HYDROLOGY A14/D1 Corrales Center

A14/D1

CORRALES CENTER

1 PLAN

CORRALES CENTER
DRAINAGE REPORT

PREPARED FOR:

Mr. John Black
10001 Coors Road NW
Albuquerque, New Mexico 87114

FEBRUARY 1973

BOHANNAN WESTMAN HUSTON

DRAINAGE REPORT

CORRALES CENTER
IN
BERNALILLO COUNTY, NEW MEXICO

FOR

Mr. John Black
10001 Coors Road NW
Albuquerque, New Mexico
87114

FEBRUARY 1973

BOHANNAN WESTMAN HUSTON & ASSOC.,INC.
4125 Carlisle Blvd NE
Albuquerque, New Mexico 87107

Raymond R. Gibson, PE & LS
Chief Engineer

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
NO. 3789
NEW MEXICO
RAYMOND R. GIBSON

BOHANNAN WESTMAN HUSTON & ASSOCIATES INC.
ENGINEERS & PHOTOGRAMMETRISTS
125 ISLE
ALBUQUERQUE, NEW MEXICO 87107
PHONE 505 345-2681

16 February 1973

Mr. John Black
10001 Coors Road NW
Albuquerque, New Mexico 87114

Dear Mr. Black:

We are transmitting two (2) copies of our Drainage Report on The Corrales Center Development to you. We are also making a copy of this report available to the Albuquerque Metropolitan Flood Control Authority and to the City of Albuquerque.

Very truly yours,

Raymond R. Gibson

Raymond R. Gibson, PE & LS
Chief Engineer

RRG/teg

cc & report:

Mr. Robert Sheppard
Flatow Bryan & Moore

DRAINAGE REPORT

CORRALES CENTER
IN
BERNALILLO COUNTY, NEW MEXICO

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PLATE 1	Location Map
PLATE 2	Drainage Layout

DRAINAGE REPORT

CORRALES CENTER

LOCATION AND DESCRIPTION

Corrales Center is located on the northwest corner of the intersection of Corrales Road and Highway 528. It is bounded on the south by Highway 528, on the north by undeveloped land, on the east by the Corrales Road, and on the west by the Corrales Main Canal. The tract in question is under cultivation at the present time producing high infiltration.

Drainage off the property and surrounding area at the present time is shown on Plate 2.

As shown on Plate 1, no water enters the property due to the presence of the Corrales Main Canal. Therefore, no calculations for outside drainage will be shown except for the information given on Plate 1.

METHOD

Due to the high infiltration at the present time and the large amount of paving to be constructed runoff after development will be ponded in an area set aside to the north of the property as shown on Plate 2.

The amount of water produced on the property during a 100 year, 6 hour storm was calculated and compared to the capacity of the proposed pond to be constructed.

CALCULATIONS

Total Area of Report	19.45 Acres
95% Paving or Roofs	18.43 Acres
5% Ponded in planters	

AMOUNT OF WATER RUNOFF

2.3 In. Precipitation for 100 year- 6 hour storm from chart, Drainage Resolution, 1972-2

$$\frac{2.3 \text{ In.}}{12 \text{ In./Ft.}} \times 18.43 \text{ Acres} = 3.54 \text{ Acre-Ft.}$$

CAPACITY OF POND

2.05 Acres - Average Surface Area

2.05 Acres X 1.75 Ft. = 3.60 Acre -Ft.

CONCLUSIONS

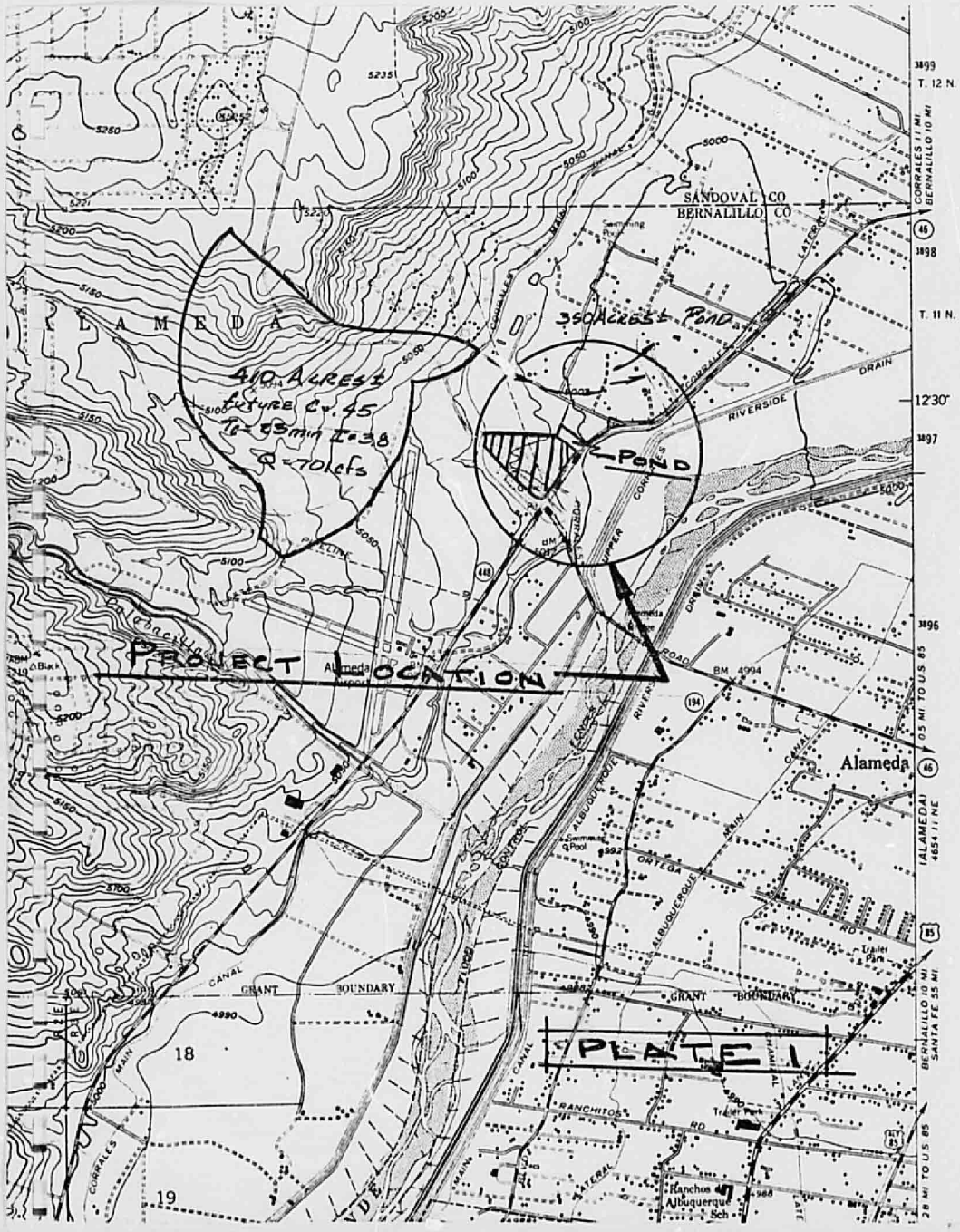
Since most of the area in question is to be paved, it was felt that ponding the water was the solution to contain the water and keep it from damaging adjacent property. Due to the fact all runoff water will be ponded no quantities for natural state and developed state were calculated. Since the pond will hold the expected runoff with .75 feet of free board it is recommended that this report be approved.

This ponding of the water requires land which will have considerable value in the future. It is recommended that a permanent drainage system for the remainder of the tracts and for any drainage entering the tracts from the west along Cabezon Street be made a part of future tract development plans. At this time the water ponded under the present Corrales Center Development may be carried to a permanent channel leading across Corrales Road to the Rio Grande.

BIBLIOGRAPHY

Albuquerque Metropolitan Arroyo Flood
Control Authority
Albuquerque, New Mexico

- Drainage Resolution 1972-2
  100 year- 6 hour Precipitation
  Chart


410 Acres±
Future C=.45
Tc=53min I=3.8
Q=710cfs
350 Acres± Pond
Pond
PROJECT LOCATION
PLATE 1
SANDOVAL CO
BERNALILLO CO
T. 12 N.
T. 11 N.
Alameda
GRANT BOUNDARY
CORRALES
RIVERSIDE
DRAIN
ALBUQUERQUE
ORTEGA
RANCHITOS
CANAL
18
19

Public Works/Hydrology

A14/D1

0000 0000 0808

A14/D1

25×10 32×10

0000 0000 080A

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 19, 1994

Bill 2-15-95
887-4344

Kim Kemper
Kemper-Vaughan Consulting Eng.
3700 Coors Rd. SW
Albuquerque, NM 87120

RE: DRAINAGE PLAN FOR SOUPER SALAD (A14-D1) ENGINEER'S STAMP DATED 10/4/94.

Dear Mr. Kemper:

Based on the information provided on your October 4, 1994 submittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction plans prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2667.

Sincerely,

Bernie J. Montoya

Bernie J. Montoya, CE
Engineering Associate

BJM/dl/WPHYD/8904

c: Andrew Garcia
File

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

25×10 32×10

0000 0000 0810

DRAINAGE INFORMATION SHEET

PROJECT TITLE: SOUPER SALAD ZONE ATLAS/DRNG. FILE #: A-14./101

LEGAL DESCRIPTION: TRACT "A-1-1-A" BLACK RANCH.

CITY ADDRESS: 10701 COORS RD.

ENGINEERING FIRM: KEMPER-VAUGHAN CONSULTING ENGR CONTACT: KIM R. KEMPER

ADDRESS: 3700 COORS RD NW 87120 PHONE: 831-4520

OWNER: SOUPER SALAD CONTACT:

ADDRESS: PHONE:

ARCHITECT: JLS ARCHITECTS CONTACT: JOE SLAGLE

ADDRESS: 414 SECOND ST. SW PHONE: 246-0870

SURVEYOR: RIO GRANDE ENGINEERING & SURVEY. CONTACT: REX VOGLER

ADDRESS: 3700 COORS RD NW 87120 PHONE: 831-4520

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

___ YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

X GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: 10/4/94.

BY: [signature]

25×10 32×10

0000 0000 0811

PLANS/PLATS ON FILE

FILE DESC: A14/D1

PLANS/PLATS 1

25×10 32×10

0000 0000 0812