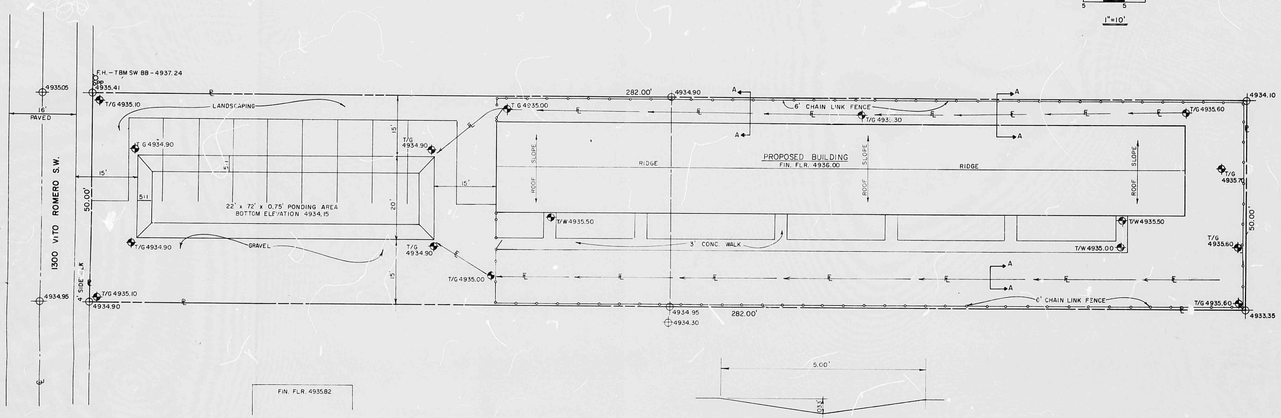
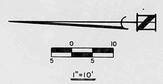
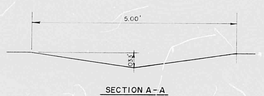
DRAINAGE PLAN

M.R.G.C.D. TRACTS 183C4A & 184A1D1, MAP No. 44
BERNALILLO COUNTY NM.
FLOOD MAP 34, BENCHMARK 9-M13, ELEV. 1933.92, SOIL TYPE "B"
TOTAL AREA = 14,100 SQ FT. = 0.324 ACRES
TOTAL AREA ROOFED OR PAVED = 8215 SQ. FT. = 58%
FILE # M-13/D2 APPROVED
SOUTH HALF SITE IN 100 YEAR FLOOD PLAIN







SECTION A-A
1" = 1'

LEGEND

PROPERTY LINE
EXISTING CONTOUR 5000
PROPOSED CONTOUR 5000
EXISTING SPOT ELEVATION
PROPOSED SPOT ELEVATION
FLOW DIRECTION

HYDROLOGY

APPROXIMATELY SOUTH HALF OF PROPERTY IN 100 YEAR FLOOD ZONE THEREFORE SET FINISHED FLOOR ELEVATION 1 FOOT HIGHER THAN SURROUNDING GROUND. PROVIDE PONDING FOR 100% WATER THAT FALLS ON SITE.

ROOF AREA = 3,696
GRAVEL & CONC. WALKS AREAS = 4,519
8,215

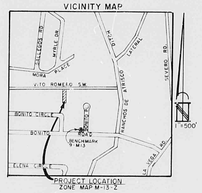
% IMPERVIOUS = 8,215 / 14,100 = 58 %
USE CN = 80 TOTAL RAINFALL = 2.2" DIRECT RUNOFF = 0.70"
V = 14,100 x 0.70/12 = 823 CU. FT.
POND = 20 x 72 x 18.5 x 0.45 x 0.75 = 842 CU. FT. - O.K.

CHANNEL DESIGN

WEST AREA TO CHANNEL IS THE LARGER AREA
ROOF = 1842 x 0.90 = 1658
WALK = 570 x 0.95 = 542
N.G. = 1330 x 0.40 = 1572
3768
C = 0.59 A = 0.046 I = 2.2 x 2.3 = 5.06 Q = 0.046 x 0.59 x 5.06 = 0.43

A = 0.33 x 1/2 x 0.83 P = 5 R = 0.83/5 = 0.17 K = 2/3 = 0.30 N = 0.03
S = 0.005 S^1/2 = 0.055 Q = 0.83 x 1.486 x 0.30 x 0.055 = 0.68 C.F.S. O.K.

VICINITY MAP



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.
4. CONTROL OF SEDIMENT-LADEN FLOOD WATERS WILL BE ACCOMPLISHED BY THE USE OF A COMPACTED EARTH BERM AT LEAST 12" HIGH. BERM SHALL BE LOCATED ALONG THE DOWNSTREAM PERIMETERS OF THE PROPERTY.

RECEIVED
SEP 3 1986
HYDROLOGY SECTION

Louis W. Grose 9/29/86
NEW MEXICO 6857 REGISTERED PROFESSIONAL ENGINEER

⚠ REVISED 9/29/86

LOGAN/GROSS & ASSOCIATES, INC. CONSULTING CIVIL ENGINEERS 825 4TH ST. N.W. ALBUQUERQUE, NEW MEXICO 87102 PHONE 243-4353	
DRAINAGE PLAN	FILE # M-118
FOR DON SANDAVOL	DATE 9-86
AT 1300 VITO ROMERO S.W.	DRAWN C.B.
BERNALILLO COUNTY, N.M.	SHEET 1 OF 1

Rec 22 DATE 6/8/93 BY BR
CITY OF ALBUQUERQUE

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Karen Armer
CITY CLERK RECORDER

OFFICIAL SEAL
NORBERTA SANCHEZ
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires JULY 8, 1996
Norberta Sanchez

PLANS/PLATS ON FILE

FILE DESC: M-13/D002

PLANS/PLATS 1

F 30 D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D F