

**THE APPENDIX FOR THE
HYDROLOGICAL ANALYSIS
OF THE
PARADISE POND WATERSHED**

**PREPARED FOR
CITY OF RENO**

PREPARED BY



JULY 1986

THE APPENDIX FOR THE
HYDROLOGIC ANALYSIS OF THE
PARADISE POND WATERSHED
City of Reno, Washoe County, Nevada

Prepared for
The City of Reno
Engineering Department

Prepared by
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Summary

This Appendix is used in conjunction with the report entitled "Hydrological Analysis of the Paradise Pond Watershed." This Appendix is divided into six different Appendices which show the six different hydrologic conditions determined for the Paradise Pond Watershed. Each Appendix shows the peak discharge and time the peak occurs in tabular form for the 3-hour, 6-hour- and 24-hour duration storm under the 5-year, 25-year, 50-year, 100-year storm frequency. Also, each Appendix has a series of hydrograph data for the 24-hour duration storm under the 5-year, 25-year, 50-year, and 100-year storm frequency. The following Appendices refer to the given hydrologic conditons:

- Appendix A - Condition No. 1
- Appendix B - Condition No. 2
- Appendix C - Condition No. 3
- Appendix D - Condition No. 4
- Appendix E - Condition No. 5
- Appendix F - Condition No. 6

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

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APPENDIX A

TABLE A-1

CONDITION NO. 1 WITH 3-HOUR DURATION STORM

Subarea Totals	5-Year 3-Hour	25-Year 3-Hour	50-Year 3-Hour	100-Year 3-Hour
A <i>Boice</i>	2.75 cfs @ 110 min.	11.20 cfs @ 80 min.	19.68 cfs @ 60 min.	33.80 cfs @ 60 min.
B	3.30 cfs @ 130 min.	13.47 cfs @ 105 min.	22.97 cfs @ 90 min.	38.01 cfs @ 75 min.
C	0.23 cfs @ 155 min.	1.48 cfs @ 75 min.	2.76 cfs @ 55 min.	5.15 cfs @ 50 min.
D	7.82 cfs @ 105 min.	26.45 cfs @ 80 min.	43.31 cfs @ 80 min.	68.04 cfs @ 75 min.
E	14.37 cfs @ 130 min.	47.14 cfs @ 105 min.	75.56 cfs @ 100 min.	116.72 cfs @ 95 min.
F	3.80 cfs @ 95 min.	14.40 cfs @ 50 min.	24.88 cfs @ 45 min.	44.08 cfs @ 35 min.
G	18.44 cfs @ 215 min.	60.21 cfs @ 200 min.	95.82 cfs @ 195 min.	147.56 cfs @ 190 min.
H	0.38 cfs @ 125 min.	2.03 cfs @ 75 min.	3.76 cfs @ 50 min.	6.72 cfs @ 50 min.
I	18.26 cfs @ 260 min.	59.53 cfs @ 245 min.	23.88 cfs @ 235 min.	145.96 cfs @ 230 min.
J	4.32 cfs @ 75 min.	14.74 cfs @ 50 min.	24.47 cfs @ 40 min.	40.34 cfs @ 40 min.
R.R.	4.50 cfs @ 260 min.	14.88 cfs @ 245 min.	23.60 cfs @ 235 min.	31.99 cfs @ 230 min.
K	4.02 cfs @ 150 min.	18.67 cfs @ 110 min.	32.43 cfs @ 95 min.	54.50 cfs @ 85 min.
L	7.17 cfs @ 160 min.	27.61 cfs @ 135 min.	46.47 cfs @ 120 min.	75.60 cfs @ 110 min.
M	11.36 cfs @ 80 min.	33.88 cfs @ 135 min.	55.63 cfs @ 130 min.	88.03 cfs @ 125 min.
N	16.55 cfs @ 55 min.	45.86 cfs @ 35 min.	71.60 cfs @ 35 min.	106.18 cfs @ 35 min.

TABLE A-1 - (con't)

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
O	2.00 cfs @ 50 min.	6.40 cfs @ 30 min.	10.77 cfs @ 30 min.	16.86 cfs @ 30 min.
P	4.65 cfs @ 115 min.	14.85 cfs @ 395 min.	23.56 cfs @ 390 min.	32.08 cfs @ 70 min.
Q	0.91 cfs @ 55 min.	2.85 cfs @ 35 min.	4.64 cfs @ 35 min.	7.19 cfs @ 30 min.
R	2.88 cfs @ 35 min.	6.41 cfs @ 30 min.	8.37 cfs @ 30 min.	10.95 cfs @ 30 min.
S	1.67 cfs @ 95 min.	6.12 cfs @ 55 min.	10.32 cfs @ 45 min.	17.40 cfs @ 35 min.
T	15.88 cfs @ 105 min.	45.28 cfs @ 90 min.	69.93 cfs @ 85 min.	104.60 cfs @ 85 min.
U	24.61 cfs @ 110 min.	71.13 cfs @ 95 min.	110.03 cfs @ 90 min.	165.73 cfs @ 85 min.
V	24.61 cfs @ 110 min.	71.13 cfs @ 95 min.	110.03 cfs @ 90 min.	165.73 cfs @ 85 min.

Paradise Pond Outlet; One 60-inch pipe under inlet condition:

1.24 cfs @ 110 min. w/5 ac.ft.	5.52 cfs @ 95 min. w/23 ac.ft.	10.44 cfs @ 90 min. w/33 ac.ft.	18.25 cfs @ 85 min. w/47 ac.ft.
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TABLE A-2

CONDITION NO. 1 WITH 6-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
A	4.44 cfs @ 215 min.	19.78 cfs @ 165 min.	32.51 cfs @ 165 min.	64.51 cfs @ 160 min.
B	5.58 cfs @ 235 min.	20.28 cfs @ 180 min.	33.25 cfs @ 180 min.	64.91 cfs @ 175 min.
C	0.53 cfs @ 360 min.	2.70 cfs @ 155 min.	5.56 cfs @ 150 min.	12.52 cfs @ 150 min.
D	14.25 cfs @ 160 min.	40.17 cfs @ 160 min.	60.64 cfs @ 160 min.	109.27 cfs @ 160 min.
E	22.64 cfs @ 215 min.	62.85 cfs @ 200 min.	93.42 cfs @ 200 min.	164.25 cfs @ 195 min.
F	7.48 cfs @ 155 min.	32.16 cfs @ 150 min.	50.44 cfs @ 150 min.	90.93 cfs @ 150 min.
G	30.85 cfs @ 320 min.	81.25 cfs @ 300 min.	118.63 cfs @ 295 min.	203.76 cfs @ 290 min.
H	0.72 cfs @ 245 min.	4.25 cfs @ 150 min.	7.88 cfs @ 150 min.	16.24 cfs @ 150 min.
I	40.22 cfs @ 360 min.	99.19 cfs @ 345 min.	141.93 cfs @ 340 min.	237.75 cfs @ 335 min.
J	9.55 cfs @ 155 min.	29.24 cfs @ 155 min.	42.94 cfs @ 150 min.	75.31 cfs @ 150 min.
R.R.	10.41 cfs @ 360 min.	25.11 cfs @ 345 min.	31.94 cfs @ 340 min.	34.20 cfs @ 335 min.
K	7.61 cfs @ 265 min.	26.83 cfs @ 185 min.	45.40 cfs @ 180 min.	91.94 cfs @ 180 min.
L	12.91 cfs @ 270 min.	38.44 cfs @ 225 min.	60.12 cfs @ 220 min.	112.34 cfs @ 215 min.
M	20.12 cfs @ 170 min.	50.82 cfs @ 170 min.	72.54 cfs @ 165 min.	126.19 cfs @ 230 min.
N	36.35 cfs @ 150 min.	82.24 cfs @ 150 min.	111.54 cfs @ 150 min.	174.64 cfs @ 150 min.

TABLE A-2 - (con't)

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
O	5.15 cfs @ 150 min.	12.08 cfs @ 150 min.	16.96 cfs @ 145 min.	27.45 cfs @ 145 min.
P	10.39 cfs @ 570 min.	25.08 cfs @ 560 min.	31.94 cfs @ 560 min.	50.56 cfs @ 175 min.
Q	2.23 cfs @ 150 min.	5.48 cfs @ 150 min.	7.63 cfs @ 150 min.	12.16 cfs @ 150 min.
R	5.13 cfs @ 150 min.	8.44 cfs @ 150 min.	10.90 cfs @ 150 min.	31.06 cfs @ 145 min.
S	3.58 cfs @ 155 min.	12.34 cfs @ 150 min.	19.23 cfs @ 150 min.	34.51 cfs @ 150 min.
T	25.76 cfs @ 195 min.	63.72 cfs @ 190 min.	90.43 cfs @ 190 min.	149.37 cfs @ 185 min.
U	39.04 cfs @ 200 min.	98.93 cfs @ 190 min.	141.74 cfs @ 185 min.	237.80 cfs @ 185 min.
V	39.04 cfs @ 200 min.	98.93 cfs @ 190 min.	141.74 cfs @ 185 min.	238.00 cfs @ 185 min.
Paradise Pond Outlet; one 60-inch pipe under inlet condition:				
	3.15 cfs @ 200 min. w/17.5 ac.ft.	12.04 cfs @ 190 min. w/36 ac.ft.	19.27 cfs @ 185 min. w/48.5 ac.ft.	31.75 cfs @ 185 min. w/65 ac.ft.

TABLE A-3

CONDITION NO. 1 WITH 24-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 24-Hour</u>	<u>25-Year 24-Hour</u>	<u>50-Year 24-Hour</u>	<u>100-Year 24-Hour</u>
A	61.48 cfs @ 730 min.	158.82 cf @ 730 min.	237.00 cfs @ 730 min.	278.60 cfs @ 730 min.
B	54.62 cfs @ 745 min.	143.92 cfs @ 740 min.	217.10 cfs @ 740 min.	256.20 cfs @ 740 min.
C	14.36 cfs @ 720 min.	41.29 cfs @ 720 min.	63.42 cfs @ 720 min.	75.30 cfs @ 720 min.
D	104.77 cfs @ 725 min.	241.01 cfs @ 725 min.	348.08 cfs @ 725 min.	404.57 cfs @ 725 min.
E	121.82 cfs @ 760 min.	291.19 cfs @ 755 min.	425.59 cfs @ 755 min.	496.81 cfs @ 755 min.
F	110.52 cfs @ 720 min.	258.26 cfs @ 720 min.	373.59 cfs @ 720 min.	434.25 cfs @ 720 min.
G	139.30 cfs @ 850 min.	326.44 cfs @ 850 min.	474.56 cfs @ 850 min.	552.88 cfs @ 850 min.
H	19.74 cfs @ 720 min.	52.44 cfs @ 720 min.	78.85 cfs @ 720 min.	92.93 cfs @ 720 min.
I	151.41 cfs @ 735 min.	351.63 cfs @ 735 min.	512.01 cfs @ 735 min.	598.45 cfs @ 730 min.
J	80.99 cfs @ 725 min.	176.79 cfs @ 720 min.	253.47 cfs @ 720 min.	293.67 cfs @ 720 min.
R.R.	31.73 cfs @ 735 min.	36.35 cfs @ 735 min.	45.02 cfs @ 735 min.	55.69 cfs @ 730 min.
K	75.30 cfs @ 745 min.	209.81 cfs @ 745 min.	320.32 cfs @ 745 min.	379.60 cfs @ 745 min.
L	82.34 cfs @ 730 min.	211.65 cfs @ 780 min.	319.37 cfs @ 780 min.	377.00 cfs @ 780 min.
M	106.17 cfs @ 735 min.	228.51 cfs @ 735 min.	326.67 cfs @ 735 min.	382.15 cfs @ 795 min.
N	201.78 cfs @ 720 min.	425.35 cfs @ 720 min.	603.78 cfs @ 720 min.	680.65 cfs @ 720 min.

TABLE A-3 - (con't)

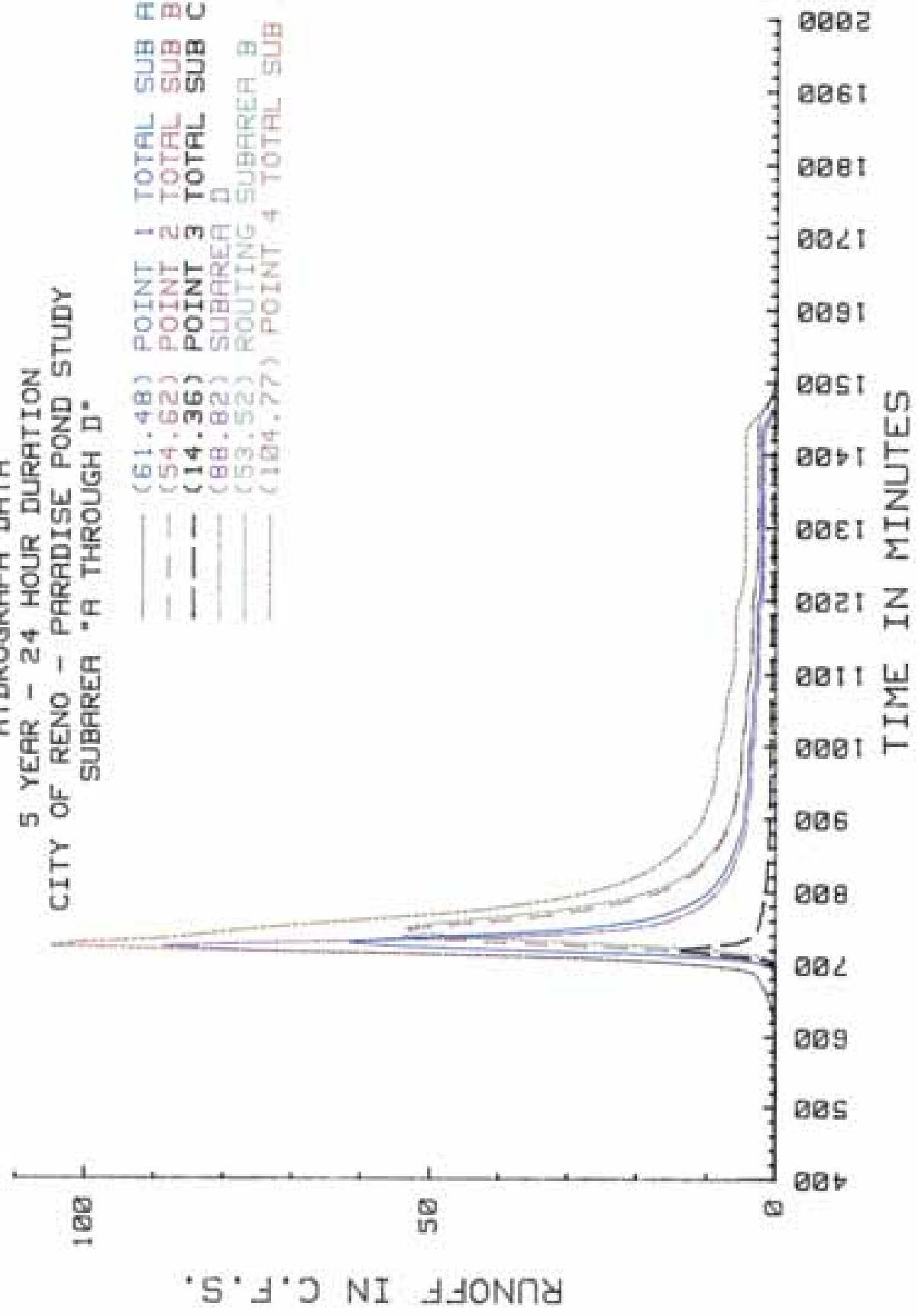
<u>Subarea Totals</u>	<u>5-Year 24-Hour</u>	<u>25-Year 24-Hour</u>	<u>50-Year 24-Hour</u>	<u>100-Year 24-Hour</u>
O	35.20 cfs @ 720 min.	70.00 cfs @ 720 min.	95.73 cfs @ 720 min.	108.98 cfs @ 720 min.
P	43.86 cfs @ 745 min.	97.13 cfs @ 740 min.	139.50 cfs @ 740 min.	161.96 cfs @ 740 min.
Q	14.88 cfs @ 720 min.	30.18 cfs @ 720 min.	41.59 cfs @ 720 min.	47.48 cfs @ 720 min.
R	37.09 cfs @ 720 min.	68.34 cfs @ 720 min.	90.86 cfs @ 720 min.	102.36 cfs @ 720 min.
S	37.35 cfs @ 720 min.	87.07 cfs @ 720 min.	125.88 cfs @ 720 min.	146.28 cfs @ 720 min.
T	120.10 cfs @ 755 min.	256.49 cfs @ 755 min.	365.04 cfs @ 755 min.	422.16 cfs @ 755 min.
U	191.71 cfs @ 745 min.	426.02 cfs @ 740 min.	614.36 cfs @ 740 min.	713.96 cfs @ 740 min.
V	191.71 cfs @ 745 min.	433.38 cfs @ 740 min.	636.10 cfs @ 740 min.	744.88 cfs @ 740 min.

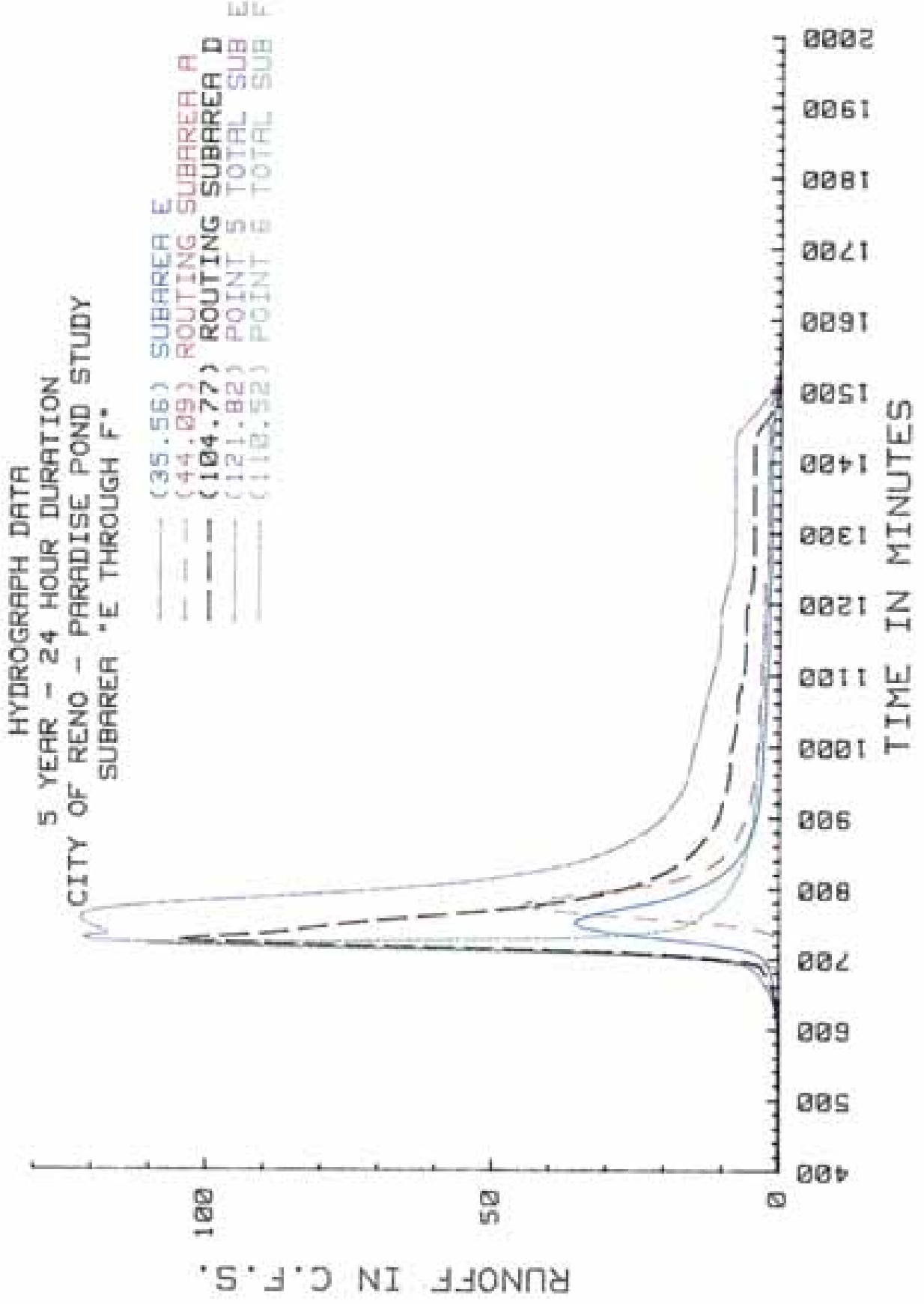
Paradise Pond Outlet; one 60-inch pipe under inlet condition:

25.19 cfs @ 745 min.	51.55 cfs @ 740 min.	71.78 cfs @ 740 min.	82.57 cfs @ 740 min.
w/55.9 ac.ft.	w/88.7 ac.ft.	w/115.4 ac.ft.	w/129.4 ac.ft.

HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "A THROUGH D"

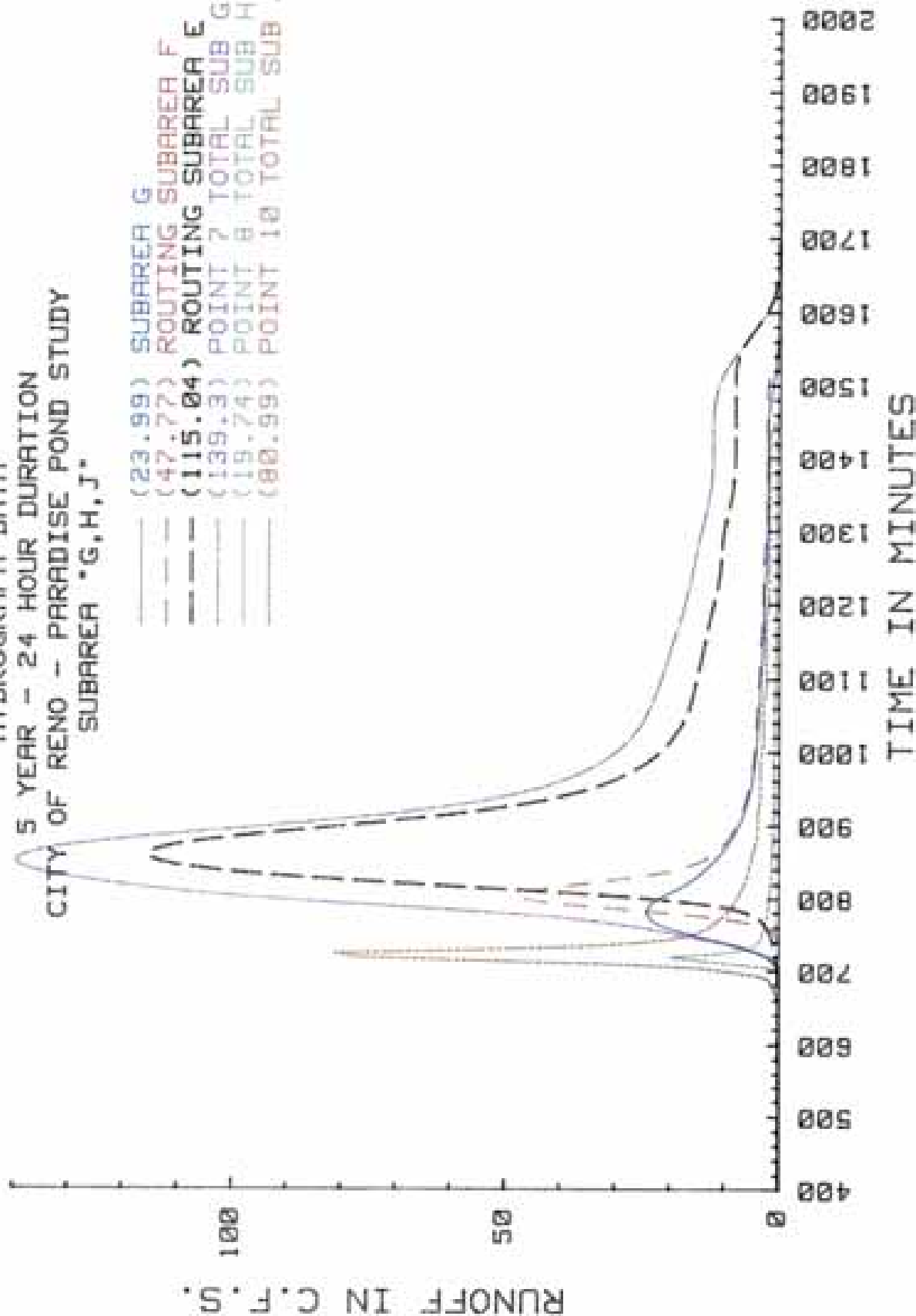
(61.48) POINT 1 TOTAL SUB A
 (54.62) POINT 2 TOTAL SUB B
 (14.36) POINT 3 TOTAL SUB C
 (88.82) SUBAREA D
 (53.52) ROUTING SUBAREA B
 (104.77) POINT 4 TOTAL SUB D





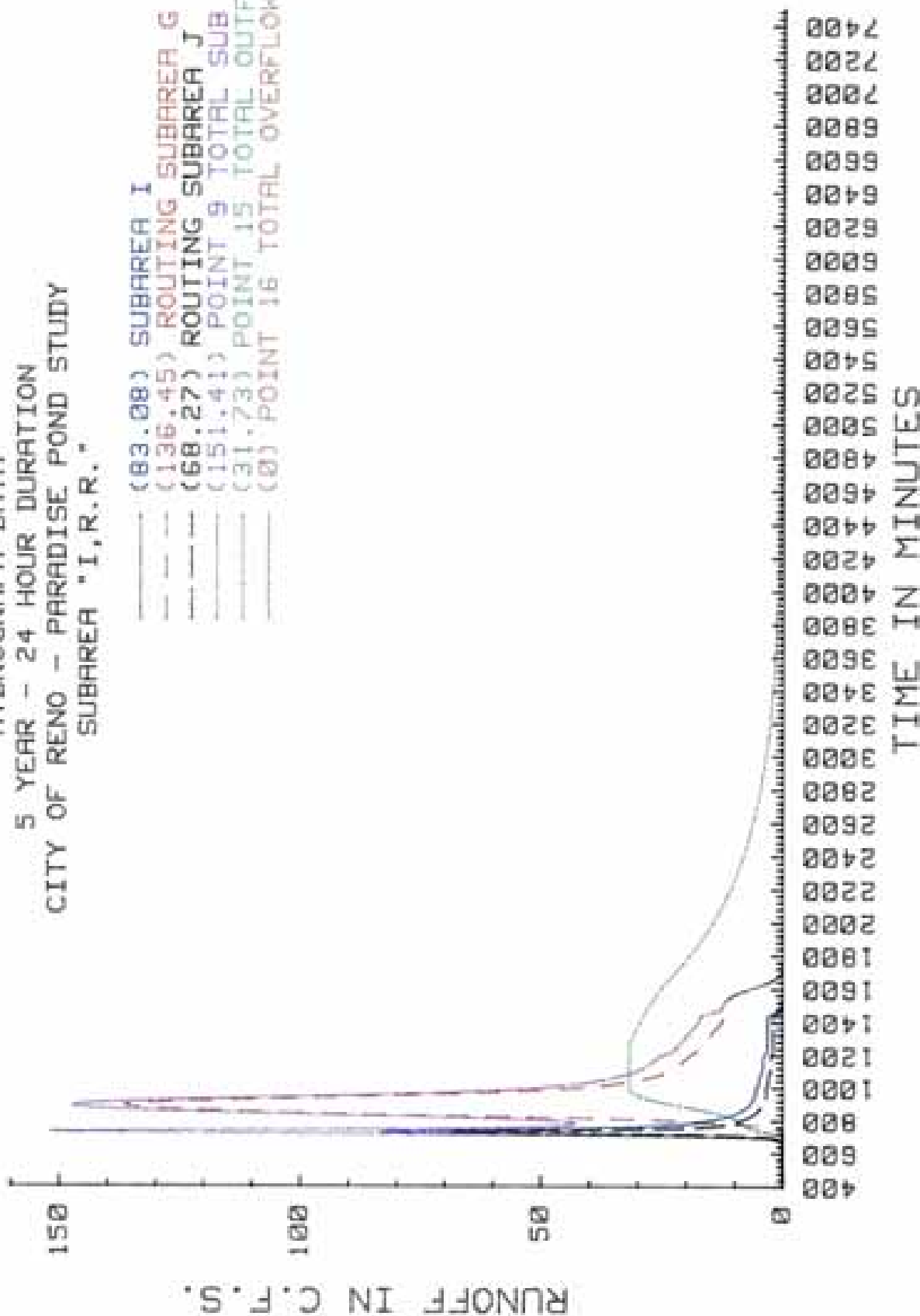
HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "G,H,J"

- (23.99) SUBAREA G
- (47.77) ROUTING SUBAREA F
- (115.04) ROUTING SUBAREA E
- (139.3) POINT 7 TOTAL SUB G
- (19.74) POINT 8 TOTAL SUB H
- (80.99) POINT 10 TOTAL SUB J



HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "I, R.R."

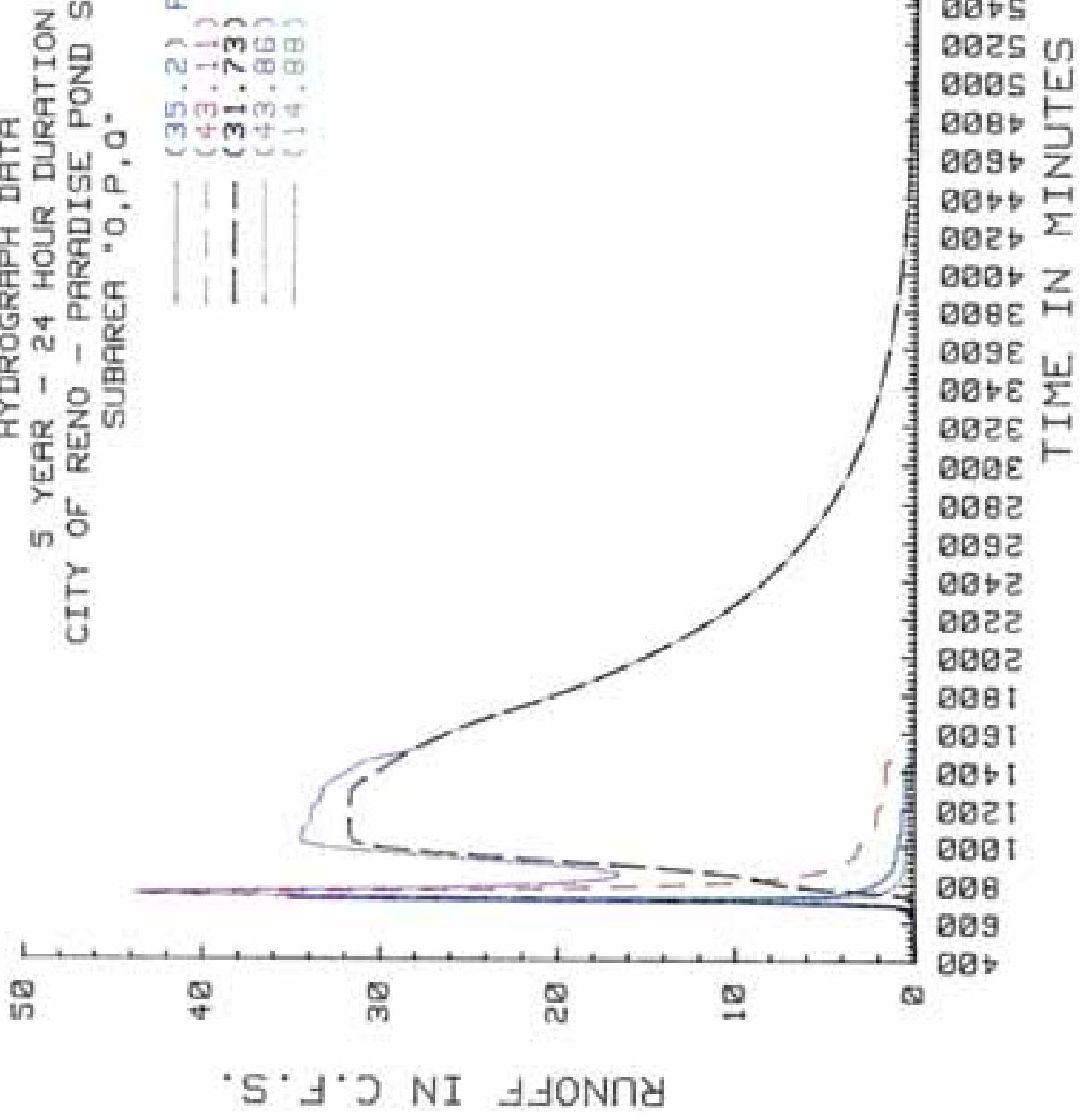
- _____ (83.08) SUBAREA I
- (136.45) ROUTING SUBAREA G
- (68.27) ROUTING SUBAREA J
- (151.41) POINT 9 TOTAL SUB I
- (31.73) POINT 15 TOTAL OUTFLOW
- (0) POINT 16 TOTAL OVERFLOW



TIME IN MINUTES

HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "O.P.O."

--- (35.2) POINT 5 TOTAL SUB O
 --- (43.11) SUBAREA P
 --- (31.73) ROUTING SUBAREA I
 --- (43.86) POINT 6 TOTAL SUB P
 --- (14.88) POINT 7 TOTAL SUB Q

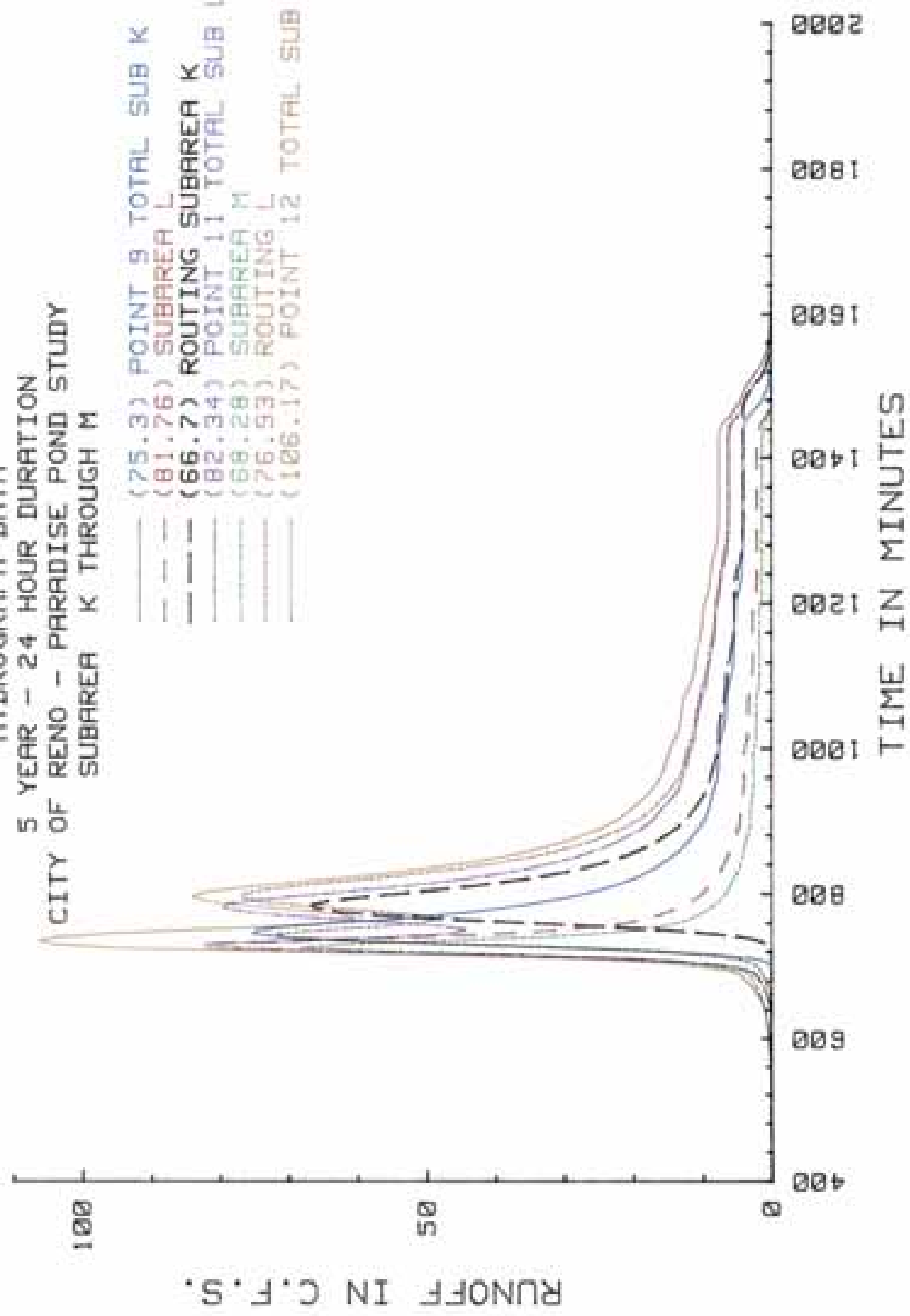


TIME IN MINUTES

RUNOFF IN C.F.S.

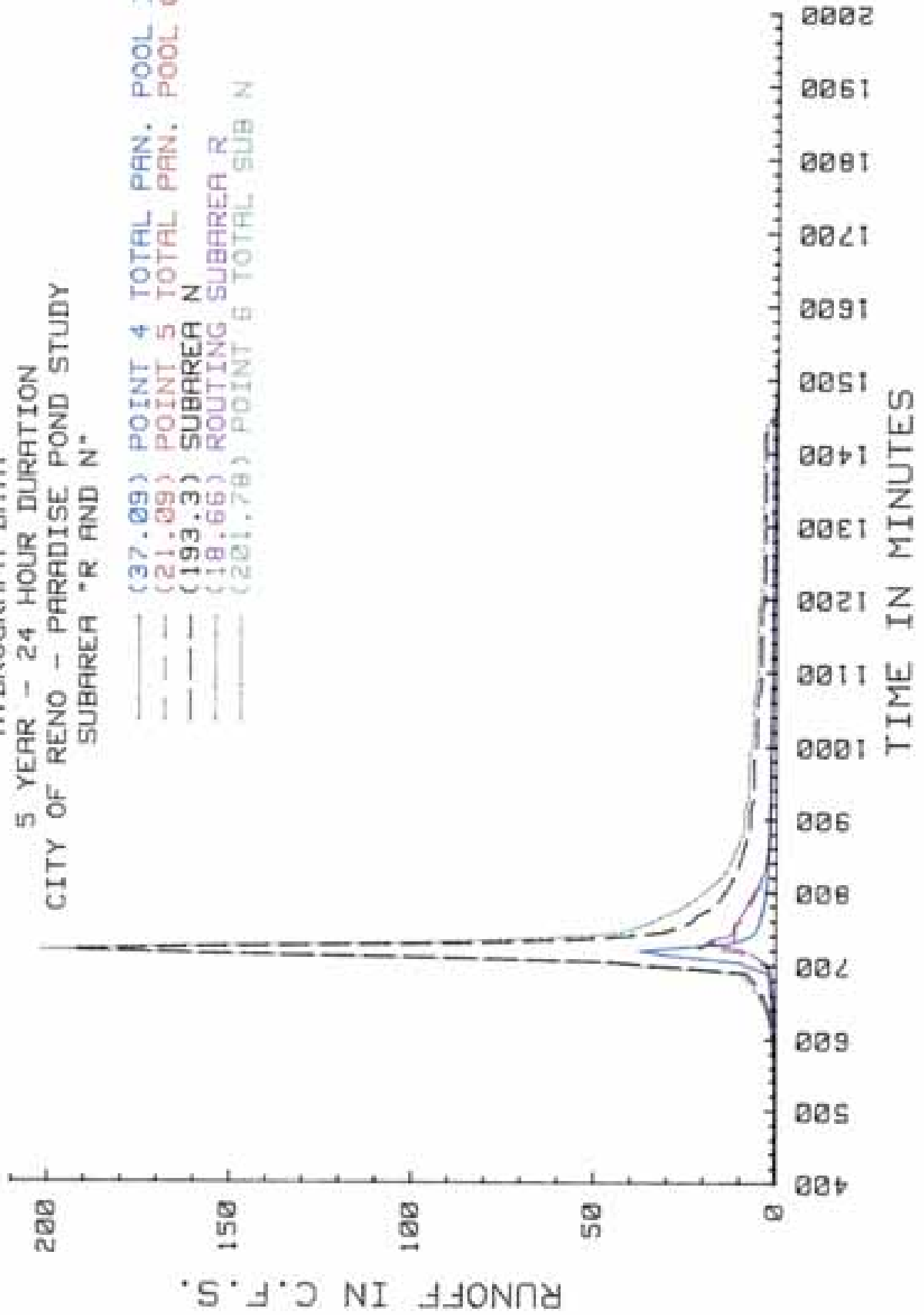
HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA K THROUGH M

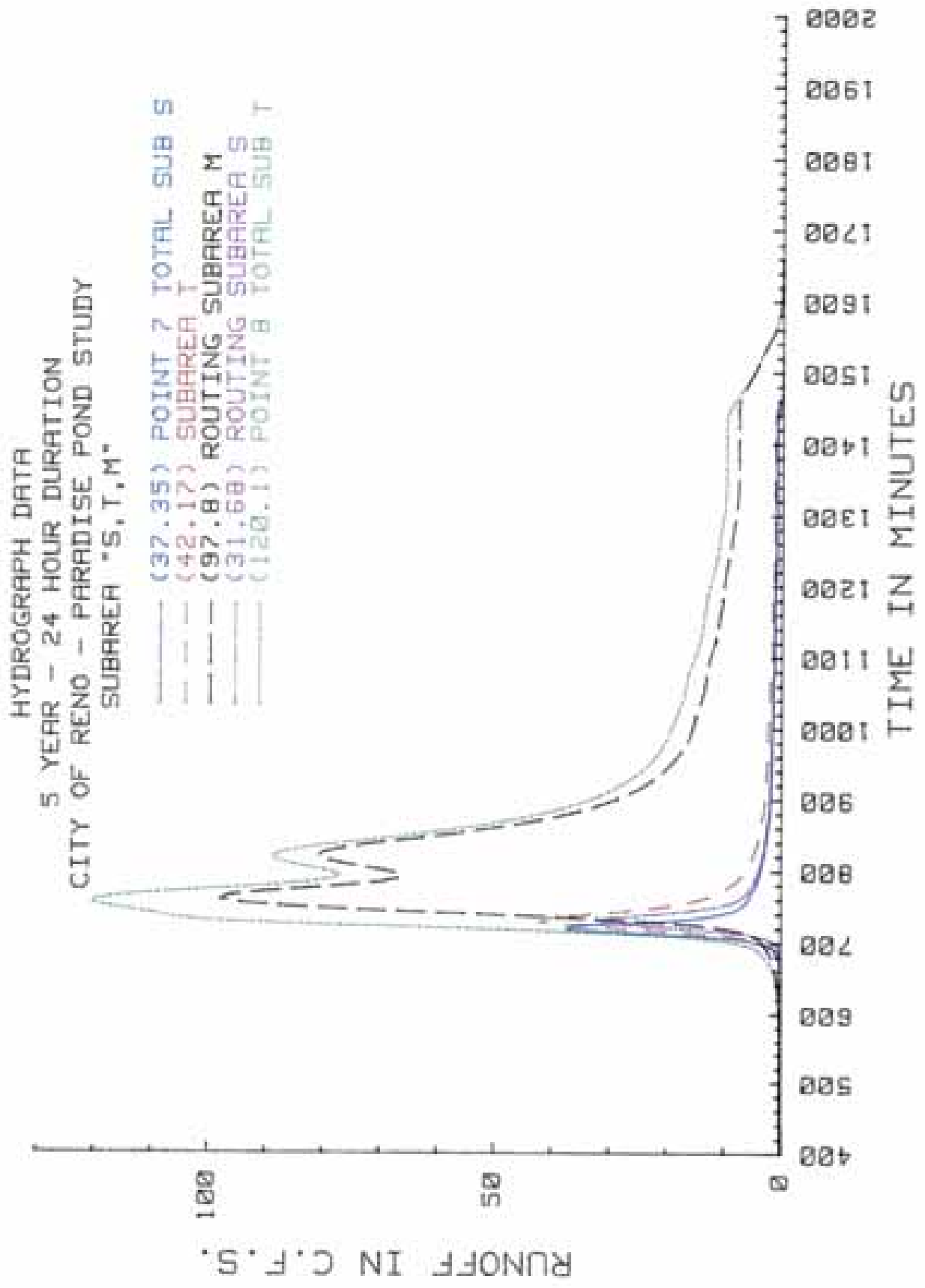
- (75.3) POINT 9 TOTAL SUB K
- (81.76) SUBAREA L
- (66.7) ROUTING SUBAREA K
- (82.34) POINT 11 TOTAL SUB L
- (68.28) SUBAREA M
- (76.93) ROUTING L
- (106.17) POINT 12 TOTAL SUB M



HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "R AND N"

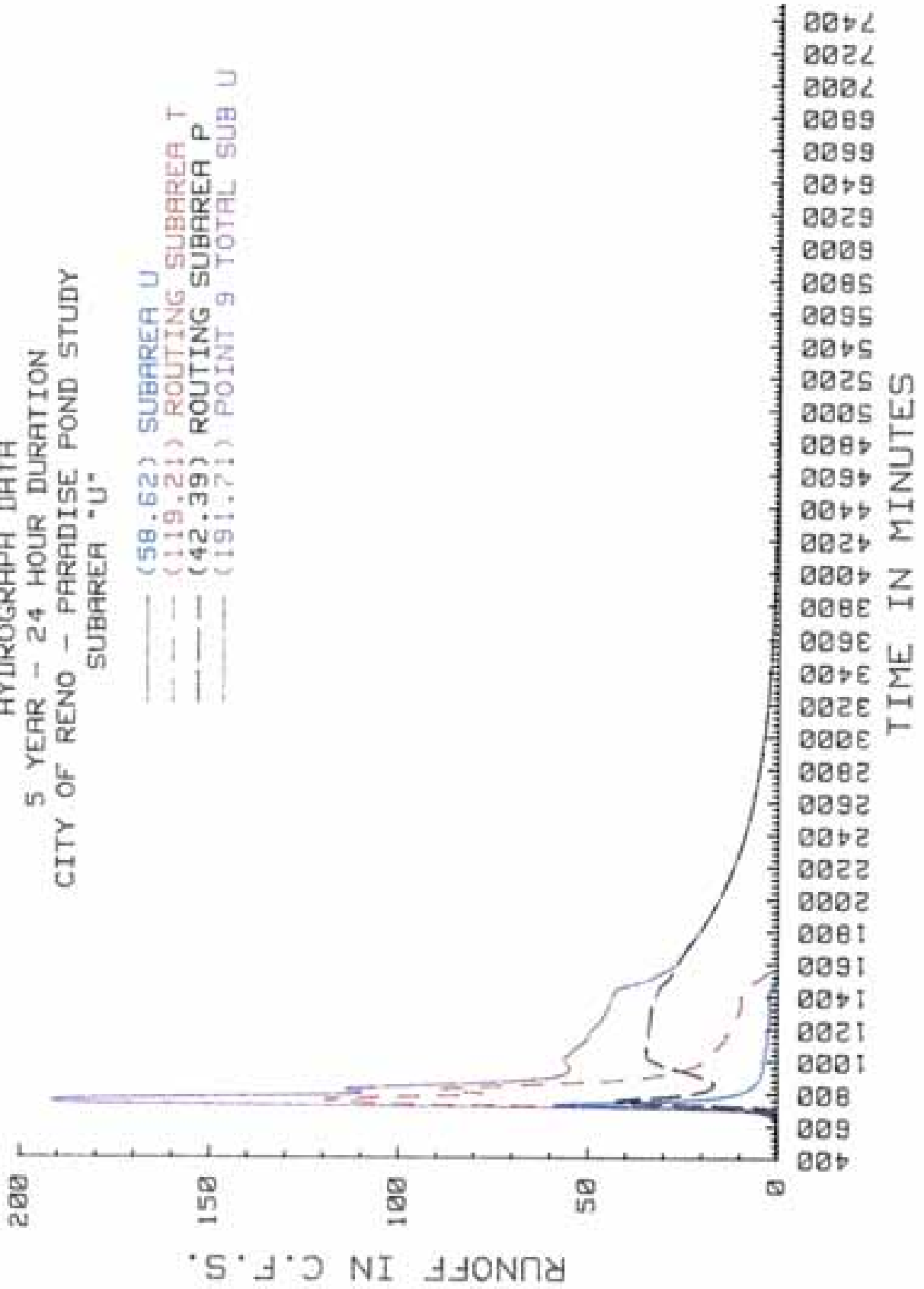
(37.09) POINT 4 TOTAL PAN. POOL IN.
(21.09) POINT 5 TOTAL PAN. POOL OUT.
(193.3) SUBAREA N
(18.66) ROUTING SUBAREA R
(201.78) POINT 6 TOTAL SUB N





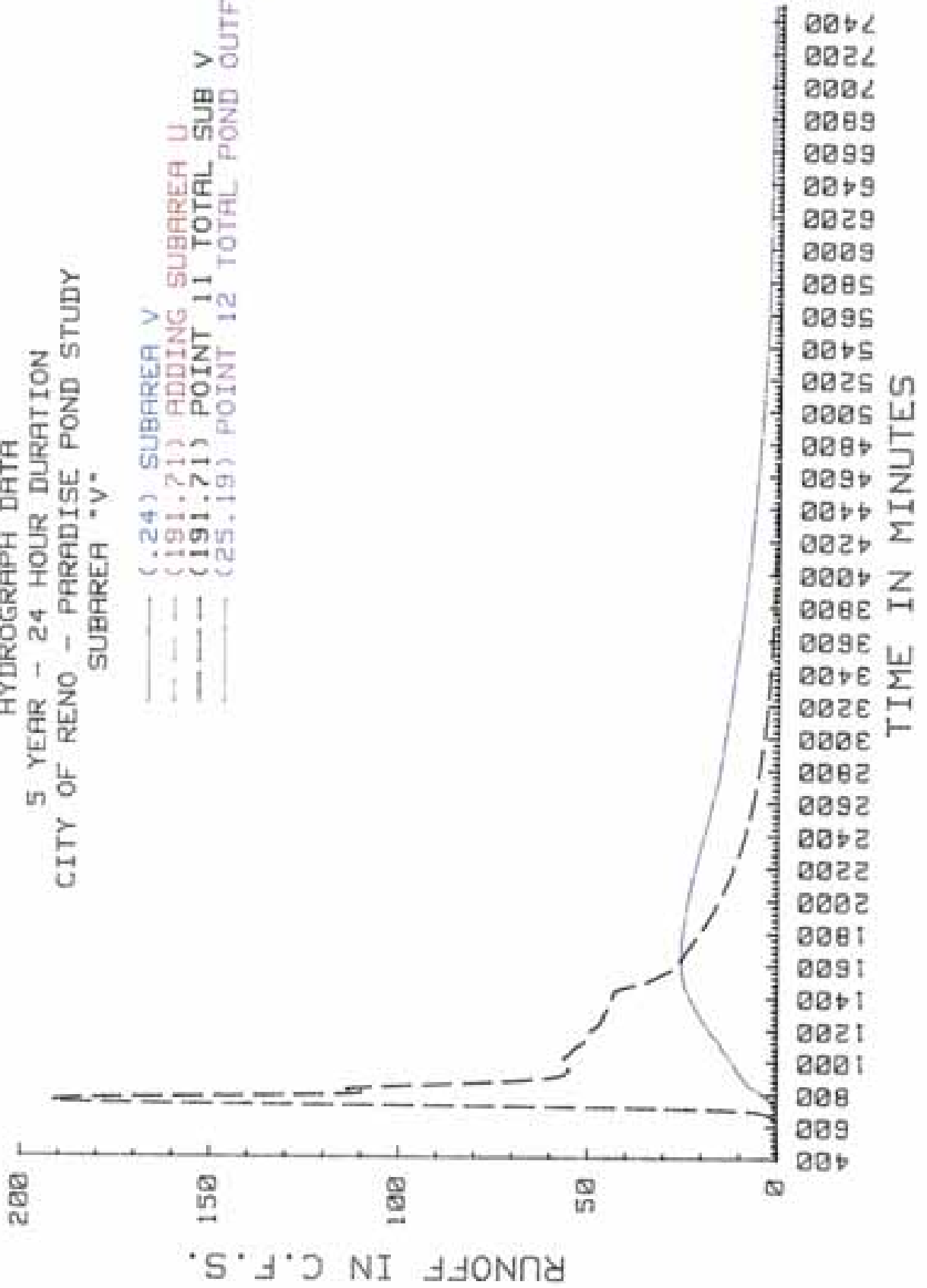
HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "U"

_____ (50.62) SUBAREA U
 - - - - - (119.21) ROUTING SUBAREA T
 - - - - - (42.39) ROUTING SUBAREA P
 _____ (191.71) POINT 9 TOTAL SUB U



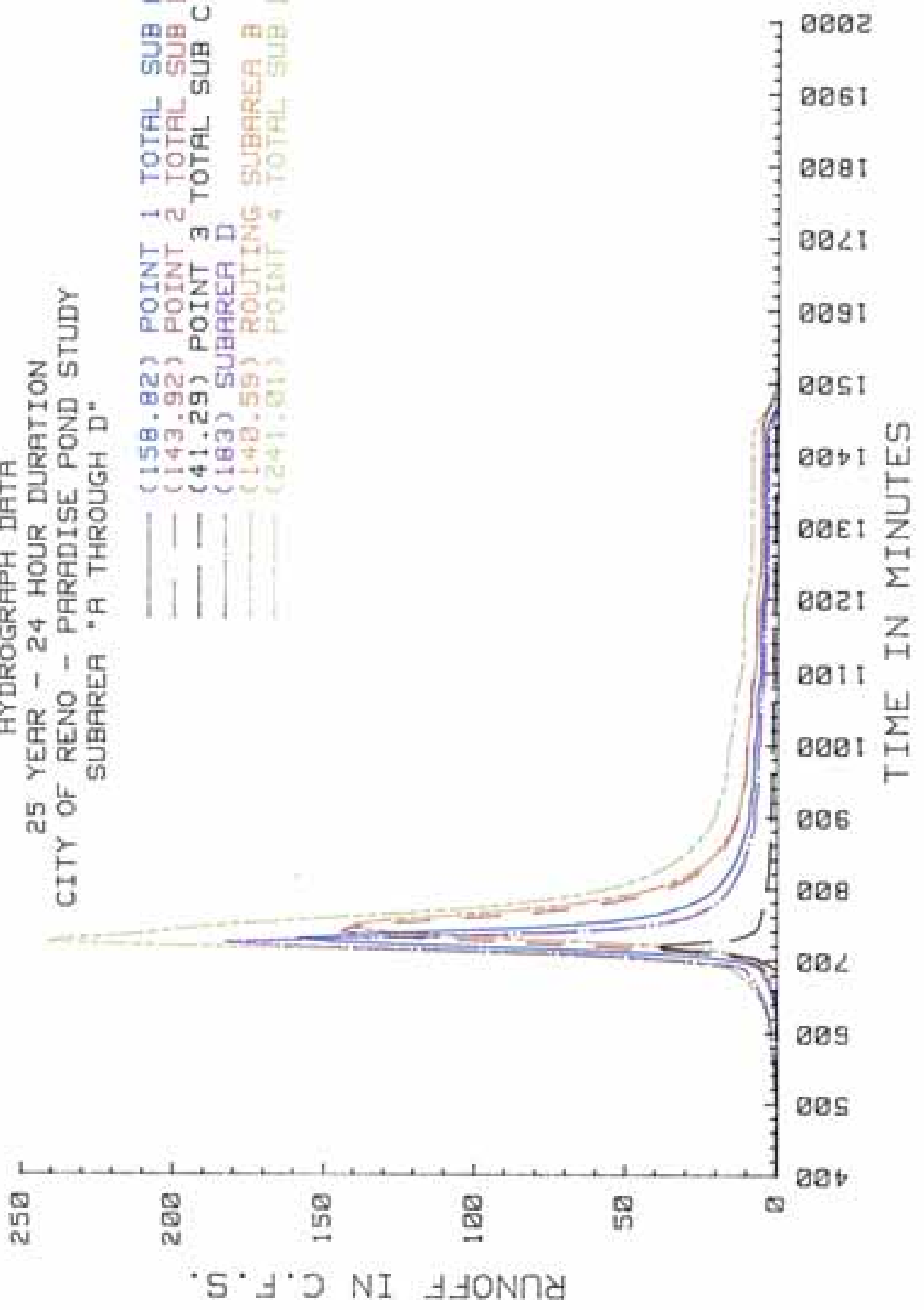
HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

(.24) SUBAREA V
 (191.71) ADDING SUBAREA U
 (191.71) POINT 11 TOTAL SUB V
 (25.19) POINT 12 TOTAL POND OUTFLOW



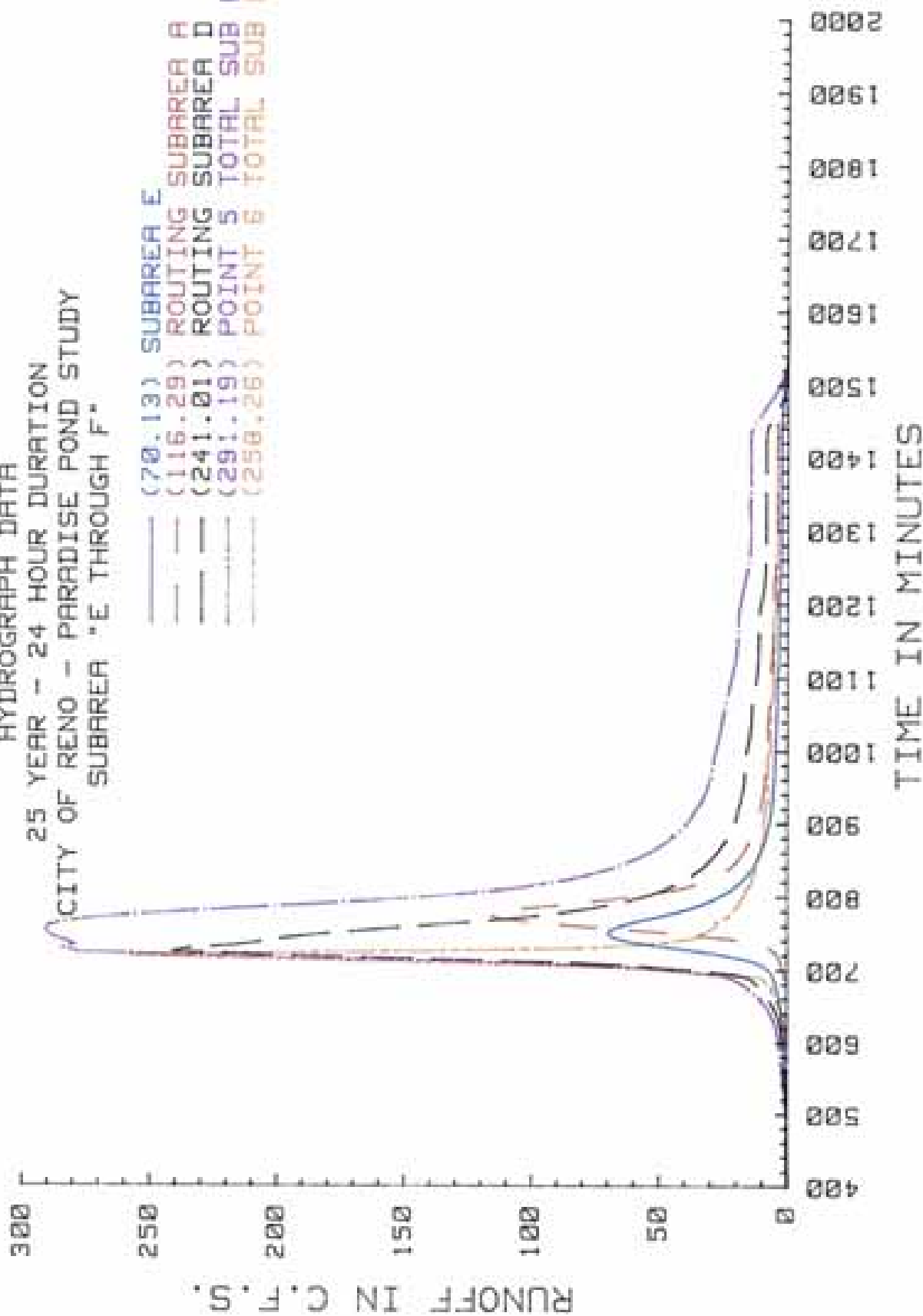
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "A THROUGH D"

---	(158.82)	POINT 1	TOTAL	SUB A
---	(143.92)	POINT 2	TOTAL	SUB B
---	(41.29)	POINT 3	TOTAL	SUB C
---	(183)	SUBAREA		D
---	(148.59)	ROUTING		SUBAREA B
---	(241.81)	POINT 4	TOTAL	SUB D



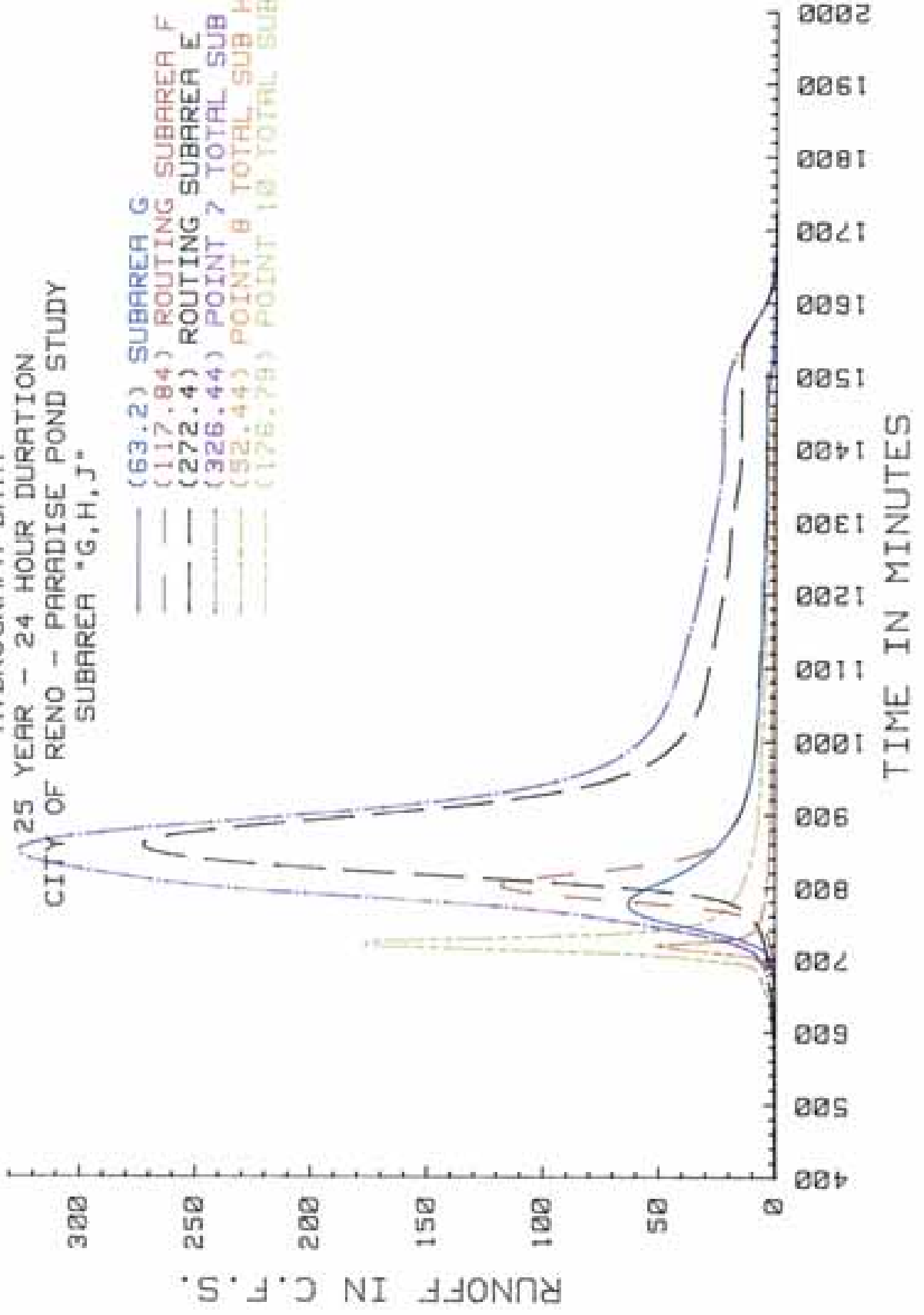
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "E THROUGH F"

(70.13)	SUBAREA E
(116.29)	ROUTING SUBAREA A
(241.01)	ROUTING SUBAREA D
(291.19)	POINT 5 TOTAL SUB E
(250.26)	POINT 6 TOTAL SUB F



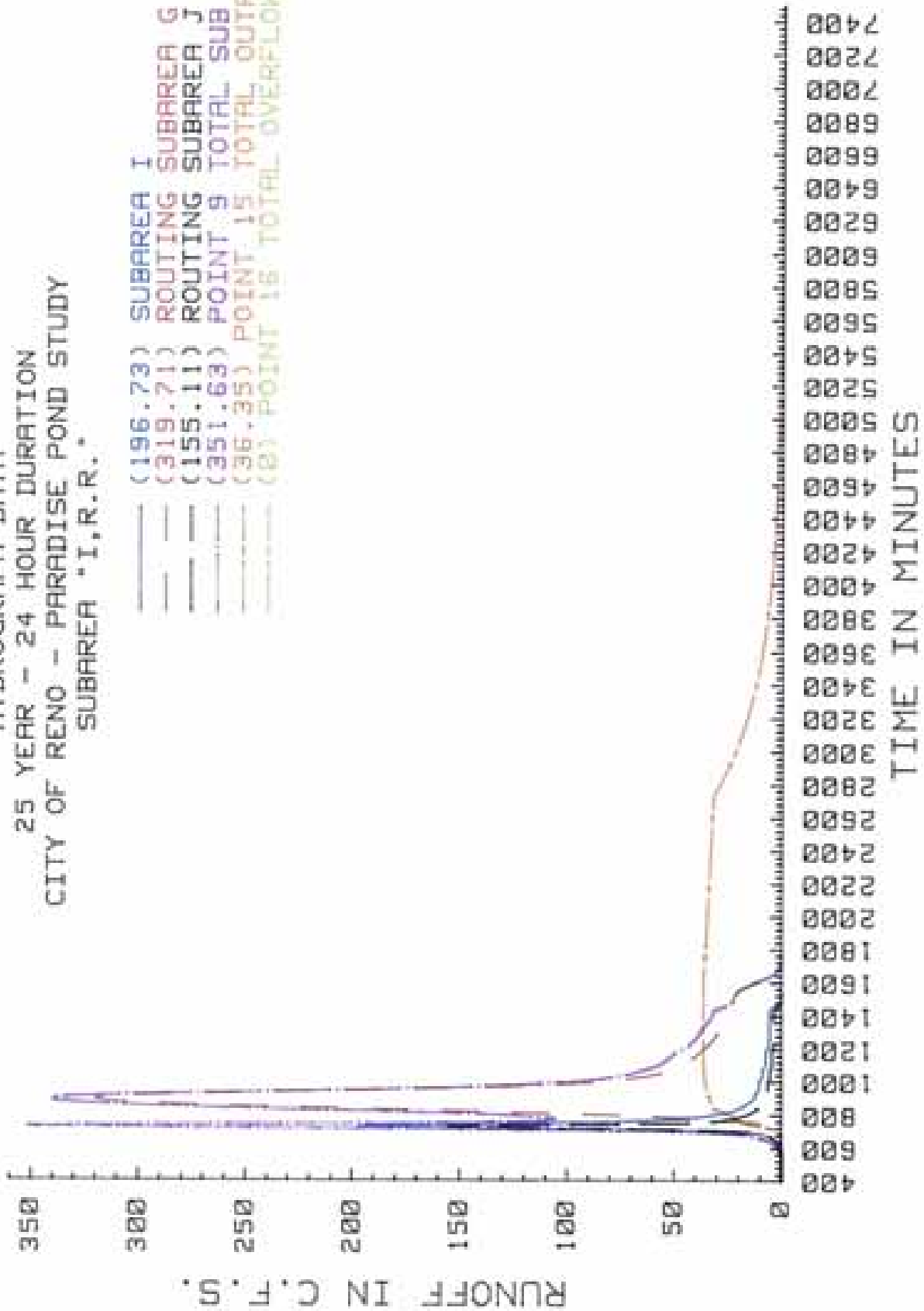
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "G,H,J"

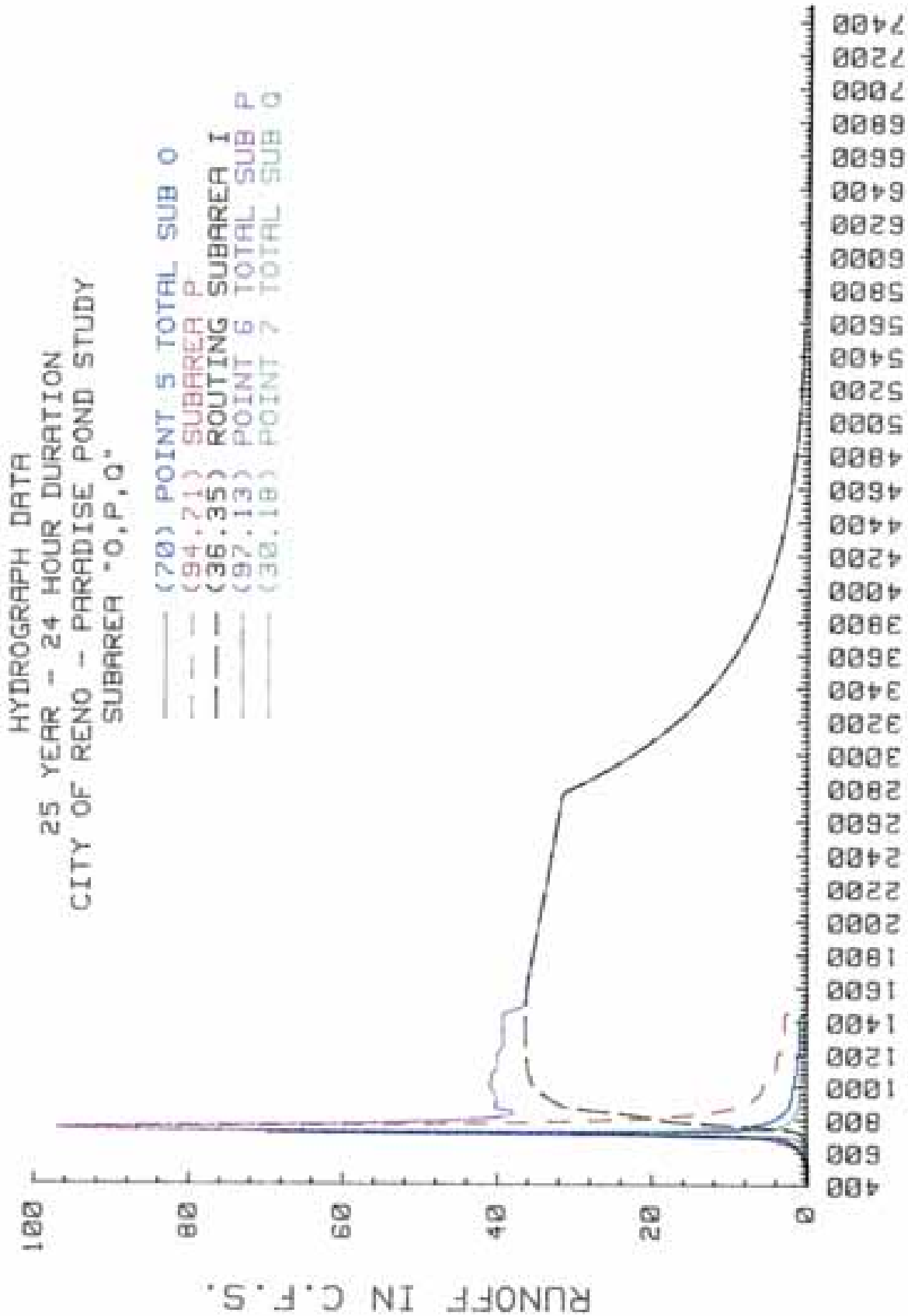
- (63.2) SUBAREA G
- (117.84) ROUTING SUBAREA F
- (272.4) ROUTING SUBAREA E
- (326.44) POINT 7 TOTAL SUB G
- (52.44) POINT 8 TOTAL SUB H
- (176.79) POINT 10 TOTAL SUB J

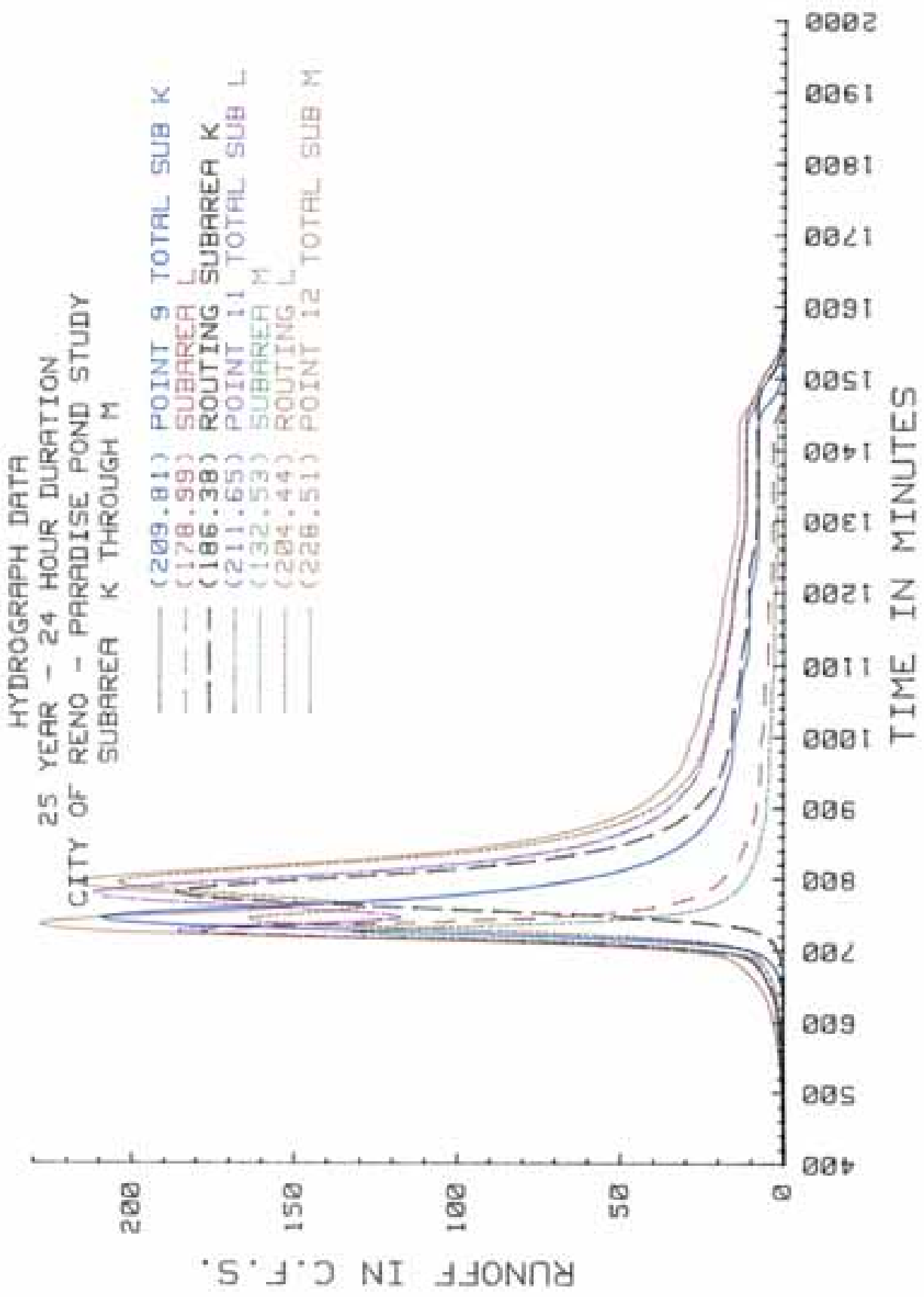


HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "I,R.R."

