HYDROLOGY K11/D34 1 PLAN

K11/D34

1 Plan

Rue's Drafting Service
Architectural Consultant
143 Coors Boulevard S.W.
Albuquerque, New Mexico 87105
Telephone (505) 836-1382 821-5421

~~2870-85~~ DRB-85-357

6-21-85

RECEIVED
JUN 21 1985
TRAFFIC ENGINEERING DIVISION
City of Albuquerque

Municipal Development Department
City of Albuquerque

Dear Sirs,

Enclosed please find the letter containing infrastructure listing for case number: DRB 85-359. Legal description:

Lot 27 Glendale Gardens Addition
Vicinity map number K-11-Z
Zoned P-1
Proposed: 4 lots; A,B,C,&D; located off of Rincon Rd. NW

PUBLIC INFRASTRUCTURE

A. Water
1. Water metered service line installation DWG. W-10, 4 each.
2. Water wood meter box plan and section DWG. W-17, 2 each.
3. Water meter box cover lid DWG. W-18, 4 each.

B. Sewer
Sewer service line to property line (sewer tap) DWG. S-9, 4 each.

C. Concrete
1. Sidewalk to make transition from Rincon Rd. NW to new Access Road DWG. P-13.
2. Valley gutter - Rincon Rd. and Access Rd. DWG. P-9

PRIVATE INFRASTRUCTURE

A. Water
From water metered box located on Rincon Rd. NW to 4' inside of the property line; Lots A,B,C,&D..

B. Sewer
From property line on Rincon Rd. NW to 4' inside of the property line; Lots A,B,C,&D.

C. Private Access Road
2" Asphalt paving, curb & gutter ~~(standard)~~ on one side only, mountable curb ~~estate type~~ on Private Access anterior to lots A,B,C,&D. Concrete sidewalk to extend from Rincon Rd. NW to Private Access Road anterior to lots A&B.

Sincerely,

Frank Rue
Frank Rue
Developer

Approved by DRB, as amended, on 6/25/85.

DRB-85-359

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

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

June 18, 1985

Mark Goodwin
5358 Thomas Place, NE
Albuquerque, New Mexico 87108

RE: DRAINAGE PLAN FOR RINCON PLACE SUBDIVISION
(K-11/D34) RECEIVED JUNE 17, 1985

Dear Mr. Goodwin:

The referenced plan, revision date June 17, 1985, is approved for building permit sign-off.

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

If you have any questions or comments, please call me at 766-7644.

Cordially,

Billy J. Goolsby

Billy J. Goolsby, P.E.
C.E./Design Hydrology Section

BJG/bsj

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

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

June 14, 1985

Mr. Mark Goodwin
5358 Thomas Place NE
Albuquerque, NM 87108

REF: DRAINAGE PLAN FOR RINCON PLACE SUBDIVISION (K11-D54) RECEIVED MAY 6, 1985

Dear Mr. Goodwin:

The above referenced plan dated May 4, 1985 is approved for Preliminary Plat approval.

If you should have any questions, please feel free to call me at 766-7644.

Sincerely,

Carlos A. Montoya

Carlos A. Montoya, PE
City/County Flood Plain Admin.

CAM:mrk

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Rincon Place Subdivision ZONE ATLAS/DRNG. FILE #: K-11/D34

LEGAL DESCRIPTION: Lot 27 Glendale Gardens Addition

CITY ADDRESS: 5818 Rincon St. N.W.

ENGINEERING FIRM: Mark Goodwin P.E. CONTACT: Mark Goodwin, P.E.

ADDRESS: 5358 Thomas Pl. N.E. PHONE: 293-4834

OWNER: Joe Rue CONTACT: Joe Rue

ADDRESS: 143 Coors Rd. S.W. PHONE: 836-1388

ARCHITECT: Rue's Drafting Service CONTACT: Frank Rue

ADDRESS: 143 Coors Rd. S.W. PHONE: 836-1388

SURVEYOR: Alpha Surveying Group, Inc. CONTACT: Gary E. Gritsko, L.S.

ADDRESS: 623 Amherst N.E. PHONE: 265-5538

CONTRACTOR: N/A CONTACT: ____

ADDRESS: ____ PHONE: ____

RECEIVED MAY 06 1985 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

X 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

X 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: 5/1/85

BY: Mark Goodwin

Mark Goodwin, P.E.

