



# **City of Albuquerque**

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 27, 2003

Gregory J. Krenik, PE  
D. Mark Goodwin & Associates  
PO Box 90606  
Albuquerque, NM 87119

*Chavez (made  
on 4/26/03 permit  
# 2073661*

**RE: Carl's Jr. Drainage Report (L-22/D57)  
Engineer's Stamp Dated March 21, 2003**

Dear Mr. Krenik:

The above referenced grading and drainage plan received March 21, 2003 is approved for Building Permit and SO #19. Upon completion of the project please submit a certification for the project per the DPM and approval from Matt Cline for the SO #19 for Certificate of Occupancy release by Hydrology.

If you have any questions please call me at 924-3982

Sincerely,

Carlos A. Montoya, PE  
City Floodplain Administrator

C: file

Matt Cline, Arroyo Maintenance  
Pam Lujan, Excavation Permits



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 27, 2003

Gregory J. Krenik, PE  
D. Mark Goodwin & Associates  
PO Box 90606  
Albuquerque, NM 87119

**RE: Carl's Jr. Drainage Report (~~L-22/D57~~)  
Engineer's Stamp Dated March 21, 2003**

Dear Mr. Krenik:

The above referenced grading and drainage plan received March 21, 2003 is approved for Building Permit and SO #19. Upon completion of the project please submit a certification for the project per the DPM and approval from Matt Cline for the SO #19 for Certificate of Occupancy release by Hydrology.

If you have any questions please call me at 924-3982

Sincerely,

Carlos A. Montoya, PE  
City Floodplain Administrator

C: file  
Matt Cline, Arroyo Maintenance  
Pam Lujan, Excavation Permits



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 4, 2003

Greg Krenik  
Mark Goodwin & Associates, PA  
P.O. Box 90606  
Albuquerque New Mexico 87119

**RE: Engineer's Certification for Carl's Jr. Four Hills, 13100 Central SE (L22-D57)**  
**Engineer's Date March 21, 2003**  
**Certification Date October 10, 2003**

Dear Krenik:

The above referenced Engineer's Certification is approved for Permanent Certificate of Occupancy release for Hydrology.

If you have any questions please call me at 924-3982.

Sincerely,

Carlos A. Montoya  
City Floodplain Administrator

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV.1/11/2002)

PROJECT TITLE: <u>Carl's Jr - Four Hills</u>		ZONE MAP/DRB.FILE#: <u>L-22 / 0057</u>
DRB#: _____	EPC# _____	WORK ORDER#: _____
LEGAL: <u>Western Portion of Tract A Four Hills Village Shopping Center and Apartment Complex</u>		
CITY ADDRESS: <u>13100 Central SE</u>		
ENGINEERING FIRM: <u>Mark Goodwin &amp; Associates, PA</u>		CONTACT: <u>Gregory J. Krenik, PE</u>
ADDRESS: <u>P.O. Box 90606 Albuquerque NM 87119</u>		PHONE: <u>828-2200</u>
CITY, STATE: <u>Albuquerque NM</u>		ZIP CODE: <u>87119</u>
OWNER: <u>Carl's Jr. / co of Schlegel Lewis Architects</u>		CONTACT: <u>Jim Lewis</u>
ADDRESS: <u>1620 Central Avenue SE</u>		PHONE: <u>247-1529</u>
CITY, STATE: <u>Albuquerque, NM</u>		ZIP CODE: <u>87106</u>
ARCHITECT: <u>SCHLEGEL LEWIS ARCHITECTS</u>		CONTACT: <u>Jim Lewis</u>
ADDRESS: <u>1620 Central Avenue SE</u>		PHONE: <u>247-1529</u>
CITY, STATE: <u>Albuquerque, NM 87106</u>		ZIP CODE: <u>87106</u>
SURVEYOR: <u>N/A</u>		CONTACT: _____
ADDRESS: _____		PHONE: _____
CITY, STATE: _____		ZIP CODE: _____
CONTRACTOR: <u>N/A</u>		CONTACT: _____
ADDRESS: _____		PHONE: _____
CITY, STATE: _____		ZIP CODE: _____

TYPE OF SUBMITTAL: SO#19 pulled 9/26/03

## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERTIFICATION (TCL)
- ☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

- ☐ SIA / FINANCIAL GUARANTY RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATE OF OCCUPANCY (PERM)
- ☒ CERTIFICATE OF OCCUPANCY (TEMP)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY) \_\_\_\_\_

Approved  
 Temp C.O.  
 10-10-03  
 (CAM)

## WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: 10-10-03

BY: Gregory J. Krenik, PE

Requests for approvals of Site Development Plans and/or Subdivision Plans shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5).
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5).
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

***Planning Department  
Transportation Development Services Section***

October 23, 2003

James C. Lewis, Registered Architect  
1620 Central SE  
Albuquerque, NM 87106

Re: Certification Submittal for Final Building Certificate of Occupancy for  
Carl's Jr., [L-22 / D57]  
13100 Central NE  
Architect's Stamp Dated 10/22/03

Dear Mr. Lewis:

The TCL / Letter of Certification submitted on October 22, 2003 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

Nilo E. Salgado-Fernandez, P.E.  
Senior Traffic Engineer  
Development and Building Services  
Planning Department

c: Engineer  
Hydrology file  
CO Clerk

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

L-22/D57

PROJECT TITLE: CARLS JR ZONE MAP/DRG. FILE #: L-22-2  
 DRB #: AA 03 AA000062 EPC#: \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: TRACT A-1, FOUR HILLS VILLAGE SHOPPING CENTER & APARTMENT COMPLEX  
 CITY ADDRESS: 13100 Central NE

ENGINEERING FIRM: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_

CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 ZIP CODE: \_\_\_\_\_

OWNER: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_

CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 ZIP CODE: \_\_\_\_\_

ARCHITECT: SCHLEGEL LEWIS ARCHITECTS  
 ADDRESS: 1670 CENTRAL SE  
 CITY, STATE: ALBANY NM

CONTACT: DAVID ABBOTT  
 PHONE: 247-1529  
 ZIP CODE: 87106

SURVEYOR: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_

CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 ZIP CODE: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_

CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 ZIP CODE: \_\_\_\_\_

**CHECK TYPE OF SUBMITTAL:**

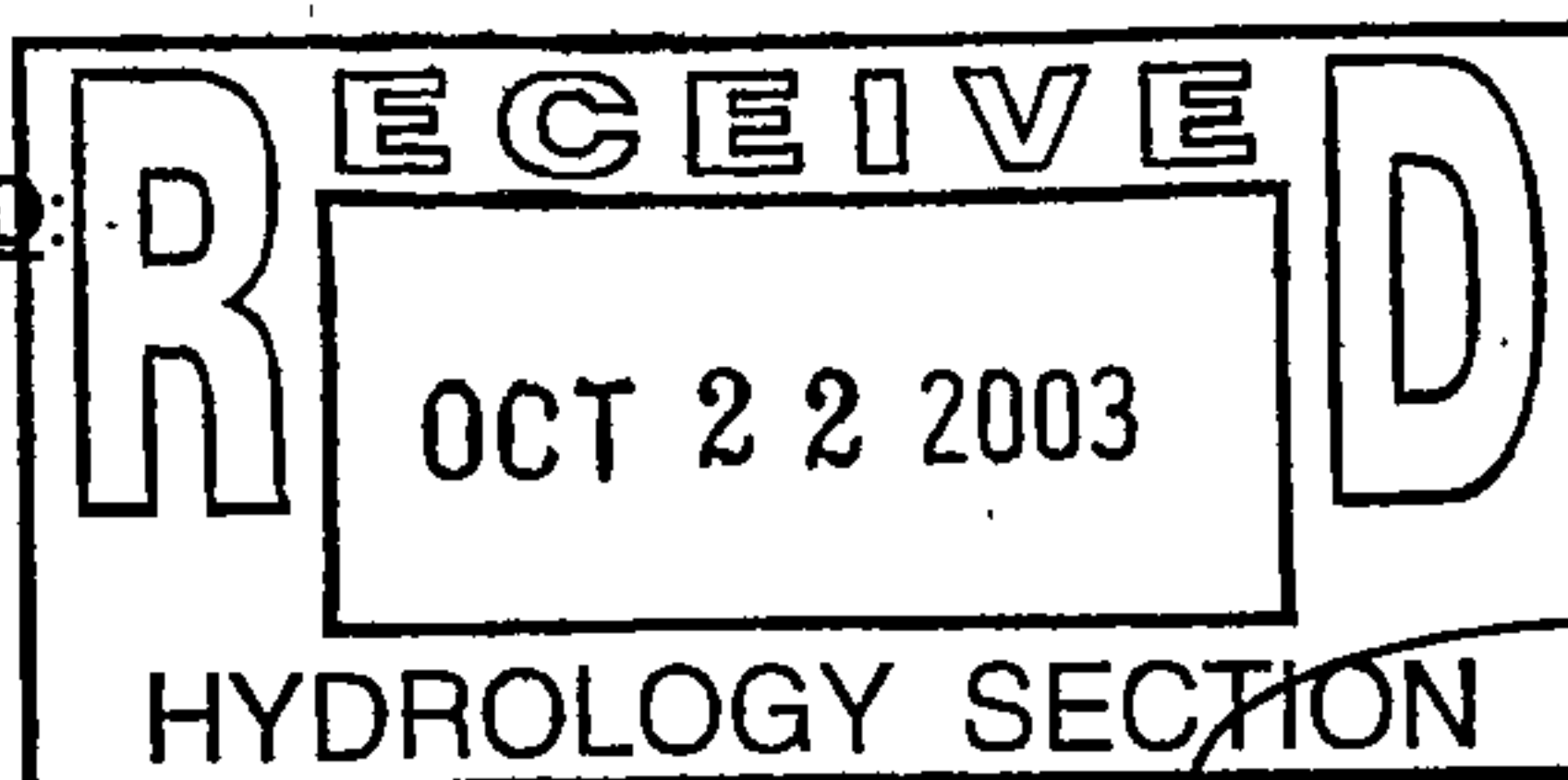
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☒ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

**CHECK TYPE OF APPROVAL SOUGHT:**

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATE OF OCCUPANCY (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

**WAS A PRE-DESIGN CONFERENCE ATTENDED:**

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED 10/22/03 BY: [Signature]

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five
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3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

# Schlegel Lewis Architects

10/22/03

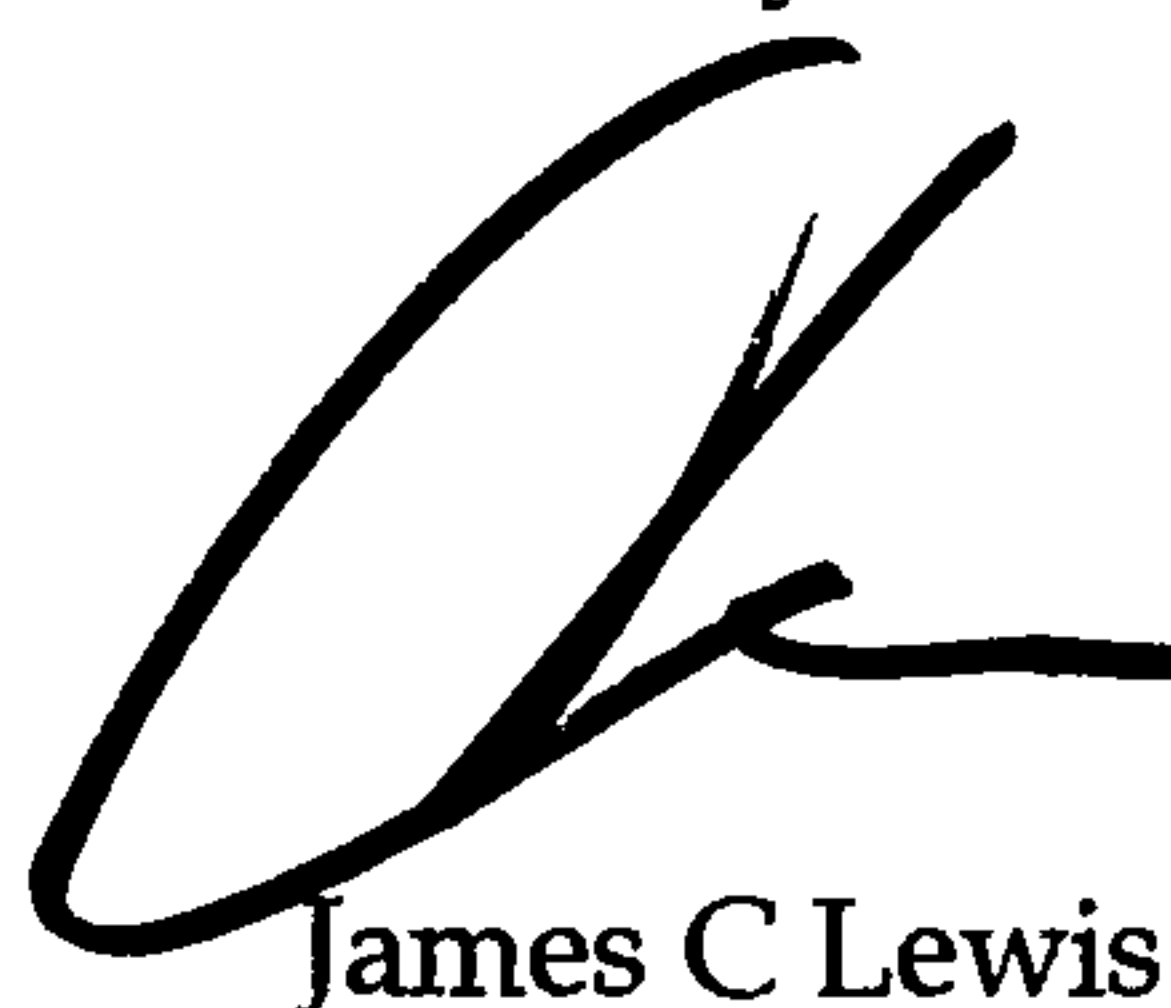
City of Albuquerque  
Traffic Division  
P.O. Box 1293  
Albuquerque, NM 87103

