HYDROLOGY

C17/D1ff
1 PLAN

C17/DIF

1 PLAN

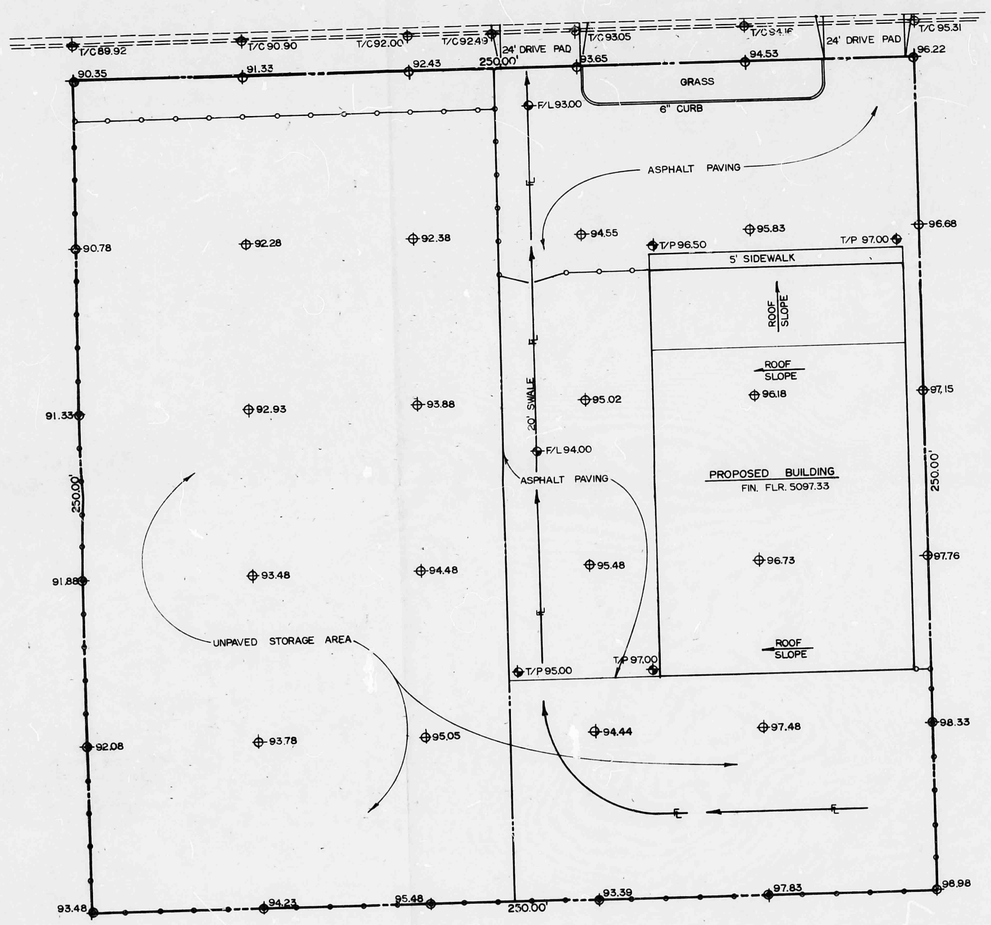
# DRAINAGE PLAN

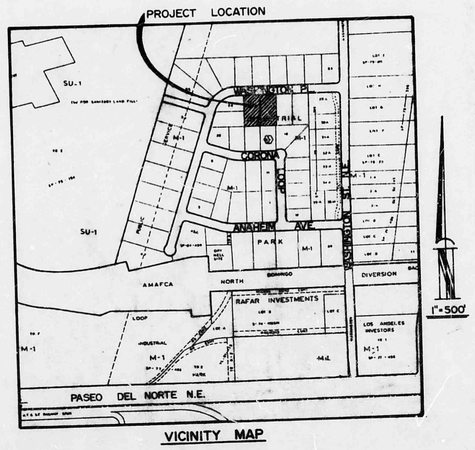
## LOTS 25 & 26, CLIFFORD INDUSTRIAL PARK, PHASE II

## ALBUQUERQUE, NEW MEXICO

ZONE MAP C-17 BENCHMARK 8-C17 ELEV. 5111.03
FLOOD MAP 09 SOIL TYPE "B"
TOTAL AREA: 62,500 SQ. FT. = 1.44 ACRES – AREA ROOFED OR PAVED 22,136 SQ. FT. = 35%
NO FLOOD HAZARD EXISTS DOWNSTREAM
REFERENCE: FILE #C17-DIA, PLANS AND REPORT BY BOHANNON-HUSTON
FILE #C17/D1 APPROVED

8355 WASHINGTON PLACE N.E.






VICINITY MAP

## HYDROLOGY

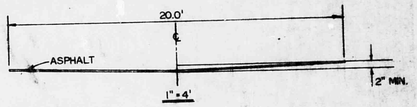
PER REFERENCE REPORT, AND EXISTING PRELIMINARY GRADING, NO OFF-SITE FLOW IS INVOLVED. PONDING ON INDIVIDUAL LOTS IS NOT REQUIRED. UNRESTRICTED FLOW IS ALLOWED THROUGH CURB CUTS. ALLOWABLE DISCHARGE FROM THESE LOTS IS 5.11 CFS.
A RUNOFF "C" FACTOR OF 0.70 IS ACCEPTABLE ACCORDING TO THE REPORT, AND RESULTS IN 50% OF THE FLOW (2.38 CFS) EXITS BY THE MIDDLE CURB CUT.

## CURB CUT HYDRAULICS

WIDTH = 24', AVERAGE DEPTH = 0.20'
A = 4.8, P = 24, R = 0.20', S = 0.50%
Q = 4.8 (1.486/0.015) X 0.342 X 0.071 = 11.5 CFS CAPACITY

## SWALE HYDRAULICS

MIDDLE SWALE WITH 20' WIDTH, ALL PAVED,
SLOPE = 0.5% – TRY 0.2' DEPTH AT ℄
A = 2.0, P = 20, R = 0.10, "n" = 0.015, S = 0.005 & Q = 2.0 (1.486/0.015) 0.215 X 0.071 = 3.0 CFS
2" DEPTH IS ADEQUATE.




EROSION CONTROL NOTES:

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

## LEGEND

PROPERTY LINE
EXISTING CONTOURS 4996
PROPOSED CONTOURS 4997
EXISTING SPOT ELEVATIONS
PROPOSED SPOT ELEVATIONS
FLOW DIRECTION
PROPOSED CHAIN LINK FENCE
EXISTING CURB & GUTTER

RECEIVED JUL 20 1987 HYDROLOGY SECTION

DUANE LEE LOGAN N.M. 2308 PROFESSIONAL ENGINEER
7-20-87

LOGAN/GROSS & ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
420 6TH ST. NE SUITE 3 243-2285
ALBUQUERQUE, NEW MEXICO 87102

| | |
|---|---|
| DRAINAGE PLAN | FILE # H-1-[illegible] |
| FOR: JIM TEMPLETON | DATE: 7/14/87 |
| AT: 8355 WASHINGTON PL. N.E. | DRAWN: C.L.L. |
| ALBUQUERQUE, N.M. | SHEET 1 OF 1 |