

# DRAINAGE INFORMATION SHEET

PROJECT TITLE: RESIDENCE 1506 EAGLE RIDGE RD., N.E. ZONE ATLAS/ DRNG. FILE #: D-23-7040  
 DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_  
 LEGAL DESCRIPTION: LOT 1506, UNIT 15, SANDIA HEIGHTS SOUTH  
 CITY ADDRESS: 1506 EAGLE RIDGE ROAD, N.E., ALBUQUERQUE, NM  
 ENGINEERING FIRM: C.A. COONCE & ASSOC. CONTACT: C.A. COONCE  
 ADDRESS: 12324 PINERIDGE, N.E. PHONE: 296-1089  
 OWNER: CHARLES HENNINGS CONTACT: CHARLES HENNINGS  
 ADDRESS: 2501 TRAMWAY TERRACE CT., N.E. PHONE: 856-1188  
 ARCHITECT: BILL JOHNSON & ASSOC. CONTACT: BILL JOHNSON  
 ADDRESS: 3500 COMANCHE, BLDG. A, STE. 2 PHONE: 888-8885  
 SURVEYOR: CONSURVE CONTACT: JERRY NICKELS  
 ADDRESS: SAN FIDEL, NM PHONE: (505) 552-9898  
 CONTRACTOR: HENNINGS HOMES CONTACT: CHARLES HENNINGS  
 ADDRESS: 2501 TRAMWAY TERRACE CT., N.E. PHONE: 856-1188

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)

DATE SUBMITTED: 04/25/94 12/8/94  
 BY: C.A. COONCE

DEC 12 1994



D23/D40

**BOARD OF COUNTY COMMISSIONERS**

**EUGENE M. GILBERT, CHAIRMAN**  
DISTRICT 3

**JACQUELYN SCHAEFER, VICE CHAIR**  
DISTRICT 5

**PATRICK J. BACA, MEMBER**  
DISTRICT 1

**ALBERT "AL" VALDEZ, MEMBER**  
DISTRICT 2

**BARBARA J. SEWARD, MEMBER**  
DISTRICT 4

**JUAN R. VIGIL, COUNTY MANAGER**

# County of Bernalillo

State of New Mexico

2400 BROADWAY S.E.  
ALBUQUERQUE, NEW MEXICO 87102

**MARK J. CARRILLO, ASSESSOR**  
**JUDY D. WOODWARD, CLERK**  
**THOMAS J. MESCALL, PROBATE JUDGE**  
**RAY GALLAGHER, SHERIFF**  
**H. R. FINE, TREASURER**

Date: 28-DEC-94

Subject: Submittal

Case No.: PWD-94-288

Zone Map No.: D-23

Street Address: 1506 EAGLE RIDGE RD NE

Legal Description: LT.1506 SANDIA HEIGHTS SOUTH UNIT 15

Name of Applicant: C.A. Coonce & Assoc.

Dear Applicant:

Bernalillo County Public Works Department will require **TWO WEEKS for review and comment of submittal and resubmittals, and ONE WEEK for final review and plat sign-off.** Major submittals may require more than two weeks for review and comment.

The issuance of a permit or a review or approval of plan specifications, computations, and shop drawings shall not be interpreted to be a permit for or an approval of any variance or violation of any of the provisions of any County or State codes, ordinances, standards, or policies. Nor shall such issuance of a permit or approval of plans, specifications, computations, and shop drawings prevent any authorized County representative or County inspector from thereafter requiring the correction of errors in said plans, specifications, computations, or shop drawings or from stopping construction operations which are being carried on thereunder when in violation of any County or State codes, ordinances, standards, or policies.

Review of construction plans, specifications, computations, and shop drawings is only for general conformance with the design concept of the project and general compliance with the plans and specifications and shall not be construed as relieving the Contractor, Land Divider, Subdivider, Engineer/Surveyor, or applicant of the full responsibility for: providing materials, equipment, and work required by the contract; the proper fitting and construction for the work; the accuracy and completeness of the submittal; selecting fabrication processes and techniques of construction; and performing the work in a safe manner.

REV 4-22-91 BR

COUNTY OF BERNALILLO  
APPLICATION FOR CASE REVIEW

Please complete pages one and two of this application for review of your case. Submit **THREE** blueines of plat, drawings, or information with case submittals and **THREE** blueines of plat, drawings, or information along with the original mylar for final sign-off applications. Submit a County Zone Atlas Map with subject property marked on the map. If a Grading and Drainage plan is not included with a land division, replat, or conceptual plan, please submit one 8.5"x11" photocopy of a USGS quad map with the subject property superimposed.

**NOTE: INCOMPLETE APPLICATIONS WILL BE RETURNED WITHOUT REVIEW.**

**1. APPLICANT INFORMATION:**

a. Applicant is(check one):

☐ OWNER ☐ SURVEYOR ☒ AGENT  
☐ ENGINEER ☐ DRAINAGE ENGINEER

b. Date of this application: 13-DEC-94

c. Signature of applicant:

(print) \_\_\_\_\_ (sign) \_\_\_\_\_

d. OWNER: Charles Henning PHONE: 505-856-1188  
2501 Tramway Terrace Ct NE  
Albuquerque, NM

e. AGENT: C.A. Coonce and Assoc. PHONE: 505-296-1089  
12324 Pineridge NE  
Albuquerque, NM 87112

f. OTHER(specify): C.A. Coonce and Assoc. PHONE: 505-296-1089  
12324 Pineridge NE  
Albuquerque, NM 87112

**2. TYPE OF SUBMITTAL (check one):**

☐ REPLAT  
☐ LAND DIVISION (MINOR SUBDIVISION)  
☐ MAJOR SUBDIVISION  
☐ CONSTRUCTION DRAWINGS  
☒ GRADING/DRAINAGE PLAN  
☐ AS-CONSTRUCTED GRADING/DRAINAGE PLAN  
☐ VARIANCE REQUEST  
☐ TRAFFIC IMPACT ANALYSIS/TRAFFIC STUDY  
☐ INFRASTRUCTURE LIST/DESIGN REVIEW FEE  
☐ OTHER (specify): \_\_\_\_\_

Your: ☒ submittal of drainage information  
☐ resubmittal of drainage information

is: ☐ approved.  
☐ approved with comments/conditions.  
☒ disapproved.  
☐ deferred to County Floodplain Administrator

TO BE FILLED OUT BY  
COUNTY PUBLIC WORKS  
DEPARTMENT ONLY

Case review comments are:

☒ attached.  
☐ not attached.  
☐ not attached. See remarks below.

Resubmittal is:

☐ not required.  
☒ required. When resubmitting, please use Resubmittal Form.

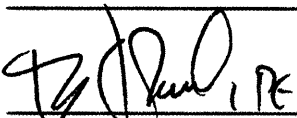
Please submit:

☐ three blueines of corrected plat incorporating case review comments.  
☐ original mylar and three blueines for final sign-off.  
☒ grading/drainage plan with revisions.  
☐ as-constructed grading/drainage plan.  
☐ infrastructure list and/or improvements agreement.  
☐ design review fee. (payments accepted at county finance dept.)  
☐ schedule a CRC meeting with Public Works. Tel. 848-1500.  
☐ other: \_\_\_\_\_

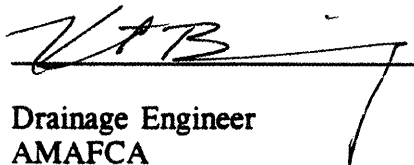
It is required that:

☐ Bernalillo County Public Works Department inspect improvements prior to final sign-off of plat.  
☐ Bernalillo County Public Works Department signature line be placed on plat.

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

 PE 12/22/94  
 Roger A. Paul, P.E.  
 Molzen-Corbin & Assoc., for  
 County Surface Water Hydrologist  
 Bernalillo County Public Works Department

Concur:

 PE 12-22-94  
 Drainage Engineer  
 AMAFCA

cc: ☐ Jack Cloud, DRB  
☐ County Planning  
☐ Raymond Quintana, County Building and Zoning  
☒ Owner: CHARLES HENNINGS  
☒ Agent: C.A. COONCE  
☒ Case File: PWD-94-208  
☒ AMAFCA  
☒ Susan Calongne, County Floodplain Administrator, COA  
☒ Molzen-Corbin & Associates  
☐ Other: \_\_\_\_\_

BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT  
CASE FILE COMMENTS

CASE NO: PWD-94-288

ZONE MAP NO.: D-23

REFERENCE CASES:

STREET ADDRESS: 1506 EAGLE RIDGE RD NE

LEGAL DESCRIPTION: LT.1506 SANDIA HEIGHTS SOUTH UNIT 15

COMMENTS OF:

13-DEC-94 DRAN: The floodplain Administrator has coordinated all comments and completed review of this re-submittal. It has been disapproved and a re-submittal will be required.

*DRP*  
*12/22/94*

## ENCROACHMENT EASEMENT AGREEMENT

THIS AGREEMENT is made and executed this 18 of October 1993, by and between ROGER L. CRONK and NANCY C. CRONK, husband and wife (hereinafter CRONK), and CHARLES A. HENNINGS and CHRISTINE A. HENNINGS, husband and wife, d/b/a HENNINGS HOMES, a sole proprietorship (hereinafter HENNINGS).

WITNESSETH:

WHEREAS, CRONK is the Owner of that certain real property being more particularly described as follows:

Lot #1505, Sandia Heights South, Unit 15, within projected Section 23 and 26, T11N, R4E, N.M.P.M., Bernalillo County, New Mexico, as the same is shown and designated on the plat of said Addition, filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 5, 1984.

(hereinafter Lot 1505; and

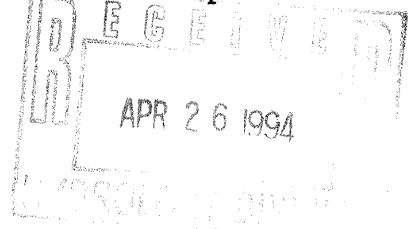
WHEREAS, HENNINGS is the Owner of that certain real property to the east of Lot 1505, described as follows:

Lot #1506, SANDIA HEIGHTS SOUTH, UNIT 15, within projected Section 23 and 26, T11N, R4E, N.M.P.M., Bernalillo County, New Mexico, as the same is shown and designated on the plat of said addition filed in the office of the County Clerk of Bernalillo County, New Mexico on June 5, 1984.

(hereinafter Lot 1506); and

WHEREAS, a curb and asphalt driveway for the benefit of CRONK presently encroaches upon Lot 1506 (hereinafter Improvement); and

WHEREAS, the parties hereto desire to enter into an easement agreement providing for the encroachment of said Improvement.



NOW, THEREFORE, in consideration of the above and other good and valuable consideration, the receipt of which is hereby acknowledged, it is agreed as follows:

1. The parties acknowledge that the Improvement which benefits Lot 1505 encroaches along Lot 1506 as shown on Exhibit "A", which is attached hereto and incorporated herein by reference.

2. HENNINGS does hereby grant unto CRONK an easement for the Improvement which encroaches upon Lot 1506.

3. CRONK agrees to maintain that portion of the Improvement encroaching upon Lot 1506 at its sole cost and expense, and in the event that any part of such encroachment shall be damaged or destroyed for any reason whatsoever, except through the negligence of HENNINGS, that CRONK will repair and rebuild the damaged Improvement with like or similar materials.

4. HENNINGS covenants that HENNINGS will not attempt to destroy or otherwise remove the Improvement for so long as any portion of the Improvement encroaches upon Lot 1506 and shall allow the same to remain as is, provided that nothing herein contained shall grant unto CRONK any rights under the law of adverse possession, and that CRONK expressly forfeits, waives and relinquishes any and all rights which CRONK might otherwise have now or hereafter may have against HENNINGS by virtue of the law of adverse possession.

5. This Agreement shall not have the effect to convey the fee title to any part of Lot 1506 to CRONK nor shall any part of

the fee title become vested in CRONK, their heirs, successors and assigns.

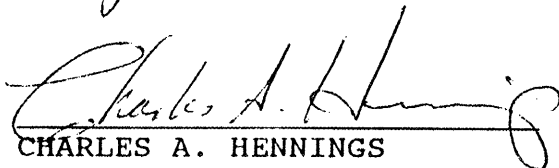
6. CRONK shall indemnify and hold HENNINGS, their heirs, successors and assigns harmless from all claims for personal injury or property damage related to the Improvement and not caused by HENNINGS own actions, negligence or misconduct.


7. It is mutually agreed by the parties that this Agreement shall be perpetual and at all times shall be deemed to run with the land to bind the heirs, successors, assigns and personal representatives of the respective parties hereto.

IN WITNESS WHEREOF, the undersigned have hereunto set their hands and seals the day and year first above written.

  
\_\_\_\_\_  
ROGER L. CRONK

  
\_\_\_\_\_  
NANCY C. CRONK

  
\_\_\_\_\_  
CHARLES A. HENNINGS

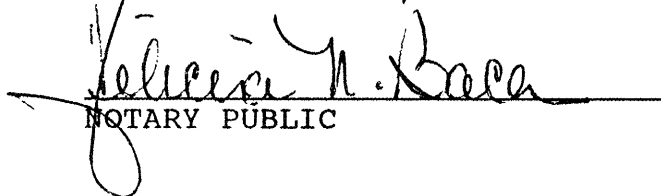
  
\_\_\_\_\_  
CHRISTINE A. HENNINGS

STATE OF NEW MEXICO )  
                                  )  
COUNTY OF BERNALILLO)

This instrument was acknowledged before me this 18<sup>th</sup> day of October, 1993, by ROGER L. CRONK and NANCY C. CRONK, husband and wife.

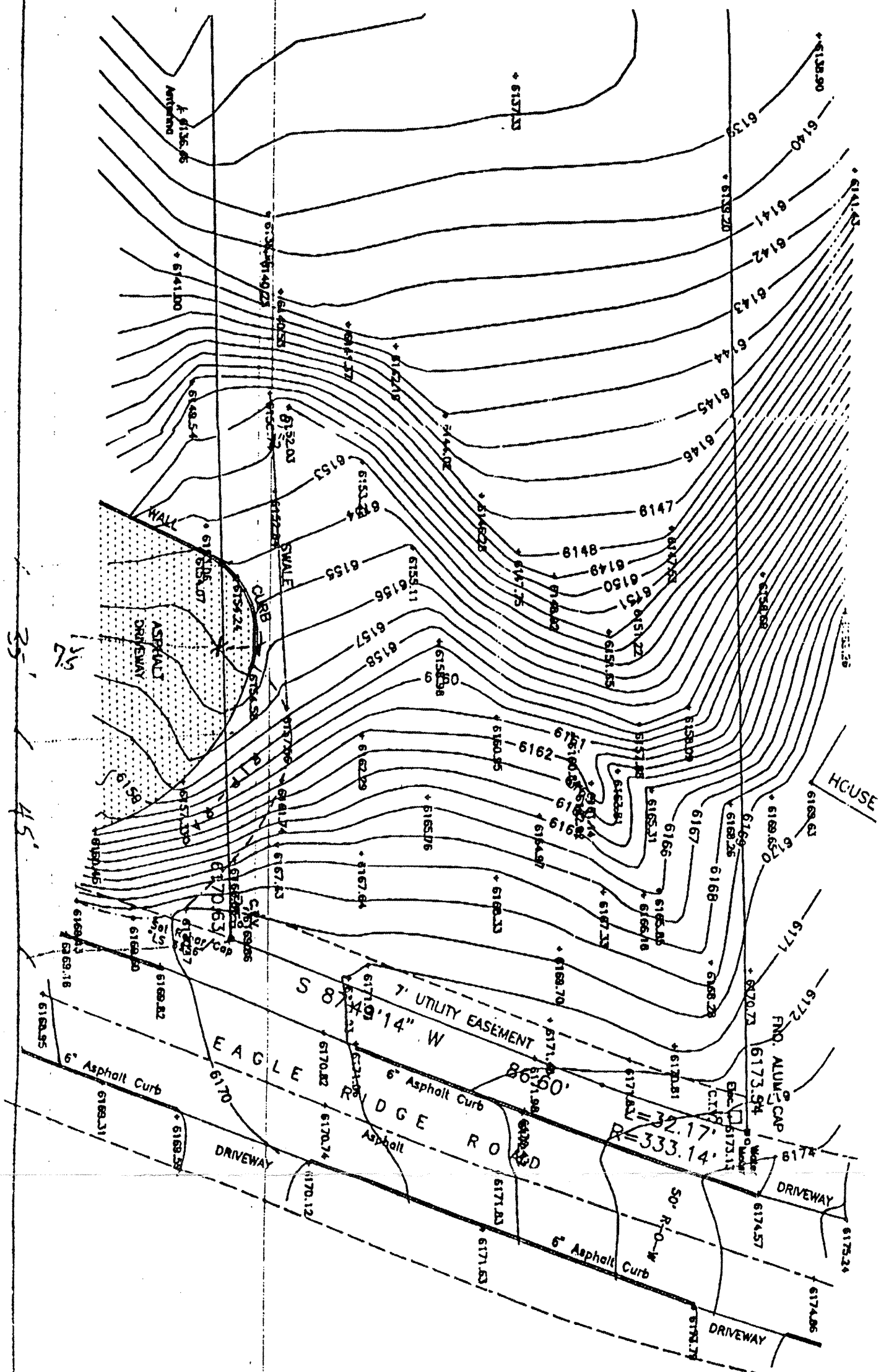
MY COMMISSION EXPIRES:

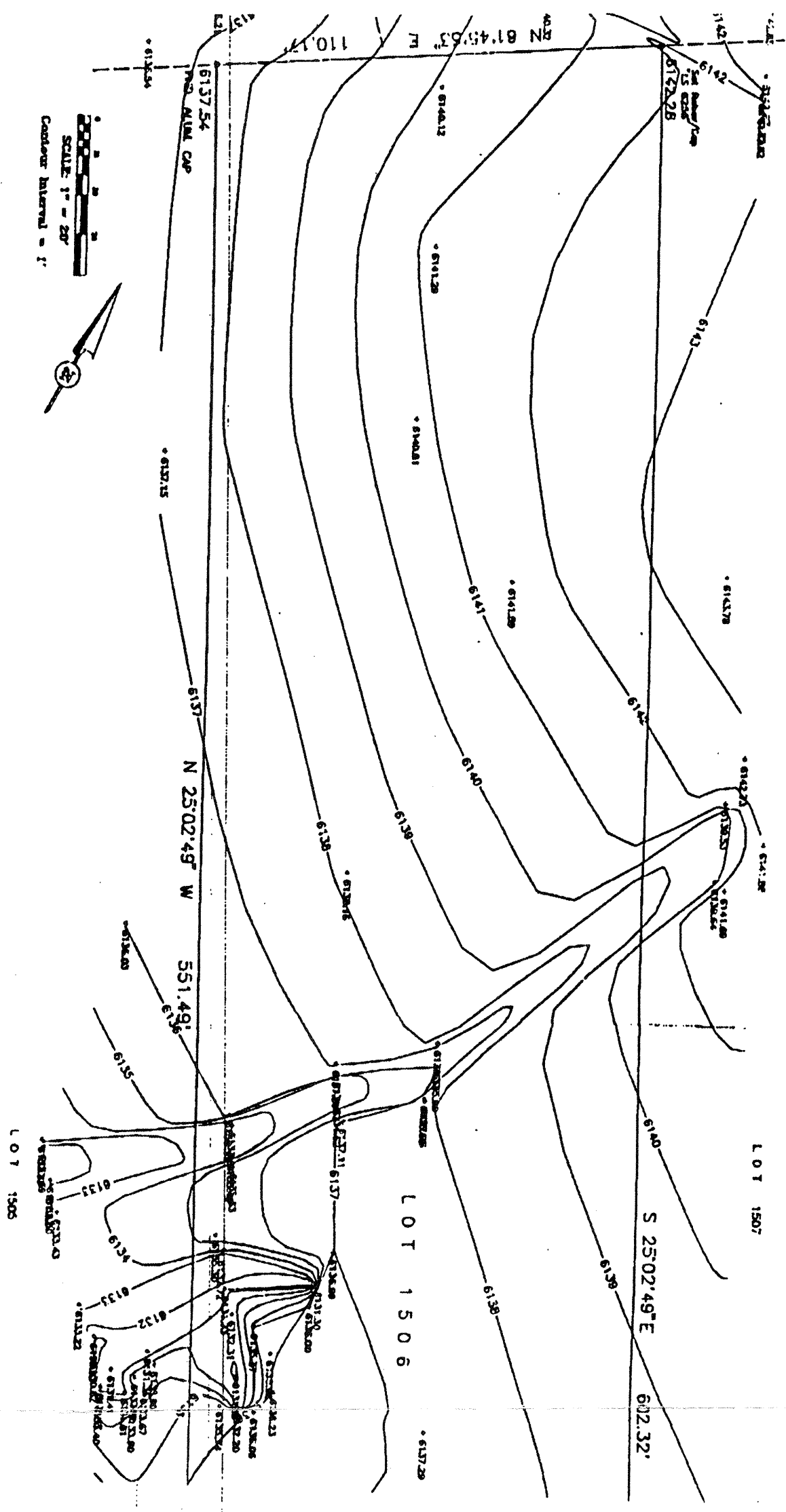
5/26/96

  
\_\_\_\_\_  
NOTARY PUBLIC









S U M P O

Interactive Summary Printout  
for MS-DOS/PC-DOS micro computers  
Sept 1988 version (9/89 update)

NOTE - Asterisk (\*) at left of profile number  
indicates message in summary of errors  
list

Summary Printout

SECNO	DEPTH	CWSEL	EG	HV
* .00	2.60	6140.80	6141.52	.72
10.00	2.33	6140.23	6141.25	1.01
20.00	2.82	6139.92	6140.92	1.01
30.00	3.34	6139.64	6140.66	1.02
40.00	3.80	6139.30	6140.40	1.10
50.00	4.14	6138.94	6140.07	1.14
60.00	5.86	6138.36	6139.72	1.35
60.00	6.06	6138.36	6139.68	1.31

Summary of Errors and Special Notes

CAUTION	SECNO=	.000	PROFILE=	1	Critical depth assumed
CAUTION	SECNO=	.000	PROFILE=	1	Probable minimum specific energy
CAUTION	SECNO=	.000	PROFILE=	1	WSEL assumed based on min DIFF
CAUTION	SECNO=	.000	PROFILE=	1	20 trials attempted to balance WSEL
CAUTION	SECNO=	.000	PROFILE=	1	Slope too steep
NOTE	SECNO=	.000	PROFILE=	1	WSEL based on X5 card
NOTE	SECNO=	.000	PROFILE=	1	WSEL based on X2 card
CAUTION	SECNO=	.000	PROFILE=	1	Hydraulic jump D.S.
CAUTION	SECNO=	.000	PROFILE=	1	bridge drowns up stream Profile
					new backwater required
CAUTION	SECNO=	.000	PROFILE=	1	Downstream depth wrong side critical
CAUTION	SECNO=	.000	PROFILE=	1	Trial and error for channel Q failed
CAUTION	SECNO=	.000	PROFILE=	1	20 trials of EG not enough
CAUTION	SECNO=	.000	PROFILE=	1	Minimum specific energy
CAUTION	SECNO=	.000	PROFILE=	1	Bridge deck definition error
WARNING	SECNO=	.000	PROFILE=	1	KRATIO outside acceptable range
CAUTION	SECNO=	.000	PROFILE=	1	Interpolated x-sections used

DEC 12 1994

NOTE - Asterisk (\*) at left of profile number  
 indicates message in summary of errors  
 list

Summary Printout Table 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS
* .00	.00	.00	.00	6138.20	3400.00	6140.80	6140.80
10.00	10.00	.00	.00	6137.90	3400.00	6140.23	6140.44
20.00	10.00	.00	.00	6137.10	3400.00	6139.92	6140.13
30.00	10.00	.00	.00	6136.30	3400.00	6139.64	6139.85
40.00	10.00	.00	.00	6135.50	3400.00	6139.30	6139.56
50.00	10.00	.00	.00	6134.80	3400.00	6138.94	6139.22
60.00	10.00	.00	.00	6132.50	3400.00	6138.36	6138.71
60.00	.80	.00	.00	6132.30	3400.00	6138.36	6138.74

EG	10K*S	VCH	AREA	0.01K	Q	CWSEL	DIFWSP
* 6141.52	154.77	4.69	506.28	273.29	3400.00	6140.80	.00
6141.25	253.01	5.87	427.05	213.75	3400.00	6140.23	.00
6140.92	250.68	6.52	426.05	214.74	3400.00	6139.92	.00
6140.66	253.95	7.12	420.69	213.36	3400.00	6139.64	.00
6140.40	254.87	7.31	406.72	212.97	3400.00	6139.30	.00
6140.07	252.51	7.24	400.63	213.96	3400.00	6138.94	.00
6139.72	275.15	7.00	370.49	204.97	3400.00	6138.36	.00
6139.68	265.10	6.87	376.45	208.82	3400.00	6138.36	.00

DIFWSX	DIFKWS	TOPWID	XLCH
* .00	-1.20	352.62	.00
-.56	.00	330.79	10.00
-.31	.00	324.38	10.00
-.28	.00	316.88	10.00
-.34	.00	309.33	10.00
-.36	.00	314.39	10.00
-.57	.00	299.56	10.00
.00	.00	308.91	.80

HEN3

\*\*\*\*\*  
\* WATER SURFACE PROFILES \*  
\* VERSION OF SEPTEMBER 1988 \*  
\* ERROR: 01,02,03 \*  
\* UPDATED: SEPTEMBER 1989 \*  
\* RUN DATE 11/22/94 TIME 14:19:52 \*  
\*\*\*\*\*

\*\*\*\*\*  
\* U.S. ARMY CORPS OF ENGINEERS \*  
\* THE HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET, SUITE D \*  
\* DAVIS, CALIFORNIA 95616-4687 \*  
\* (916) 756-1104 \*  
\*\*\*\*\*

```

X      X  XXXXXXXX  XXXXX      XXXXX
X      X  X      X      X      X
X      X  X      X      X      X
XXXXXXX XXXX  X      XXXXX  XXXXX
X      X  X      X      X
X      X  X      X      X
X      X  XXXXXXXX  XXXXX  XXXXXXXX

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END OF BANNER  
11/22/94 14:19:53  
PAGE 1

THIS RUN EXECUTED 11/22/94 14:19:53

\*\*\*\*\*  
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989  
  
ERROR CORR - 01,02,03  
MODIFICATION -  
\*\*\*\*\*

```

1 PINO ARROYO
2 LOT 1106
3 3400CFS
1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ
-10 0 0 1 0 0 0 3400.00 6142.00 1.00

```

11/22/94 14:19:53  
PAGE 2

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

DEC 1 2 1994

SECNO 10.000

265 DIVIDED FLOW

720 CRITICAL DEPTH ASSUMED

.000	2.60	6140.80	6140.80	6142.00	6141.52	.72	.00	.00	6141.80
3400.	3111.	289.	0.	445.	62.	0.	0.	0.	6141.40
.00	7.00	4.69	.00	.040	.030	.000	.000	6138.20	99.10
.015477	0.	0.	0.	0	18	0	.00	352.62	607.29

SECNO 10.000

265 DIVIDED FLOW

10.000	2.33	6140.23	6140.44	.00	6141.25	1.01	.25	.03	6141.60
3400.	3073.	327.	0.	371.	56.	0.	0.	0.	6140.50
.00	8.28	5.87	.00	.040	.030	.000	.000	6137.90	103.58
.025301	13.	10.	16.	4	5	0	.00	330.79	601.65

SECNO 20.000

265 DIVIDED FLOW

20.000	2.82	6139.92	6140.13	.00	6140.92	1.01	.32	.00	6141.50
3400.	2962.	438.	0.	359.	67.	0.	0.	0.	6140.90
.00	8.25	6.52	.00	.040	.030	.000	.000	6137.10	106.85
.025068	13.	10.	16.	9	11	0	.00	324.38	600.07

SECNO 30.000

265 DIVIDED FLOW

30.000	3.34	6139.64	6139.85	.00	6140.66	1.02	.26	.00	6141.10
3400.	2858.	542.	0.	345.	76.	0.	0.	0.	6141.20
.00	8.29	7.12	.00	.040	.030	.000	.000	6136.30	110.65
.025395	10.	10.	19.	11	11	0	.00	316.88	601.33

11/22/94 14:19:53

PAGE 3

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SECNO 40.000

265 DIVIDED FLOW

40.000	3.80	6139.30	6139.56	.00	6140.40	1.10	.26	.01	6140.60
3400.	2803.	597.	0.	325.	82.	0.	0.	0.	6140.50
.00	8.62	7.31	.00	.040	.030	.000	.000	6135.50	115.20
.025487	10.	10.	11.	11	11	0	.00	309.33	603.92

SECNO 50.000

265 DIVIDED FLOW

50.000	4.14	6138.94	6139.22	.00	6140.07	1.14	.32	.00	6139.90
3400.	2814.	586.	0.	320.	81.	0.	1.	0.	6139.80
.00	8.80	7.24	.00	.040	.030	.000	.000	6134.80	118.79
.025251	13.	10.	11.	9	11	0	.00	314.39	605.59

DEC 1 2 1994

265 DIVIDED FLOW

60.000	5.86	6138.36	6138.71	.00	6139.72	1.35	.33	.02	6139.30
3400.	2931.	469.	0.	304.	67.	0.	1.	1.	6139.10
.00	9.66	7.00	.00	.040	.030	.000	.000	6132.50	123.27
.027515	13.	10.	11.	8	17	0	.00	299.56	603.86

SECNO 60.000

265 DIVIDED FLOW

60.000	6.06	6138.36	6138.74	.00	6139.68	1.31	.03	.01	6139.20
3400.	2933.	467.	0.	309.	68.	0.	1.	1.	6139.10
.00	9.51	6.87	.00	.040	.030	.000	.000	6132.30	123.13
.026510	1.	1.	1.	3	8	0	.00	308.91	603.50

PROFILE FOR STREAM

PLOTTED POINTS (BY PRIORITY) E-ENERGY, W-WATER SURFACE, I-INVERT, C-CRITICAL W.S., L-LEFT BANK, R-RIGHT BANK, M-LOWER END STA

LEVATION	6132.	6134.	6136.	6138.	6140.	6142.	6144.	6146.	6148.	6150.
SECNO	CUMDIS									
.00	0.	.	.	.	I	. W E L .	M	.	.	.
	1.	.	.	.	I.	. W REL .	M	.	.	.
	2.	.	.	.	I.	. W REL .	M	.	.	.
	3.	.	.	.	I.	. W R EL .	M	.	.	.
	4.	.	.	.	I.	. WC R EL .	M	.	.	.
	5.	.	.	.	I.	. WCR E L .	M	.	.	.
	6.	.	.	.	I.	. W R EL .	M	.	.	.
	7.	.	.	.	I .	WCR E L .	M	.	.	.
	8.	.	.	.	I .	WCR E L .	M	.	.	.
	9.	.	.	.	I .	WC E L .	M	.	.	.
10.00	10.	.	.	.	I .	WC E L .	M	.	.	.
	11.	.	.	.	I .	W.C EL .	M	.	.	.
	12.	.	.	.	I .	WCR E L .	M	.	.	.
	13.	.	.	.	I .	WC R EL .	M	.	.	.
	14.	.	.	.	I .	WC R EL .	M	.	.	.
	15.	.	.	.	I .	WC R EL .	M	.	.	.
	16.	.	.	.	I .	WC R EL .	M	.	.	.
	17.	.	.	.	I .	WC R EL .	M	.	.	.
	18.	.	.	.	I .	WC. E L .	M	.	.	.
	19.	.	.	.	I .	WC. E L .	M	.	.	.
20.00	20.	.	.	.	I .	WC. E L .	M	.	.	.
	21.	.	.	.	I .	WC. E L .	M	.	.	.
	22.	.	.	.	I .	WC. E L .	M	.	.	.
	23.	.	.	.	I .	WC. E L .	M.	.	.	.
	24.	.	.	.	I .	WC. ERL .	M.	.	.	.
	25.	.	.	.	I .	WC . E RL .	M.	.	.	.
	26.	.	.	.	I .	WC . E RL .	M.	.	.	.
	27.	.	.	.	I .	WC . E RL .	M.	.	.	.
	28.	.	.	.	I .	WC . E L .	M .	.	.	.
	29.	.	.	.	I .	WC . E L .	M .	.	.	.
30.00	30.	.	.	.	I .	WC . E LR .	M .	.	.	.
	31.	.	.	.	I .	WC . E L .	M .	.	.	.
	32.	.	.	.	I .	WC . E L .	M .	.	.	.
	33.	.	.	.	I .	WC . E L .	M .	.	.	.
	34.	.	.	.	I .	WC . E L .	M .	.	.	.
	35.	.	.	.	I .	WC . E L .	M .	.	.	.

DEC 1 2 1994

38. . . . . W C .EL M  
39. . . . . WC .EL M  
40.00 40. . . . . WC .EL M  
41. . . . . WC EL M  
42. . . . . WC EL M  
43. . . . . W C E M  
44. . . . . W C E M  
45. . . . . WC RE M  
46. . . . . WC LE M  
47. . . . . WC E. M  
48. . . . . WC RE. M  
49. . . . . W C LE. M  
50.00 50. . . . . W C LE. M  
51. . . . . WC RLE. M  
52. . . . . WC L E. M  
53. . . . . W C RLE . M  
54. . . . . W C RLE . M  
55. . . . . WC RLE . M  
56. . . . . W C RL E . M  
57. . . . . W C RL E . M  
58. . . . . W C RLE . M  
59. . . . . WC RL E . M  
60.00 60. .I . . . W C RL E . M  
60.00 61. I . . . W C RL E . M

\*\*\*\*\* THIS RUN EXECUTED 11/22/94 14:19:55 \*\*\*\*\*  
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03  
MODIFICATION -  
\*\*\*\*\*

NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
.000	.00	.00	.00	6138.20	3400.00	6140.80	6140.80	6141.52	154.77	4.69	506.28	273.29
10.000	10.00	.00	.00	6137.90	3400.00	6140.23	6140.44	6141.25	253.01	5.87	427.05	213.75
20.000	10.00	.00	.00	6137.10	3400.00	6139.92	6140.13	6140.92	250.68	6.52	426.05	214.74
