HYDROLOGY H16/D36B 1 PLAN

H16/D36B

1 PLAN

Address 2601 Vassar N.E. Engr/Arch [illegible]

Plans Approved 11-4-85 Cond.

Comments: # H 16-37A Fdn & Bld Plans

Inspection Requested Contractor

Appr. 3/24/83 Disappr. 30 Day Temp.

Comments:

Reinspection and/or comments:

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

H16- D33

October 21, 1982

Mr. Ray Harrison
Ray Harrison & Associates
1517-A Girard Blvd. N.E.
Albuquerque, NM 87106

RE: WAREHOUSE-PAINT STORE (2425 PHOENIX AVE. N.E.) DRAINAGE PLAN

Dear Ray:

I have made an initial review of the referenced report and forward the following comments:

a. Please provide spot elevations to the west of the project boundary.

b. Approval copies of Special Order No. 19 should be attached to the construction plans before sign-off is granted.

Ray, I will advise Fred to sign-off for Hydrology once the above items are taken care of.

If you have any questions, please call.

Very truly yours,

Brian G. Burnett
Civil Engineer/Hydrology

BGB/tsl

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

H16 - D36B

October 25, 1982

Mr. Ray Harrison
Ray Harrison & Associates
1517 Girard Blvd. N.E.
Albuquerque, N.M. 87107

RE: WAREHOUSE - PAINT STORE DRAINAGE PLAN

Dear Ray:

Based on your recent submittal the referenced plan is hereby approved. Please see that the revised plan (dated 10/22/82) is placed in the City construction sets along with approved copies of Special Order No. 19.

Very truly yours,

Brian G. Burnett
Civil Engineer/Hydrology

BGB/tsl

..AY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

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

October 4, 1982

DRAINAGE PLAN

WAREHOUSE
PAINT STORE

2425 Phoenix Ave. NE

RECEIVED
OCT 04 1982
ENGINEERING

Planning History-Replated August 5, 1982 no zonning change, Conceptual Drainage Plan submitted.

Survey, Drainage Report and Grading Plan by Ray L. Harrison P. E. &L. S. 2198

Flood Hazard-Site delineated on Master Drainage Study Map attached, not in flood hazard area.

Erosing Control Plan-Site is Hydrological Grou A with little runoff and no erosion control problems.

OFF-SITE CONDITIONS:
The tract to the north has a drainage plan that diverts all drainage away from this tract and the tract to the west has a slope down away from this tract, There are no off-site flows onto this tract.

ON-SITE CONDITIONS:

Flow Volumes and Rates-
Undeveloped A = 17,600 ft^2 = .404 Ac.
Impervious 0% Hydro Group A C = .18
Q_{100} = .18 X 2,2 X .404 = .16 CFS
Developed 90% impervious C = .76
Q_{100} = .76 X 2.2 X .404 = .67 CFS

Proposed Treatment-Ponding with a positive drain to an existiong catch basin.

Hydrograph $T_c = T_p$ = 10 min.
Q_p .76 X 2.2 X 2.3 X ,404 = 1.88 CFS
V = .76 X 2.2/12 X 17,600 = 2450 ft^3
T = $2v/Q_p$ = 2 X 2450/1.88 = 2606 sec = 43.4 min.

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

RECEIVED

OCT 0 4 1982

ENGINEERING

DRAINAGE REPORT INFORMATION SHEET

PROJECT TITLE WAREHOUSE-PAINT STORE

ZONE ATLAS PAGE NO. H 16 ~~[illegible]~~ 37 CITY ADDRESS 2425 Phoenix Ave. NE

LEGAL ADDRESS Lot 4 Brunacinin Indrustrial Park Unit 6

ENGINEERING FIRM Ray Harrison & Associates CONTACT Ray Harrison

ADDRESS 1517 A Girard NE 87106 PHONE 265 4276

OWNER Brunacini Brothers CONTACT George Brunacini

ADDRESS 2405 Cabde;aria NE PHONE 884 0345

ARCHITECT/SURVEYOR SAME CONTACT

ADDRESS PHONE

DATE SUBMITTED 10/5/82

BY

2425 Phoenix Ave. NE

The positive discharge 6" pipe flow will be controlled by entrance losses equivalent to a short tube.