---	(196.73) SUBAREA I	ROUTING SUBAREA G	
---	(319.71) SUBAREA J	ROUTING SUBAREA J	
---	(155.11) SUBAREA K	POINT 9 TOTAL SUB I	
---	(351.63) SUBAREA L	POINT 15 TOTAL OUTFLOW	
---	(36.35) SUBAREA M	POINT 15 TOTAL OVERFLOW	
---	(8) SUBAREA N		

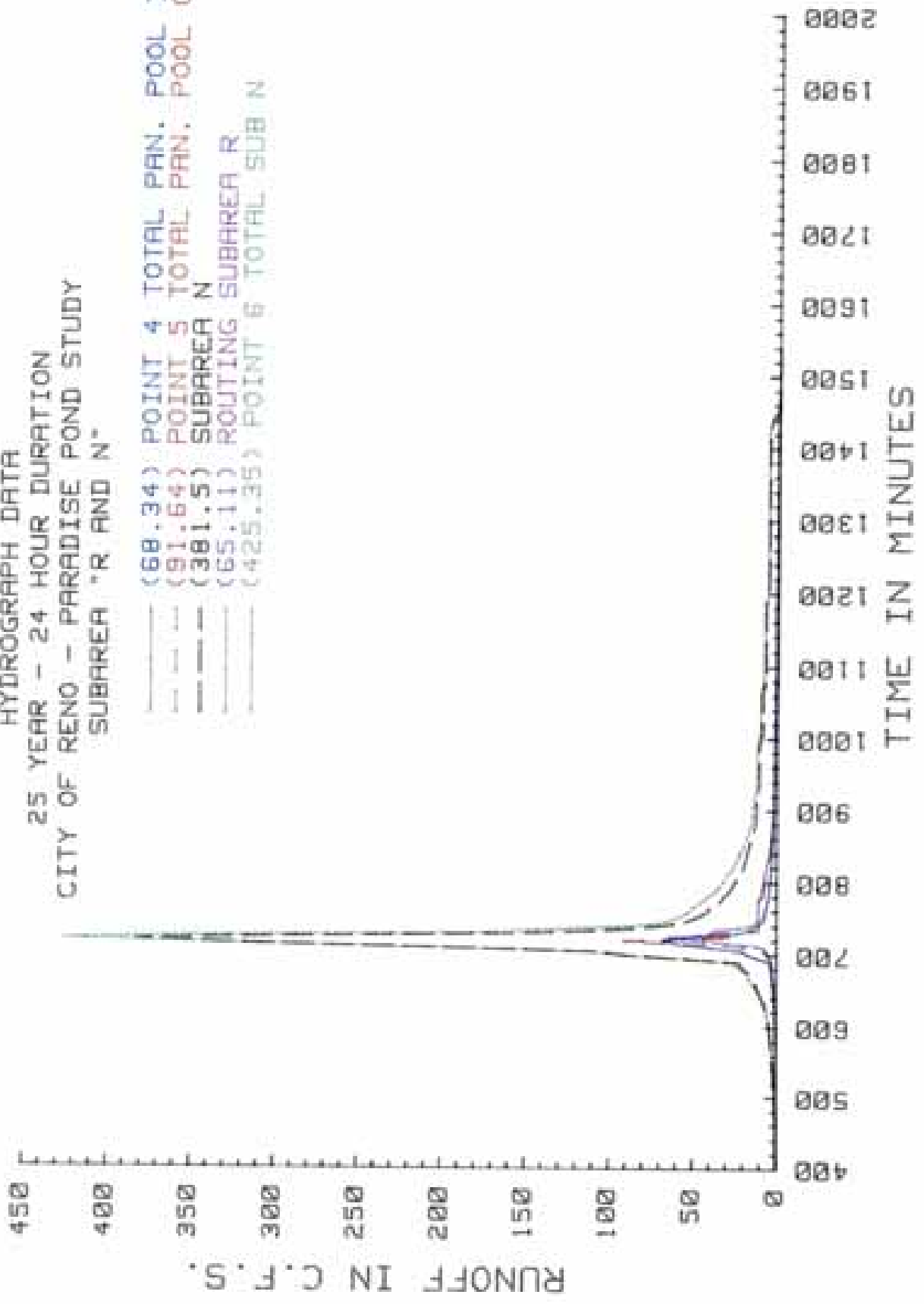


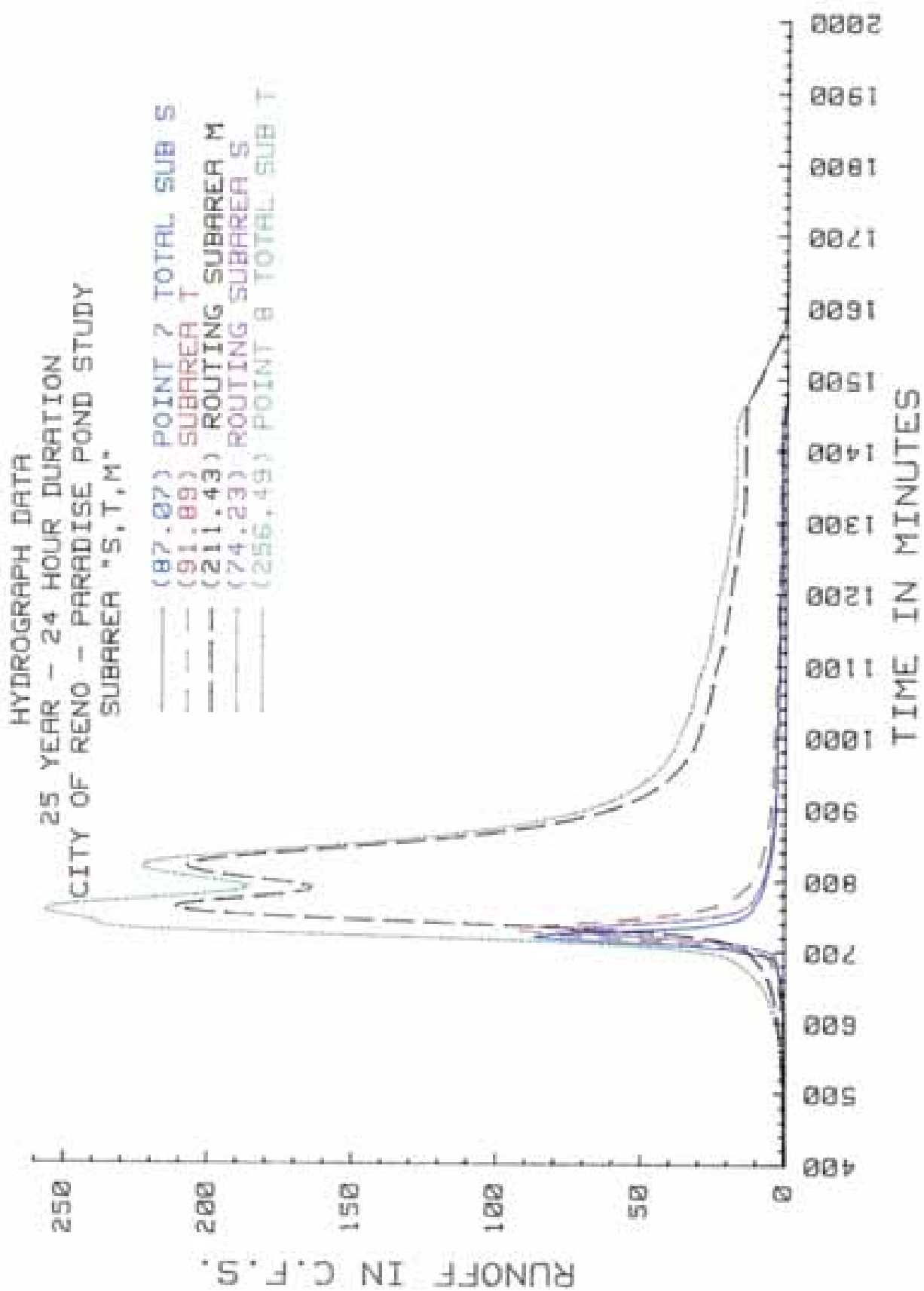


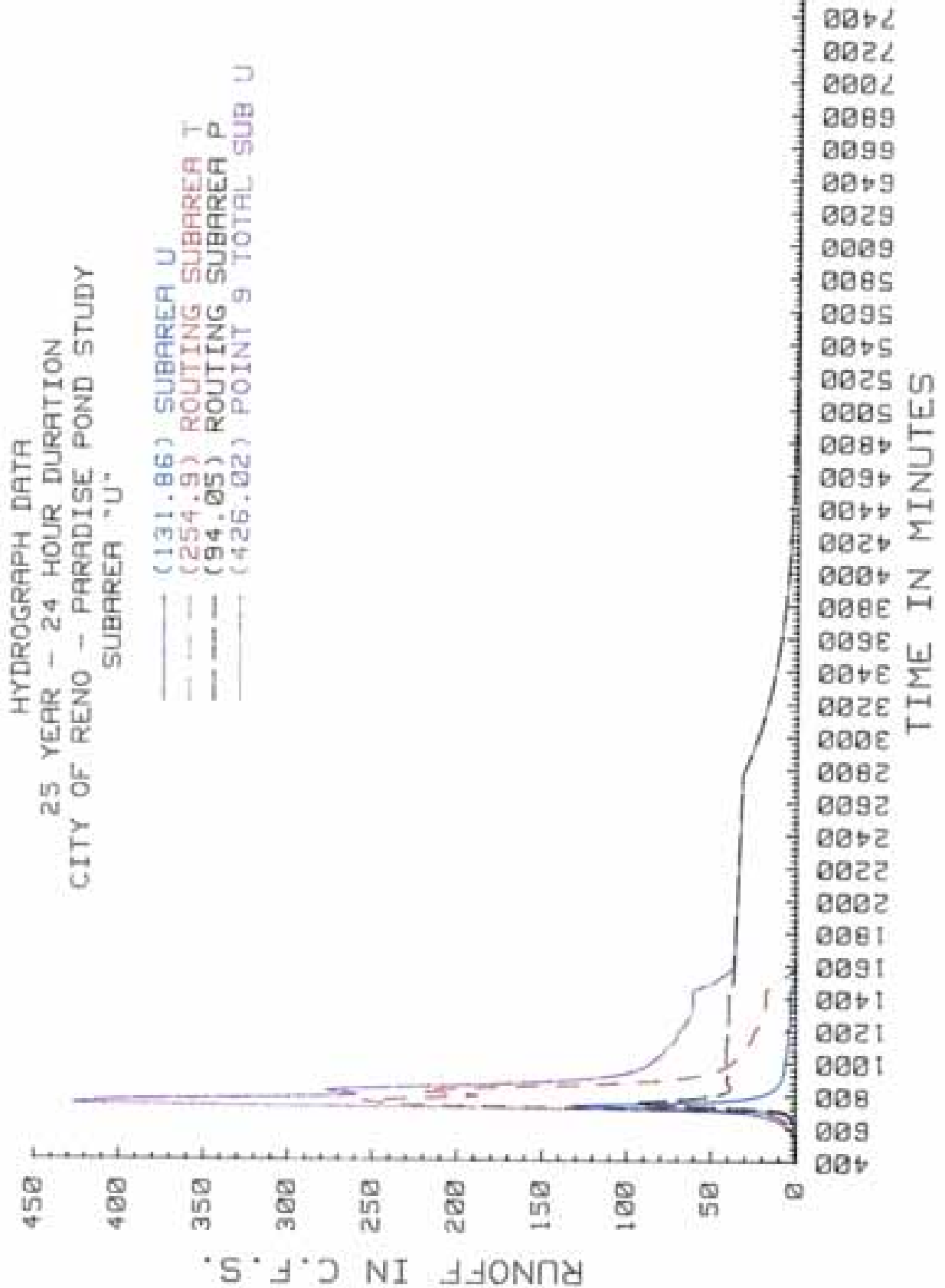


HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "R AND N"

(68.34) POINT 4 TOTAL PAN. POOL IN.
(91.64) POINT 5 TOTAL PAN. POOL OUT.
(381.5) SUBAREA N
(65.11) ROUTING SUBAREA R
(425.35) POINT 6 TOTAL SUB N

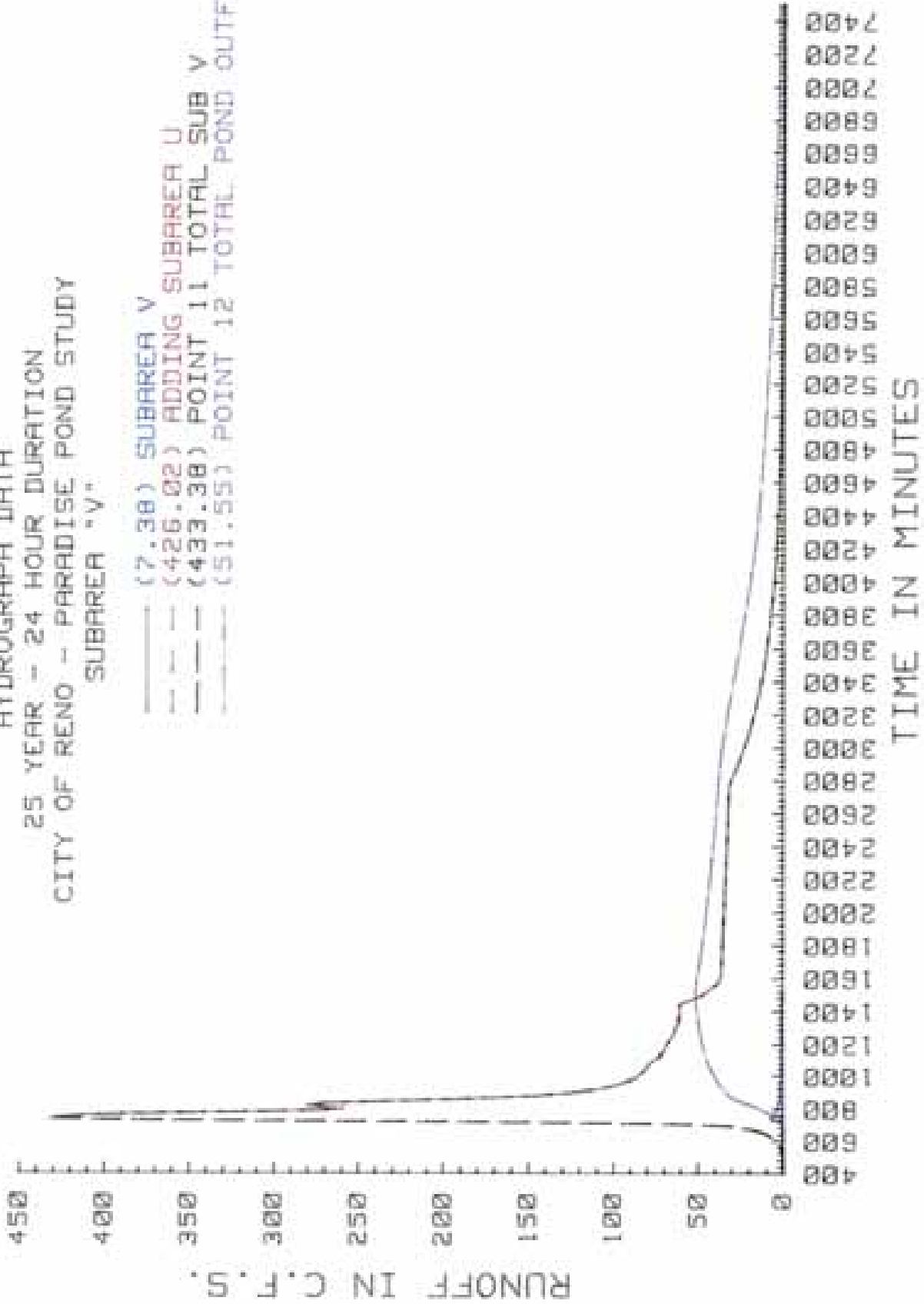






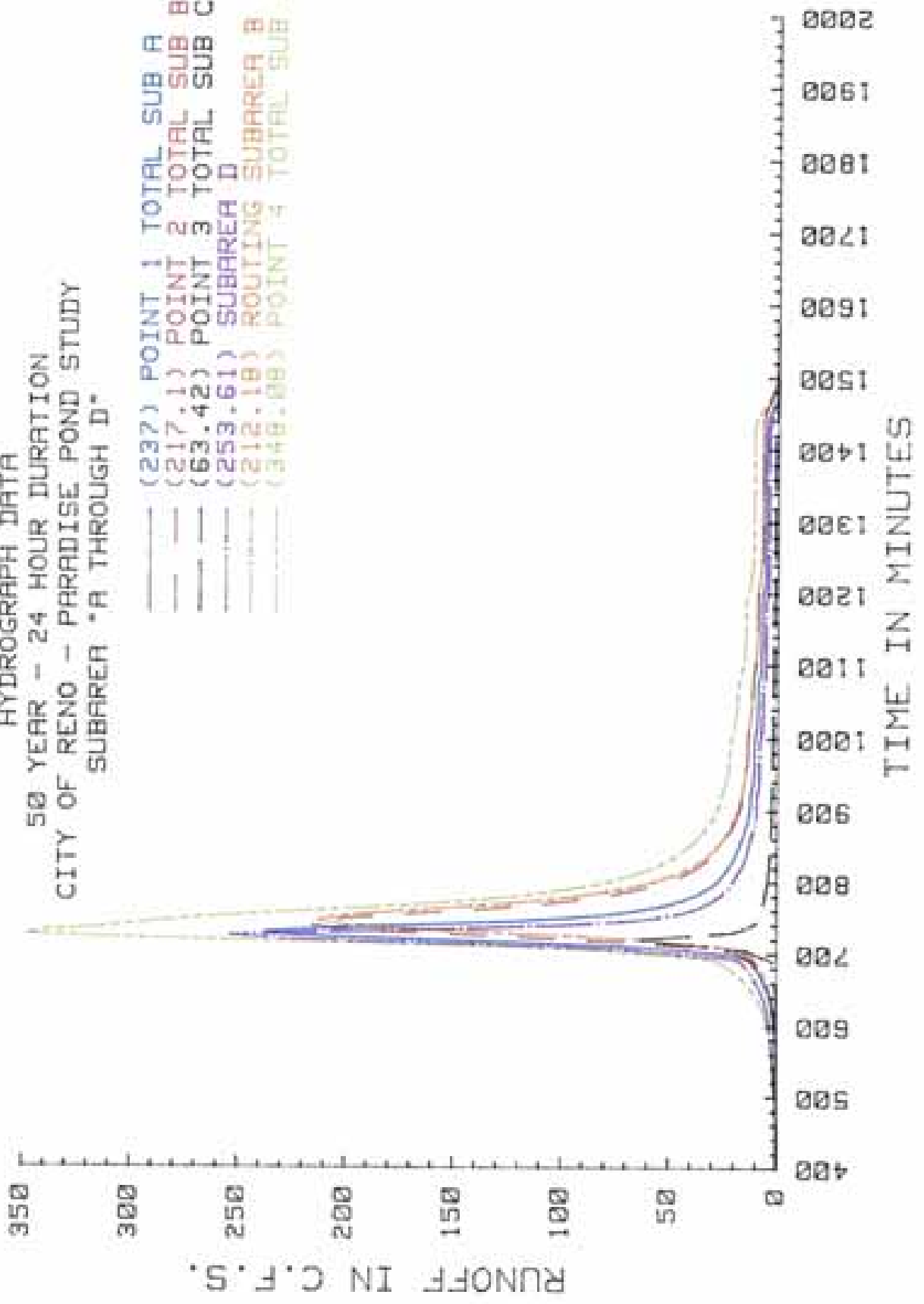
HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

_____ (7.38) SUBAREA V
 - - - - (426.02) ADDING SUBAREA U
 - - - - (433.38) POINT 11 TOTAL SUB V
 _____ (51.55) POINT 12 TOTAL POND OUTFLOW



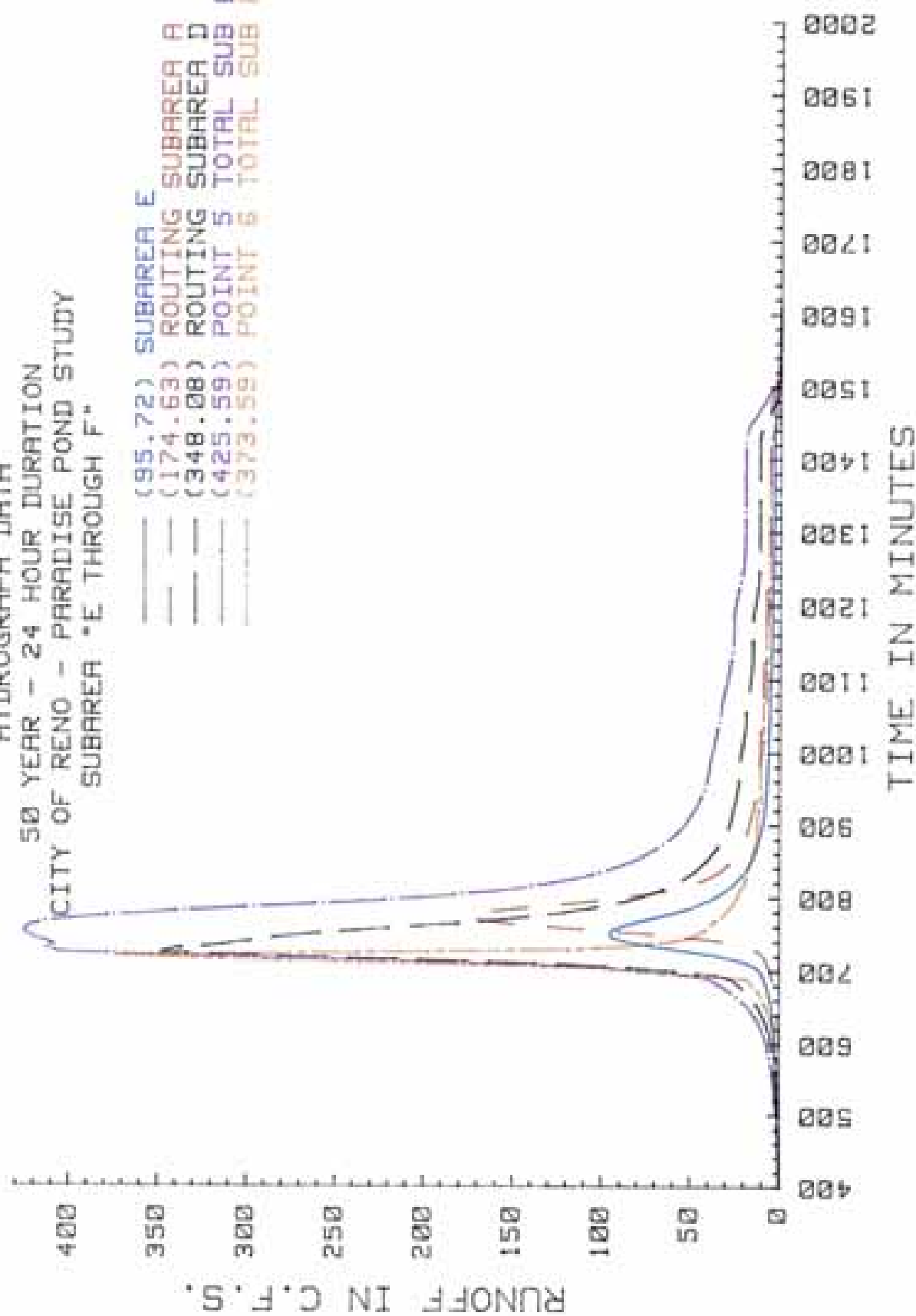
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "A THROUGH D"

---	(237)	POINT 1	TOTAL	SUB A
---	(217.1)	POINT 2	TOTAL	SUB B
---	(63.42)	POINT 3	TOTAL	SUB C
---	(253.61)	SUBAREA D		
---	(212.18)	ROUTING	SUBAREA B	
---	(348.88)	POINT 4	TOTAL	SUB D



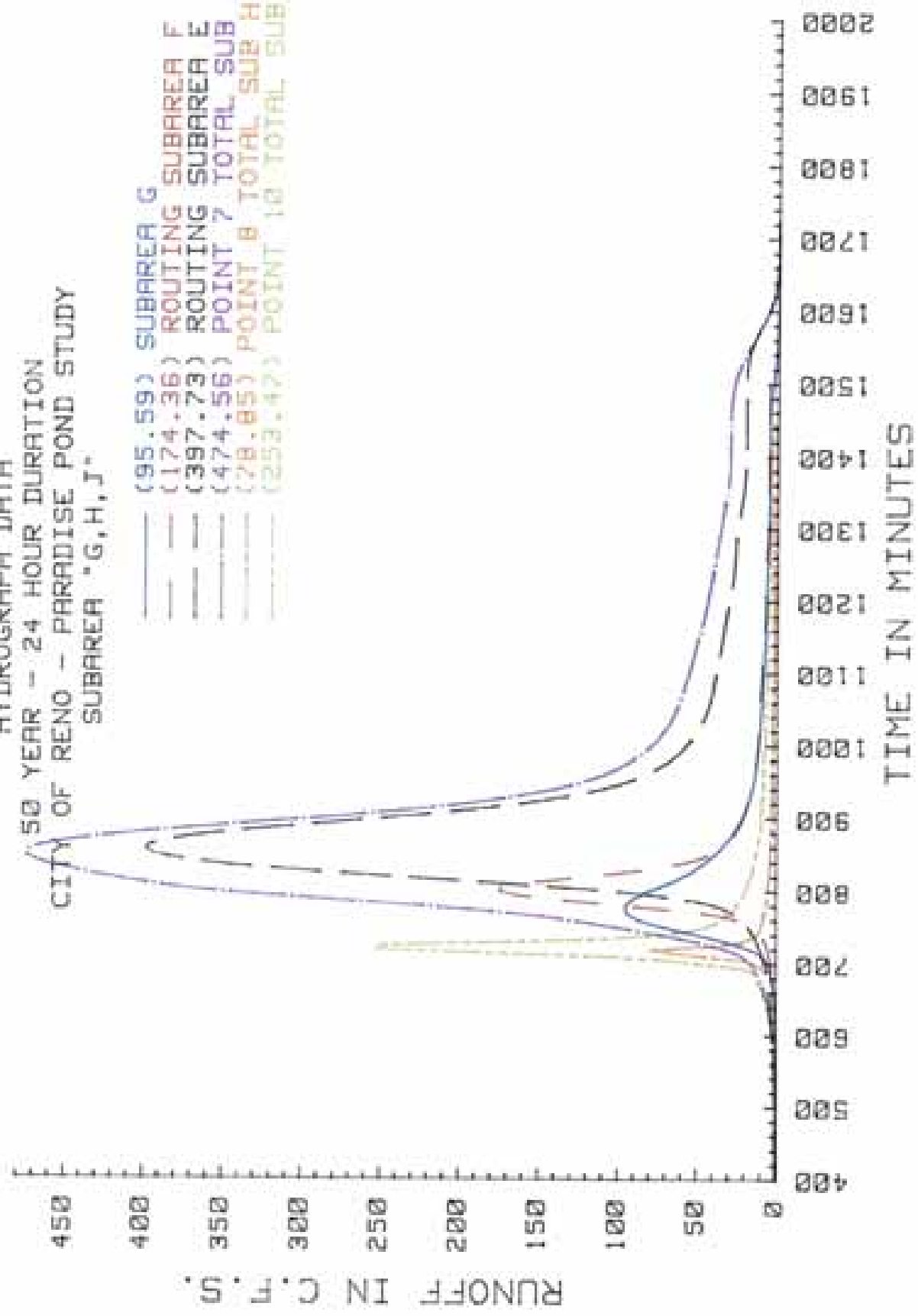
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "E THROUGH F"

---	(95.72)	SUBAREA E
---	(174.63)	ROUTING SUBAREA A
---	(348.08)	ROUTING SUBAREA D
---	(425.59)	POINT 5 TOTAL SUB E
---	(373.59)	POINT 6 TOTAL SUB F



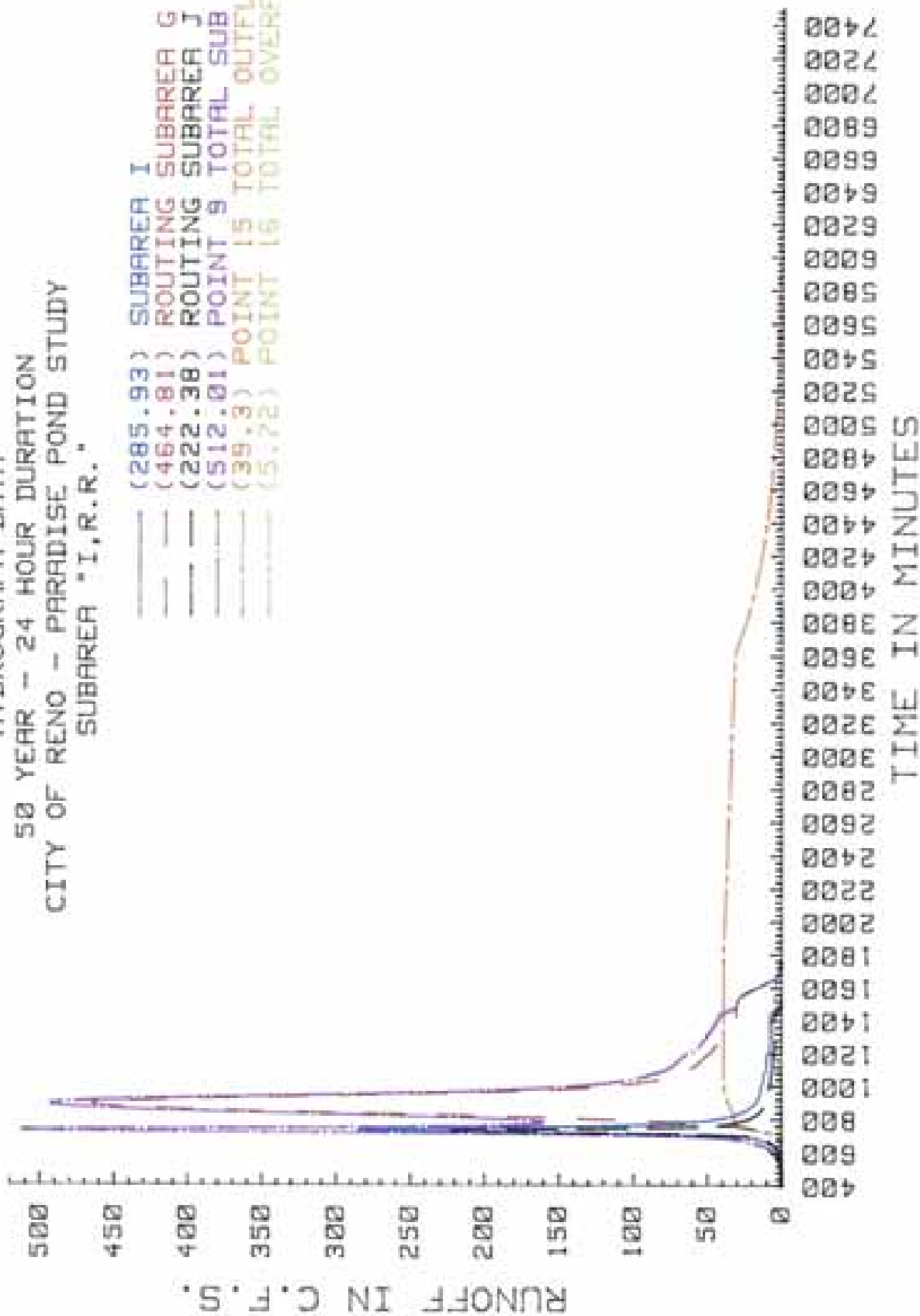
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "G,H,I"

---	(95.59)	SUBAREA G
---	(174.36)	ROUTING SUBAREA F
---	(397.73)	ROUTING SUBAREA E
---	(474.56)	POINT 7 TOTAL SUB G
---	(78.85)	POINT 8 TOTAL SUB H
---	(253.47)	POINT 10 TOTAL SUB I



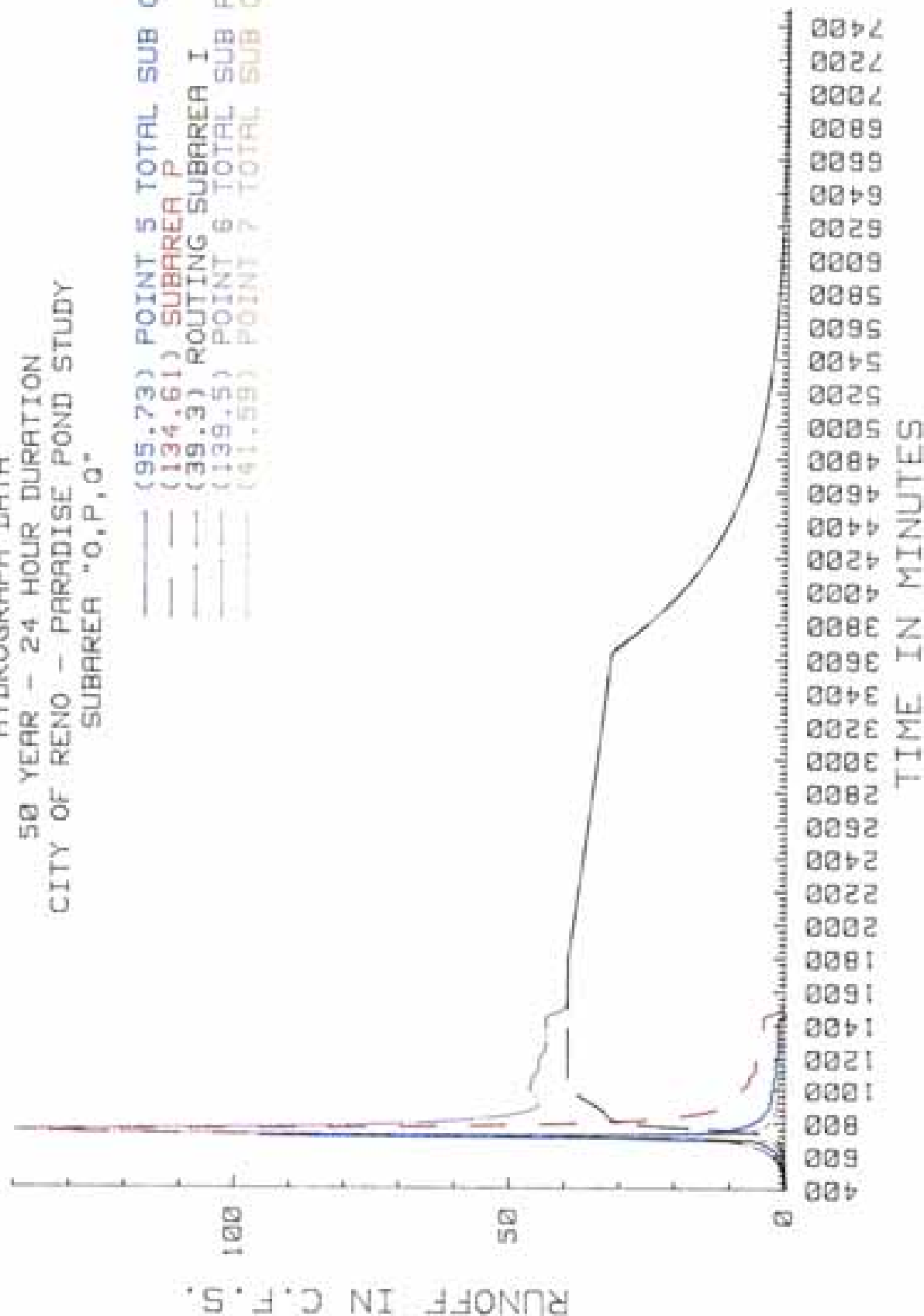
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "I, R.R."

(285.93) SUBAREA I
 (464.81) ROUTING SUBAREA G
 (222.38) ROUTING SUBAREA J
 (512.01) POINT 9 TOTAL SUB I
 (39.3) POINT 15 TOTAL OUTFLOW
 (5.72) POINT 16 TOTAL OVERFLOW



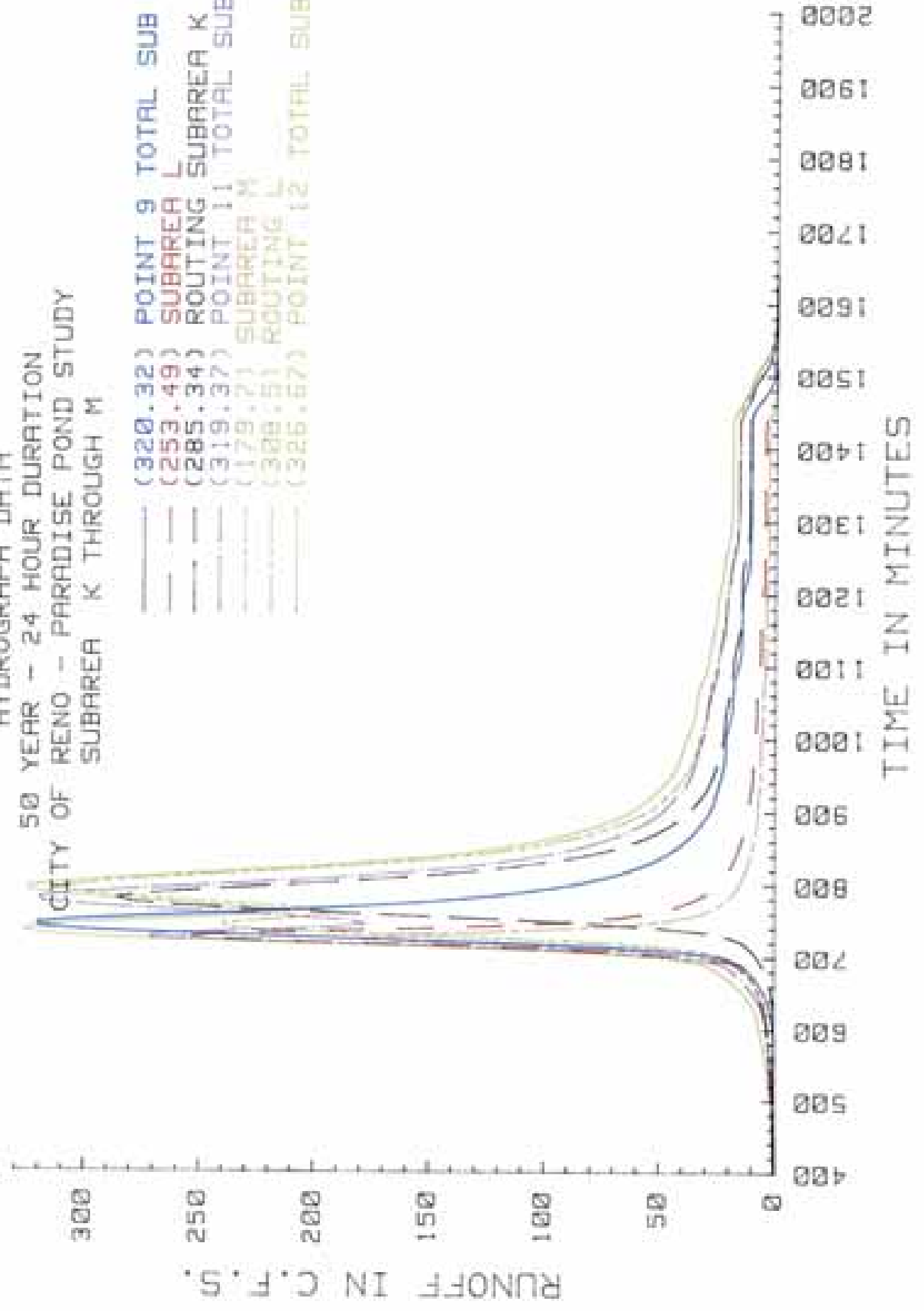
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "O.P.O."

--- (95.73) POINT 5 TOTAL SUB O
 --- (134.61) SUBAREA P
 --- (39.3) ROUTING SUBAREA I
 --- (139.5) POINT 6 TOTAL SUB P
 --- (41.59) POINT 7 TOTAL SUB O



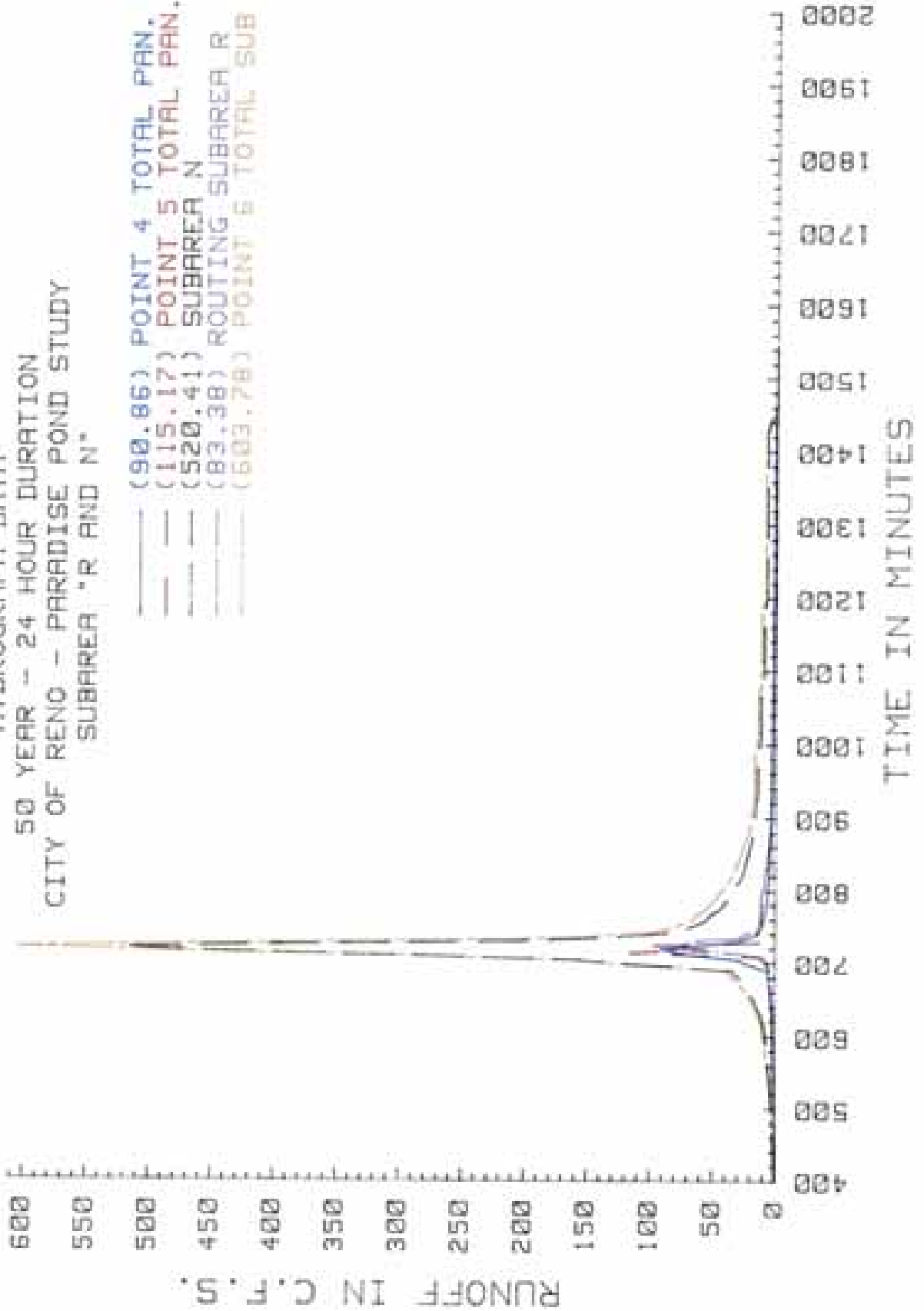
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA K THROUGH M

---	(320.32)	POINT 9	TOTAL	SUB K
---	(253.49)	SUBAREA	L	
---	(285.34)	ROUTING	SUBAREA K	
---	(319.37)	POINT 11	TOTAL	SUB L
---	(179.71)	SUBAREA	M	
---	(328.51)	ROUTING	L	
---	(326.57)	POINT 12	TOTAL	SUB M



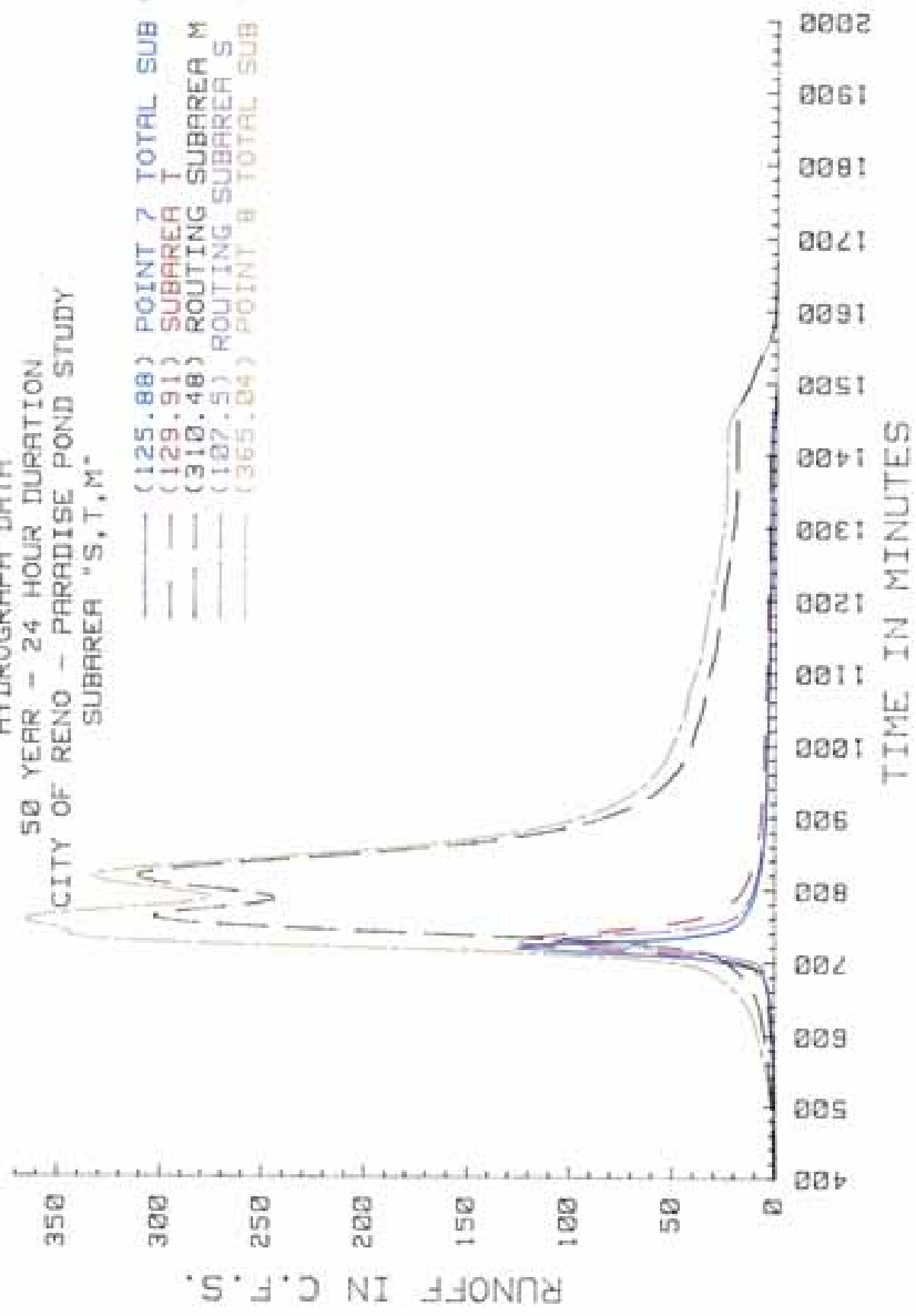
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "R AND N"

--- (98.86) POINT 4 TOTAL PAN. POOL
--- (115.17) POINT 5 TOTAL PAN. POOL
--- (520.41) SUBAREA N
--- (83.38) ROUTING SUBAREA R
--- (683.78) POINT 6 TOTAL SUB N



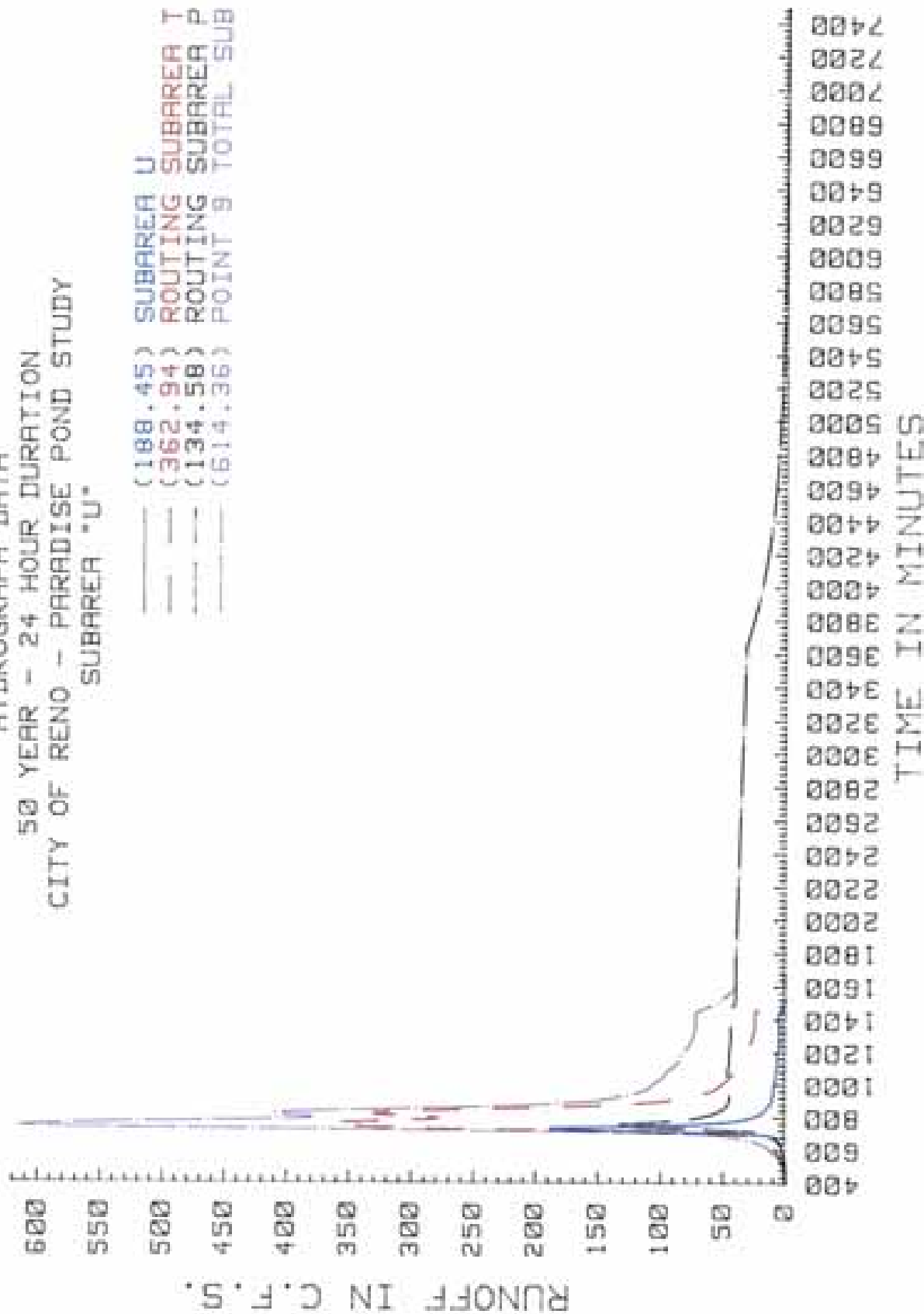
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S,T,M"

(125.88) POINT 7 TOTAL SUB S
(129.91) SUBAREA T
(310.48) ROUTING SUBAREA M
(187.5) ROUTING SUBAREA S
(365.04) POINT 8 TOTAL SUB T



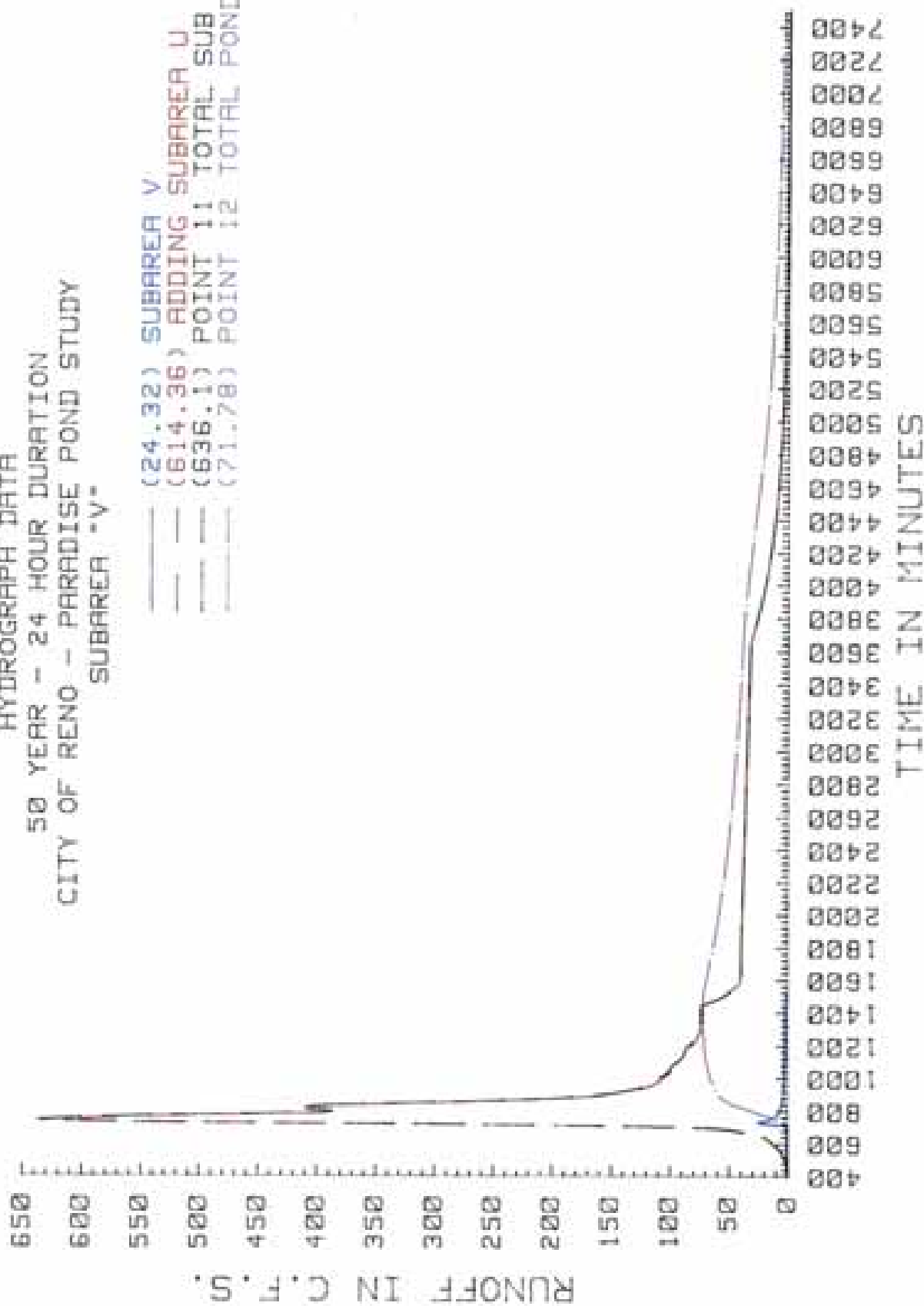
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "U"

--- (188.45) SUBAREA U
 --- (362.94) ROUTING SUBAREA T
 --- (134.58) ROUTING SUBAREA P
 --- (614.36) POINT 9 TOTAL SUB U



HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

- (24.32) SUBAREA V
- (614.36) ADDING SUBAREA U
- (636.1) POINT 11 TOTAL SUB V
- (71.78) POINT 12 TOTAL POND OUTF

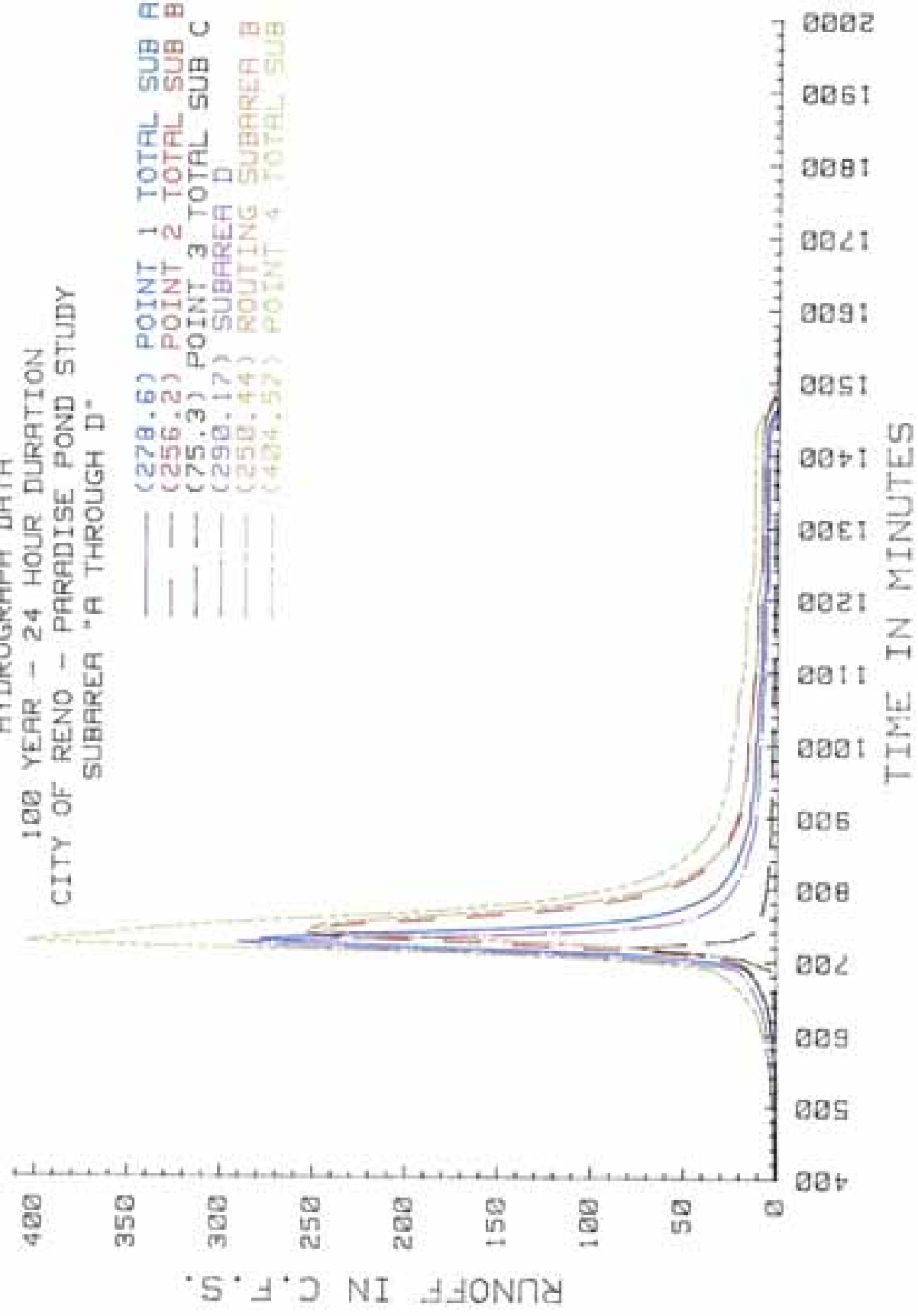


TIME IN MINUTES

RUNOFF IN C. F. S.

