HYDROLOGY

H14/D46

ONE PLAN

GEORGE CHAVEZ STORAGE

BLDG. SIXTH N.W.

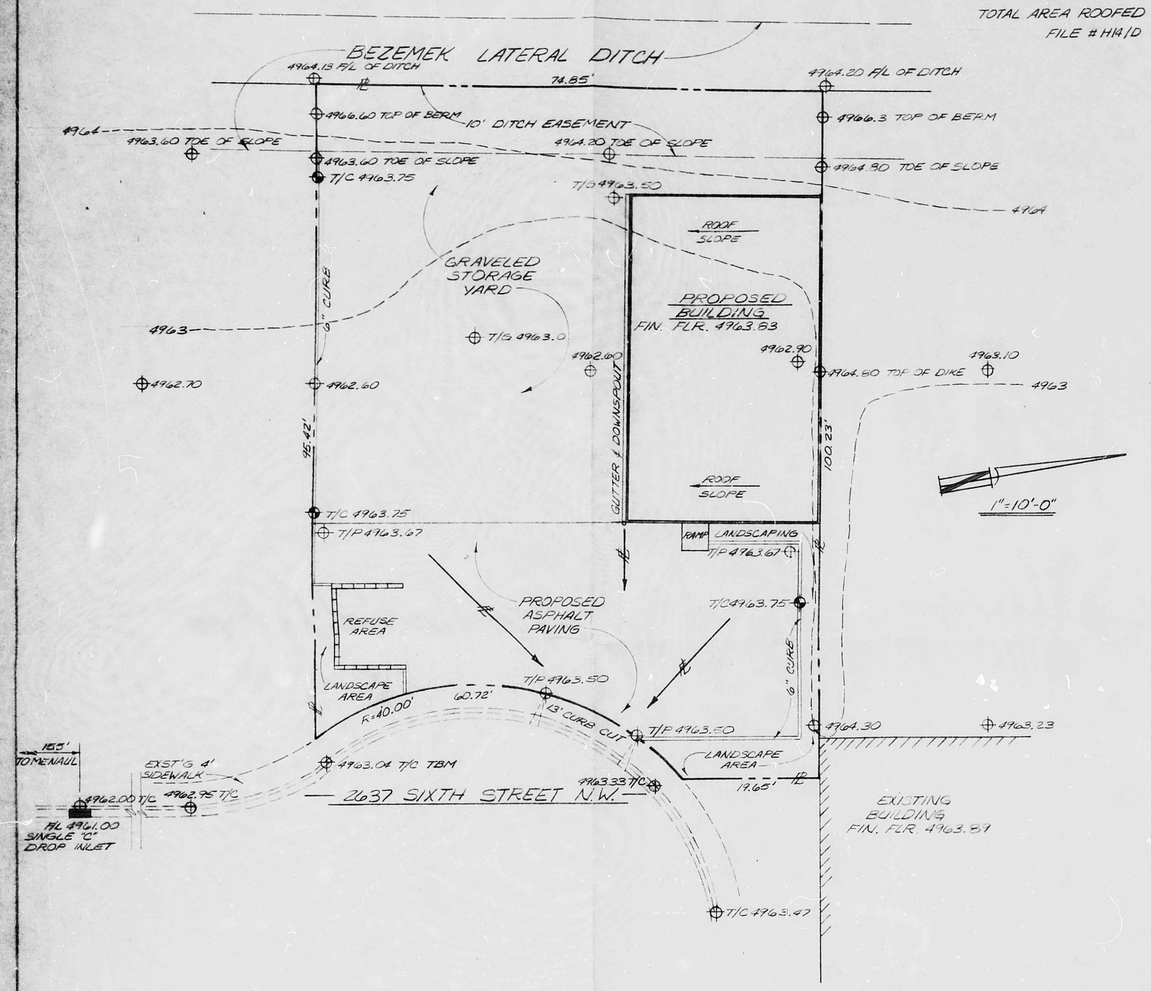
H14-D46

1 PLAN

DRAINAGE PLAN

LOT B OF THE MONK ADDITION
ALBUQUERQUE, NEW MEXICO

FLOOD MAP 22 BENCHMARK 4-H14 ELEV. 4965.49
ZONE MAP H-14 SOIL TYPE "B"
TOTAL AREA : 7125 SQ. FT. = 0.16 ACRES
TOTAL AREA ROOFED OR PAVED: 3250 SQ. FT.
FILE # H14/D APPROVED: _____



HYDROLOGY:

OFF-SITE FLOW: MINIMAL, SHEET FLOW FROM UNDEVELOPED AREA TO NORTH.

ON-SITE FLOW: UNDEVELOPED CONDITION, C = 0.40, I = 2.15 × 2.2" × 0.30 AC. = 4.73

Q_{100} = 0.40 × 4.73 × 0.16 = 0.30 CFS & VOLUME WITH CN70 = 0.30' × 7125 SQ. FT. = 214 CUBIC FEET.

DEVELOPED CONDITION,
C = 0.19 × 0.90 = 0.17
0.27 × 0.95 = 0.26
0.04 × 0.25 = 0.01
0.50 × 0.40 = 0.20
0.64

Q_{100} = 0.64 × 4.73 × 0.16 = 0.48 CFS & VOLUME WITH CN78 = 0.05' × 7125 SQ. FT. = 356 CUBIC FEET.

RECOMMENDATION:

DUE TO THE MINIMAL SIZE OF DEVELOPMENT ON AN INFILL SITE, RUNOFF IS INCREASED ONLY 0.18 CFS OR 142 CUBIC FEET TOTAL. STORM DRAIN FACILITIES ARE EXISTING 300' SOUTH WITH A CAPACITY OF ABOUT 15 CFS, MORE THAN AMPLE TO SERVE THE 3.93 ACRE AREA INVOLVED. THERE IS NO FLOOD ZONE AFFECTED BY INCREASED RUNOFF FROM THIS PROJECT. CONSIDERING THESE FACTORS, FREE DISCHARGE IS REQUESTED.

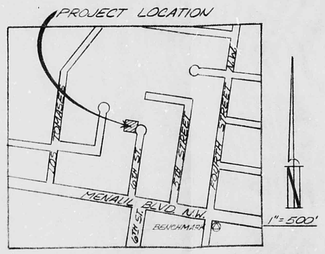
EROSION CONTROL NOTES

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.

LEGEND

PROPERTY LINE
EXISTING CONTOURS — 4965
PROPOSED CONTOURS — 4961
EXISTING SPOT ELEVATION
PROPOSED SPOT ELEVATION
FLOW DIRECTION
EXISTING CURB, GUTTER & WALKS



VICINITY MAP
ZONE MAP H-14

H14/D46

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APR 02 1986
HYDROLOGY SECTION

3-31-86

LOGAN/GROSS & ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
501 KINLEY N.E. 243-8313
ALBUQUERQUE, NEW MEXICO 87102

DRAINAGE PLAN	File # H-33
FOR: GEORGE CHAVEZ	Date 3/18/86
AT: 2637 6TH STREET NW	Drawn CLL
ALBUQUERQUE, NEW MEXICO	Sheet 1 of 1