Re: 13100 Central NE, Carl's Jr.  
Letter of Architectural Certification submitted for final Certificate of Occupancy

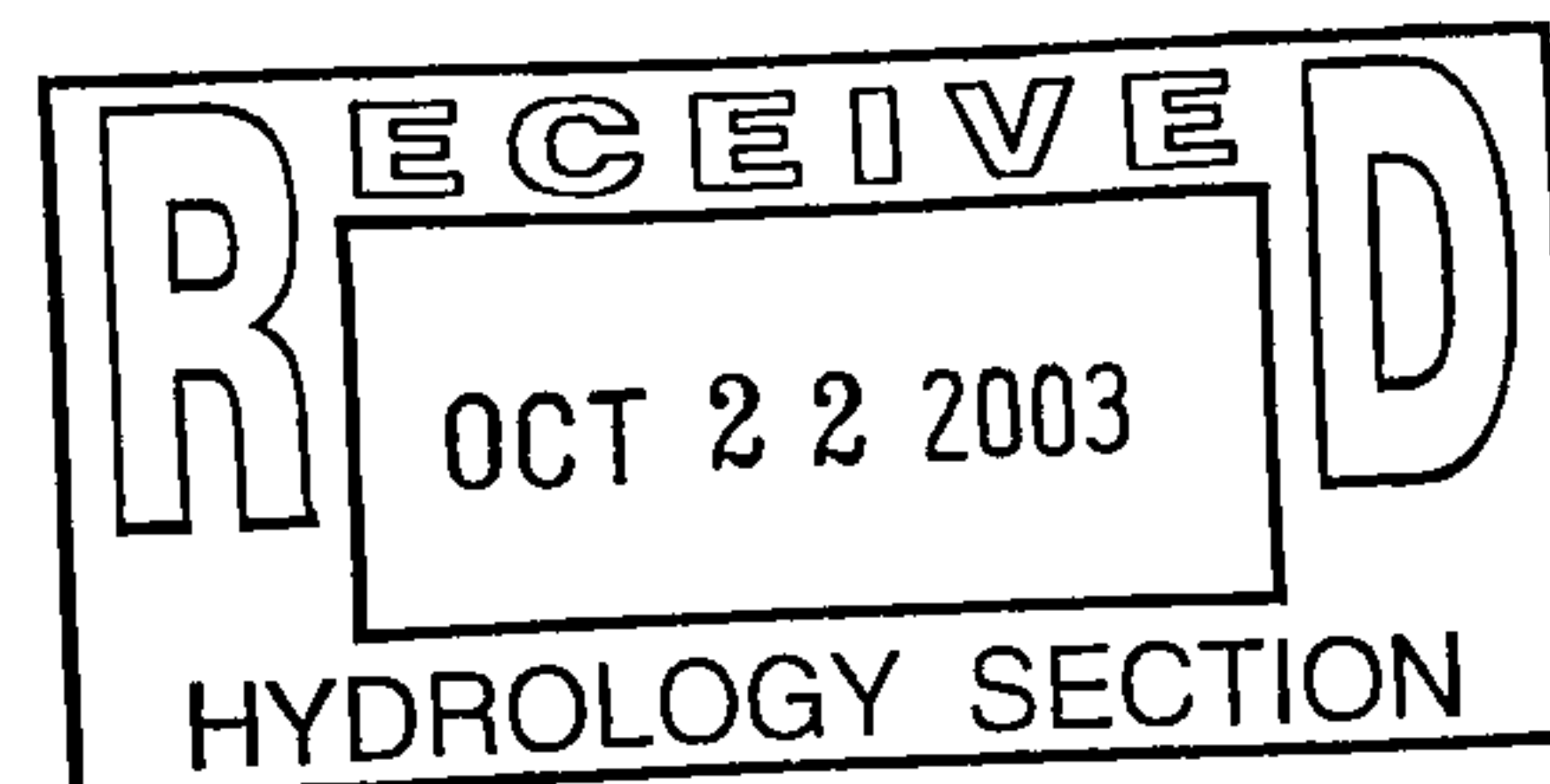
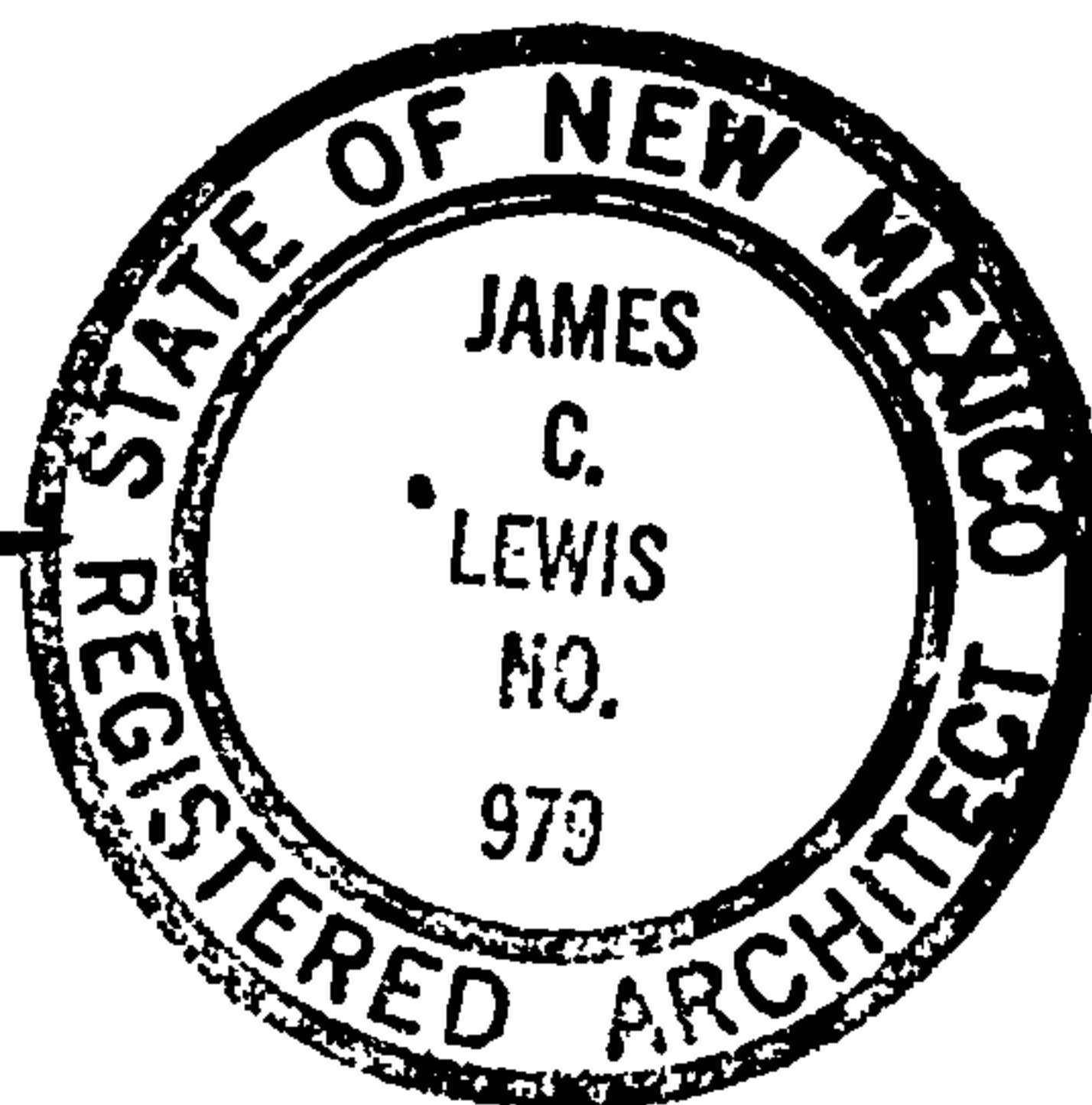
We have revisited the above referenced site and to the best of our knowledge, the circulation areas, parking spaces, including HC spaces, sidewalks, ramps and landscaped areas are in substantial compliance with the approved site plan.

If you have any questions, please feel free to call our office at 247-1529.

Sincerely,



James C Lewis



jcl/dba



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**Planning Department  
Transportation Development Services Section**

October 10, 2003

James C. Lewis, Registered Architect  
Schlegel Lewis Architects  
1620 Central SE  
Albuquerque, NM 87106

Re: Approval of Temporary Certificate of Occupancy (C.O.) for  
Carl's Jr., [L-22 / D57]  
13100 Central  
Architect's Stamp Dated 10/09/03

Dear Mr. Lewis:

Based on the information provided on your submittal dated October 9, 2003, the above referenced project is approved for a 30-day Temporary C.O.

A Temporary C.O. has been issued allowing the outstanding parking lot striping (after seal coat application) issue to be completed within this time period. When this remaining issue has been fully completed, are in substantial compliance, an approved site plan with transportation signature submitted and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

The Certification package for Final C.O. must include an exact copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead- stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

If you have any questions, please call me at 924-3620.

Sincerely,

Nilo E. Salgado-Fernandez, P.E.  
Senior Traffic Engineer  
Development and Building Services  
Planning Department

c: Engineer  
Hydrology file  
CO Clerk

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

L-22 / D57

PROJECT TITLE: CARLS JR. ZONE MAP/DRG. FILE #: L-22-2  
 DRB #: \_\_\_\_\_ EPC#: AA 03AAD 00002 WORK ORDER#: \_\_\_\_\_  
 LEGAL DESCRIPTION: TRACT A-1, FOUR HILLS VILLAGE SHOPPING CENTER & APARTMENT COMPLEX  
 CITY ADDRESS: 13100 CENTRAL ST

ENGINEERING FIRM: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_

CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 ZIP CODE: \_\_\_\_\_

OWNER: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_

CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 ZIP CODE: \_\_\_\_\_

ARCHITECT: SCHLEGEL LEWIS ARCHITECTS  
 ADDRESS: 1620 CENTRAL ST  
 CITY, STATE: ALBQ. NM

CONTACT: DAVID ABBOTT  
 PHONE: 247-1529  
 ZIP CODE: 87106

SURVEYOR: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_

CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 ZIP CODE: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_

CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 ZIP CODE: \_\_\_\_\_

## CHECK TYPE OF SUBMITTAL:

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- ☐ DRAINAGE PLAN
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- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☒ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