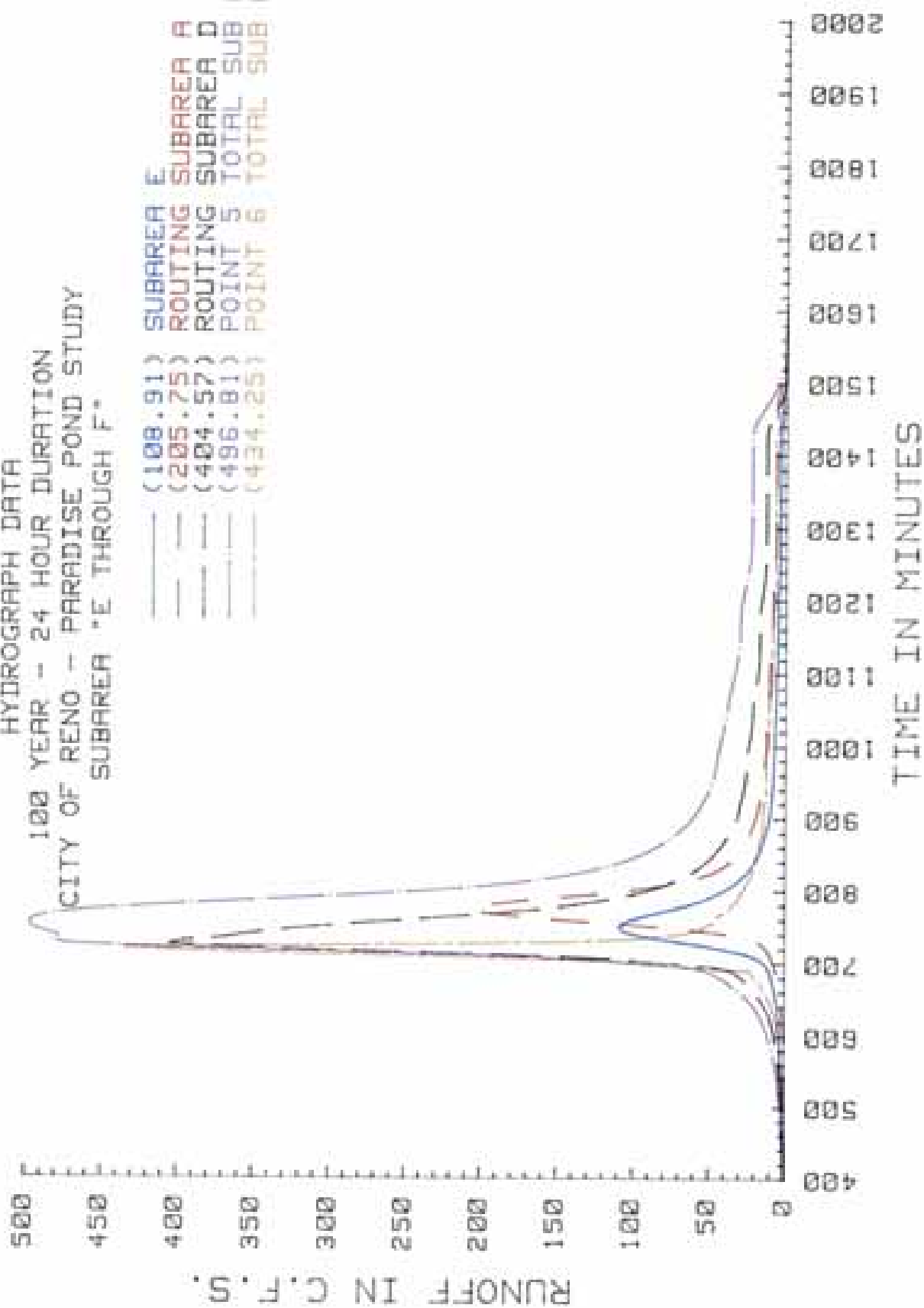
HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "A THROUGH D"

(270.6) POINT 1 TOTAL SUB A
 (256.2) POINT 2 TOTAL SUB B
 (75.3) POINT 3 TOTAL SUB C
 (290.17) SUBAREA D
 (250.44) ROUTING SUBAREA B
 (404.57) POINT 4 TOTAL SUB D



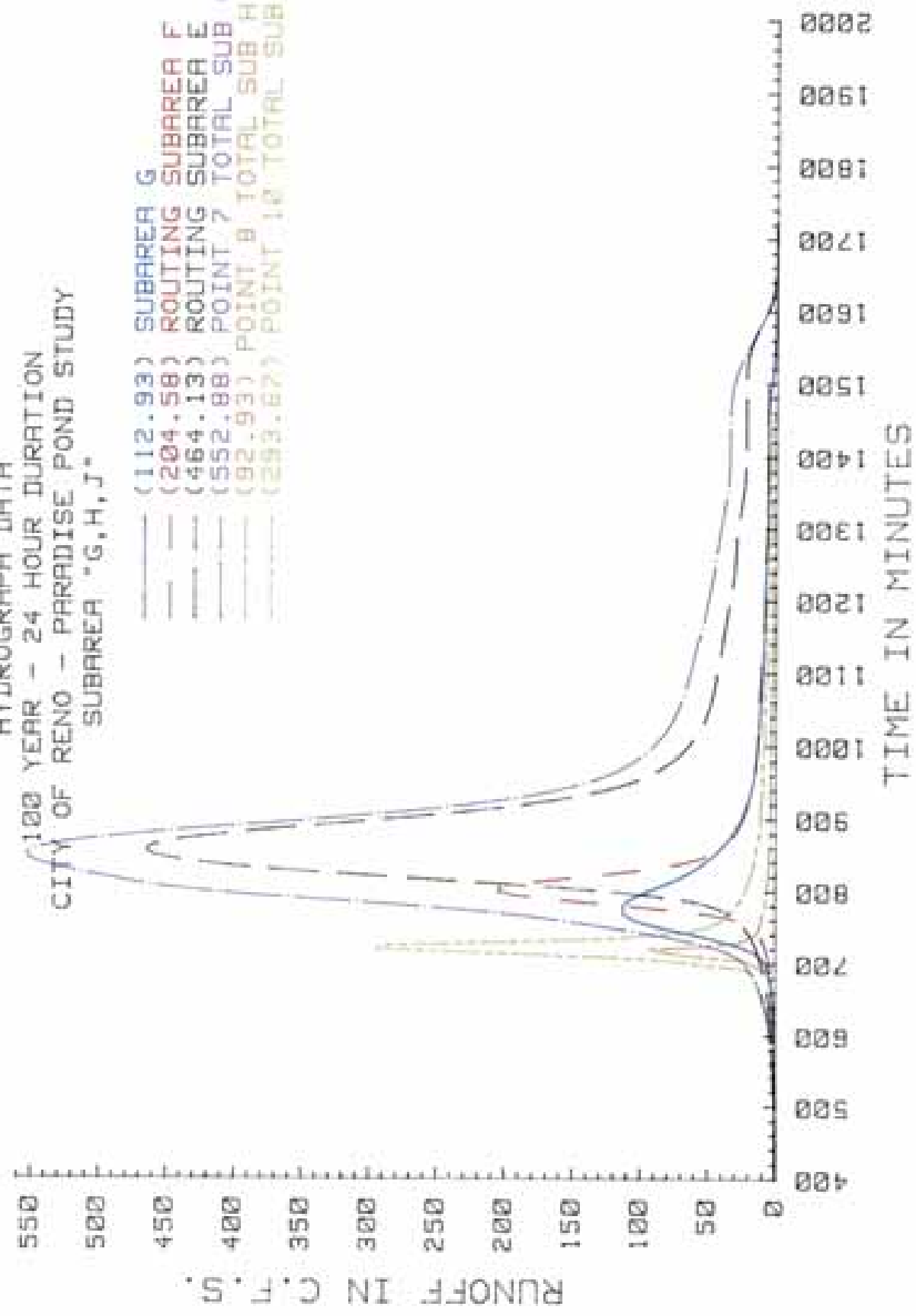
HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA "E THROUGH F"

---	(109.91)	SUBAREA E
---	(205.75)	ROUTING SUBAREA A
---	(404.57)	ROUTING SUBAREA D
---	(496.81)	POINT 5 TOTAL SUB E
---	(434.25)	POINT 6 TOTAL SUB F



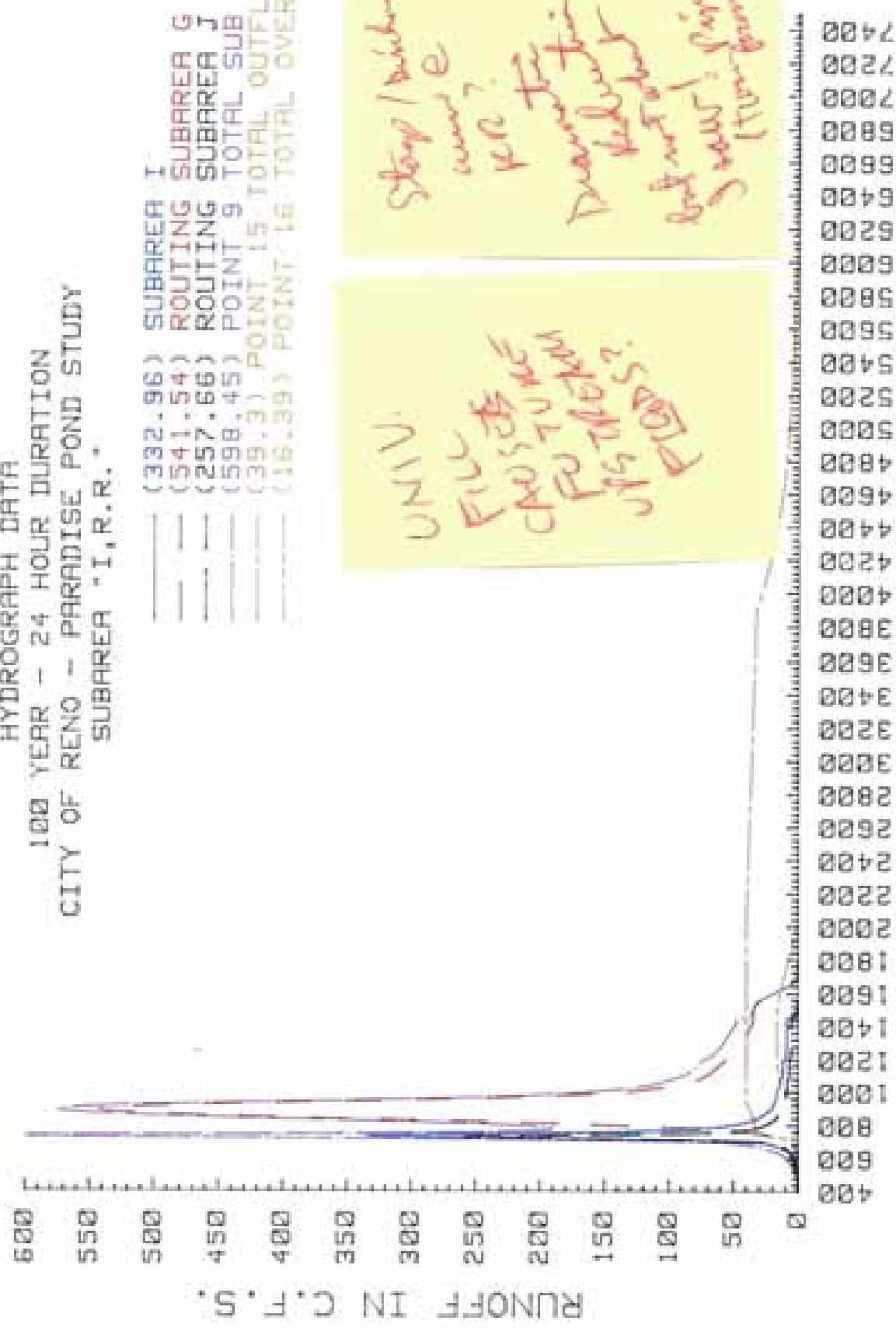
HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "G,H,J"

---	(112.93)	SUBAREA G
---	(204.58)	ROUTING SUBAREA F
---	(464.13)	ROUTING SUBAREA E
---	(552.88)	POINT 7 TOTAL SUB G
---	(92.93)	POINT 8 TOTAL SUB H
---	(293.67)	POINT 10 TOTAL SUB J



HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "I, R.R."

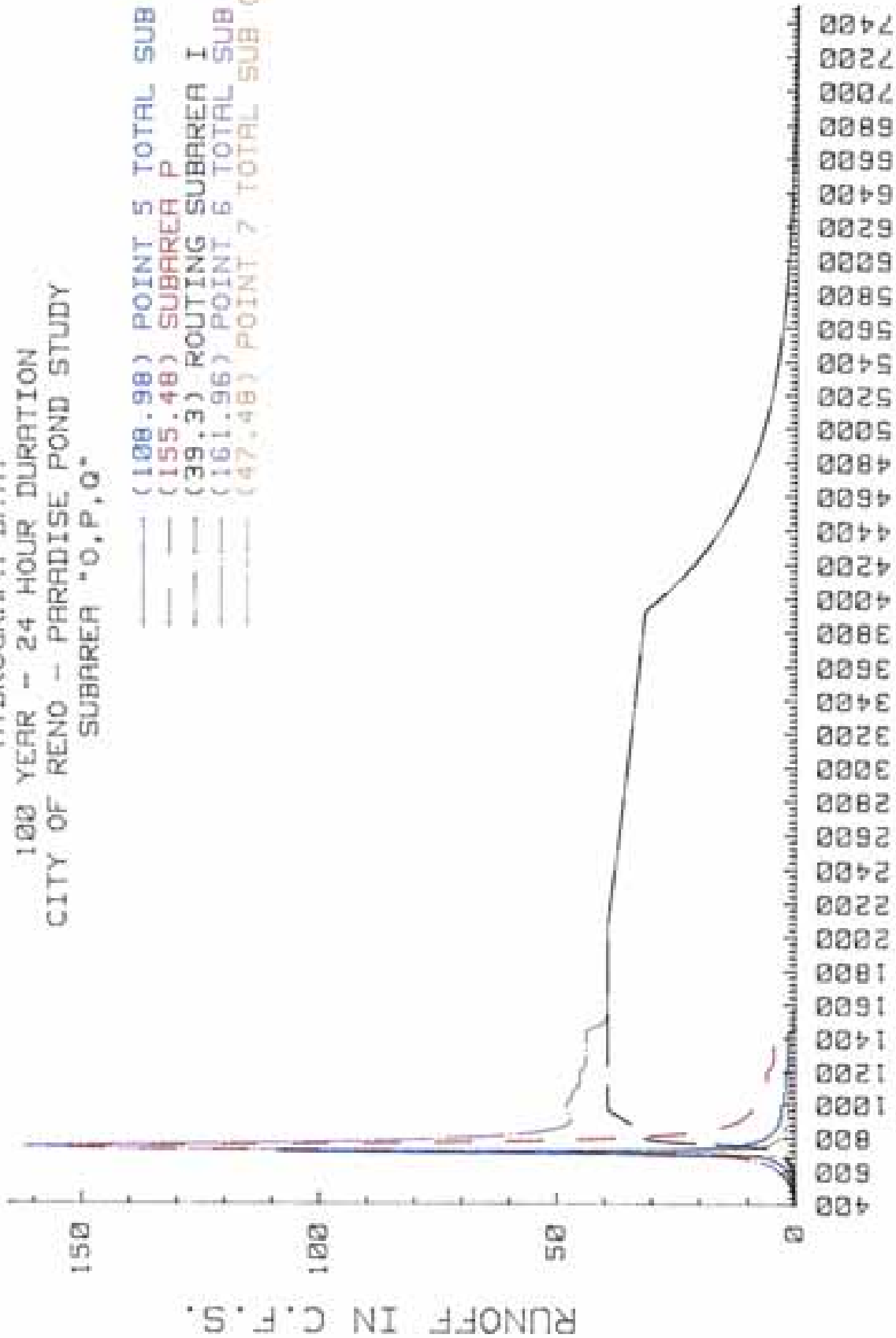
---	(332.96)	SUBAREA I
---	(541.54)	ROUTING SUBAREA G
---	(257.66)	ROUTING SUBAREA J
---	(598.45)	POINT 9 TOTAL SUB I
---	(39.3)	POINT 15 TOTAL OUTFLOW
---	(16.39)	POINT 16 TOTAL OVERFLOW



TIME IN MINUTES

HYDROGRAPH DATA
 100 YEAR -- 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA "O.P.O."

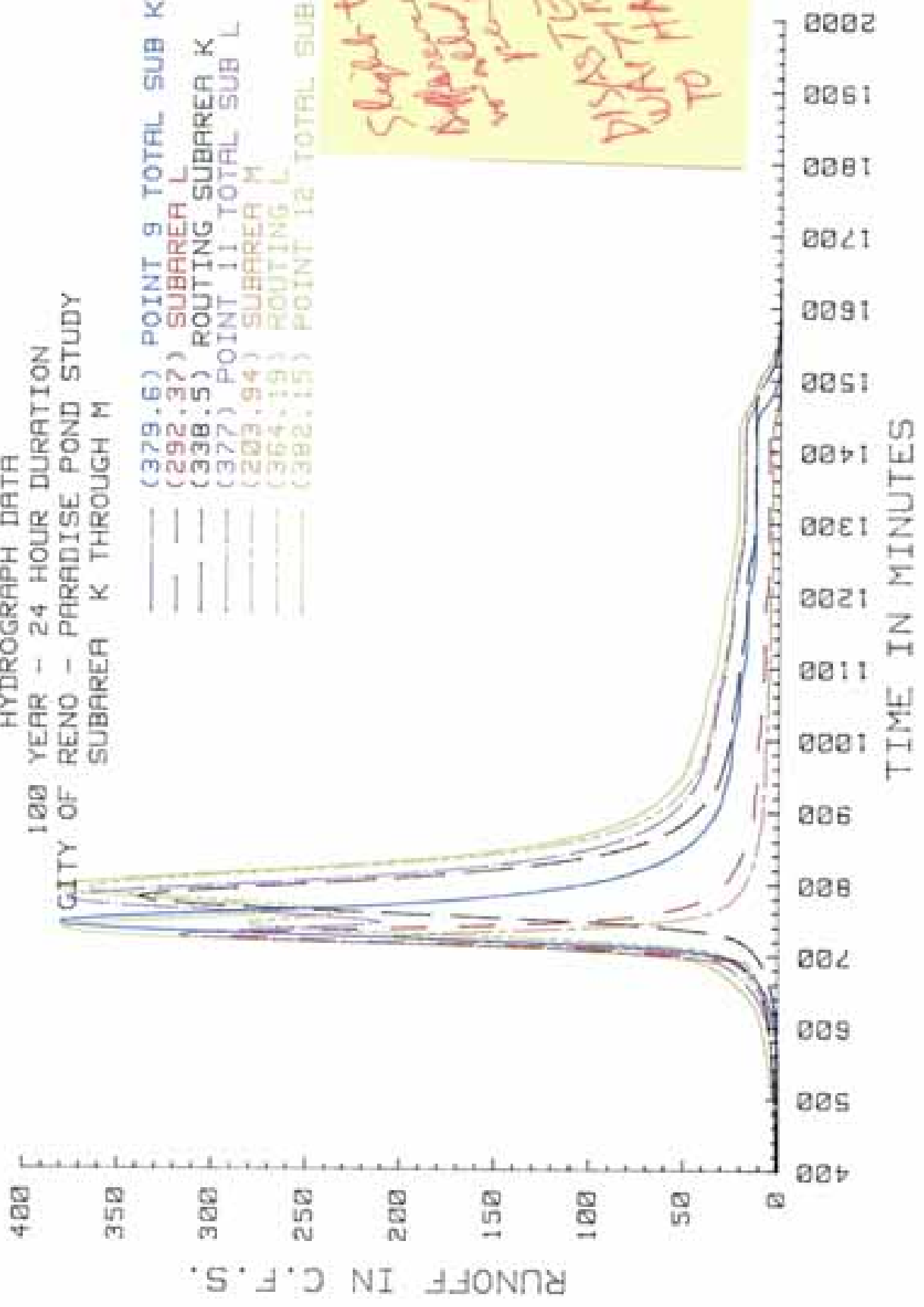
- (100.90) POINT 5 TOTAL SUB O
- (155.48) SUBAREA P
- (39.3) ROUTING SUBAREA I
- (161.96) POINT 6 TOTAL SUB P
- (47.48) POINT 7 TOTAL SUB Q



TIME IN MINUTES

HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA K THROUGH M

- (379.6) POINT 9 TOTAL SUB K
- (292.37) SUBAREA L
- (338.5) ROUTING SUBAREA K
- (377) POINT 11 TOTAL SUB L
- (203.94) SUBAREA M
- (364.19) ROUTING L
- (382.15) POINT 12 TOTAL SUB M

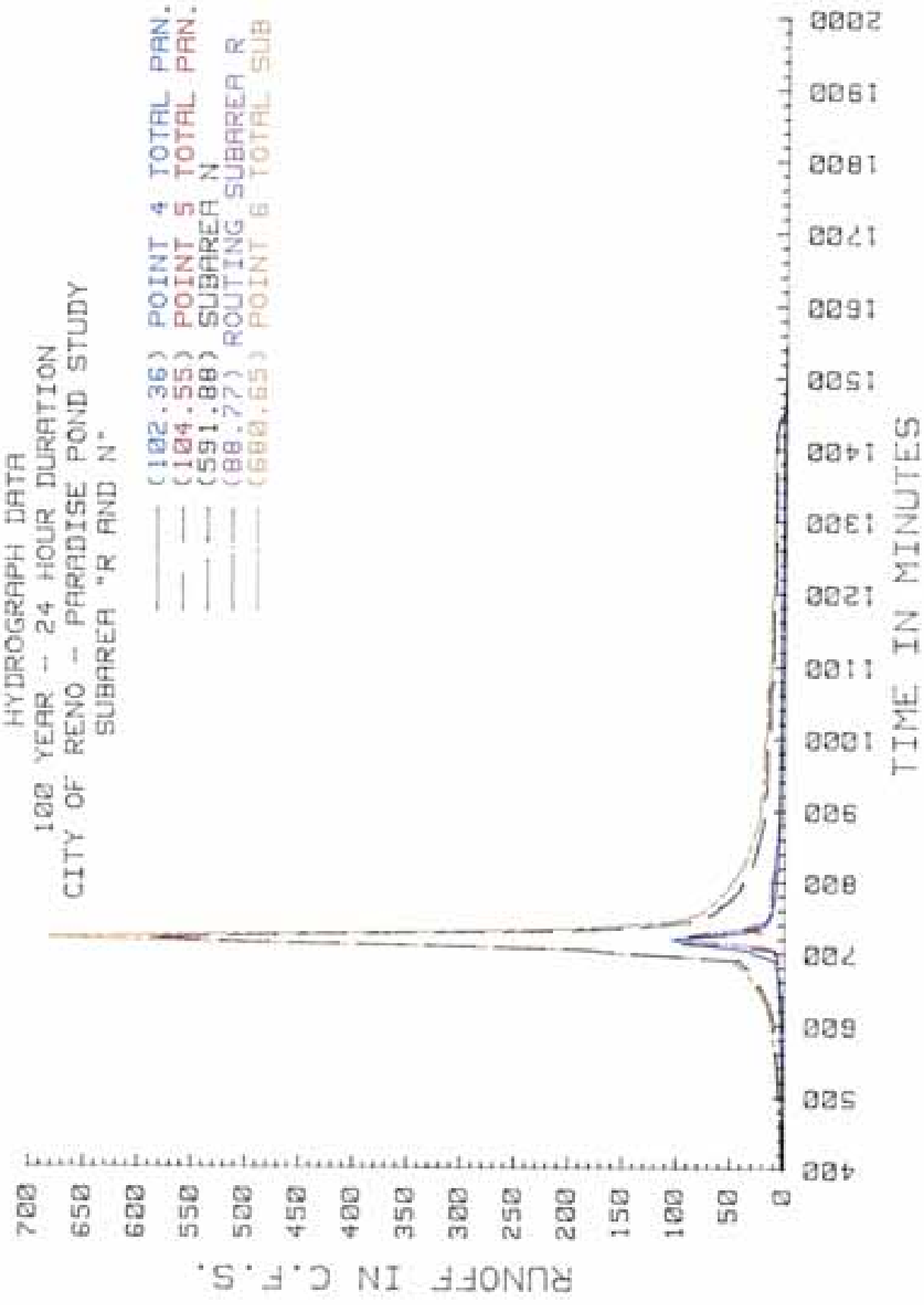


RUNOFF IN C. F. S.

TIME IN MINUTES

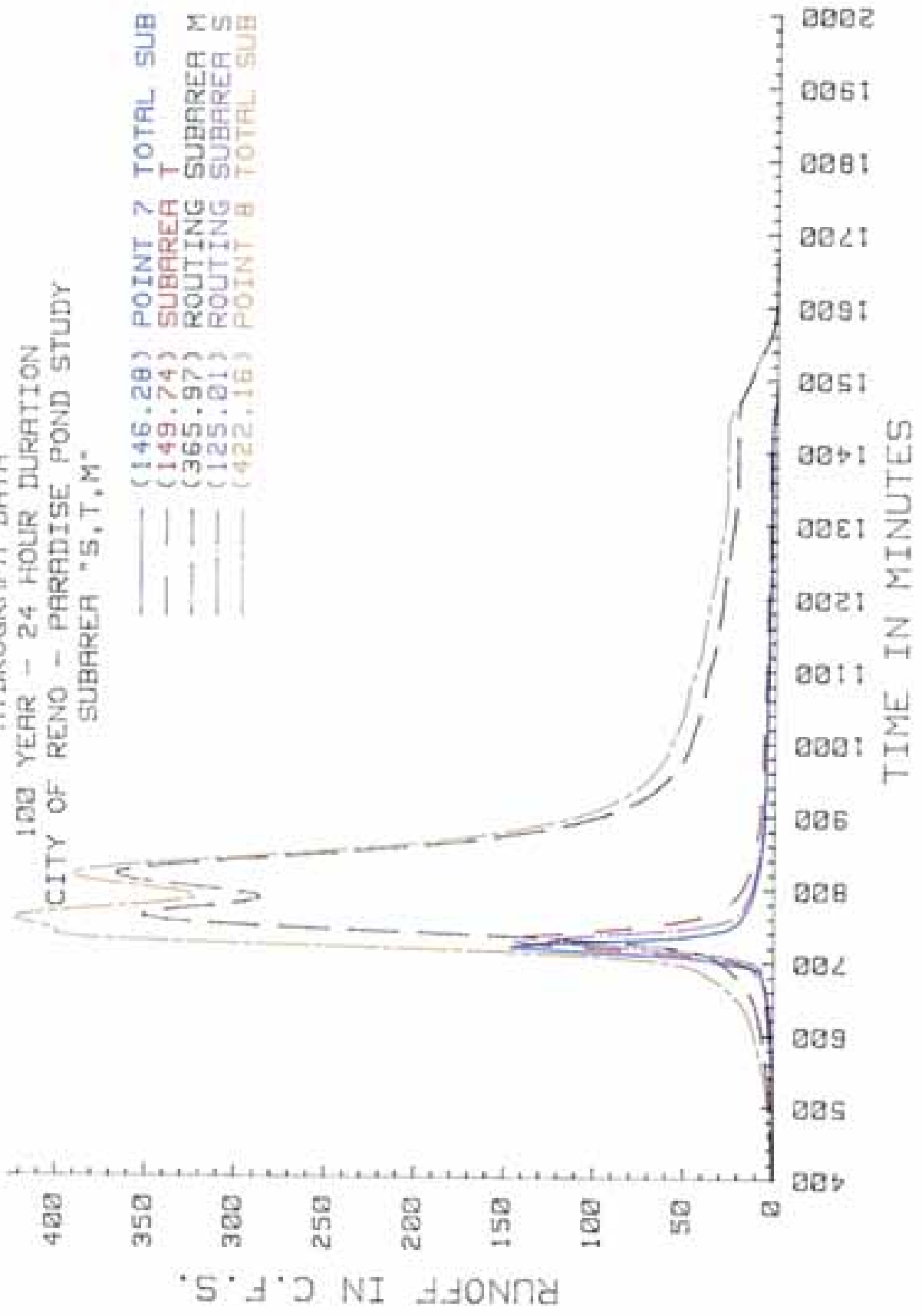
HYDROGRAPH DATA
 100 YEAR -- 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA "R AND N"

---	(102.36)	POINT 4	TOTAL PAN.	POOL
---	(104.55)	POINT 5	TOTAL PAN.	POOL
---	(591.88)	SUBAREA N		
---	(88.77)	ROUTING SUBAREA R		
---	(680.65)	POINT 6	TOTAL SUB N	



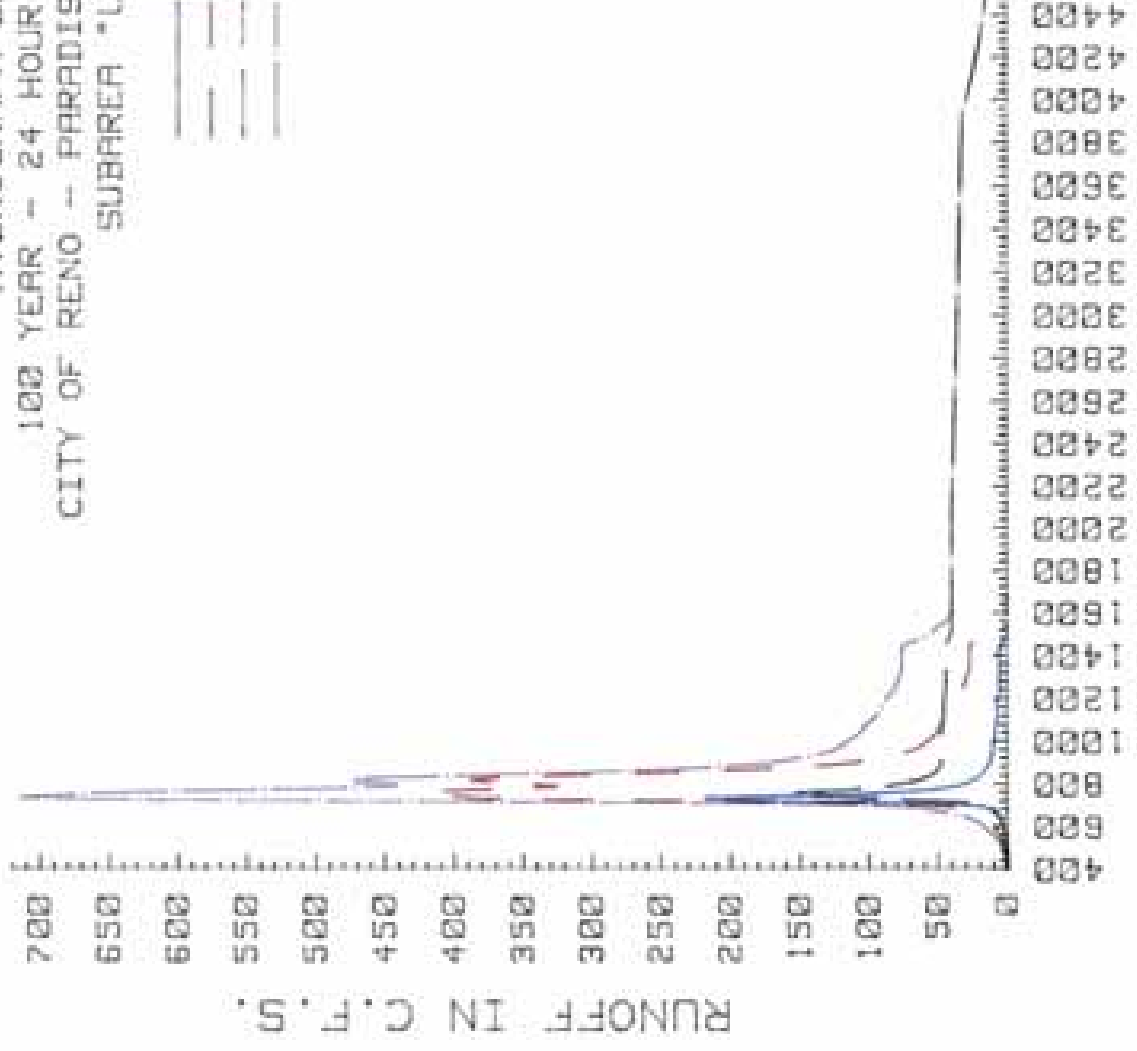
HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S,T,M"

(146.28)	POINT 7	TOTAL	SUB S
(149.74)	SUBAREA	T	
(365.97)	ROUTING	SUBAREA M	
(125.01)	ROUTING	SUBAREA S	
(422.16)	POINT 8	TOTAL	SUB T



HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA "U"

--- (218.54) SUBAREA U
 --- (419.8) ROUTING SUBAREA T
 --- (156.05) ROUTING SUBAREA P
 --- (713.96) POINT 9 TOTAL SUB U



TIME IN MINUTES

RUNOFF IN C. F. S.

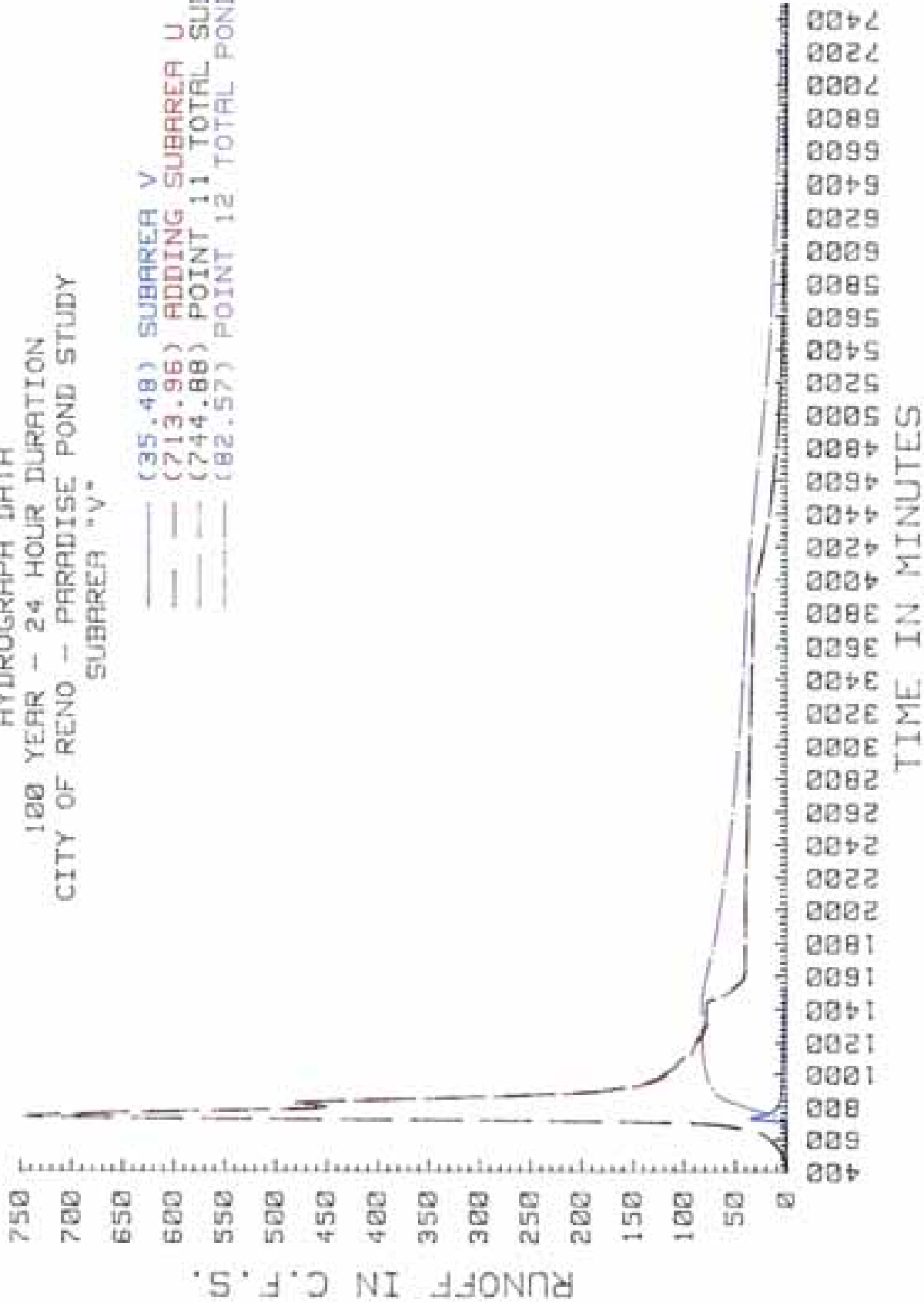
HYDROGRAPH DATA

100 YEAR - 24 HOUR DURATION

CITY OF RENO - PARADISE POND STUDY

SUBAREA "V"

- (35.48) SUBAREA V
- - (713.96) ADDING SUBAREA U
- - - (744.88) POINT 11 TOTAL SUB V
- - - - (82.57) POINT 12 TOTAL POND OUTF.



אשר לא ידעו את היום ולא את השעה

APPENDIX B

TABLE B-1

CONDITION NO. 2 WITH 3-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
A	2.75 cfs @ 110 min.	11.20 cfs @ 80 min.	19.68 cfs @ 60 min.	33.80 cfs @ 60 min.
B	3.30 cfs @ 130 min.	13.47 cfs @ 105 min.	22.97 cfs @ 90 min.	38.01 cfs @ 75 min.
C	0.23 cfs @ 155 min.	1.48 cfs @ 75 min.	2.76 cfs @ 55 min.	5.15 cfs @ 50 min.
D	7.82 cfs @ 105 min.	26.45 cfs @ 80 min.	43.31 cfs @ 80 min.	68.04 cfs @ 75 min.
E	14.37 cfs @ 130 min.	47.14 cfs @ 105 min.	75.56 cfs @ 100 min.	116.72 cfs @ 95 min.
F	3.80 cfs @ 95 min.	14.40 cfs @ 50 min.	24.88 cfs @ 45 min.	44.08 cfs @ 35 min.
G	18.44 cfs @ 215 min.	60.21 cfs @ 200 min.	95.82 cfs @ 195 min.	147.56 cfs @ 190 min.
H	0.38 cfs @ 125 min.	2.03 cfs @ 75 min.	3.76 cfs @ 50 min.	6.72 cfs @ 50 min.
I	18.26 cfs @ 260 min.	59.53 cfs @ 245 min.	23.88 cfs @ 235 min.	145.96 cfs @ 230 min.
J	4.32 cfs @ 75 min.	14.74 cfs @ 50 min.	24.47 cfs @ 40 min.	40.34 cfs @ 40 min.
R.R.	4.50 cfs @ 260 min.	14.88 cfs @ 245 min.	23.60 cfs @ 235 min.	31.99 cfs @ 230 min.
K	4.02 cfs @ 150 min.	18.67 cfs @ 110 min.	32.43 cfs @ 95 min.	54.50 cfs @ 85 min.
L	7.17 cfs @ 160 min.	27.61 cfs @ 135 min.	46.47 cfs @ 120 min.	75.60 cfs @ 110 min.
M	11.36 cfs @ 80 min.	33.88 cfs @ 135 min.	55.63 cfs @ 130 min.	88.03 cfs @ 125 min.
N	16.55 cfs @ 55 min.	45.86 cfs @ 35 min.	71.60 cfs @ 35 min.	106.18 cfs @ 35 min.

TABLE B-1 - (con't)

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
O	2.00 cfs @ 50 min.	6.40 cfs @ 30 min.	10.77 cfs @ 30 min.	16.86 cfs @ 30 min.
P	4.65 cfs @ 115 min.	14.85 cfs @ 395 min.	23.56 cfs @ 390 min.	32.08 cfs @ 70 min.
Q	0.91 cfs @ 55 min.	2.85 cfs @ 35 min.	4.64 cfs @ 35 min.	7.19 cfs @ 30 min.
R	2.88 cfs @ 35 min.	6.41 cfs @ 30 min.	8.37 cfs @ 30 min.	10.95 cfs @ 30 min.
S	1.67 cfs @ 95 min.	6.12 cfs @ 55 min.	10.32 cfs @ 45 min.	17.40 cfs @ 35 min.
T	15.88 cfs @ 105 min.	45.28 cfs @ 90 min.	69.93 cfs @ 85 min.	104.60 cfs @ 85 min.
U	24.61 cfs @ 110 min.	71.13 cfs @ 95 min.	110.03 cfs @ 90 min.	165.73 cfs @ 85 min.
V	24.61 cfs @ 110 min.	71.13 cfs @ 95 min.	110.03 cfs @ 90 min.	165.73 cfs @ 85 min.
Pond Outflow	0.81 cfs w/8 ac.ft.	3.80 cfs w/25 ac.ft.	7.06 cfs w/37 ac.ft.	11.54 cfs w/55 ac.ft.
Pond Overflow	0 cfs	0 cfs	0 cfs	0 cfs
W	0 cfs	1.45 cfs @ 160 min.	3.31 cfs @ 135 min.	6.57 cfs @ 120 min.
X	0.81 cfs @ 1640 min.	3.80 cfs @ 1390 min.	7.06 cfs @ 1280 min.	11.54 cfs @ 1245 min.
North Truckee Ditch	0.81 cfs @ 1640 min.	3.80 cfs @ 1400 min.	7.06 cfs @ 1290 min.	11.54 cfs @ 1255 min.

TABLE B-2

CONDITION NO. 2 WITH 6-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
A	4.44 cfs @ 215 min.	19.78 cfs @ 165 min.	32.51 cfs @ 165 min.	64.51 cfs @ 160 min.
B	5.58 cfs @ 235 min.	20.28 cfs @ 180 min.	33.25 cfs @ 180 min.	64.91 cfs @ 175 min.
C	0.53 cfs @ 360 min.	2.70 cfs @ 155 min.	5.56 cfs @ 150 min.	12.52 cfs @ 150 min.
D	14.25 cfs @ 160 min.	40.17 cfs @ 160 min.	60.64 cfs @ 160 min.	109.27 cfs @ 160 min.
E	22.64 cfs @ 215 min.	62.85 cfs @ 200 min.	93.42 cfs @ 200 min.	164.25 cfs @ 195 min.
F	7.48 cfs @ 155 min.	32.16 cfs @ 150 min.	50.44 cfs @ 150 min.	90.93 cfs @ 150 min.
G	30.85 cfs @ 320 min.	81.25 cfs @ 300 min.	118.63 cfs @ 295 min.	203.76 cfs @ 290 min.
H	0.72 cfs @ 245 min.	4.25 cfs @ 150 min.	7.88 cfs @ 150 min.	16.24 cfs @ 150 min.
I	40.22 cfs @ 360 min.	99.19 cfs @ 345 min.	141.93 cfs @ 340 min.	237.75 cfs @ 335 min.
J	9.55 cfs @ 155 min.	29.24 cfs @ 155 min.	42.94 cfs @ 150 min.	75.31 cfs @ 150 min.
R.R.	10.41 cfs @ 360 min.	25.11 cfs @ 345 min.	31.94 cfs @ 340 min.	34.20 cfs @ 335 min.
K	7.61 cfs @ 265 min.	26.83 cfs @ 185 min.	45.40 cfs @ 180 min.	91.94 cfs @ 180 min.
L	12.91 cfs @ 270 min.	38.44 cfs @ 225 min.	60.12 cfs @ 220 min.	112.34 cfs @ 215 min.
M	20.12 cfs @ 170 min.	50.82 cfs @ 170 min.	72.54 cfs @ 165 min.	126.19 cfs @ 230 min.
N	36.35 cfs @ 150 min.	82.24 cfs @ 150 min.	111.54 cfs @ 150 min.	174.64 cfs @ 150 min.

TABLE B-2 - (con't)

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
O	5.15 cfs @ 150 min.	12.08 cfs @ 150 min.	16.96 cfs @ 145 min.	27.45 cfs @ 145 min.
P	10.39 cfs @ 570 min.	25.08 cfs @ 560 min.	31.94 cfs @ 560 min.	50.56 cfs @ 175 min.
Q	2.23 cfs @ 150 min.	5.48 cfs @ 150 min.	7.63 cfs @ 150 min.	12.16 cfs @ 150 min.
R	5.13 cfs @ 150 min.	8.44 cfs @ 150 min.	10.90 cfs @ 150 min.	31.06 cfs @ 145 min.
S	3.58 cfs @ 155 min.	12.34 cfs @ 150 min.	19.23 cfs @ 150 min.	34.51 cfs @ 150 min.
T	25.76 cfs @ 195 min.	63.72 cfs @ 190 min.	90.43 cfs @ 190 min.	149.37 cfs @ 185 min.
U	39.04 cfs @ 200 min.	98.93 cfs @ 190 min.	141.74 cfs @ 185 min.	237.80 cfs @ 185 min.
V	39.04 cfs @ 200 min.	98.93 cfs @ 190 min.	141.74 cfs @ 185 min.	238.00 cfs @ 185 min.
Pond Outflow				
	2.28 cfs w/19 ac.ft.	8.11 cfs w/41 ac.ft.	12.00 cfs w/56.5 ac.ft.	17.54 cfs w/89 ac.ft.
Pond Overflow				
	0 cfs	0 cfs	0 cfs	0 cfs
W	0.62 cfs @ 370 min.	2.48 cfs @ 285 min.	4.22 cfs @ 245 min.	10.25 cfs @ 195 min.
X	2.28 cfs @ 1680 min.	8.11 cfs @ 1400 min.	12.00 cfs @ 1385 min.	18.66 cfs @ 365 min.
North Truckee Ditch				
	2.28 cfs @ 1690 min.	8.11 cfs @ 1410 min.	12.00 cfs @ 1395 min.	18.56 cfs @ 375 min.

TABLE B-3

CONDITION NO. 2 WITH 24-HOUR DURATION STORM

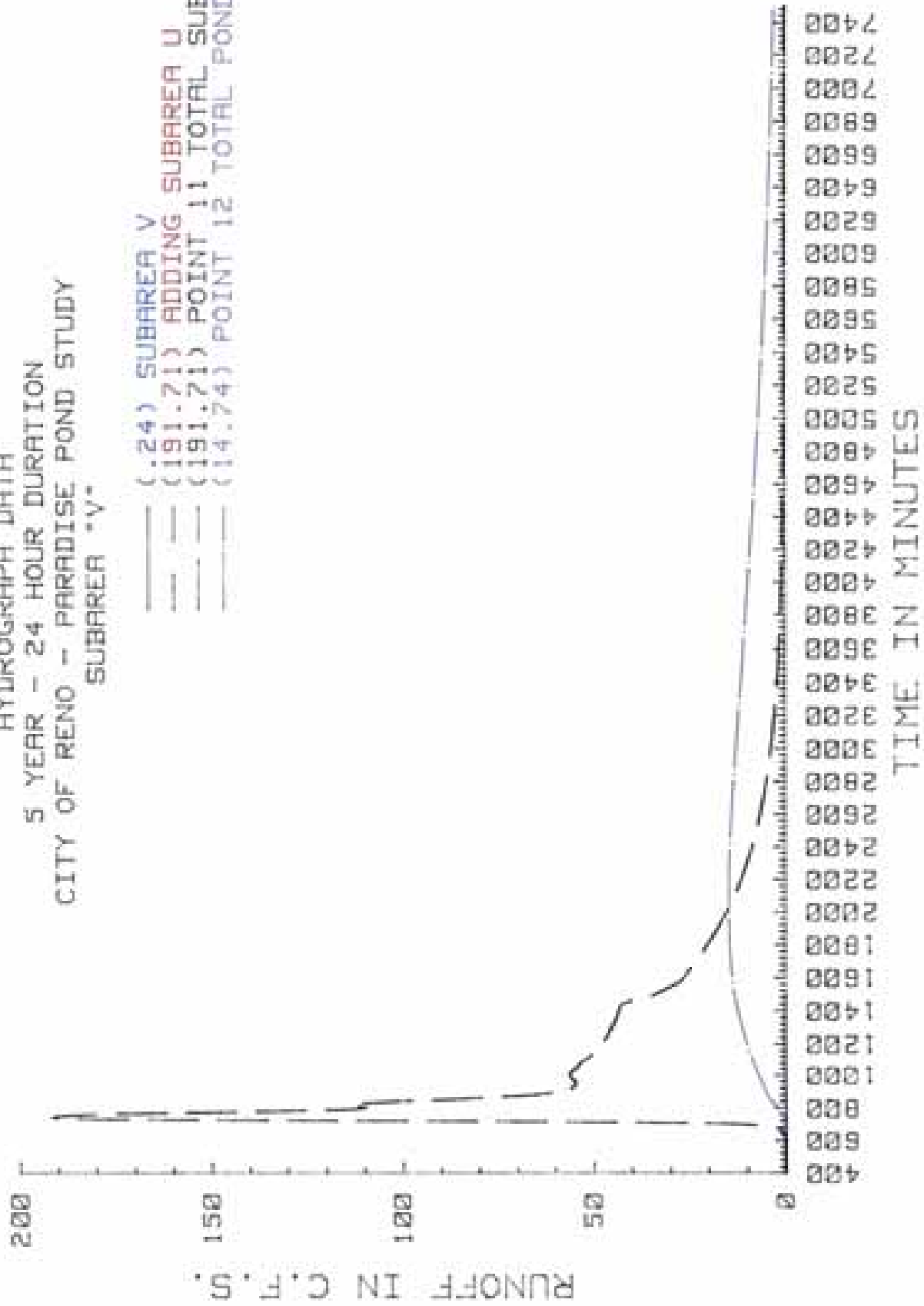
<u>Subarea Totals</u>	<u>5-Year 24-Hour</u>	<u>25-Year 24-Hour</u>	<u>50-Year 24-Hour</u>	<u>100-Year 24-Hour</u>
A	61.48 cfs @ 730 min.	158.82 cf @ 730 min.	237.00 cfs @ 730 min.	278.60 cfs @ 730 min.
B	54.62 cfs @ 745 min.	143.92 cfs @ 740 min.	217.10 cfs @ 740 min.	256.20 cfs @ 740 min.
C	14.36 cfs @ 720 min.	41.29 cfs @ 720 min.	63.42 cfs @ 720 min.	75.30 cfs @ 720 min.
D	104.77 cfs @ 725 min.	241.01 cfs @ 725 min.	348.08 cfs @ 725 min.	404.57 cfs @ 725 min.
E	121.82 cfs @ 760 min.	291.19 cfs @ 755 min.	425.59 cfs @ 755 min.	496.81 cfs @ 755 min.
F	110.52 cfs @ 720 min.	258.26 cfs @ 720 min.	373.59 cfs @ 720 min.	434.25 cfs @ 720 min.
G	139.30 cfs @ 850 min.	326.44 cfs @ 850 min.	474.56 cfs @ 850 min.	552.88 cfs @ 850 min.
H	19.74 cfs @ 720 min.	52.44 cfs @ 720 min.	78.85 cfs @ 720 min.	92.93 cfs @ 720 min.
I	151.41 cfs @ 735 min.	351.63 cfs @ 735 min.	512.01 cfs @ 735 min.	598.45 cfs @ 730 min.
J	80.99 cfs @ 725 min.	176.79 cfs @ 720 min.	253.47 cfs @ 720 min.	293.67 cfs @ 720 min.
R.R.	31.73 cfs @ 735 min.	36.35 cfs @ 735 min.	45.02 cfs @ 735 min.	55.69 cfs @ 730 min.
K	75.30 cfs @ 745 min.	209.81 cfs @ 745 min.	320.32 cfs @ 745 min.	379.60 cfs @ 745 min.
L	82.34 cfs @ 730 min.	211.65 cfs @ 780 min.	319.37 cfs @ 780 min.	377.00 cfs @ 780 min.
M	106.17 cfs @ 735 min.	228.51 cfs @ 735 min.	326.67 cfs @ 735 min.	382.15 cfs @ 795 min.
N	201.78 cfs @ 720 min.	425.35 cfs @ 720 min.	603.78 cfs @ 720 min.	680.65 cfs @ 720 min.

TABLE B-3 - (con't)

<u>Subarea Totals</u>	<u>5-Year 24-Hour</u>	<u>25-Year 24-Hour</u>	<u>50-Year 24-Hour</u>	<u>100-Year 24-Hour</u>
O	35.20 cfs @ 720 min.	70.00 cfs @ 720 min.	95.73 cfs @ 720 min.	108.98 cfs @ 720 min.
P	43.86 cfs @ 745 min.	97.13 cfs @ 740 min.	139.50 cfs @ 740 min.	161.96 cfs @ 740 min.
Q	14.88 cfs @ 720 min.	30.18 cfs @ 720 min.	41.59 cfs @ 720 min.	47.48 cfs @ 720 min.
R	37.09 cfs @ 720 min.	68.34 cfs @ 720 min.	90.86 cfs @ 720 min.	102.36 cfs @ 720 min.
S	37.35 cfs @ 720 min.	87.07 cfs @ 720 min.	125.88 cfs @ 720 min.	146.28 cfs @ 720 min.
T	120.10 cfs @ 755 min.	256.49 cfs @ 755 min.	365.04 cfs @ 755 min.	422.16 cfs @ 755 min.
U	191.71 cfs @ 745 min.	426.02 cfs @ 740 min.	614.36 cfs @ 740 min.	713.96 cfs @ 740 min.
V	191.71 cfs @ 745 min.	433.38 cfs @ 740 min.	636.10 cfs @ 740 min.	744.88 cfs @ 740 min.
Pond Outflow				
	14.74 cfs w/67.5ac.ft.	23.59 cfs w/141.0ac.ft.	48.06 cfs w/154.2ac.ft.	69.84 cfs w/161.4ac.ft.
Pond Overflow				
	0 cfs	2.09 cfs	26.56 cfs	48.34 cfs
W	6.55 cfs @ 760 min.	28.54 cfs @ 755 min.	49.94 cfs @ 750 min.	62.02 cfs @ 750 min.
X	14.74 cfs @ 2035 min.	35.82 cfs @ 750 min.	63.08 cfs @ 745 min.	78.89 cfs @ 745 min.
North Truckee Ditch				
	14.74 cfs @ 2045 min.	35.27 cfs @ 760 min.	62.11 cfs @ 760 min.	77.62 cfs @ 755 min.

HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

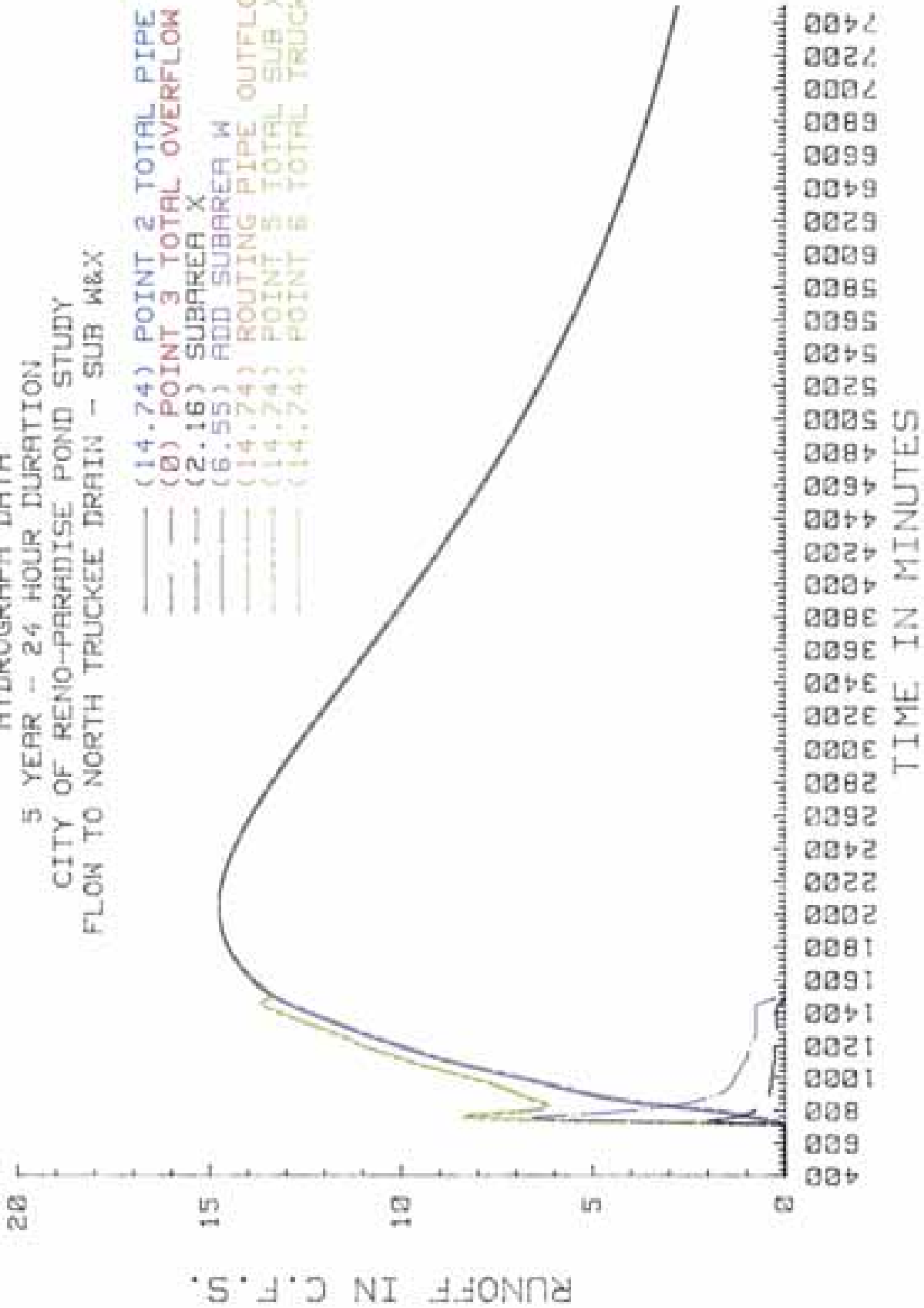
— (.24) SUBAREA V
 — (191.71) ADDING SUBAREA U
 — (191.71) POINT 11 TOTAL SUB V
 — (14.74) POINT 12 TOTAL POND OUTF



HYDROGRAPH DATA

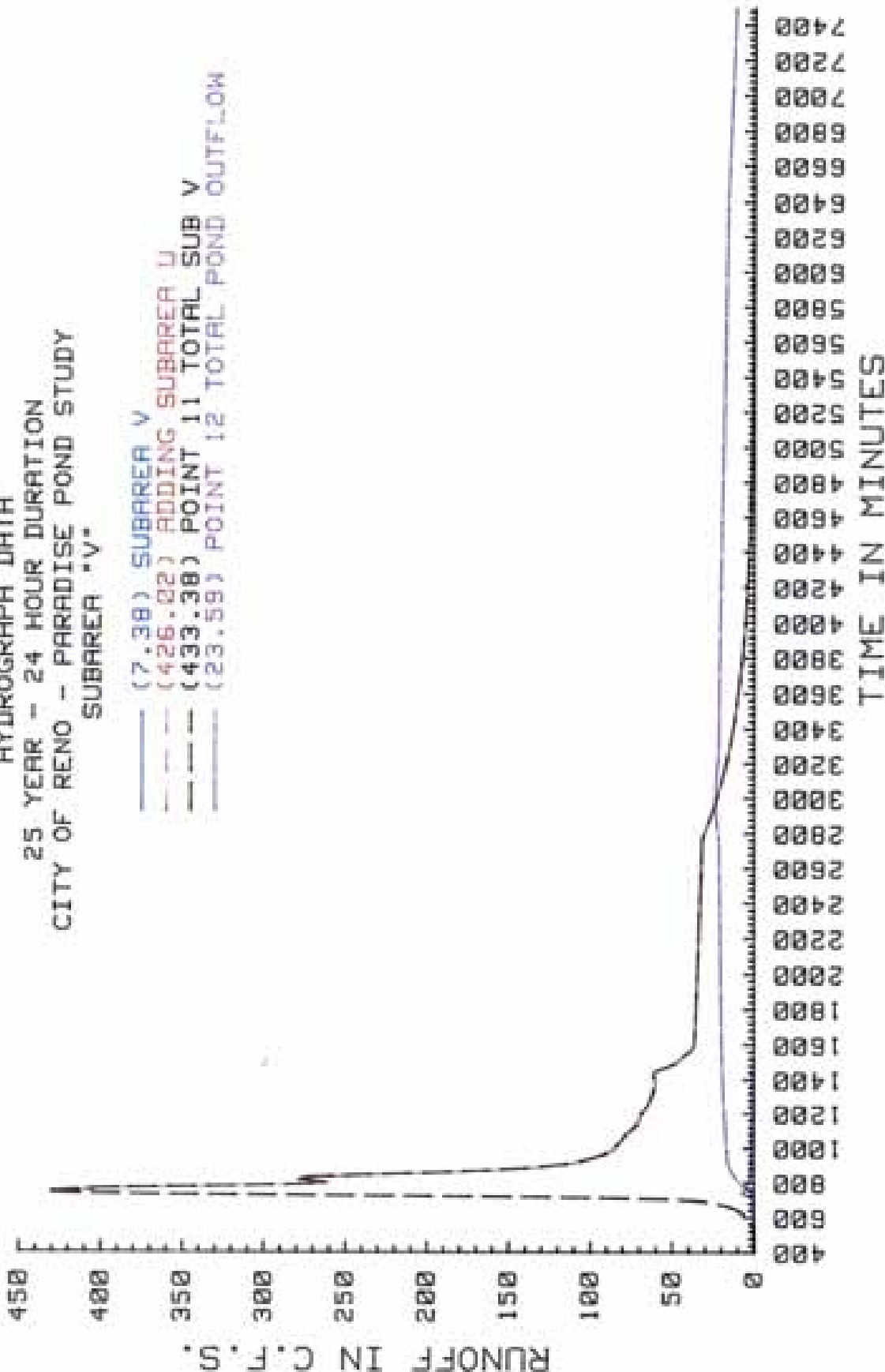
5 YEAR - 24 HOUR DURATION
 CITY OF RENO--PARADISE POND STUDY
 FLOW TO NORTH TRUCKEE DRAIN - SUB W&X

- (14.74) POINT 2 TOTAL PIPE FLOW
- - (0) POINT 3 TOTAL OVERFLOW
- - (2.16) SUBAREA X
- - (6.55) ADD SUBAREA W
- - (14.74) ROUTING PIPE OUTFLOW
- - (14.74) POINT 5 TOTAL SUB X
- - (14.74) POINT 6 TOTAL TRUCKEE DR



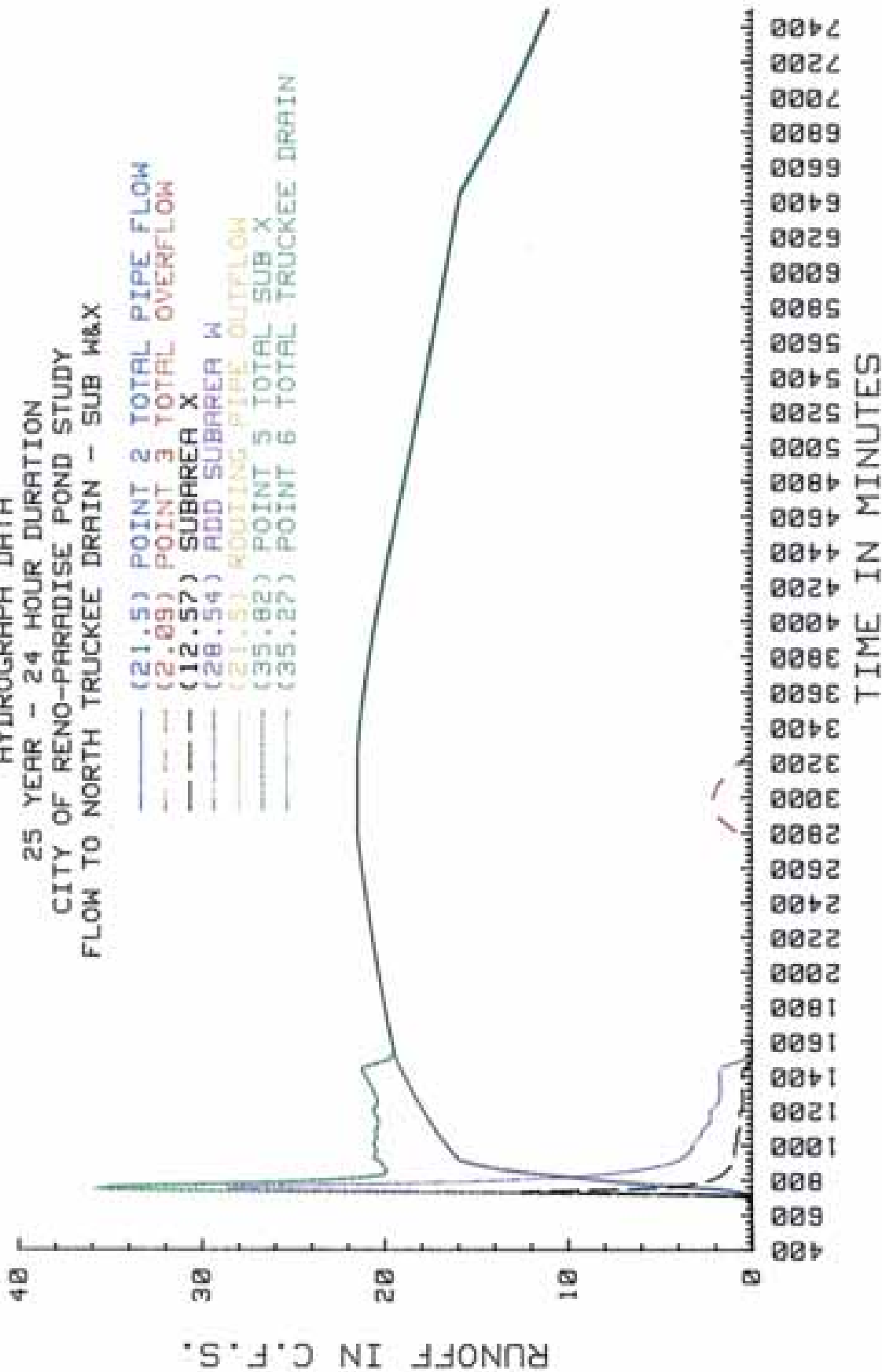
HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

(7.38) SUBAREA V
 (426.02) ADDING SUBAREA U
 (433.38) POINT 11 TOTAL SUB V
 (23.59) POINT 12 TOTAL POND OUTFLOW



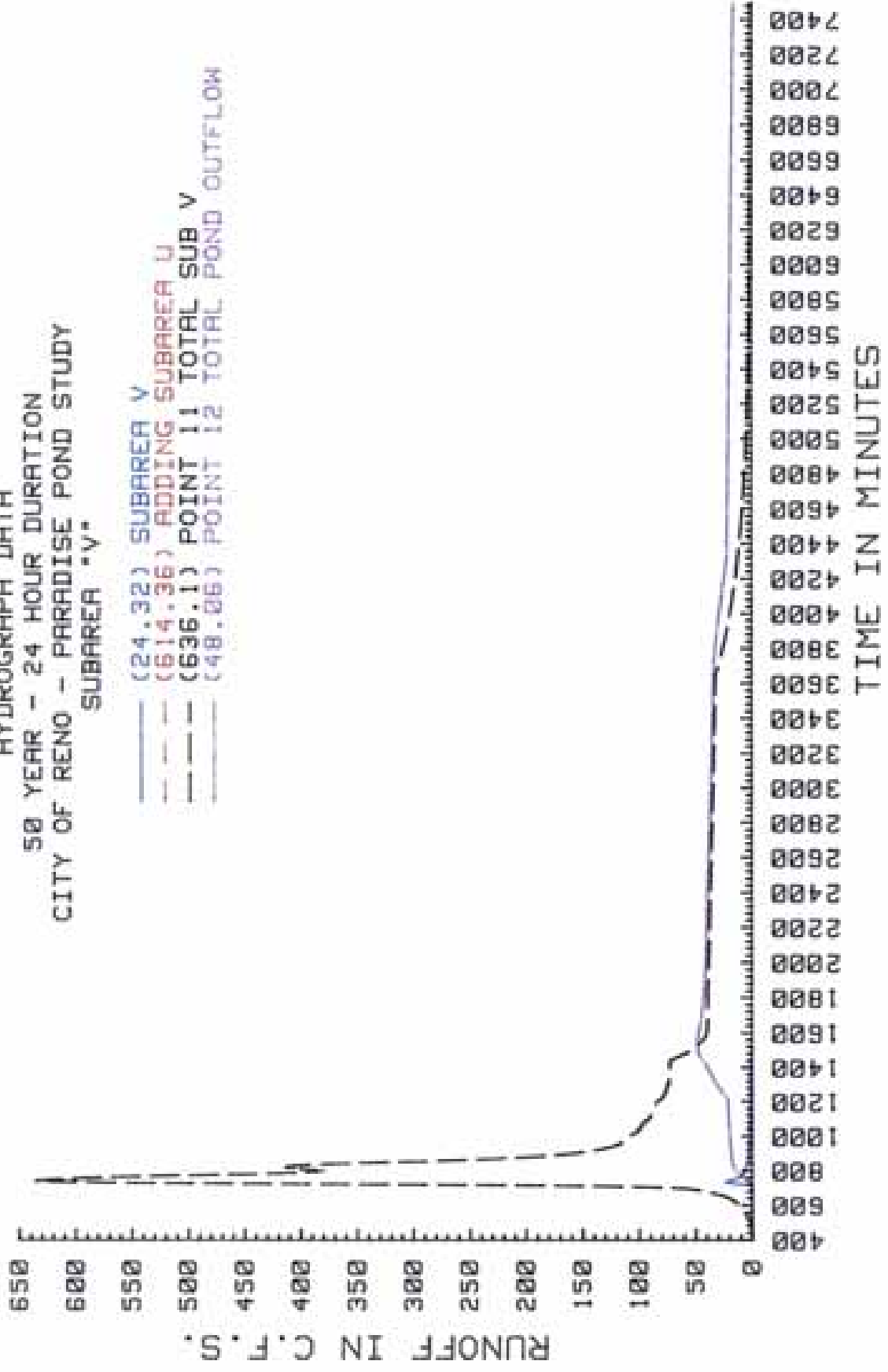
HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO-PARADISE POND STUDY
 FLOW TO NORTH TRUCKEE DRAIN - SUB MAX

(21.5) POINT 2 TOTAL PIPE FLOW
 (2.09) POINT 3 TOTAL OVERFLOW
 (12.57) SUBAREA X
 (28.54) ADD SUBAREA W
 (21.5) ROUTING PIPE OUTFLOW
 (35.82) POINT 5 TOTAL SUB X
 (35.27) POINT 6 TOTAL TRUCKEE DRAIN



