HYDROLOGY K12/D18 1 PLAN

K12/D18

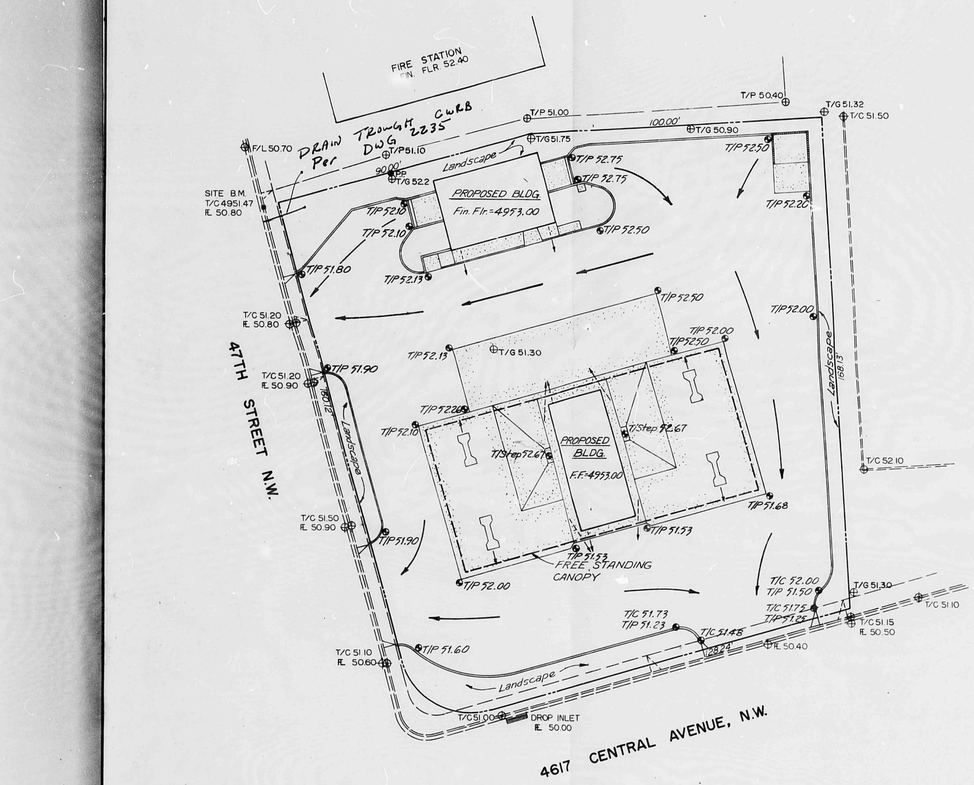
1 PLAN

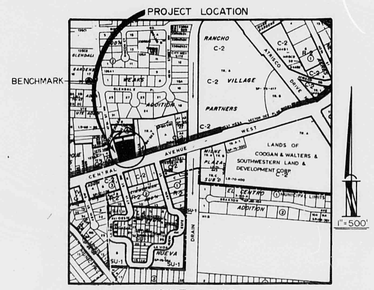
D 24 | C 20 | B 16 | A 12 | CITY OF ALBUQUERQUE | C | D

DRAINAGE PLAN

LOTS 1, 2, 3 AND 4, BLOCK 6 OF
ZIMMERMAN ADDITION AND
TRACT 127-C-2 ON M.R.G.C.D. MAP NO. 39
ALBUQUERQUE, NEW MEXICO

ZONE MAP K-12 BENCHMARK "3-K12" ELEV. 4951.42
FLOOD MAP 28 SOIL TYPE "B"





VICINITY MAP

Hydrology

EXISTING:

MOTEL & ASSOCIATED BLDGS. (Not shown for Clarity Purposes)
100 year - 6hr. rainfall = 2.2 inches I = 2.2 x 2.3 = 5.1 in/hr

Asphalt	8,279	x	0.95	=	7,865
Roof	5,832	x	0.90	=	5,249
Landscape	181	x	0.25	=	45
Natural Ground	16,493	x	0.45	=	7,422
	30,785				20,581

C = 20,581 / 30,785 = 0.67
Q = 0.67 x 5.1 x 0.71 = 2.4 CFS
CN = 86 Direct Runoff = 1.1 in
V = 30,785 / 12 x 1.1 = 2,822 CF

DEVELOPED:

Motel, Associated Building, Pavement & Landscaping Removed.

Asphalt	20,123	x	0.95	=	19,117
Roof	6,175	x	0.90	=	5,558
Landscape	4,487	x	0.25	=	1,122
	30,785				25,797

C = 25,797 / 30,785 = 0.84
Q = 0.87 x 5.1 x 0.71 = 3.2 CFS
CN = 92 Direct Runoff = 1.35 in
V = 30,785 / 12 x 1.35 = 3,463 CF

CONCLUSIONS:

1. The proposed development will increase the peak flow Q by 0.80 CFS and the Volume by 641 CF.
2. All the water will enter the inlet on Central Avenue. The increase in peak flow is negligible. The inlet empties into a 48" storm sewer 928 feet from the outlet to the Isleta Drain.

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 CONSTRUCTED ALONG THE DOWNSTREAM PERIMETERS OF THE PROPERTY.

LEGEND

PROPERTY LINE
EXISTING CONTOURS — 4950
PROPOSED CONTOURS — 4951
EXISTING SPOT ELEVATIONS
PROPOSED SPOT ELEVATIONS
EXISTING CURBS
FLOW DIRECTION
ROOF DRAINS

RECEIVED DEC 16 1987 HYDROLOGY SECTION

12-16-87

LOGAN/GROSS & ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
925 8TH ST. N.W. SUITE 3 243-6353
ALBUQUERQUE, NEW MEXICO 87102

DRAINAGE PLAN	FILE # 320
FOR ROBERTS OIL CO.	DATE 11/17/87
AT 4617 CENTRAL AVE., N.W.	DRAWN CLL/LCG
ALBUQUERQUE, N.M.	SHEET 1 OF 1

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