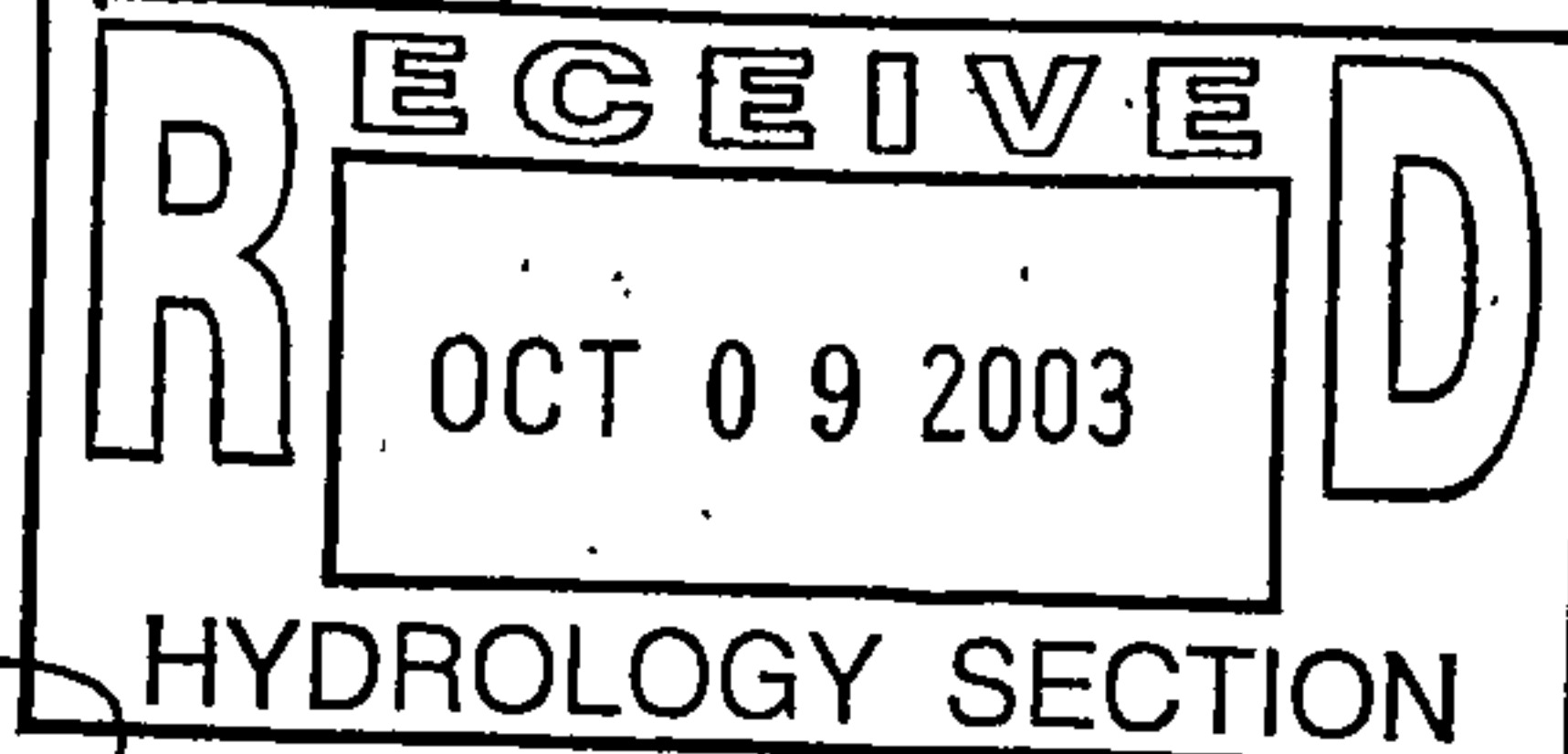
## CHECK TYPE OF APPROVAL SOUGHT:

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- ☐ PRELIMINARY PLAT APPROVAL
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- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

## WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

NSF  
 10/10/03  
 3:40 pm



DATE SUBMITTED: 10/9/03 BY: [Signature]

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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# Schlegel Lewis Architects

10/9/03


City of Albuquerque  
Traffic Division  
P.O. Box 1293  
Albuquerque, NM 87103

Re: 13100 Central NE, Carl's Jr.  
Letter of Architectural Certification submitted for final Certificate of Occupancy

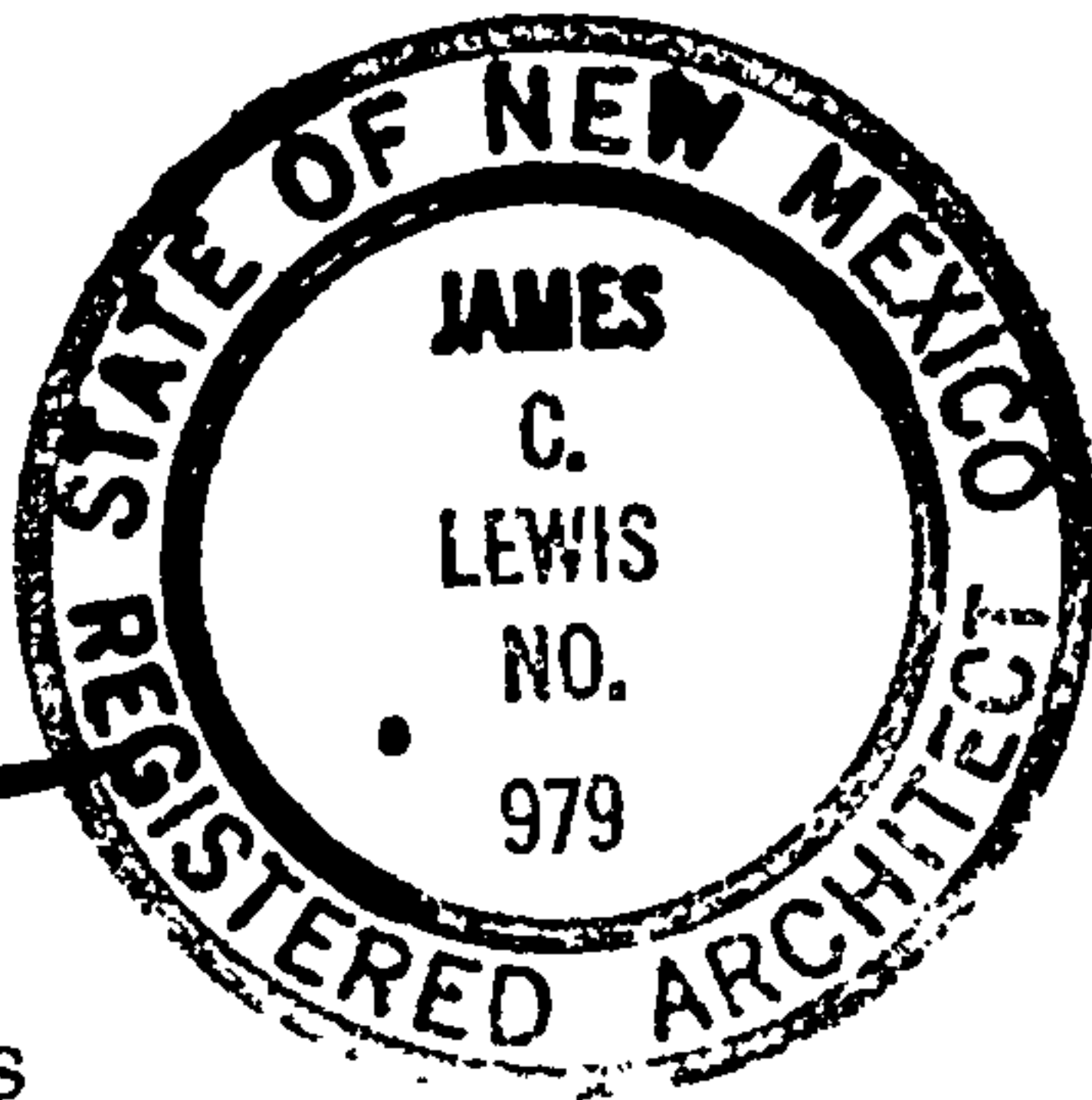
We have visited the above referenced site and to the best of our knowledge, the circulation areas, parking spaces, including HC spaces, sidewalks, ramps and landscaped areas are in substantial compliance with the approved site plan. However, the final parking lot striping will not be complete until 10/12/03 after they seal coat the asphalt.

If you have any questions, please feel free to call our office at 247-1529.

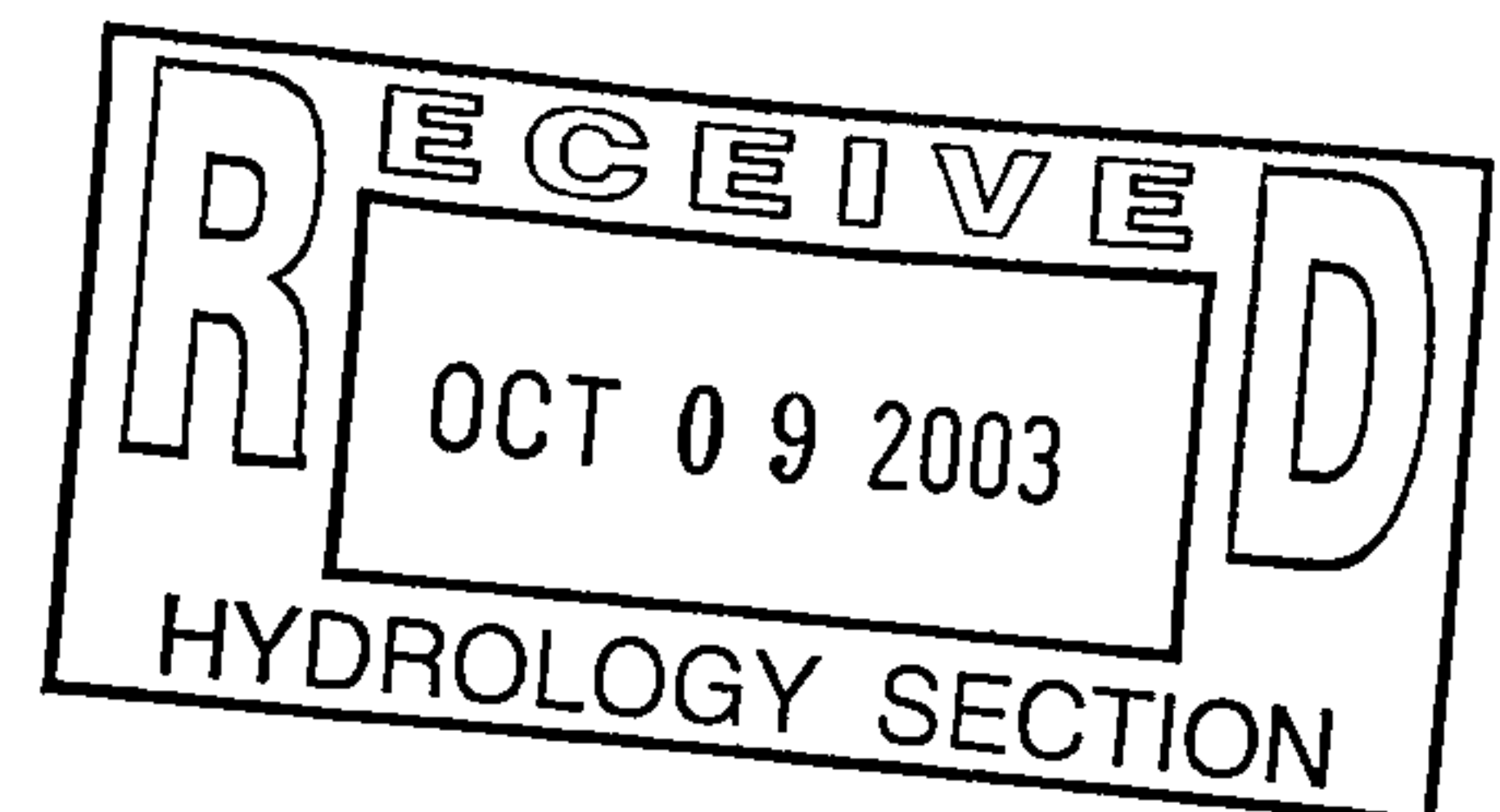
Sincerely,



James C Lewis



jcl/dba





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 27, 2003

Gregory J. Krenik, PE  
D. Mark Goodwin & Associates  
PO Box 90606  
Albuquerque, NM 87119

**RE: Carl's Jr. Drainage Report (L-22/D57)**  
**Engineer's Stamp Dated March 21, 2003**

Dear Mr. Krenik:

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Sincerely,

Carlos A. Montoya, PE  
City Floodplain Administrator

C: file  
Matt Cline, Arroyo Maintenance  
Pam Lujan, Excavation Permits

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV.1/11/2002)

L-22/D57

PROJECT TITLE: Carl's Jr - Four Hills ZONE MAP/DRB.FILE#: L-22

DRB#: \_\_\_\_\_ EPC# \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: Western Portion of Tract A Four Hills Village Shopping Center and Apartment Complex