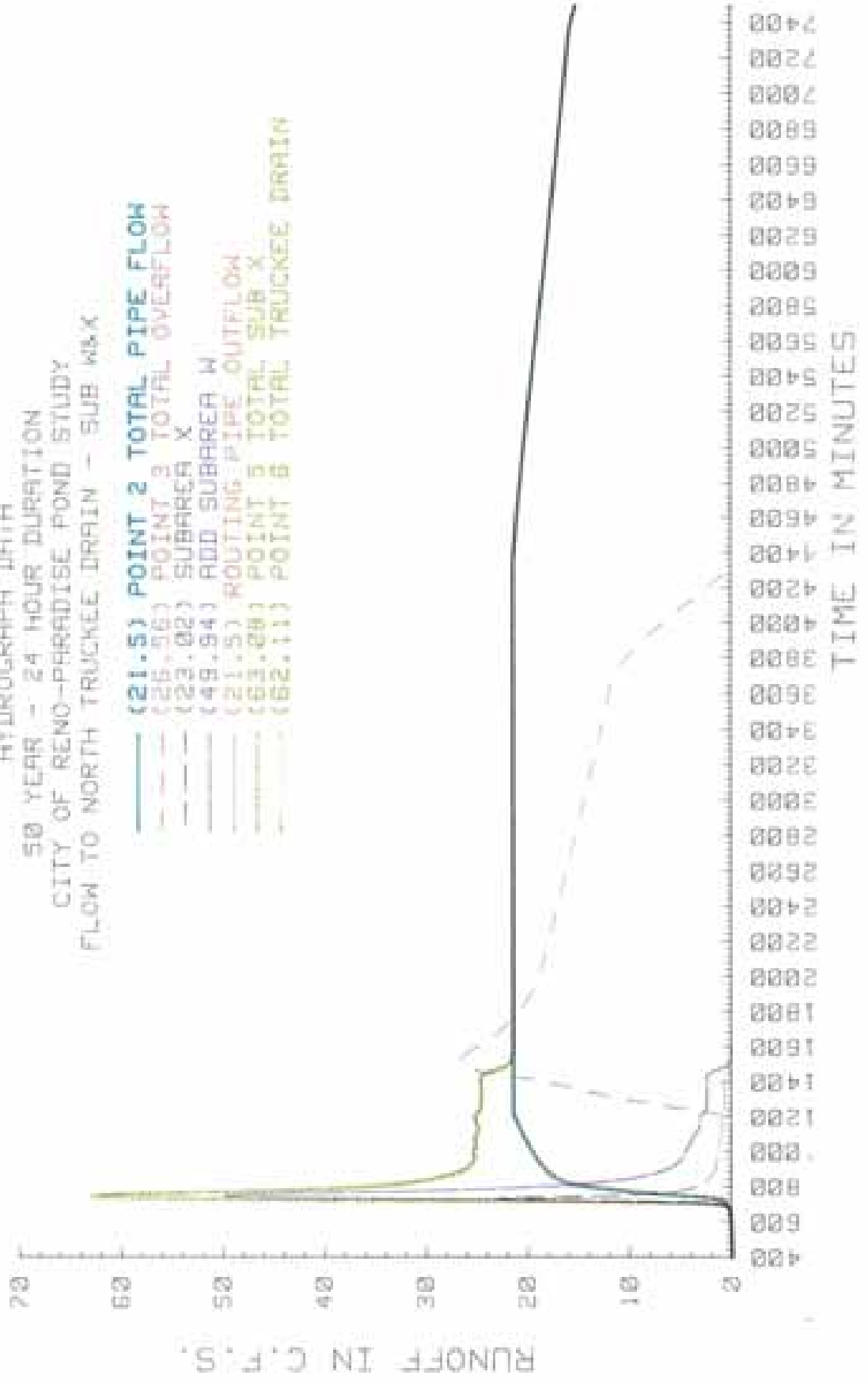
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

(24.32) SUBAREA V
 (614.36) ADDING SUBAREA U
 (636.1) POINT 11 TOTAL SUB V
 (48.85) POINT 12 TOTAL POND OUTFLOW



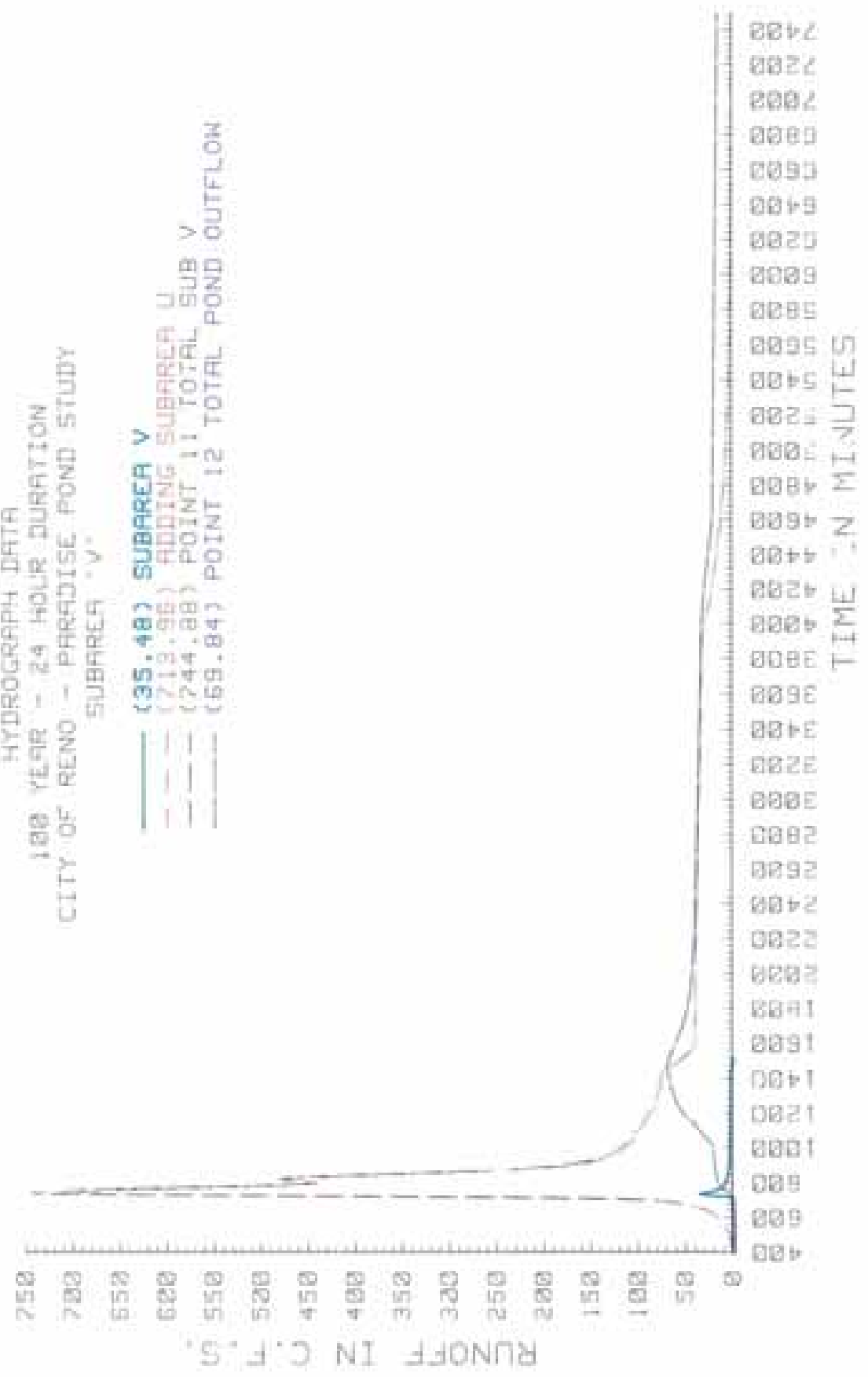
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF REMO-PARADISE POND STUDY
 FLOW TO NORTH TRUCKEE DRAIN - SUB W&X

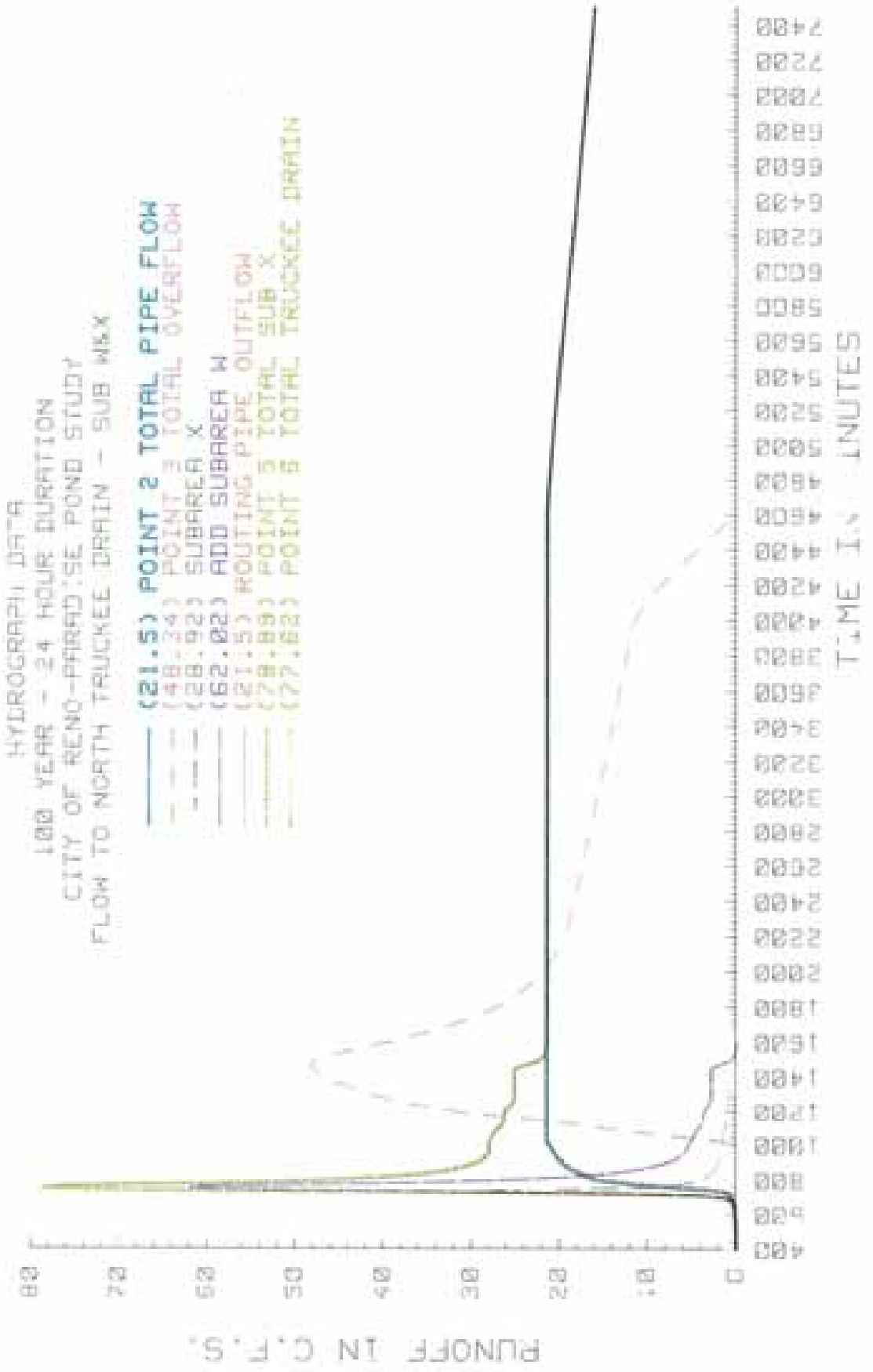
(21.5) POINT 2 TOTAL PIPE FLOW
 (26.56) POINT 3 TOTAL OVERFLOW
 (23.02) SUBAREA X
 (49.94) ADD SUBAREA W
 (21.5) ROUTING PIPE OUTFLOW
 (63.29) POINT 5 TOTAL SUB X
 (62.11) POINT 5 TOTAL TRUCKEE DRAIN



TIME IN MINUTES

HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "V"
(35.48) SUBAREA V
(719.96) ADDING SUBAREA U
(744.88) POINT 11 TOTAL SUB V
(59.84) POINT 12 TOTAL POND OUTFLOW





הנהגות המנהל הכללי של רשות המבחן

✓ APPENDIX C

TABLE C-1

CONDITION NO. 3 WITH 3-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
A	2.75 cfs @ 110 min.	11.20 cfs @ 80 min.	19.68 cfs @ 60 min.	33.80 cfs @ 60 min.
B	3.30 cfs @ 130 min.	13.47 cfs @ 105 min.	22.97 cfs @ 90 min.	38.01 cfs @ 75 min.
C	0.23 cfs @ 155 min.	1.48 cfs @ 75 min.	2.76 cfs @ 55 min.	5.15 cfs @ 50 min.
D	7.82 cfs @ 105 min.	26.45 cfs @ 80 min.	43.31 cfs @ 80 min.	68.04 cfs @ 75 min.
E	14.37 cfs @ 130 min.	47.14 cfs @ 105 min.	75.56 cfs @ 100 min.	116.72 cfs @ 95 min.
F	3.80 cfs @ 95 min.	14.40 cfs @ 50 min.	24.88 cfs @ 45 min.	44.08 cfs @ 35 min.
G	18.44 cfs @ 215 min.	60.21 cfs @ 200 min.	95.82 cfs @ 195 min.	147.56 cfs @ 190 min.
H	0.38 cfs @ 125 min.	2.03 cfs @ 75 min.	3.76 cfs @ 50 min.	6.72 cfs @ 50 min.
I	18.26 cfs @ 260 min.	59.53 cfs @ 245 min.	23.88 cfs @ 235 min.	145.96 cfs @ 230 min.
J	4.32 cfs @ 75 min.	14.74 cfs @ 50 min.	24.47 cfs @ 40 min.	40.34 cfs @ 40 min.
R.R.	4.50 cfs @ 260 min.	14.88 cfs @ 245 min.	23.60 cfs @ 235 min.	31.99 cfs @ 230 min.
K	4.02 cfs @ 150 min.	18.67 cfs @ 110 min.	32.43 cfs @ 95 min.	54.50 cfs @ 85 min.
L	7.17 cfs @ 160 min.	27.61 cfs @ 135 min.	46.47 cfs @ 120 min.	75.60 cfs @ 110 min.
M	11.36 cfs @ 80 min.	33.88 cfs @ 135 min.	55.63 cfs @ 130 min.	88.03 cfs @ 125 min.
N	16.55 cfs @ 55 min.	45.86 cfs @ 35 min.	71.60 cfs @ 35 min.	106.18 cfs @ 35 min.

TABLE C-1 - (con't)

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
Split Box	4.49 cfs @ 405 min.	14.85 cfs @ 395 min.	23.56 cfs @ 390 min.	31.99 cfs @ 390 min.
Freeway	4.49 cfs @ 405 min.	14.85 cfs @ 395 min.	23.56 cfs @ 390 min.	31.99 cfs @ 390 min.
O	2.00 cfs @ 50 min.	6.40 cfs @ 30 min.	10.77 cfs @ 30 min.	16.86 cfs @ 30 min.
P	4.36 cfs @ 105 min.	12.81 cfs @ 80 min.	20.21 cfs @ 75 min.	31.16 cfs @ 70 min.
Q	0.91 cfs @ 55 min.	2.85 cfs @ 35 min.	4.64 cfs @ 35 min.	7.19 cfs @ 30 min.
R	2.88 cfs @ 35 min.	6.41 cfs @ 30 min.	8.37 cfs @ 30 min.	10.95 cfs @ 30 min.
S	28.05 cfs @ 75 min.	77.51 cfs @ 55 min.	116.99 cfs @ 50 min.	173.60 cfs @ 50 min.
T	3.29 cfs @ 85 min.	10.27 cfs @ 60 min.	16.47 cfs @ 55 min.	25.56 cfs @ 55 min.
U	37.96 cfs @ 85 min.	107.36 cfs @ 65 min.	168.11 cfs @ 60 min.	253.90 cfs @ 60 min.
V	37.96 cfs @ 85 min.	107.36 cfs @ 65 min.	168.11 cfs @ 60 min.	253.90 cfs @ 60 min.
Paradise Pond outlet; one 30-inch pipe under inlet condition:				
	0.71 cfs @ 85 min. w/7.1 ac.ft.	2.68 cfs @ 65 min. w/20.4 ac.ft.	5.47 cfs @ 60 min. w/31 ac.ft.	9.35 cfs @ 60 min. w/45.8 ac.ft.
	2.88 cfs @ 35 min.	6.41 cfs @ 30 min.	8.37 cfs @ 30 min.	10.95 cfs @ 30 min.

TABLE C-2

CONDITION NO. 3 WITH 6-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
A	4.44 cfs @ 215 min.	19.78 cfs @ 165 min.	32.51 cfs @ 165 min.	64.51 cfs @ 160 min.
B	5.58 cfs @ 235 min.	20.28 cfs @ 180 min.	33.25 cfs @ 180 min.	64.91 cfs @ 175 min.
C	0.53 cfs @ 360 min.	2.70 cfs @ 155 min.	5.56 cfs @ 150 min.	12.52 cfs @ 150 min.
D	14.25 cfs @ 160 min.	40.17 cfs @ 160 min.	60.64 cfs @ 160 min.	109.27 cfs @ 160 min.
E	22.64 cfs @ 215 min.	62.85 cfs @ 200 min.	93.42 cfs @ 200 min.	164.25 cfs @ 195 min.
F	7.48 cfs @ 155 min.	32.16 cfs @ 150 min.	50.44 cfs @ 150 min.	90.93 cfs @ 150 min.
G	30.85 cfs @ 320 min.	81.25 cfs @ 300 min.	118.63 cfs @ 295 min.	203.76 cfs @ 290 min.
H	0.72 cfs @ 245 min.	4.25 cfs @ 150 min.	7.88 cfs @ 150 min.	16.24 cfs @ 150 min.
I	40.22 cfs @ 360 min.	99.19 cfs @ 345 min.	141.93 cfs @ 340 min.	237.75 cfs @ 335 min.
J	9.55 cfs @ 155 min.	29.24 cfs @ 155 min.	42.94 cfs @ 150 min.	75.31 cfs @ 150 min.
R.R.	10.41 cfs @ 360 min.	25.11 cfs @ 345 min.	31.94 cfs @ 340 min.	34.20 cfs @ 335 min.
K	7.61 cfs @ 265 min.	26.83 cfs @ 185 min.	45.40 cfs @ 180 min.	91.94 cfs @ 180 min.
L	12.91 cfs @ 270 min.	38.44 cfs @ 225 min.	60.12 cfs @ 220 min.	112.34 cfs @ 215 min.
M	20.12 cfs @ 170 min.	50.82 cfs @ 170 min.	72.54 cfs @ 165 min.	126.19 cfs @ 230 min.
N	36.35 cfs @ 150 min.	82.24 cfs @ 150 min.	111.54 cfs @ 150 min.	174.64 cfs @ 150 min.

TABLE C-2 - (con't)

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
Split Box	10.39 cfs @ 570 min.	25.08 cfs @ 560 min.	31.94 cfs @ 560 min.	34.20 cfs @ 580 min.
Freeway	10.39 cfs @ 570 min.	25.08 cfs @ 560 min.	31.94 cfs @ 560 min.	34.20 cfs @ 580 min.
O	5.15 cfs @ 150 min.	12.08 cfs @ 150 min.	16.96 cfs @ 145 min.	27.45 cfs @ 145 min.
P	7.28 cfs @ 185 min.	19.80 cfs @ 175 min.	29.04 cfs @ 175 min.	49.42 cfs @ 175 min.
Q	2.23 cfs @ 150 min.	5.48 cfs @ 150 min.	7.63 cfs @ 150 min.	12.16 cfs @ 150 min.
R	5.13 cfs @ 150 min.	8.44 cfs @ 150 min.	10.90 cfs @ 150 min.	31.06 cfs @ 145 min.
S	54.18 cfs @ 155 min.	129.91 cfs @ 150 min.	183.30 cfs @ 150 min.	301.32 cfs @ 150 min.
T	6.30 cfs @ 165 min.	17.52 cfs @ 165 min.	25.68 cfs @ 160 min.	43.91 cfs @ 160 min.
U	65.57 cfs @ 170 min.	168.55 cfs @ 160 min.	243.33 cfs @ 160 min.	415.65 cfs @ 160 min.
V	65.57 cfs @ 170 min.	168.55 cfs @ 160 min.	243.33 cfs @ 160 min.	415.65 cfs @ 160 min.
Paradise Pond Outlet; One 30-inch pipe under inlet condition:				
	1.54 cfs @ 170 min. w/15.3ac.ft.	6.28 cfs @ 160 min. w/34.0ac.ft.	9.60 cfs @ 160 min. w/46.8ac.ft.	16.13 cfs @ 160 min. w/75.0ac.ft.

TABLE C-3

CONDITION NO. 3 WITH 24-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 24-Hour</u>	<u>25-Year 24-Hour</u>	<u>50-Year 24-Hour</u>	<u>100-Year 24-Hour</u>
A	61.48 cfs @ 730 min.	158.82 cf @ 730 min.	237.00 cfs @ 730 min.	278.60 cfs @ 730 min.
B	54.62 cfs @ 745 min.	143.92 cfs @ 740 min.	217.10 cfs @ 740 min.	256.20 cfs @ 740 min.
C	14.36 cfs @ 720 min.	41.29 cfs @ 720 min.	63.42 cfs @ 720 min.	75.30 cfs @ 720 min.
D	104.77 cfs @ 725 min.	241.01 cfs @ 725 min.	348.08 cfs @ 725 min.	404.57 cfs @ 725 min.
E	121.82 cfs @ 760 min.	291.19 cfs @ 755 min.	425.59 cfs @ 755 min.	496.81 cfs @ 755 min.
F	110.52 cfs @ 720 min.	258.26 cfs @ 720 min.	373.59 cfs @ 720 min.	434.25 cfs @ 720 min.
G	139.30 cfs @ 850 min.	326.44 cfs @ 850 min.	474.56 cfs @ 850 min.	552.88 cfs @ 850 min.
H	19.74 cfs @ 720 min.	52.44 cfs @ 720 min.	78.85 cfs @ 720 min.	92.93 cfs @ 720 min.
I	151.41 cfs @ 735 min.	351.63 cfs @ 735 min.	512.01 cfs @ 735 min.	598.45 cfs @ 730 min.
J	80.99 cfs @ 725 min.	176.79 cfs @ 720 min.	253.47 cfs @ 720 min.	293.67 cfs @ 720 min.
R.R.	31.73 cfs @ 735 min.	36.35 cfs @ 735 min.	45.02 cfs @ 735 min.	55.69 cfs @ 730 min.
K	75.30 cfs @ 745 min.	209.81 cfs @ 745 min.	320.32 cfs @ 745 min.	379.60 cfs @ 745 min.
L	82.34 cfs @ 730 min.	211.65 cfs @ 780 min.	319.37 cfs @ 780 min.	377.00 cfs @ 780 min.
M	106.17 cfs @ 735 min.	228.51 cfs @ 735 min.	326.67 cfs @ 735 min.	382.15 cfs @ 795 min.
N	201.78 cfs @ 720 min.	425.35 cfs @ 720 min.	603.78 cfs @ 720 min.	680.65 cfs @ 720 min.

TABLE C-3 - (con't)

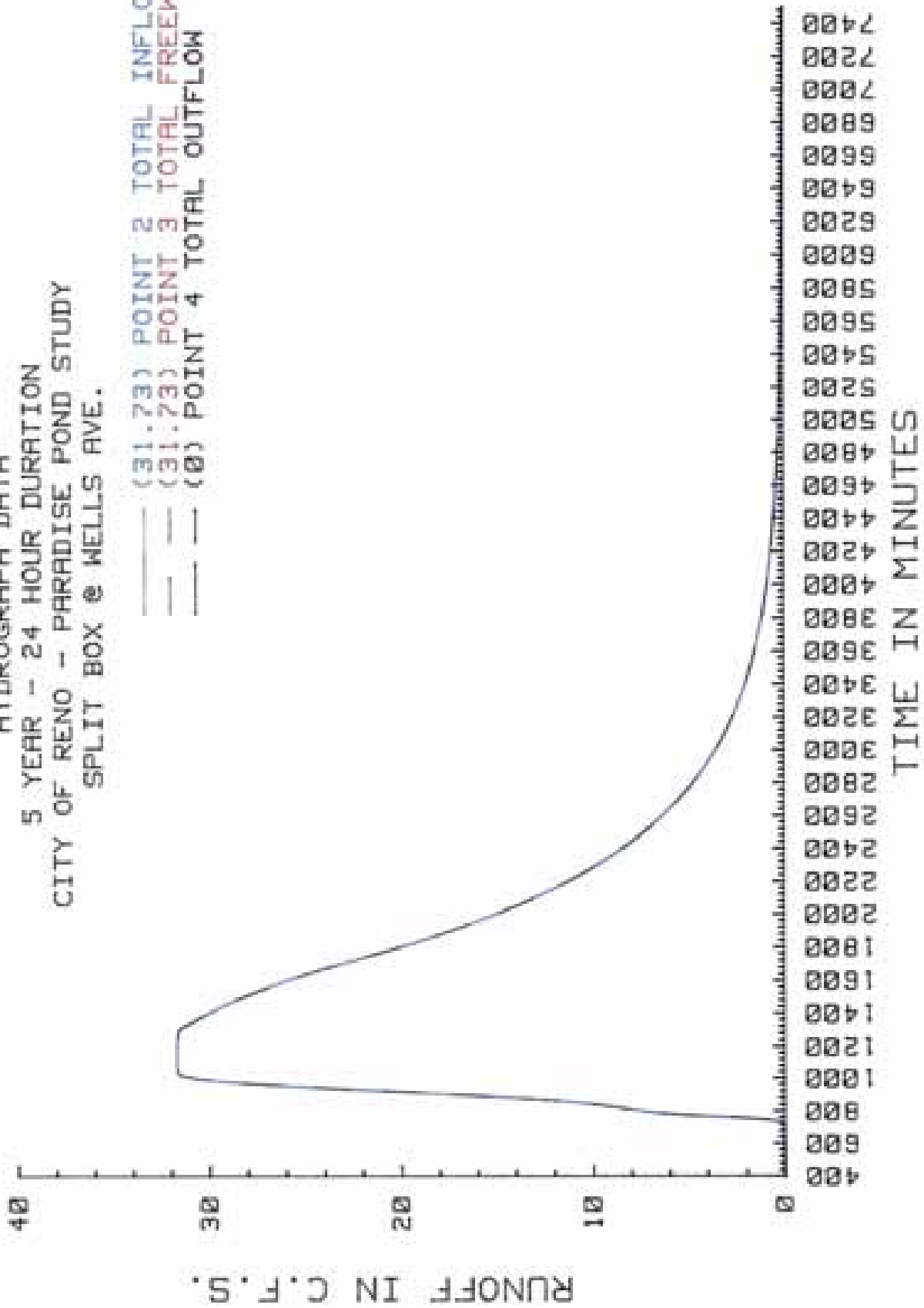
<u>Subarea</u> <u>Totals</u>	<u>5-Year</u> <u>24-Hour</u>	<u>25-Year</u> <u>24-Hour</u>	<u>50-Year</u> <u>24-Hour</u>	<u>100-Year</u> <u>24-Hour</u>
Split Box	31.73 cfs @1115 min.	36.35 cfs @1355 min.	39.30 cfs @1185 min.	39.30 cfs @1105 min.
Freeway	31.73 cfs @1115 min.	36.35 cfs @1355 min.	39.30 cfs @1185 min.	39.30 cfs @1105 min.
O	35.30 cfs @ 720 min.	70.00 cfs @ 720 min.	95.73 cfs @ 720 min.	108.98 cfs @ 720 min.
P	43.11 cfs @ 745 min.	94.71 cfs @ 740 min.	134.61 cfs @ 740 min.	155.48 cfs @ 740 min.
Q	14.88 cfs @ 720 min.	30.18 cfs @ 720 min.	41.59 cfs @ 720 min.	47.48 cfs @ 720 min.
R	37.09 cfs @ 720 min.	68.34 cfs @ 720 min.	⁹¹ 41.59 cfs @ 720 min.	¹⁰² 47.48 cfs @ 720 min.
S	311.01 cfs @ 720 min.	670.82 cfs @ 720 min.	959.38 cfs @ 720 min.	1094.54 cfs @ 720 min.
T	42.17 cfs @ 730 min.	91.89 cfs @ 730 min.	129.91 cfs @ 730 min.	149.74 cfs @ 730 min.
U	385.60 cfs @ 730 min.	847.93 cfs @ 730 min.	1191.16 cfs @ 730 min.	1371.71 cfs @ 730 min.
V	385.60 cfs @ 730 min.	854.19 cfs @ 730 min.	1214.46 cfs @ 730 min.	1406.94 cfs @ 730 min.

Paradise Pond Outlet; the minimum size pipe under inlet condition to keep from overflowing Paradise Pond:

30" pipe	60" pipe	2-60" pipes	2-66" pipes
10.50 cfs	50.36 cfs	134.99 cfs	177.66 cfs
@ 730 min.	@ 730 min.	@ 730 min.	@ 730 min.
w/50.4 ac.ft.	w/88.2 ac.ft.	w/109.8 ac.ft.	w/124.5 ac.ft.

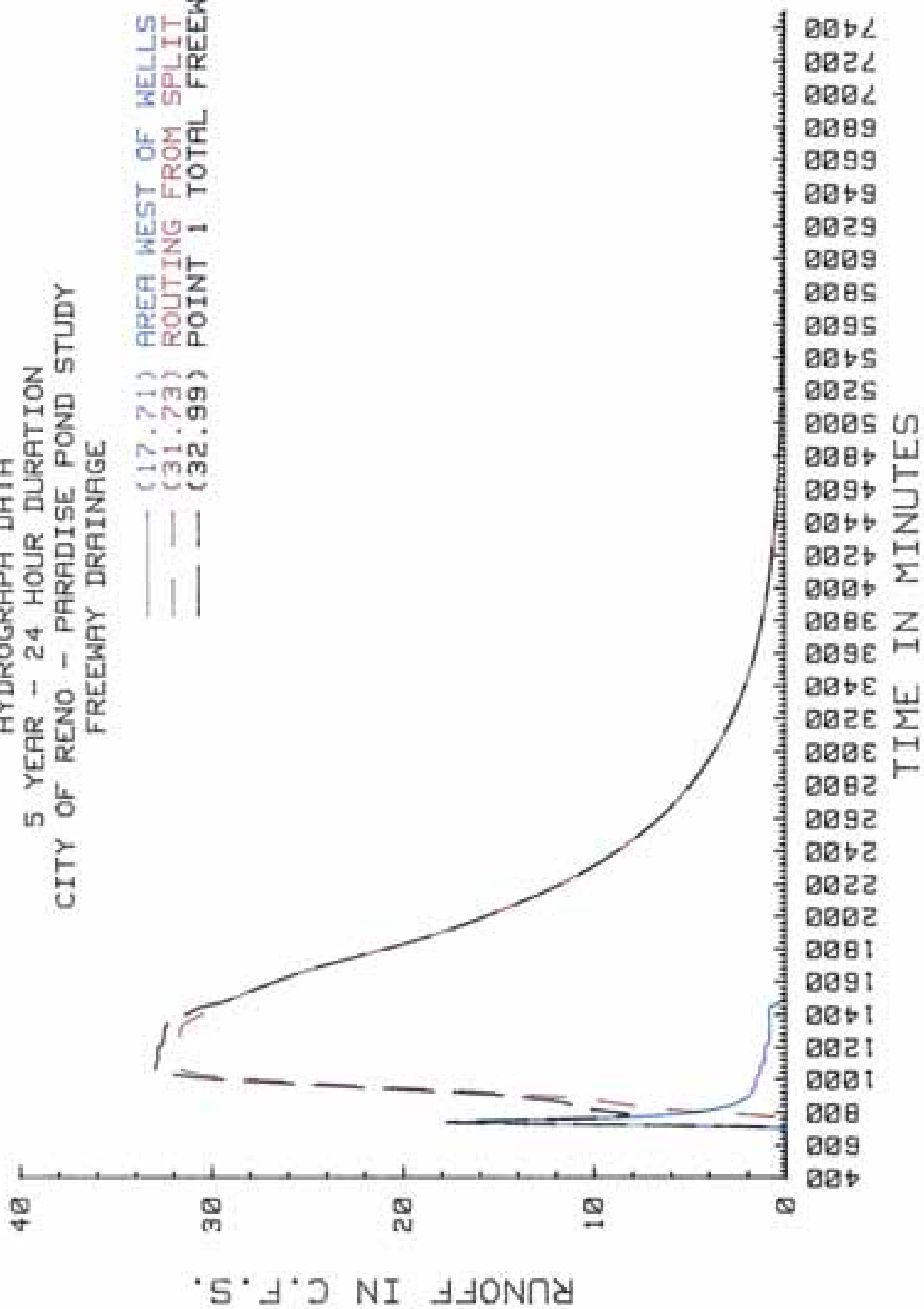
HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SPLIT BOX @ WELLS AVE.

— (31.73) POINT 2 TOTAL INFLOW
 — (31.73) POINT 3 TOTAL FREEWAY
 — (8) POINT 4 TOTAL OUTFLOW



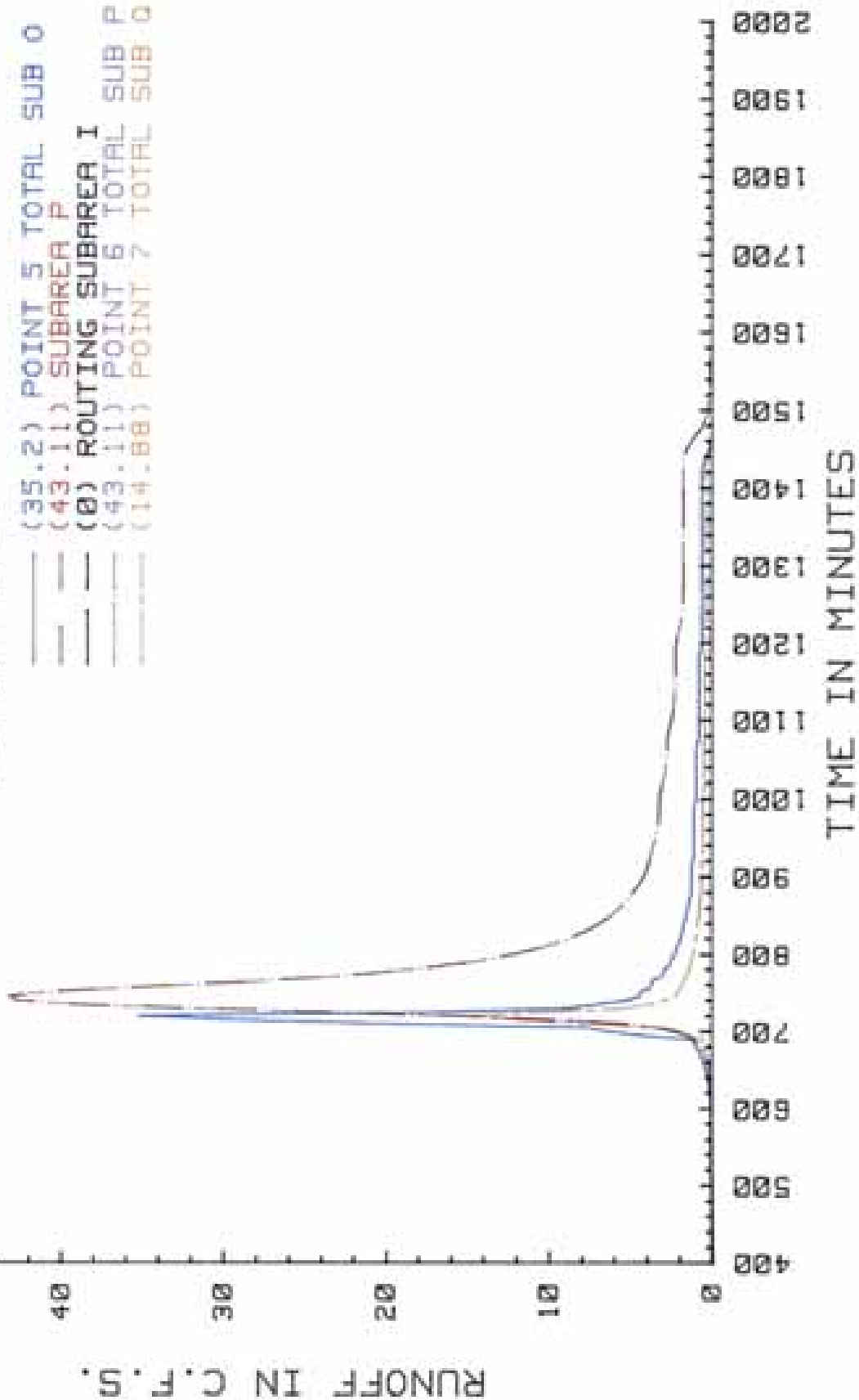
HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

(17.71) AREA WEST OF WELLS
 (31.73) ROUTING FROM SPLIT BOX
 (32.99) POINT 1 TOTAL FREEWAY



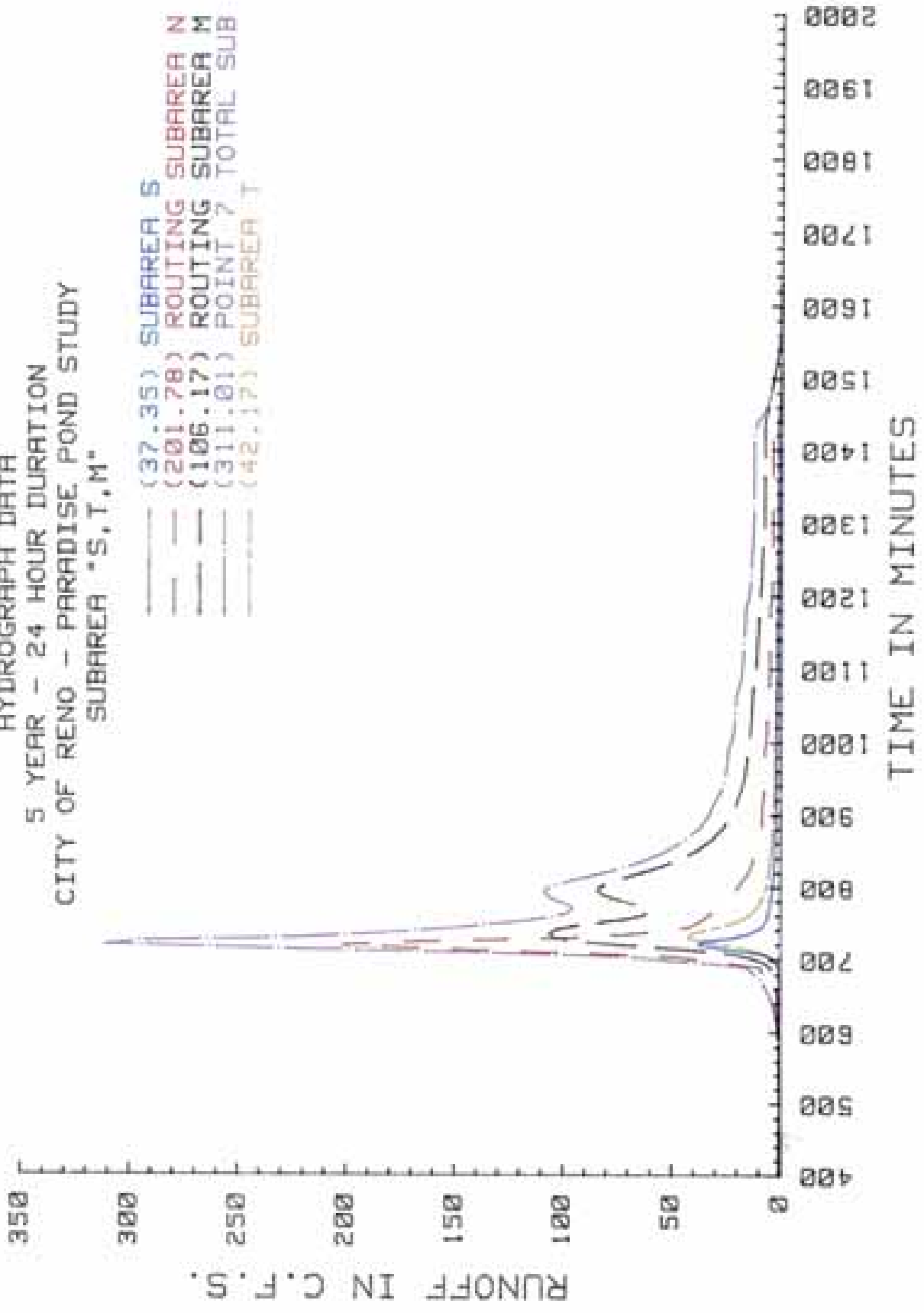
HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "O,P,Q"

---	(35.2)	POINT 5	TOTAL	SUB 0
---	(43.11)	SUBAREA	P	
---	(0)	ROUTING	SUBAREA	I
---	(43.11)	POINT 6	TOTAL	SUB P
---	(14.88)	POINT 7	TOTAL	SUB Q

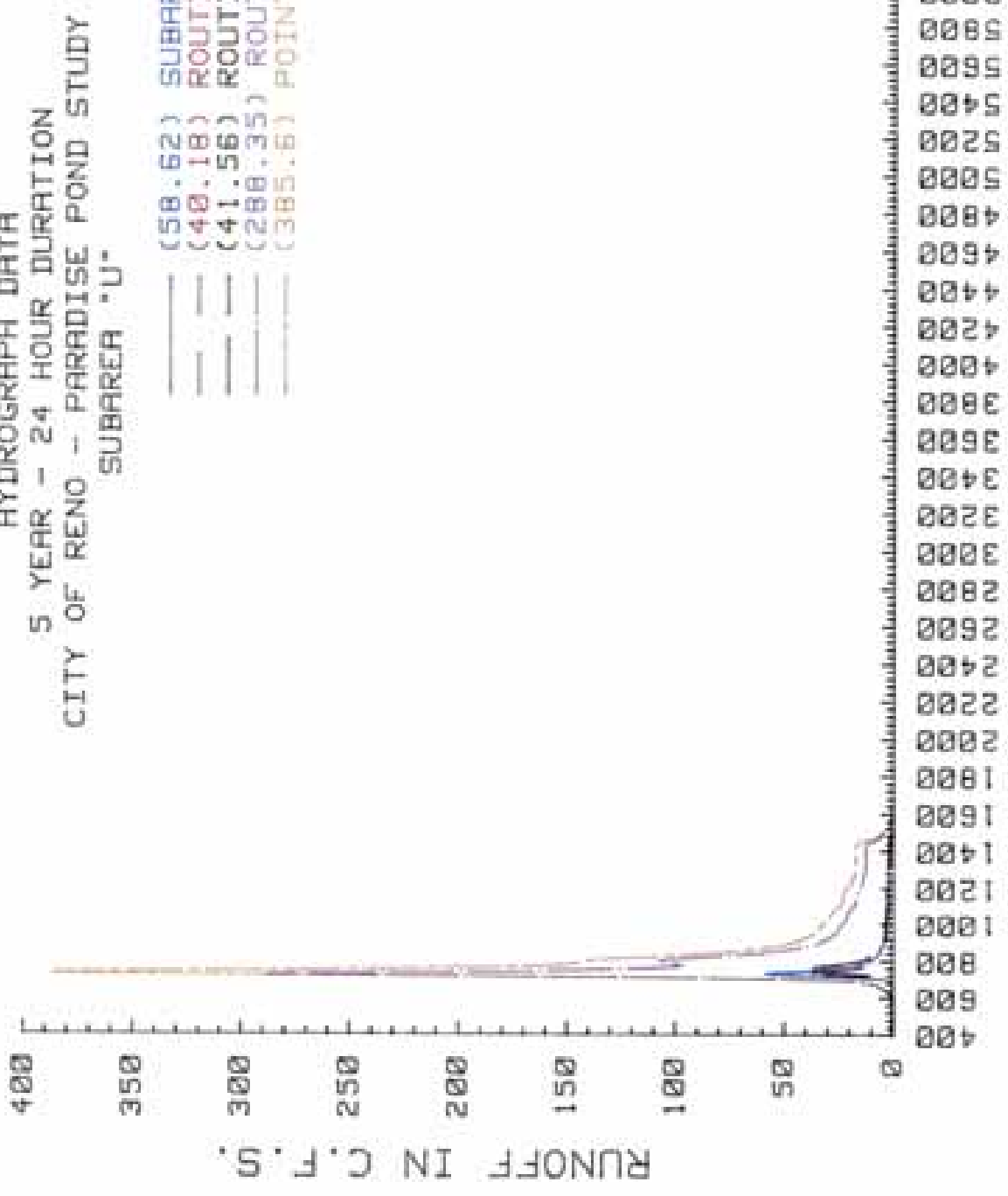


HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S.T.M."

- (37.35) SUBAREA S
- (201.78) ROUTING SUBAREA N
- (106.17) ROUTING SUBAREA M
- (311.01) POINT 7 TOTAL SUB S
- (42.17) SUBAREA T



HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA "U"

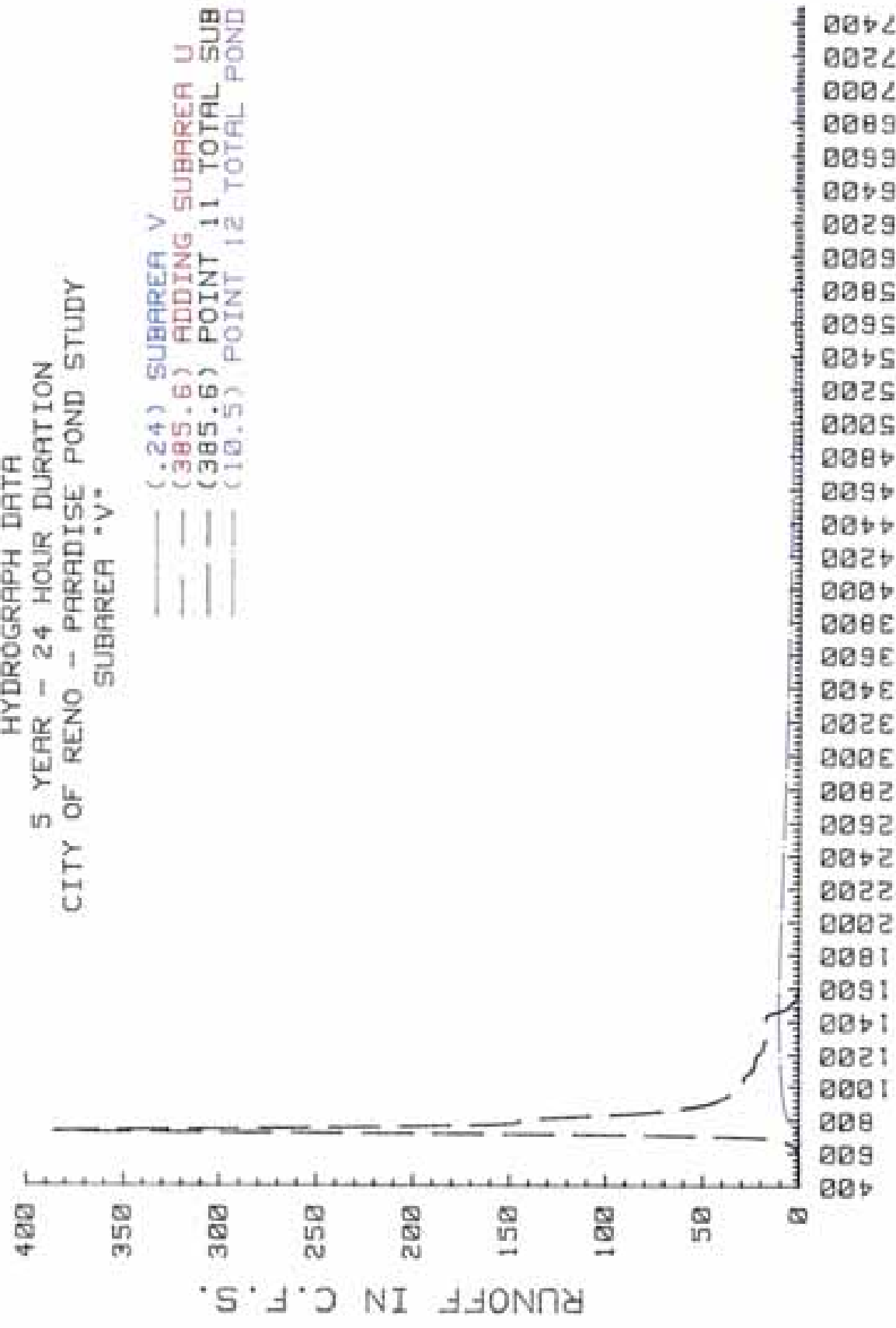


TIME IN MINUTES

RUNOFF IN C.F.S.

HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

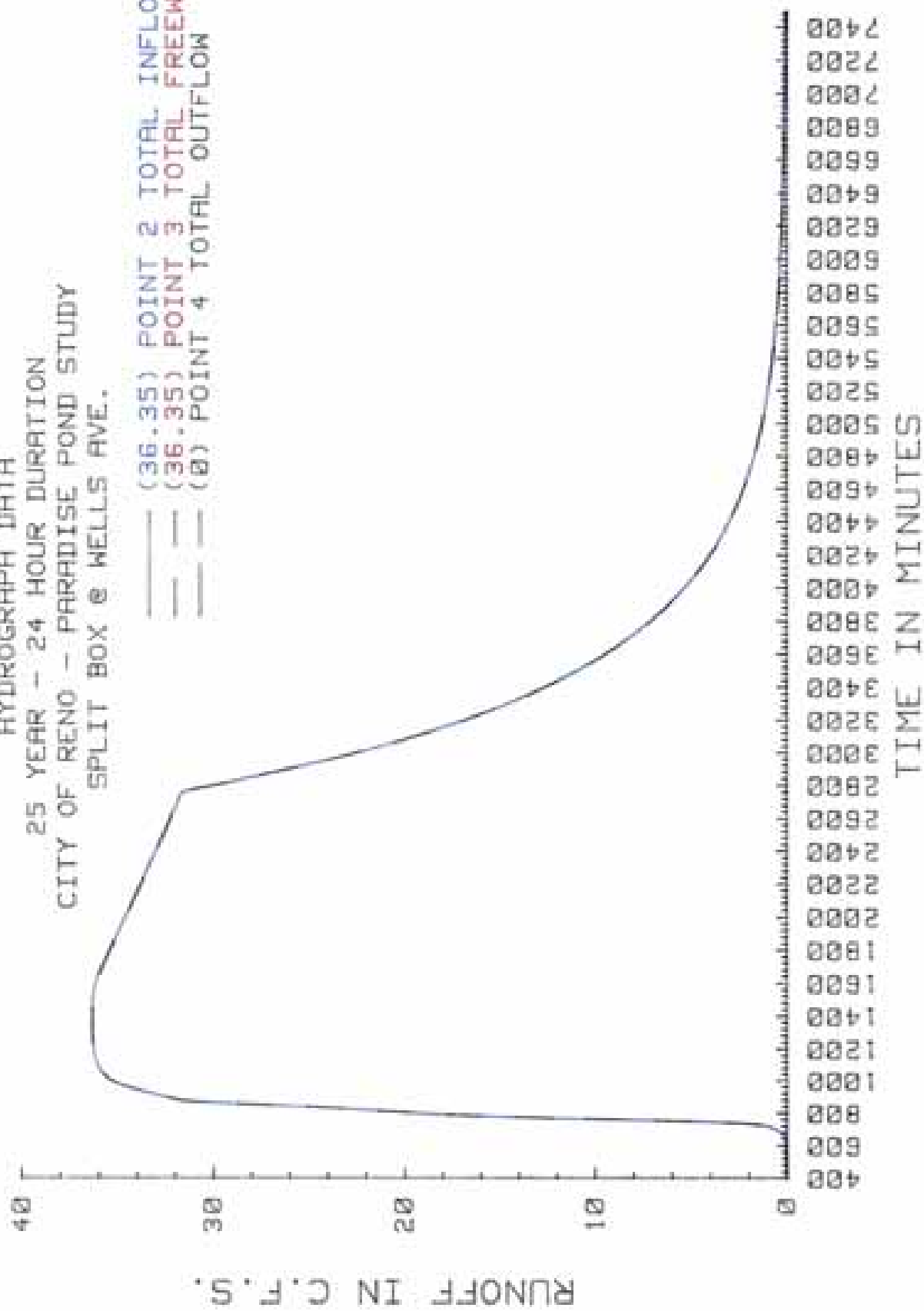
- (.24) SUBAREA V
- (385.6) ADDING SUBAREA U
- (385.6) POINT 11 TOTAL SUB V
- (10.5) POINT 12 TOTAL POND OUTFL

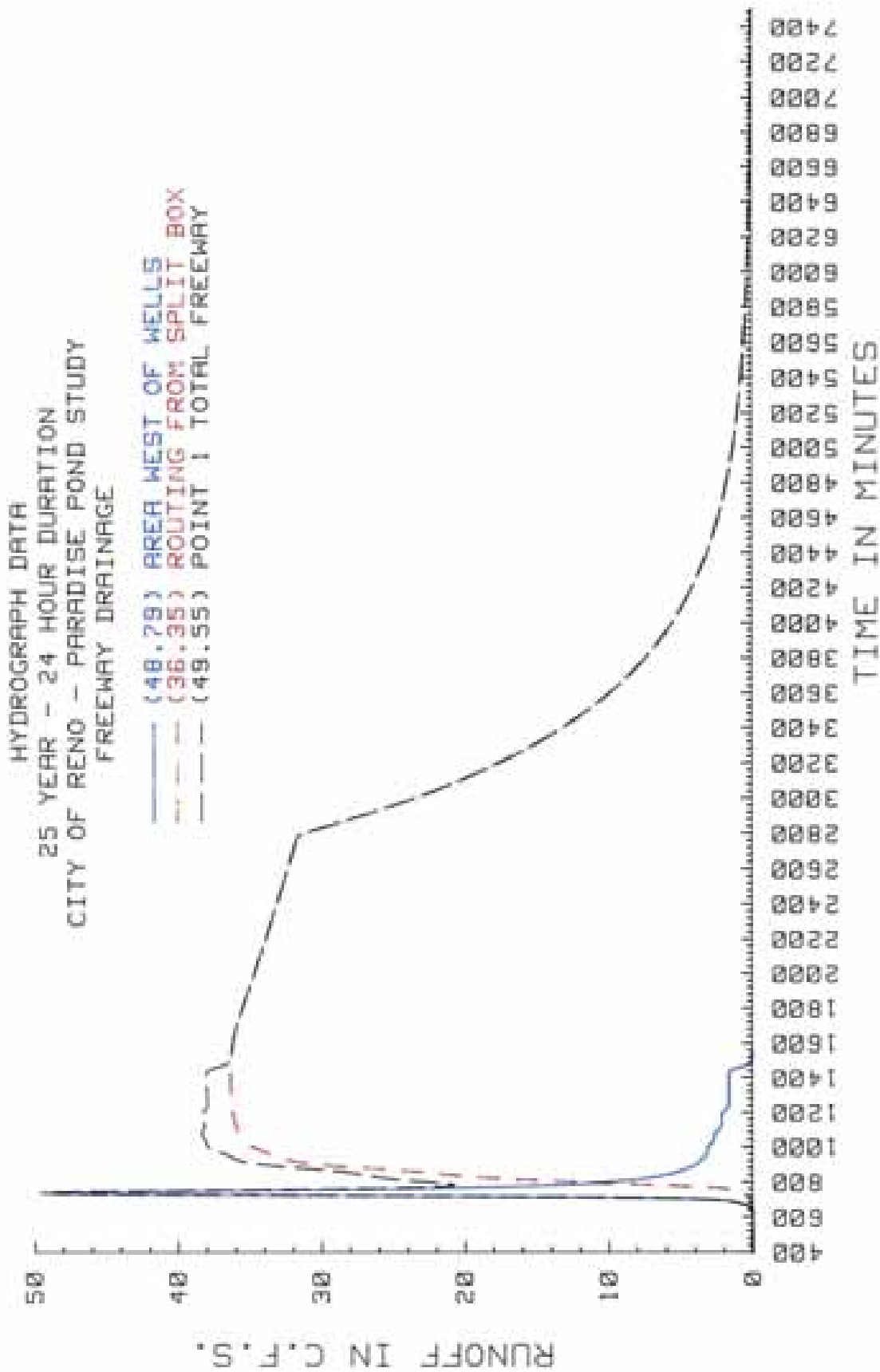


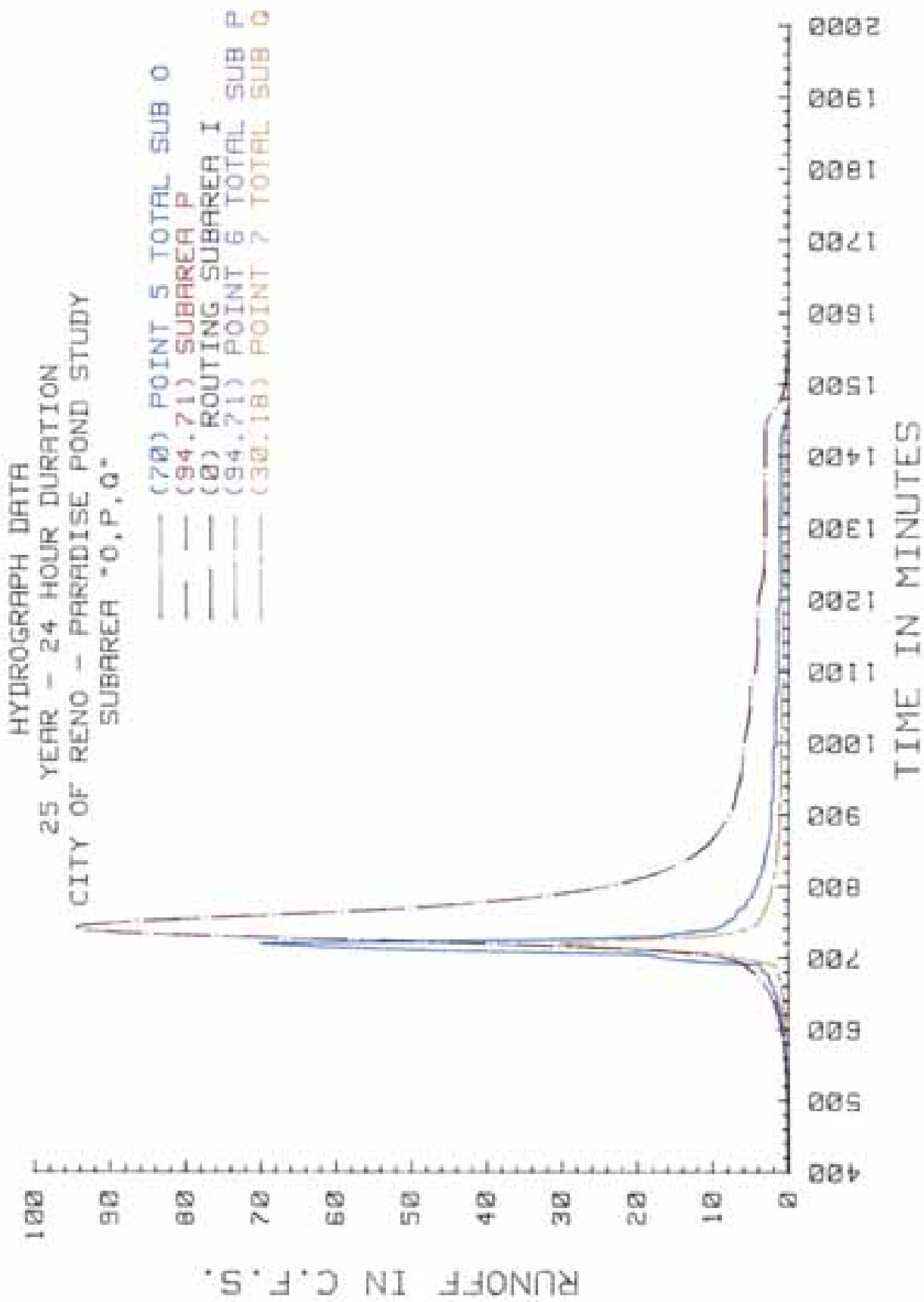
TIME IN MINUTES

HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SPLIT BOX @ WELLS AVE.

— (36.35) POINT 2 TOTAL INFLOW
 — (36.35) POINT 3 TOTAL FREEMWAY
 — (Ø) POINT 4 TOTAL OUTFLOW

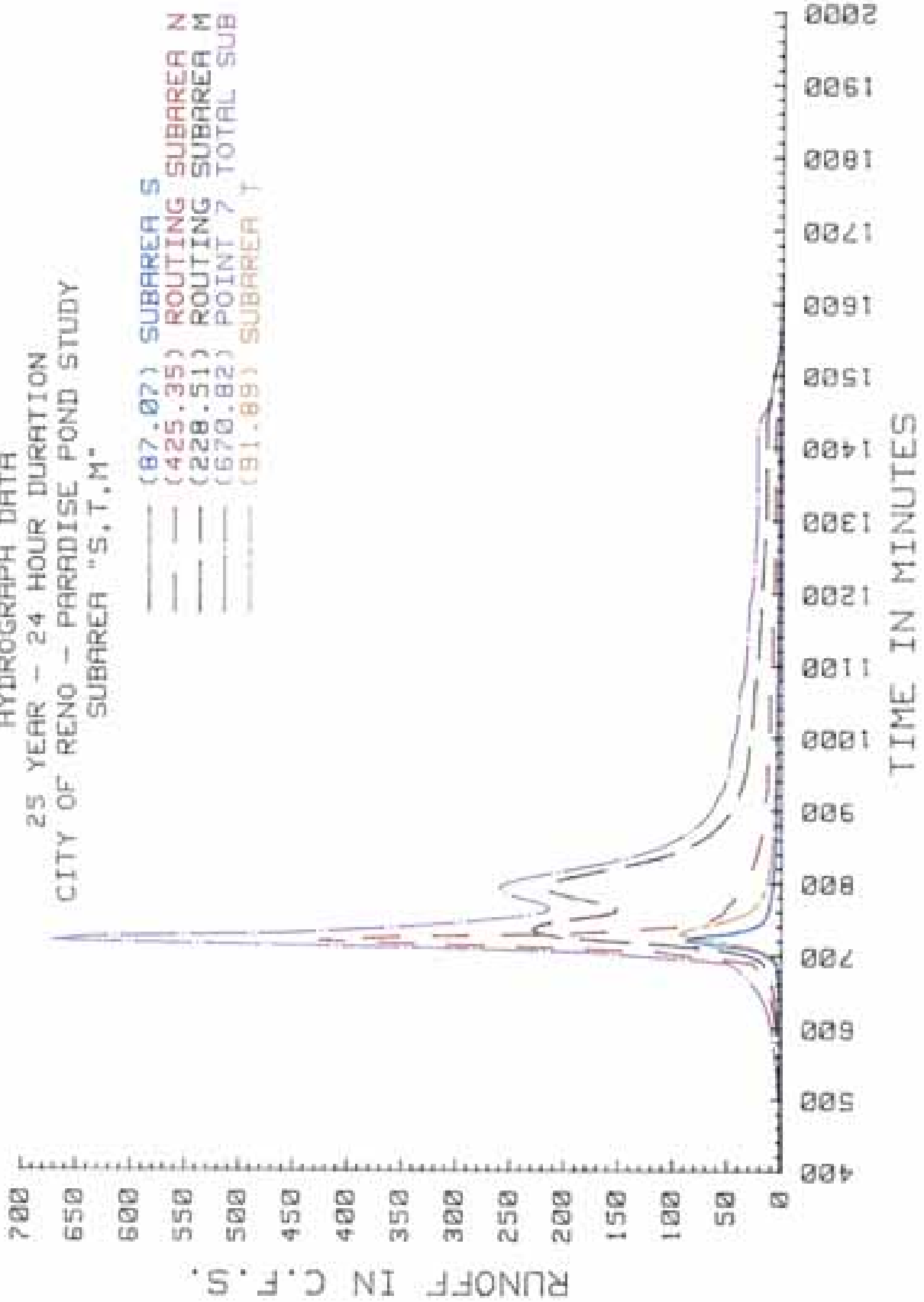






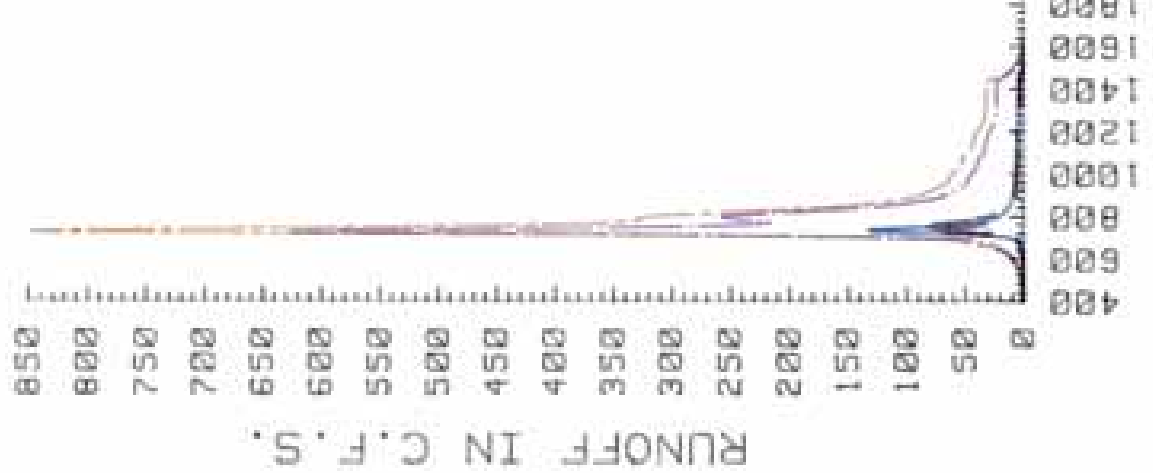
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S.T.M."