Developed Runoff Summary

It is proposed to discharge the four developed lots to Rincon for conveyance to 2- Type "C" inlets located 450' down Rincon to the East.

"As-Built" drawings obtained from the City indicate that the 2 inlets in Rincon are tied to a 12" RCP storm sewer with a slope = 0.229%.

Capacity of 12" RCP where S = 0.229% = 2 CFS

It is obvious that this storm sewer was not constructed to carry the 100 yr. - 6 hr. storm but to "meter" out the runoff. Therefore if the street will confine the 100 yr. storm we feel that direct discharge to the street is in order.

RECEIVED
MAY 06 1985
HYDROLOGY SECTION

Determine Capacity of Rincon:

32' FF 2% crown
S = 0.5% 8" curb.

From Plate 22.3 D-1 1/2 Q = 4.1 CFS → 8.2 CFS

Determine Peak Rate of Runoff to Rincon:

Will include proposed development = 0.63 Ac.
TOTAL DRAINAGE Area = 153,000 ft² = 3.51 Ac.

Soils Type = Af = B soil

Land use = Residential 1/3 Ac. lots % impervious = 30%

From Plate 22.2 C-1 → C = 0.47

determine T_c:

L = 850'

$$S = \frac{4954.0 - 4951.30}{850} = 0.3\%$$

$$T_c = 0.0078 \frac{(850)^{.77}}{(.003)^{.385}} = 13 \text{ min.}$$

determine Rainfall Intensity :

$P(100\text{ yr.} - 6\text{ Hr.}) = 2.2$ in.

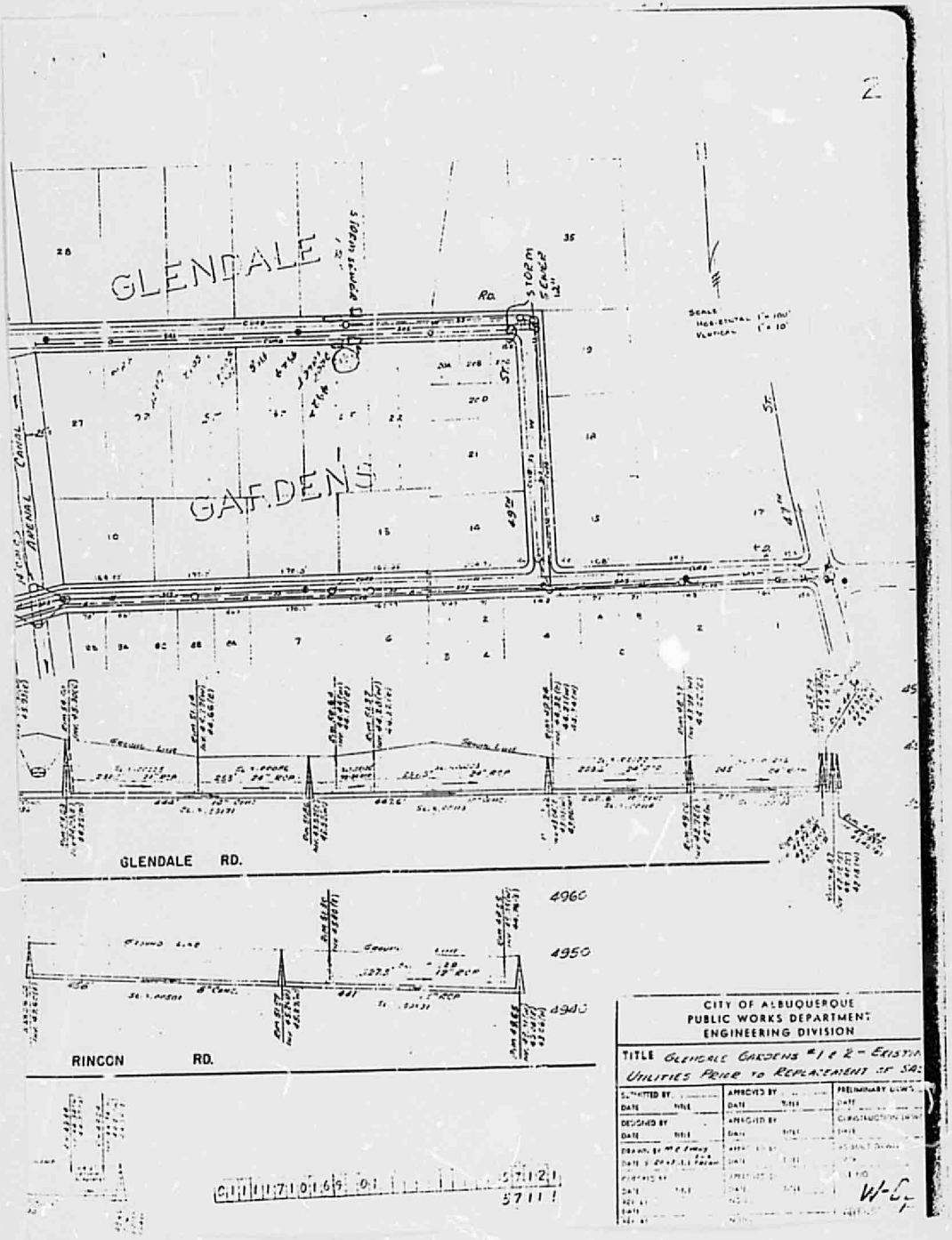
From Plate 22.2 D-2 $\Longrightarrow I = (2.2)(6.34)(13)^{-.51} = 4.07 \frac{in}{hr.}$