CITY ADDRESS: \_\_\_\_\_

ENGINEERING FIRM: Mark Goodwin & Associates, PA CONTACT: Gregory J. Krenik, PE

ADDRESS: P.O. Box 90606 Albuquerque NM 87119 PHONE: 828-2200

CITY, STATE: Albuquerque NM ZIP CODE: 87119

OWNER: Carl's Jr. / co of Schlegel Lewis Architects CONTACT: Jim Lewis

ADDRESS: 1620 Central Avenue SE PHONE: 247-1529

CITY, STATE: Albuquerque, NM ZIP CODE: 87106

ARCHITECT: SCHLEGEL LEWIS ARCHITECTS CONTACT: Jim Lewis

ADDRESS: 1620 Central Avenue SE PHONE: 247-1529

CITY, STATE: Albuquerque, NM 87106 ZIP CODE: 87106

SURVEYOR: N/A CONTACT: \_\_\_\_\_

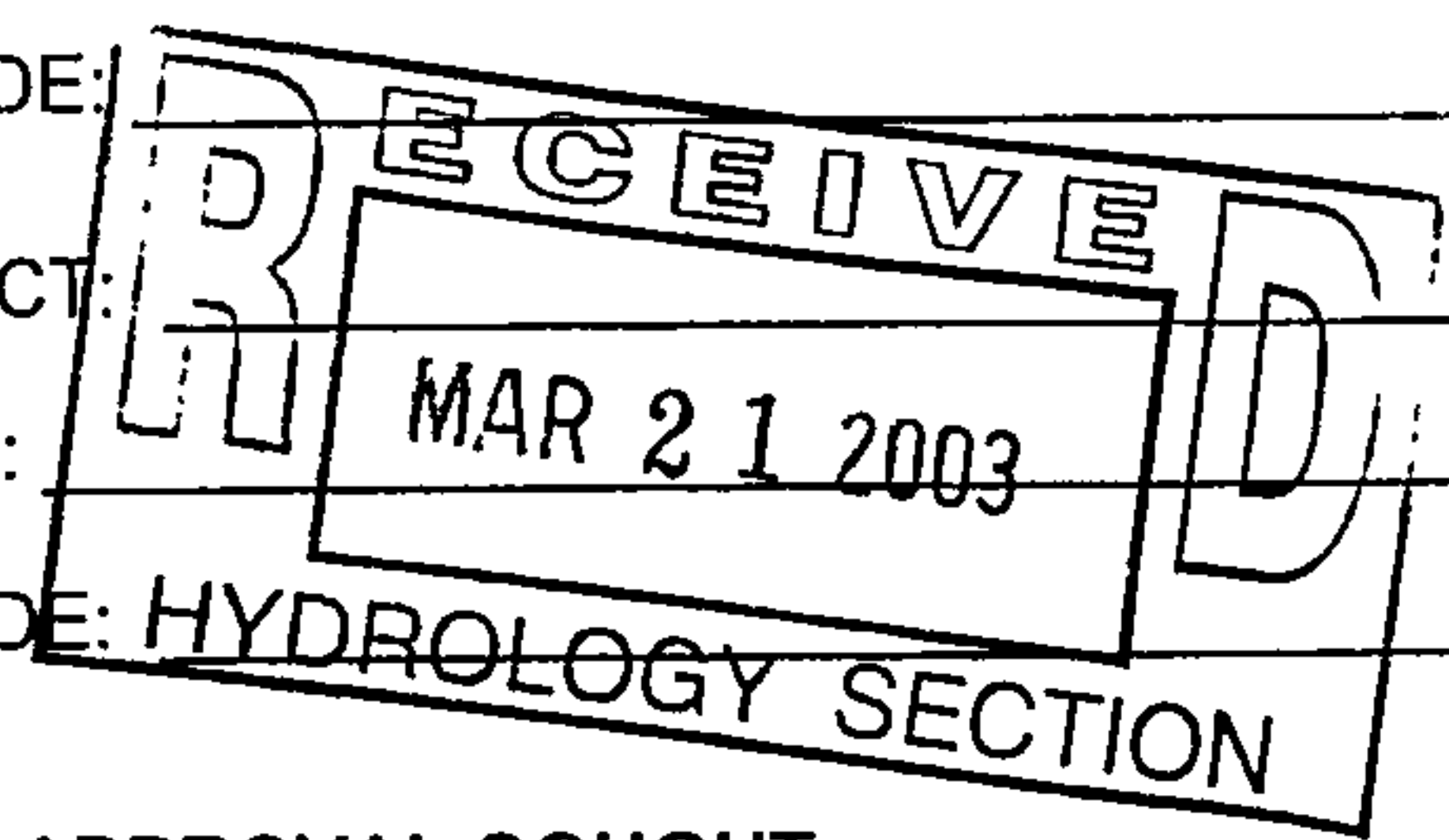
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

CONTRACTOR: N/A CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_



## TYPE OF SUBMITTAL:

- ☒ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
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- ☐ SIA / FINANCIAL GUARANTY RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
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- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY) \_\_\_\_\_

## WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: 3-21-03

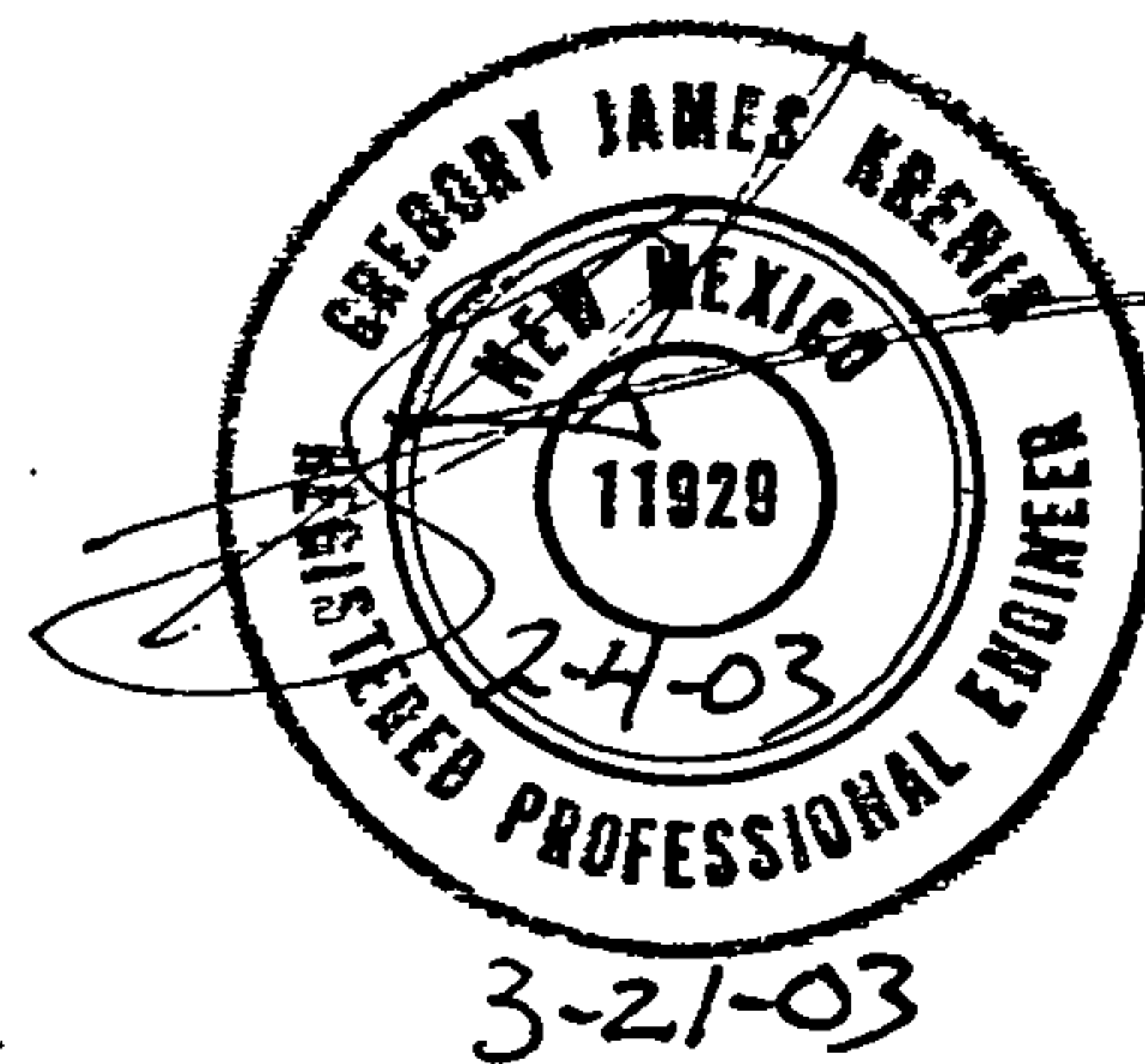
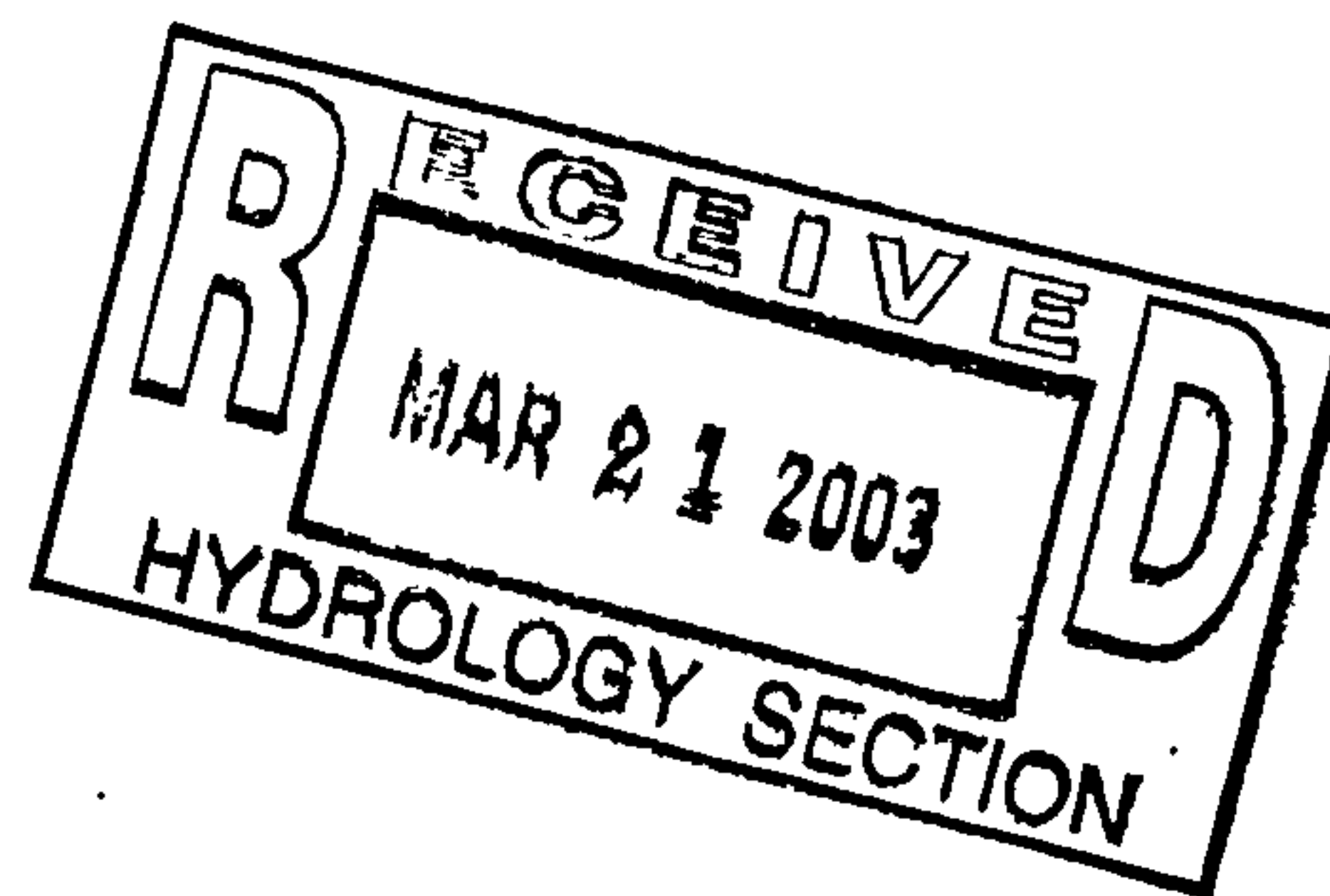
BY: \_\_\_\_\_