---	(87.07)	SUBAREA S
---	(425.35)	ROUTING SUBAREA N
---	(228.51)	ROUTING SUBAREA M
---	(670.82)	POINT 7 TOTAL SUB S
---	(91.89)	SUBAREA T



HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "U"

(131.86) SUBAREA U
 (87.71) ROUTING SUBAREA T
 (90.7) ROUTING SUBAREA P
 (624.77) ROUTING SUBAREA S
 (847.93) POINT 9 TOTAL SUB U

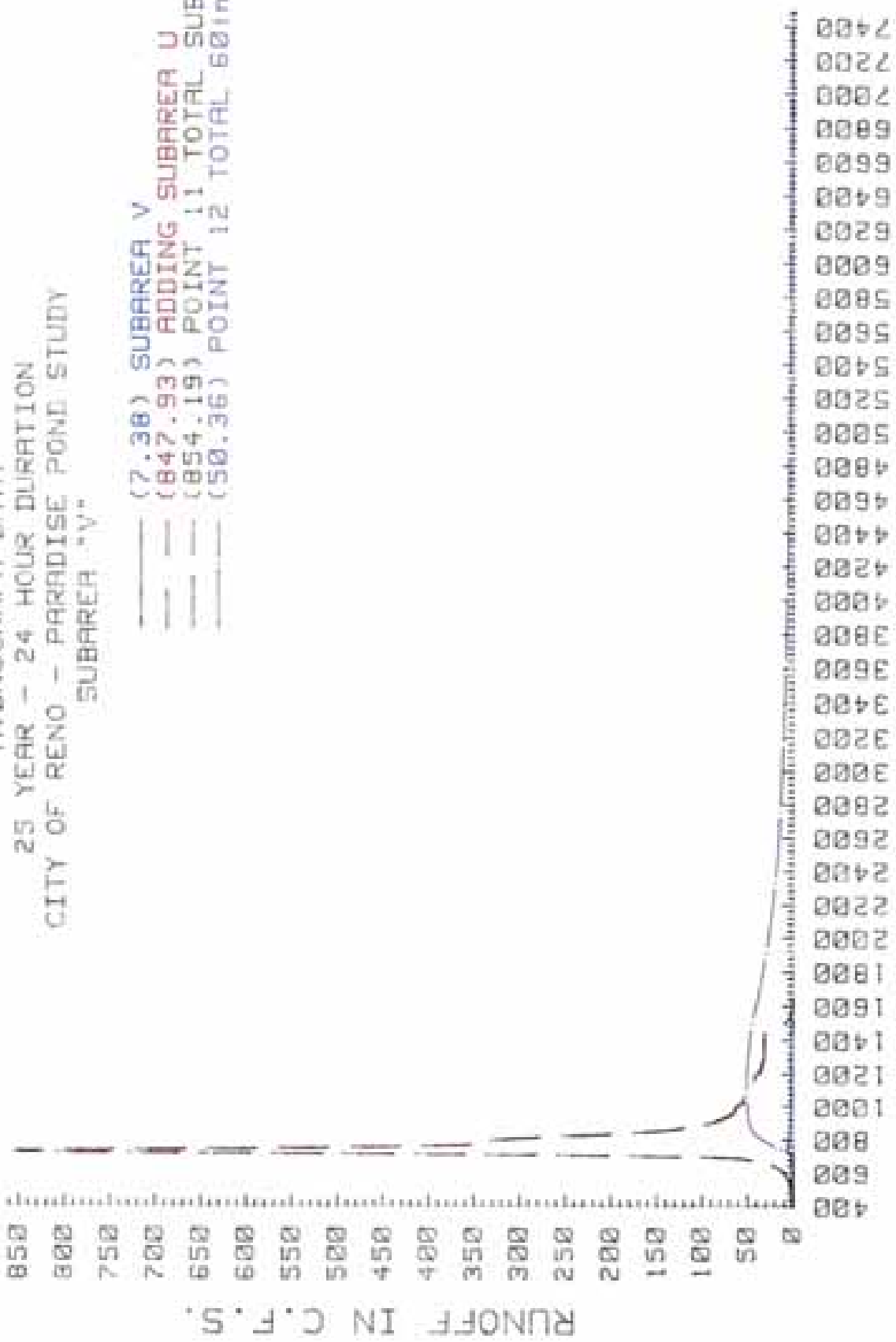


TIME IN MINUTES

HYDROGRAPH DATA

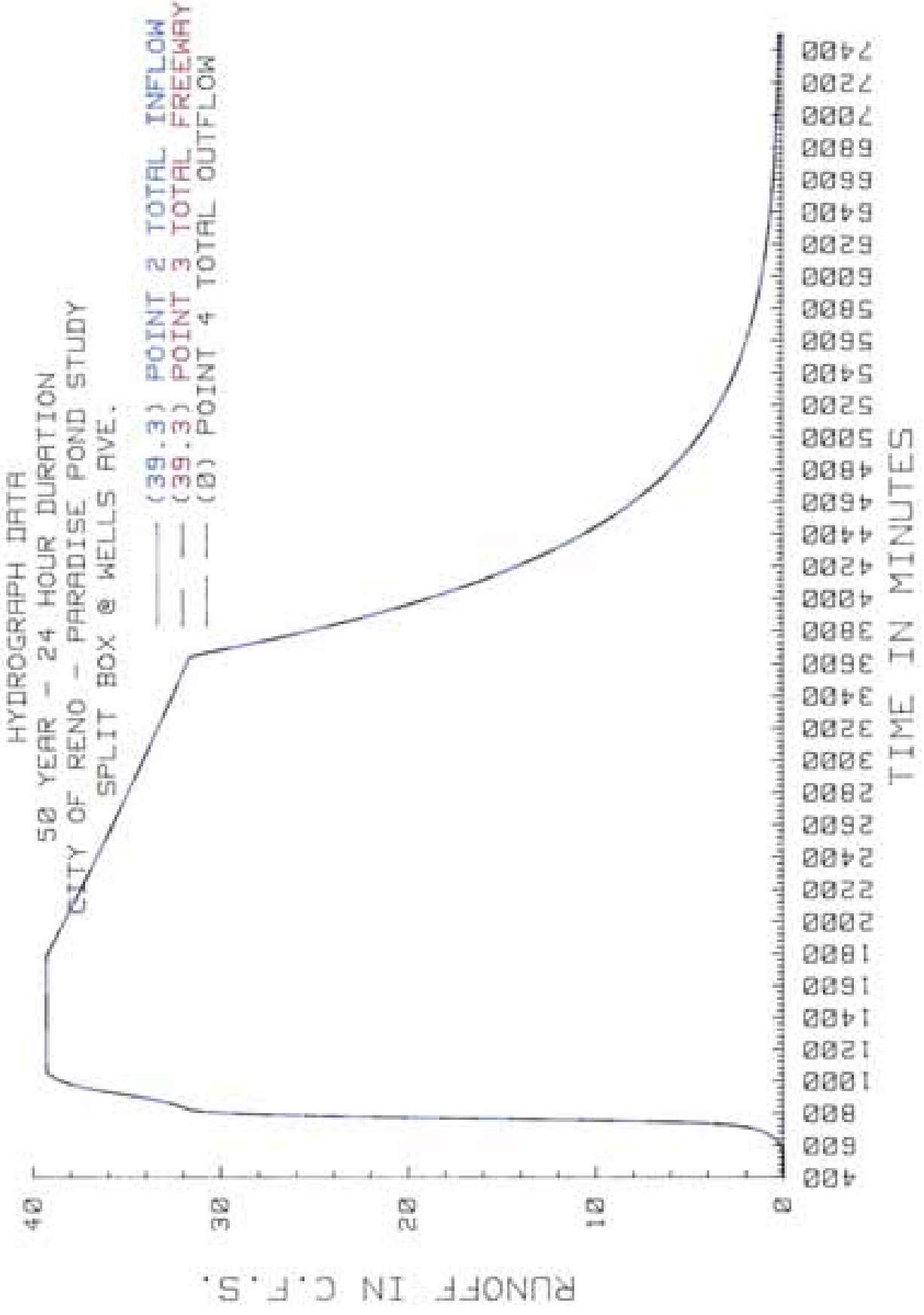
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "V"

- (7.38) SUBAREA V
- (847.93) ADDING SUBAREA U
- (854.19) POINT 11 TOTAL SUB V
- (58.36) POINT 12 TOTAL 60in. OUT



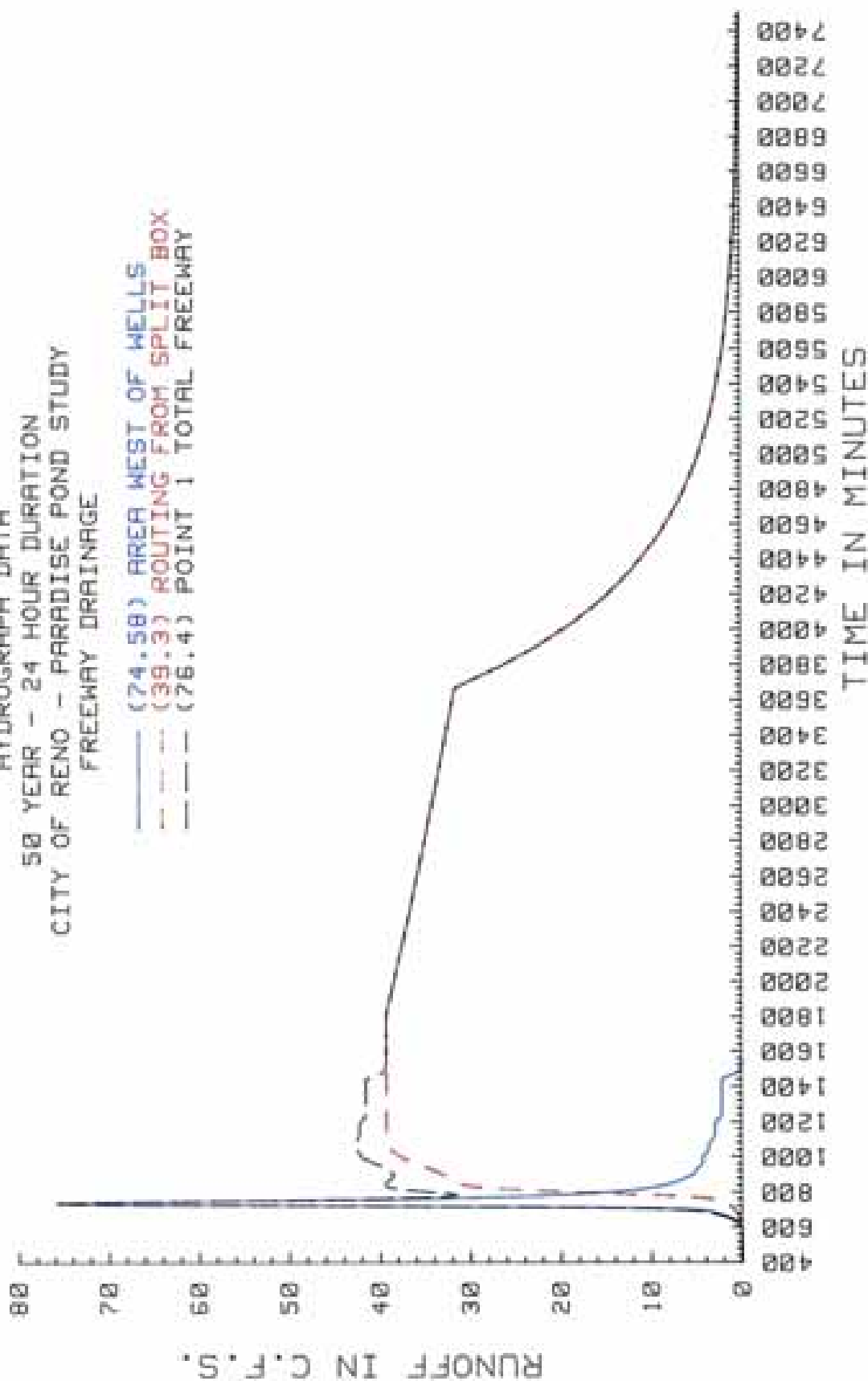
TIME IN MINUTES

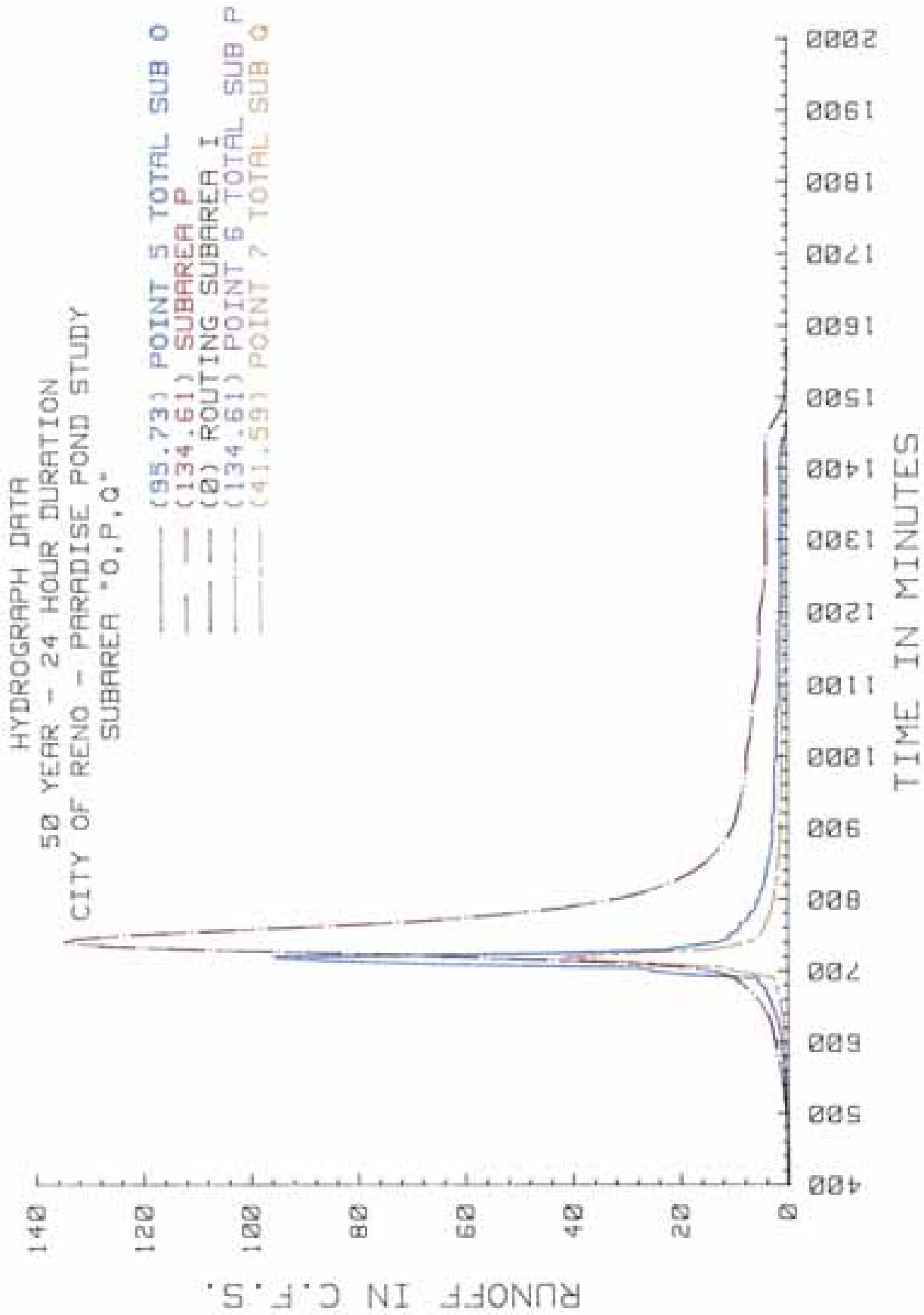
RUNOFF IN C. F. S.



HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
FREEWAY DRAINAGE

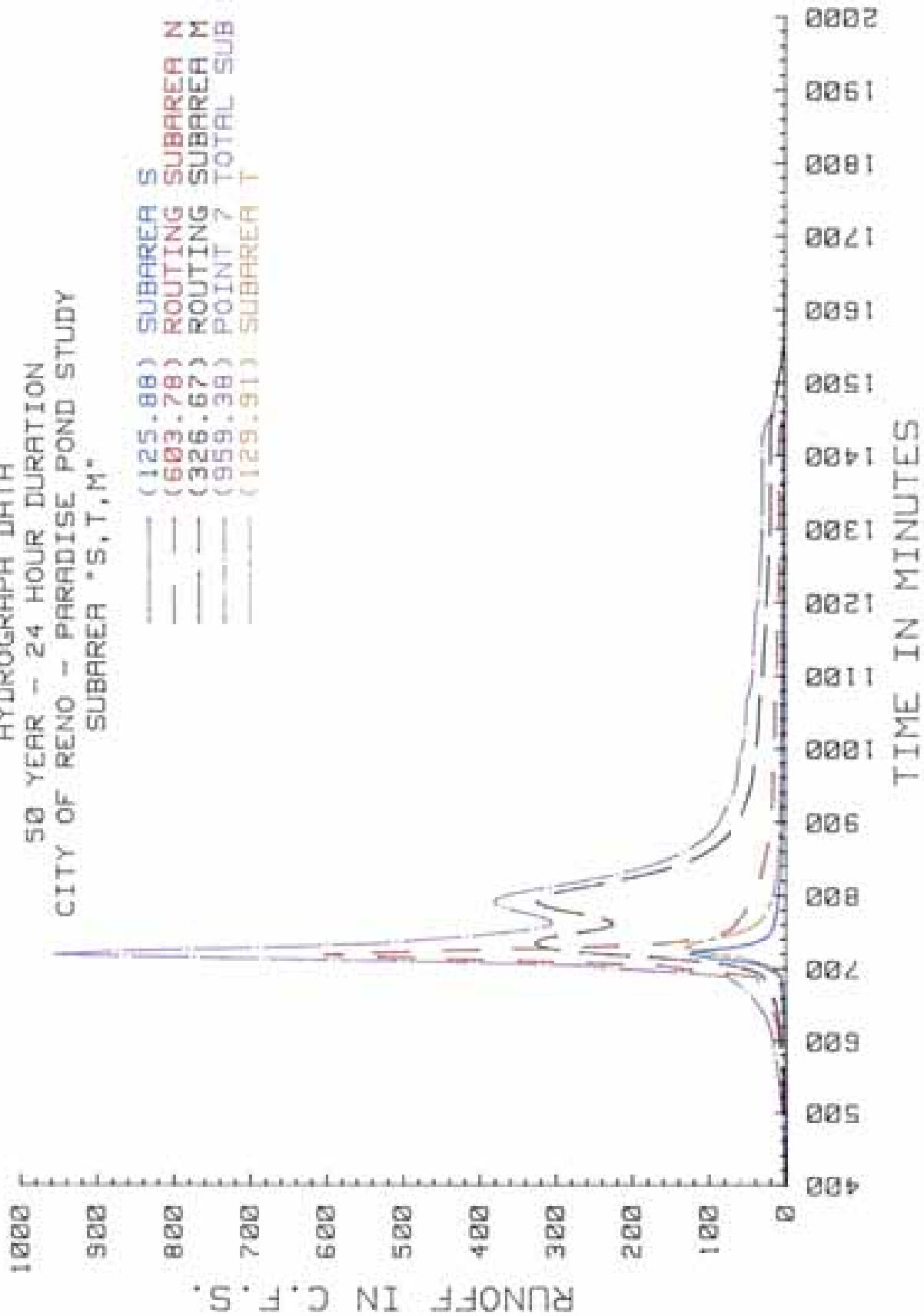
(74.58) AREA WEST OF WELLS
(39.3) ROUTING FROM SPLIT BOX
(76.4) POINT 1 TOTAL FREEWAY





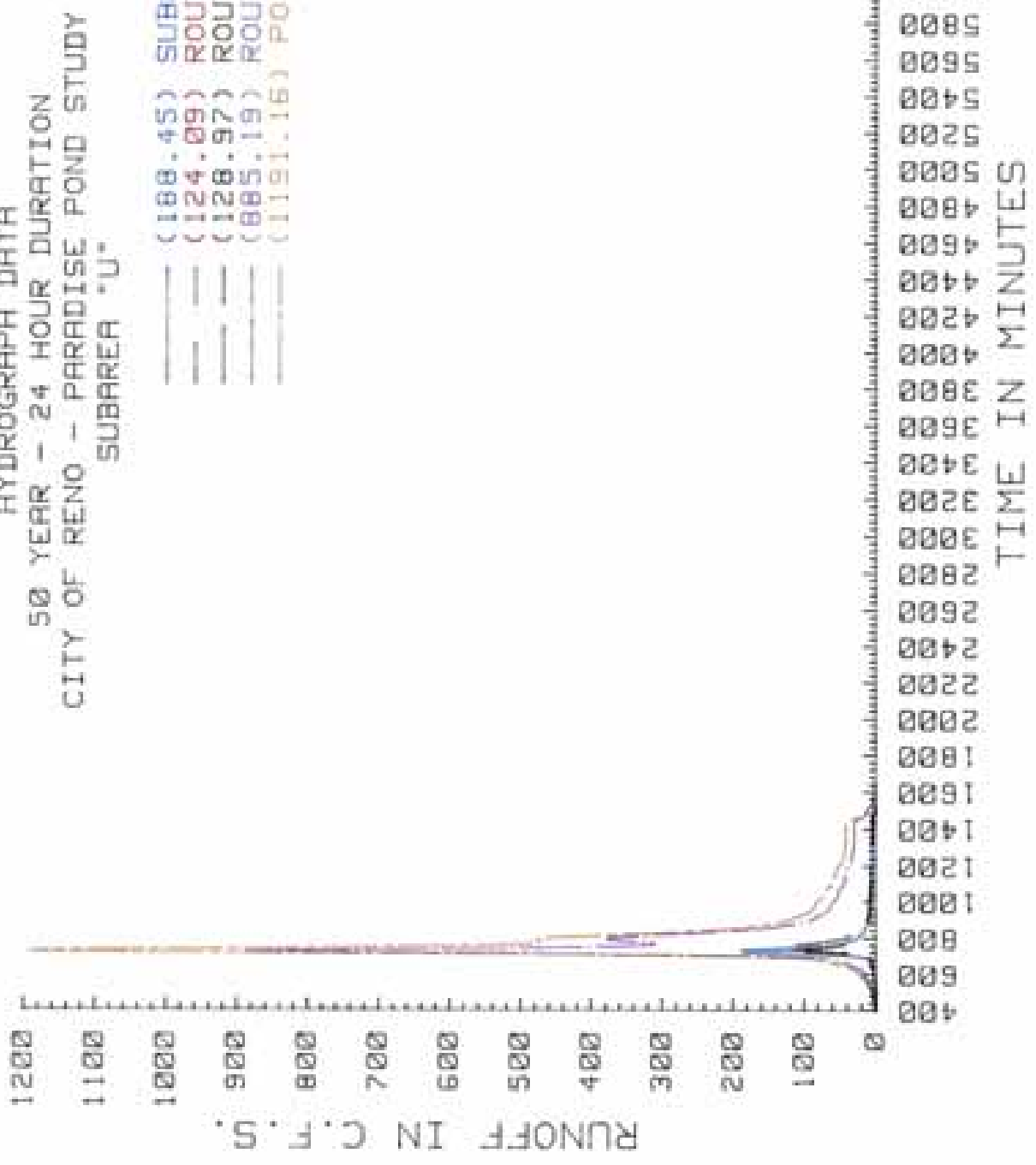
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S, T, M"

-----	(125.88)	SUBAREA S
-----	(603.78)	ROUTING SUBAREA N
-----	(326.67)	ROUTING SUBAREA M
-----	(959.38)	POINT ? TOTAL SUB S
-----	(129.91)	SUBAREA T



HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "U"

--- (188.45) SUBAREA U
 --- (124.09) ROUTING SUBAREA T
 --- (128.97) ROUTING SUBAREA P
 --- (885.19) ROUTING SUBAREA S
 --- (1191.15) POINT 9 TOTAL SUB U

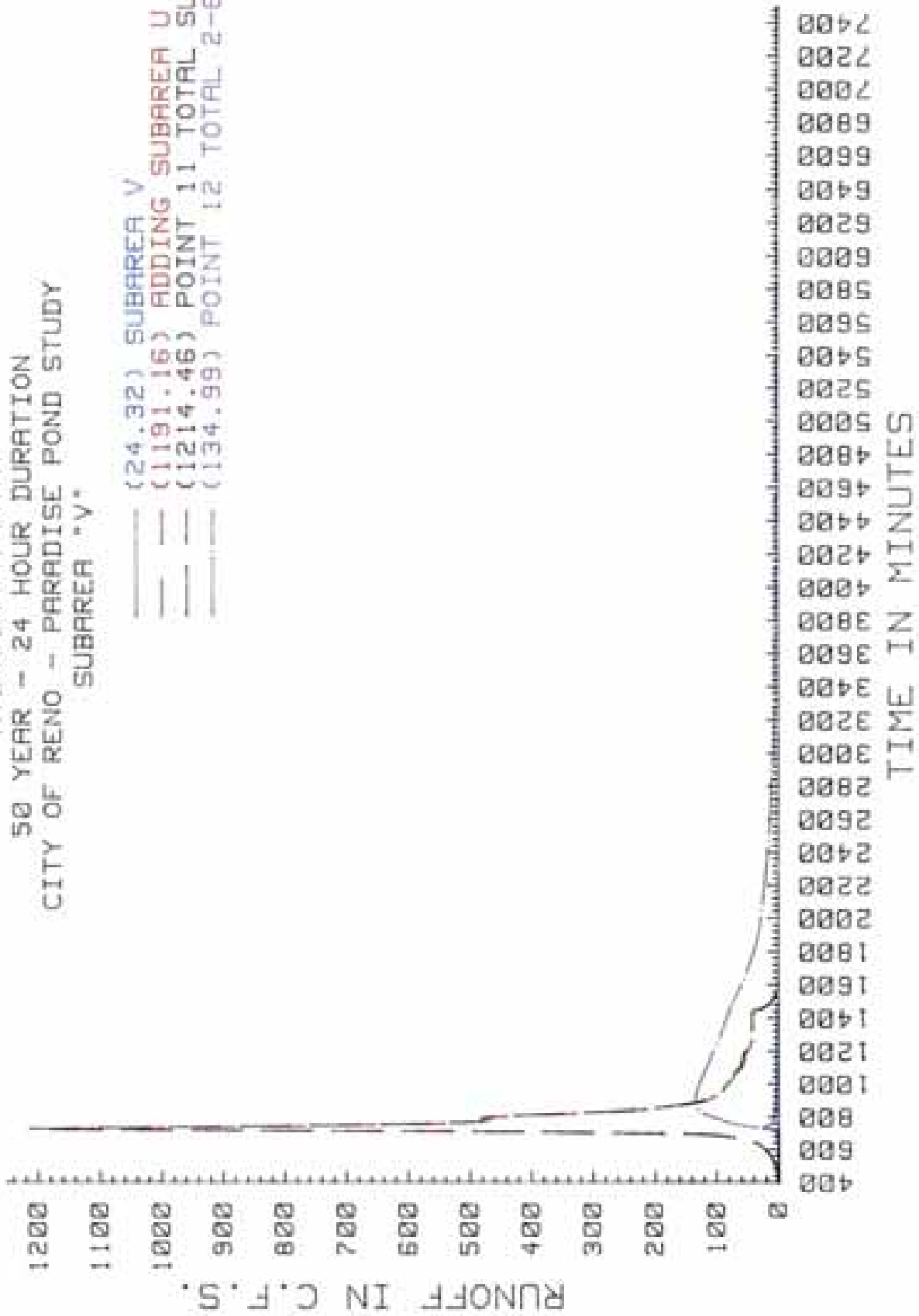


7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
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2400
2200
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1600
1400
1200
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800
600
400

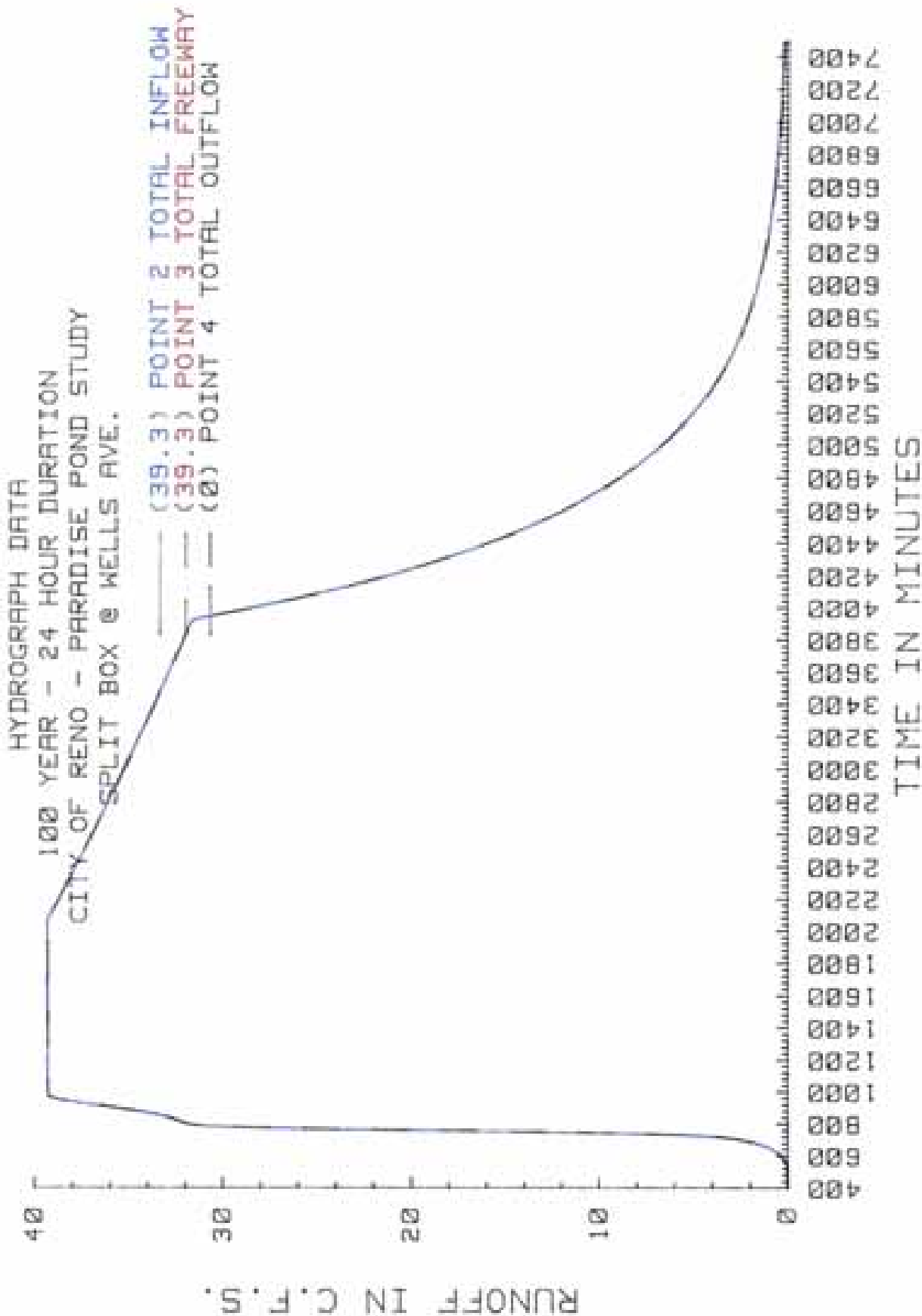
TIME IN MINUTES

HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

--- (24.32) SUBAREA V
 --- (1191.16) ADDING SUBAREA U
 --- (1214.46) POINT 11 TOTAL SUB V
 --- (134.99) POINT 12 TOTAL 2-60In.

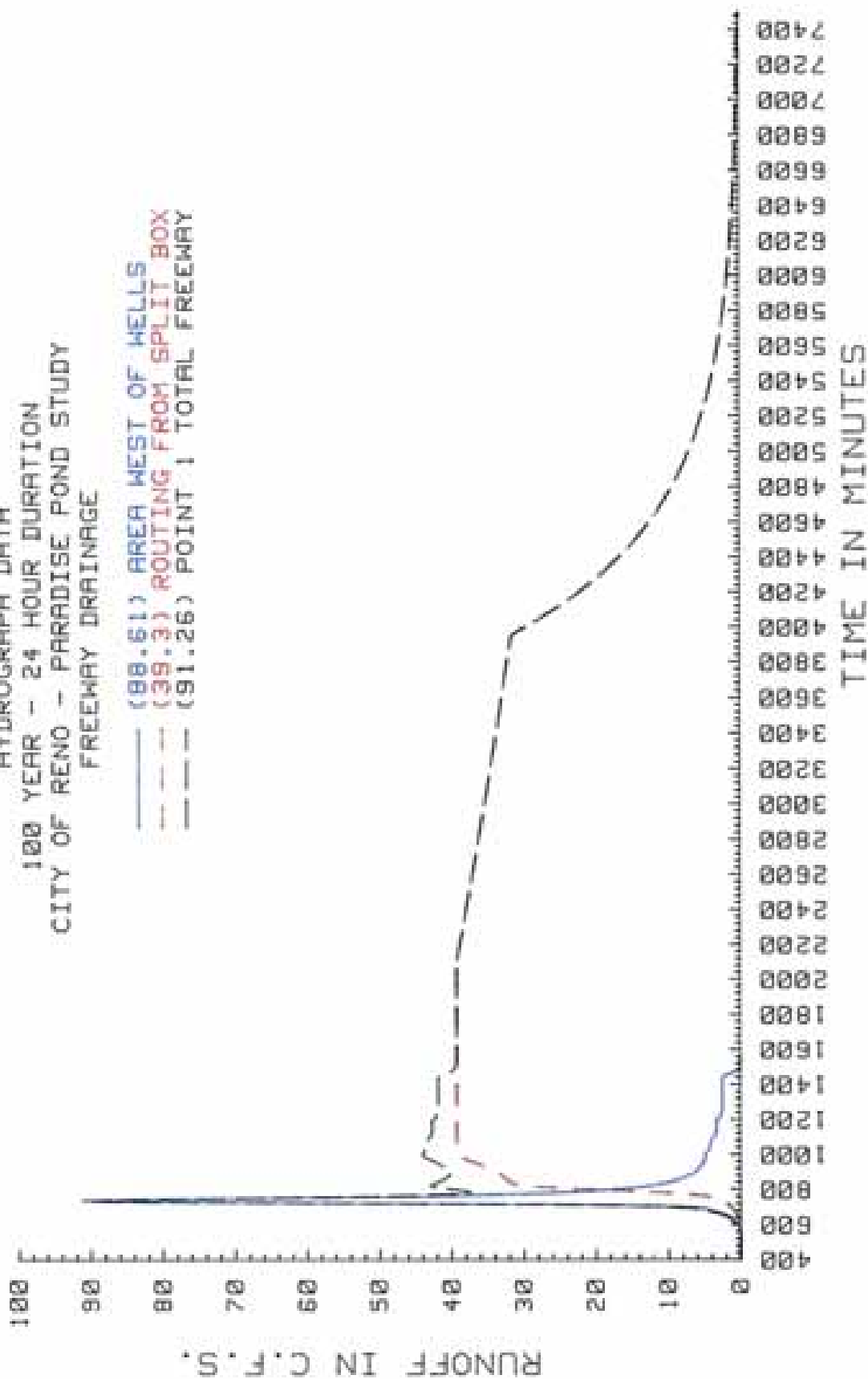


TIME IN MINUTES



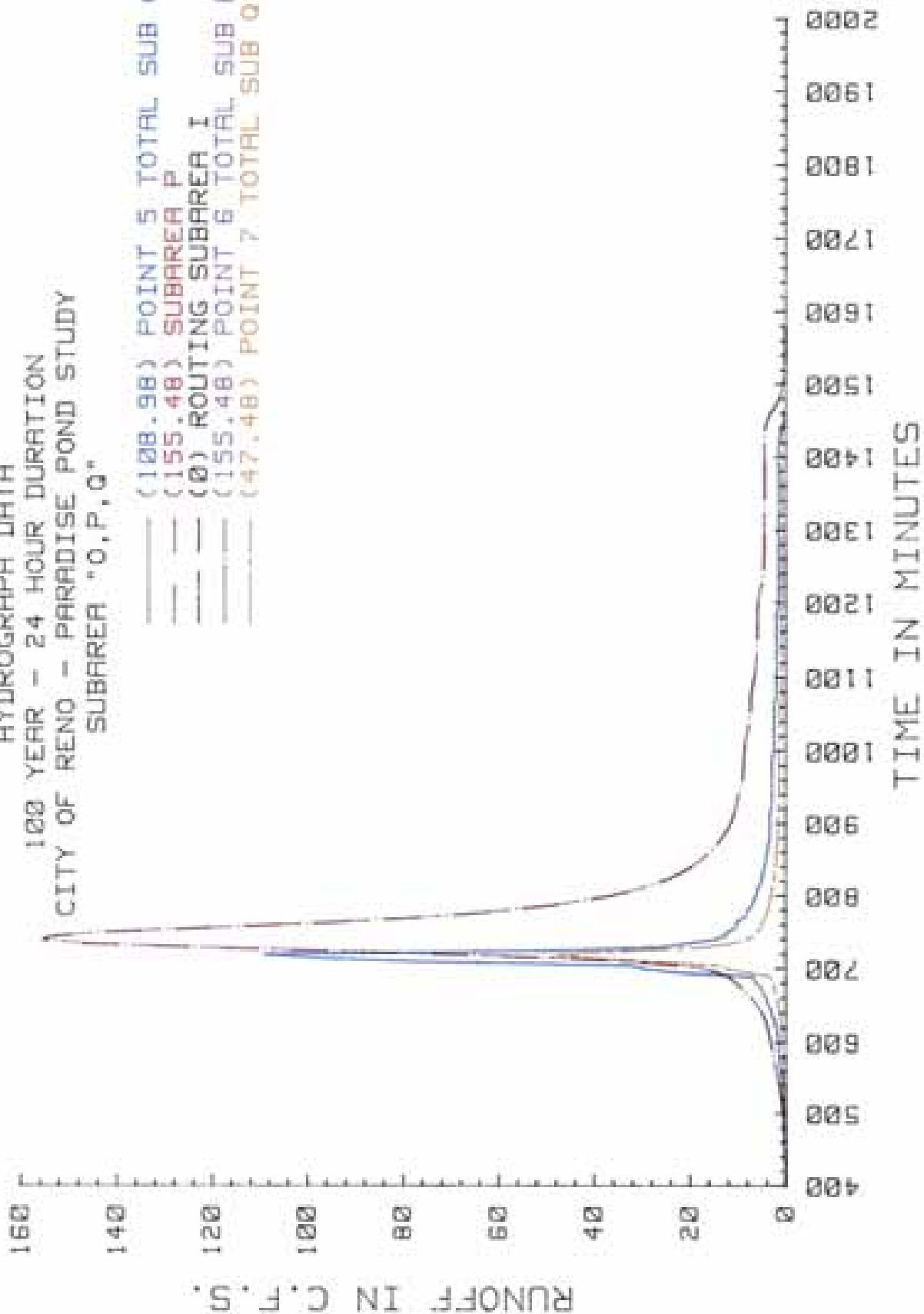
HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

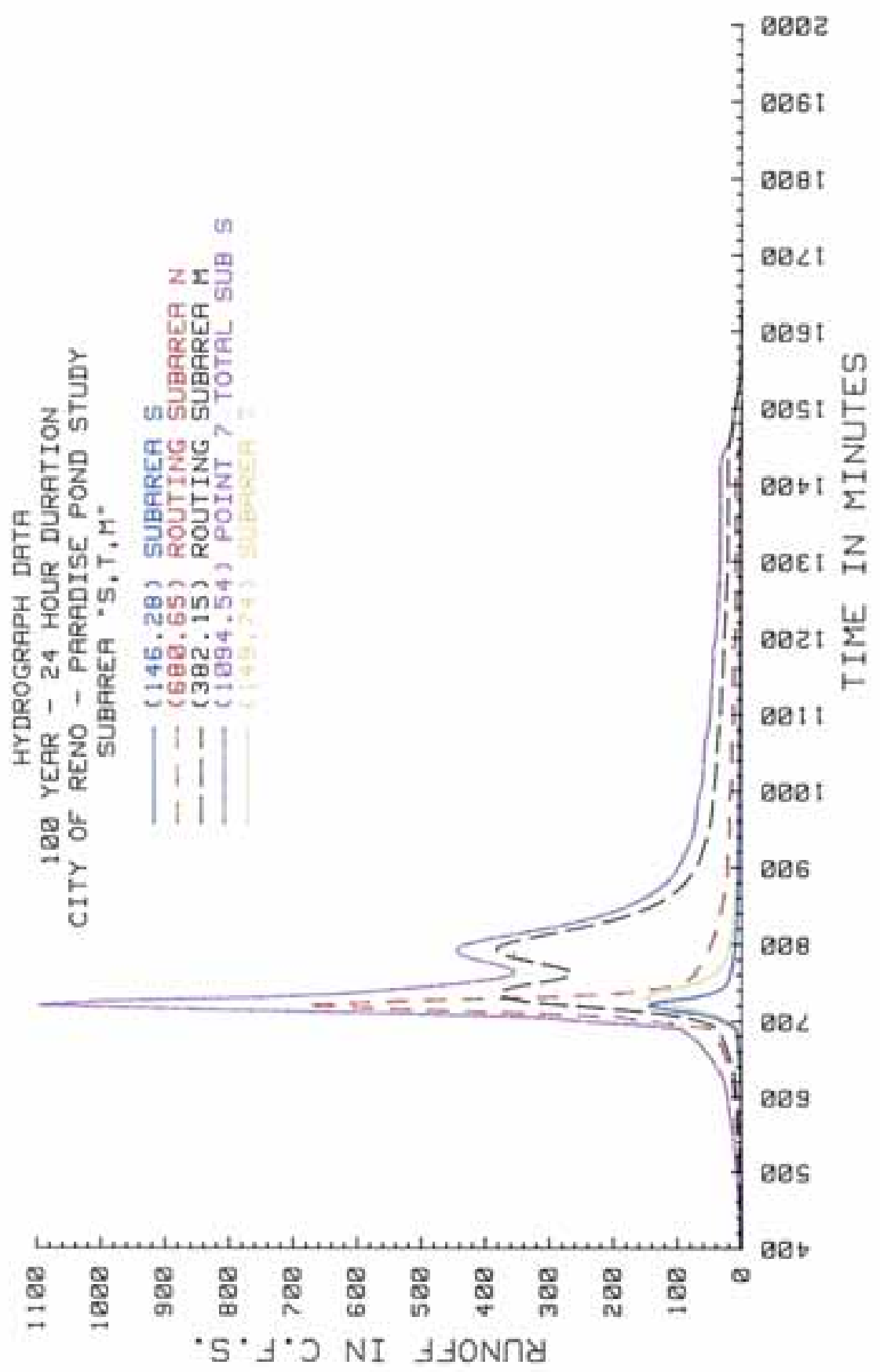
(98.61) AREA WEST OF WELLS
 (39.3) ROUTING FROM SPLIT BOX
 (91.26) POINT 1 TOTAL FREEWAY



HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "O,P,Q"

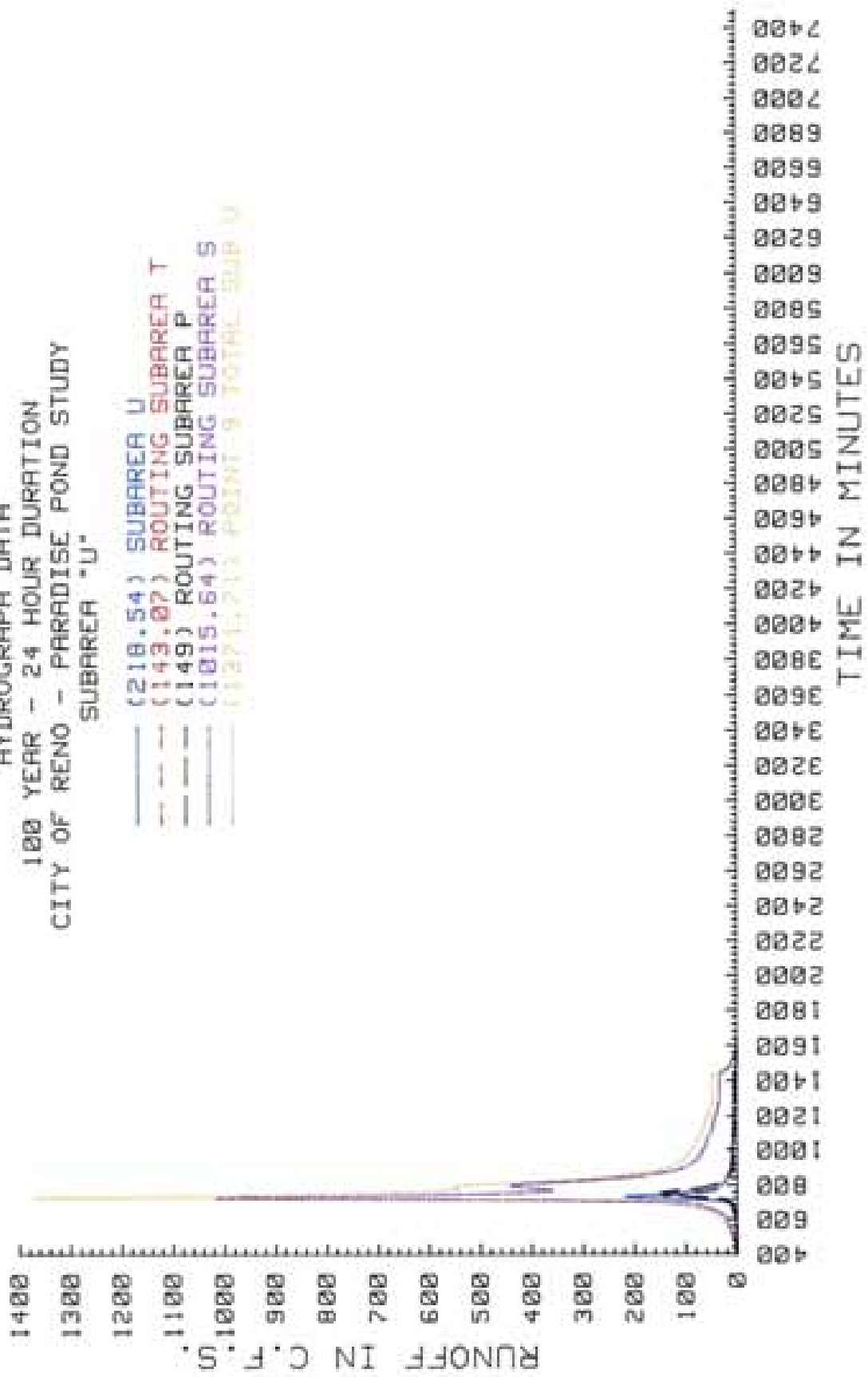
--- (108.98) POINT 5 TOTAL SUB O
--- (155.48) SUBAREA P
--- (0) ROUTING SUBAREA I
--- (155.48) POINT 6 TOTAL SUB P
--- (47.48) POINT 7 TOTAL SUB Q





HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "U"

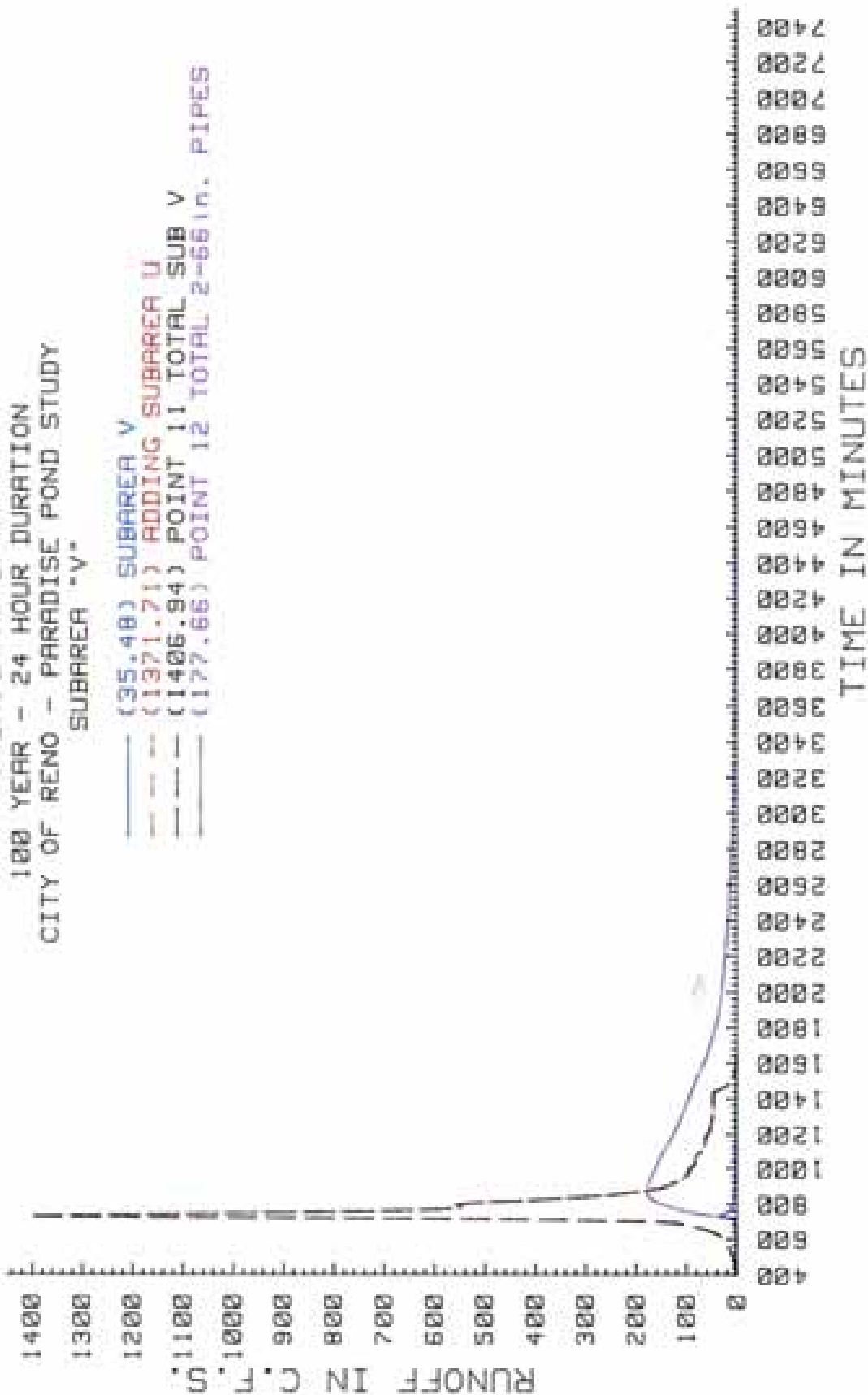
- (218.54) SUBAREA U
- - - (143.07) ROUTING SUBAREA T
- - - (149) ROUTING SUBAREA P
- (1015.64) ROUTING SUBAREA S
- (13715.21) POINT-9 TOTAL SUB U



TIME IN MINUTES

HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

- (35.48) SUBAREA V
- - - (1371.71) ADDING SUBAREA U
- - - (1486.94) POINT 11 TOTAL SUB V
- (177.66) POINT 12 TOTAL 2-55 IN. PIPES



Handwritten text, possibly bleed-through from the reverse side of the page, including the word "APPENDIX" and some illegible characters.

APPENDIX D

TABLE D-1

CONDITION NO. 4 WITH 3-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
A	2.75 cfs @ 110 min.	11.20 cfs @ 80 min.	19.68 cfs @ 60 min.	33.80 cfs @ 60 min.
B	3.30 cfs @ 130 min.	13.47 cfs @ 105 min.	22.97 cfs @ 90 min.	38.01 cfs @ 75 min.
C	0.23 cfs @ 155 min.	1.48 cfs @ 75 min.	2.76 cfs @ 55 min.	5.15 cfs @ 50 min.
D	7.82 cfs @ 105 min.	26.45 cfs @ 80 min.	43.31 cfs @ 80 min.	68.04 cfs @ 75 min.
E	14.37 cfs @ 130 min.	47.14 cfs @ 105 min.	75.56 cfs @ 100 min.	116.72 cfs @ 95 min.
F	3.80 cfs @ 95 min.	14.40 cfs @ 50 min.	24.88 cfs @ 45 min.	44.08 cfs @ 35 min.
G	18.44 cfs @ 215 min.	60.21 cfs @ 200 min.	95.82 cfs @ 195 min.	147.56 cfs @ 190 min.
H	0.38 cfs @ 125 min.	2.03 cfs @ 75 min.	3.76 cfs @ 50 min.	6.72 cfs @ 50 min.
I	18.26 cfs @ 260 min.	59.53 cfs @ 245 min.	23.88 cfs @ 235 min.	145.96 cfs @ 230 min.
J	4.32 cfs @ 75 min.	14.74 cfs @ 50 min.	24.47 cfs @ 40 min.	40.34 cfs @ 40 min.
K	4.02 cfs @ 150 min.	18.67 cfs @ 110 min.	32.43 cfs @ 95 min.	54.50 cfs @ 85 min.
L	7.17 cfs @ 160 min.	27.61 cfs @ 135 min.	46.47 cfs @ 120 min.	75.60 cfs @ 110 min.
M	11.36 cfs @ 80 min.	33.88 cfs @ 135 min.	55.63 cfs @ 130 min.	88.03 cfs @ 125 min.
N	16.55 cfs @ 55 min.	45.86 cfs @ 35 min.	71.60 cfs @ 35 min.	106.18 cfs @ 35 min.

TABLE D-1 - (con't)

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
Evans	16.97 cfs @ 0.5 ac.ft.	52.15 cfs @ 3.0 ac.ft.	79.85 cfs @ 5.6 ac.ft.	117.59 cfs @ 10.1 ac.ft.
Split Box	16.88 cfs @ 320 min.	51.89 cfs @ 310 min.	79.49 cfs @ 310 min.	117.11 cfs @ 310 min.
Freeway	16.88 cfs @ 320 min.	50.00 cfs @ 310 min.	50.00 cfs @ 310 min.	50.00 cfs @ 310 min.
O	2.00 cfs @ 50 min.	6.40 cfs @ 30 min.	10.77 cfs @ 30 min.	16.86 cfs @ 30 min.
P	4.36 cfs @ 105 min.	12.81 cfs @ 80 min.	29.50 cfs @ 310 min.	67.12 cfs @ 310 min.
Q	0.91 cfs @ 55 min.	2.85 cfs @ 35 min.	4.64 cfs @ 35 min.	7.19 cfs @ 30 min.
R	2.88 cfs @ 35 min.	6.41 cfs @ 30 min.	8.37 cfs @ 30 min.	10.95 cfs @ 30 min.
S	28.05 cfs @ 75 min.	77.51 cfs @ 55 min.	116.99 cfs @ 50 min.	173.60 cfs @ 50 min.
T	3.29 cfs @ 85 min.	10.27 cfs @ 60 min.	16.47 cfs @ 55 min.	25.56 cfs @ 55 min.
U	37.96 cfs @ 85 min.	107.36 cfs @ 65 min.	168.11 cfs @ 60 min.	253.90 cfs @ 60 min.
V	37.96 cfs @ 85 min.	107.36 cfs @ 65 min.	168.11 cfs @ 60 min.	253.90 cfs @ 60 min.

Paradise Pond Outlet; One 30-inch pipe under inlet condition:

0.71 cfs @ 85 min. w/7.1 ac.ft.	2.68 cfs @ 65 min. w/20.4 ac.ft.	6.56 cfs @ 60 min. w/35 ac.ft.	12.79 cfs @ 60 min. w/59.7 ac.ft.
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TABLE D-2

CONDITION NO. 4 WITH 6-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
A	4.44 cfs @ 215 min.	19.78 cfs @ 165 min.	32.51 cfs @ 165 min.	64.51 cfs @ 160 min.
B	5.58 cfs @ 235 min.	20.28 cfs @ 180 min.	33.25 cfs @ 180 min.	64.91 cfs @ 175 min.
C	0.53 cfs @ 360 min.	2.70 cfs @ 155 min.	5.56 cfs @ 150 min.	12.52 cfs @ 150 min.
D	14.25 cfs @ 160 min.	40.17 cfs @ 160 min.	60.64 cfs @ 160 min.	109.27 cfs @ 160 min.
E	22.64 cfs @ 215 min.	62.85 cfs @ 200 min.	93.42 cfs @ 200 min.	164.25 cfs @ 195 min.
F	7.48 cfs @ 155 min.	32.16 cfs @ 150 min.	50.44 cfs @ 150 min.	90.93 cfs @ 150 min.
G	30.85 cfs @ 320 min.	81.25 cfs @ 300 min.	118.63 cfs @ 295 min.	203.76 cfs @ 290 min.
H	0.72 cfs @ 245 min.	4.25 cfs @ 150 min.	7.88 cfs @ 150 min.	16.24 cfs @ 150 min.
I	40.22 cfs @ 360 min.	99.19 cfs @ 345 min.	141.93 cfs @ 340 min.	237.75 cfs @ 335 min.
J	9.55 cfs @ 155 min.	29.24 cfs @ 155 min.	42.94 cfs @ 150 min.	75.31 cfs @ 150 min.
K	7.61 cfs @ 265 min.	26.83 cfs @ 185 min.	45.40 cfs @ 180 min.	91.94 cfs @ 180 min.
L	12.91 cfs @ 270 min.	38.44 cfs @ 225 min.	60.12 cfs @ 220 min.	112.34 cfs @ 215 min.
M	20.12 cfs @ 170 min.	50.82 cfs @ 170 min.	72.54 cfs @ 165 min.	126.19 cfs @ 230 min.
N	36.35 cfs @ 150 min.	82.24 cfs @ 150 min.	111.54 cfs @ 150 min.	174.64 cfs @ 150 min.

TABLE D-2 - (con't)

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
Evans	35.98 cfs @ 1.6 ac.ft.	80.69 cfs @ 5.7 ac.ft.	111.20 cfs @ 9.2 ac.ft.	173.98 cfs @ 18.3 ac.ft.
Split Box	35.63 cfs @ 410 min.	80.18 cfs @ 415 min.	110.59 cfs @ 415 min.	173.09 cfs @ 415 min.
Freeway	35.63 cfs @ 410 min.	50.00 cfs @ 415 min.	50.00 cfs @ 415 min.	50.00 cfs @ 415 min.
O	5.15 cfs @ 150 min.	12.08 cfs @ 150 min.	16.96 cfs @ 145 min.	27.45 cfs @ 145 min.
P	7.28 cfs @ 185 min.	31.53 cfs @ 405 min.	62.31 cfs @ 405 min.	125.32 cfs @ 410 min.
Q	2.23 cfs @ 150 min.	5.48 cfs @ 150 min.	7.63 cfs @ 150 min.	12.16 cfs @ 150 min.
R	5.13 cfs @ 150 min.	8.44 cfs @ 150 min.	10.90 cfs @ 150 min.	31.06 cfs @ 145 min.
S	54.18 cfs @ 155 min.	129.91 cfs @ 150 min.	183.30 cfs @ 150 min.	301.32 cfs @ 150 min.
T	6.30 cfs @ 165 min.	17.52 cfs @ 165 min.	25.68 cfs @ 160 min.	43.91 cfs @ 160 min.
U	65.57 cfs @ 170 min.	168.55 cfs @ 160 min.	243.33 cfs @ 160 min.	415.65 cfs @ 160 min.
V	65.57 cfs @ 170 min.	168.55 cfs @ 160 min.	243.33 cfs @ 160 min.	415.65 cfs @ 160 min.
Paradise Pond Outlet; One 30-inch pipe under inlet conditions:				
	1.54 cfs @ 170 min. w/15.3ac.ft.	7.56 cfs @ 160 min. w/38.9ac.ft.	12.80 cfs @ 160 min. w/59.7ac.ft.	19.08 cfs @ 160 min. w/111.6ac.ft.

TABLE D-3

CONDITION NO. 4 WITH 24-HOUR DURATION STORM

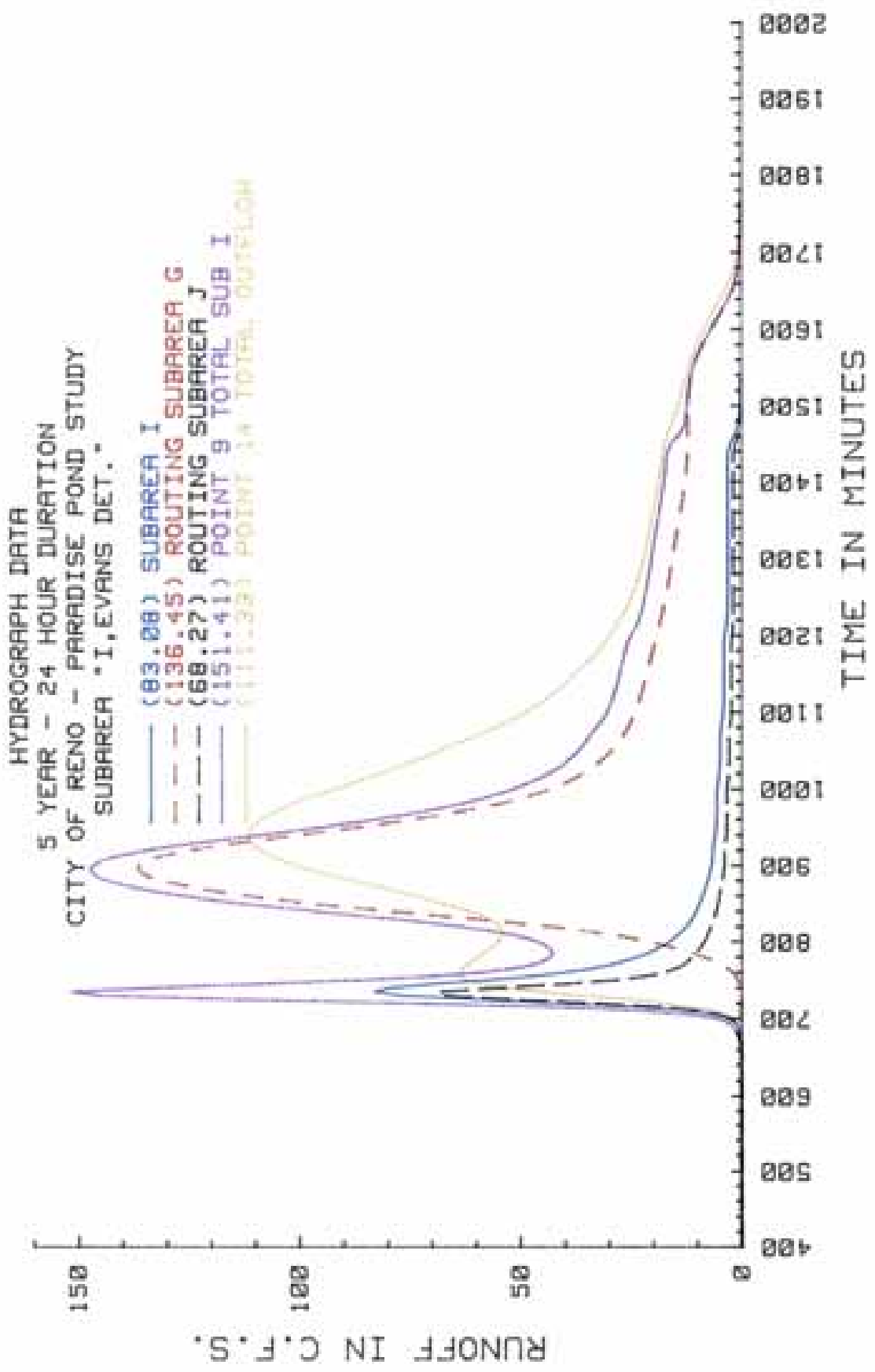
<u>Subarea Totals</u>	<u>5-Year 24-Hour</u>	<u>25-Year 24-Hour</u>	<u>50-Year 24-Hour</u>	<u>100-Year 24-Hour</u>
A	61.48 cfs @ 730 min.	158.82 cf @ 730 min.	237.00 cfs @ 730 min.	278.60 cfs @ 730 min.
B	54.62 cfs @ 745 min.	143.92 cfs @ 740 min.	217.10 cfs @ 740 min.	256.20 cfs @ 740 min.
C	14.36 cfs @ 720 min.	41.29 cfs @ 720 min.	63.42 cfs @ 720 min.	75.30 cfs @ 720 min.
D	104.77 cfs @ 725 min.	241.01 cfs @ 725 min.	348.08 cfs @ 725 min.	404.57 cfs @ 725 min.
E	121.82 cfs @ 760 min.	291.19 cfs @ 755 min.	425.59 cfs @ 755 min.	496.81 cfs @ 755 min.
F	110.52 cfs @ 720 min.	258.26 cfs @ 720 min.	373.59 cfs @ 720 min.	434.25 cfs @ 720 min.
G	139.30 cfs @ 850 min.	326.44 cfs @ 850 min.	474.56 cfs @ 850 min.	552.88 cfs @ 850 min.
H	19.74 cfs @ 720 min.	52.44 cfs @ 720 min.	78.85 cfs @ 720 min.	92.93 cfs @ 720 min.
I	151.41 cfs @ 735 min.	351.63 cfs @ 735 min.	512.01 cfs @ 735 min.	598.45 cfs @ 730 min.
J	80.99 cfs @ 725 min.	176.79 cfs @ 720 min.	253.47 cfs @ 720 min.	293.67 cfs @ 720 min.
K	75.30 cfs @ 745 min.	209.81 cfs @ 745 min.	320.32 cfs @ 745 min.	379.60 cfs @ 745 min.
L	82.34 cfs @ 730 min.	211.65 cfs @ 780 min.	319.37 cfs @ 780 min.	377.00 cfs @ 780 min.
M	106.17 cfs @ 735 min.	228.51 cfs @ 735 min.	326.67 cfs @ 735 min.	382.15 cfs @ 795 min.
N	201.78 cfs @ 720 min.	425.35 cfs @ 720 min.	603.78 cfs @ 720 min.	680.65 cfs @ 720 min.

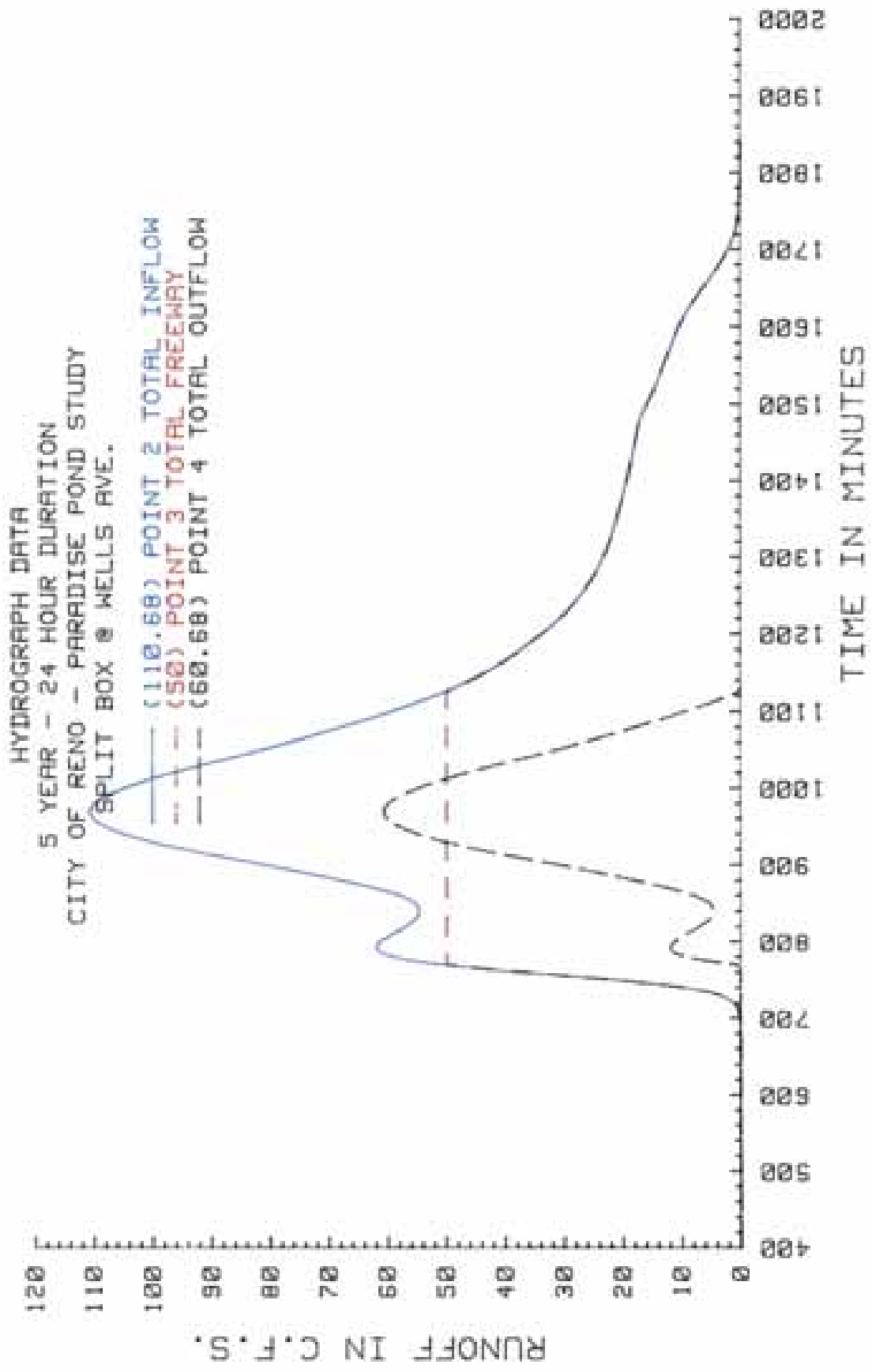
TABLE D-3 - (con't)

<u>Subarea Totals</u>	<u>5-Year 24-Hour</u>	<u>25-Year 24-Hour</u>	<u>50-Year 24-Hour</u>	<u>100-Year 24-Hour</u>
Evans	111.33 cfs @ 735 min.	234.09 cfs @ 735 min.	396.26 cfs @ 735 min.	404.61 cfs @ 730 min.
Split Box	110.68 cfs @ 970 min.	231.80 cfs @ 970 min.	395.52 cfs @ 960 min.	404.27 cfs @ 970 min.
Freeway	53.45 cfs @ 820 min.	60.72 cfs @ 790 min.	93.12 cfs @ 740 min.	112.07 cfs @ 740 min.
O	35.20 cfs @ 720 min.	70.00 cfs @ 720 min.	95.73 cfs @ 720 min.	108.98 cfs @ 720 min.
P	63.98 cfs @ 970 min.	187.69 cfs @ 970 min.	353.48 cfs @ 960 min.	363.11 cfs @ 965 min.
Q	14.88 cfs @ 720 min.	30.18 cfs @ 720 min.	41.59 cfs @ 720 min.	47.48 cfs @ 720 min.
R	37.09 cfs @ 720 min.	68.34 cfs @ 720 min.	⁷¹ 41.59 cfs @ 720 min.	¹⁰² 47.48 cfs @ 720 min.
S	311.01 cfs @ 720 min.	670.82 cfs @ 720 min.	959.38 cfs @ 720 min.	1094.54 cfs @ 720 min.
T	42.17 cfs @ 730 min.	91.89 cfs @ 730 min.	129.91 cfs @ 730 min.	149.74 cfs @ 730 min.
U	385.60 cfs @ 730 min.	847.93 cfs @ 730 min.	1191.16 cfs @ 730 min.	1371.71 cfs @ 730 min.
V	385.60 cfs @ 730 min.	854.19 cfs @ 730 min.	1214.46 cfs @ 730 min.	1406.94 cfs @ 730 min.

