

July 15, 1997

Martin J. Chávez, Mayor

Joe Kelley, P.E.  
Chavez-Grieves  
5639 Jefferson NE  
Albuquerque, NM 87109

**RE: MARRIOTT PARKING LOT REPAVING (J18-D1D). GRADING PLAN FOR PAVING PERMIT. JUNE 6, 1997.**

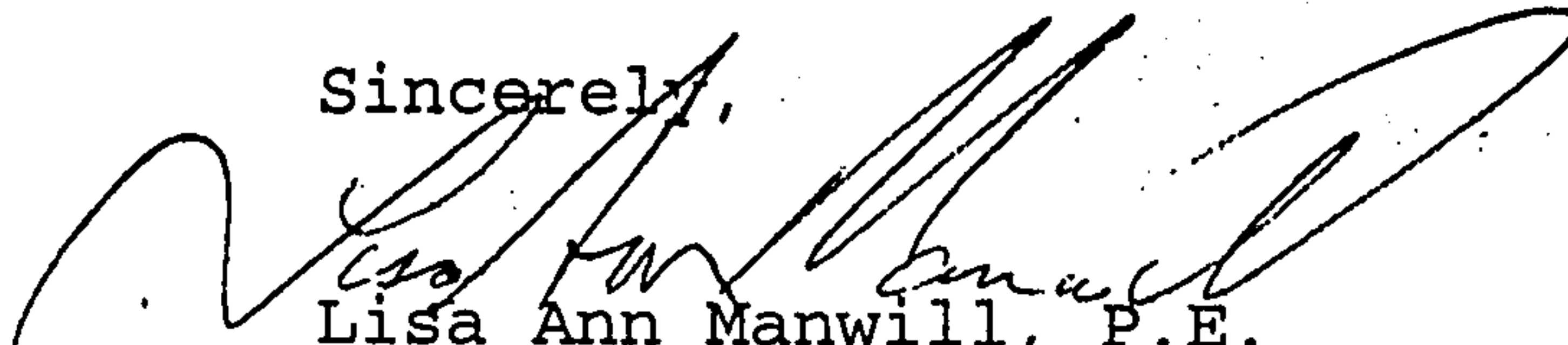
Dear Mr. Kelley:

Based on the information provided on your July 9, 1997 submittal, the above referenced project is approved for Paving Permit.

An Engineer's Certification will be required upon completion.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,



Lisa Ann Manwill, P.E.  
Engineering Assoc./Hyd.

c: Andrew Garcia  
File

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103





CITY OF  
Albuquerque  
Public Works Department  
June 18, 1997

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Joe Kelley, P.E.  
Chavez-Grieves  
5639 Jefferson NE  
Albuquerque, NM 87109

**RE: MARRIOTT PARKING LOT REPAVING (J18-D1D). GRADING PLAN FOR PAVING PERMIT. NO ENGINEER'S STAMP ON GRADING PLAN.**

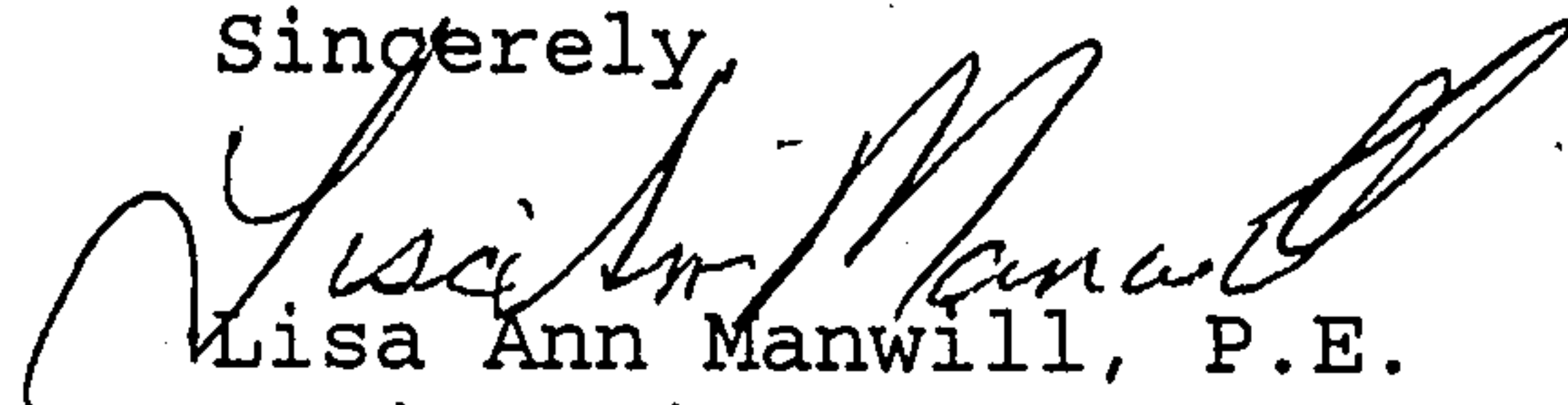
Dear Mr. Kelley:

Based on the information provided on your June 10, 1997 submittal, City Hydrology has the following comments:

1. Since you are adding some landscaping islands, I assume you are making some grade changes. Please identify the new islands on your plan and show grades.
2. Provide pre and post construction flow quantities.
3. An Engineer's stamp will be required on the grading plan.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,

  
Lisa Ann Manwill, P.E.  
Engineering Assoc./Hyd.

c: Andrew Garcia  
File

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



## DRAINAGE INFORMATION

PROJECT TITLE: Marriott Hotel Parking Lot Repaving ZONE ATLAS/DRNG. FILE #: J-18/D1D

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

LEGAL DESCRIPTION: Marriott Hotel

CITY ADDRESS: 2101 Louisiana NE

ENGINEERING FIRM: Chavez-Grieves

CONTACT: Joe Kelley

ADDRESS: 5639 Jefferson NE

PHONE: 344-4080

OWNER: \_\_\_\_\_

CONTACT: \_\_\_\_\_

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

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

ARCHITECT: Nims-Calvani

CONTACT: Stan Moore

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

PHONE: 255-6400

SURVEYOR: \_\_\_\_\_

CONTACT: \_\_\_\_\_

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

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

CONTRACTOR: \_\_\_\_\_

CONTACT: \_\_\_\_\_

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

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

### TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☒ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER

### PRE-DESIGN MEETING:

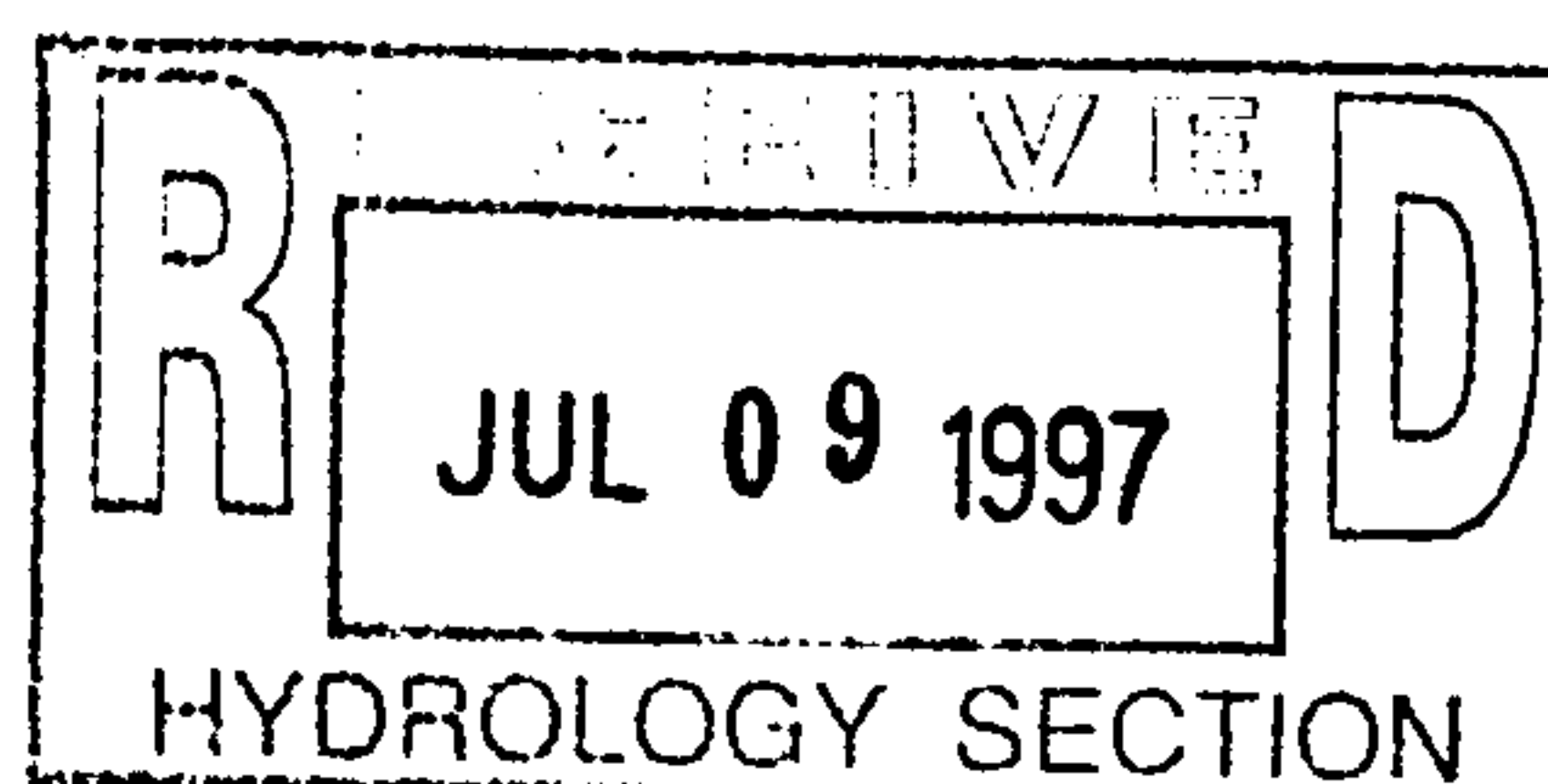
- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: July 9, 1997

BY: Joe Kelley

### CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PRMT. APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☒ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ OTHER





5639 JEFFERSON STREET NE · ALBUQUERQUE, NEW MEXICO 87109 · PHONE (505) 344-4080 · FAX (505) 343-8759

July 9, 1997

Ms. Lisa Manwill, P.E.  
City Hydrology  
P.O. Box 1293  
Plaza Del Sol Building  
Albuquerque, NM 87103

**RE: MARRIOTT PARKING LOT RE-PAVING (J18-D1D)**  
**C-G PROJECT NUMBER: NO2-141-5197**

Dear Ms. Manwill:

We are re-submitting this plan for paving permit approval. Your comments of June 18, 1997 have been addressed as follows:

1. There are no new islands, just existing islands as shown on the drawing. I believe your comment is made in reference to my statement in my original cover letter that a couple of planters are going to be added as part of this project. I have since learned that the planters, which were going to be installed in the vicinity of the entry way concrete (keyed note 8) have been removed from the project.
2. Pre and post construction flow amounts are the same, and the calculations are attached.
3. Engineer's stamp is included.

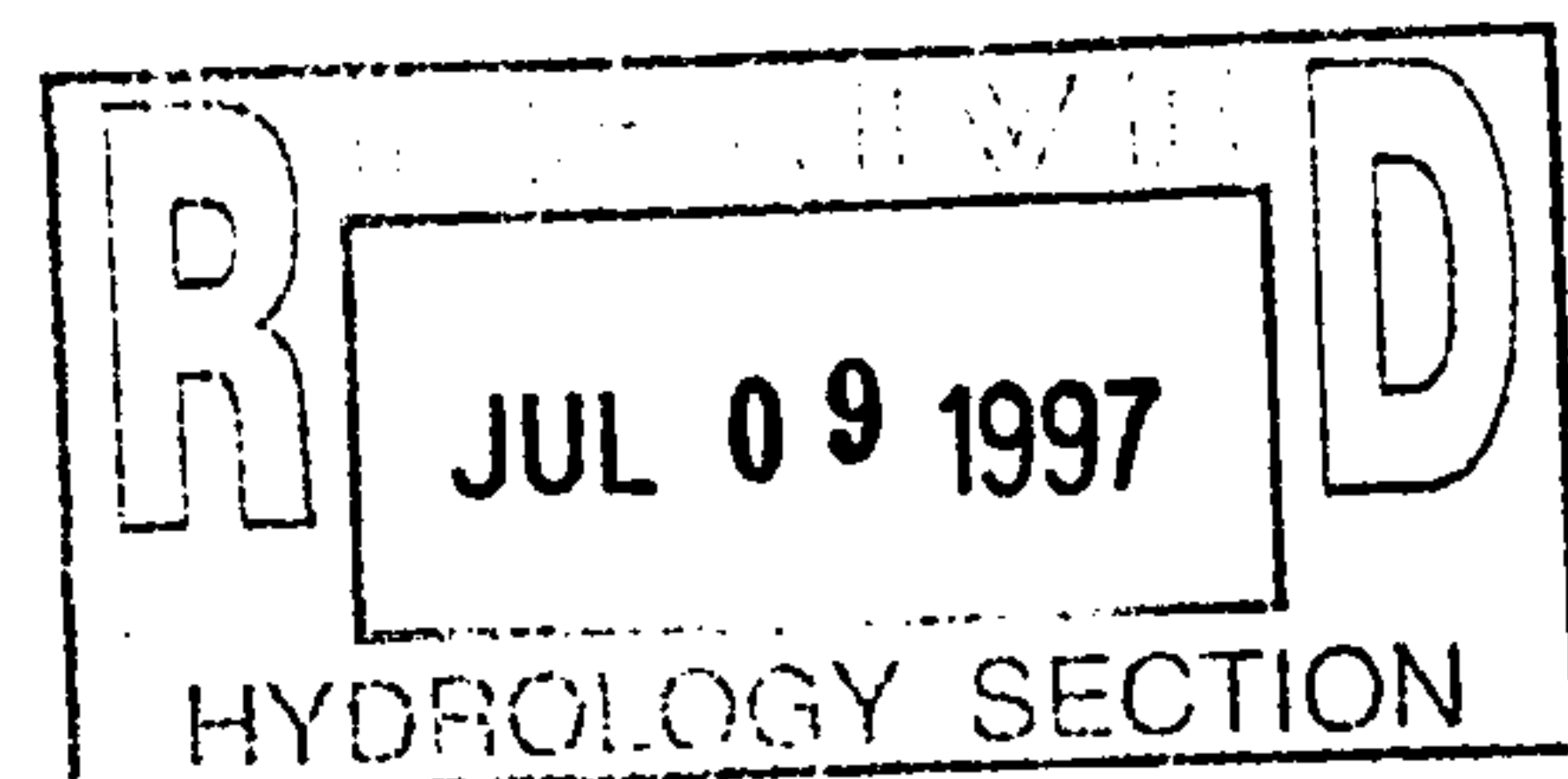
Should you have any questions prior to approving this re-paving project, please let me know.

Sincerely

CHAVEZ-GRIEVES CONSULTING ENGINEERING, INC.

Joe P. Kelley, P.E.  
Senior Engineer

Cy: Benny McMillan  
Stan Moore, Nims-Calvani





**CHAVEZ - GRIEVES / CONSULTING ENGINEERS, Inc.**5639 Jefferson Street NE, Albuquerque, New Mexico 87109Phone (505) 344-4080 - Fax (505) 343-8759**RUNOFF CALCULATIONS - SIMPLIFIED PROCEDURE**By: Joe KelleyDate: 7-9-97Project: Marriott Hotel Parking Lot RepavingZone Atlas: J-18

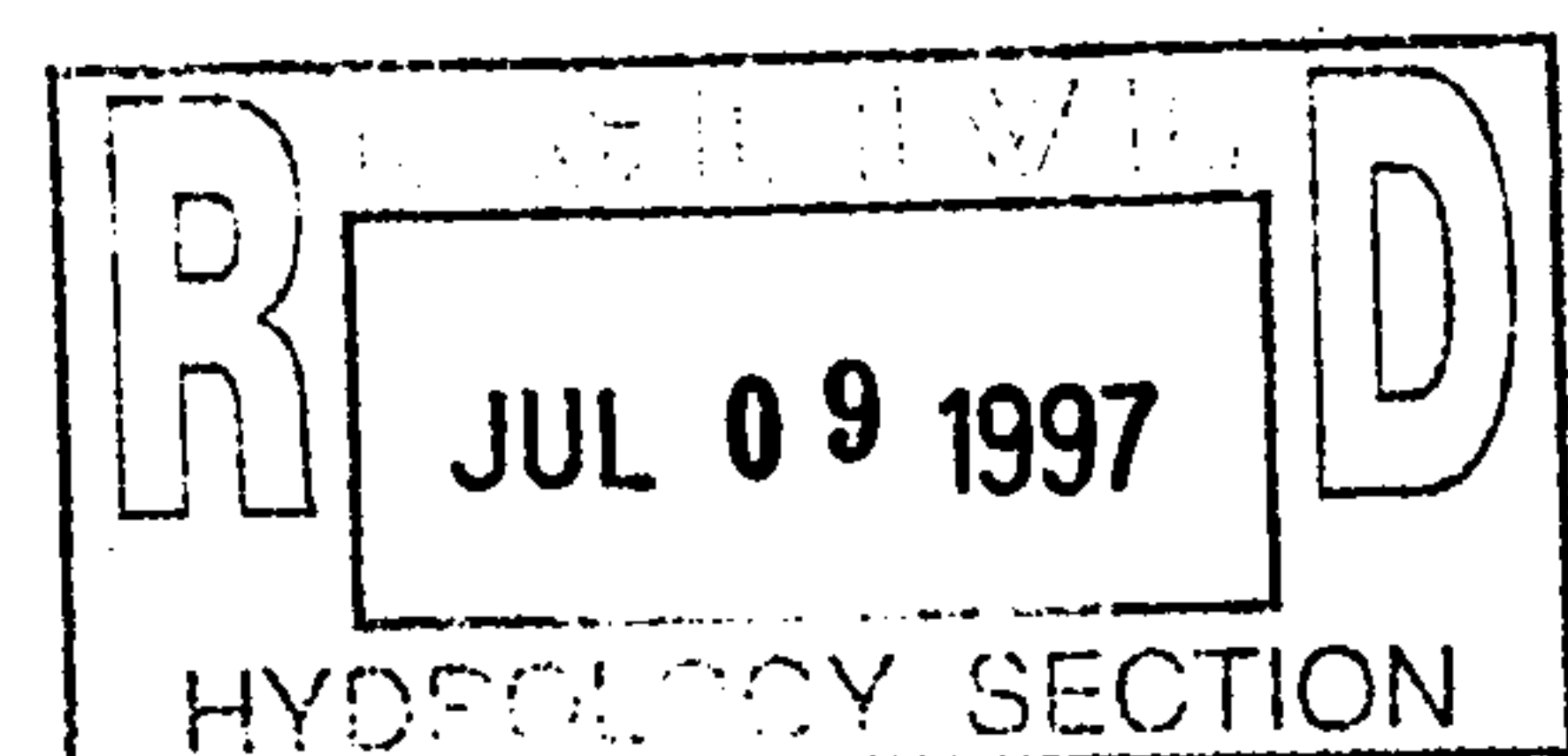
This procedure is in accordance with the City of Albuquerque Development Process Manual, Volume 2, Section 22.2, "Hydrology", peak discharge rate for small watersheds less than forty acres in size.

Precipitation Zone from Figure A-1: 3

Land treatment descriptions are in Table A-4.

**1. RUNOFF RATE COMPUTATION**Use Equation a-10:  $Q_P = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$ Values of  $Q_{pi}$  are from Table A-9, and are in CFS/acre. Area values are in acres.

BASIN	$Q_{PA}$	$A_A$	$Q_{PB}$	$A_B$	$Q_{PC}$	$A_C$	$Q_{PD}$	$A_D$	$Q_P$
<b>EXISTING RATE OF RUNOFF (CFS)</b>									
On-Site	1.87	0	2.6	1.02	3.45	0.00	5.02	5.56	30.56
<b>DEVELOPED RATE OF RUNOFF (CFS)</b>									
On-Site	1.87	0	2.6	1.02	3.45	0.00	5.02	5.56	30.56



## 2. RUNOFF VOLUME COMPUTATION

Use Equation a-5 to compute weighted excess precipitation:

$$\text{Weighted E} = \text{"E"} = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / (A_A + A_B + A_C + A_D)$$

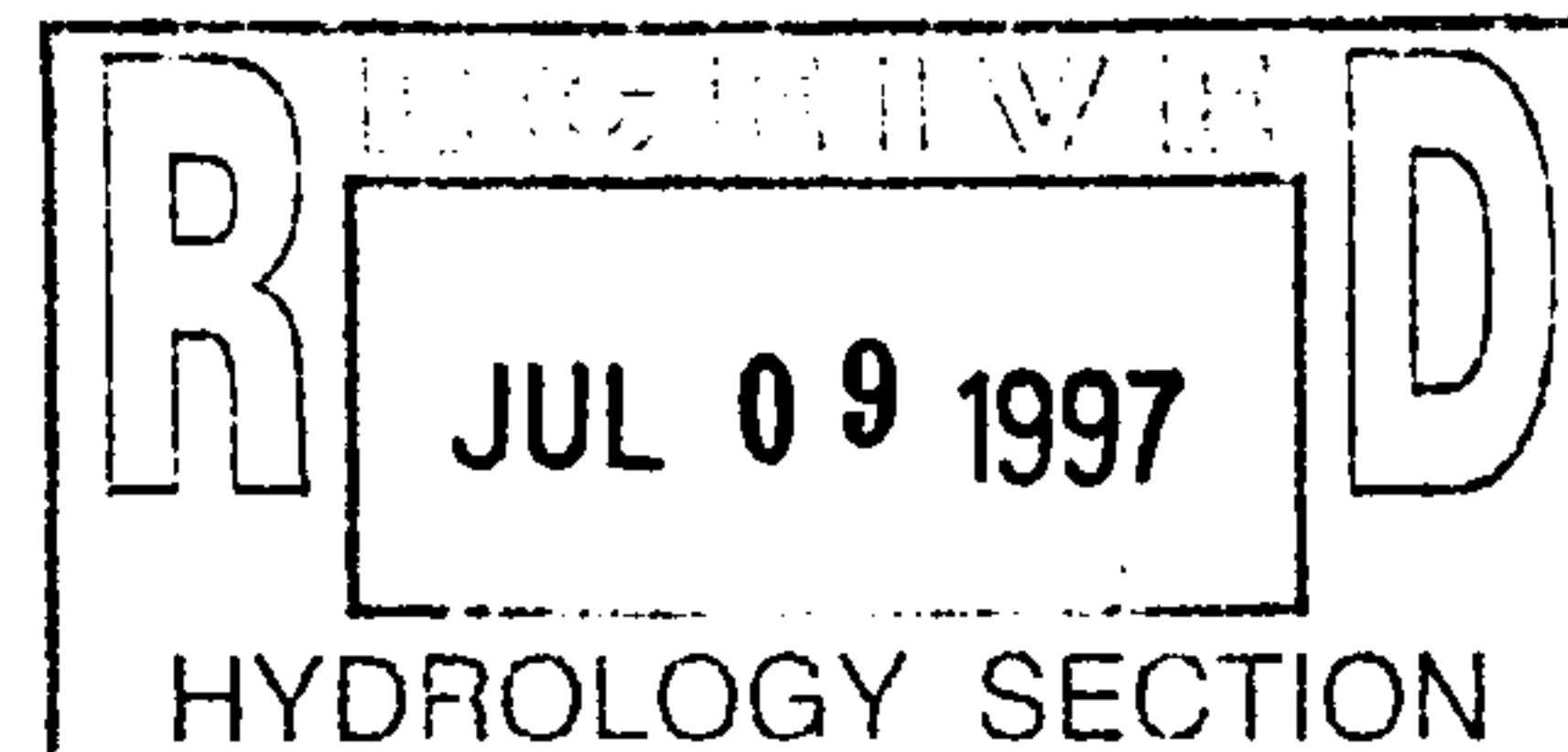
$$(A_A + A_B + A_C + A_D) = \sum A_i$$

Use Equation a-6 to compute the volume:

$$V_{360} = \text{"E"} \times (A_A + A_B + A_C + A_D) \times 3630 \text{ feet}^3/\text{acre} \cdot \text{inch}$$

Values of  $E_i$  are from Table A-8, and are in inches. Area values are in acres.

BASIN	$E_A$	$A_A$	$E_B$	$A_B$	$E_C$	$A_C$	$E_D$	$A_D$	$\sum A_i$	"E"	$V_{360}$
<b>EXISTING VOLUME OF RUNOFF (CUBIC FEET)</b>											
On-Site	0.66	0.00	0.92	1.02	1.29	0.00	2.36	5.56	6.58	2.14	51038
<b>DEVELOPED VOLUME OF RUNOFF (CUBIC FEET)</b>											
On-Site	0.66	0.00	0.92	1.02	1.29	0.00	2.36	5.56	6.58	2.14	51038



## DRAINAGE INFORMATION

PROJECT Marriott Parking Lot Repaving ZONE ATLAS/DRNG. FILE #: J-18 / DID

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

LEGAL DESCRIPTION: Section 13, Township 10 North, Range 3 East, New Mexico Principal Meridian

CITY ADDRESS: 2101 Louisiana Boulevard, NE Albuquerque, New Mexico

ENGINEERING FIRM: CHAVEZ-GRIEVES CONTACT: JOE P. KELLEY

ADDRESS: 5639 JEFFERSON NE PHONE: 344-4080

OWNER: Marriott Hotels Resort CONTACT: \_\_\_\_\_

ADDRESS: 2101 Louisiana Blvd. NE Albuq New Mexico PHONE: \_\_\_\_\_

ARCHITECT: Nims Calvani & Associates CONTACT: \_\_\_\_\_

ADDRESS: 525 San Pedro Dr. NE PHONE: \_\_\_\_\_

SURVEYOR: CHAVEZ-GRIEVES ENGINEERING CONTACT: \_\_\_\_\_

ADDRESS: 5639 JEFFERSON NE PHONE: \_\_\_\_\_

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

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

### TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☒ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER

### PRE-DESIGN MEETING:

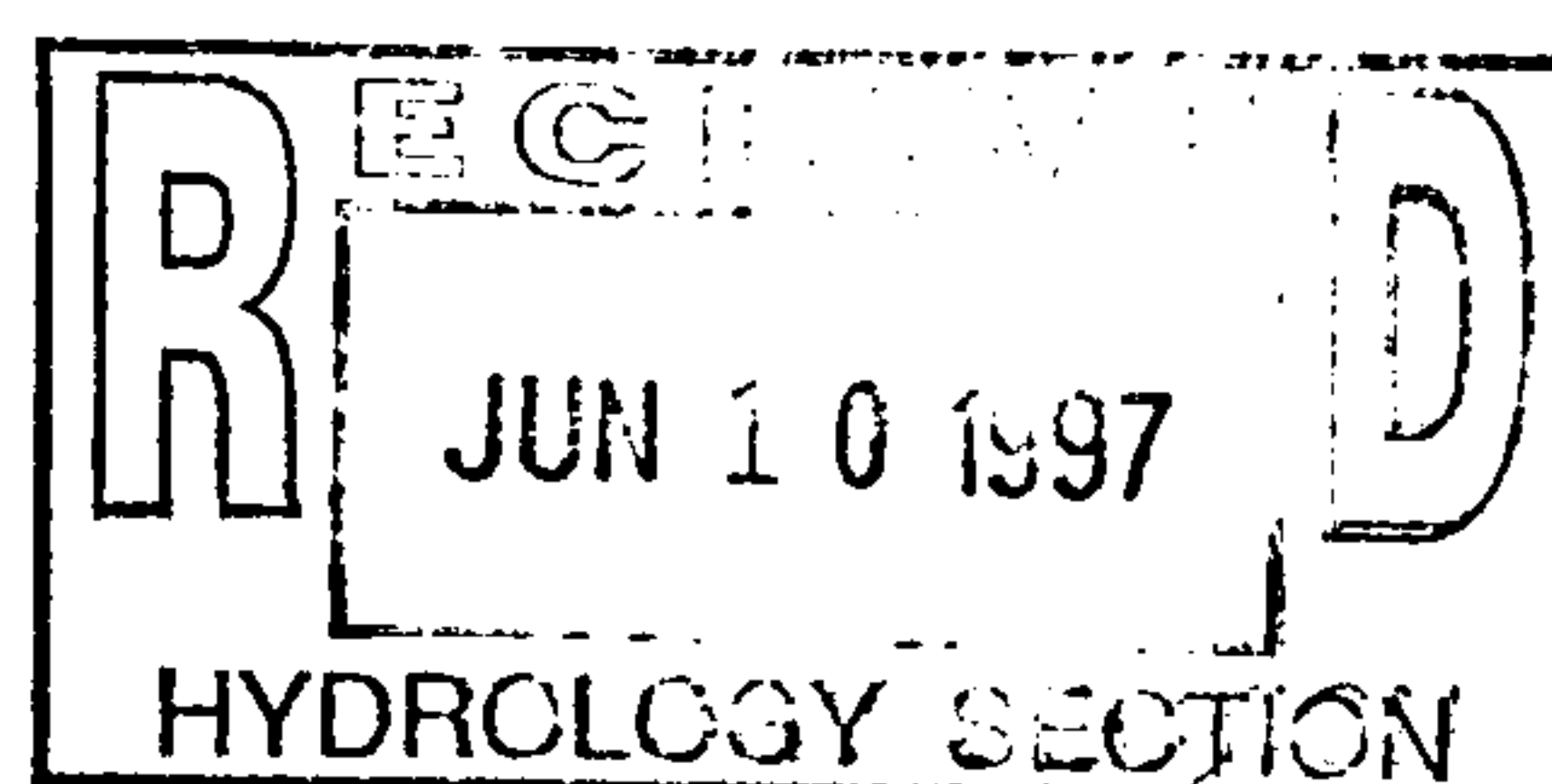
- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

### CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
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- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☒ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: June 6, 1997

BY: JERRIE L. MARTINEZ





5639 JEFFERSON STREET NE • ALBUQUERQUE, NEW MEXICO 87109 • PHONE (505) 344-4080 • FAX (505) 343-8759

June 6, 1997

City Hydrology  
P.O. Box 1293  
Plaza Del Sol Building  
Albuquerque, NM 87103

RE: MARRIOTT PARKING LOT RE-PAVING  
C-G PROJECT NUMBER: NO2-241-5197

Dear Sir or Madam:

We are submitting this plan for paving permit approval. This plan includes the removal and replacement or overlay of the existing parking lots that serve this hotel. There will be a slight decrease in the amount of impervious area, as a couple of additional planters will be added as part of the paving project. Therefore, there will be a slight decrease in the amount of runoff from this site.

We have not performed any drainage calculations because there is no increase in impervious area and therefore, no increase in runoff from the site as result of this project. This site discharges directly to a storm drain facility that accesses an AMFCA channel; there are no downstream drainage problems between this site and the drainage channel.

Should you have any questions prior to approving this re-paving project, please let me know.

Sincerely

CHAVEZ-GRIEVES CONSULTING ENGINEERING, INC.

Joe P. Kelley, P.E.  
Senior Engineer

Cy: Benny McMillian  
Kevin Juno, Nims Calvani