$Q = Ca\ (2gH)^{\frac{1}{2}}$ $C = .82$ K & B $a = 0.2\ ft^2$ $H = 1.0\ ft^2$

$Q = .82 \times 0.2 \times (2 \times 32.2 \times 1.0)^{\frac{1}{2}} = 1.3$ CFS

$S_1 = 1.88/10 = .188$ $S_2 = 1.88/33.4 = .056$

$X_1 = 1.3/.188 = 6.9$ $X_2 = 1.3/.056 = 23.2$

$V_1 = 43.4 - (6.9 + 23.2) \times (1.88 - 1.3) \times 60$

$V_1 = 462\ ft^3$

Ponding available Grading plan Section 1/1 1890 ft^3

Overflow 30' X 0.2'
Equivalent to a weir Fig. 5-24 K & B

$Q = CLH^{3/2}$ $C = 3.09$ Talbe 5-13 K & B

$L = 30'$ $H = 0.2'$

$Q = 8.3$ CFS $Q_{100} = .67$ CFS

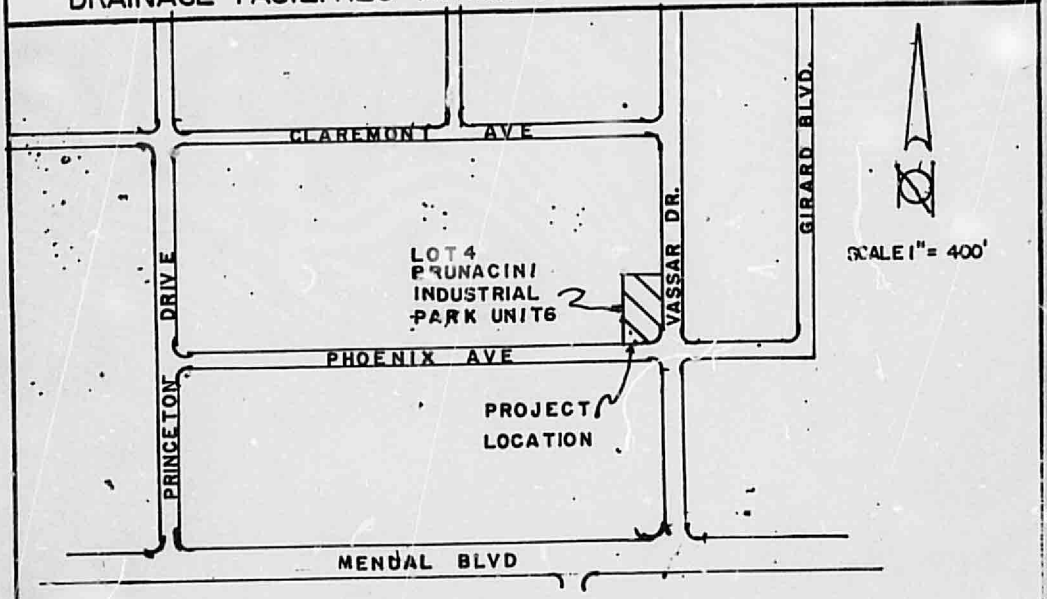
Downstream-Conditions-A new storm sewer system has been installed on phoenix that has adequate capicity.

Ray L. Harrison

H-16 MASTER DRAINAGE STUDY

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



LOCATION PLAN

Owners
Jim, Richard, And George Brunacini
2405 Candeliria NE
Albuquerque, NM 87107

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR NO. 2193 NEW MEXICO RAY L. HARRISON

Ray Harrison & Associates
1517 A Girard NE
Albuquerque, NM 87106

NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with "Contract Documents for City-Wide Utilities and Cash Paving No. 31 "
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to ARTERIAL street use.

2425 PHOENIX AVE NE B-57

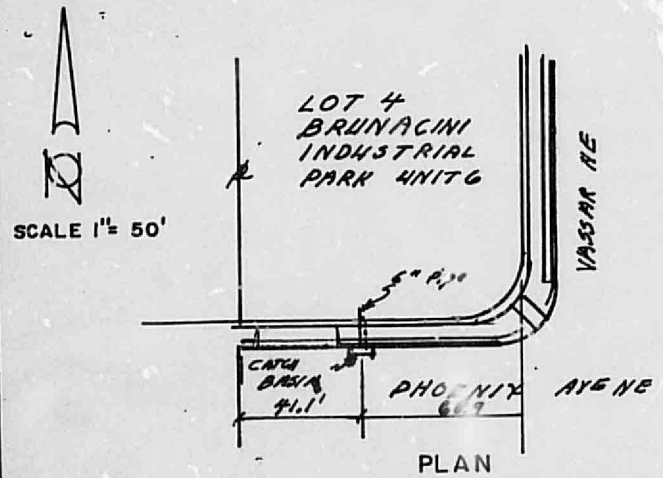
APPROVALS	NAME	DATE
A.C.E./DESIGN	[illegible]	[illegible]
INSPECTOR	[illegible]	2-18-83
C.E./FIELD	[illegible]	2-21-83

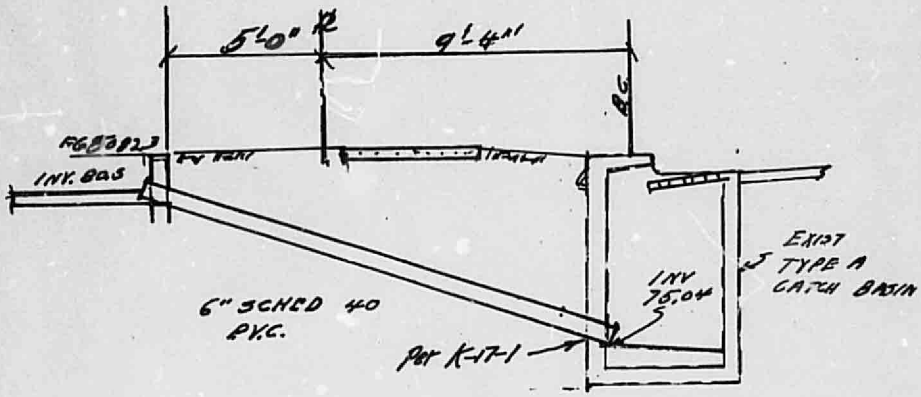
TITLE: BRUNACINI INDUSTRIAL PARK UNIT 6, LOT 4
DRAIN LINE CONNECTION TO EXISTING CATCH BASIN

PERMIT NO.
SHEET 1 OF 2
MAP NO. H16

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY





SECTION
SCALE 1/4" = 1'-0"

24'25 PHOENIX AVE NE

APPROVALS	NAME	DATE
A.C.E./DESIGN	J. Kulesh	7 Oct 82
INSPECTOR	R. Salas	2-18-83
A.C.E./FIELD		

TITLE: BRUNACINI INDUSTRIAL PARK UNIT 6, LOT 4 DRAIN LINE CONNECTION TO EXISTING CATCH BASIN

PERMIT NO.

SHEET 2 OF 2

MAP NO. H 16