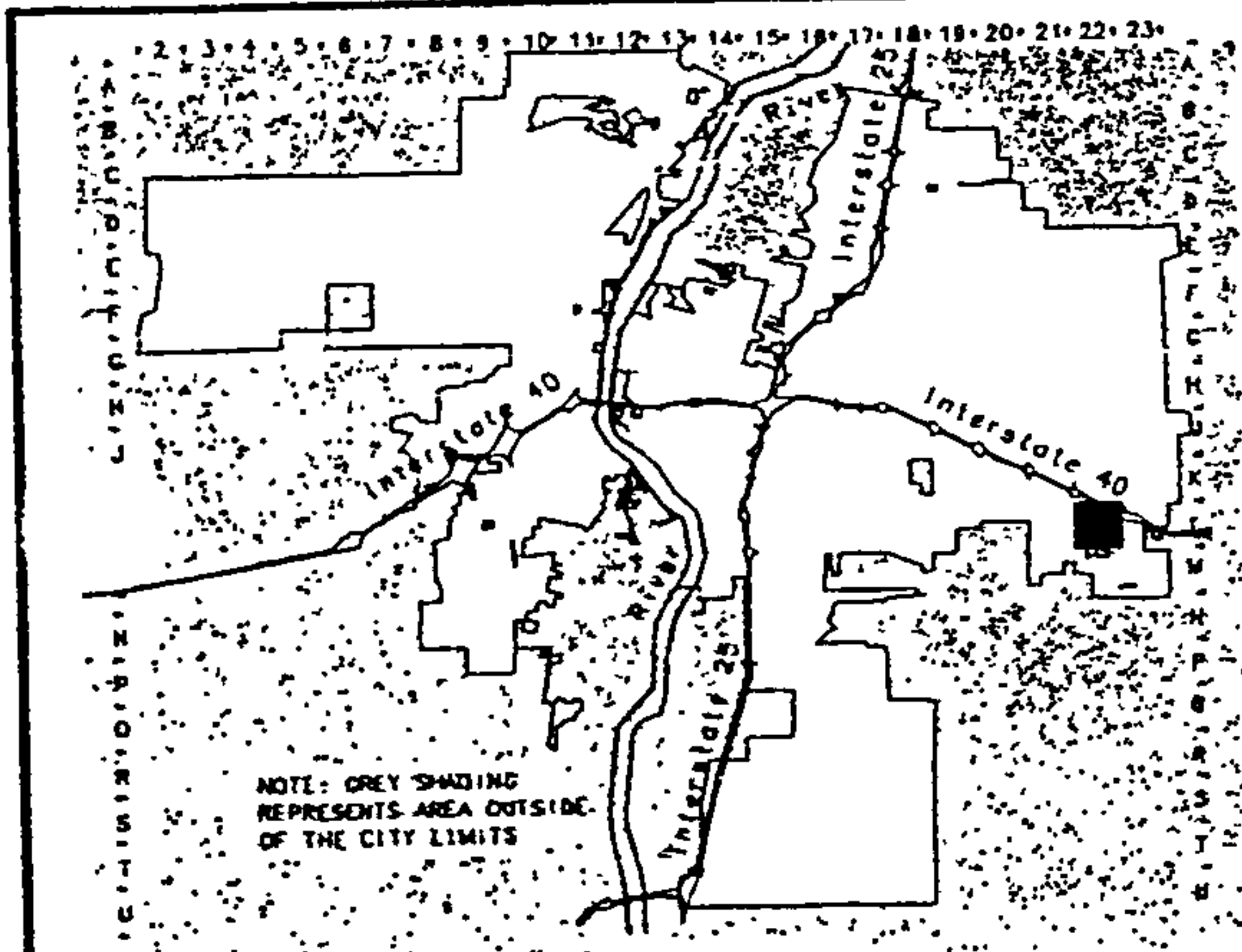
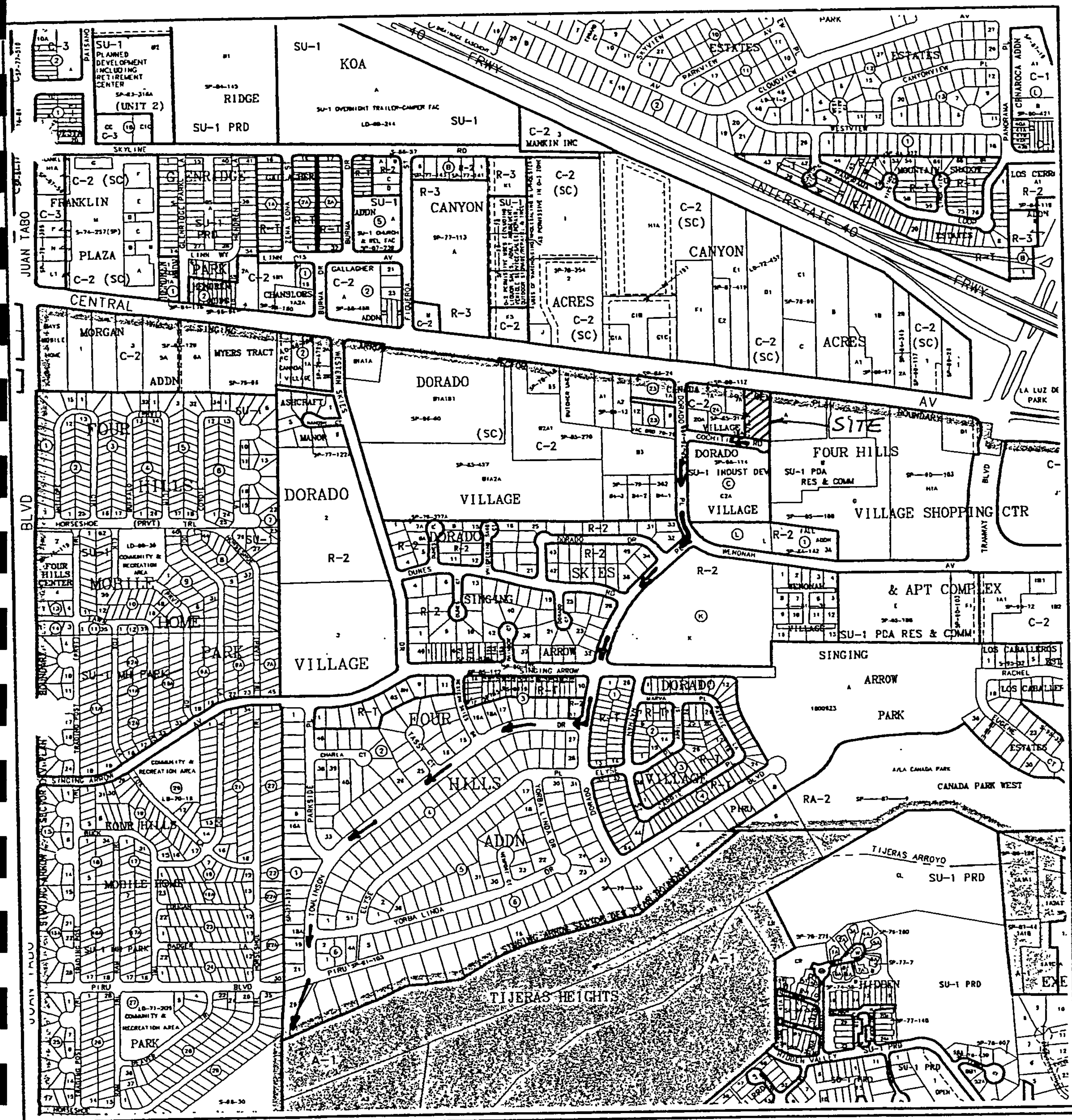
Gregory J. Krenik, PE

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*Drainage Report*  
*for*  
*Carl's Jr. at Four Hills*

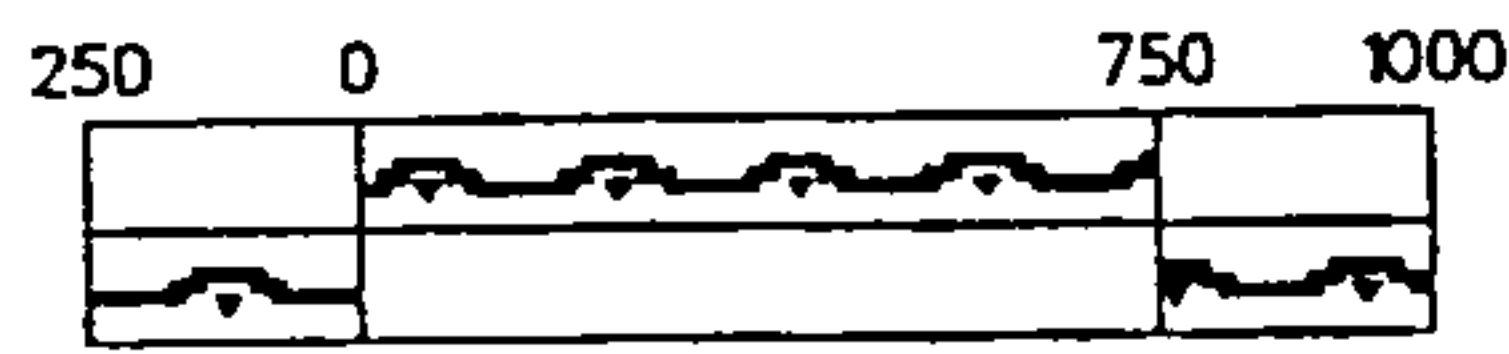




CITY OF  
Albuquerque  
A Geographic Information System  
PLANNING DEPARTMENT

© Copyright 2002

GRAPHIC SCALE IN FEET



Zone Atlas Page

L-22-Z

Map Amended through April 03, 2002



D. Mark Goodwin & Associates, P.A.  
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199  
(505) 828-2200 FAX 797-9539  
e-mail: dmg@swcp.com

PROJECT CARLS JR - FOUR HILLS  
SUBJECT DRAINAGE CALCS  
BY GSK DATE 1-31-03  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 1 OF \_\_\_\_\_

REVISED 3-21-03

- THE IS IS THE WEST PORTION OF TRACT "A" FOUR HILLS VILLAGE SHOPPING CENTER AND APARTMENT COMPLEX.
- SITE AREA = 0.9199 AC
- SITE IS NOT IN A 100 YR FLOOD ZONE
- THE ORIGINALLY WAS THE INTERNATIONAL HOUSE OF PINKIES DRAINAGE REPORT PREPARED BY BOHANNAN-HUSTON FEB 4, 1988 L-22/D33D (ENCLOSED)
- RUNOFF IS DIRECTLY DISCHARGED TO CENTRAL AVE AND COCHITI ROAD BECAUSE ALL DOWNSTREAM IMPROVEMENTS ARE IN PLACE.
- THE SITE IS SURROUNDED BY DEVELOPED SITES

TOTAL SITE = 0.9199 AC

TYPE B = 0.2250 AC

TYPE D = 0.6949 AC

$P_1 = 2.07$

$P_6 = 2.60$

$P_{24} = 3.25$

FROM HYMO OUTPUT SHEETS 3-5

$Q = 3.97$  CFS

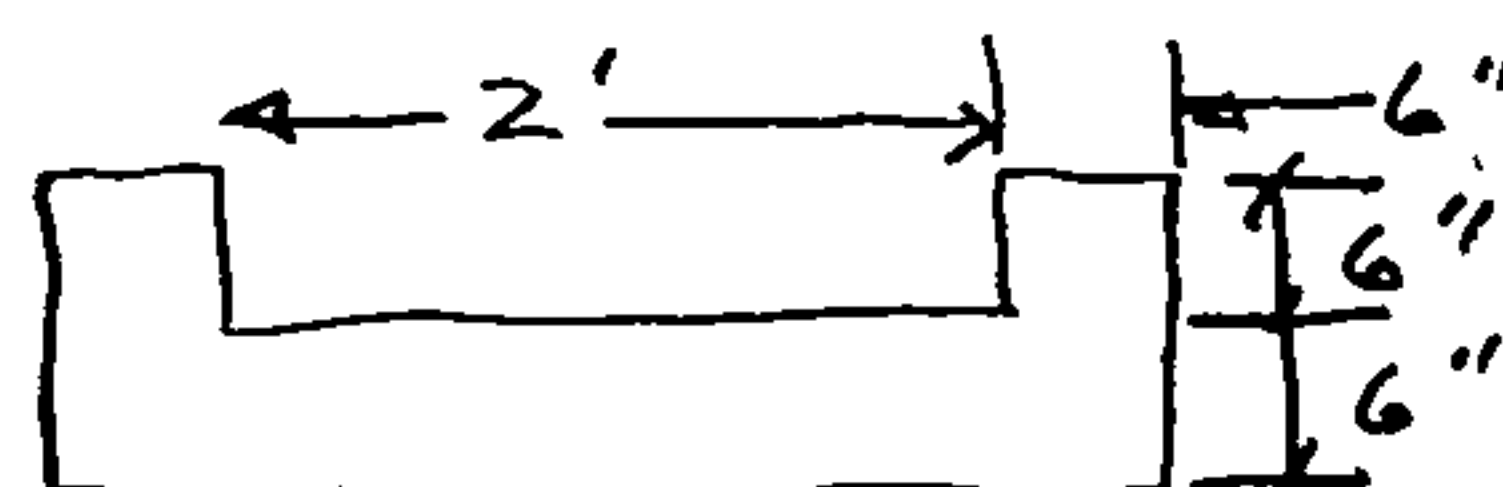
- SITE WILL DRAIN IN TWO LOCATIONS

1- NW CORNER TO CENTRAL

2- SW CORNER TO COCHITI FROM POND

- FLOW IS SPLIT APPROXIMATELY INTO THIRDS  $\frac{1}{3}$  TO CENTRAL  $\frac{2}{3}$  COCHITI

- A 2' CONCRETE CHANNEL WILL BE USED TO CHANNEL FLOW IN THE NW CORNER THROUGH A 2' SIDEWALK CULVERT TO THE ROADWAY



4000 PSI CONCRETE

$$Q = 2.95 L H^{3/2}$$

$$Q = \frac{3.97}{3} = 1.32 \text{ CFS} \quad L = 2'$$

$$H = 0.37' < 0.5 \text{ OK}$$

- THE EXISTING POND WILL BE REPAIRED AS REQUIRED AND THE OUTFALL CLEANED AND EXPOSED TO WORK PROPERLY.



D. Mark Goodwin & Associates, P.A.  
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199  
(505) 828-2200 FAX 797-9539  
e-mail: dmg@swcp.com

PROJECT CARL'S JR - FOUR HILLS  
SUBJECT DRAINAGE CALCS  
BY GSK DATE 3-21-03  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 2 OF \_\_\_\_\_

- THE SITE PRESENTLY HAS A RETENTION POND WITH A CAPPED OUTFALL - 4" PIPE THROUGH WALL THAT WILL BE OPENED TO TURN THE POND INTO A DETENTION POND.
- DOWNSTREAM CAPACITY IS ALL DEVELOPED IMPROVEMENTS.
  - FLOW ENTERS COCHITT AND FLOWS WEST TO DORADO PL
  - FLOW ENTERS DORADO PL AND FLOWS SOUTH TO TOMLINSON DR.
  - FLOW ENTERS TOMLINSON DR AND FLOWS WEST THEN SOUTH TO PIRU BLVD.
  - FLOW CROSSES PIRU BLVD AND ENTERS THE CONCRETE CHANNEL WHICH EMPTIES INTO THE TIJERAS ARROYO (SEE VICINITY MAP.)
- THE TOPOGRAPHY OF THE SITE LIMITS RUNOFF TO CENTRAL AVE. THE SITE IS GRADED TO KEEP MOST OF THE EXISTING PAVEMENT AS POSSIBLE. THE SITE IS GRADED SUCH THAT AS MUCH OF THE SITE DRAINS TO CENTRAL AS POSSIBLE.

```

START                TIME=0.0
***** HYDROGRAPH FOR CARL'S JR FOUR HILLS
RAINFALL             TYPE=1 RAIN QUARTER=0.0 IN
                     RAIN ONE=2.07 IN RAIN SIX=2.60 IN
                     RAIN DAY=3.25 IN DT=0.03333 HR
COMPUTE NM HYD       ID=1 HYD NO=101.1 AREA=0.001437 SQ MI
                     PER A=0 B=24.46 C=0 D=75.54
                     TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=1 CODE=1
FINISH

```

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January,  
1994

RUN DATE (MON/DAY/YR) = 01/31/2003

START TIME (HR:MIN:SEC) = 13:47:06

USER NO.=

M\_GOODWN.I01

INPUT FILE = CARLJR4H.DAT

START TIME=0.0

\*\*\*\*\* HYDROGRAPH FOR CARL'S JR FOUR HILLS

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=2.07 IN RAIN SIX=2.60 IN

RAIN DAY=3.25 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA  
ATLAS 2 - PEAK AT 1.40 HR.

	DT =	.033330 HOURS	END TIME =	5.999400		
HOURS						
	.0000	.0037	.0075	.0114	.0153	.0194
.0235	.0277	.0320	.0365	.0410	.0456	.0504
.0553	.0603	.0655	.0708	.0763	.0819	.0878
.0938	.1001	.1066	.1133	.1204	.1277	.1353
.1433	.1517	.1605	.1699	.1756	.1817	.1883
.2023	.2337	.2820	.3515	.4462	.5708	.7296
.9273	1.1687	1.3927	1.4862	1.5652	1.6355	1.6993
1.7582	1.8128	1.8639	1.9117	1.9567	1.9992	2.0394
2.0773	2.1133	2.1474	2.1798	2.2106	2.2397	2.2473
2.2544	2.2612	2.2678	2.2741	2.2801	2.2860	2.2916
2.2971	2.3025	2.3077	2.3127	2.3176	2.3224	2.3271
2.3317	2.3362	2.3406	2.3449	2.3491	2.3532	2.3573
2.3612	2.3651	2.3690	2.3728	2.3765	2.3802	2.3838
2.3873	2.3908	2.3943	2.3977	2.4010	2.4043	2.4076
2.4108	2.4140	2.4172	2.4203	2.4233	2.4264	2.4294
2.4323	2.4353	2.4382	2.4410	2.4439	2.4467	2.4495
2.4522	2.4550	2.4577	2.4604	2.4630	2.4656	2.4682
2.4708	2.4734	2.4759	2.4784	2.4809	2.4834	2.4859
2.4883	2.4907	2.4931	2.4955	2.4978	2.5002	2.5025
2.5048	2.5071	2.5094	2.5116	2.5139	2.5161	2.5183
2.5205	2.5227	2.5248	2.5270	2.5291	2.5312	2.5333
2.5354	2.5375	2.5396	2.5416	2.5437	2.5457	2.5477

2.5497						
	2.5517	2.5537	2.5557	2.5576	2.5596	2.5615
2.5635						
	2.5654	2.5673	2.5692	2.5711	2.5729	2.5748
2.5767						
	2.5785	2.5804	2.5822	2.5840	2.5858	2.5876
2.5894						
	2.5912	2.5930	2.5947	2.5965	2.5982	2.6000

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.001437 SQ MI  
PER A=0 B=24.46 C=0 D=75.54  
TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000  
SHAPE CONSTANT, N = 7.106420  
UNIT PEAK = 4.2857 CFS UNIT VOLUME = .9965 B =  
526.28 P60 = 2.0700  
AREA = .001086 SQ MI IA = .10000 INCHES INF =  
.04000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER  
METHOD - DT = .033330

K = .132811HR TP = .133300HR K/TP RATIO = .996335  
SHAPE CONSTANT, N = 3.543441  
UNIT PEAK = .85298 CFS UNIT VOLUME = .9842 B =  
323.49 P60 = 2.0700  
AREA = .000351 SQ MI IA = .50000 INCHES INF =  
1.25000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER  
METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

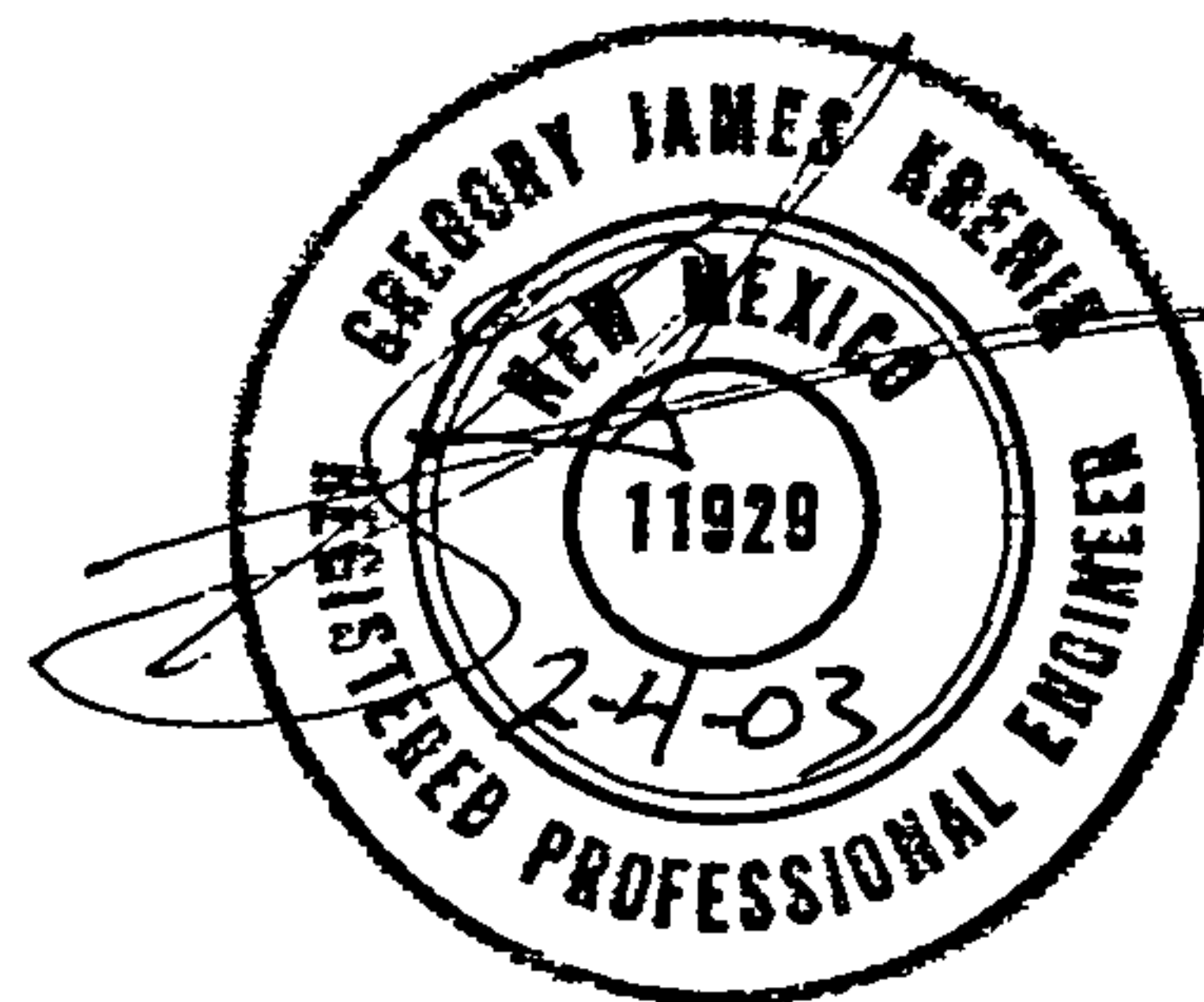
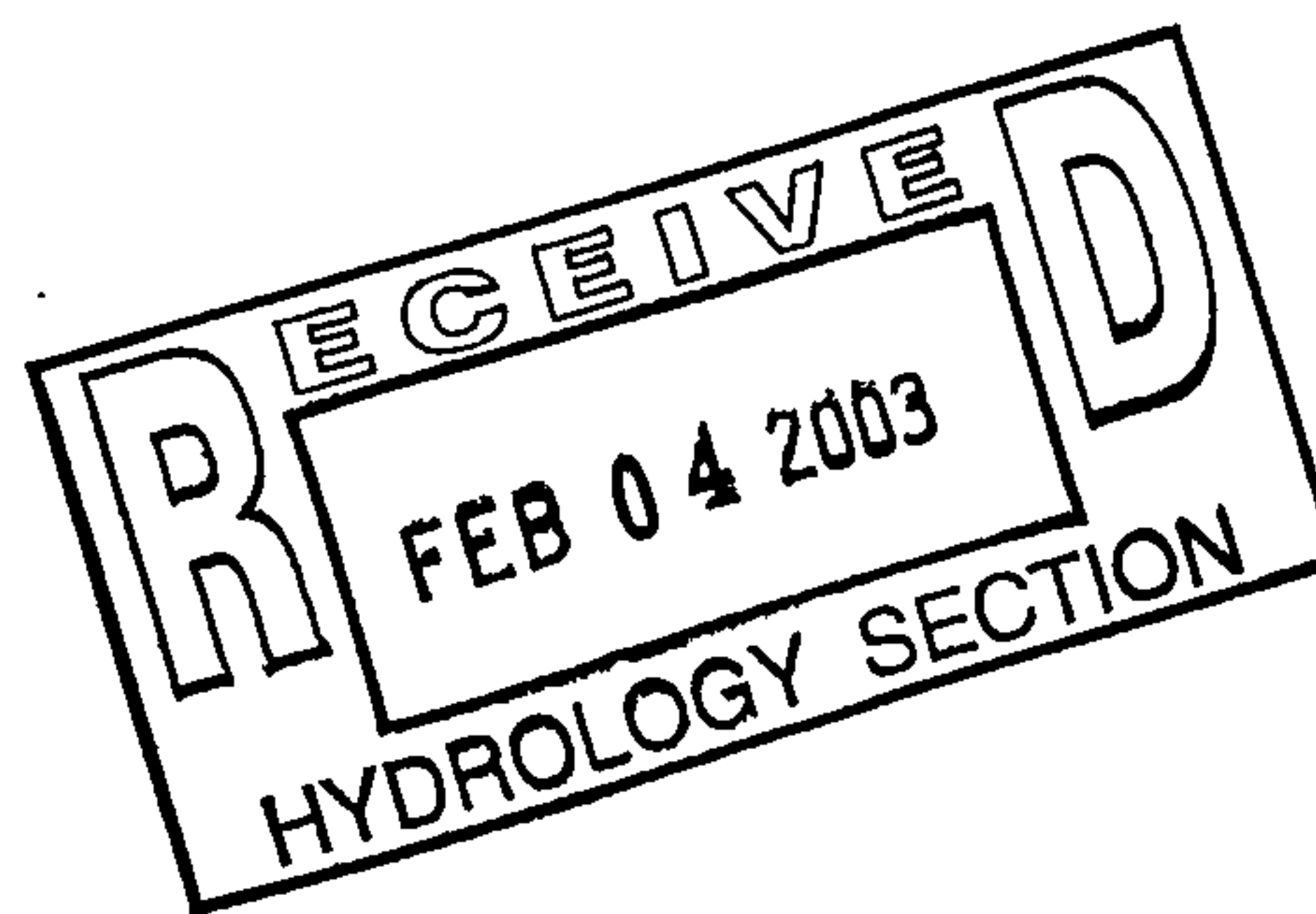
RUNOFF VOLUME = 1.99242 INCHES = .1527 ACRE-FEET  
PEAK DISCHARGE RATE = 3.97 CFS AT 1.500 HOURS BASIN  
AREA = .0014 SQ. MI.

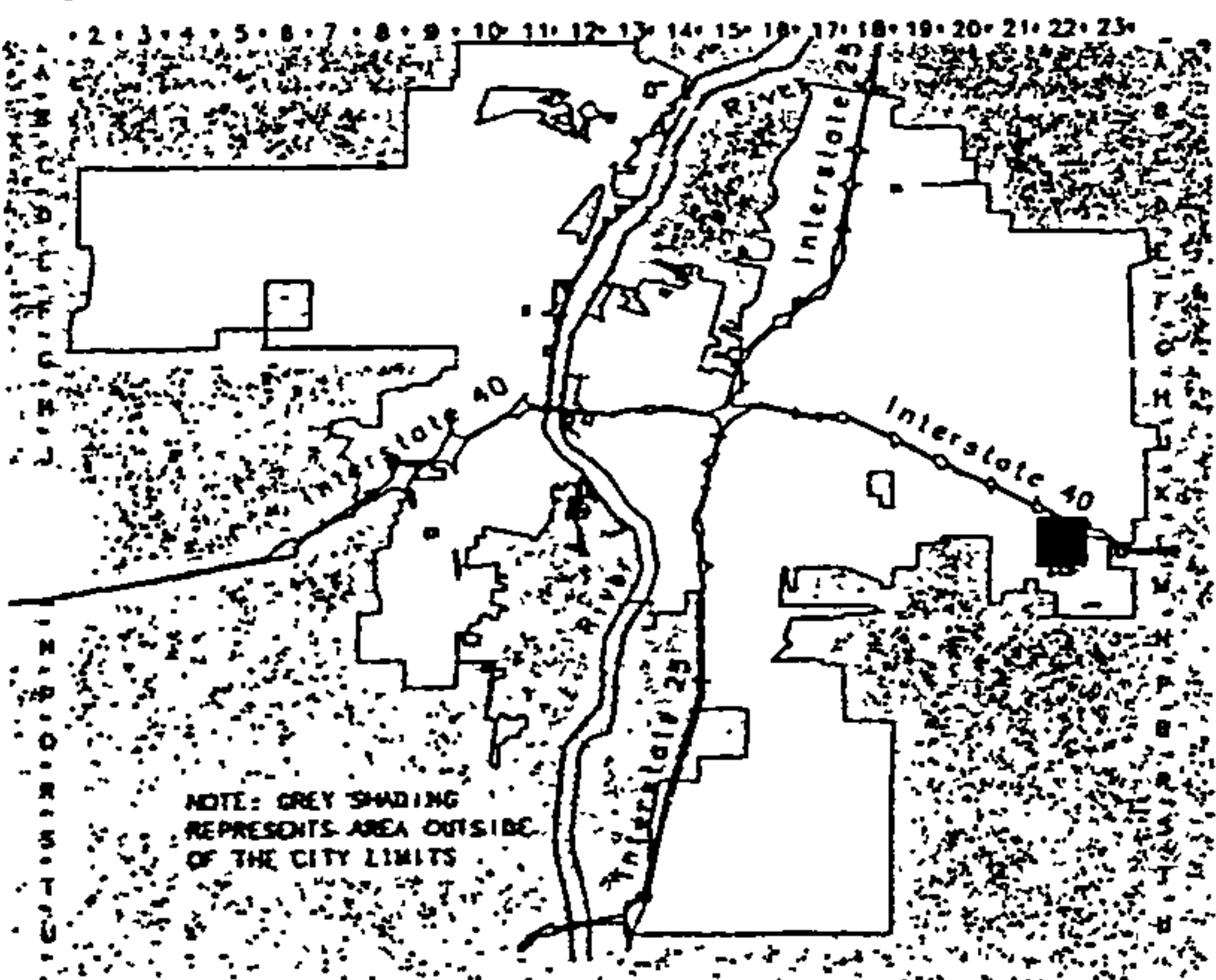
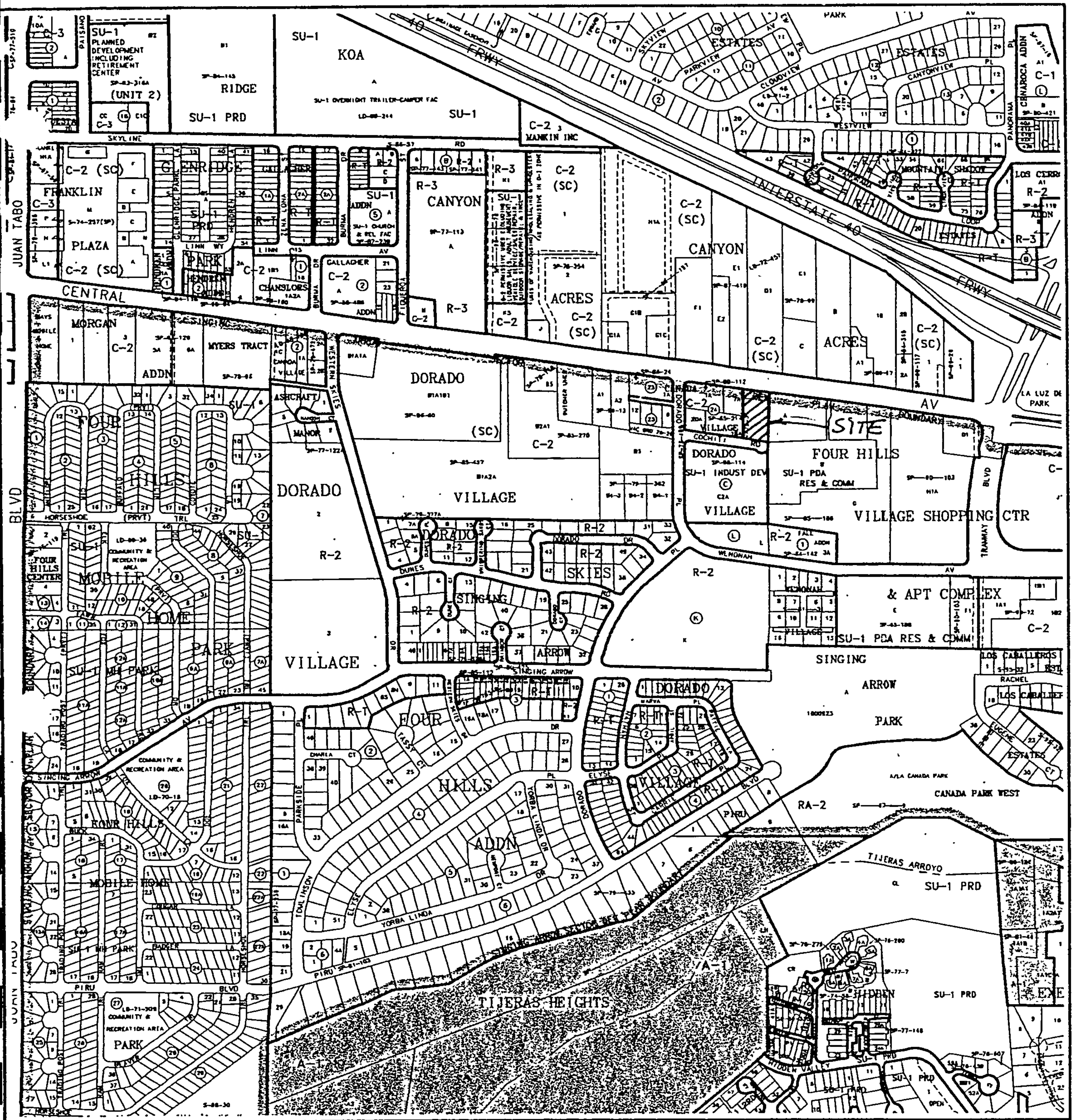
FINISH

NORMAL PROGRAM FINISH

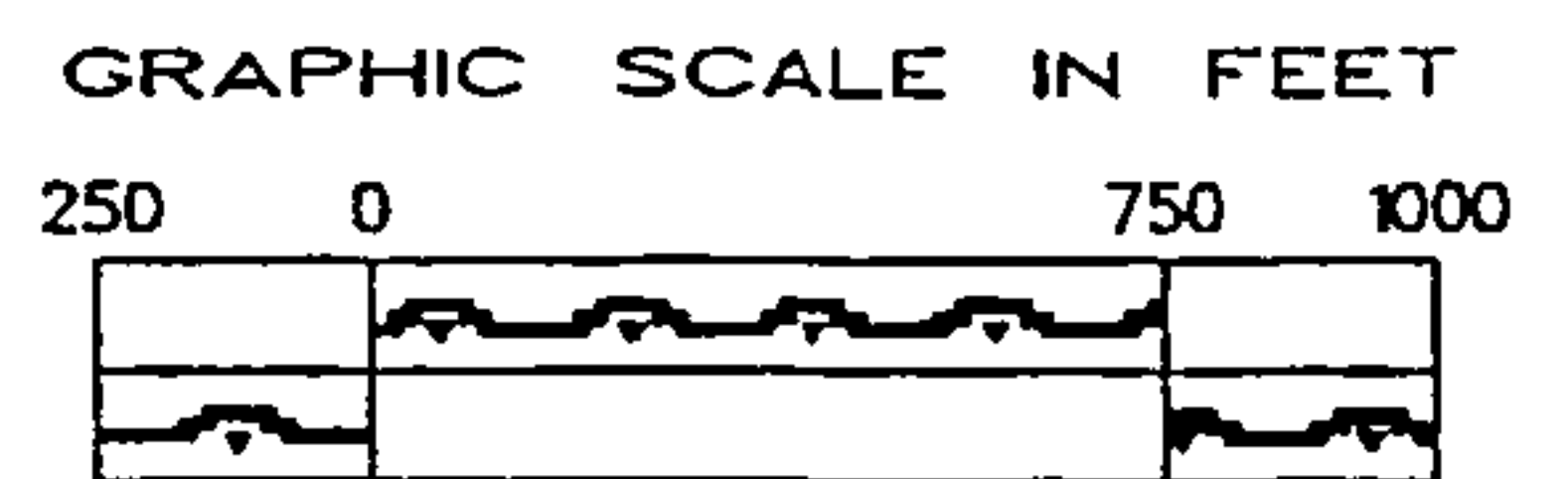
END TIME (HR:MIN:SEC) = 13:47:06

*Drainage Report*  
*for*  
*Carl's Jr. at Four Hills*





CITY OF  
Albuquerque  
Albuquerque Geographic Information System  
PLANNING DEPARTMENT  
© Copyright 2002



Zone Atlas Page

L-22-Z

Map Amended through April 03, 2002



D. Mark Goodwin & Associates, P.A.  
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199  
(505) 828-2200 FAX 797-9539  
e-mail: dmg@swcp.com

PROJECT CARLS JR - FOUR HILLS  
SUBJECT DRAINAGE CALCS  
BY GSK DATE 1-31-03  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 1 OF \_\_\_\_\_

- THE IS IS THE WEST PORTION OF TRACT "A" FOUR HILLS VILLAGE SHOPPING CENTER AND APARTMENT COMPLEX.
- SITE AREA = 0.9199 AC
- SITE IS NOT IN A 100 YR FLOOD ZONE
- THE ORIGINALLY WAS THE INTERNATIONAL HOUSE OF PANCKES DRAINAGE REPORT PREPARED BY BOHANNAN-HUSTON FEB 4, 1988 L-22/D33D (ENCLOSED)
- RUNOFF IS DIRECTLY DISCHARGED TO CENTRAL AVE AND COCHITI ROAD BECAUSE ALL DOWNSTREAM IMPROVEMENTS ARE IN PLACE.
- THE SITE IS SURROUNDED BY DEVELOPED SITES

$$\text{TOTAL SITE} = 0.9199 \text{ AC}$$

$$\text{TYPE B} = 0.2250 \text{ AC}$$

$$\text{TYPE D} = 0.6949 \text{ AC}$$

$$P_1 = 2.07 \text{ in}$$

$$P_6 = 2.60 \text{ in}$$

$$P_{24} = 3.25 \text{ in}$$

FROM HYMO OUTPUT SHEETS 2-4

$$Q = 3.97 \text{ CFS}$$

- SITE WILL DRAIN IN THREE LOCATIONS

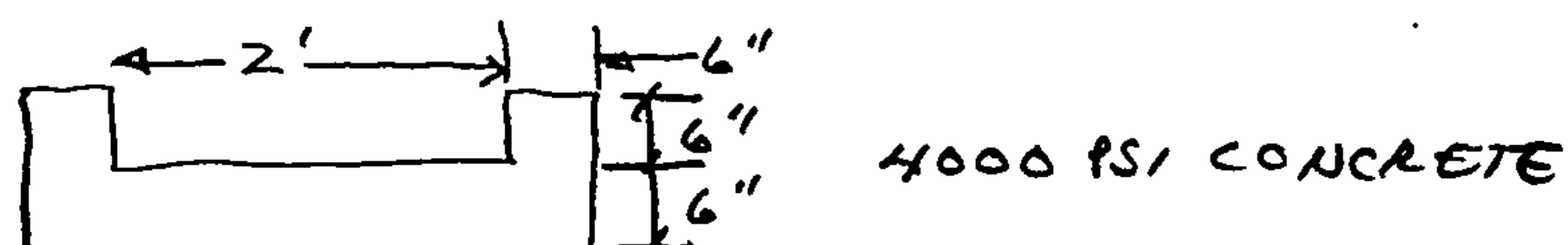
1 - NW CORNER TO CENTRAL

2 - SW CORNER TO COCHITI

3 - SE CORNER TO COCHITI

• FLOW IS SPLIT APPROXIMATELY INTO THIRDS

- A 2' CONCRETE CHANNEL WILL BE USED TO CHANNEL FLOW IN THE NW & SW CORNERS THROUGH A 2' SIDEWALK CULVERT TO THE ROADWAYS



$$Q = 2.95 L H^{3/2} \quad Q = \frac{3.97}{3} = 1.32 \text{ CFS} \quad L = 2'$$
$$H = 0.37' < 0.5' \text{ OK}$$

- THE EXISTING POND AND OUTFALL, WHICH NO LONGER FUNCTION, CAN BE REMOVED.

START TIME=0.0  
\*\*\*\*\* HYDROGRAPH FOR CARL'S JR FOUR HILLS  
RAINFALL TYPE=1 RAIN QUARTER=0.0 IN  
RAIN ONE=2.07 IN RAIN SIX=2.60 IN  
RAIN DAY=3.25 IN DT=0.03333 HR  
COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.001437 SQ MI  
PER A=0 B=24.46 C=0 D=75.54  
TP=0.1333 HR MASS RAINFALL=-1  
PRINT HYD ID=1 CODE=1  
FINISH

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January,  
1994

RUN DATE (MON/DAY/YR) = 01/31/2003  
START TIME (HR:MIN:SEC) = 13:47:06 USER NO.=

M\_GOODWN.I01

INPUT FILE = CARLJR4H.DAT

START TIME=0.0  
\*\*\*\*\* HYDROGRAPH FOR CARL'S JR FOUR HILLS  
RAINFALL TYPE=1 RAIN QUARTER=0.0 IN  
RAIN ONE=2.07 IN RAIN SIX=2.60 IN  
RAIN DAY=3.25 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA  
ATLAS 2 - PEAK AT 1.40 HR.

HOURS	DT =	.033330 HOURS	END TIME =	5.999400		
	.0000	.0037	.0075	.0114	.0153	.0194
.0235	.0277	.0320	.0365	.0410	.0456	.0504
.0553	.0603	.0655	.0708	.0763	.0819	.0878
.0938	.1001	.1066	.1133	.1204	.1277	.1353
.1433	.1517	.1605	.1699	.1756	.1817	.1883
.2023	.2337	.2820	.3515	.4462	.5708	.7296
.9273	1.1687	1.3927	1.4862	1.5652	1.6355	1.6993
1.7582	1.8128	1.8639	1.9117	1.9567	1.9992	2.0394
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2.5354	2.5375	2.5396	2.5416	2.5437	2.5457	2.5477

2.5497						
	2.5517	2.5537	2.5557	2.5576	2.5596	2.5615
2.5635						
	2.5654	2.5673	2.5692	2.5711	2.5729	2.5748
2.5767						
	2.5785	2.5804	2.5822	2.5840	2.5858	2.5876
2.5894						
	2.5912	2.5930	2.5947	2.5965	2.5982	2.6000

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.001437 SQ MI  
 PER A=0 B=24.46 C=0 D=75.54  
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000  
 SHAPE CONSTANT, N = 7.106420  
 UNIT PEAK = 4.2857 CFS UNIT VOLUME = .9965 B =  
 526.28 P60 = 2.0700  
 AREA = .001086 SQ MI IA = .10000 INCHES INF =  
 .04000 INCHES PER HOUR  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER  
 METHOD - DT = .033330

K = .132811HR TP = .133300HR K/TP RATIO = .996335  
 SHAPE CONSTANT, N = 3.543441  
 UNIT PEAK = .85298 CFS UNIT VOLUME = .9842 B =  
 323.49 P60 = 2.0700  
 AREA = .000351 SQ MI IA = .50000 INCHES INF =  
 1.25000 INCHES PER HOUR  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER  
 METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 1.99242 INCHES = .1527 ACRE-FEET  
 PEAK DISCHARGE RATE = 3.97 CFS AT 1.500 HOURS BASIN  
 AREA = .0014 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 13:47:06



# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 6, 2003

Gregory J. Krenik, PE  
D. Mark Goodwin & Associates  
PO Box 90606  
Albuquerque, NM 87119

**RE: Carl's Jr. Drainage Report (L-22/D57)**  
**Engineer's Stamp Dated February 4, 2003**

Dear Mr. Krenik:

The above referenced grading and drainage plan received February 4, 2003 is approved for Site Development Plan for Building Permit. Prior to Building Permit approval, the following comments must be addressed:

- How will the southeast corner of the lot drain?
- Please address downstream capacity.
- Central has a storm drain in place. Why not direct most of the runoff to Central?
- An SO19 is required for proposed culverts. Please include the necessary SO19 notes and a duplicate plan for the City Storm Drain Maintenance Inspector.

If you have any questions please call me at 924-3982

Sincerely,

Carlos A. Montoya, PE  
City Floodplain Administrator

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

L-22 / DS7

PROJECT TITLE: <u>Carl's Jr - Four Hills</u>		ZONE MAP/DRB.FILE#: <u>L-22</u>
DRB#: _____	EPC# _____	WORK ORDER#: _____
LEGAL DESCRIPTION: <u>Western Portion of Tract A Four Hills Village Shopping Center and Apartment Complex</u>		
CITY ADDRESS: _____		
ENGINEERING FIRM: <u>Mark Goodwin &amp; Associates, PA</u>		CONTACT: <u>Gregory J. Krenik, PE</u>
ADDRESS: <u>P.O. Box 90606 Albuquerque NM 87119</u>		PHONE: <u>828-2200</u>
CITY, STATE: <u>Albuquerque NM</u>		ZIP CODE: <u>87119</u>
OWNER: <u>Carl's Jr. / co of Schlegel Lewis Architects</u>		CONTACT: <u>Jim Lewis</u>
ADDRESS: <u>1620 Central Avenue SE</u>		PHONE: <u>247-1529</u>
CITY, STATE: <u>Albuquerque, NM</u>		ZIP CODE: <u>87106</u>
ARCHITECT: <u>SCHLEGEL LEWIS ARCHITECTS</u>		CONTACT: <u>Jim Lewis</u>
ADDRESS: <u>1620 Central Avenue SE</u>		PHONE: <u>247-1529</u>
CITY, STATE: <u>Albuquerque, NM 87106</u>		ZIP CODE: <u>87106</u>
SURVEYOR: <u>N/A</u>		CONTACT: _____
ADDRESS: _____		PHONE: _____
CITY, STATE: _____		ZIP CODE: _____
CONTRACTOR: <u>N/A</u>		CONTACT: _____
ADDRESS: _____		PHONE: _____
CITY, STATE: _____		ZIP CODE: _____

## TYPE OF SUBMITTAL:

- ☒ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERTIFICATION (TCL)
- ☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

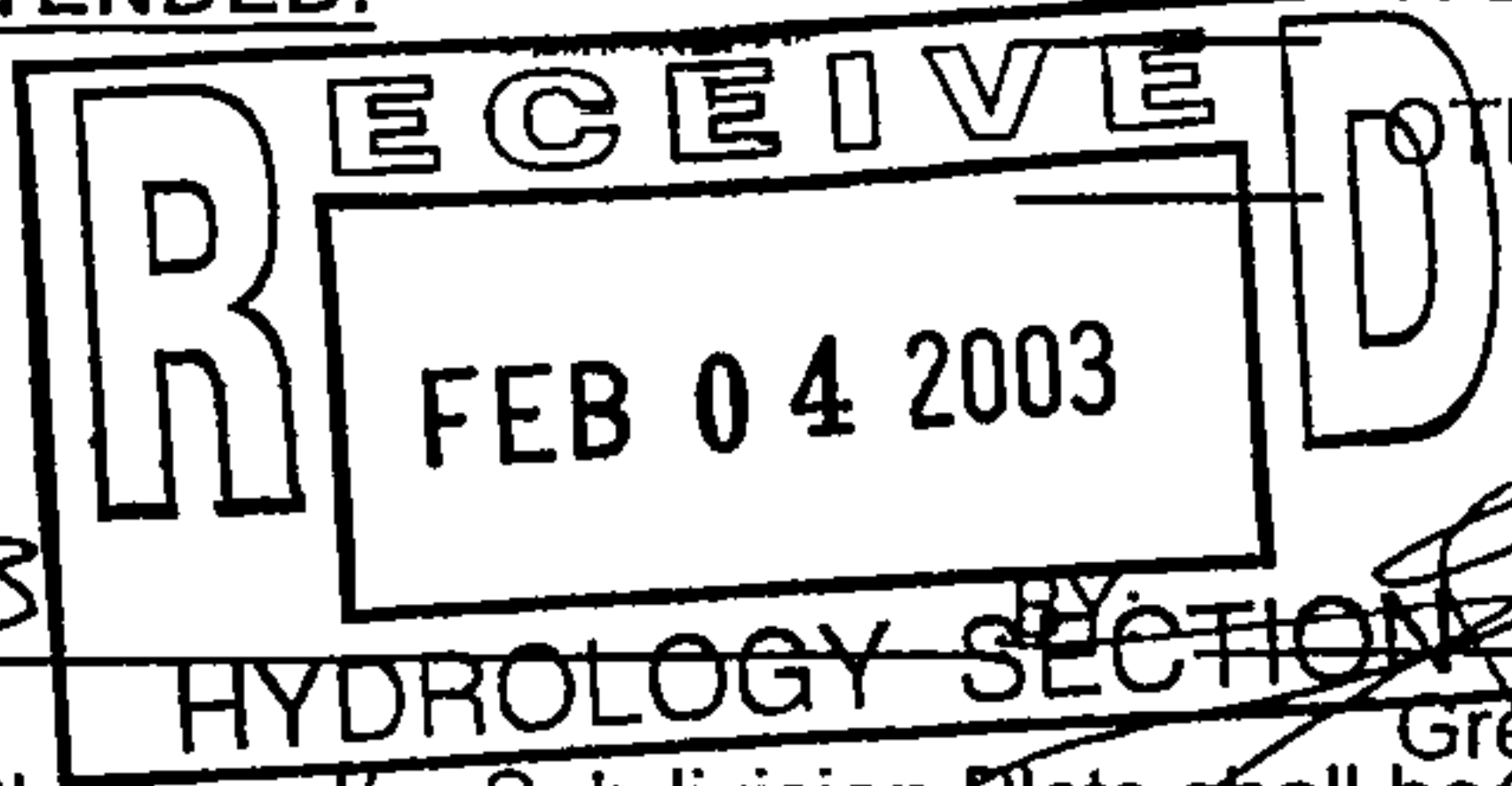
## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTY RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☒ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL

## WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: 2-4-03



OTHER (SPECIFY) \_\_\_\_\_

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of to the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5).
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5).
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.