determine Peak Q :

$Q = CIA = 0.47(4.07)(3.51) = 6.7 \text{ CFS} < 8.2 \text{ CFS}$

The above calculations indicate that while the storm sewer in Rincon cannot pass the 100 yr - 6 Hr peak, the street will confine this storm. Therefore - direct discharge should be allowed.

2


GLENDALE
GARDENS
Rd.
GLENDALE RD.
RINCON RD.
4960
4950
4940
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
TITLE Glendale Gardens #1 & 2 - Existing Utilities Prior to Replacement of Sa
SUBMITTED BY
DATE TITLE
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REV. BY
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W-C

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

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

March 29, 1985

Mr. Mark Goodwin
5358 Thomas Place NE
Albuquerque, NM 87108

REF: DRAINAGE PLAN FOR RINCON PLACE SUBDIVISION (K11-D34) RECEIVED MAY 6, 1985

Dear Mr. Goodwin:

I have reviewed the referenced plan and forward the following comments:

1. I believe that the type of submittal is a drainage plan and the approval sought is preliminary plat approval.

2. Discharge from a site is determined by downstream capacity. The discharge from the site appears to feed a flood zone. You have shown that the street can handle 8.2 cfs but that the storm drain capacity is 2 cfs. The conclusion determines that the street will confine the 100 year storm.

It is unclear if you are determining volume or rate. Please expand on your downstream capacity calculations.

If you should have any questions or comments, please feel free to call me at 766-7644.

Sincerely,

Carlos A. Montoya
City/County Flood Plain Admin.

CAM:mrk

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

PRE-DESIGN CONFERENCE RECAP

HYDROLOGY SECTION PROJECT NO.: K-11 DATE: 4/19/85

PLANNING DIVISION NOS. EPC: _____ DRB: _____

SUBJECT: Rincon Place Subdivision

LEGAL DESCRIP.: Tracts 27 A & B Glendale Gardens

APPROVAL REQUESTED

✓ PRELIMINARY PLAT ____ FINAL PLAT

____ SITE DEVELOPMENT PLAN ____ BUILDING PERMIT

____ ROUGH GRADING

	WHO:	REPRESENTING:
ATTENDANCE:	Frank Rue	Rue's Drafting Service
	Billy Goolsby	City

X Approved Conceptual Drainage Plan/~~Report~~ required for Preliminary Plat and/or ~~Site Development Plan~~ sign-off.

X Approved Drainage Plan/~~Report~~ required for Final Plat and/or ~~Building Permit~~ sign-off.

X Subdivision Improvements Agreement or Financial Security required.

FINDINGS: ① Preliminary Plat with listing of required infrastructure improvements are to be approved at DRB prior to Work Order process. ② Site is not located in a "A" zone but is in a "B" zone. ③ Disch. is to be determined by analysis of downstream capacity.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED:	Billy G. Goolsby	SIGNED:	
TITLE:	CE/Design Hydrology	TITLE:	
DATE:	4/19/85	DATE:	

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL