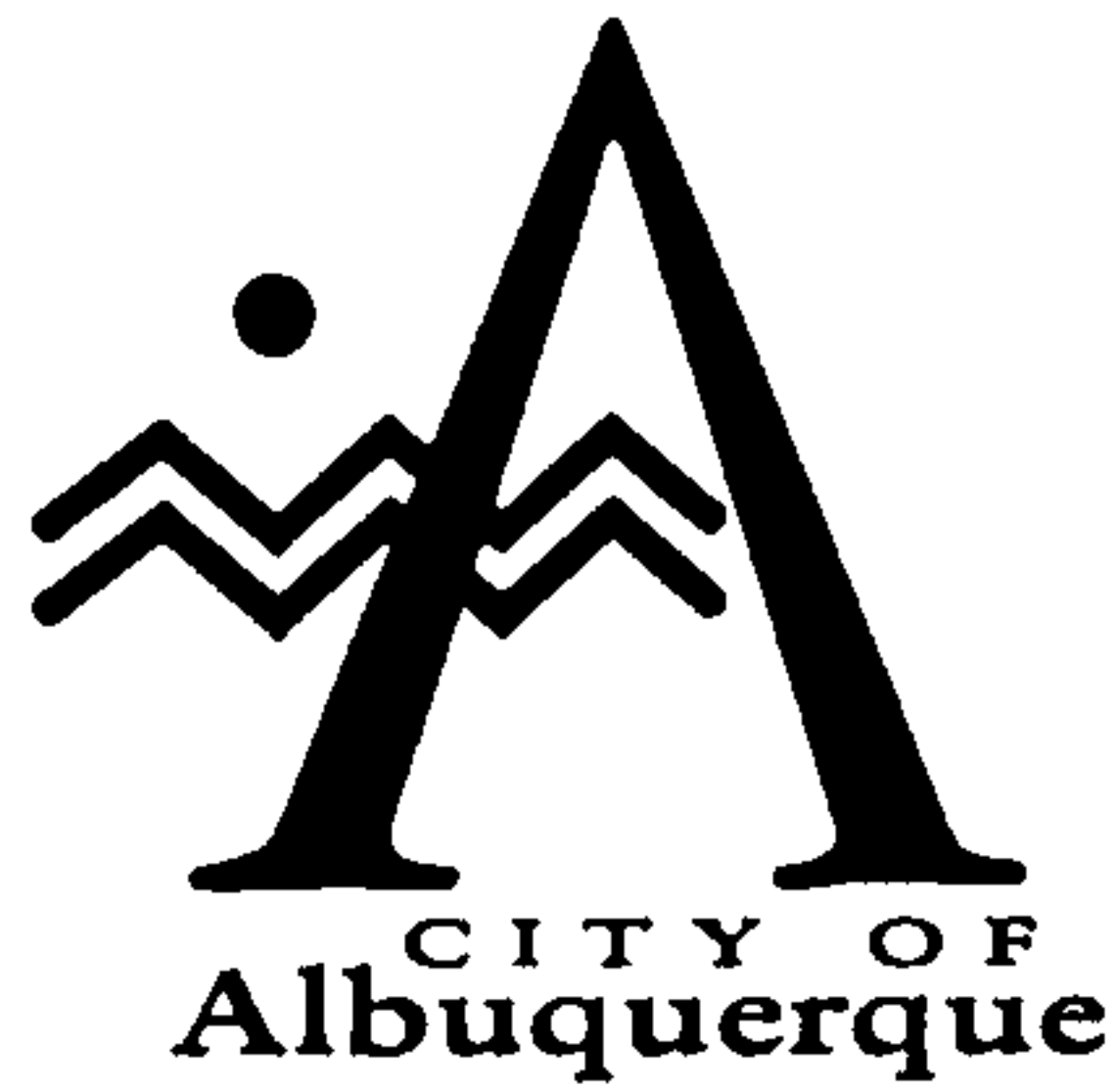




March 5, 1998

Mark Goodwin, P.E.
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, NM 87199

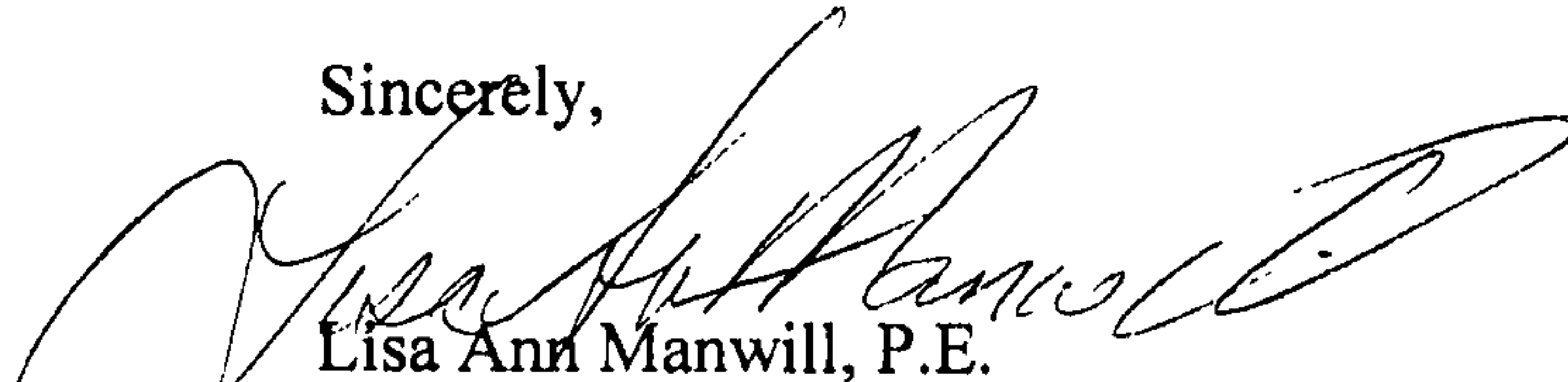
**RE: SAN CLEMENTE SUBDIVISION (G14-D55). ENGINEER'S CERTIFICATION
FOR RELEASE OF FINANCIAL GUARANTEE. ENGINEER'S CERTIFICATION
DATED 2-26-98.**

Dear Mr. Goodwin:

Based on the information provided on your February 27, 1998 submittal, City Hydrology accepts the Engineer's Certification of grading and drainage (Work Order Number 5246.80)

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

Sincerely,



Lisa Ann Manwill, P.E.
Hydrology

c: Terri Martin
Andrew Garcia
File

Good for You, Albuquerque!



DRAINAGE INFORMATION SHEET

PROJECT TITLE: San Clemente Subdivision ZONE ATLAS/DRNG, FILE#: G-14
DRB #: 95-170 EPC #: WORK ORDER #: 5246.80
LEGAL DESCRIPTION: Lots 13, 14 & 17, Renfro Addition
CITY ADDRESS: Grande and San Clemente NW

ENGINEERING FIRM: Mark Goodwin & Associates, PA CONTACT: Mark Goodwin, PE
ADDRESS: PO Box 90606 Albuquerque, NM 87199 PHONE: 828-2200
OWNER: Mike Renfro CONTACT: Mike Renfro
ADDRESS: 4011 San Isidro PHONE: 345-8771
ARCHITECT: N/A CONTACT:
ADDRESS: PHONE:
SURVEYOR: Harris Surveying CONTACT: Tony Harris
ADDRESS: 2412 Monroe NE PHONE: 889-8056
CONTRACTOR: Pete's Custom Construction CONTACT: Pete
ADDRESS: PHONE:

TYPE OF SUBMITTAL:

 DRAINAGE REPORT
 DRAINAGE PLAN
 CONCEPTUAL GRADING & DRAINAGE PLAN
 GRADING PLAN
 EROSION CONTROL PLAN
 X ENGINEER'S CERTIFICATION
 OTHER

PRE-DESIGN MEETING:

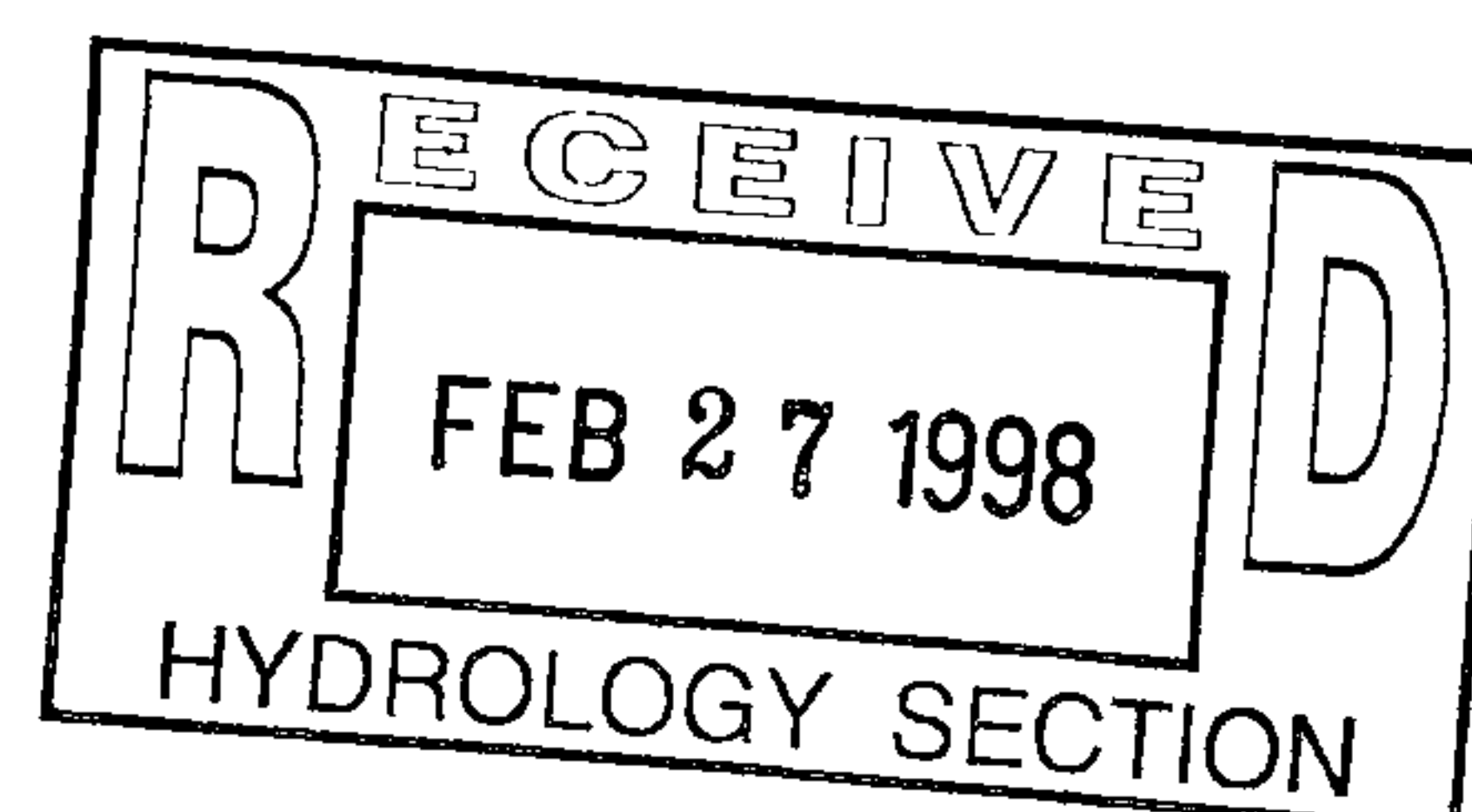
 YES
 X NO
 COPY PROVIDED

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
 CERTIFICATION OF OCCUPANCY APPROVAL
 GRADING PERMIT APPROVAL
 PAVING PERMIT APPROVAL
 S.A.D. DRAINAGE REPORT
 DRAINAGE REQUIREMENTS
 X OTHER Release of financial guaranty (Specify)

DATE SUBMITTED: 2/26/98

BY: Mark Goodwin
Mark Goodwin, PE



DRAINAGE INFORMATION SHEET

PROJECT TITLE: San Clemente Subdivision ZONE ATLAS/DRNG, FILE#: G-14
DRB #: 95-170 EPC #: WORK ORDER #: 5246.80
LEGAL DESCRIPTION: Lots 13, 14 & 17, Renfro Addition
CITY ADDRESS: Grande and San Clemente NW

ENGINEERING FIRM: Mark Goodwin & Associates, PA CONTACT: Mark Goodwin, PE
ADDRESS: PO Box 90606 Albuquerque, NM 87199 PHONE: 828-2200
OWNER: Mike Renfro CONTACT: Mike Renfro
ADDRESS: 4011 San Isidro PHONE: 345-8771
ARCHITECT: N/A CONTACT:
ADDRESS: PHONE:
SURVEYOR: Harris Surveying CONTACT: Tony Harris
ADDRESS: 2412 Monroe NE PHONE: 889-8056
CONTRACTOR: Pete's Custom Construction CONTACT: Pete
ADDRESS: PHONE:

TYPE OF SUBMITTAL:

 DRAINAGE REPORT
 DRAINAGE PLAN
 CONCEPTUAL GRADING & DRAINAGE PLAN
 GRADING PLAN
 EROSION CONTROL PLAN
 X ENGINEER'S CERTIFICATION
 OTHER

PRE-DESIGN MEETING:

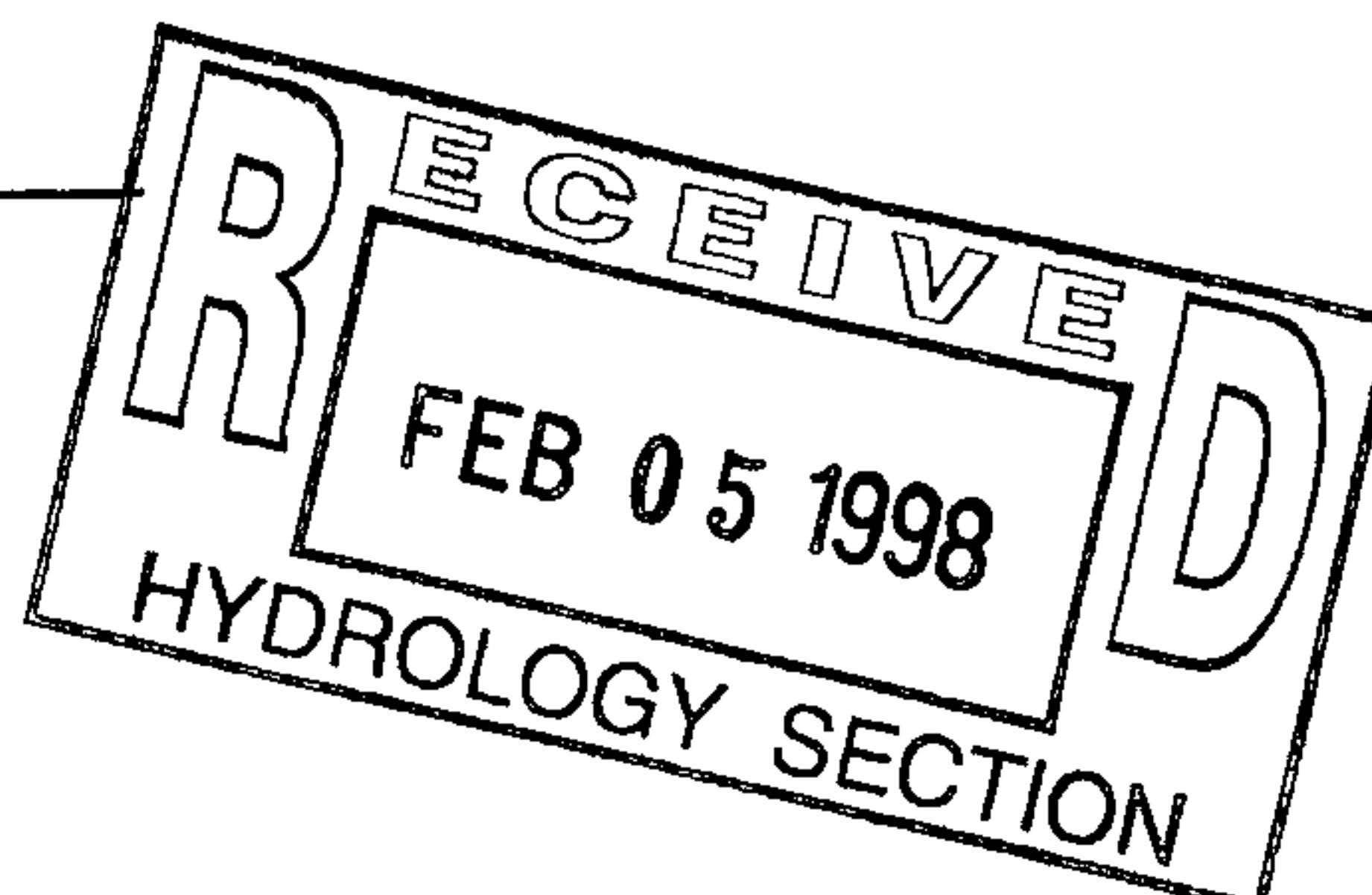
 YES
 X NO
 COPY PROVIDED

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
 CERTIFICATION OF OCCUPANCY APPROVAL
 GRADING PERMIT APPROVAL
 PAVING PERMIT APPROVAL
 S.A.D. DRAINAGE REPORT
 DRAINAGE REQUIREMENTS
 X OTHER Release of financial guaranty (Specify)

DATE SUBMITTED: 2/3/98

BY: Mark Goodwin
Mark Goodwin, PE





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 26, 1995

Mark Goodwin, PE
Mark Goodwin & Assoc
PO Box 90606
Albuquerque, NM 87199

RE: GRADING & DRAINAGE PLAN FOR SAN CLEMENTE SUBD (G-14/D55)
RECEIVED JUNE 30, 1995 FOR ROUGH GRADING & FINAL PLAT
ENGINEER'S STAMP DATED 6/29/95

Dear Mr. Goodwin:

Based on the information included in the submittal referenced above, City Hydrology accepts the Grading & Drainage Plan for Rough Grading Permit & Final Plat. The Amended Grading & Drainage Plan must be submitted to DRB for their approval.

It is City Hydrology's understanding that portions of the existing wall along San Clemente Ave will be removed to allow runoff to reach the street through driveways. Indicate the as-built driveway locations and elevations on the Engineer's Certification.

Engineer's Certification of grading & drainage per DPM checklist must be accepted by City Hydrology before the Financial Guaranty or Building Permits will be released.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.
Civil Engineer/Hydrology

c: Andrew Garcia
Fred Aguirre, DRB 95-170
Larry Caudill, Environmental Health
Mike Renfro, 4011 San Isidro NW 87107

DRAINAGE INFORMATION SHEET

PROJECT TITLE: San Clement Subdivision ZONE ATLAS/DRNG, FILE#: G-14/055
 DRB #: 95-170 EPC #: _____ WORK ORDER #: _____
 LEGAL DESCRIPTION: Lots 13, 14 & 17, Renfro Addition
 CITY ADDRESS: San Clemente and Grande NW

ENGINEERING FIRM: Mark Goodwin & Associates, PA CONTACT: Mark Goodwin, PE
 ADDRESS: PO Box 90606 PHONE: 345-2010
 OWNER: Mike Renfro CONTACT: Mike Renfro
 ADDRESS: 4011 San Isidro NW PHONE: _____
 ARCHITECT: N/A CONTACT: _____
 ADDRESS: _____ PHONE: _____
 SURVEYOR: Harris Surveying CONTACT: Tony Harris
 ADDRESS: 2412 Monroe NE PHONE: 889-8056
 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
☐ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☒ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATION OF OCCUPANCY APPROVAL
☒ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (Specify)

DATE SUBMITTED: 6/30/95

BY: Mark Goodwin
 Mark Goodwin, PE



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 28, 1995

Mark Goodwin, PE
Mark Goodwin & Assoc
PO Box 90606
Albuquerque, NM 87199

RE: GRADING & DRAINAGE PLAN FOR SAN CLEMENTE SUBD (G-14/D55)
RECEIVED JUNE 2, 1995 FOR ROUGH GRADING, PRELIMINARY & FINAL PLAT
ENGINEER'S STAMP DATED 6-1-95

Dear Mr. Goodwin:

Based on the information included in the submittal referenced above, City Hydrology grants this site free discharge because of the following:

1. This site is an infill within a developed basin. The area of this site is tiny in comparison with the total area of the basin.
2. Permanent improvements including storm drain are in place in San Clemente Avenue & Grande Drive.
3. Firm Panel 22 indicates that there are no 100 year Flood Hazard Zones in San Clemente or Grande and The AMDS indicates that the storm drain in those street does not require improvement.

Revise the Grading Plan to drain to the streets and submit for Final Plat.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.
Civil Engineer/Hydrology

c: Andrew Garcia
Fred Aguirre, 95-170
Mike Renfro, 4011 San Isidro NW 87107

DRAINAGE INFORMATION SHEET

PROJECT TITLE: San Clement Subdivision ZONE ATLAS/DRNG, FILE#: G-14 / 1155
DRB #: 95-170 EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: Lots 13, 14 & 17, Renfro Addition
CITY ADDRESS: San Clemente and Grande NW

ENGINEERING FIRM:	<u>Mark Goodwin & Associates, PA</u>	CONTACT:	<u>Mark Goodwin, PE</u>
ADDRESS:	<u>PO Box 90606</u>	PHONE:	<u>345-2010</u>
OWNER:	<u>Mike Renfro</u>	CONTACT:	<u>Mike Renfro</u>
ADDRESS:	<u>4011 San Isidro NW</u>	PHONE:	_____
ARCHITECT:	<u>N/A</u>	CONTACT:	_____
ADDRESS:	_____	PHONE:	_____
SURVEYOR:	<u>Harris Surveying</u>	CONTACT:	<u>Tony Harris</u>
ADDRESS:	<u>2412 Monroe NE</u>	PHONE:	<u>889-8056</u>
CONTRACTOR:	<u>N/A</u>	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

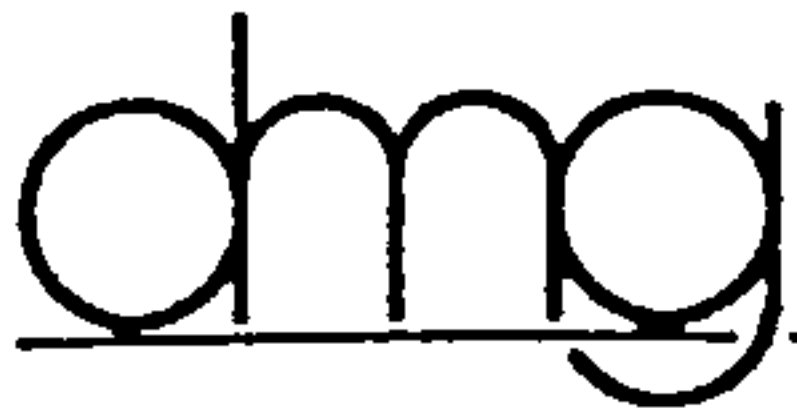
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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
- ☐ CERTIFICATION OF OCCUPANCY APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ OTHER _____ (Specify)

DATE SUBMITTED: 6/2/95

BY: 
Mark Goodwin, PE

JUN - 2 1995



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

PROJECT San Clemente
SUBJECT Drainage
BY MG DATE 5/31/95
CHECKED _____ DATE _____
SHEET 1 OF _____

This project entails development of an 1.468 Ac. infill site in the North Valley into 6 Residential Lots.

The site is completely bounded by improved streets and existing residential developments.

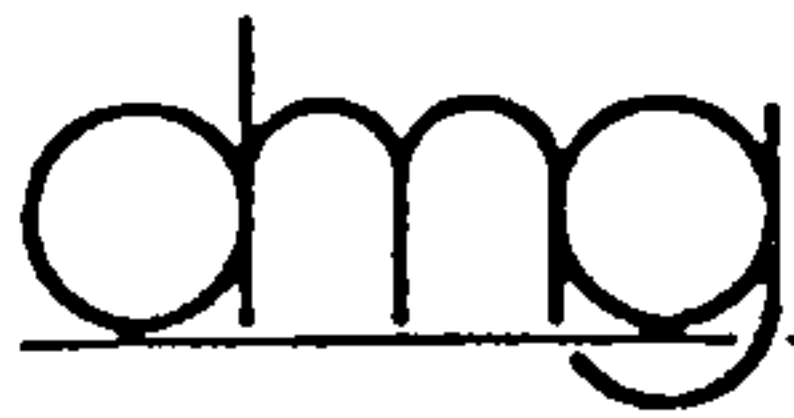
The site does not lie within a 100 Year Flood Zone and is essentially flat and undeveloped. FIRM Panel 22 FHE "B"

We propose to use a "Valley" solution for grading and drainage - each lot will contain 2 - 100 Year storms on the lot. Impermeable walls on each lot line will prevent cross lot drainage.

Since the streets exist and are curbed - no public waters will enter this site.

LOT	Area	% D	% C	% B	Vol. (1)	Vol. (2)
1	0.18 Ac	40	10	50	871 c.F.	1742
2	0.18 Ac	40	10	50	871	1742
3	0.18 Ac	40	10	50	871	1742
4	0.25 Ac	38	10	52	1307	2614
5	0.27 Ac	37	10	53	1089	2178
6	0.40 Ac	36	10	54	1742	3484

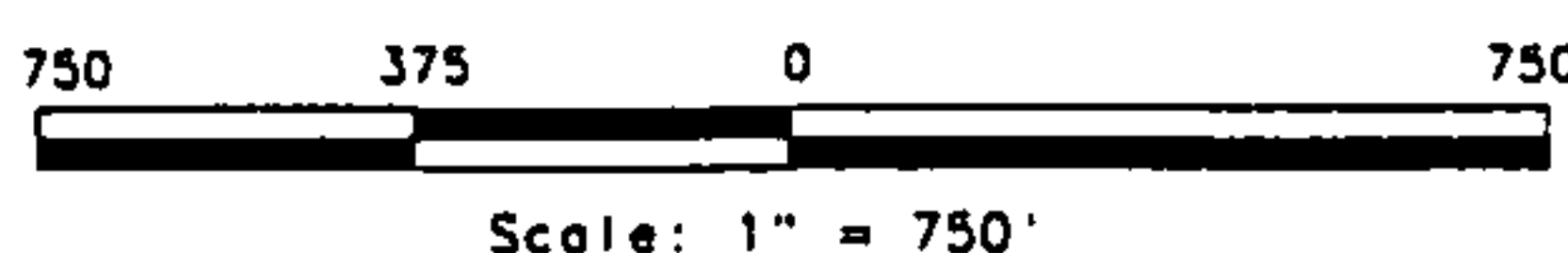
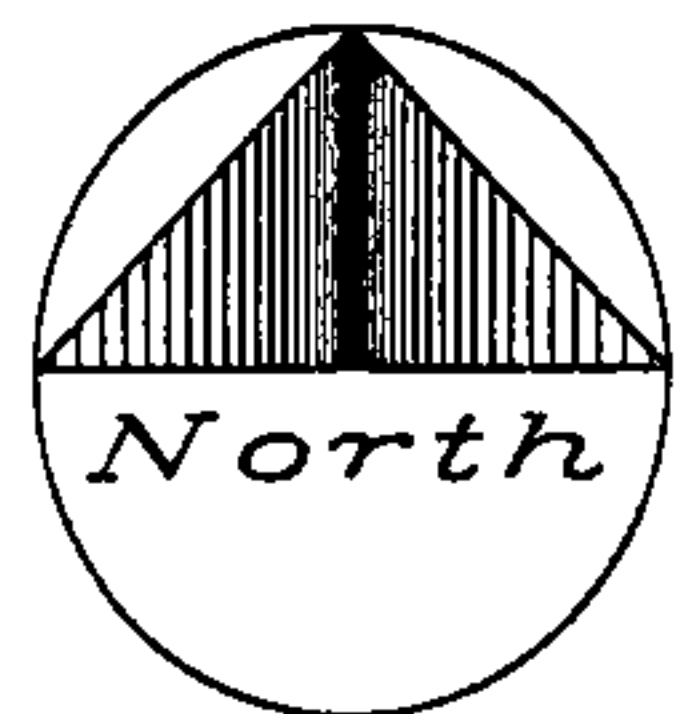
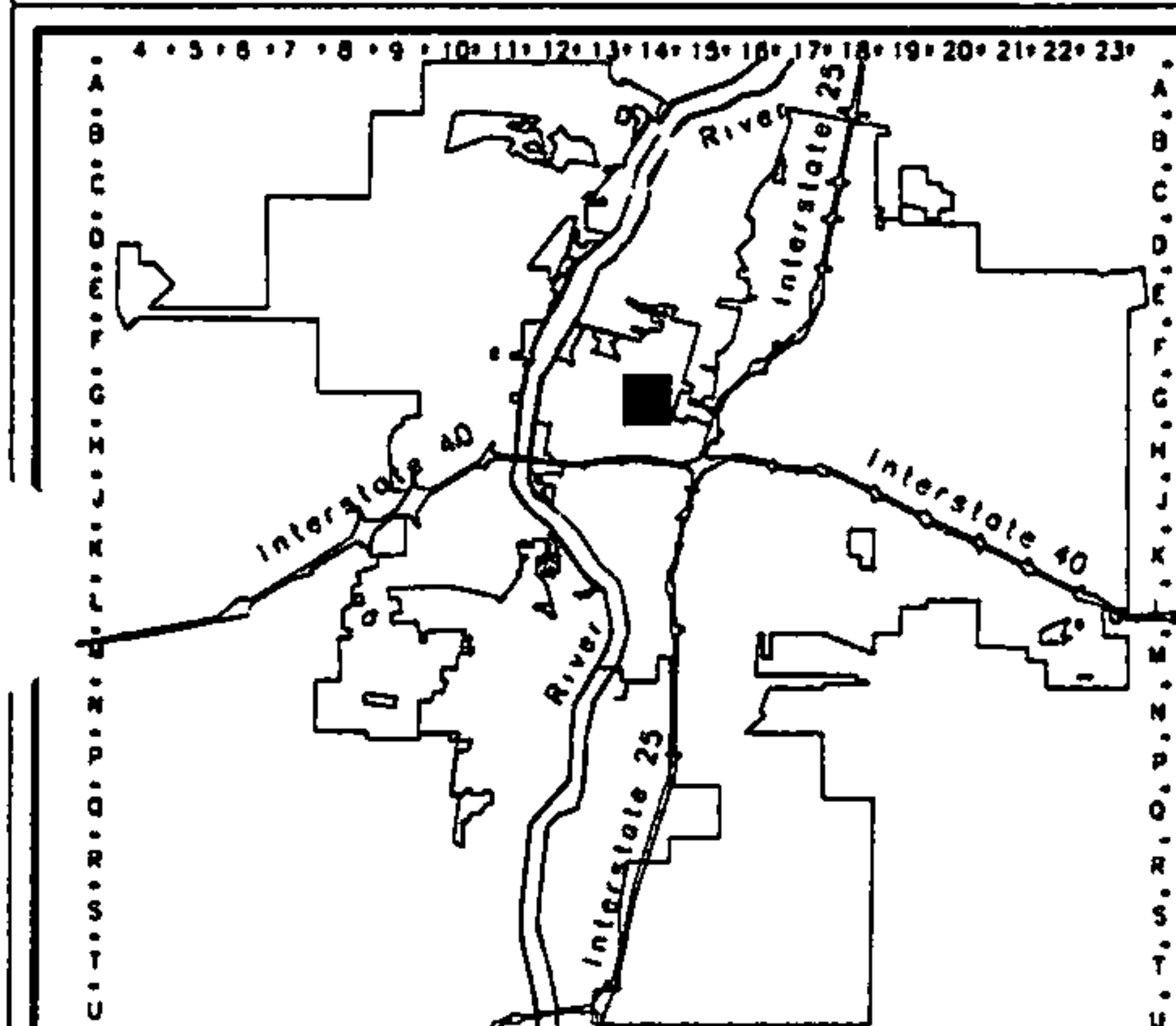
JUN - 2 1995
 $\% D = 50 \times 50 + 20 \times 25 + 15 \times 10 + 4 \times 20$
House Drive Patio Walk



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

PROJECT San Clemente
SUBJECT Drainage
BY MG DATE 5/31/95
CHECKED _____ DATE _____
SHEET 2 OF _____

LOT	Vol. REQ'D.	Vol. PROV'D	AVG. DEPTH
1	1742 C.F.	1875 C.F.	9"
2	1742	1875 C.F.	9"
3	1742	1875	9"
4	2614	2728	10"
5	2178	2674	5"
6	3484	3540	6"



Abuquerque **G**eographic **I**nformation **S**ystem
City of Albuquerque
 © Planning Department July 07, 1993

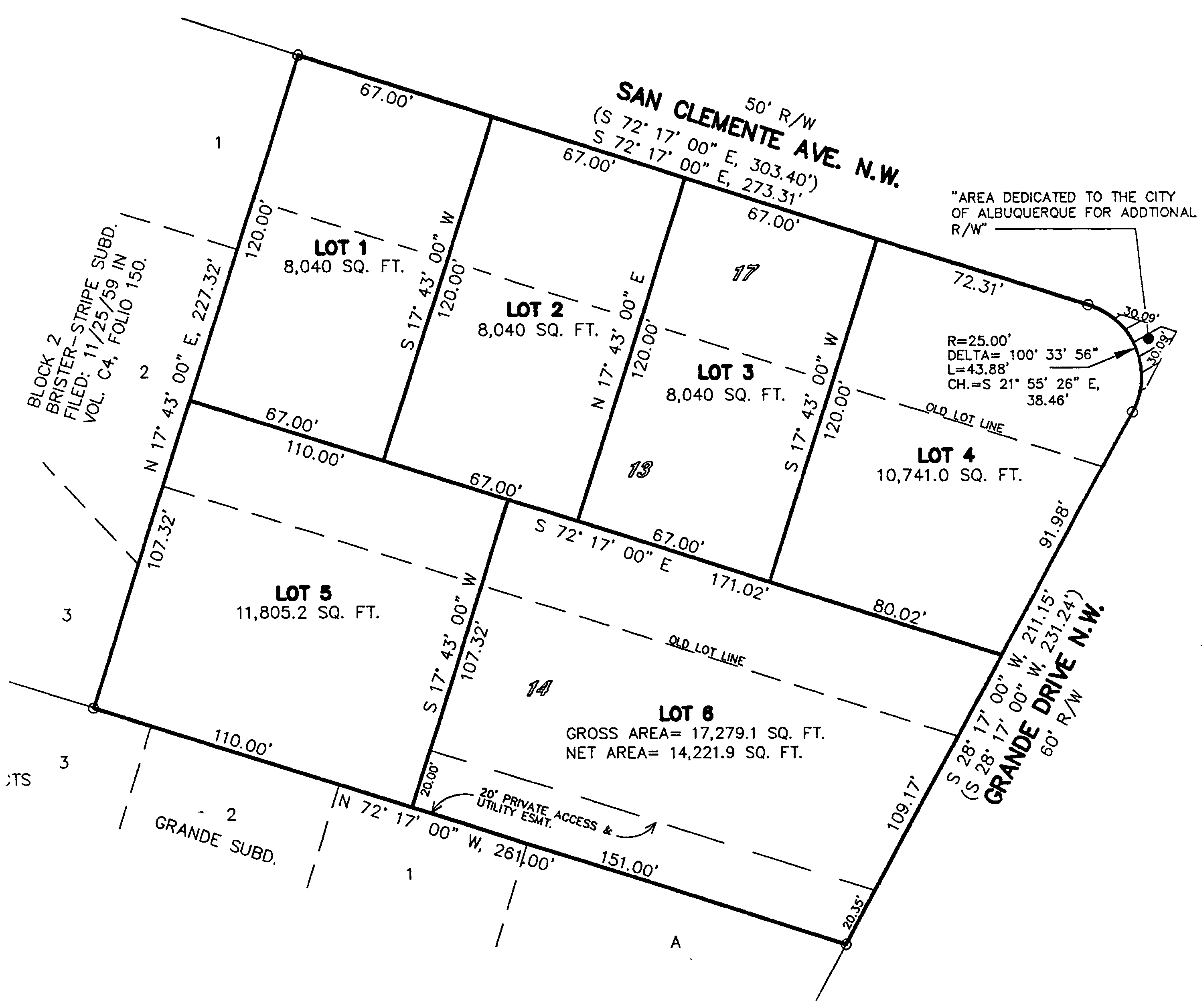
LEGAL DESCRIPTION

T10N
 R3E
 SEC 5

UNIFORM PROPERTY CODE

1-014-060

G-14-Z



- TRAFFIC
- PARKS
- PUBLIC
- U S WE.
- GAS CO
- CITY
- UTILITIES
- A.M.A.F.
- CITY EN
- CITY PF
- APPROV BY THE XI OF ALBUQU
- CITY PL ALBUQU

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
 RUN DATE (MON/DAY/YR) = 03/31/1995
 START TIME (HR:MIN:SEC) = 07:24:54 USER NO. = M_GOODWN.101
 INPUT FILE = SCI.DAT

START TIME=0.0

***** HYDROGRAPH FOR SAN CLEMENTE LOT 1

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.87 IN RAIN SIX=2.20 IN

RAIN DAY=2.66 IN DT=0.03333 HR

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

DT -	0.033330 HOURS			END TIME = 5.999400 HOURS		
.0000	.0016	.0033	.0050	.0067	.0085	.0103
.0122	.0141	.0160	.0180	.0201	.0222	.0243
.0266	.0289	.0312	.0337	.0362	.0388	.0415
.0447	.0472	.0502	.0534	.0567	.0601	.0637
.0675	.0715	.0758	.0807	.0863	.0924	.1050
.1334	.1771	.2398	.3254	.4379	.5814	.7600
.9780	1.1804	1.2649	1.3363	1.3997	1.4575	1.5106
1.5600	1.6061	1.6493	1.6900	1.7284	1.7646	1.7989
1.8314	1.8623	1.8915	1.9193	1.9456	1.9713	1.9976
1.9630	1.9882	1.9732	1.9780	1.9825	1.9869	1.9912
1.9953	1.9993	2.0031	2.0068	2.0104	2.0140	2.0174
2.0207	2.0240	2.0272	2.0303	2.0333	2.0363	2.0392
2.0420	2.0448	2.0475	2.0502	2.0528	2.0554	2.0580
2.0605	2.0629	2.0653	2.0677	2.0700	2.0723	2.0746
2.0765	2.0790	2.0813	2.0833	2.0855	2.0875	2.0896
2.0916	2.0936	2.0956	2.0976	2.0995	2.1014	2.1033
2.1051	2.1070	2.1088	2.1106	2.1124	2.1141	2.1157
2.1176	2.1193	2.1210	2.1227	2.1244	2.1260	2.1276
2.1292	2.1308	2.1324	2.1340	2.1356	2.1371	2.1386
2.1401	2.1416	2.1431	2.1446	2.1460	2.1475	2.1489
2.1504	2.1518	2.1532	2.1546	2.1560	2.1573	2.1587
2.1600	2.1614	2.1627	2.1640	2.1654	2.1667	2.1680
2.1692	2.1705	2.1718	2.1731	2.1743	2.1756	2.1768
2.1780	2.1792	2.1804	2.1817	2.1829	2.1840	2.1852
2.1864	2.1876	2.1887	2.1899	2.1910	2.1922	2.1933
2.1944	2.1956	2.1967	2.1978	2.1989	2.2000	

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.000300 SQ MI

PER A=00 PER B=50 PER C=10 PER D=40

TR=0.1333 HR MASS RAINFALL=-1

K = .0726458 TR = .133300HR K/TF FACTOR = .545000 SHAPE
 CONCENTR. N = 7.106420
 UNIT PEAK = 473.7 CFS UNIT VOLUME = 1.975 P = 776.28
 TAO = 1.5700

AREA = .000120 SQ MI RA = .10000 INCHES INF = .04000 I
NCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT
= .033330

K = .126804HR TP = .133300HR K/TP RATIO = .951271 SHAPE
CONSTANT, N = 3.715449
UNIT PEAK = .45335 CFS UNIT VOLUME = .9692 B = 335.73
P60 = 1.6700
AREA = .000180 SQ MI IA = .47500 INCHES INF = 1.18000 I
NCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT
= .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 1.21452 INCHES = .0194 ACRE-FEET
PEAK DISCHARGE RATE = .60 CFS AT 1.500 HOURS BASIN AREA =
.0003 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 07:25:02

AHYMO PROGRAM (AHYMO194) - ANAFCA Hydrologic Model - January, 1994
 RUN DATE (MON/DAY/YR) = 05/31/1995
 START TIME (HR:MIN:SEC) = 07:33:25 USER NO. = M_GOODWIN.101
 INPUT FILE = SC2.DAT

START TIME=0.0

***** HYDROGRAPH FOR SAN CLEMENTE LDT.4

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.87 IN RAIN SIX=2.20 IN

RAIN DAY=2 66 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	.0016	.0033	.0050	.0067	.0085	.0103
.0122	.0141	.0160	.0180	.0201	.0222	.0243
.0266	.0289	.0312	.0337	.0362	.0386	.0415
.0443	.0472	.0502	.0534	.0567	.0601	.0637
.0675	.0715	.0758	.0809	.0865	.0924	.1050
.1334	.1771	.2398	.3234	.4379	.5814	.7600
.9780	1.1504	1.2649	1.3363	1.3997	1.4575	1.5106
1.5600	1.6061	1.6493	1.6900	1.7284	1.7646	1.7989
1.8314	1.8623	1.8915	1.9193	1.9456	1.9708	1.9957
1.9630	1.9882	1.9732	1.9780	1.9825	1.9867	1.9912
1.9953	1.9993	2.0031	2.0068	2.0104	2.0140	2.0174
2.0207	2.0240	2.0272	2.0303	2.0333	2.0363	2.0392
2.0420	2.0448	2.0475	2.0502	2.0528	2.0554	2.0580
2.0605	2.0629	2.0653	2.0677	2.0700	2.0723	2.0746
2.0768	2.0790	2.0812	2.0833	2.0853	2.0875	2.0896
2.0916	2.0936	2.0956	2.0976	2.0995	2.1014	2.1033
2.1051	2.1070	2.1088	2.1106	2.1124	2.1141	2.1159
2.1176	2.1193	2.1210	2.1227	2.1244	2.1260	2.1276
2.1292	2.1308	2.1324	2.1340	2.1355	2.1371	2.1386
2.1401	2.1416	2.1431	2.1446	2.1460	2.1475	2.1489
2.1504	2.1518	2.1532	2.1546	2.1560	2.1573	2.1587
2.1600	2.1614	2.1627	2.1640	2.1654	2.1667	2.1680
2.1692	2.1705	2.1718	2.1731	2.1743	2.1756	2.1768
2.1780	2.1792	2.1804	2.1817	2.1829	2.1840	2.1852
2.1864	2.1876	2.1887	2.1899	2.1910	2.1922	2.1933
2.1944	2.1955	2.1967	2.1978	2.1989	2.2000	

COMPUTE NM HYD

ID=1 HYD NO=101.1 AREA=0.000400 SQ MI

PER A=00 PER B=32 PER C=0 PER D=30

TP=0.1333 HR MASS RAINFALL=-1

K = .072349HR TP = .133300HR K/TP RATIO = .543000 SHAPE
 CONSTANT, N = .06420
 UNIT PEAK = .60010 CFS UNIT VOLUME = .9515 2 = 326.28
 P40 = 1.5700
 AREA = .000152 SQ MI TA = .10000 INCHES TIME = .04000 1

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT

.033330

K = .126939HR TP = .133300HR K/TP RATIO = .952284 SHAPE
CONSTANT, N = 3.711349
UNIT PEAK = .62408 CFS UNIT VOLUME = .9787 B = 335.44
P60 = 1.8700
AREA = .000248 SQ MI IA = .47581 INCHES INF = 1.18226 I
NCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT

.033330

PRINT HYD

ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 1.18854 INCHES = .0254 ACRE-Feet
PEAK DISCHARGE RATE = 4.78 CFS AT 1.500 HOURS BASIN AREA =
.0004 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 07:33:36

AHYMD PROGRAM (AHYMD194) - AMAFCA Hydrologic Model - January, 1994
 RUN DATE (MON/DAY/YR) = 05/31/1995
 START TIME (HR:MIN:SEC) = 08:04:29 USER NO. = M_GOODDWN.I01
 INPUT FILE = SC2.DAT

START TIME=0.0

***** HYDROGRAPH FOR SAN CLEMENTE LOT 5A

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.87 IN RAIN SIX=2.20 IN

RAIN DAY=2.66 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	.0016	.0033	.0050	.0067	.0085	.0103
.0122	.0141	.0160	.0180	.0201	.0222	.0243
.0266	.0289	.0312	.0337	.0362	.0388	.0415
.0443	.0472	.0502	.0534	.0567	.0601	.0637
.0675	.0715	.0758	.0809	.0865	.0924	.1050
.1334	.1771	.2398	.3254	.4379	.5814	.7600
.9780	1.1804	1.2649	1.3363	1.3997	1.4575	1.5106
1.5600	1.6061	1.6493	1.6900	1.7284	1.7646	1.7959
1.8314	1.8623	1.8915	1.9193	1.9456	1.9518	1.9576
1.9630	1.9662	1.9732	1.9780	1.9825	1.9869	1.9912
1.9953	1.9993	2.0031	2.0068	2.0104	2.0140	2.0174
2.0207	2.0240	2.0272	2.0303	2.0333	2.0363	2.0392
2.0420	2.0448	2.0475	2.0502	2.0528	2.0554	2.0580
2.0605	2.0629	2.0653	2.0677	2.0700	2.0723	2.0746
2.0768	2.0790	2.0812	2.0833	2.0855	2.0875	2.0896
2.0916	2.0936	2.0956	2.0976	2.0995	2.1014	2.1033
2.1051	2.1070	2.1088	2.1106	2.1124	2.1141	2.1159
2.1176	2.1193	2.1210	2.1227	2.1244	2.1260	2.1276
2.1292	2.1308	2.1324	2.1340	2.1355	2.1371	2.1386
2.1401	2.1416	2.1431	2.1446	2.1460	2.1475	2.1489
2.1504	2.1518	2.1532	2.1546	2.1560	2.1573	2.1587
2.1600	2.1614	2.1627	2.1640	2.1654	2.1667	2.1680
2.1692	2.1705	2.1718	2.1731	2.1743	2.1756	2.1768
2.1780	2.1792	2.1804	2.1817	2.1829	2.1840	2.1852
2.1864	2.1876	2.1887	2.1899	2.1910	2.1922	2.1933
2.1944	2.1956	2.1967	2.1978	2.1989	2.2000	

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.000400 SS MI

PER A=00 PER B=53 PER C=10 PER D=37

TP=0.1333 HR MASS RAINFALL=-1

K = .0726494R TF = .133300HR K/TF RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 58451 CFS UNIT VOLUME = .9756 B = 526.28
 P60 = 1.8700

INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD DT
= .033330

K = .127004HR TP = .133300HR K/TP RATIO = .952767 SHAPE
CONSTANT, N = 3.709401

UNIT PEAK = .63389 CFS UNIT VOLUME = .9787 R = 335.31
P60 = 1.8700

AREA = .000252 SQ MI IA = .47619 INCHES INF = 1.18333 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 = 1.17554 INCHES = .0251 ACRE-Feet
PEAK DISCHARGE RATE = .78 CFS AT 1.500 HOURS BASIN AREA =
.0004 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 08:04:36

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
 RUN DATE (MON/DAY/YR) = 05/31/1995
 START TIME (HR:MIN:SEC) = 08:07:53 USER NO. = 1_GOODMAN,101
 INPUT FILE = SC2.DAT

START TIME=0.0

***** HYDROGRAPH FOR SAN CLEMENTE LOT 60

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.87 IN RAIN SIX=2.20 IN

RAIN DAY=2.66 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	.0016	.0033	.0050	.0067	.0083	.0100
.0122	.0141	.0160	.0180	.0201	.0222	.0243
.0266	.0289	.0312	.0337	.0362	.0388	.0415
.0443	.0472	.0502	.0534	.0567	.0601	.0637
.0675	.0715	.0758	.0809	.0865	.0924	.1050
.1334	.1771	.2398	.3254	.4379	.5814	.7600
.9780	1.1804	1.2649	1.3363	1.3997	1.4575	1.5106
1.5600	1.6061	1.6493	1.6900	1.7284	1.7646	1.7989
1.8314	1.8623	1.8915	1.9193	1.9456	1.9718	1.9976
1.9630	1.9682	1.9732	1.9780	1.9825	1.9869	1.9912
1.9953	1.9993	2.0031	2.0068	2.0104	2.0140	2.0174
2.0207	2.0240	2.0272	2.0303	2.0333	2.0363	2.0392
2.0420	2.0448	2.0475	2.0502	2.0528	2.0554	2.0580
2.0605	2.0629	2.0653	2.0677	2.0700	2.0723	2.0746
2.0768	2.0790	2.0812	2.0833	2.0855	2.0875	2.0896
2.0916	2.0936	2.0956	2.0976	2.0995	2.1014	2.1033
2.1051	2.1070	2.1088	2.1106	2.1124	2.1141	2.1159
2.1176	2.1193	2.1210	2.1227	2.1244	2.1260	2.1276
2.1292	2.1308	2.1324	2.1340	2.1355	2.1371	2.1386
2.1401	2.1416	2.1431	2.1446	2.1460	2.1475	2.1489
2.1504	2.1518	2.1532	2.1546	2.1560	2.1573	2.1587
2.1600	2.1614	2.1627	2.1640	2.1654	2.1667	2.1680
2.1692	2.1705	2.1718	2.1731	2.1743	2.1756	2.1768
2.1780	2.1792	2.1804	2.1817	2.1829	2.1840	2.1852
2.1864	2.1876	2.1887	2.1899	2.1910	2.1922	2.1933
2.1944	2.1956	2.1967	2.1978	2.1989	2.2000	

COMPUTE NM HYD

ID=1 HYD NO=101.1 AREA=0.000600 SQ MI

PER A=00 PER B=54 PER C=10 PER D=36

TP=0.1333 HR MASS RAINFALL=-1

K = .073644HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = .95278 CFS UNIT VOLUME = .9962 B = 326.28
 P60 = 1.5700

INCHES PER HOUR

RUNOFF COMPUTED

INITIAL ABSTRACTION/INFILTRATION

NUMBER METHOD

DT

= .033330

K = .127066HR

TP = .133300HR

K/TP RATIO = .953234

SHAPE

CONSTANT, N = 3.707520

UNIT PEAK = .96554

CFS

UNIT VOLUME = .9663

R = 335.17

P60 = 1.8700

AREA = .000384 SQ MI

IA = .47656 INCHES

INF = 1.18438 I

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 = 1.16255 INCHES

=

.0372 ACRE-Feet

PEAK DISCHARGE RATE =

1.15 CFS

AT

1.500 HOURS

BASIN AREA =

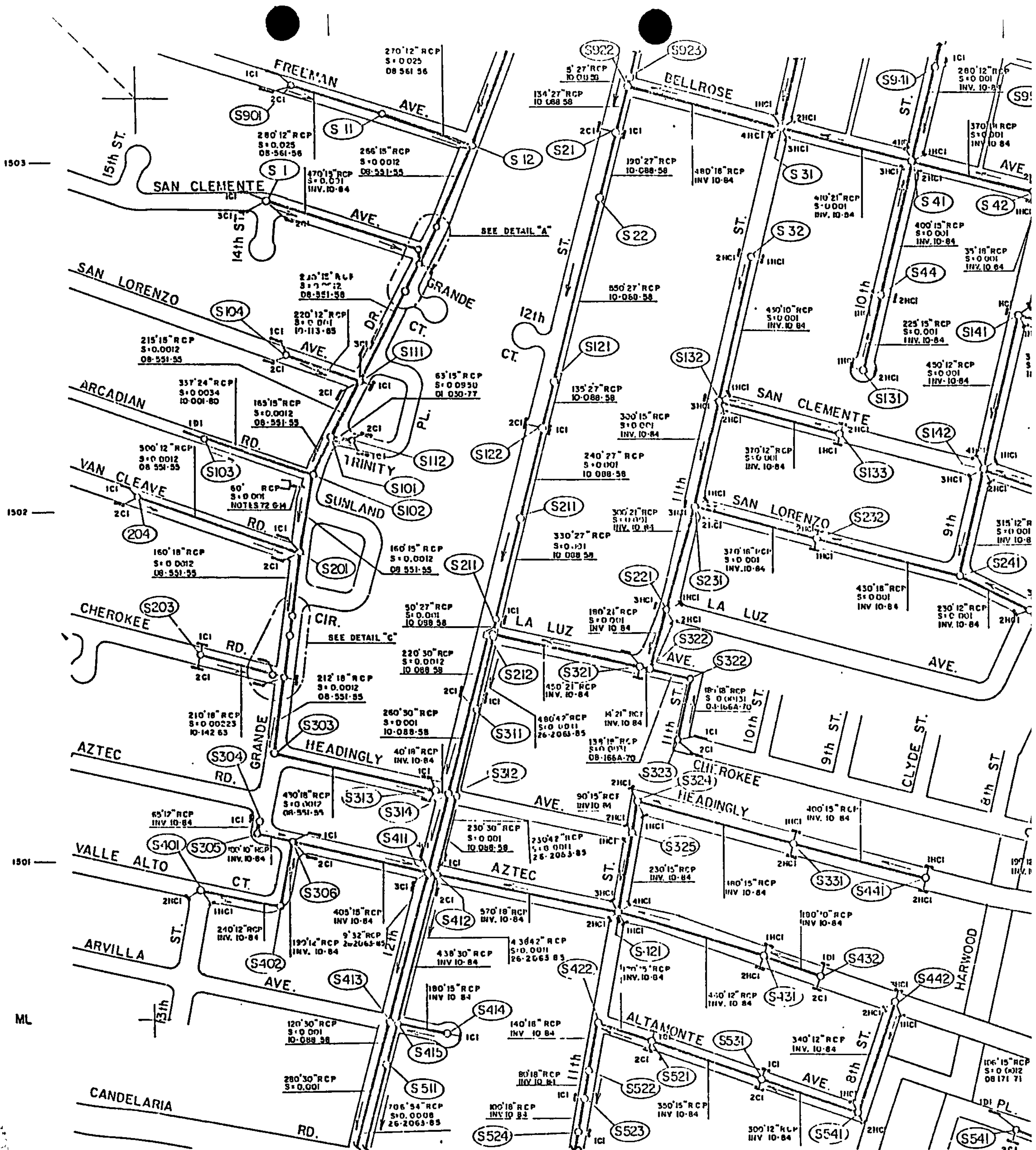
.0006 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 08:06:00

NEXT SHEET NO. G-13N



DETAIL "C"

DETAIL "B"

DETAIL "A"

NEXT SHEET

G-14N

[illegible]