HYDROLOGY D17/D29 1 PLAN

D17/D29

1 PLAN

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 24, 1983

Ray Harrison & Associates
1517 Girard Blvd. NE
Albuquerque, New Mexico 87106

Ref: Warehouse for Barnett Iron Works
(D17-D29)

Dear Mr. Harrison:

The drainage and grading plan for the aforementioned site is hereby approved with the following understanding.

1. The two swales indicated on the plan shall direct all flows to the street via the drive pads. No cross drainage shall be allowed.

2. All drainage previously running through this site in quantity and location shall be intercepted, accepted and run through the two proposed swales.

3. Approval of this plan is based on the existing conditions shown on this plan.

The Engineering Department will approve the building permit with inclusion of this plan in the building set.

Sincerely,

Andre Houle, PE
Civil Engineer/Hydrology

AH/el

cc: Wayne Gribble
P. O. Box 3706
Albuquerque, N.M. 87190

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Lt 36A 4210
3AB
Lt 35A 4300

DRAINAGE REPORT INFORMATION SHEET

PROJECT TITLE WAREHOUSE FOR BARNETT IRON WORKS

ZONE ATLAS PAGE NO. D 17-29 CITY ADDRESS 4212 Hawkins NE

LEGAL ADDRESS Lot 35B Interstate Industrial Tract Unit IV

ENGINEERING FIRM RAY HARRISON & ASSOCIATES CONTACT Ray Harrison

ADDRESS 1517 A Girard NE PHONE 265 4276

OWNER Barnett Iron Works CONTACT Jack Barnett

ADDRESS 4210 Hawkins St. NE PHONE 345 1878

ARCHITECT/SURVEYOR Same CONTACT

ADDRESS PHONE

DATE SUBMITTED 1/7/83

BY Ray Harrison

RECEIVED
JAN 7 1983
ENGINEERING

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 87106
(505) 265-4276

DRAINAGE PLAN

Warehouse for

BARNETT IRON WORKS

4212 Hawkins St. NE

January 7, 1983

DESCRIPTION AND CRITERIA: This project consists of the construction of a warehouse and paved storage yard on a 1.033 Acre lot in the Interstate Industrial Tract Subdivision. The Herkenhoff Drainage Plan allows all drainage to flow to the street with no ponding. 10-8-80

OFF-SITE FLOWS: The ortho-topo map of this area are 1973 and do not show this development. This area is not included in the master drainage study. The subdivision drainage study requires that all drainage on developed lots flow to the street. The undeveloped lot to the south slopes toward this lot so until development there could be a small sheet flow. The flow area would be less than 0.25 acre. Soil type "B", 0% paved, C = .4

Off-site flow Q = .4 X .25 X 5.06 = .51 CFS
The drainage system of the new development will handle this flow with no problem.

ON-SITE FLOW:
Undeveloped flow Soil embudo Hydro Group B
impervious 0 % C = .34 T_c = 10 min I = 2.2 X 2.3 = 5.06

Q = CIA = .34 X 5.06 X 1.033 = 1.77 CFS.

Developed flow impervious = 95% C = .9

Q = .9 X 5.06 X 1.033 = 4.7 CFS

The drainage will flow in two swales to the driveways and into the street.

It has been stated that the Herkenhoff drainage plan is allowable and down stream conditions are adequate.

Ray L. Harrison
Ray L. Harrison

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