

DRAINAGE INFORMATION SHEET

PROJECT TITLE: CADENA RESIDENCE ZONE ATLAS/DRNG. FILE #: C-20/D027
 DRB #: EPC #: WORK ORDER #:
 LEGAL DESCRIPTION: LOT 10 BLK 3 TR 3 UNIT 3 NAA
 CITY ADDRESS: 8800 OAKLAND AVE NE

ENGINEERING FIRM: Brasher & Lorenz, Inc. CONTACT: Dennis A. Lorenz
2201 San Pedro NE Bldg. 1 Suite 210
 ADDRESS: Albuquerque, New Mexico 87110 PHONE: 888-6088

OWNER: DEE CADENA CONTACT: SAME
 ADDRESS: 8204 EAGLE ROCK NE PHONE: 797-4063

ARCHITECT: NA CONTACT:
 ADDRESS: PHONE:

SURVEYOR: ENGINEER CONTACT:
 ADDRESS: PHONE:

CONTRACTOR: NA 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:

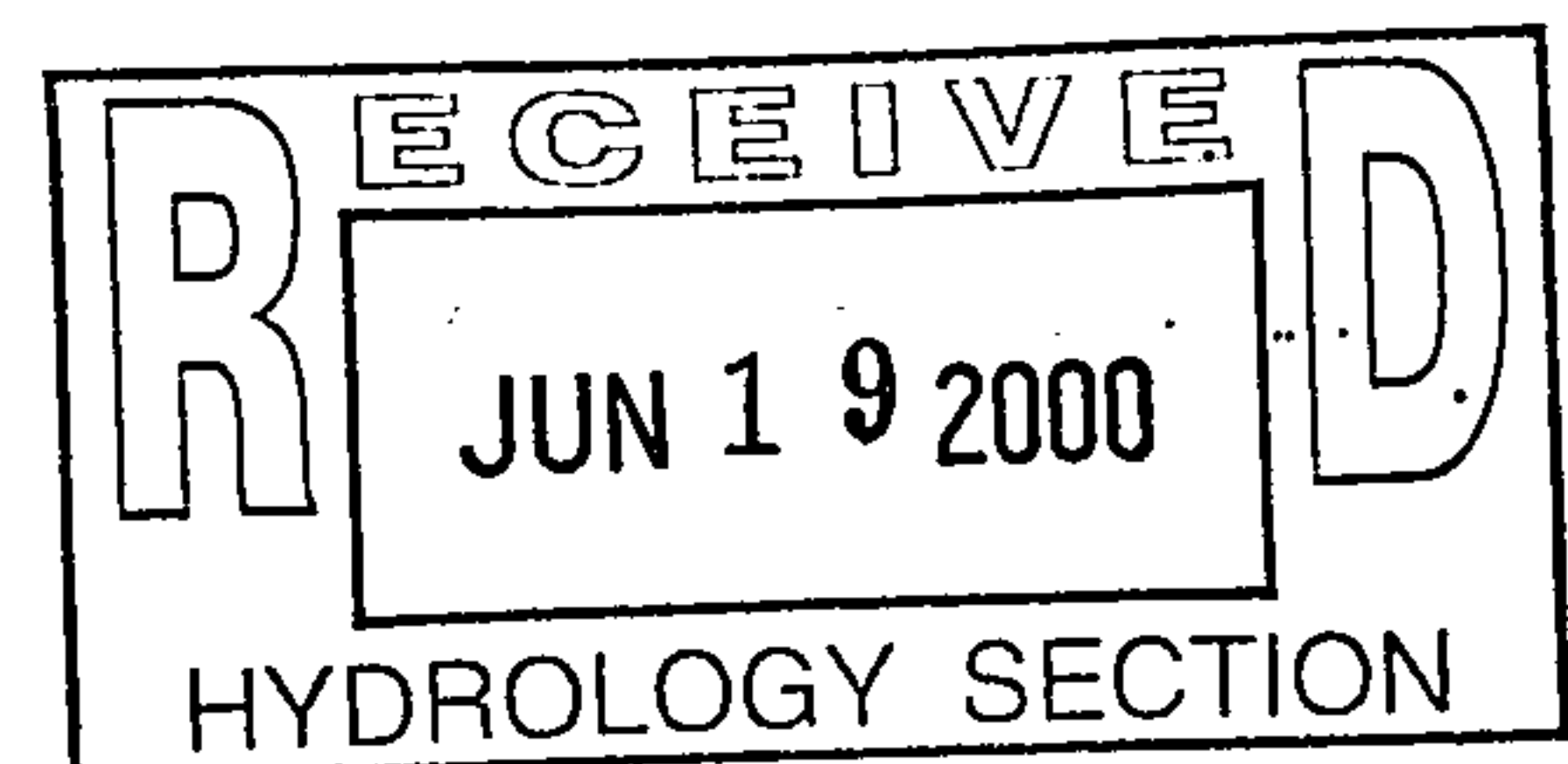
- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

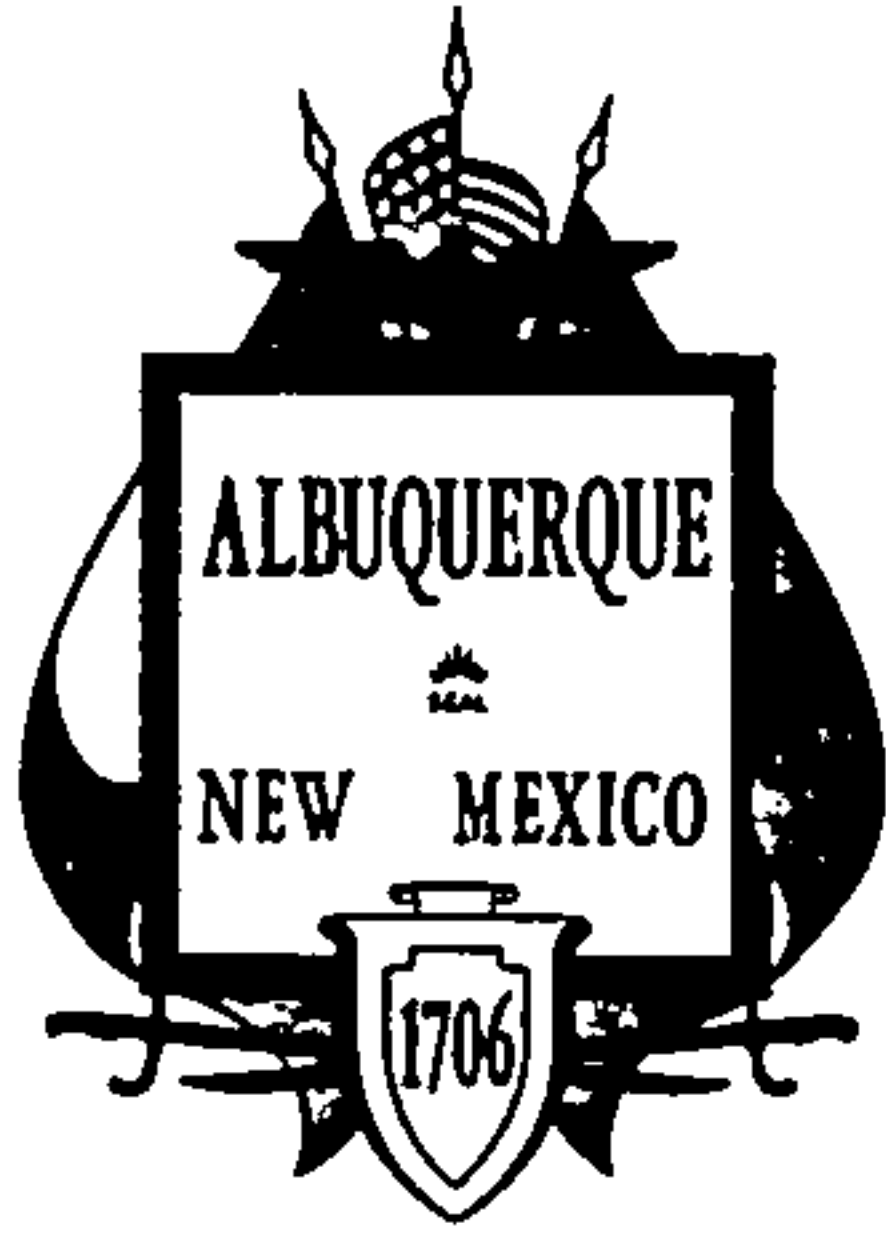
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT 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 (SPECIFY)

ATTN: SUSAN CALONGNE

DATE SUBMITTED: 6.14.00
 BY: Dennis A. Lorenz





City of Albuquerque

June 30, 2000

Dennis A. Lorenz, P.E.
Brasher & Lorenz, Inc.
2201 San Pedro NE, Building 1, Suite 210
Albuquerque, New Mexico 87110

RE: *Grading and Drainage Plan for Cadena Residence, Lot 10, Block 3, Tract 3, Unit 3, NAA, (C20/D27) Submitted for Building Permit Approval, Engineer's Stamp Dated 6/16/00.*

Dear Mr. Lorenz:

Based on the information provided, the above referenced plan is approved for Building Permit release.

As you are aware, the Engineer's Certification is required prior to release of the Certificate of Occupancy for this residence.

If you have any questions, or if I may be of further assistance to you, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E.
City/County Floodplain Administrator

c: Dee Cadena, Owner
 Whitney Reiersen, City Hydrology
 File

SUPPLEMENTAL CALCULATIONS

FOR

CADENA RESIDENCE

Albuquerque, New Mexico

Prepared by:

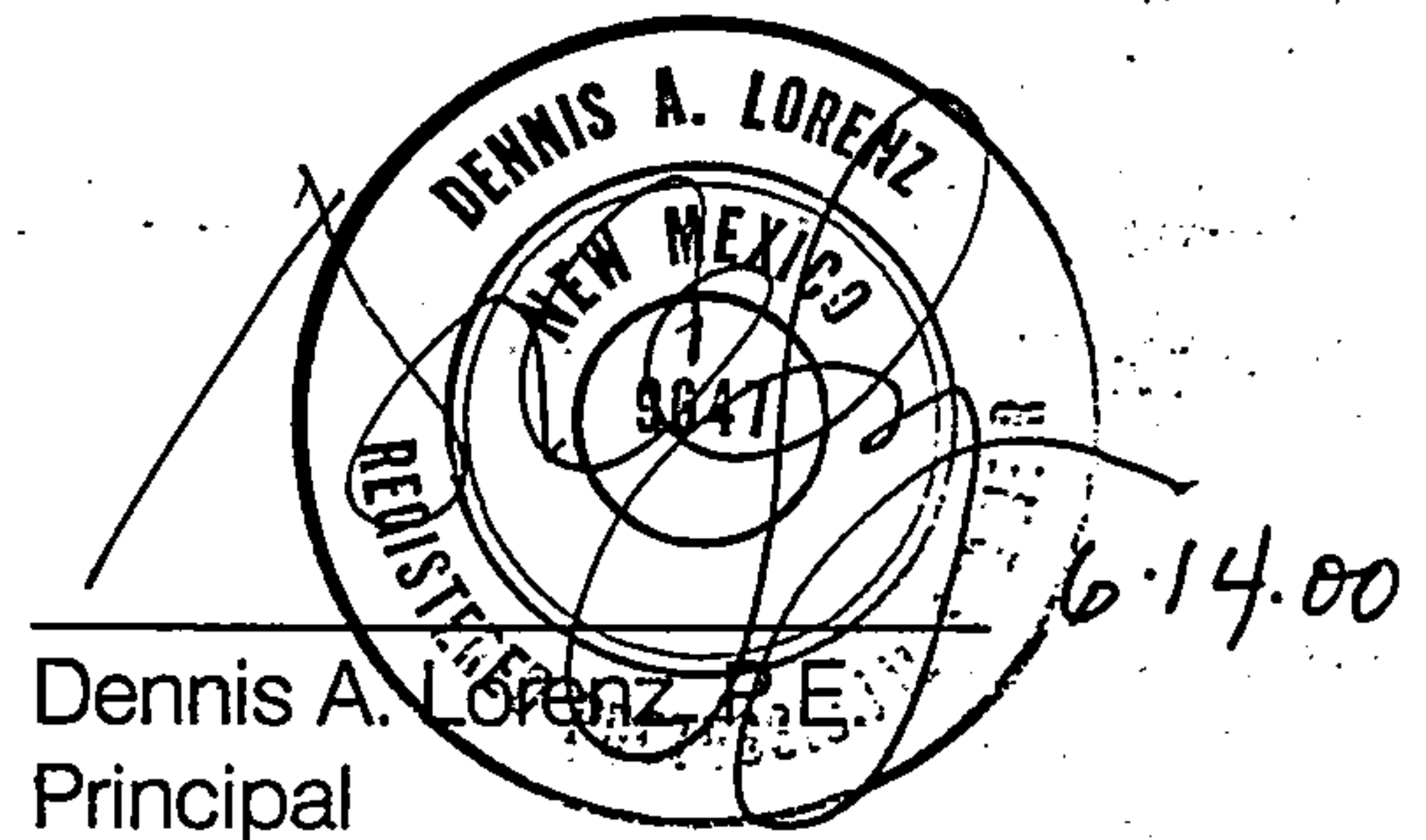
BRASHER & LORENZ, INC.

Consulting Engineers

2201 San Pedro NE Building 1, Suite 220

Albuquerque, New Mexico 87110

June 2000



CADENA	6.14.00	1/
EROSION SETBACK	00528	

PER "SEDIMENT AND EROSION DESIGN
GUIDE" RCE MARCH 1994:

LA CUEVA ARROYO

@ VENTURA $Q_{100} \text{ DEV} = 3709 \text{ CFS}$

$$Q_d = 0.2 Q_{100} = 741.8 \text{ CFS}$$

$$S_c = 0.037 Q_d^{-0.133} = 0.0154 < S$$

⇒ SUPER CR FLOW

$$W_d = 4.6 Q_d^{0.4} = 64.7'$$

$$\Delta_{MAX} = [0.92 + 4.6 \log Q_d] Q_d^{0.4} = 198.6'$$

$$CSB = \Delta_{MAX} + 0.5 W_d = \underline{\underline{230.9'}}$$

LEGEND

2 AVULSION NUMBER

⑬ BLOCK NUMBER

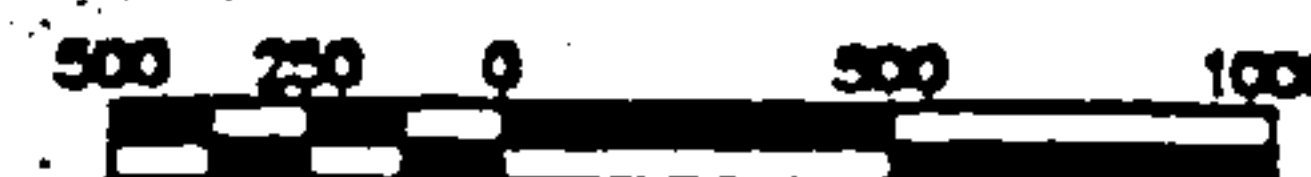
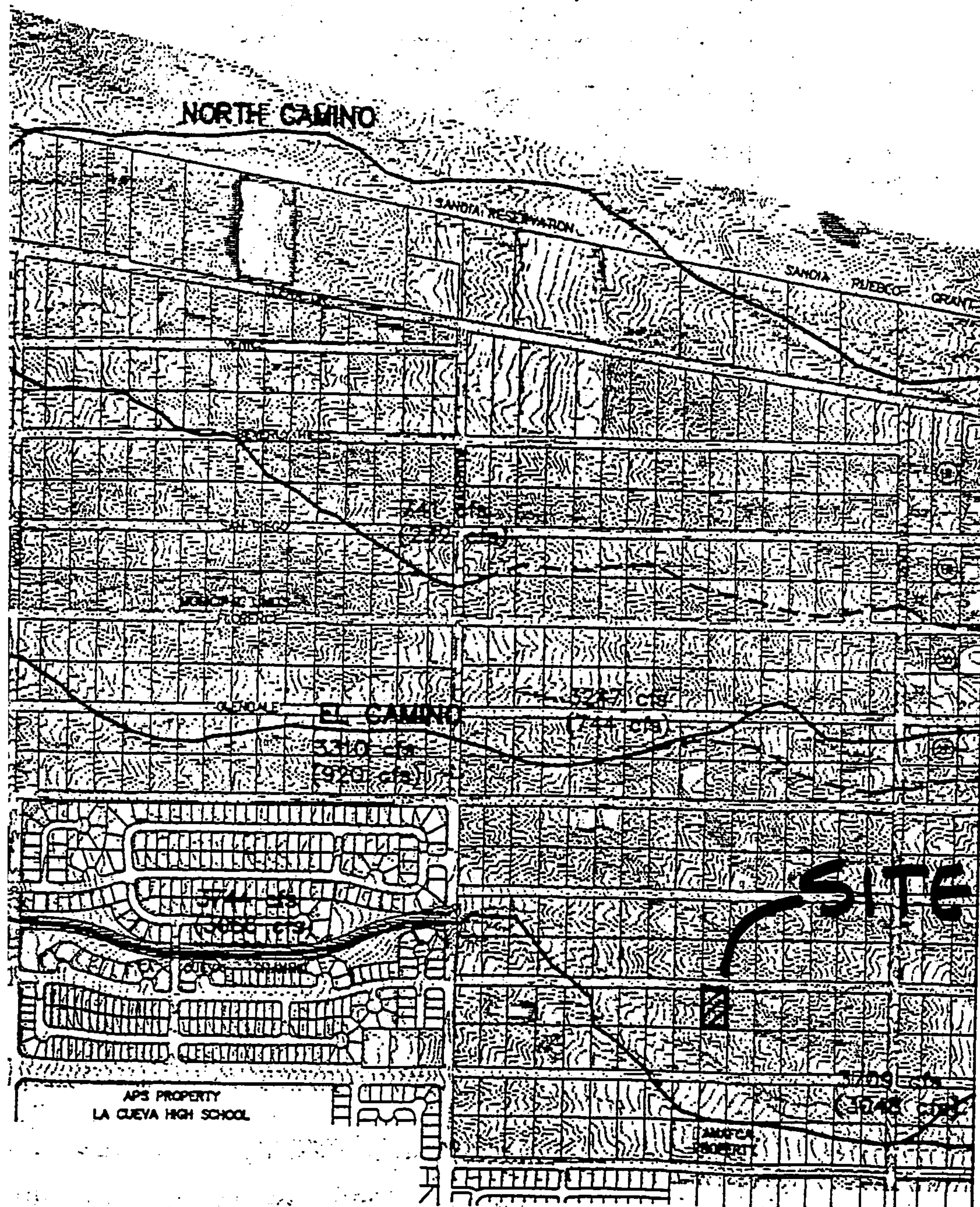
1 LOT NUMBER

— EXISTING ARROYO FLOWLINE

- - - POTENTIAL AVULSION FLOW PATH

1890 cfs WORST CASE FLOW RATE - FUTURE CONDITION

(744 cfs) FUTURE CONDITION FLOW RATE WITH AVULSION CONTROL



SCALE: 1" = 500'

Resources Technology, Inc.
ENGINEERING & CONSTRUCTION SERVICES
CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, & PLUMBING
2000 GARDEN AVENUE, SUITE 200, ALBUQUERQUE, NEW MEXICO 87102
TELEPHONE: (505) 262-1000



ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: LA CUEVA, EL CAMINO AND NORTH CAMINO ARROYOS DRAINAGE MANAGEMENT PLAN

FIGURE 3A

FUTURE CONDITION FLOW RATES

PROJECT NO.

95-100

MAP NO. B-CR20

SHEET OF