30.000	10.00	.00	.00	6136.30	3400.00	6139.64	6139.85	6140.66	253.95	7.12	420.69	213.36
40.000	10.00	.00	.00	6135.50	3400.00	6139.30	6139.56	6140.40	254.87	7.31	406.72	212.97
50.000	10.00	.00	.00	6134.80	3400.00	6138.94	6139.22	6140.07	252.51	7.24	400.63	213.96
60.000	10.00	.00	.00	6132.50	3400.00	6138.36	6138.71	6139.72	275.15	7.00	370.49	204.97

DEC 1 2 1994



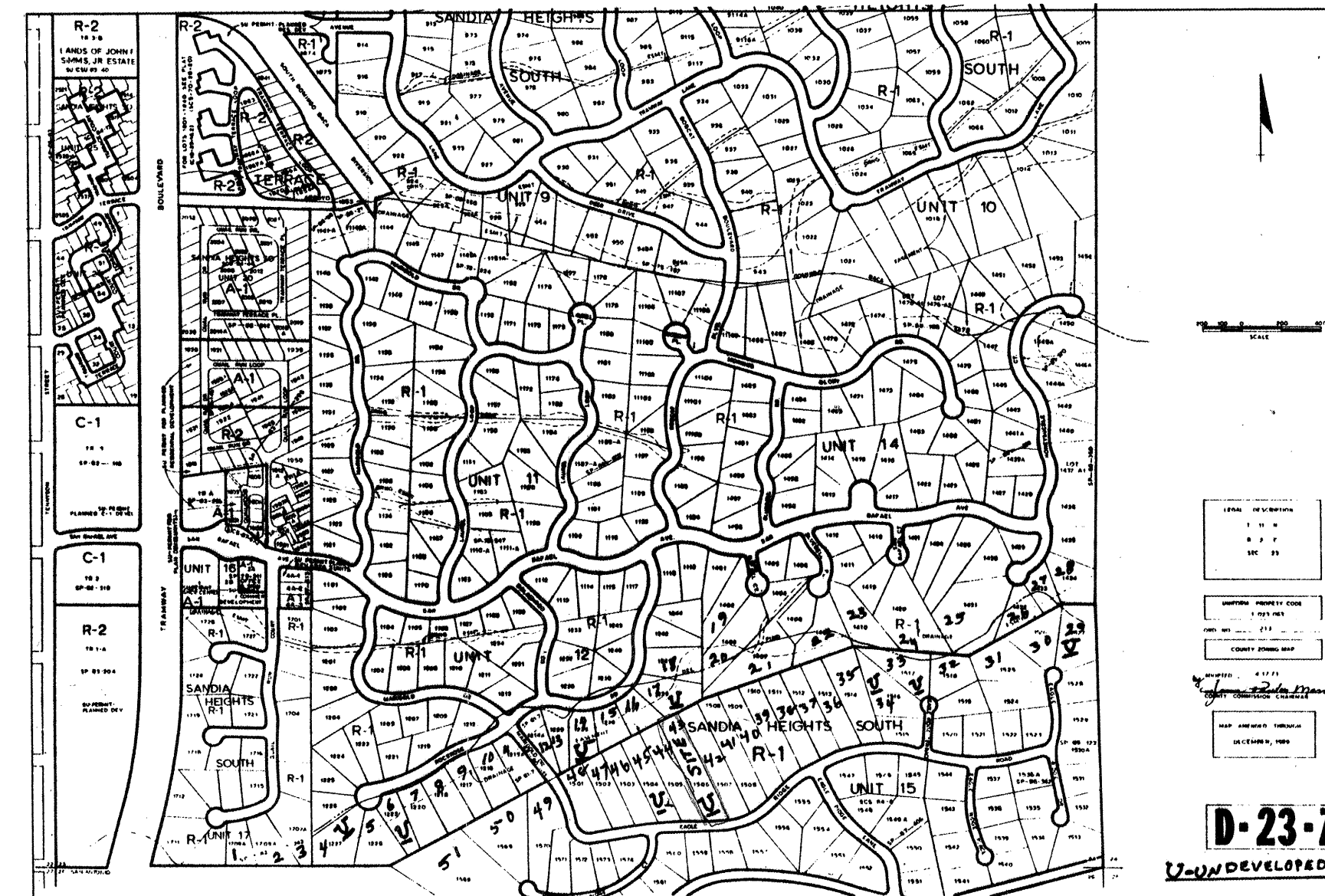
## SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
.000	3400.00	6140.80	.00	.00	-1.20	352.62	.00
10.000	3400.00	6140.23	.00	-.56	.00	330.79	10.00
20.000	3400.00	6139.92	.00	-.31	.00	324.38	10.00
30.000	3400.00	6139.64	.00	-.28	.00	316.88	10.00
40.000	3400.00	6139.30	.00	-.34	.00	309.33	10.00
50.000	3400.00	6138.94	.00	-.36	.00	314.39	10.00
60.000	3400.00	6138.36	.00	-.57	.00	299.56	10.00
60.000	3400.00	6138.36	.00	.00	.00	308.91	.80

## SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .000 PROFILE= 1 CRITICAL DEPTH ASSUMED

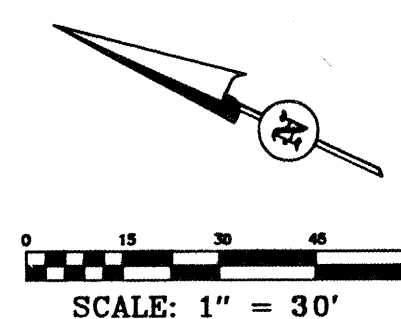
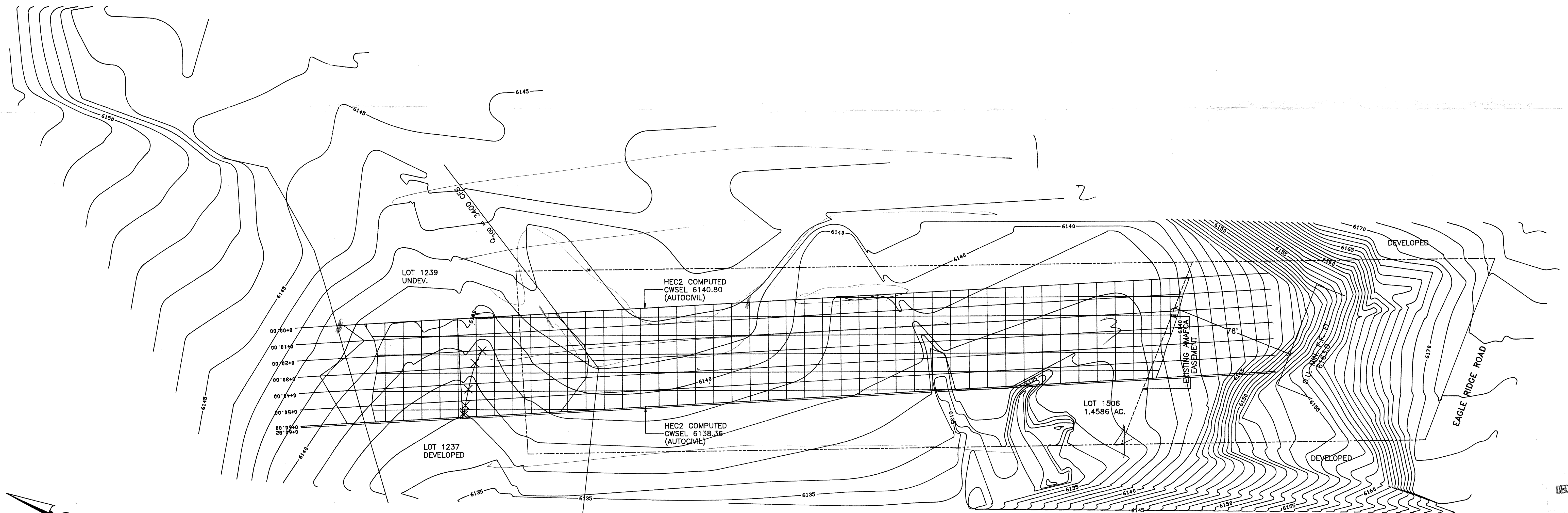
DEC 12 1994



UNDEVELOPED LOTS ALONG PINO EAST OF TRAMWAY

#### DISCUSSION

THIS PLOT IS FROM THE AUTO HEC2 PROGRAM OF THE AUTOCIVIL 1994 VERSION V COMPUTER PROGRAM. IT IS BASED UPON A ONE-FOOT CONTOUR INTERVAL FIELD SURVEY, WHICH IS SHOWN. A MAX. Q 100 YEAR FLOW RATE OF 3400 CFS WAS USED. THIS IS THE Q WHICH WAS UTILIZED FOR D-23/ D36 FOR LOT 1511. FIVE LOTS UPSTREAM FROM THIS LOT (1506). THIS CWSEL SHOWN IN CROSS HATCH, IS QUITE SIMILAR TO THE EXISTING 1982 FEMA FLOODPLAIN MAP BY ESPY-HUSTON. THE PLANNED DWELLING UNIT IS 76 FEET HORIZONTAL DISTANCE FROM THE EXISTING AMAFCA EASEMENT. WITH A MINIMUM FINISHED FLOOR ELEVATION OF ~ 22 FEET ABOVE THE CWSEL. THIS LOT HAS OCCUPIED DWELLING UNITS ON BOTH THE UP-STREAM AND DOWNSTREAM LOTS. OF THE 51 LOTS IN THE SANDIA HEIGHTS SUBDIVISION WITH A FLOODPLAIN IN THE PINO ARROYO, ALL EXCEPT 9 ARE CURRENTLY DEVELOPED OR UNDER DEVELOPMENT. BASED UPON THESE RESULTS, IT IS BELIEVED THAT ADEQUATE AMAFCA EASEMENTS EXISTS, AND THE PINO ARROYO POSES NO THREAT TO THIS PROPOSED DEVELOPMENT.



DEC 12 1994

## C.A. COONCE & ASSOC.

ENVIRONMENTAL, WATER RESOURCES, & SANITARY CONSULTING ENGINEERS  
12324 PINERIDGE N.E. ALBUQUERQUE, N.M. 87112 PH (505) 298-1089

TITLE AUXILIARY SITE DATA, D-23/D40

PROJECT LOT 1506, SANDIA HEIGHTS SUBDIVISION

DATE	11/30/94	REVISED			
DRAWN	LSC				
CHECKED	CAC				

SHEET 1 OF 1