Paradise Pond Outlet; the minimum size pipe under inlet condition to keep from overflowing Paradise Pond:

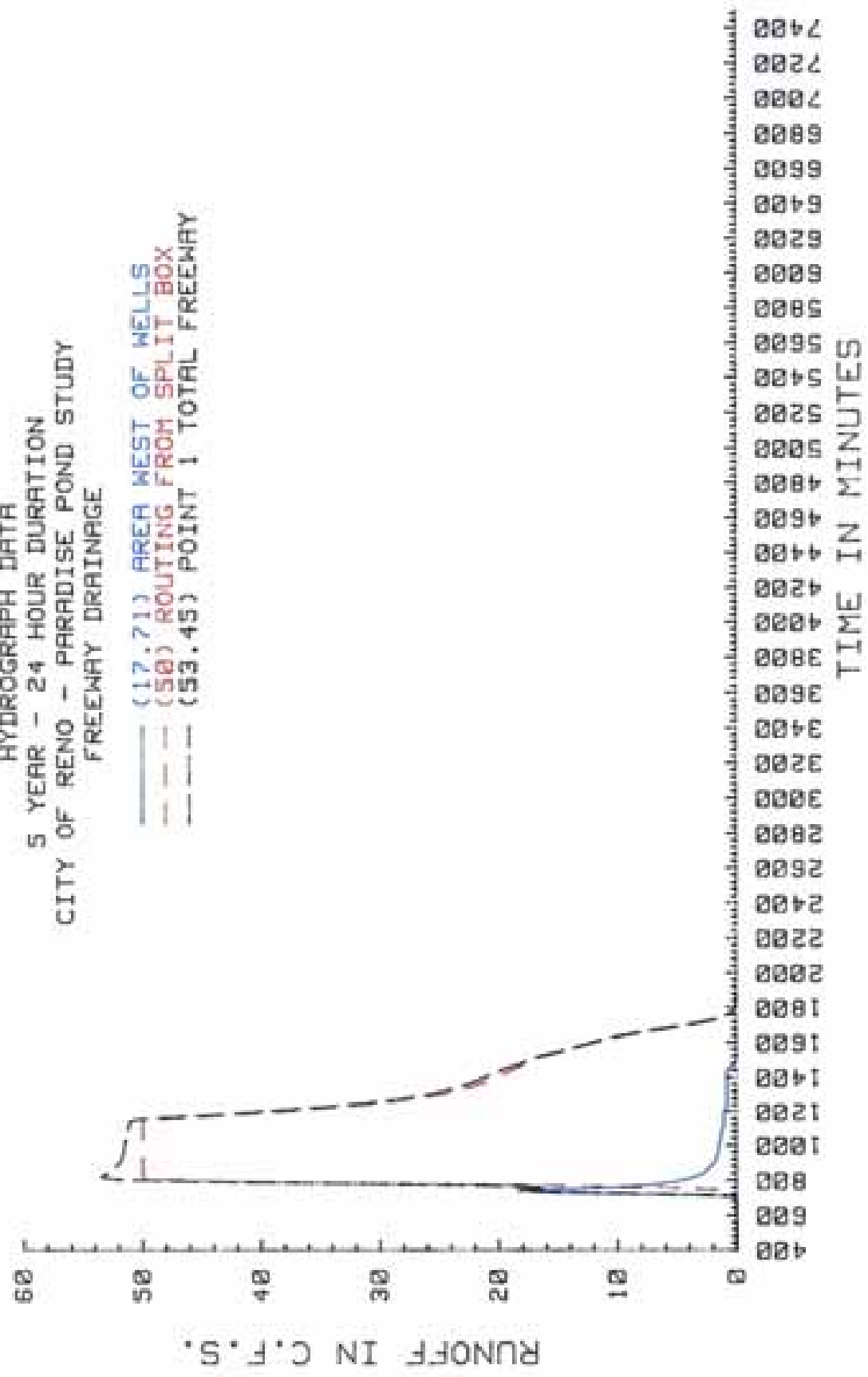
30" pipe	2-60" pipe	3-66" pipes	4-66" pipes
13.40 cfs	141.14 cfs	296.99 cfs	391.61 cfs
@ 730 min.	@ 730 min.	@ 730 min.	@ 730 min.
w/62.1 ac.ft.	w/113.8ac.ft.	w/135.7 ac.ft.	w/134.5 ac.ft.

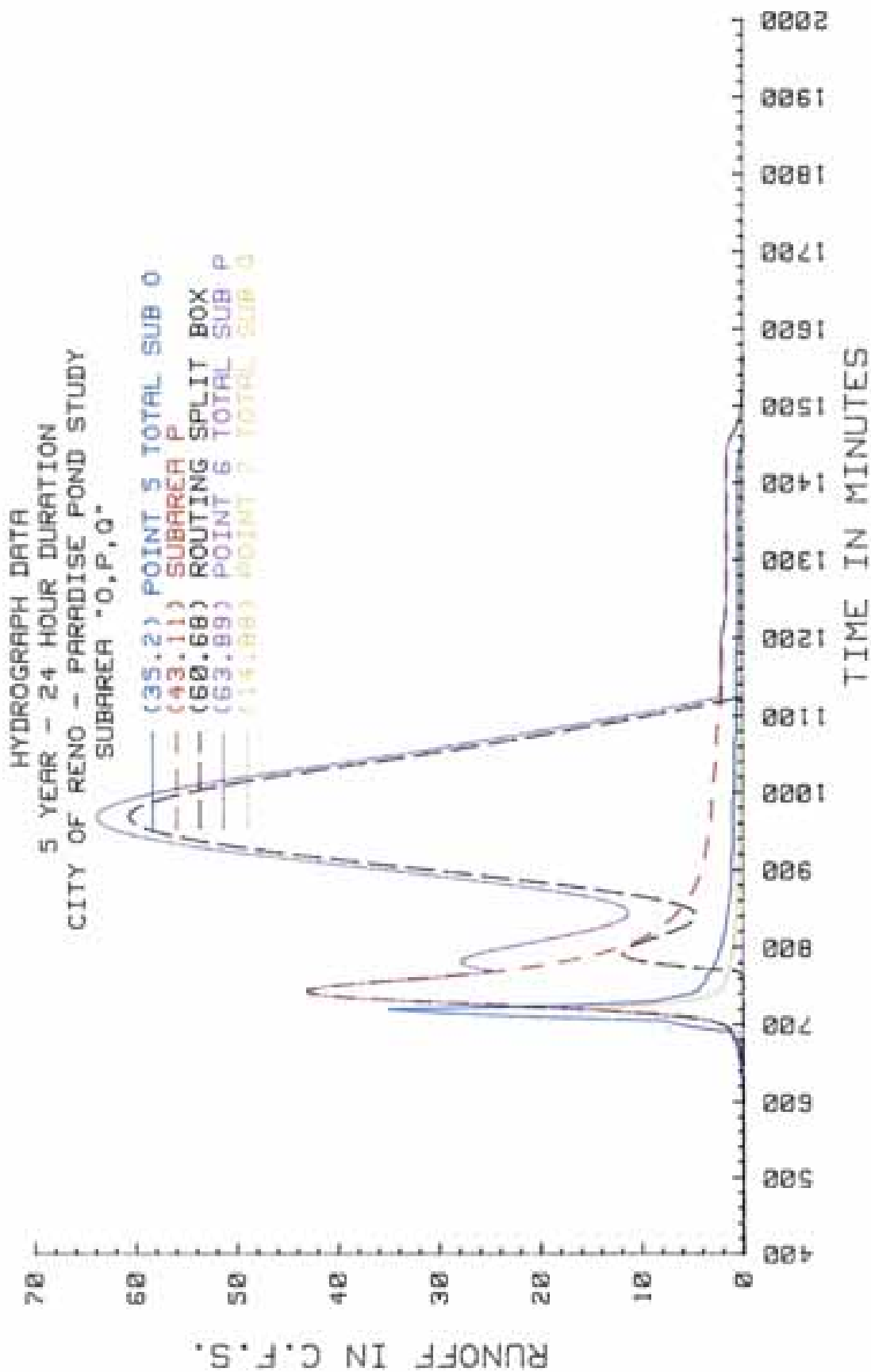




HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
FREEWAY DRAINAGE

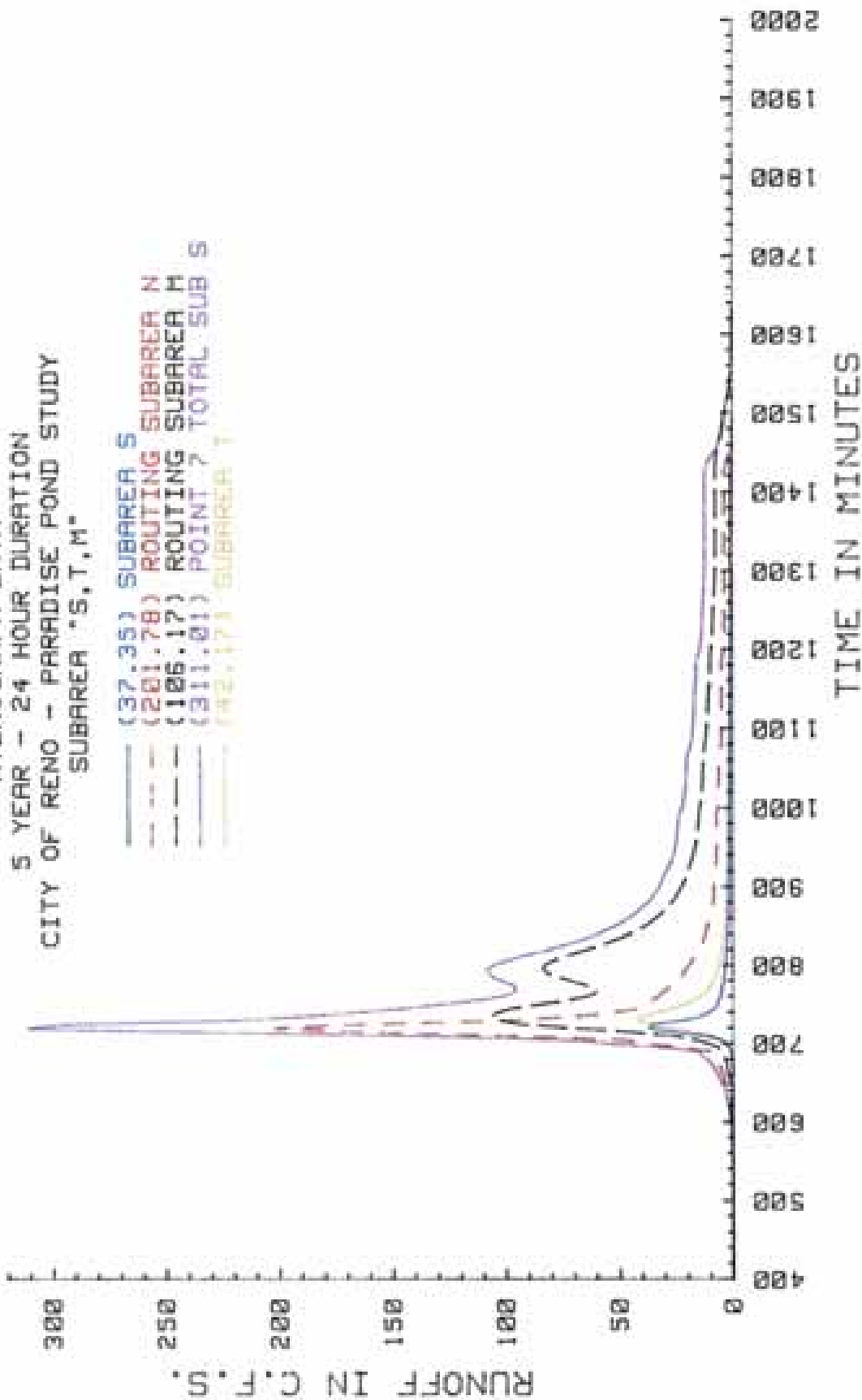
— (17.71) AREA WEST OF WELLS
- - - (50) ROUTING FROM SPLIT BOX
- - - (53.45) POINT 1 TOTAL FREEWAY





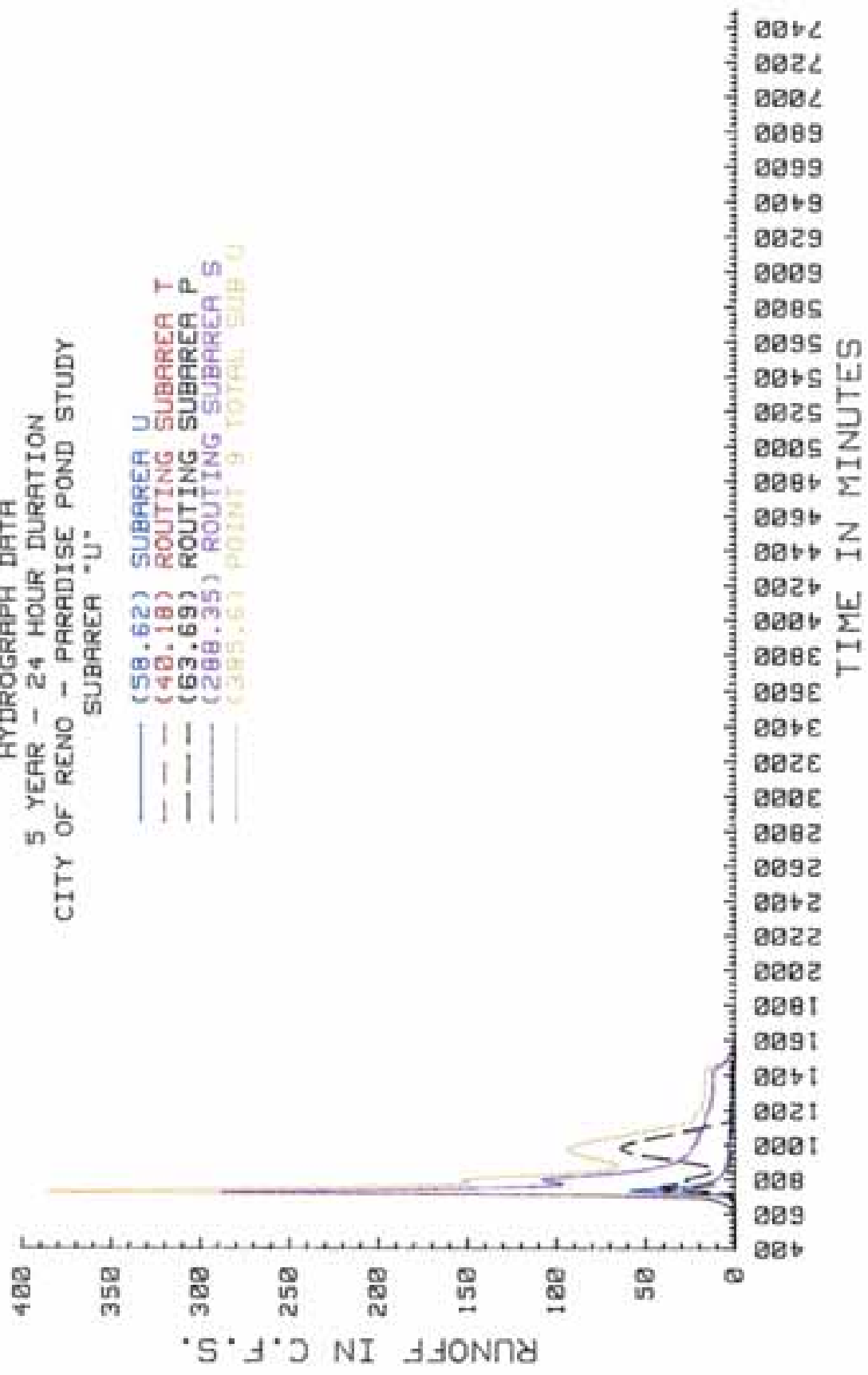
HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S,T,M"

- (37.35) SUBAREA S
- - - (201.78) ROUTING SUBAREA N
- - - (106.17) ROUTING SUBAREA H
- - - (311.01) POINT ?
- (42.17) SUBAREA T



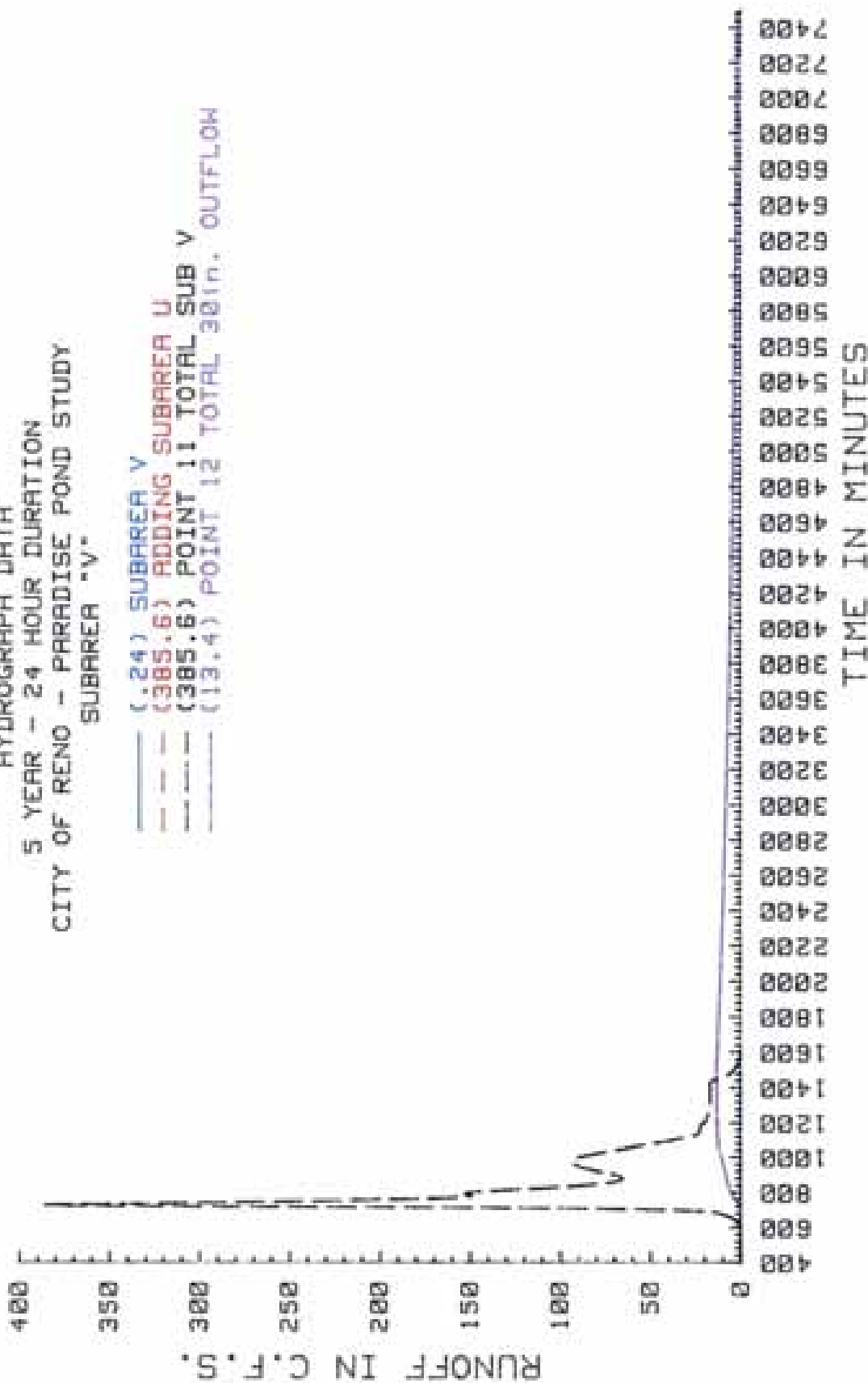
HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "U"

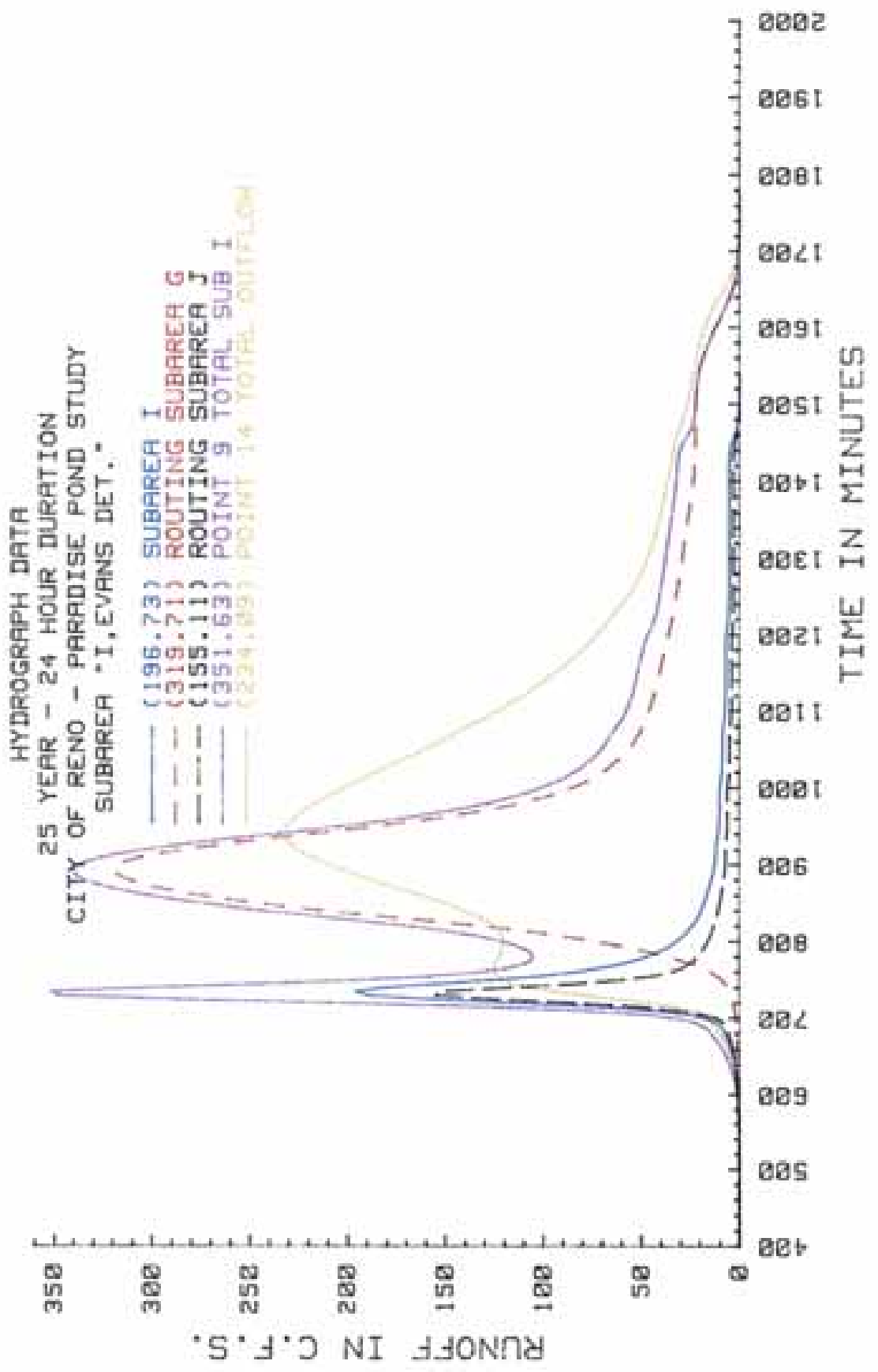
- (58.62) SUBAREA U
- - (40.18) ROUTING SUBAREA T
- - - (63.69) ROUTING SUBAREA P
- (288.35) ROUTING SUBAREA S
- (385.61) POINT 9 TOTAL SUB U

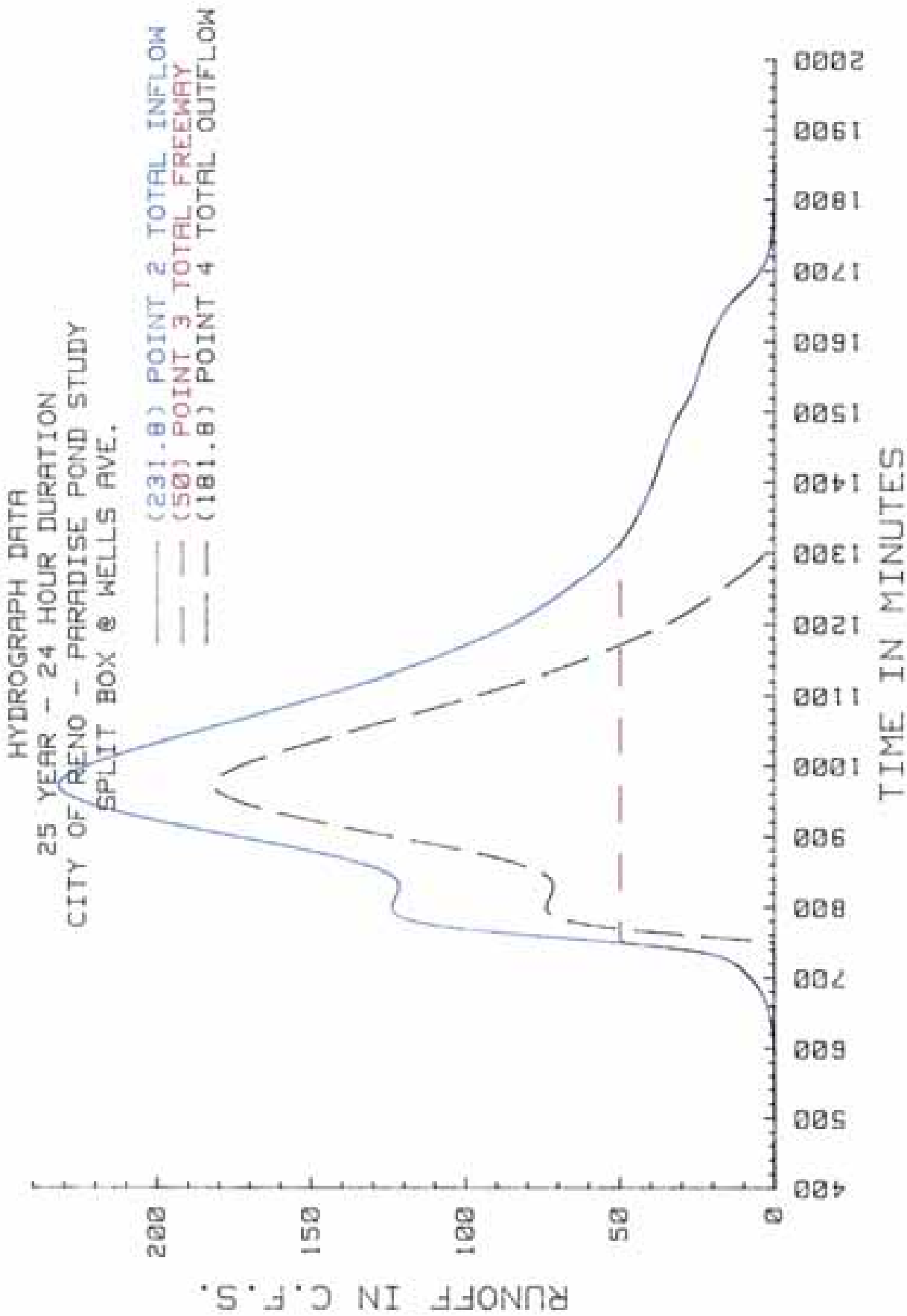


HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

(.24) SUBAREA V
 (385.6) ADDING SUBAREA U
 (385.6) POINT 11 TOTAL SUB V
 (13.4) POINT 12 TOTAL 30in. OUTFLOW

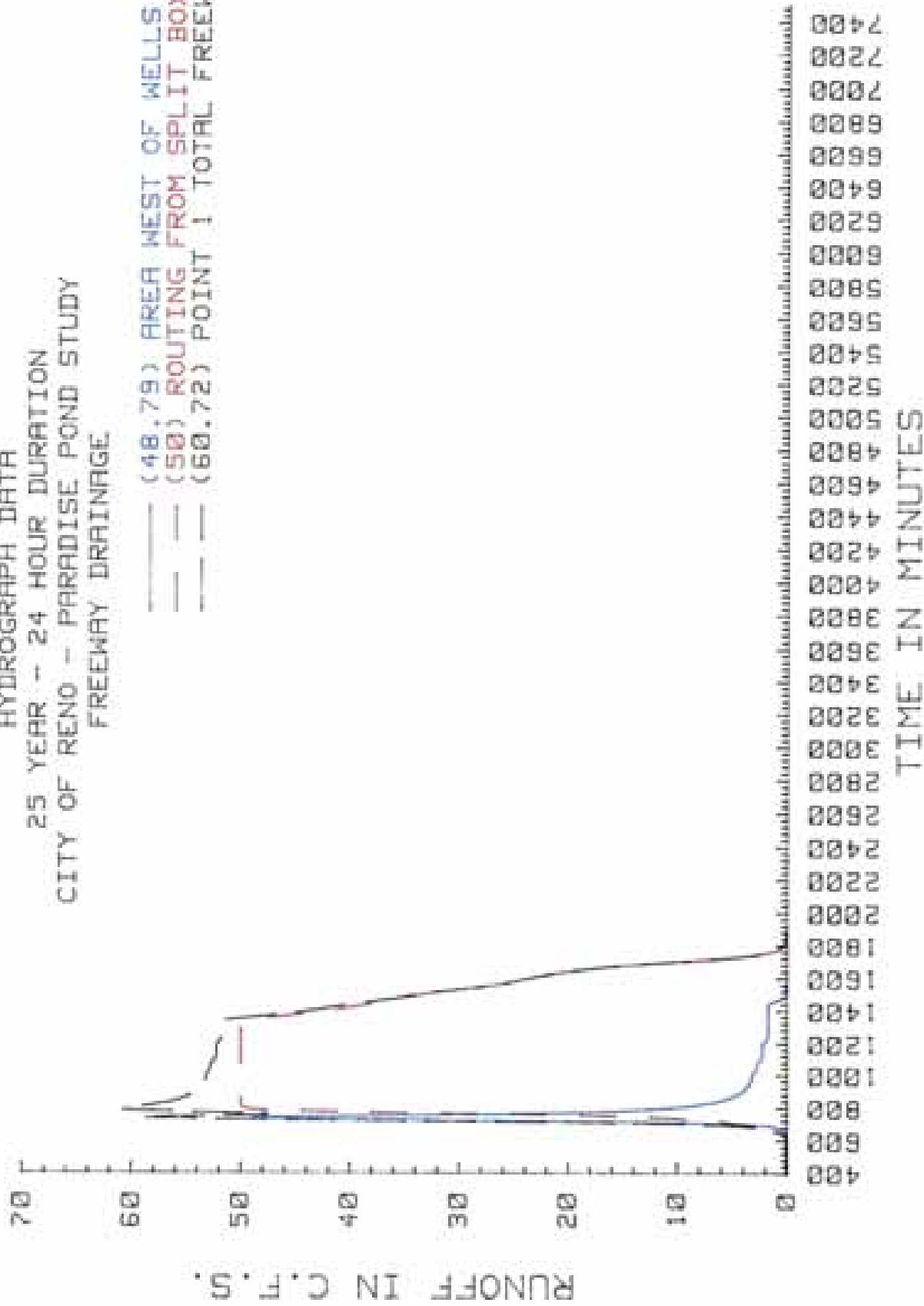






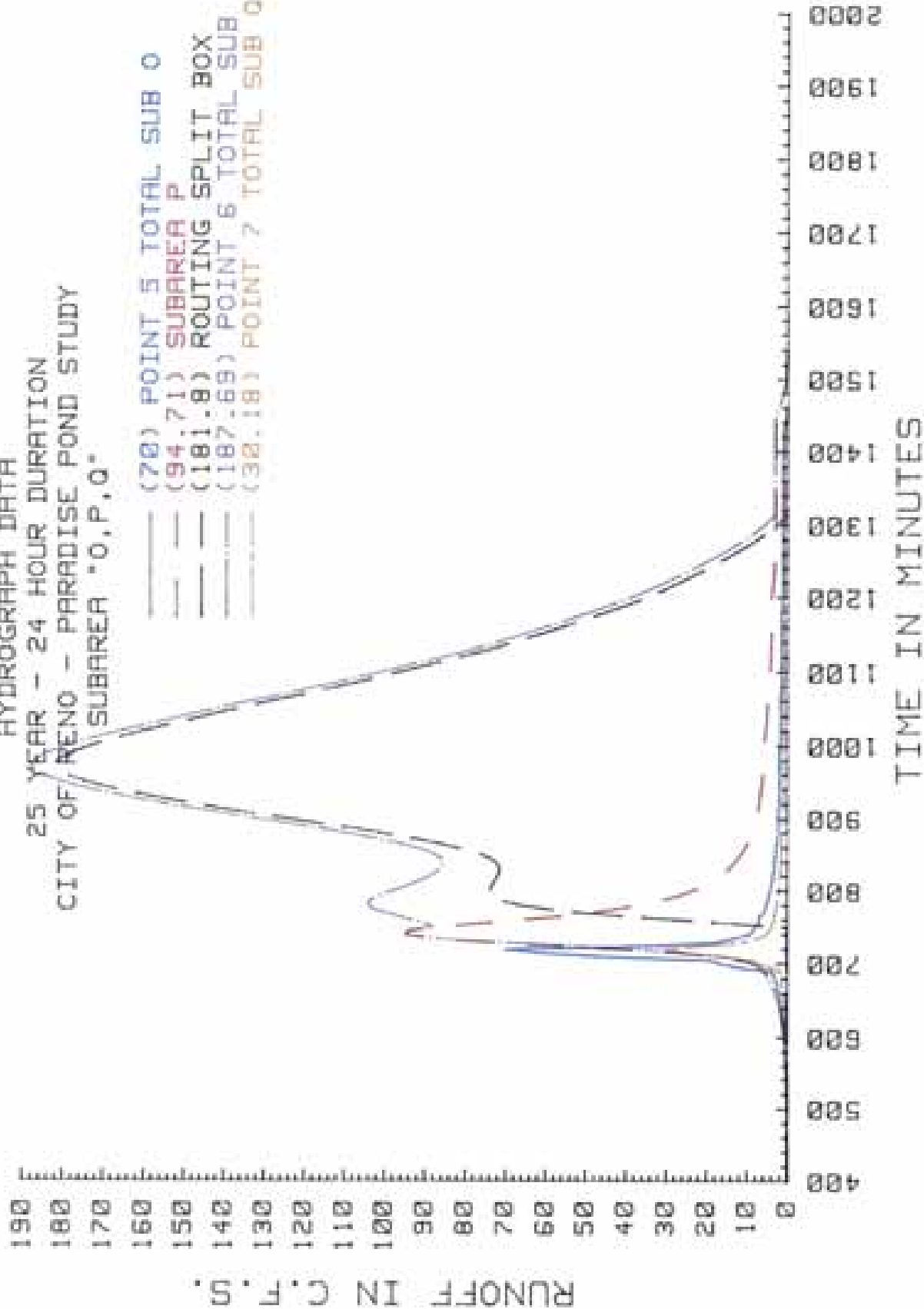
HYDROGRAPH DATA
 25 YEAR -- 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 FREEWAY DRAINAGE

_____ (48.79) AREA WEST OF WELLS
 _____ (50) ROUTING FROM SPLIT BOX
 _____ (60.72) POINT 1 TOTAL FREEWAY



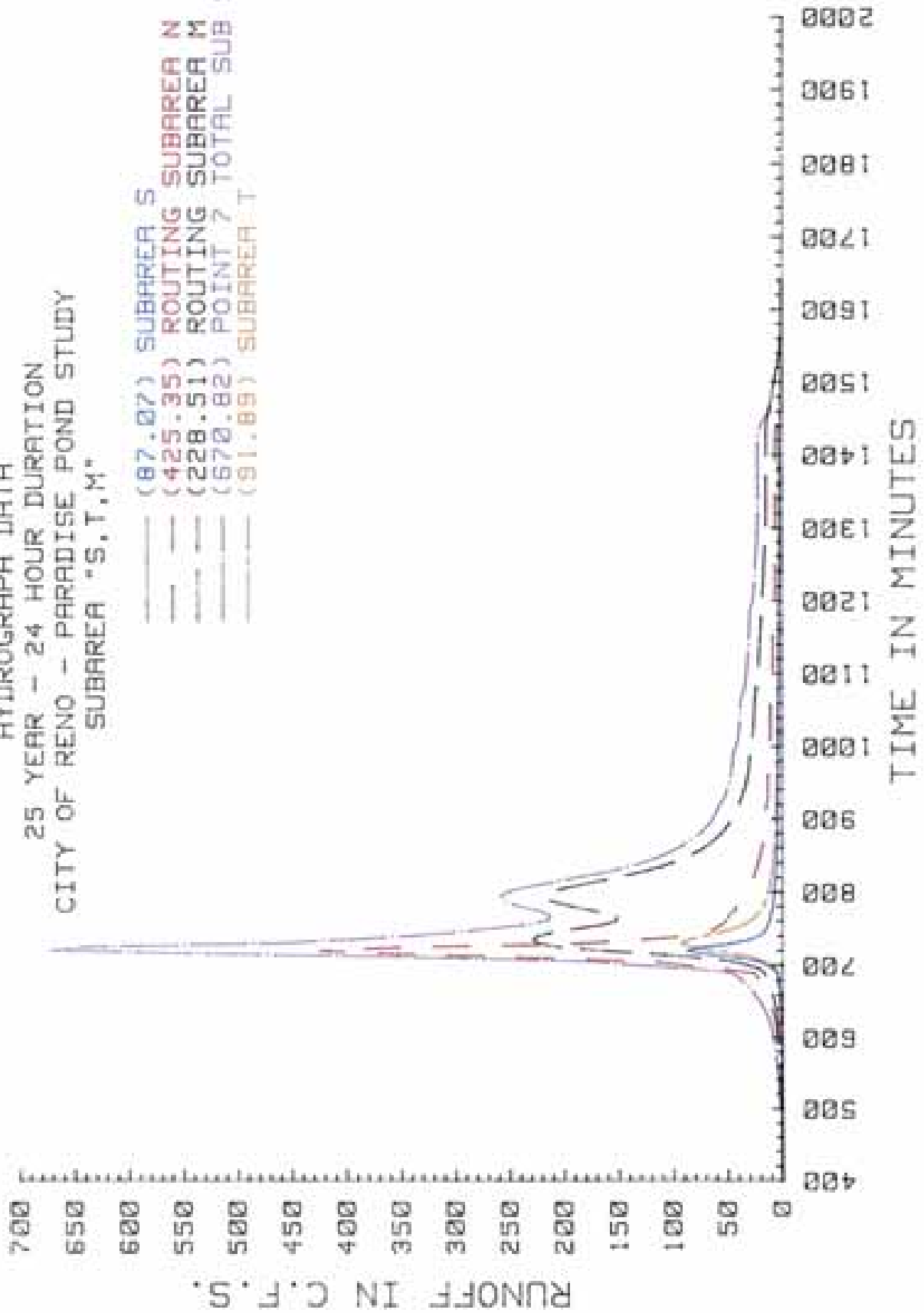
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "O.P.O."

(70) POINT 5 TOTAL SUB O
(94.71) SUBAREA P
(181.8) ROUTING SPLIT BOX
(187.69) POINT 6 TOTAL SUB P
(38.18) POINT 7 TOTAL SUB Q



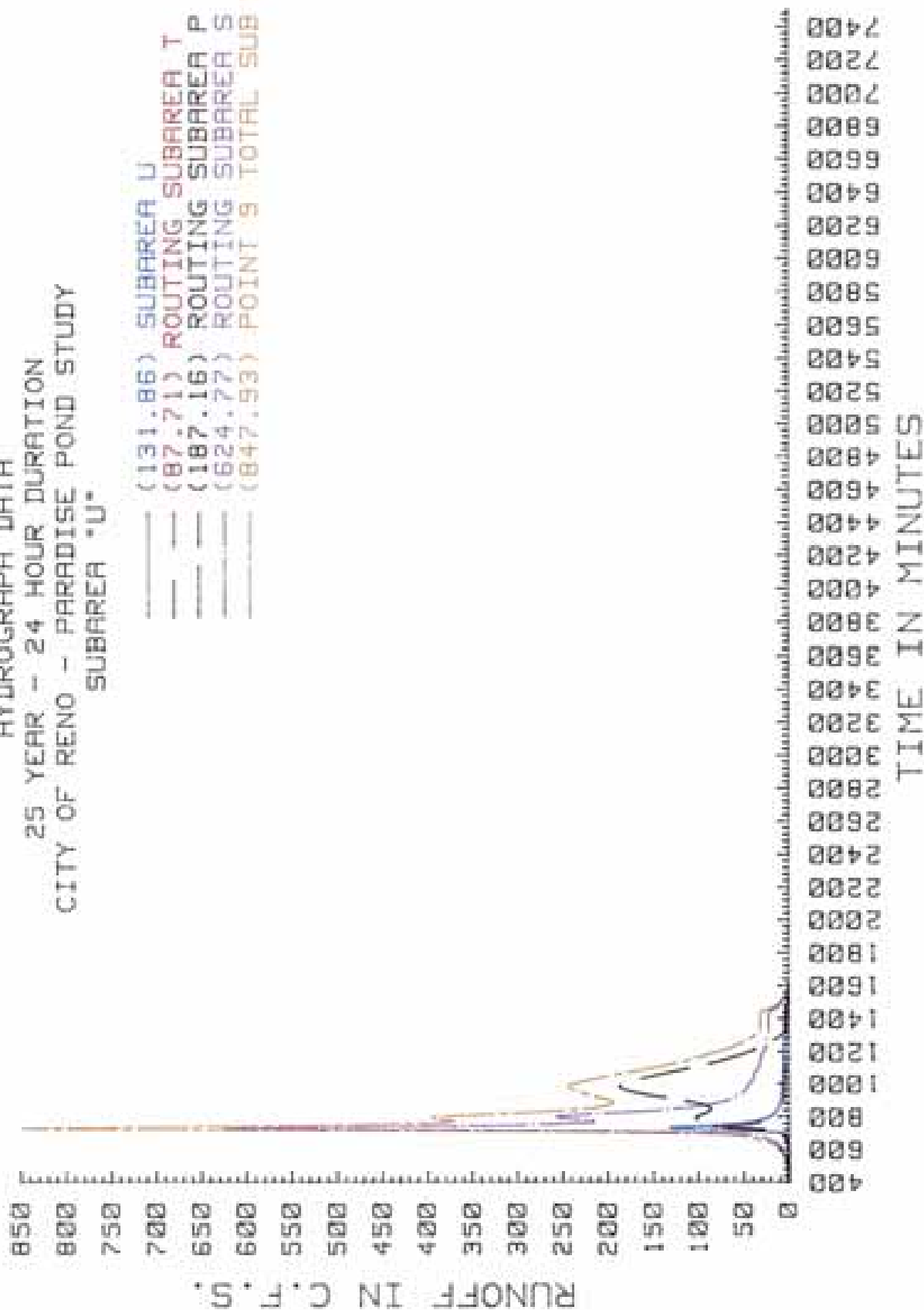
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S,T,M"

---	(87.07)	SUBAREA S
---	(425.35)	ROUTING SUBAREA N
---	(228.51)	ROUTING SUBAREA M
---	(670.82)	POINT 7 TOTAL SUB S
---	(91.89)	SUBAREA T



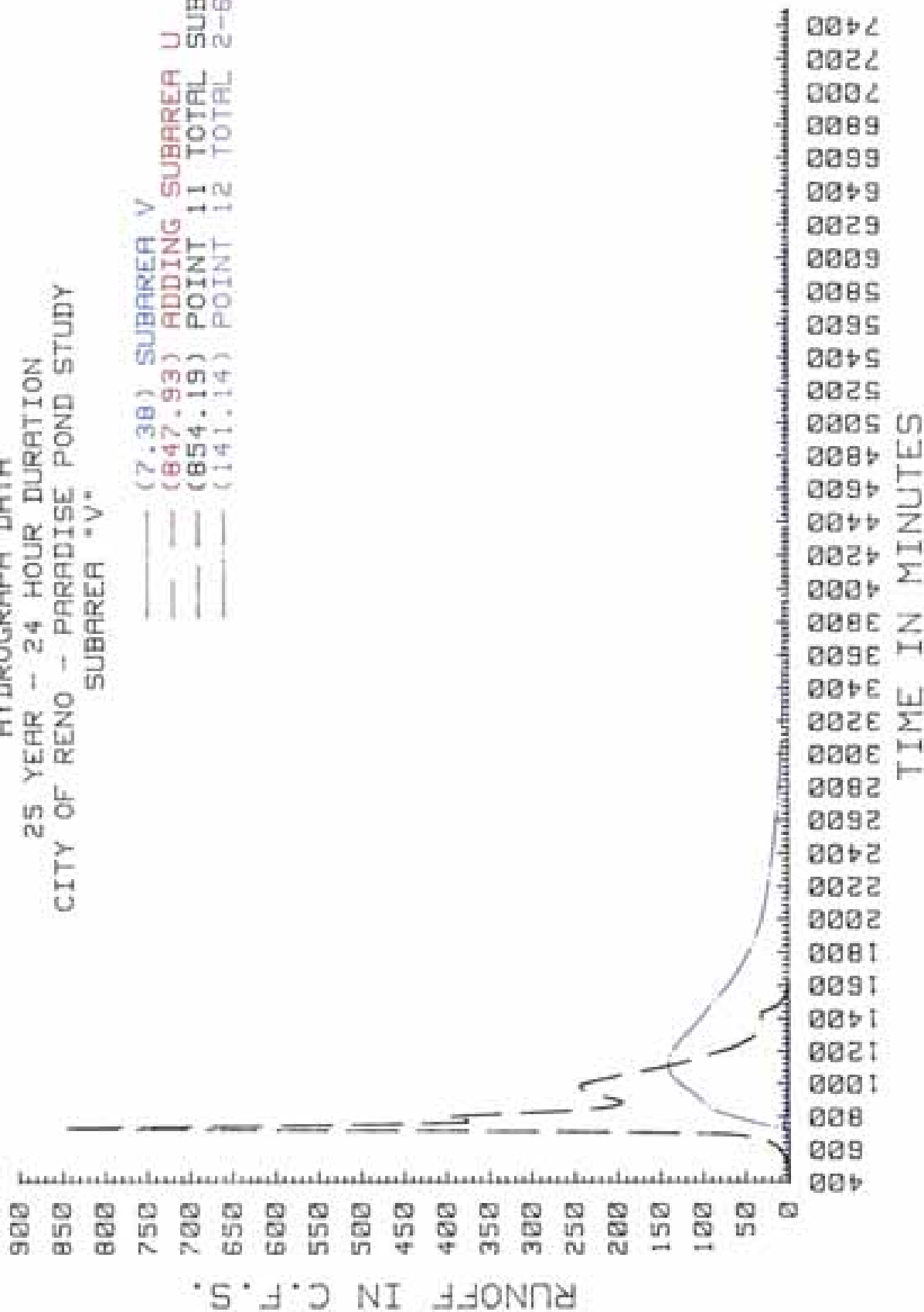
HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "U"

- (131.86) SUBAREA U
- (87.71) ROUTING SUBAREA T
- (187.16) ROUTING SUBAREA P
- (624.77) ROUTING SUBAREA S
- (847.93) POINT 9 TOTAL SUB U



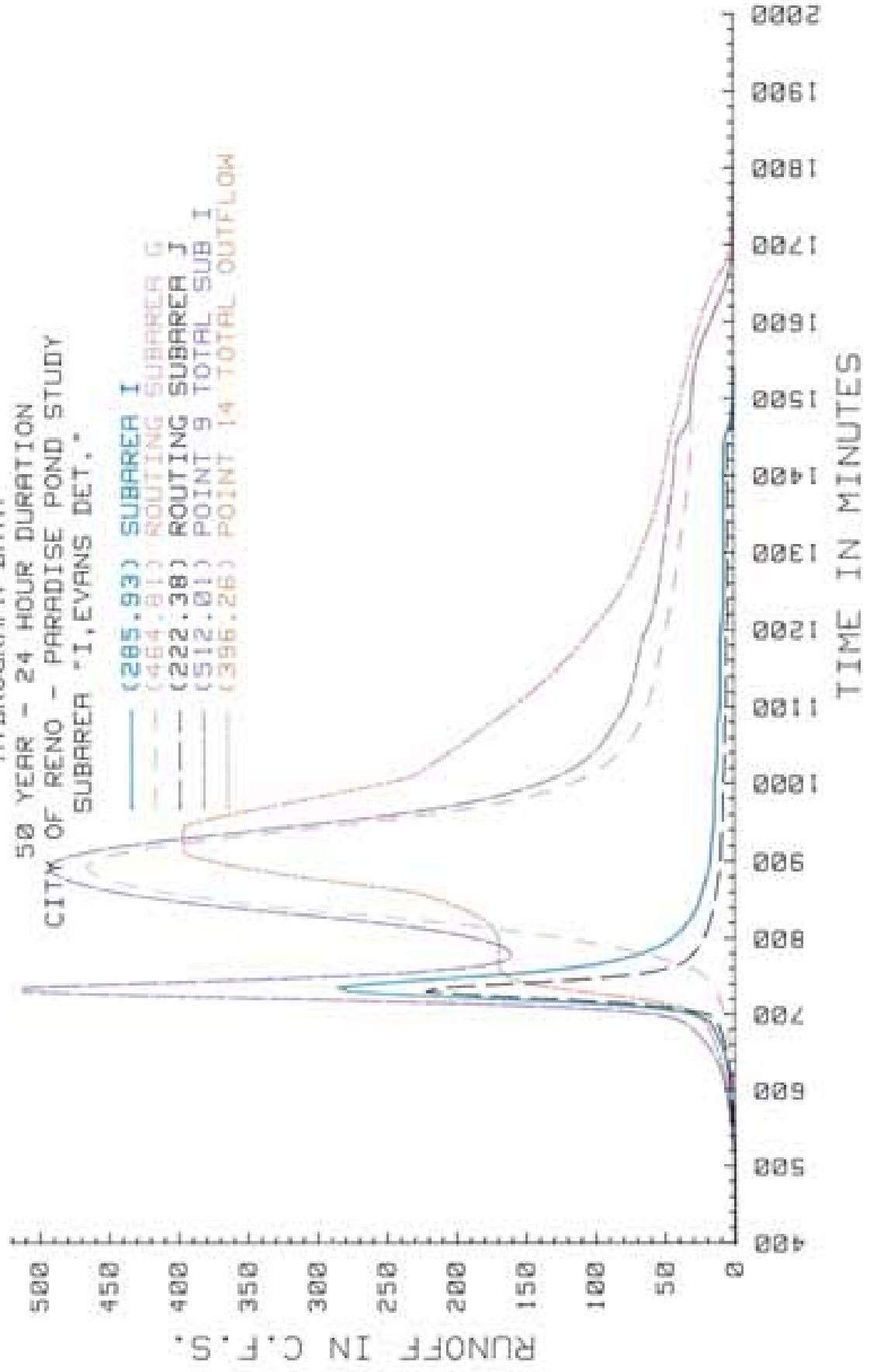
HYDROGRAPH DATA
 25 YEAR -- 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA "V"

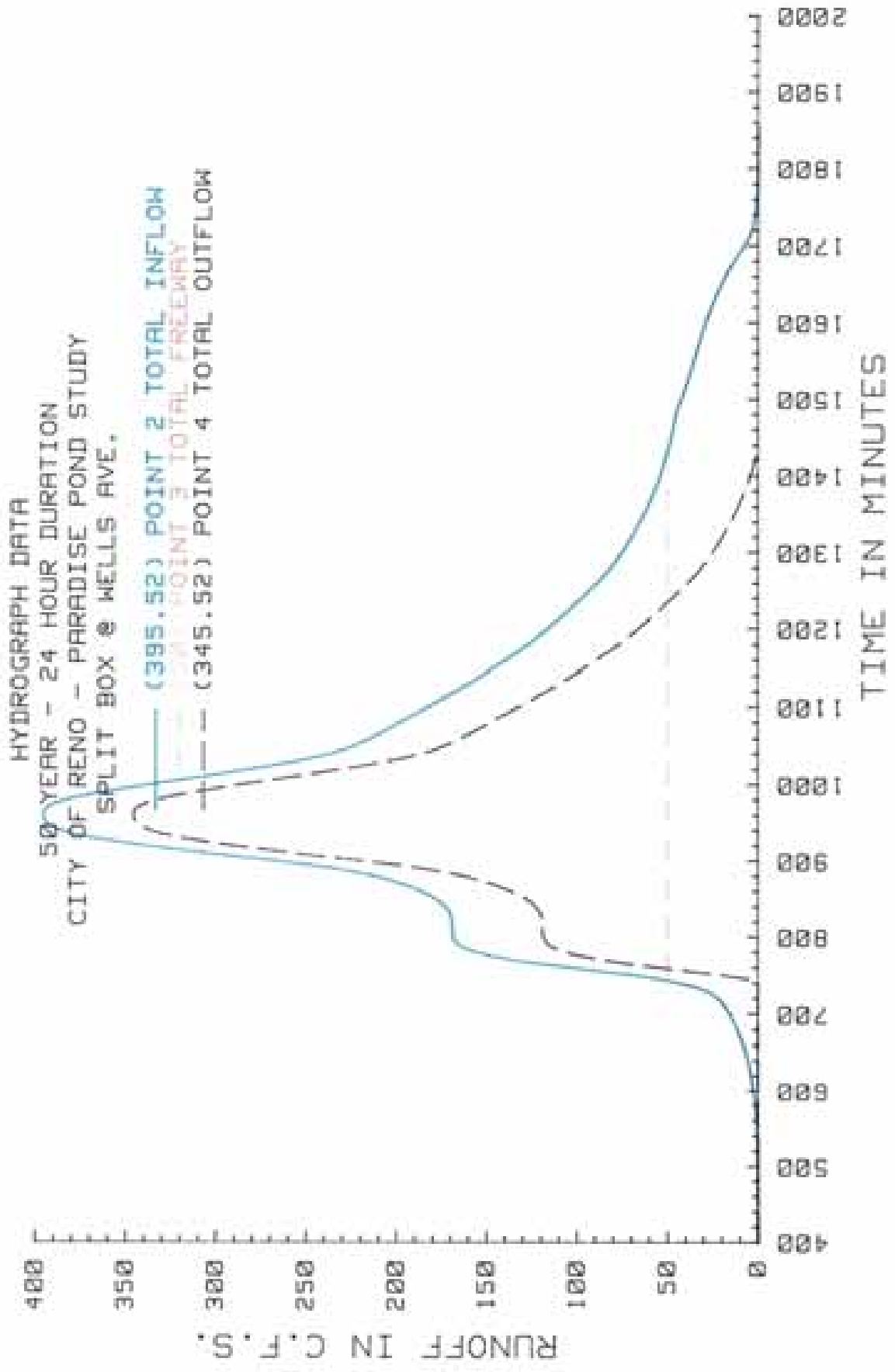
--- (7.38) SUBAREA V
 --- (847.93) ADDING SUBAREA U
 --- (854.19) POINT 11 TOTAL SUB V
 --- (141.14) POINT 12 TOTAL 2-60in.



HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "I, EVANS DET."

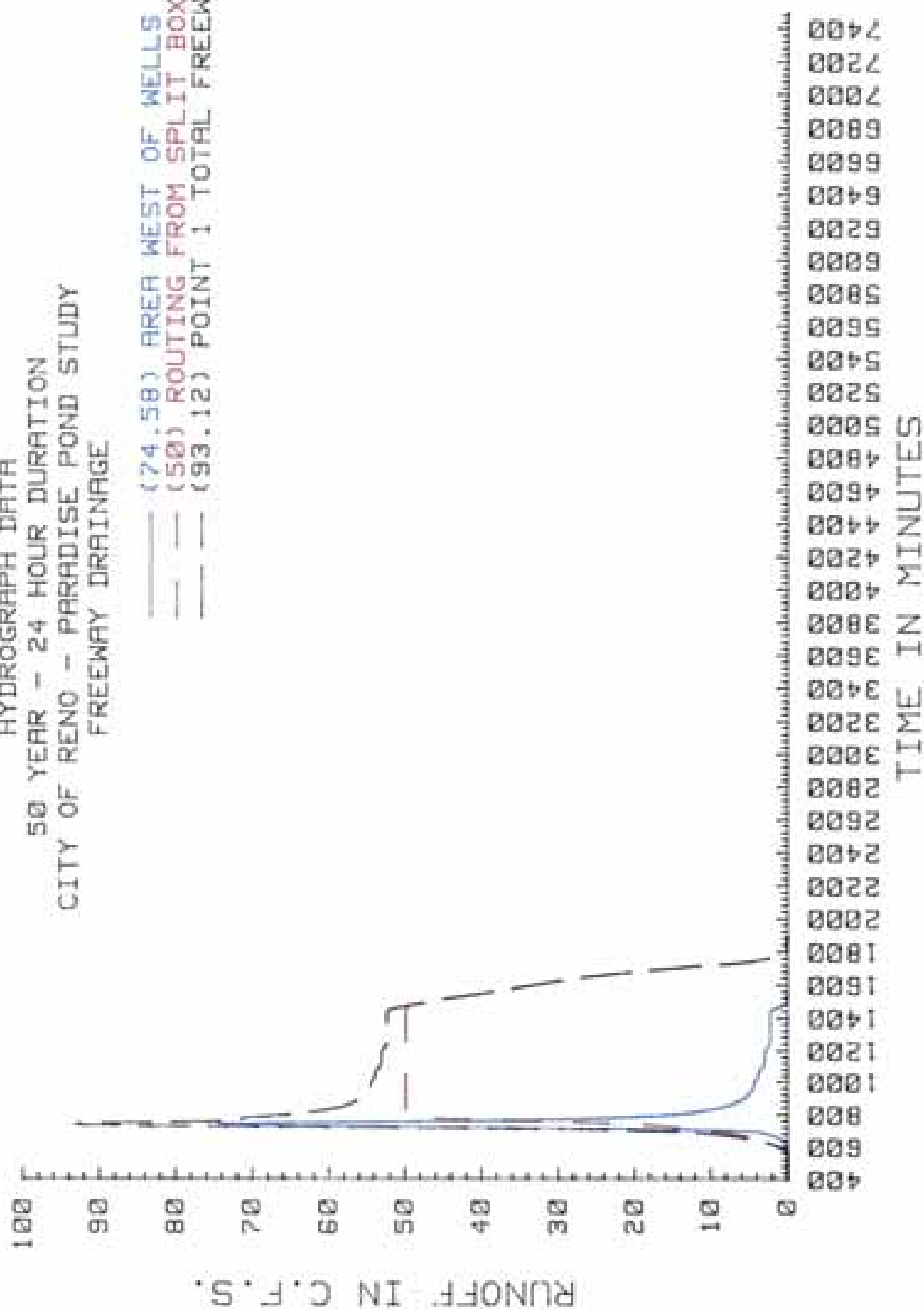
(285.93)	SUBAREA I
(464.81)	ROUTING SUBAREA G
(222.38)	ROUTING SUBAREA J
(512.01)	POINT 9 TOTAL SUB I
(396.26)	POINT 14 TOTAL OUTFLOW

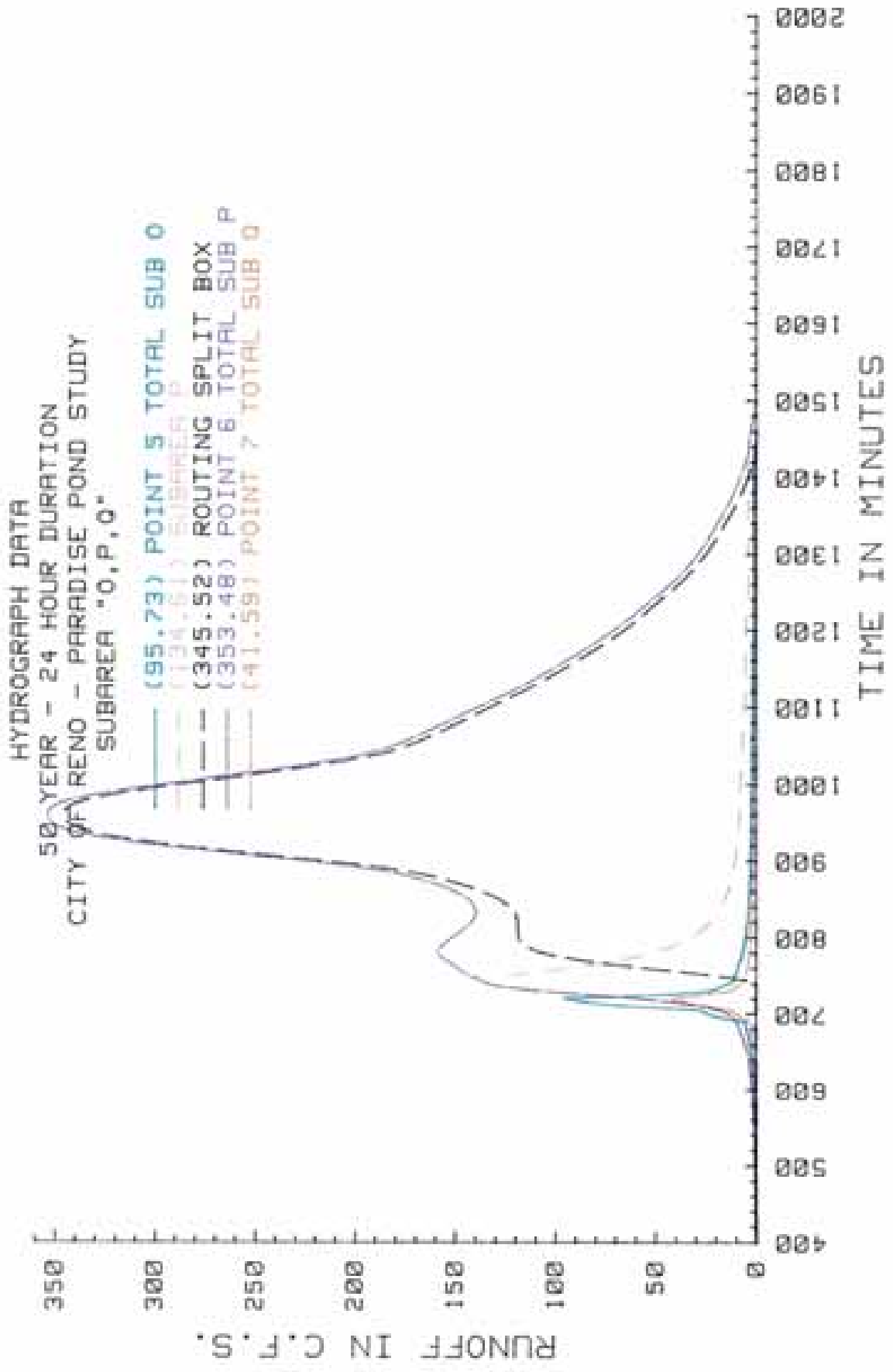




HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

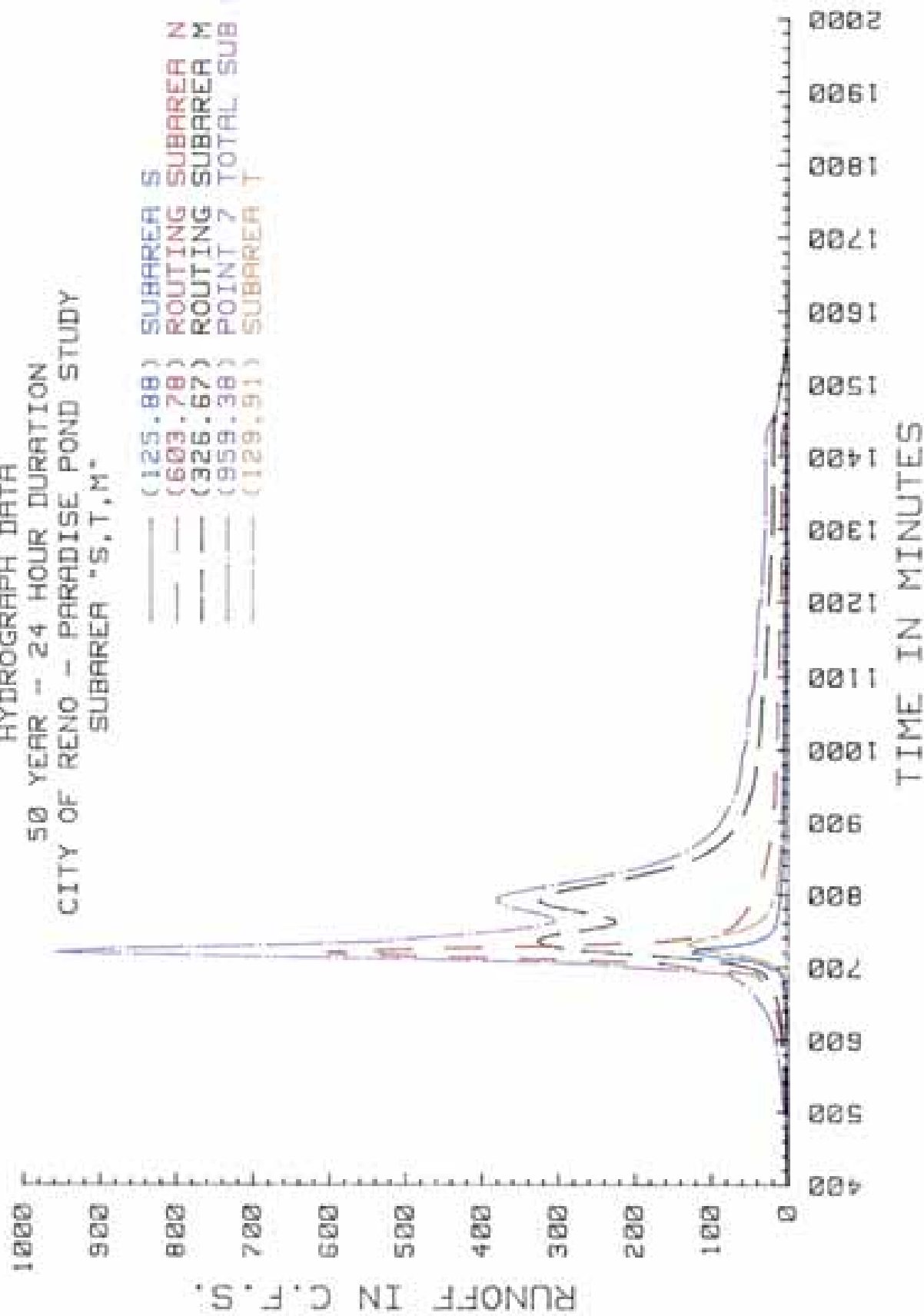
— (74.58) AREA WEST OF WELLS
 - - (50) ROUTING FROM SPLIT BOX
 - - (93.12) POINT 1 TOTAL FREEWAY

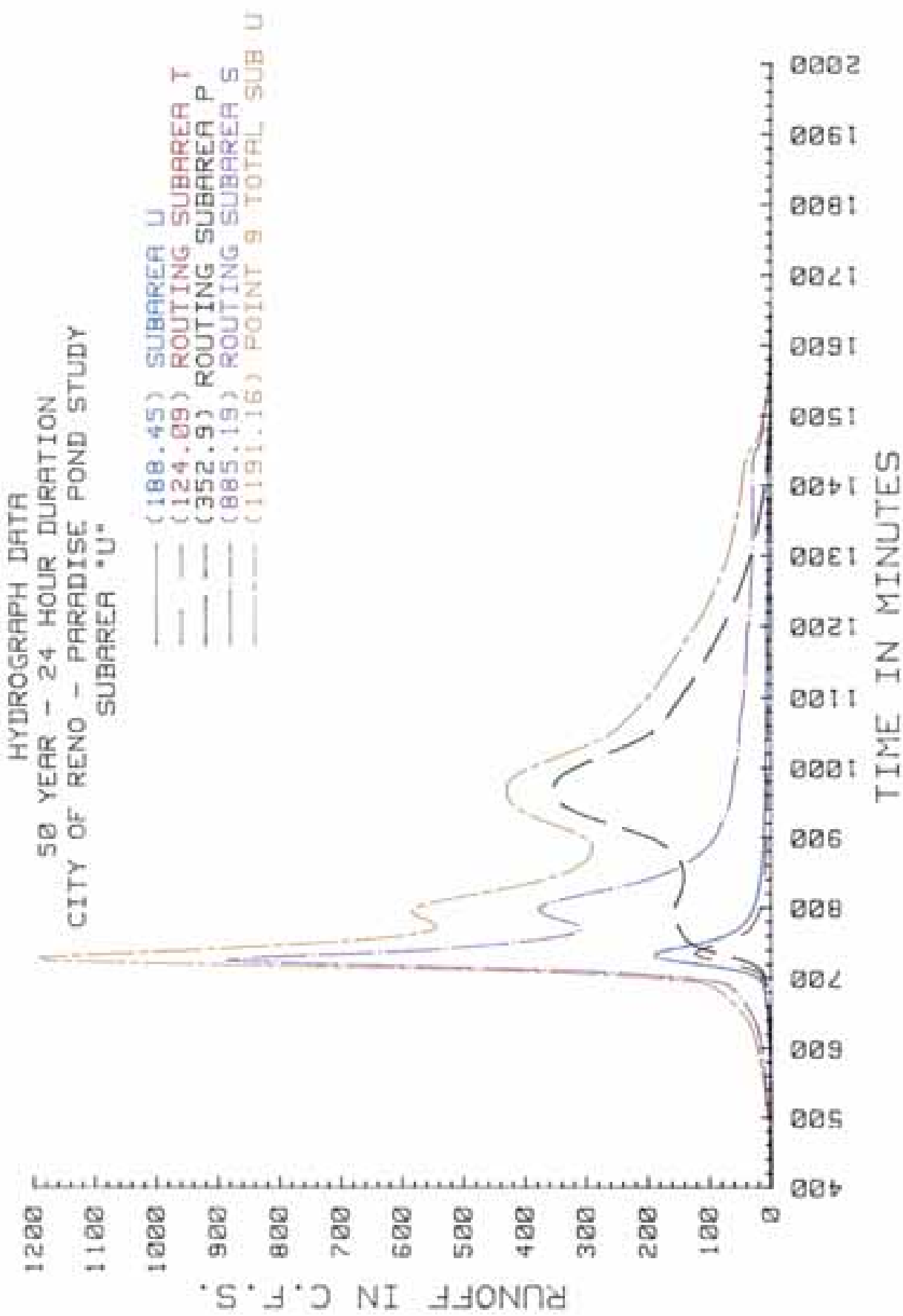




HYDROGRAPH DATA
 50 YEAR -- 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA "S.T.M."

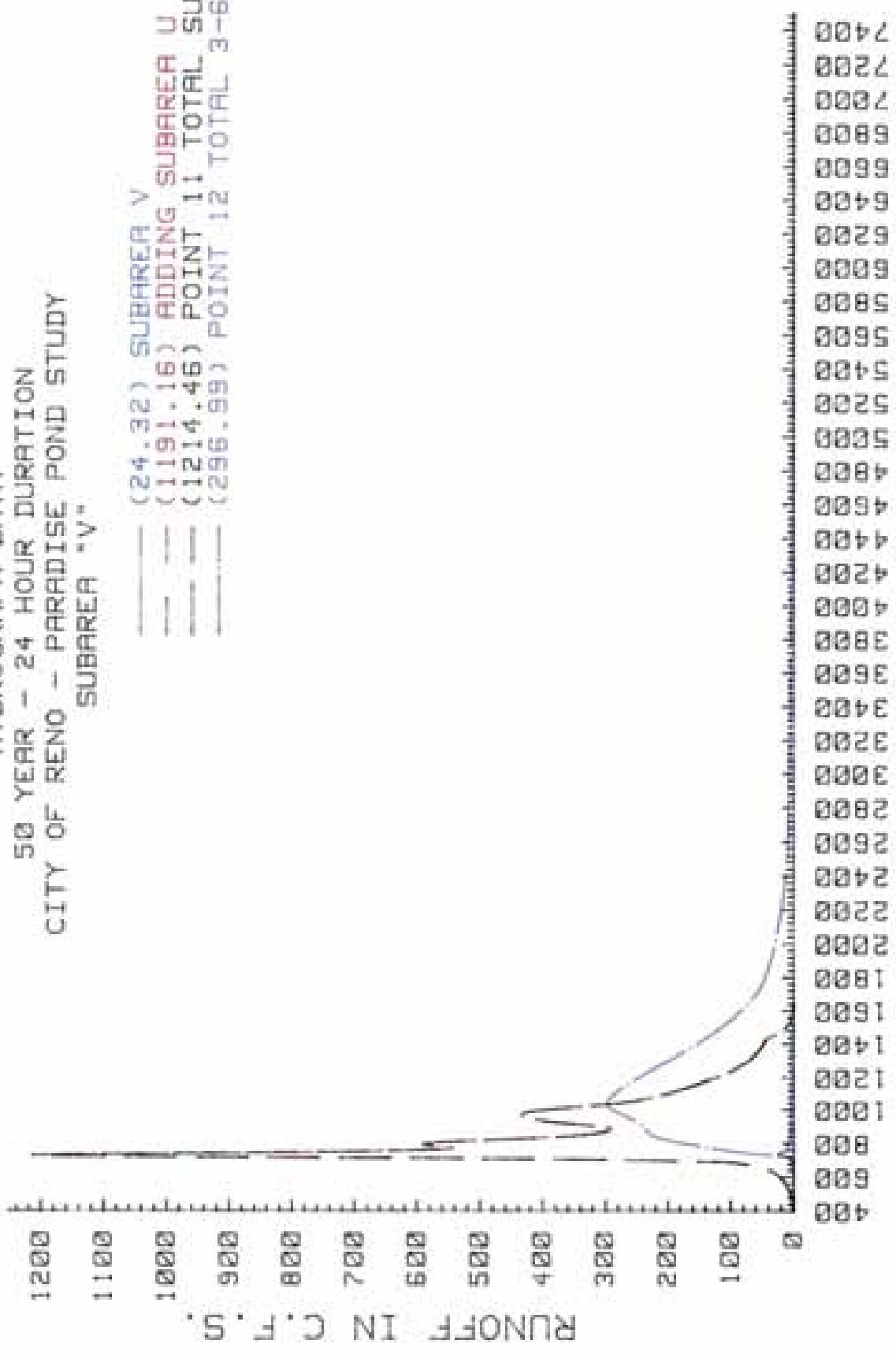
	(125.88)	SUBAREA S	(125.88)	SUBAREA S
	(603.78)	ROUTING	(603.78)	ROUTING
	(326.67)	ROUTING	(326.67)	ROUTING
	(959.38)	POINT 7	(959.38)	POINT 7
	(129.91)	SUBAREA T	(129.91)	SUBAREA T





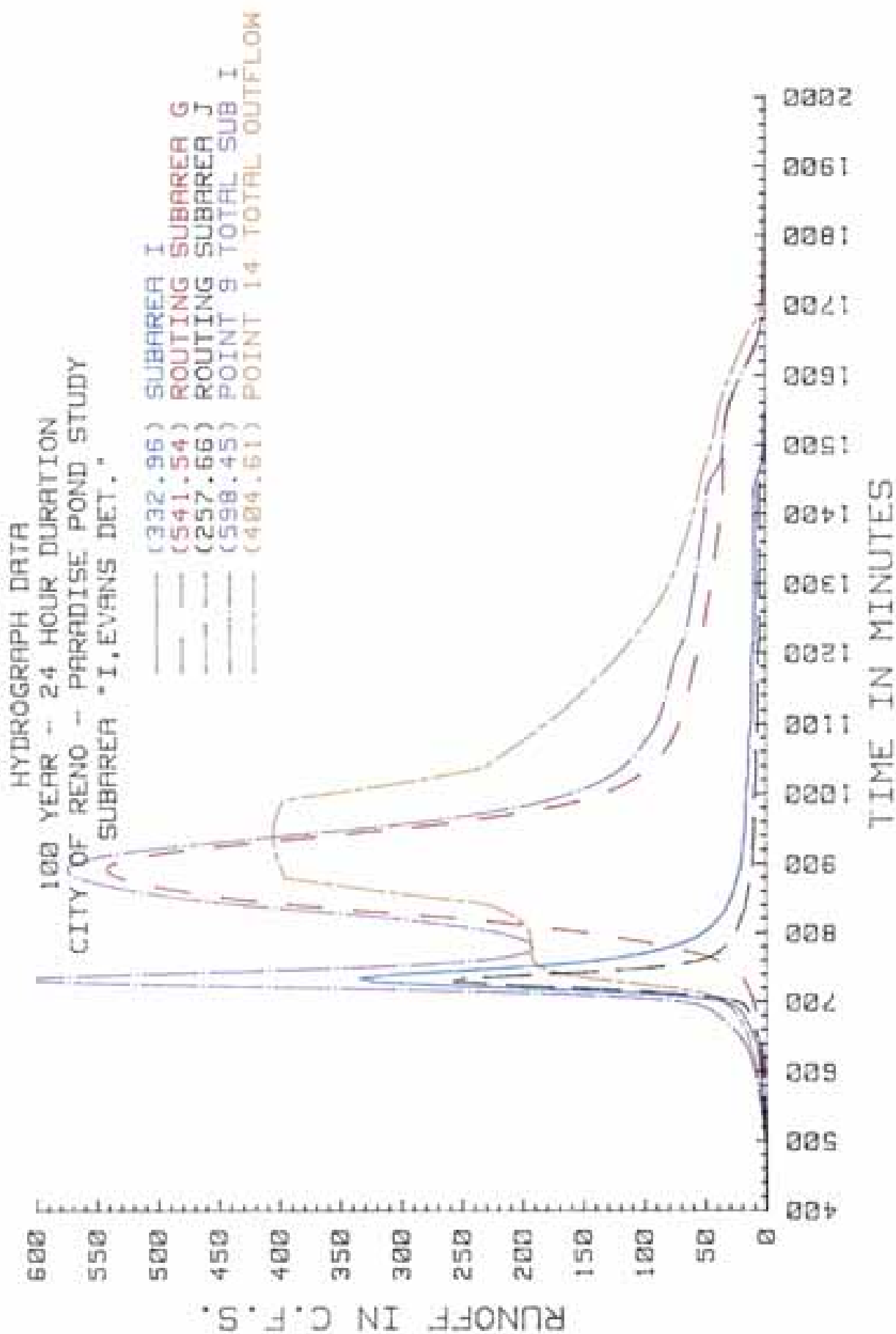
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

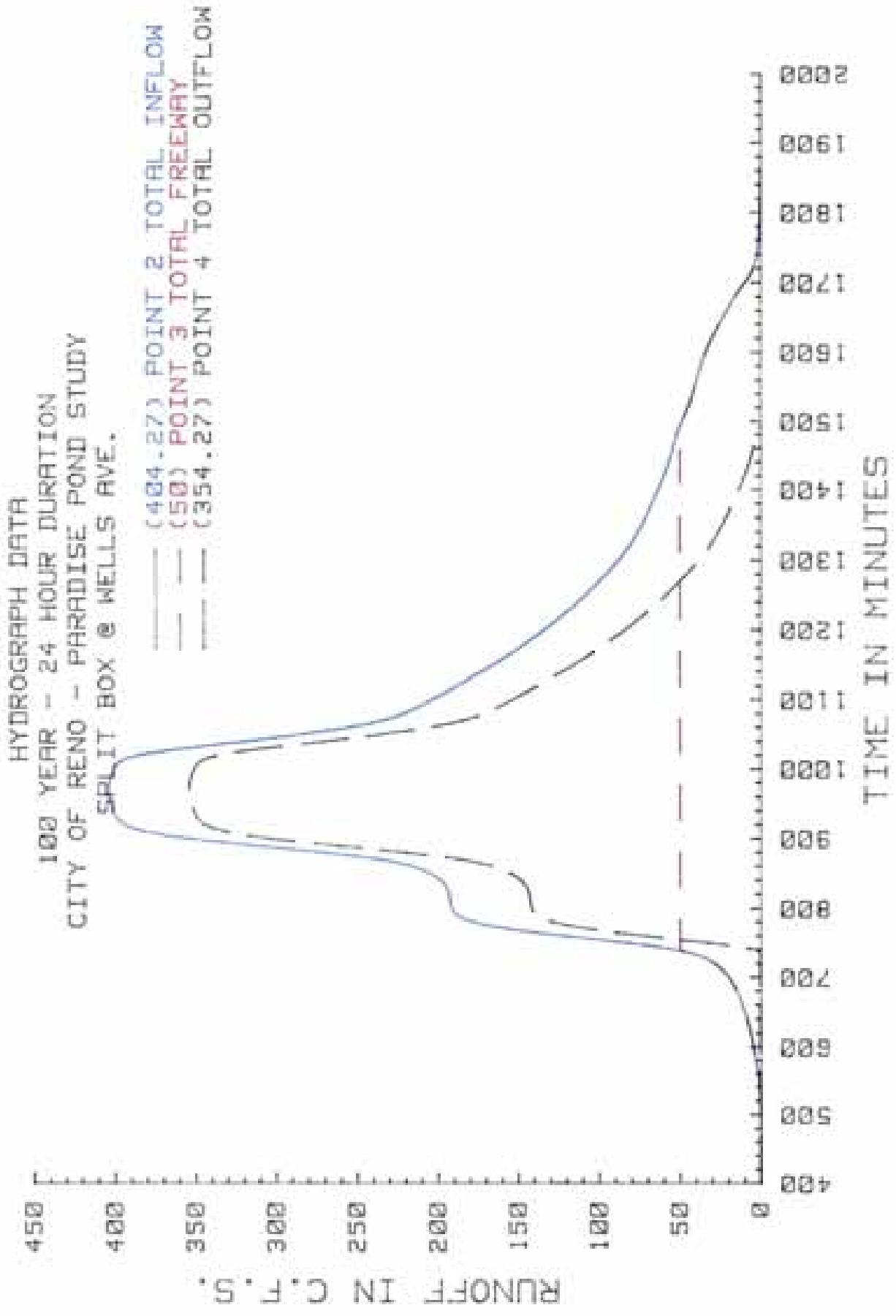
- (24.32) SUBAREA V
- - (1191.16) ADDING SUBAREA U
- - - (1214.46) POINT 11 TOTAL SUB V
- · - · (296.99) POINT 12 TOTAL 3-66 OUT



TIME IN MINUTES

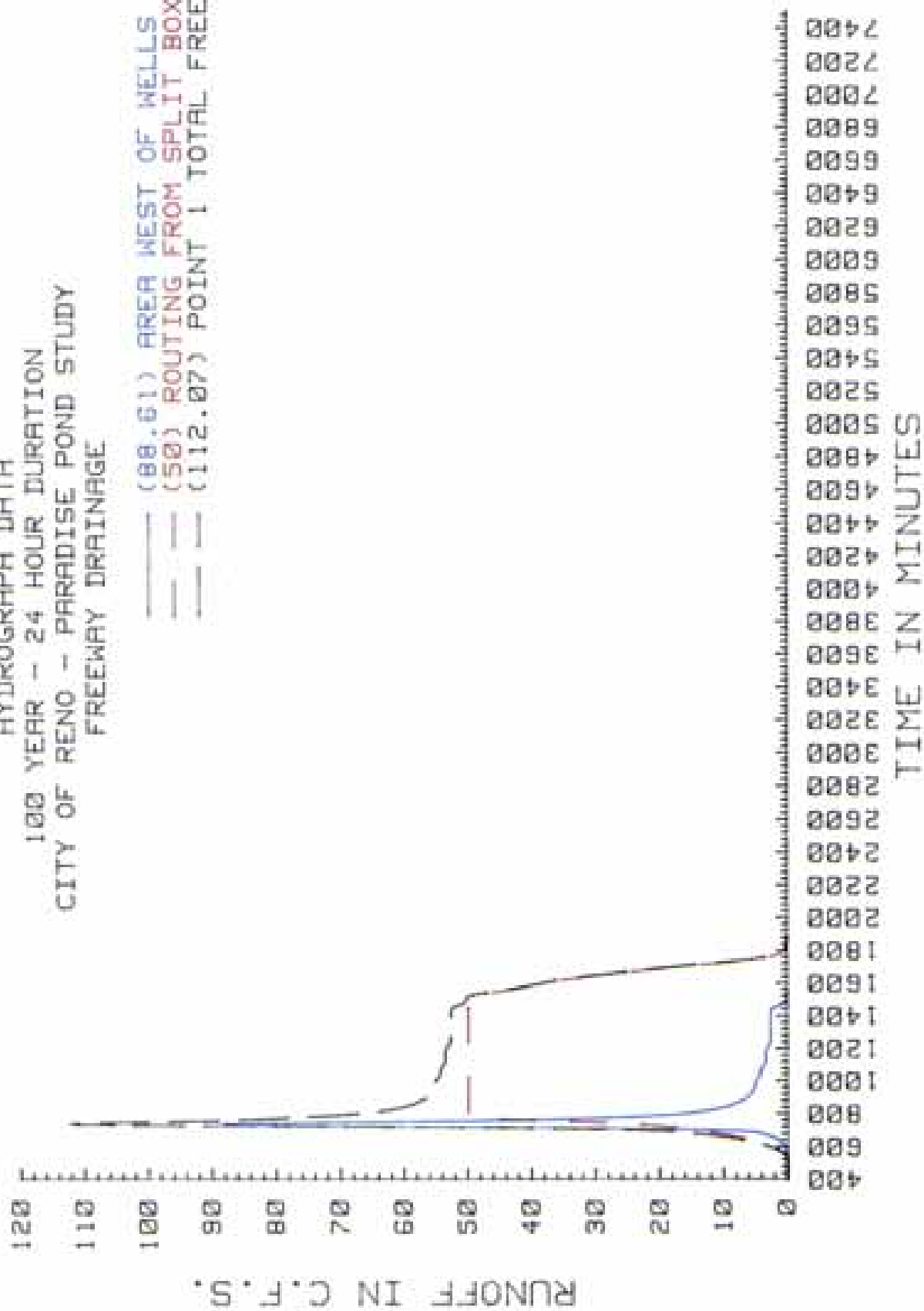
RUNOFF IN C.F.S.

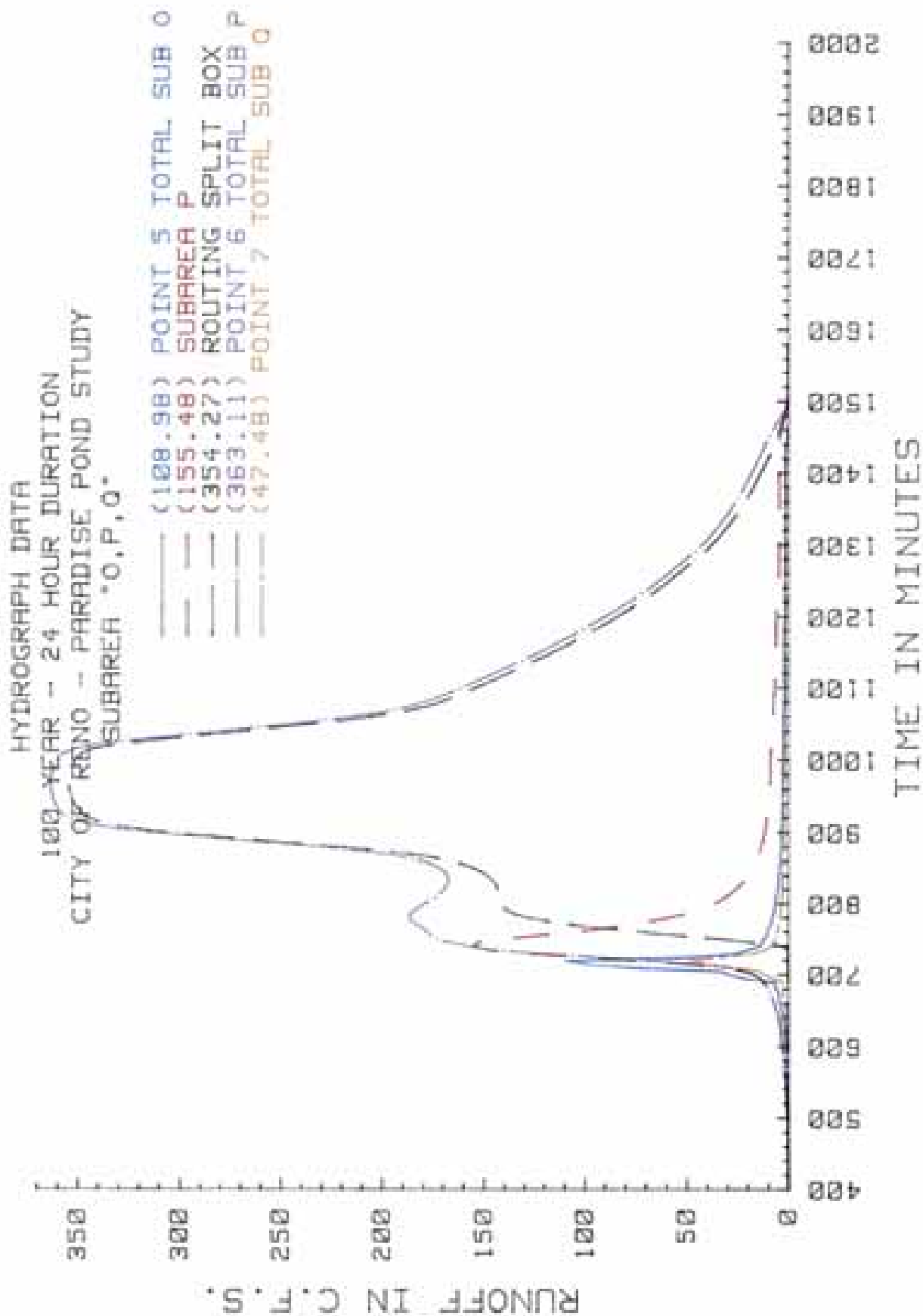




HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

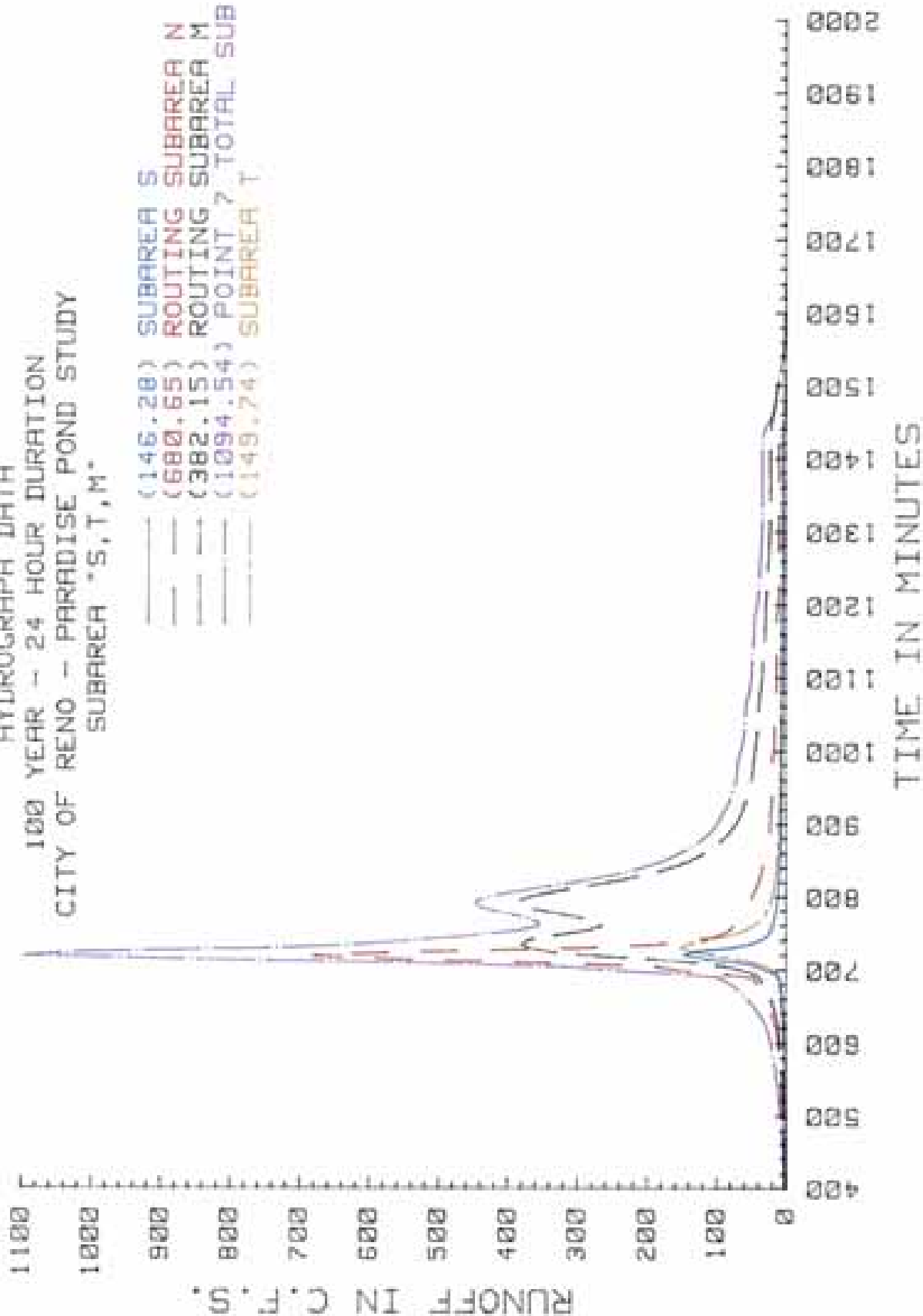
— (88.61) AREA WEST OF WELLS
 - - (50) ROUTING FROM SPLIT BOX
 - - (112.07) POINT 1 TOTAL FREEWAY





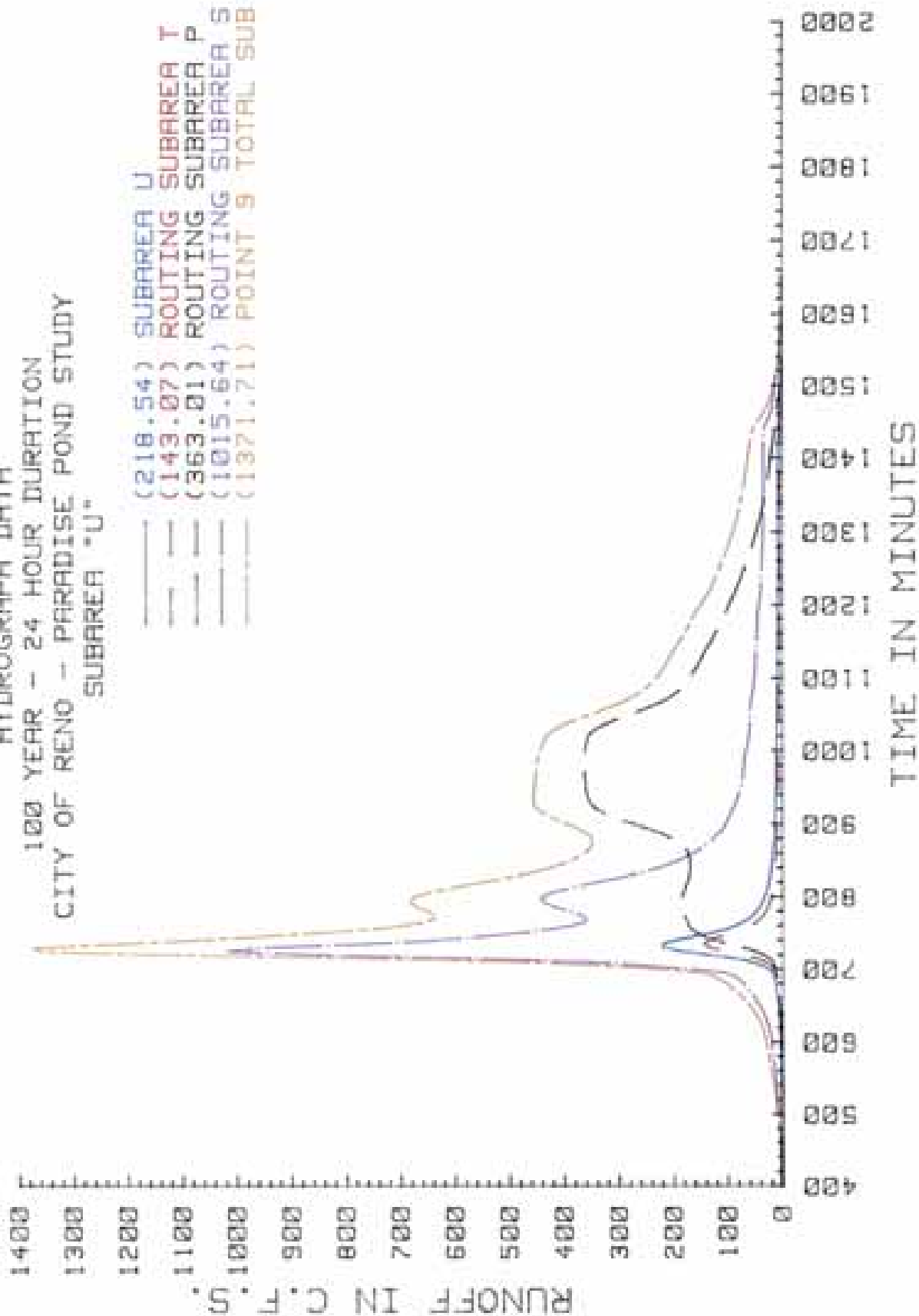
HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S,T,M"

---	(146.20)	SUBAREA S
---	(680.65)	ROUTING SUBAREA N
---	(382.15)	ROUTING SUBAREA M
---	(1094.54)	POINT ? TOTAL SUB S
---	(149.74)	SUBAREA T



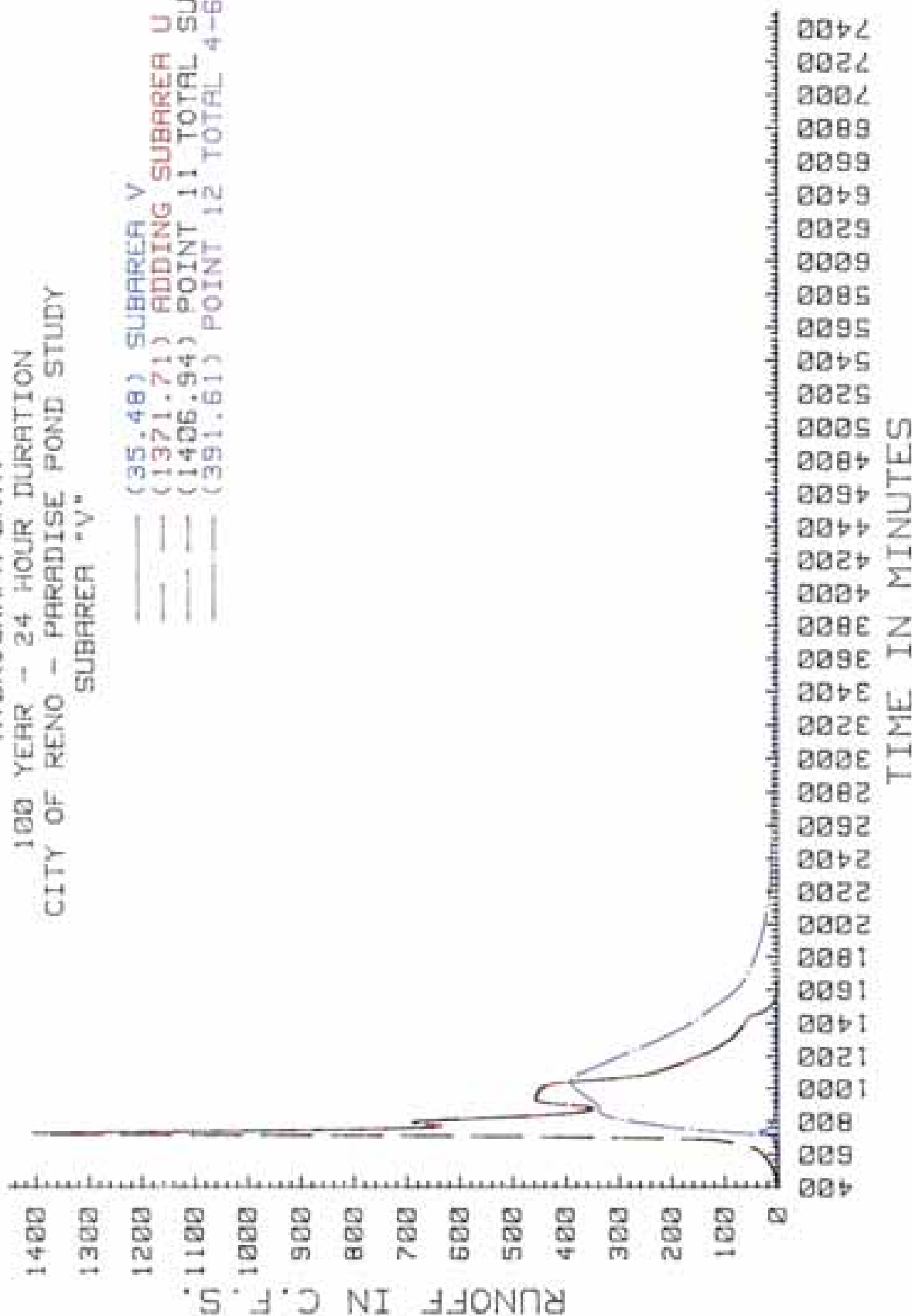
HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "U"

---	(218.54)	SUBAREA U
---	(143.07)	ROUTING SUBAREA T
---	(363.01)	ROUTING SUBAREA P
---	(1015.64)	ROUTING SUBAREA S
---	(1371.71)	POINT 9 TOTAL SUB U



HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

--- (35.48) SUBAREA V
 --- (1371.71) ADDING SUBAREA U
 --- (1406.94) POINT 11 TOTAL SUB V
 --- (391.61) POINT 12 TOTAL 4-66 OUT



Handwritten text, possibly bleed-through from the reverse side of the page. The text is mostly illegible due to blurring and orientation.

APPENDIX E

TABLE E-1

CONDITION NO. 5 WITH 3-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
A	2.75 cfs @ 110 min.	11.20 cfs @ 80 min.	19.68 cfs @ 60 min.	33.80 cfs @ 60 min.
B	3.30 cfs @ 130 min.	13.47 cfs @ 105 min.	22.97 cfs @ 90 min.	38.01 cfs @ 75 min.
C	0.23 cfs @ 155 min.	1.48 cfs @ 75 min.	2.76 cfs @ 55 min.	5.15 cfs @ 50 min.
D	7.82 cfs @ 105 min.	26.45 cfs @ 80 min.	43.31 cfs @ 80 min.	68.04 cfs @ 75 min.
E	14.37 cfs @ 130 min.	47.14 cfs @ 105 min.	75.56 cfs @ 100 min.	116.72 cfs @ 95 min.
F	3.80 cfs @ 95 min.	14.40 cfs @ 50 min.	24.88 cfs @ 45 min.	44.08 cfs @ 35 min.
G	18.44 cfs @ 215 min.	60.21 cfs @ 200 min.	95.82 cfs @ 195 min.	147.56 cfs @ 190 min.
H	0.38 cfs @ 125 min.	2.03 cfs @ 75 min.	3.76 cfs @ 50 min.	6.72 cfs @ 50 min.
I	18.26 cfs @ 260 min.	59.53 cfs @ 245 min.	23.88 cfs @ 235 min.	145.96 cfs @ 230 min.
J	4.32 cfs @ 75 min.	14.74 cfs @ 50 min.	24.47 cfs @ 40 min.	40.34 cfs @ 40 min.
Evans	16.97 cfs @ 0.5 ac.ft.	52.15 cfs @ 3.0 ac.ft.	79.85 cfs @ 5.6 ac.ft.	117.59 cfs @ 10.1 ac.ft.
Split Box	16.88 cfs @ 320 min.	51.89 cfs @ 310 min.	79.49 cfs @ 310 min.	117.11 cfs @ 310 min.
Freeway	16.88 cfs @ 320 min.	50.00 cfs @ 310 min.	50.00 cfs @ 310 min.	50.00 cfs @ 310 min.

TABLE E-1 - (con't)

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
K	0.98 cfs @ 150 min. w/0.5 ac.ft.	4.92 cfs @ 110 min. w/2.5 ac.ft.	8.54 cfs @ 95 min. w/4.3 ac.ft.	13.94 cfs @ 85 min. w/7.0 ac.ft.
L	5.92 cfs @ 80 min.	18.82 cfs @ 55 min.	30.24 cfs @ 50 min.	47.44 cfs @ 45 min.
M	11.36 cfs @ 80 min.	32.36 cfs @ 65 min.	50.74 cfs @ 60 min.	76.61 cfs @ 60 min.
N	16.55 cfs @ 55 min.	45.86 cfs @ 35 min.	71.60 cfs @ 35 min.	106.18 cfs @ 35 min.
O	2.00 cfs @ 50 min.	6.40 cfs @ 30 min.	10.77 cfs @ 30 min.	16.86 cfs @ 30 min.
P	4.36 cfs @ 105 min.	12.81 cfs @ 80 min.	29.50 cfs @ 310 min.	67.12 cfs @ 310 min.
Q	0.91 cfs @ 55 min.	2.85 cfs @ 35 min.	4.64 cfs @ 35 min.	7.19 cfs @ 30 min.
R	2.88 cfs @ 35 min.	6.41 cfs @ 30 min.	8.37 cfs @ 30 min.	10.95 cfs @ 30 min.
S	28.05 cfs @ 75 min.	77.51 cfs @ 55 min.	116.99 cfs @ 50 min.	173.57 cfs @ 50 min.
T	3.29 cfs @ 85 min.	10.27 cfs @ 60 min.	16.47 cfs @ 55 min.	25.56 cfs @ 55 min.
U	37.96 cfs @ 85 min.	107.36 cfs @ 65 min.	168.07 cfs @ 60 min.	253.75 cfs @ 60 min.
V	37.96 cfs @ 85 min.	107.36 cfs @ 65 min.	168.07 cfs @ 60 min.	253.75 cfs @ 60 min.

Paradise Pond Outlet; One 30-inch pipe under inlet conditions:

0.67 cfs @ 85 min. w/6.6ac.ft.	2.22 cfs @ 65 min. w/18.7ac.ft.	5.83 cfs @ 60 min. w/32.3ac.ft.	11.80 cfs @ 60 min. w/55.7ac.ft.
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TABLE E-2

CONDITION NO. 5 WITH 6-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
A	4.44 cfs @ 215 min.	19.78 cfs @ 165 min.	32.51 cfs @ 165 min.	64.51 cfs @ 160 min.
B	5.58 cfs @ 235 min.	20.28 cfs @ 180 min.	33.25 cfs @ 180 min.	64.91 cfs @ 175 min.
C	0.53 cfs @ 360 min.	2.70 cfs @ 155 min.	5.56 cfs @ 150 min.	12.52 cfs @ 150 min.
D	14.25 cfs @ 160 min.	40.17 cfs @ 160 min.	60.64 cfs @ 160 min.	109.27 cfs @ 160 min.
E	22.64 cfs @ 215 min.	62.85 cfs @ 200 min.	93.42 cfs @ 200 min.	164.25 cfs @ 195 min.
F	7.48 cfs @ 155 min.	32.16 cfs @ 150 min.	50.44 cfs @ 150 min.	90.93 cfs @ 150 min.
G	30.85 cfs @ 320 min.	81.25 cfs @ 300 min.	118.63 cfs @ 295 min.	203.76 cfs @ 290 min.
H	0.72 cfs @ 245 min.	4.25 cfs @ 150 min.	7.88 cfs @ 150 min.	16.24 cfs @ 150 min.
I	40.22 cfs @ 360 min.	99.19 cfs @ 345 min.	141.93 cfs @ 340 min.	237.75 cfs @ 335 min.
J	9.55 cfs @ 155 min.	29.24 cfs @ 155 min.	42.94 cfs @ 150 min.	75.31 cfs @ 150 min.
Evans	35.98 cfs @ 1.6 ac.ft.	80.69 cfs @ 5.7 ac.ft.	111.20 cfs @ 9.2 ac.ft.	173.98 cfs @ 18.3 ac.ft.
Split Box	35.63 cfs @ 410 min.	80.18 cfs @ 415 min.	110.59 cfs @ 415 min.	173.09 cfs @ 415 min.
Freeway	35.63 cfs @ 410 min.	50.00 cfs @ 415 min.	50.00 cfs @ 415 min.	50.00 cfs @ 415 min.

TABLE E-2 - (con't)

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
K	3.10 cfs @ 265 min. w/1.6 ac.ft.	8.87 cfs @ 185 min. w/4.4 ac.ft.	13.12 cfs @ 180 min. w/6.6 ac.ft.	22.77 cfs @ 180 min. w/11.4 ac.ft.
L	11.97 cfs @ 160 min.	33.58 cfs @ 160 min.	48.55 cfs @ 160 min.	83.21 cfs @ 155 min.
M	20.12 cfs @ 170 min.	50.76 cfs @ 170 min.	72.47 cfs @ 165 min.	120.22 cfs @ 165 min.
N	36.35 cfs @ 150 min.	82.24 cfs @ 150 min.	111.54 cfs @ 150 min.	174.64 cfs @ 150 min.
O	5.15 cfs @ 150 min.	12.08 cfs @ 150 min.	16.96 cfs @ 145 min.	27.45 cfs @ 145 min.
P	7.28 cfs @ 185 min.	31.53 cfs @ 405 min.	62.31 cfs @ 405 min.	125.32 cfs @ 410 min.
Q	2.23 cfs @ 150 min.	5.48 cfs @ 150 min.	7.63 cfs @ 150 min.	12.16 cfs @ 150 min.
R	5.13 cfs @ 150 min.	8.44 cfs @ 150 min.	10.90 cfs @ 150 min.	31.06 cfs @ 145 min.
S	54.18 cfs @ 155 min.	129.91 cfs @ 150 min.	183.30 cfs @ 150 min.	301.32 cfs @ 150 min.
T	6.30 cfs @ 165 min.	17.52 cfs @ 165 min.	25.68 cfs @ 160 min.	43.91 cfs @ 160 min.
U	65.57 cfs @ 170 min.	168.55 cfs @ 160 min.	243.32 cfs @ 160 min.	415.60 cfs @ 160 min.
V	65.57 cfs @ 170 min.	168.55 cfs @ 160 min.	243.32 cfs @ 160 min.	415.60 cfs @ 160 min.

Paradise Pond Outlet; One 30-inch pipe under inlet conditions:

1.42 cfs @ 170 min. w/14.2ac.ft.	6.73 cfs @ 160 min. w/35.7ac.ft.	11.79 cfs @ 160 min. w/55.6ac.ft.	18.52 cfs @ 160 min. w/105.2ac.ft.
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TABLE E-3

CONDITION NO. 5 WITH 24-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 24-Hour</u>	<u>25-Year 24-Hour</u>	<u>50-Year 24-Hour</u>	<u>100-Year 24-Hour</u>
A	61.48 cfs @ 730 min.	158.82 cf @ 730 min.	237.00 cfs @ 730 min.	278.60 cfs @ 730 min.
B	54.62 cfs @ 745 min.	143.92 cfs @ 740 min.	217.10 cfs @ 740 min.	256.20 cfs @ 740 min.
C	14.36 cfs @ 720 min.	41.29 cfs @ 720 min.	63.42 cfs @ 720 min.	75.30 cfs @ 720 min.
D	104.77 cfs @ 725 min.	241.01 cfs @ 725 min.	348.08 cfs @ 725 min.	404.57 cfs @ 725 min.
E	121.82 cfs @ 760 min.	291.19 cfs @ 755 min.	425.59 cfs @ 755 min.	496.81 cfs @ 755 min.
F	110.52 cfs @ 720 min.	258.26 cfs @ 720 min.	373.59 cfs @ 720 min.	434.25 cfs @ 720 min.
G	139.30 cfs @ 850 min.	326.44 cfs @ 850 min.	474.56 cfs @ 850 min.	552.88 cfs @ 850 min.
H	19.74 cfs @ 720 min.	52.44 cfs @ 720 min.	78.85 cfs @ 720 min.	92.93 cfs @ 720 min.
I	151.41 cfs @ 735 min.	351.63 cfs @ 735 min.	512.01 cfs @ 735 min.	598.45 cfs @ 730 min.
J	80.99 cfs @ 725 min.	176.79 cfs @ 720 min.	253.47 cfs @ 720 min.	293.67 cfs @ 720 min.
Evans	111.33 cfs @ 735 min.	234.09 cfs @ 735 min.	396.26 cfs @ 735 min.	404.61 cfs @ 730 min.
Split Box	110.68 cfs @ 970 min.	231.80 cfs @ 970 min.	395.52 cfs @ 960 min.	404.27 cfs @ 970 min.
Freeway	53.45 cfs @ 820 min.	60.72 cfs @ 790 min.	93.12 cfs @ 740 min.	112.07 cfs @ 740 min.

TABLE E-3 (con't)

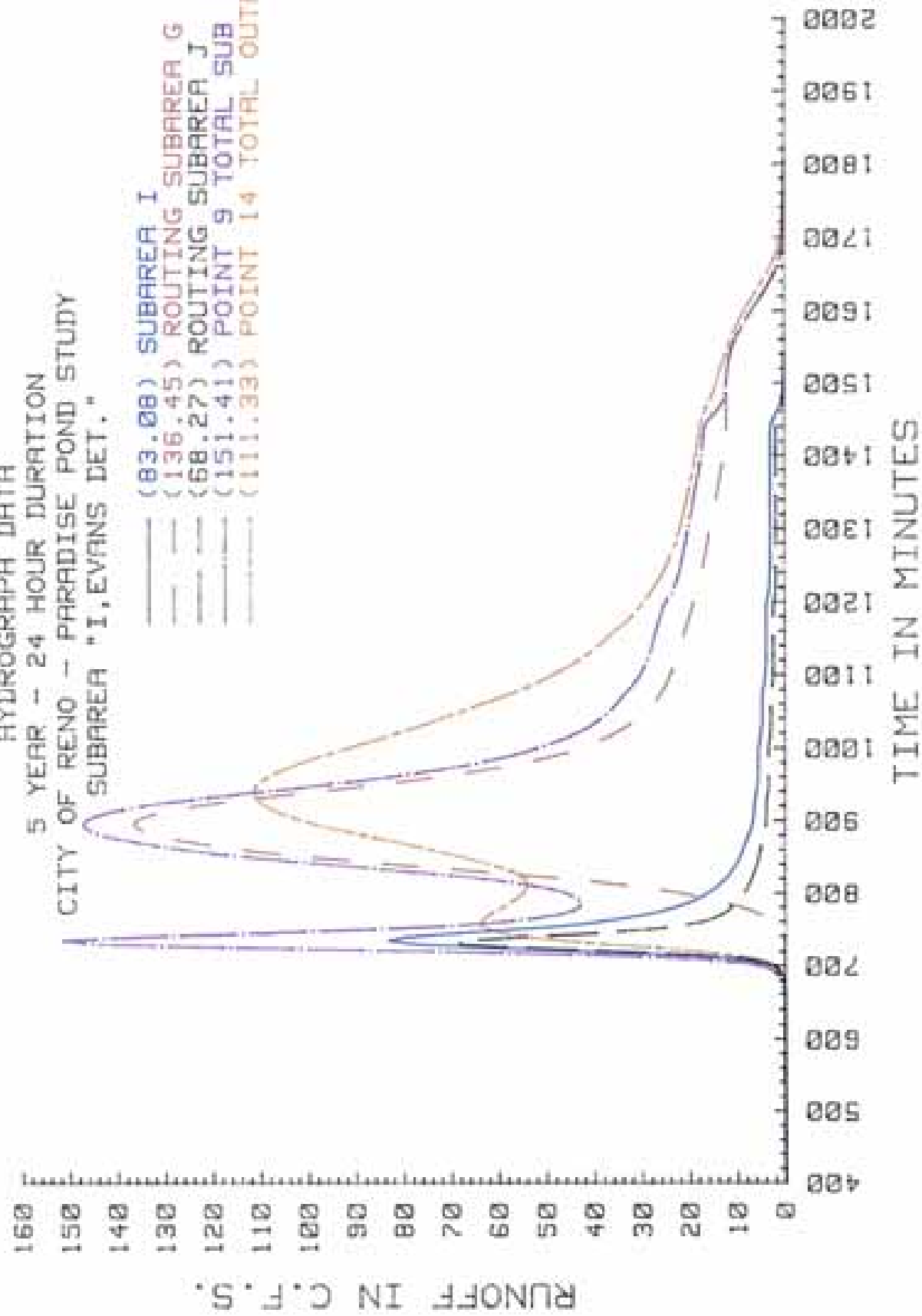
Subarea Totals	5-Year 24-Hour	25-Year 24-Hour	50-Year 24-Hour	100-Year 24-Hour
K	75.30 cfs @ 745 min.	209.81 cfs @ 745 min.	320.32 cfs @ 745 min.	379.60 cfs @ 745 min.
L	81.76 cfs @ 730 min.	179.30 cfs @ 725 min.	254.81 cfs @ 725 min.	294.47 cfs @ 725 min.
M	106.03 cfs @ 735 min.	223.01 cfs @ 735 min.	312.42 cfs @ 735 min.	359.18 cfs @ 735 min.
N	201.78 cfs @ 720 min.	425.35 cfs @ 720 min.	603.78 cfs @ 720 min.	680.65 cfs @ 720 min.
O	35.20 cfs @ 720 min.	70.00 cfs @ 720 min.	95.73 cfs @ 720 min.	108.98 cfs @ 720 min.
P	63.89 cfs @ 970 min.	187.69 cfs @ 970 min.	353.48 cfs @ 960 min.	363.11 cfs @ 965 min.
Q	14.88 cfs @ 720 min.	30.18 cfs @ 720 min.	41.59 cfs @ 720 min.	47.48 cfs @ 720 min.
R	37.09 cfs @ 720 min.	68.34 cfs @ 720 min.	90.86 cfs @ 720 min.	102.36 cfs @ 720 min.
S	311.01 cfs @ 720 min.	668.50 cfs @ 720 min.	950.85 cfs @ 720 min.	1082.38 cfs @ 720 min.
T	42.17 cfs @ 730 min.	91.89 cfs @ 730 min.	129.91 cfs @ 730 min.	149.74 cfs @ 730 min.
U	385.59 cfs @ 730 min.	844.81 cfs @ 730 min.	1181.15 cfs @ 730 min.	1357.71 cfs @ 730 min.
V	385.59 cfs @ 730 min.	851.07 cfs @ 730 min.	1204.44 cfs @ 730 min.	1392.94 cfs @ 730 min.

Paradise Pond Outlet; the minimum size pipe under inlet conditions to keep from overflowing Paradise Pond:

1-30" pipe	2-60" pipes	3-66" pipes	4-66" pipes
12.80 cfs @ 730 min.	133.10 cfs @ 730 min.	272.07 cfs @ 730 min.	361.20 cfs @ 730 min.
w/59.7ac.ft.	w/108.6ac.ft.	w/126.6ac.ft.	w/126.1ac.ft.

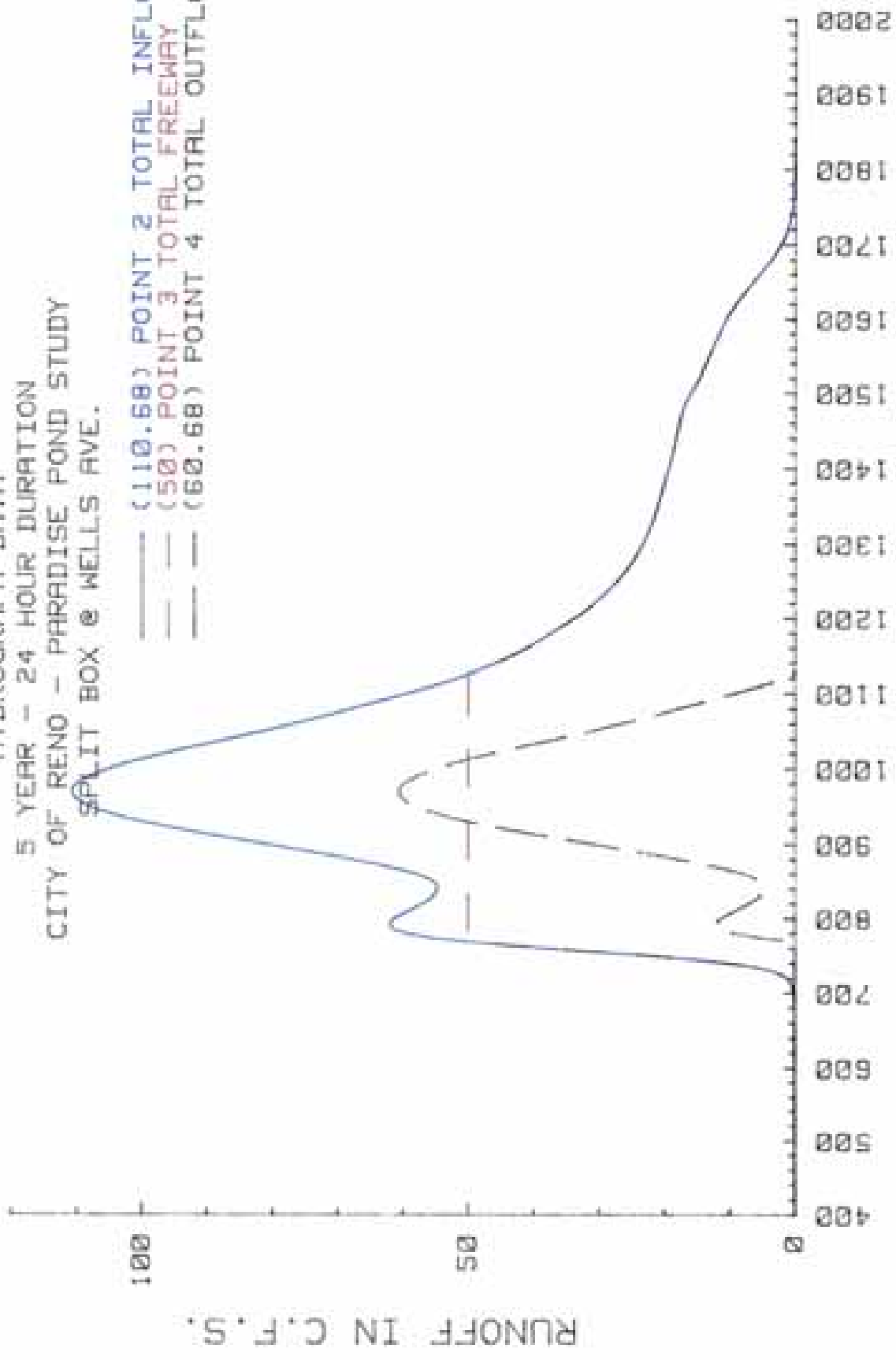
HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "I, EVANS DET."

—	(83.08)	SUBAREA I
---	(136.45)	ROUTING SUBAREA G
---	(68.27)	ROUTING SUBAREA J
---	(151.41)	POINT 9 TOTAL SUB I
---	(111.33)	POINT 14 TOTAL OUTFLOW



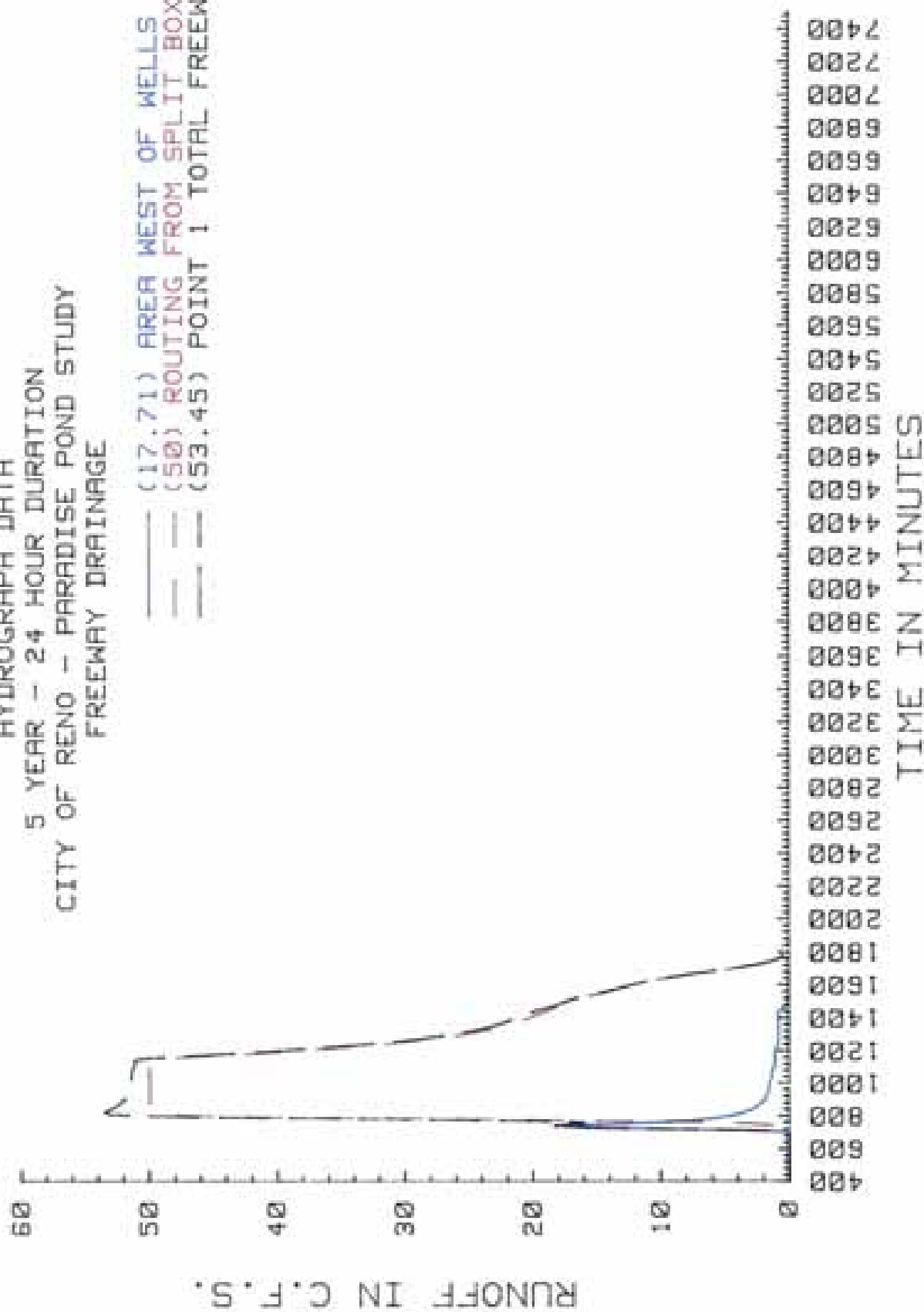
HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SPLIT BOX @ WELLS AVE.

_____ (110.68) POINT 2 TOTAL INFLOW
 - - - - - (50) POINT 3 TOTAL FREEWAY
 - - - - - (60.68) POINT 4 TOTAL OUTFLOW

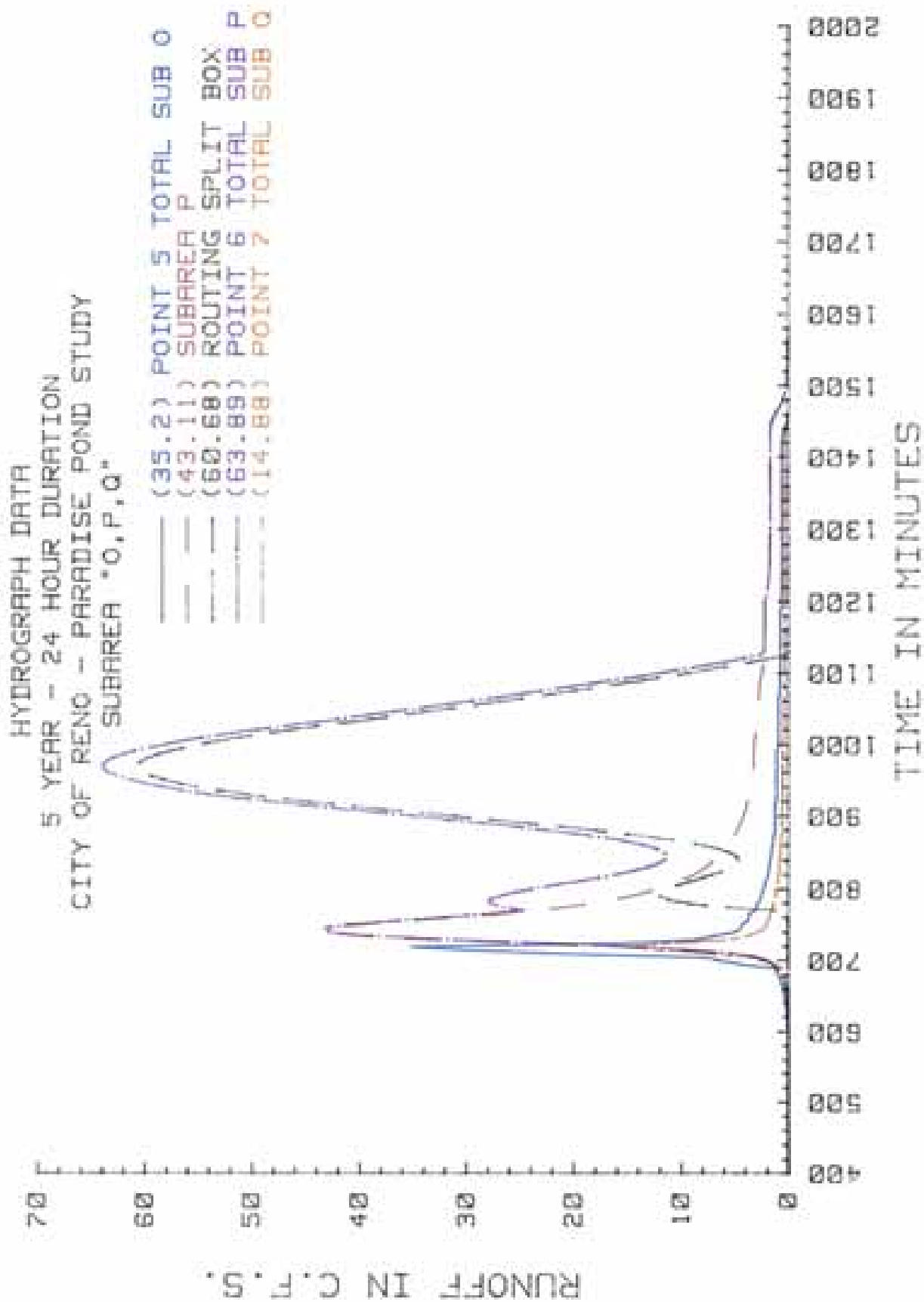


HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

— (17.71) AREA WEST OF WELLS
 - - (50) ROUTING FROM SPLIT BOX
 - - (53.45) POINT 1 TOTAL FREEWAY

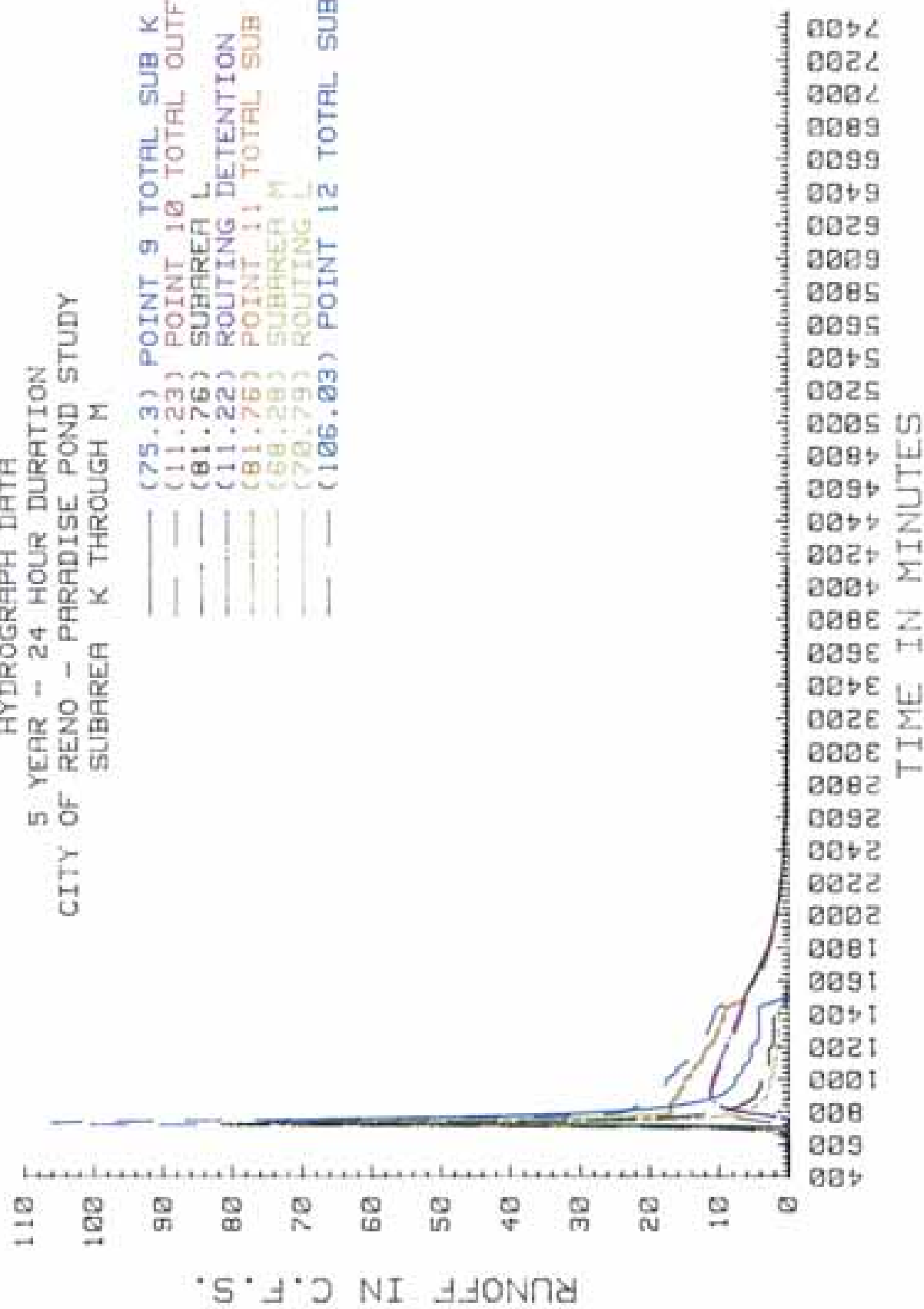


17.71 AREA WEST OF WELLS
 50 ROUTING FROM SPLIT BOX
 53.45 POINT 1 TOTAL FREEWAY



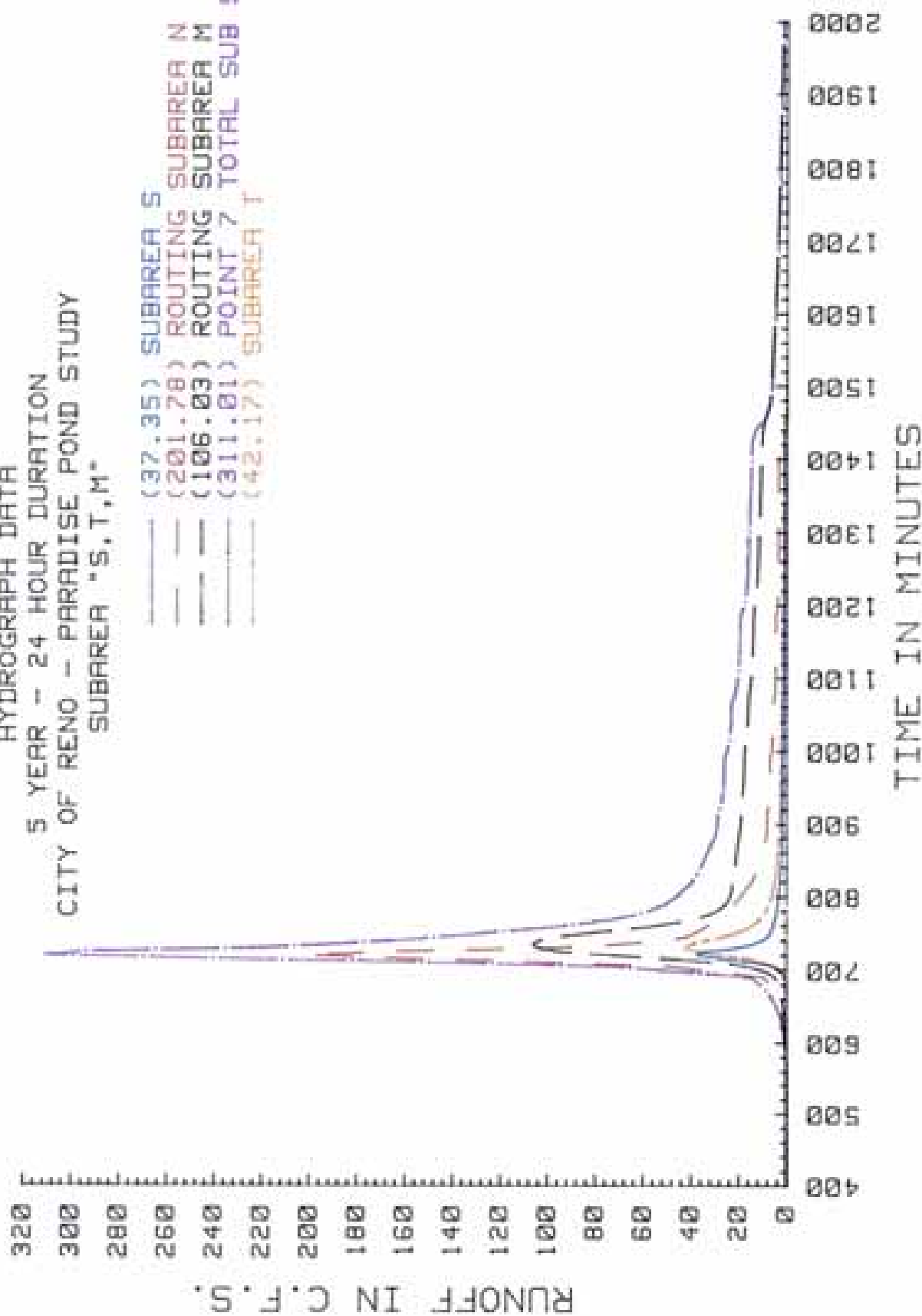
HYDROGRAPH DATA
 5 YEAR -- 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA K THROUGH M

---	(75.3) POINT 9 TOTAL SUB K
---	(11.23) POINT 10 TOTAL OUTFLOW
---	(81.76) SUBAREA L
---	(11.22) ROUTING DETENTION
---	(81.76) POINT 11 TOTAL SUB L
---	(68.28) SUBAREA M
---	(70.79) ROUTING L
---	(106.03) POINT 12 TOTAL SUB M



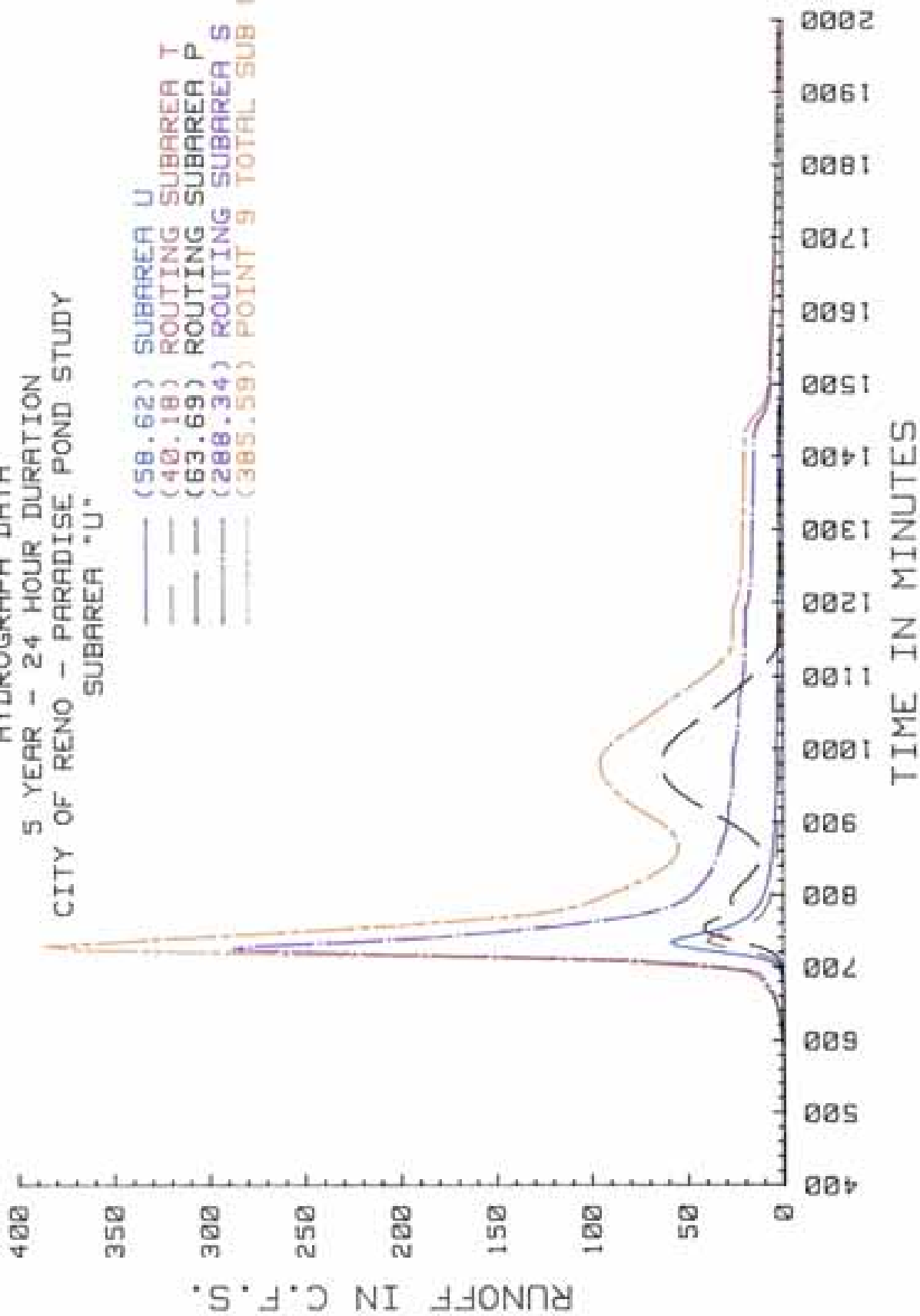
HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S.T.M."

- (37.35) SUBAREA S
- (201.78) ROUTING SUBAREA N
- (106.03) ROUTING SUBAREA M
- (311.01) POINT 7 TOTAL SUB S
- (42.17) SUBAREA T



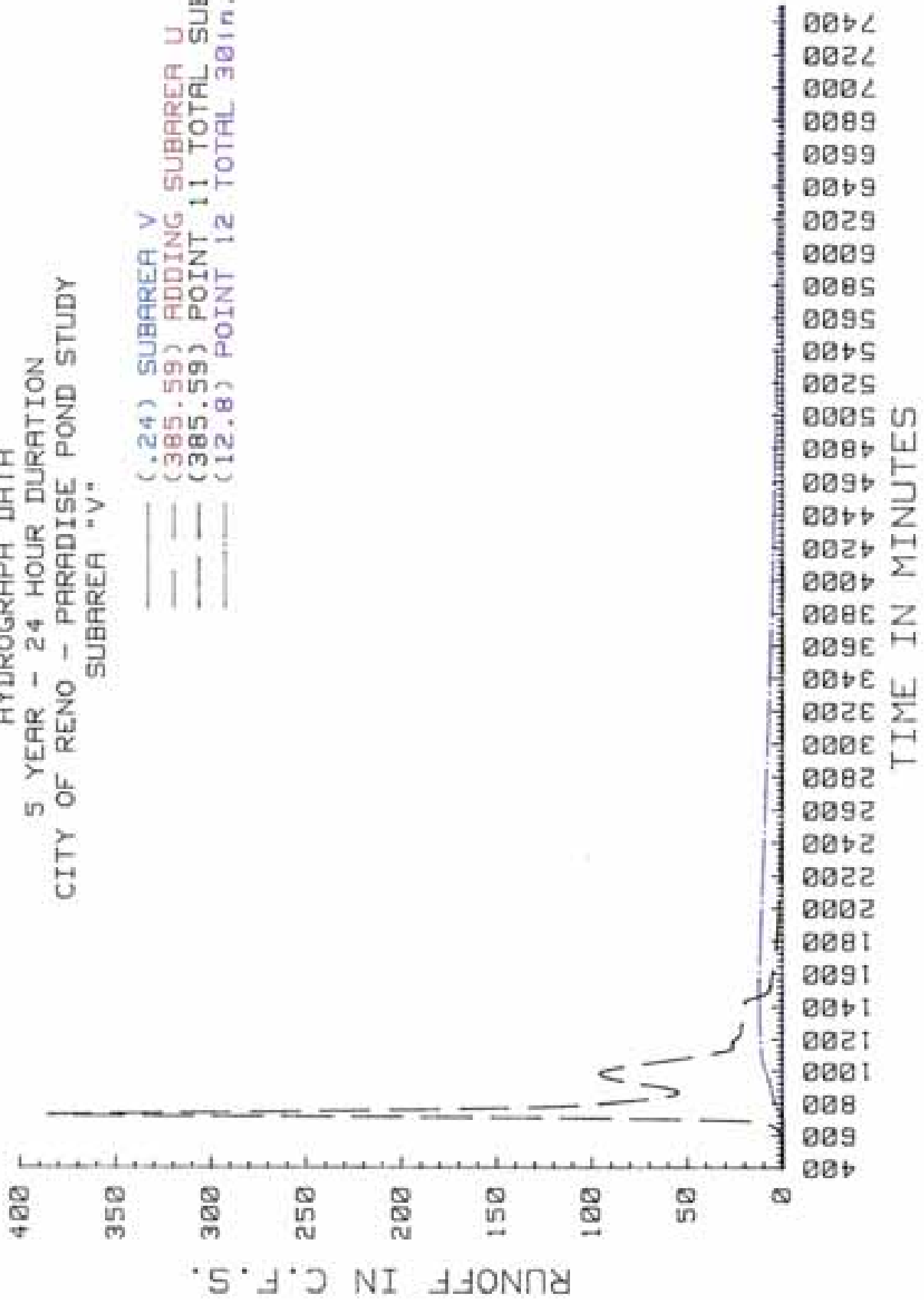
HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "U"

(58.62) SUBAREA U
(40.18) ROUTING SUBAREA T
(63.69) ROUTING SUBAREA P
(288.34) ROUTING SUBAREA S
(385.59) POINT 9 TOTAL SUB U

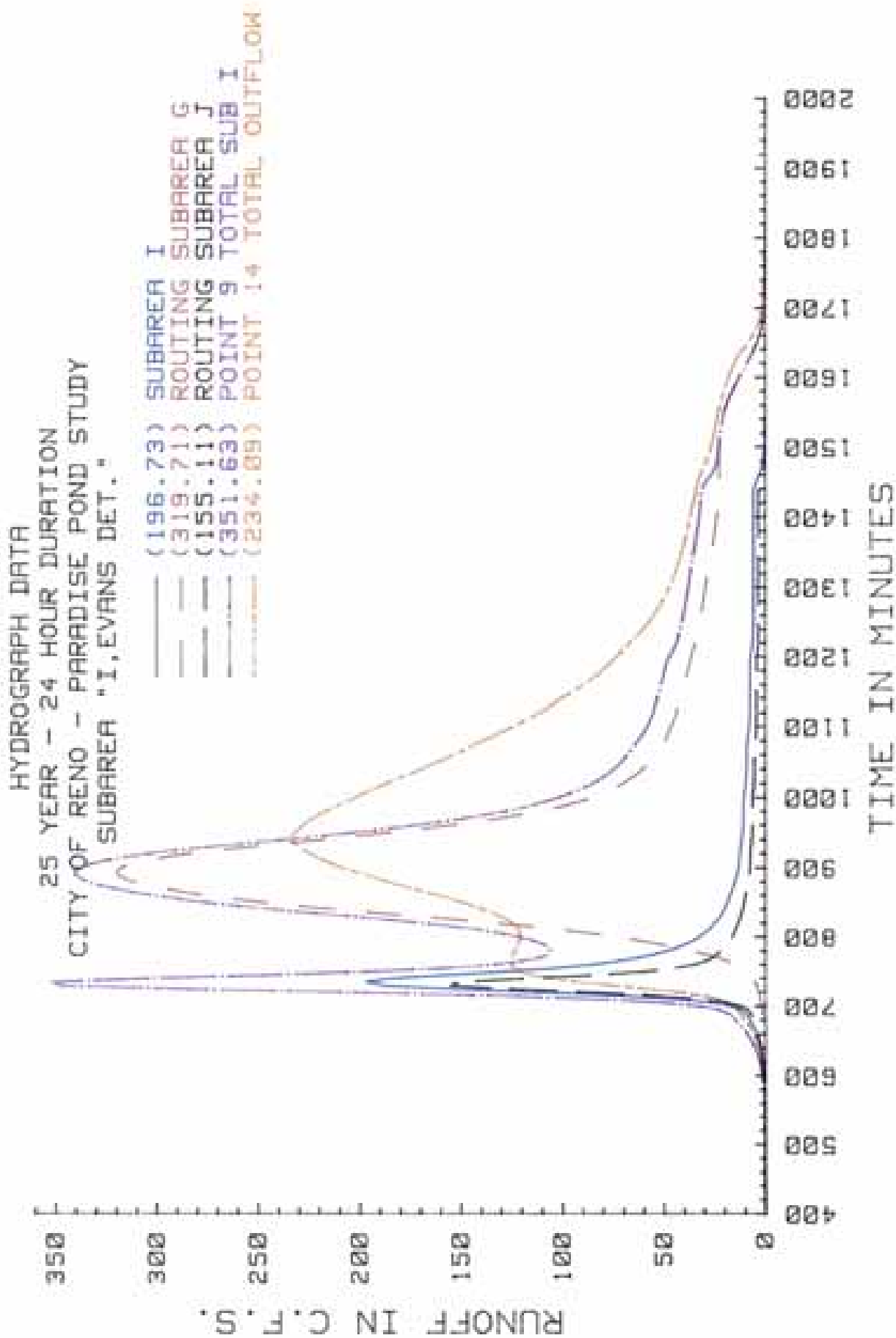


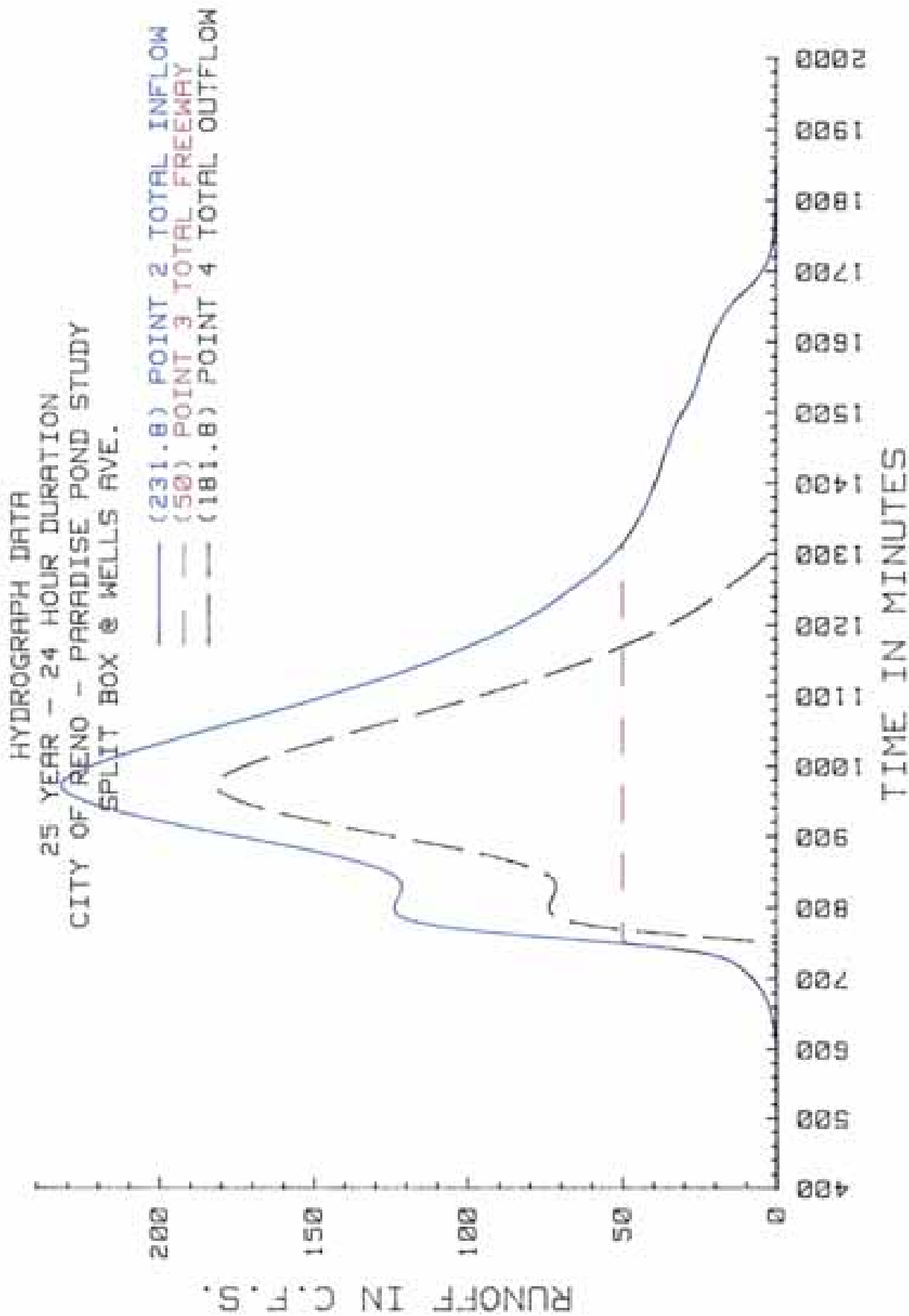
HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

--- (.24) SUBAREA V
 --- (385.59) ADDING SUBAREA U
 --- (385.59) POINT 11 TOTAL SUB V
 --- (12.8) POINT 12 TOTAL 30in. OUTF



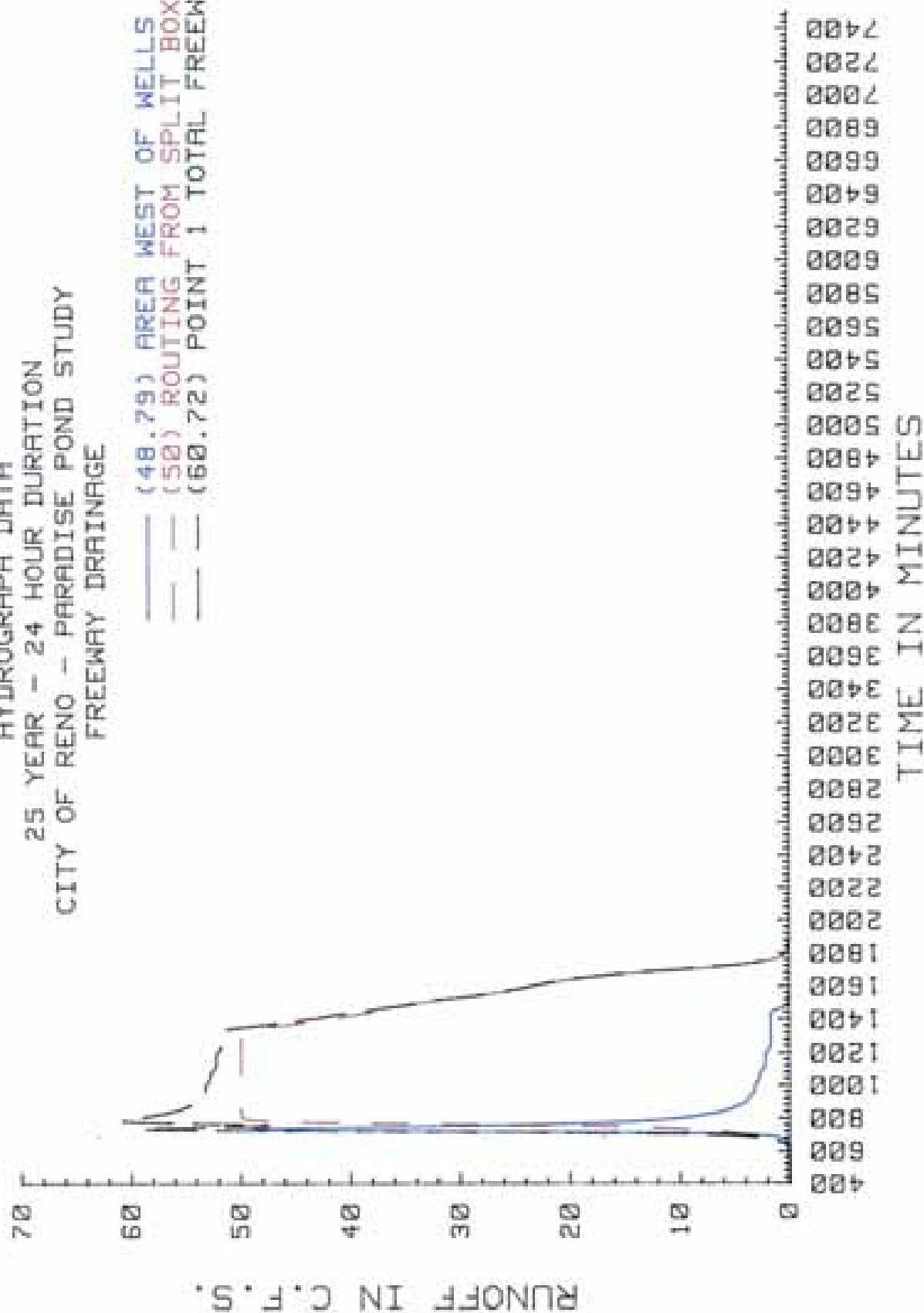
TIME IN MINUTES





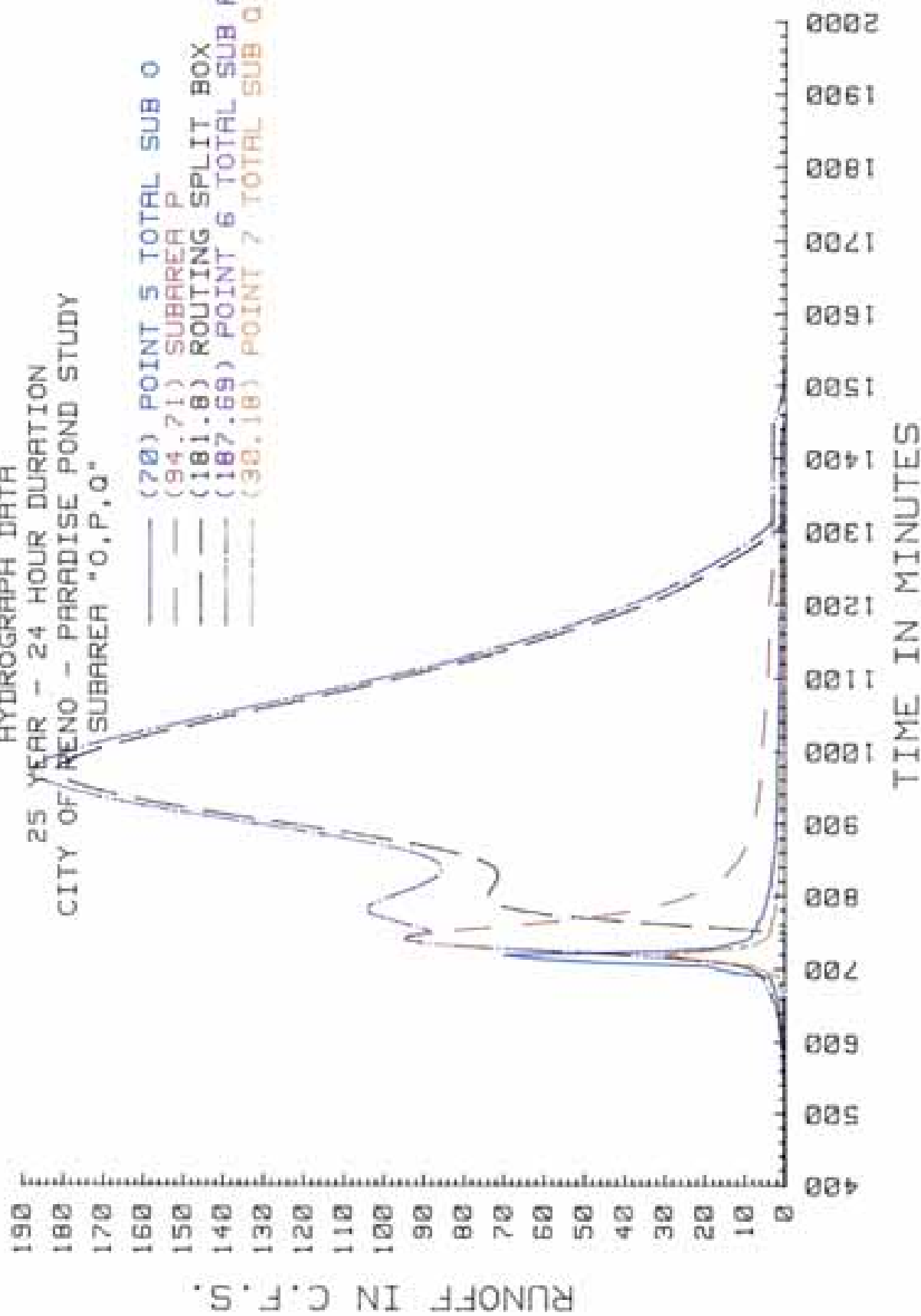
HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

— (48.79) AREA WEST OF WELLS
— (50) ROUTING FROM SPLIT BOX
— (60.72) POINT 1 TOTAL FREEWAY



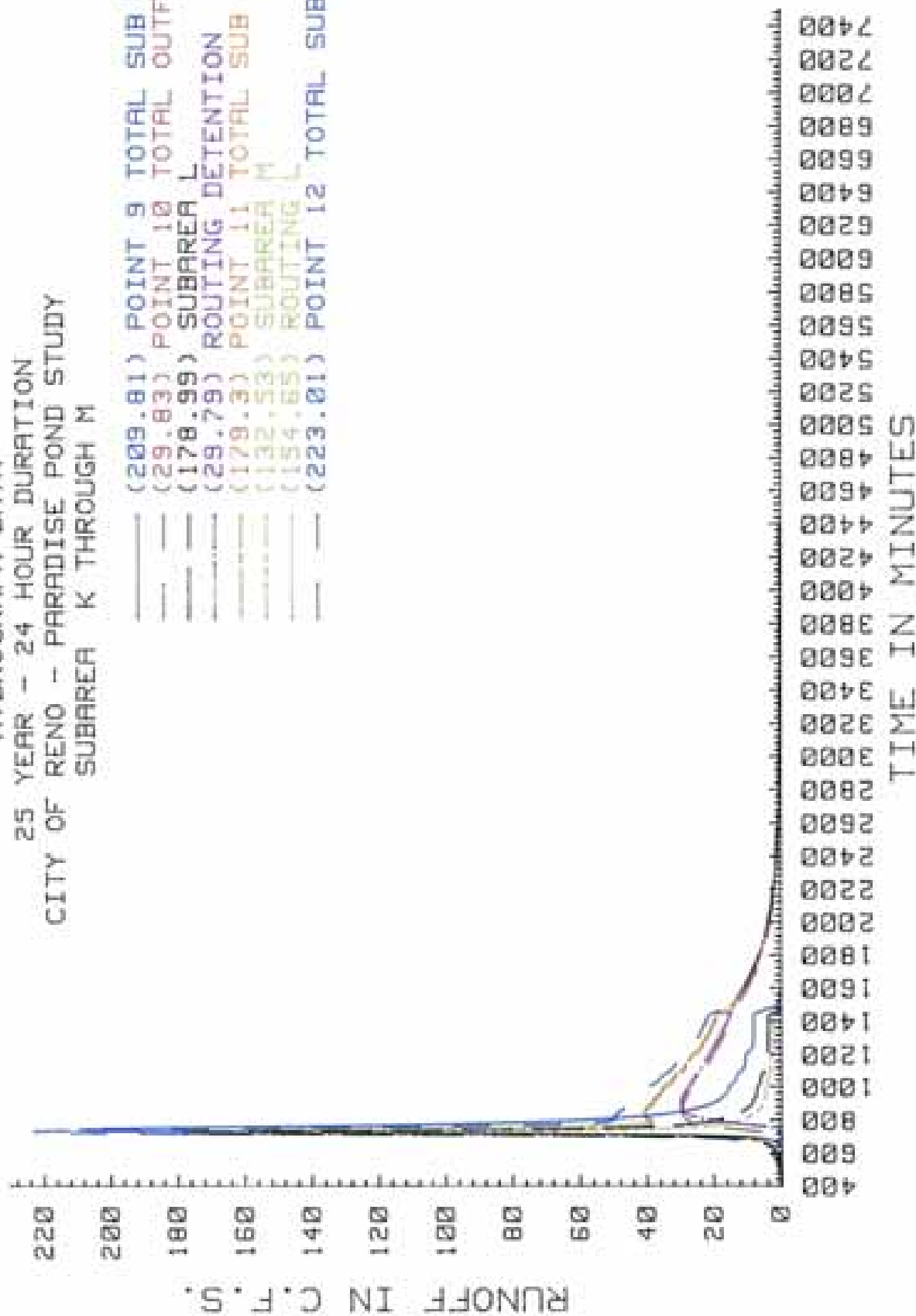
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "O.P.Q."

(70) POINT 5 TOTAL SUB O
(94.71) SUBAREA P
(181.8) ROUTING SPLIT BOX
(187.69) POINT 6 TOTAL SUB P
(38.18) POINT 7 TOTAL SUB Q

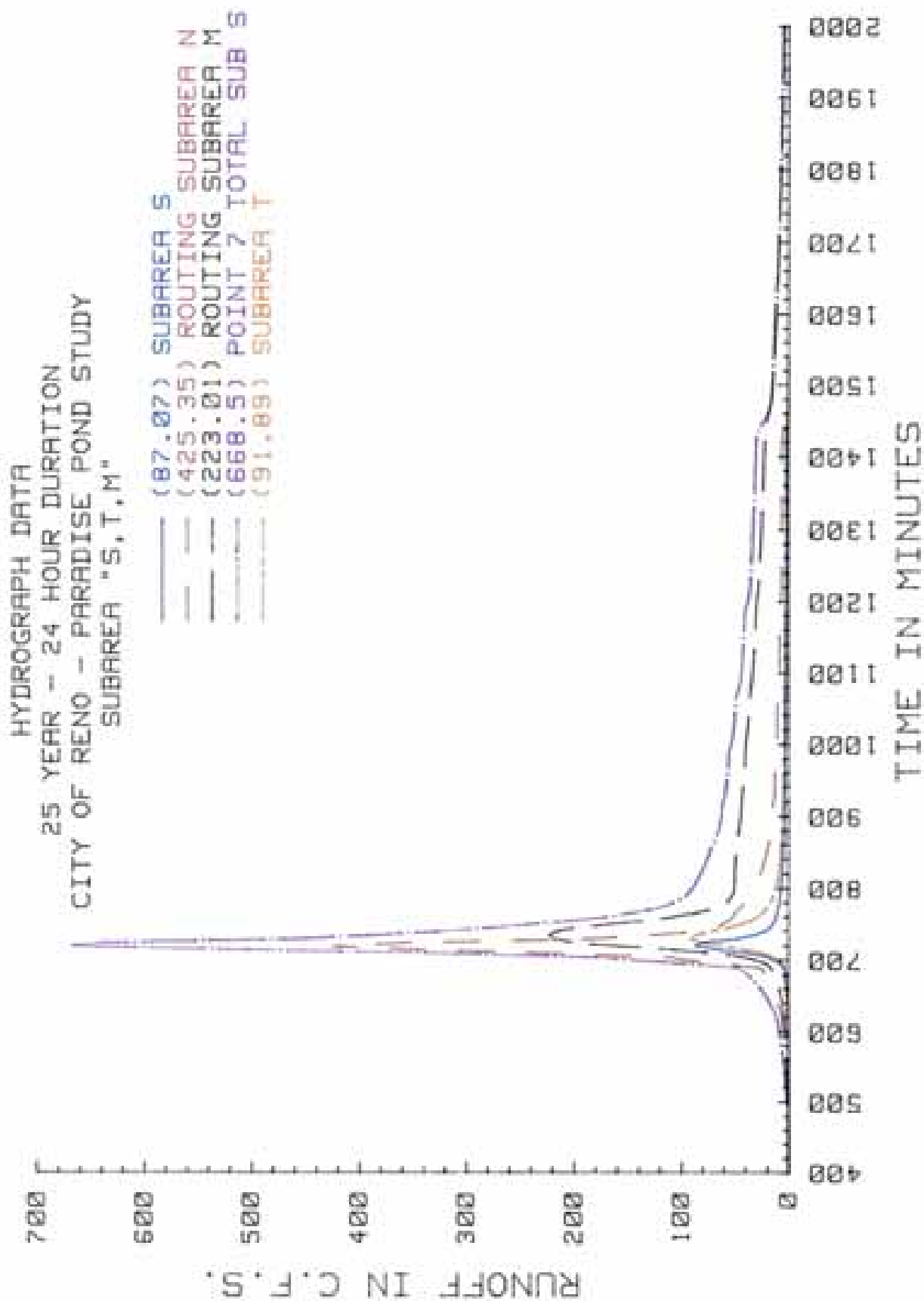


HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA K THROUGH M

(209.81) POINT 9 TOTAL SUB K
 (29.83) POINT 10 TOTAL OUTFLOW
 (178.99) SUBAREA L
 (29.79) ROUTING DETENTION
 (179.3) POINT 11 TOTAL SUB L
 (132.53) SUBAREA M
 (154.65) ROUTING L
 (223.01) POINT 12 TOTAL SUB M

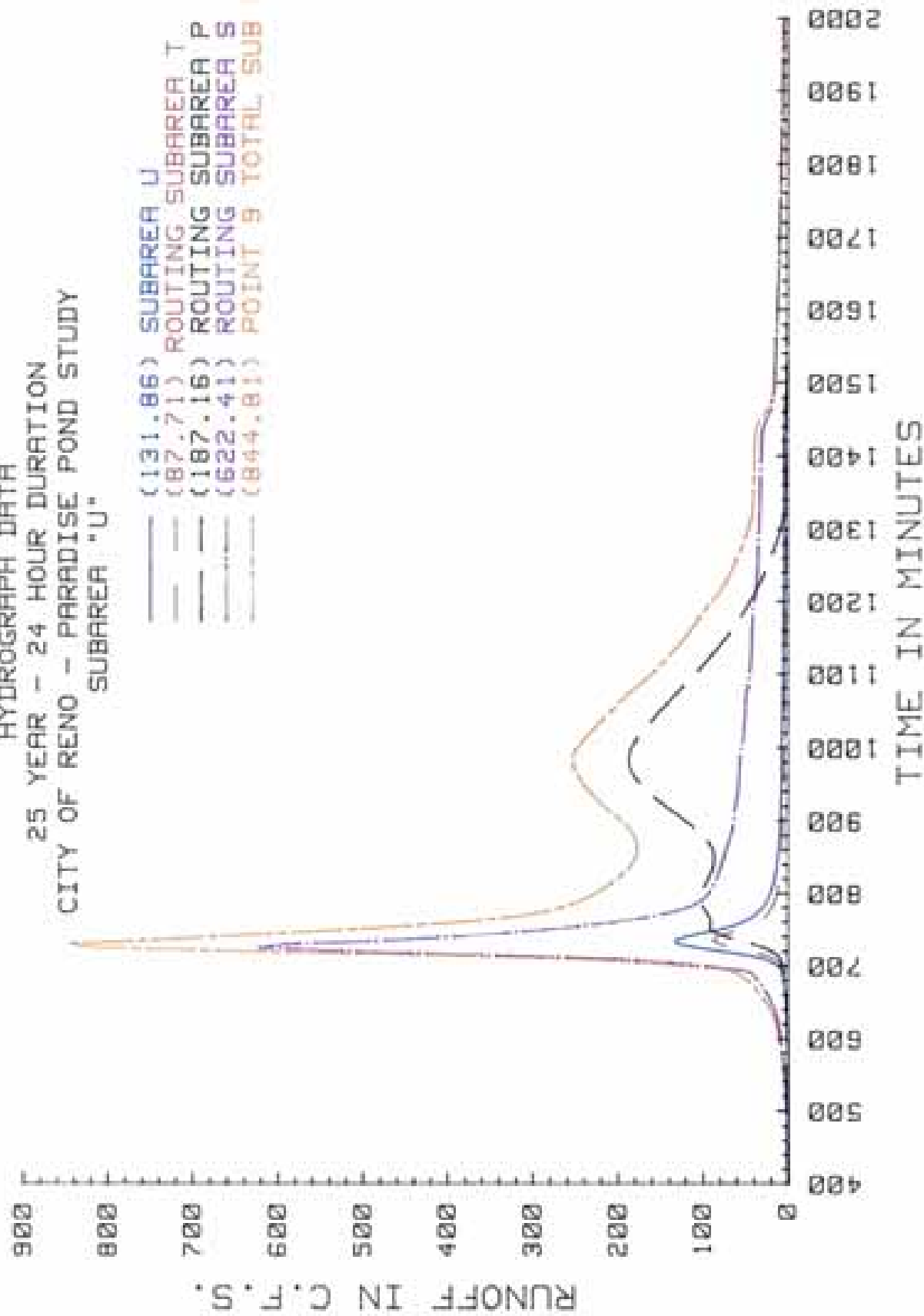


TIME IN MINUTES



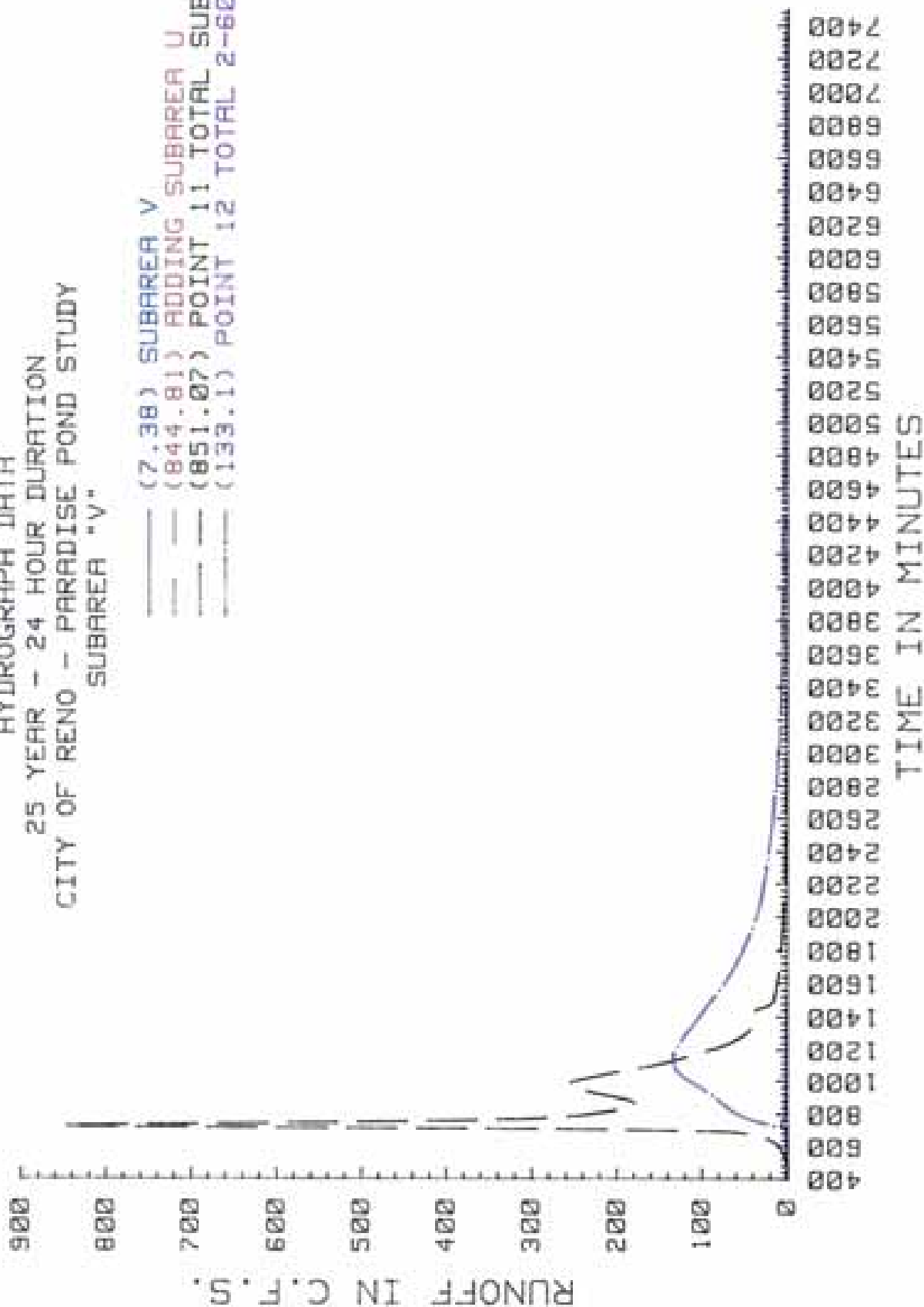
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "U"

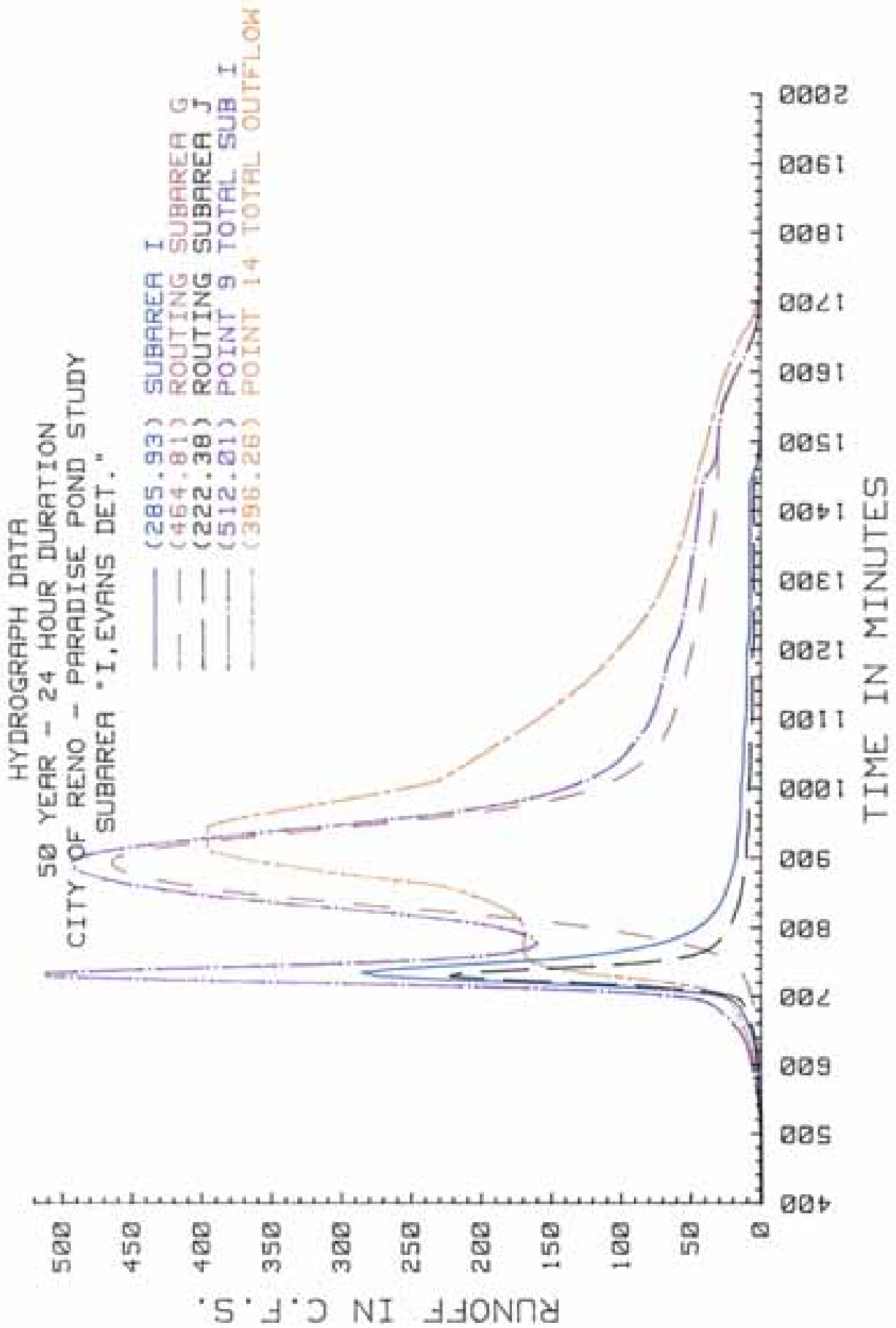
- (131.86) SUBAREA U
- (87.71) ROUTING SUBAREA T
- (187.16) ROUTING SUBAREA P
- (622.41) ROUTING SUBAREA S
- (844.81) POINT 9 TOTAL SUB U

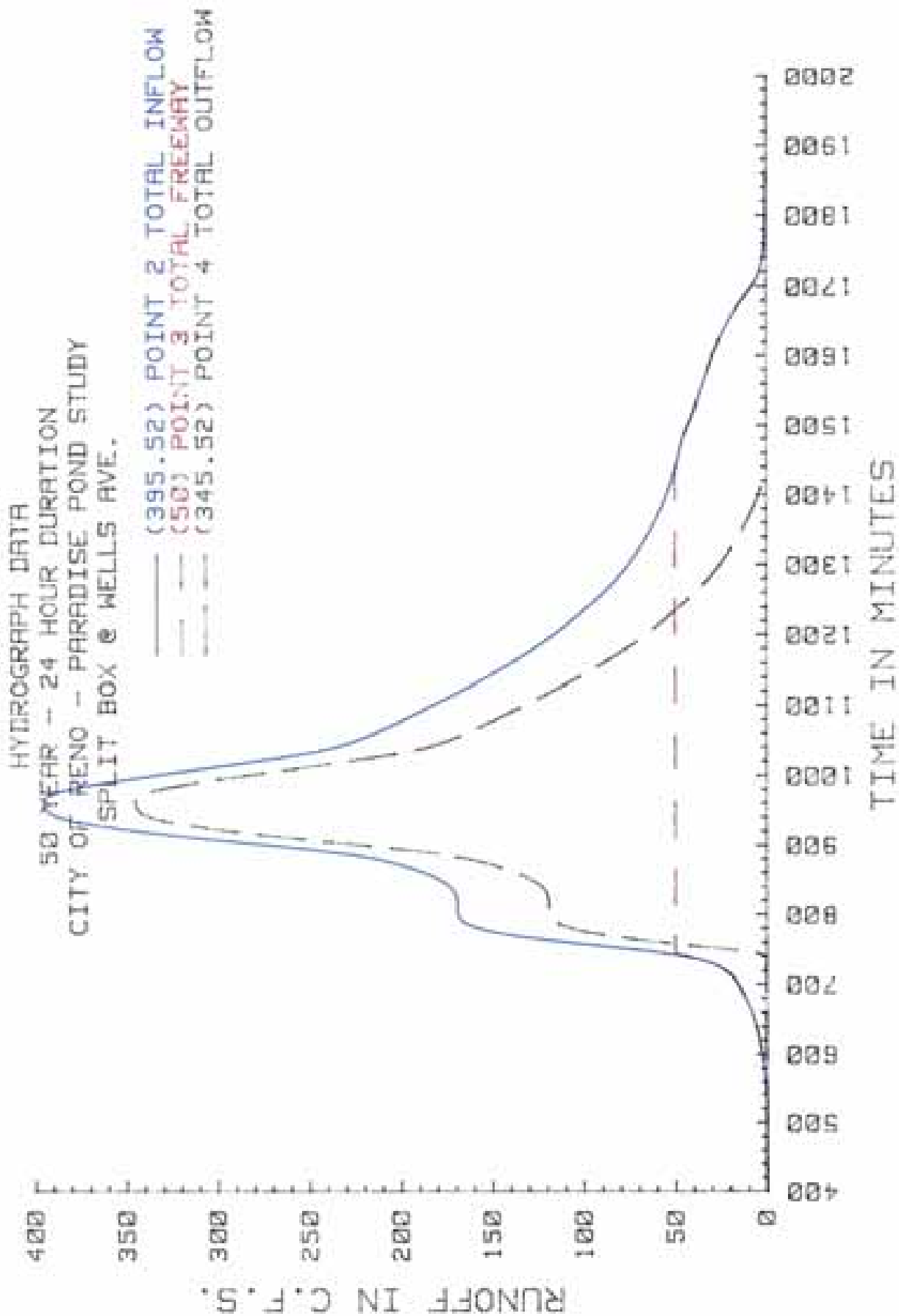


HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

--- (7.38) SUBAREA V
 --- (844.81) ADDING SUBAREA U
 --- (851.07) POINT 11 TOTAL SUB V
 --- (133.1) POINT 12 TOTAL 2-60 OUTF

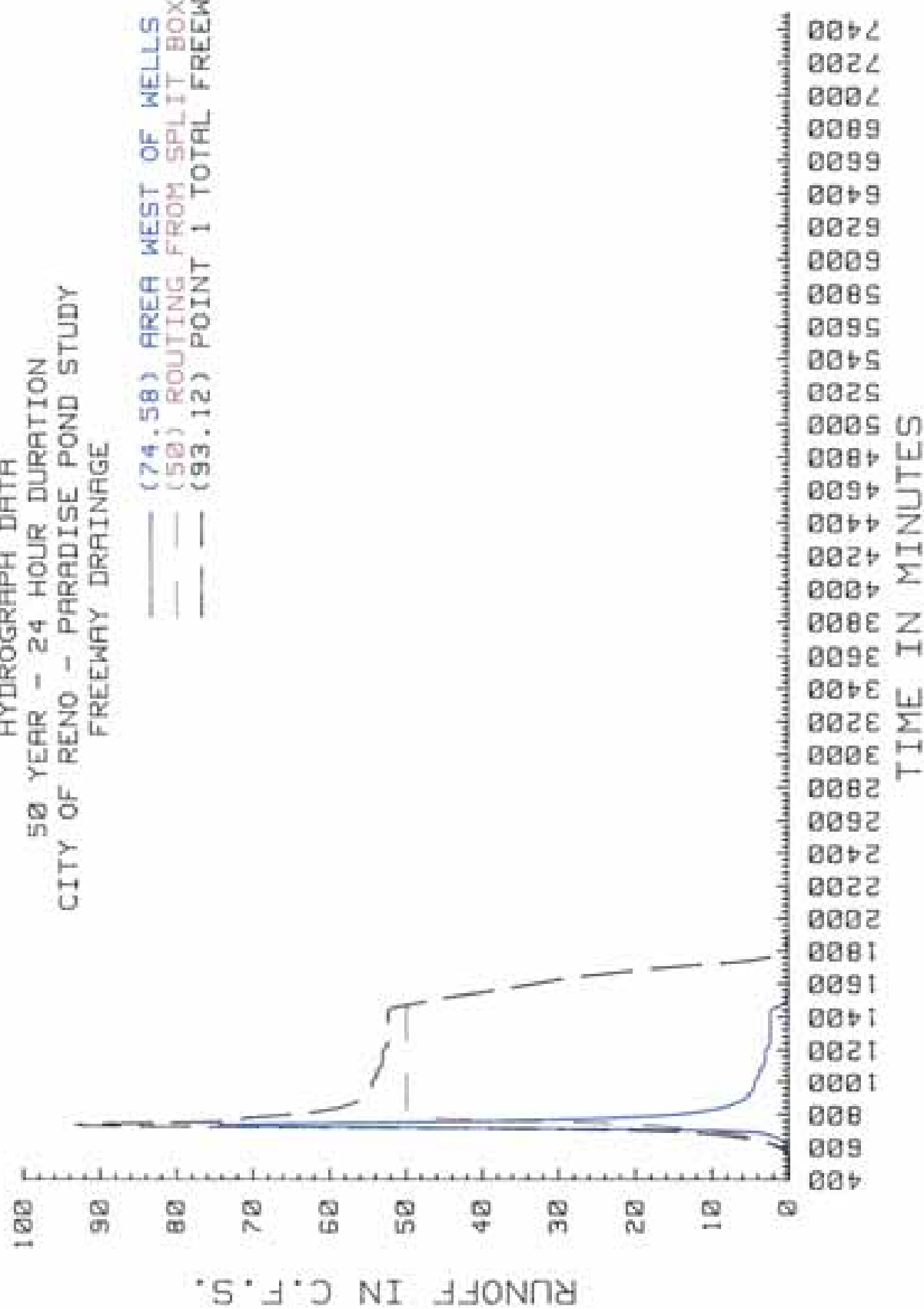






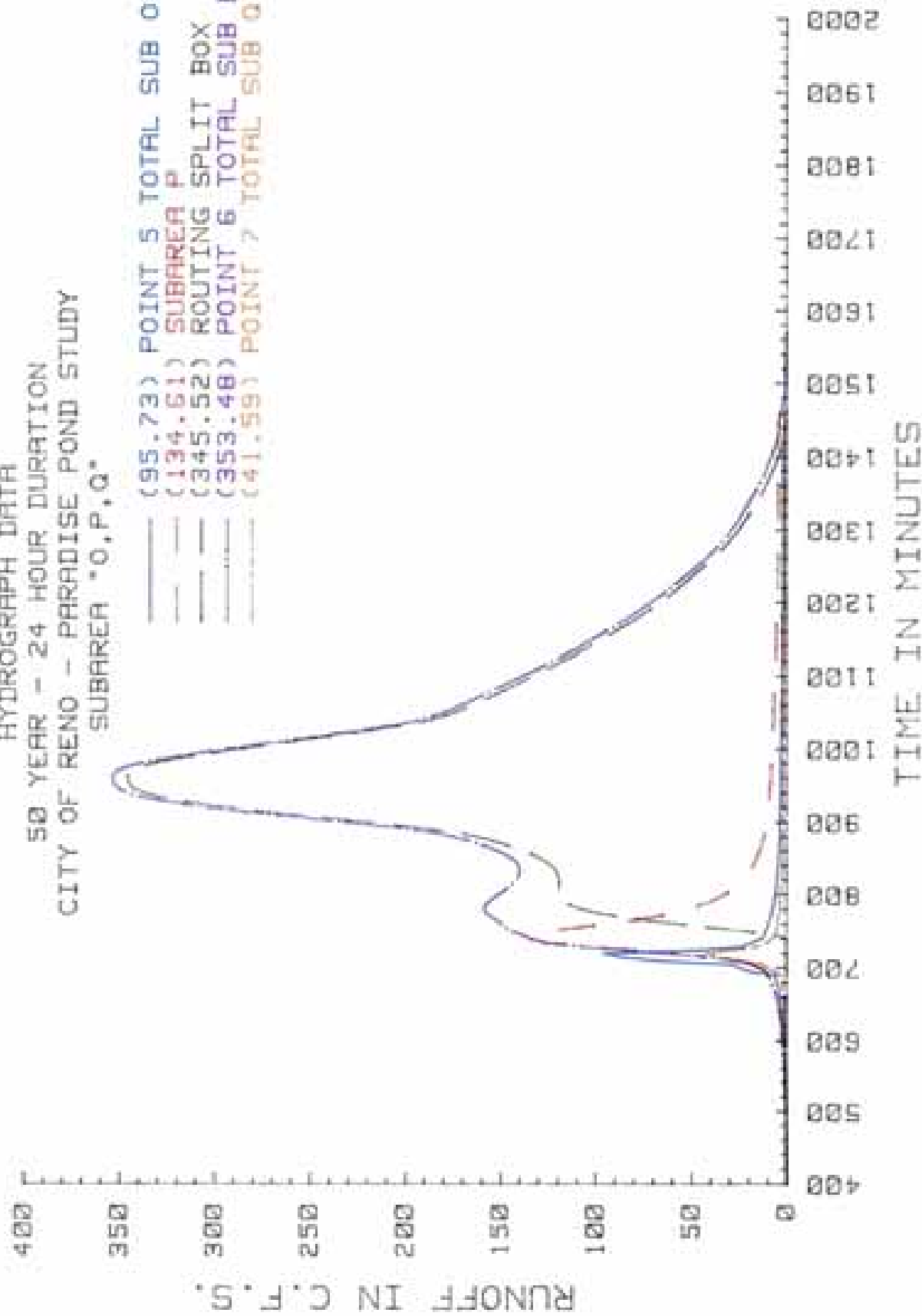
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

— (74.58) AREA WEST OF WELLS
 - - (50) ROUTING FROM SPLIT BOX
 - - (93.12) POINT 1 TOTAL FREEWAY



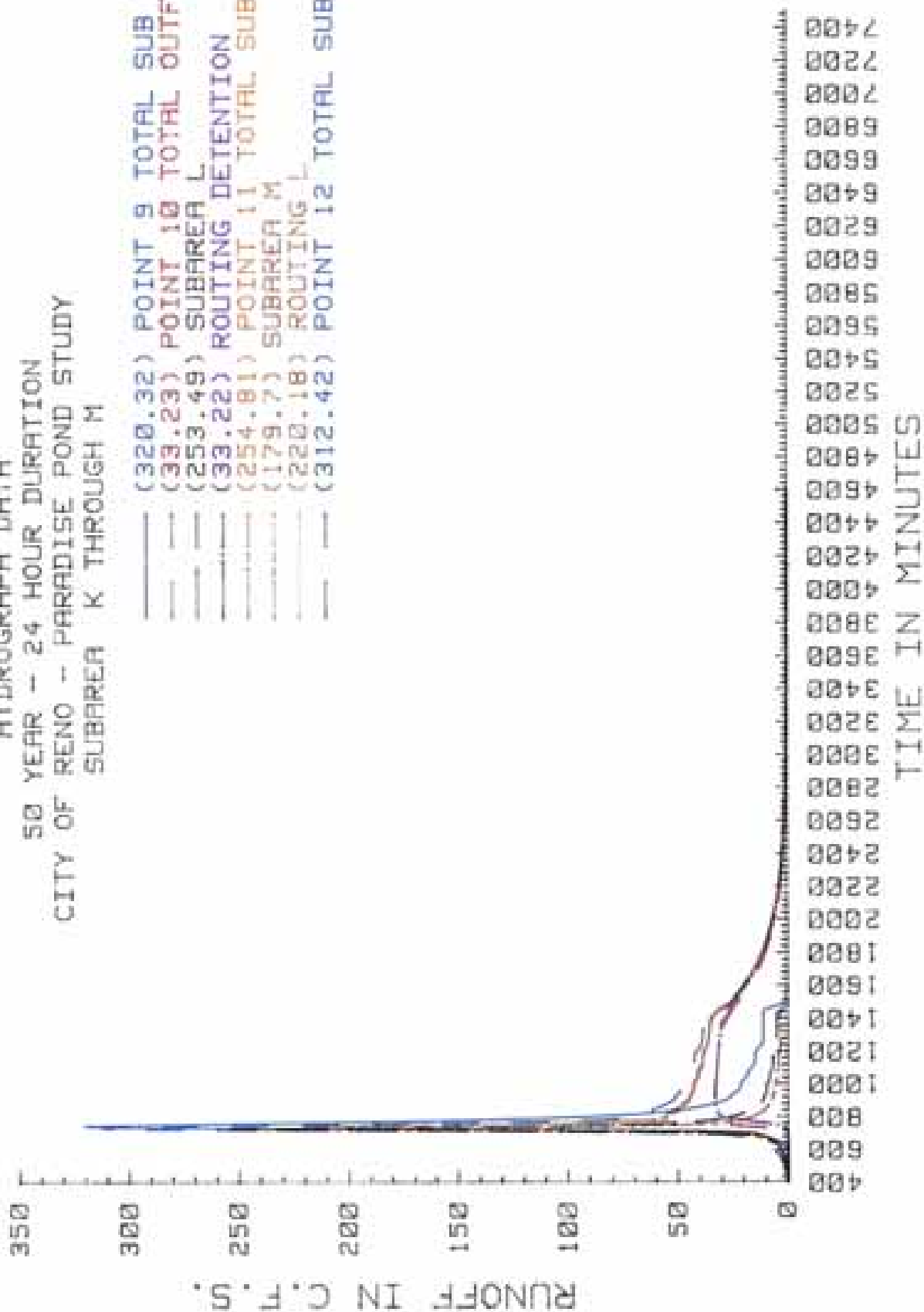
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "O.P.Q."

- (95.73) POINT 5 TOTAL SUB O
- (134.61) SUBAREA P
- (345.52) ROUTING SPLIT BOX
- (353.48) POINT 6 TOTAL SUB P
- (41.59) POINT 7 TOTAL SUB Q



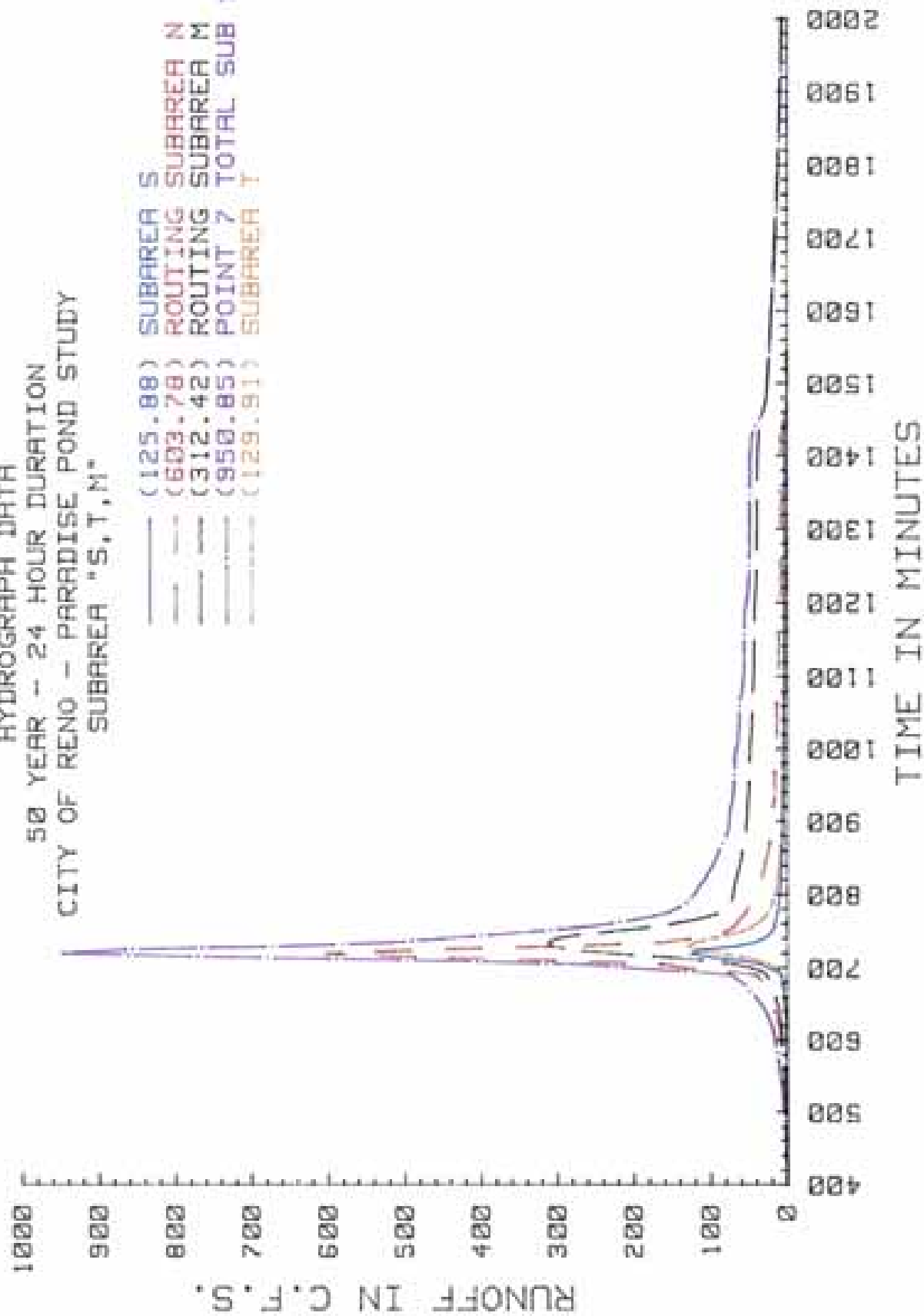
HYDROGRAPH DATA
 50 YEAR -- 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA K THROUGH M

---	(320.32)	POINT 9	TOTAL SUB K
---	(33.23)	POINT 10	TOTAL OUTFLOW
---	(253.49)	SUBAREA L	
---	(33.22)	ROUTING DETENTION	
---	(254.81)	POINT 11	TOTAL SUB L
---	(179.7)	SUBAREA M	
---	(220.18)	ROUTING L	
---	(312.42)	POINT 12	TOTAL SUB M



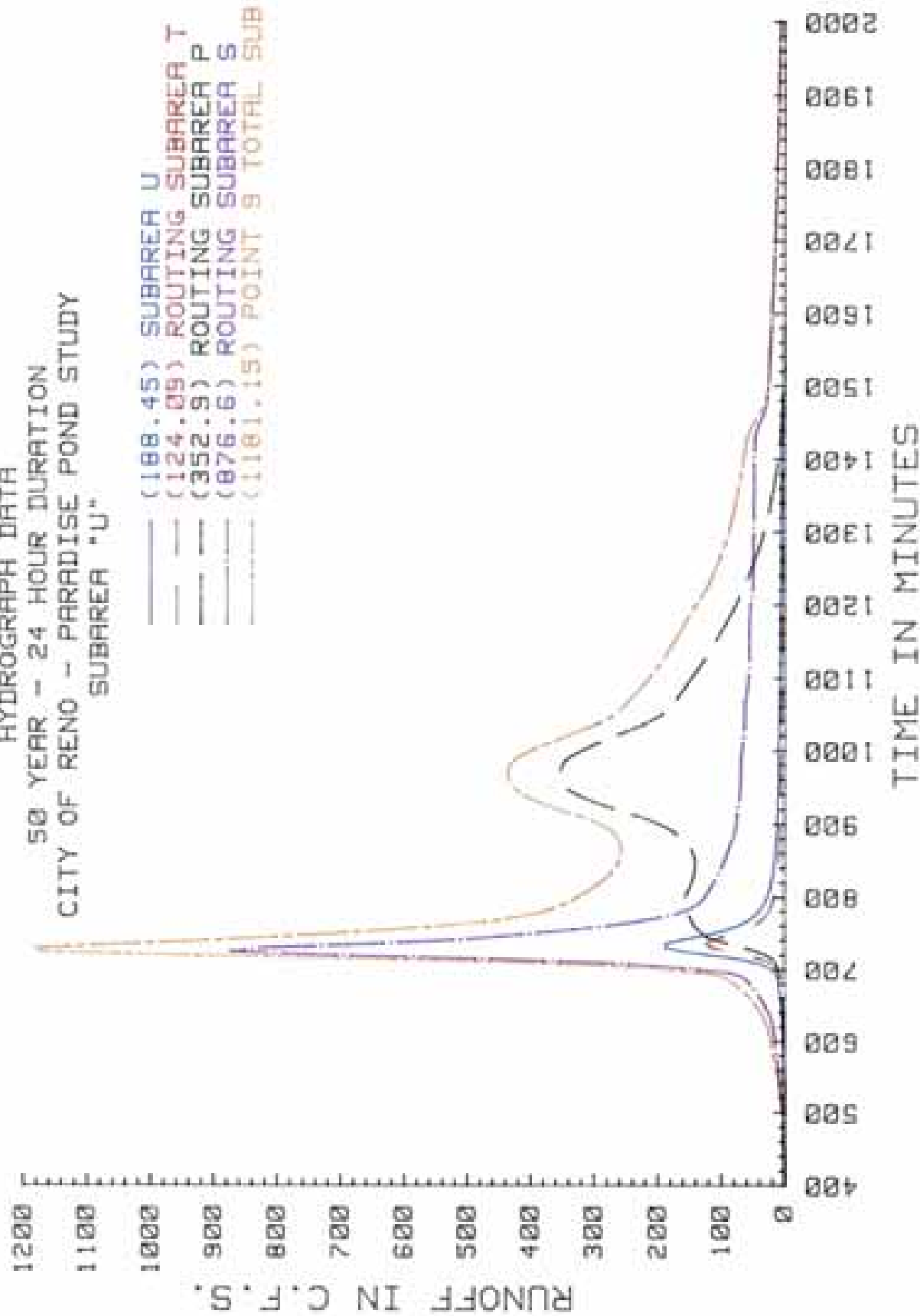
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S,T,M"

---	(125.88)	SUBAREA S
---	(603.78)	ROUTING SUBAREA N
---	(312.42)	ROUTING SUBAREA M
---	(950.85)	POINT 7 TOTAL SUB S
---	(129.91)	SUBAREA T



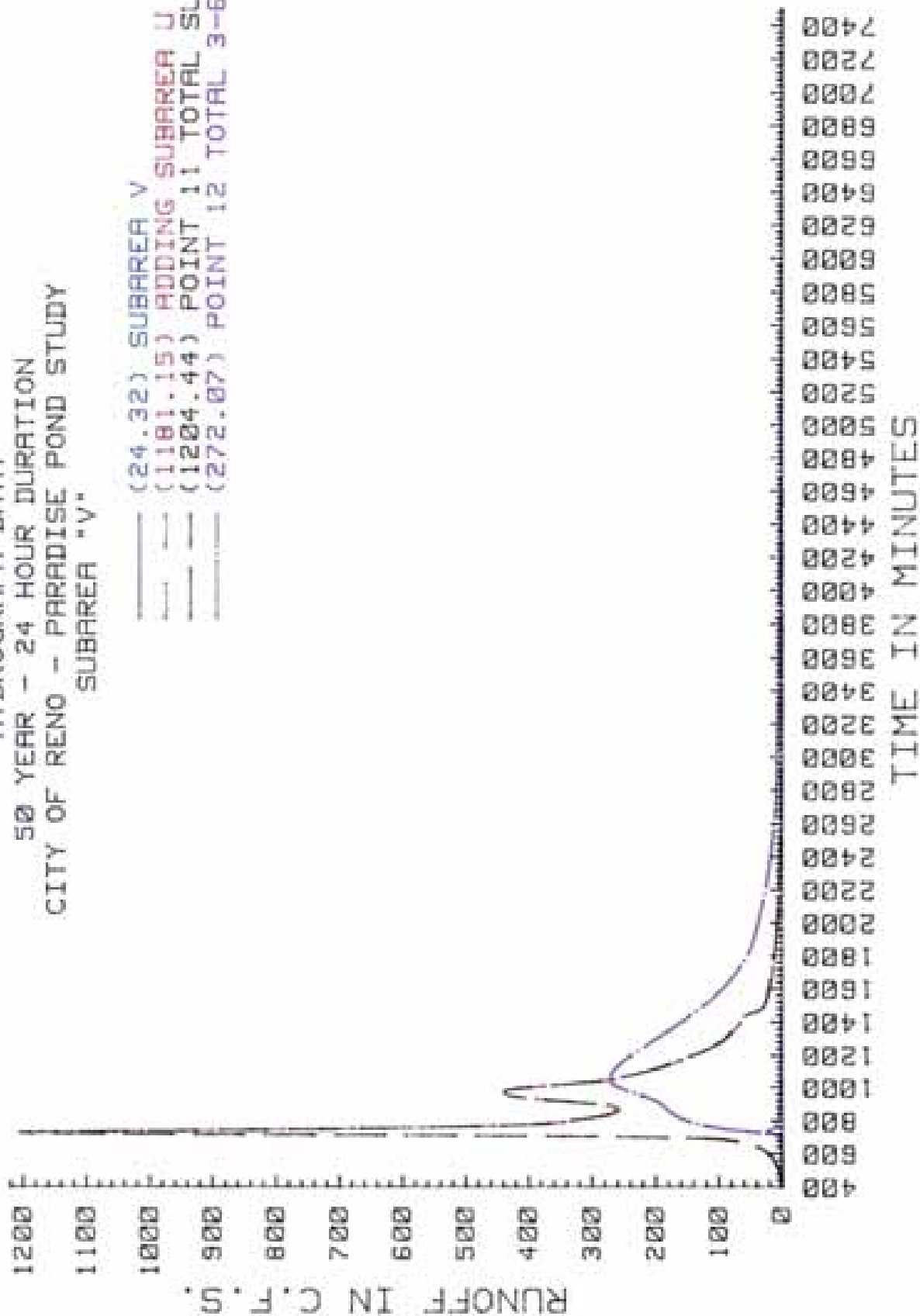
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "U"

—	(108.45)	SUBAREA U
---	(124.09)	ROUTING SUBAREA T
---	(352.9)	ROUTING SUBAREA P
---	(876.6)	ROUTING SUBAREA S
---	(1161.15)	POINT B TOTAL SUB U

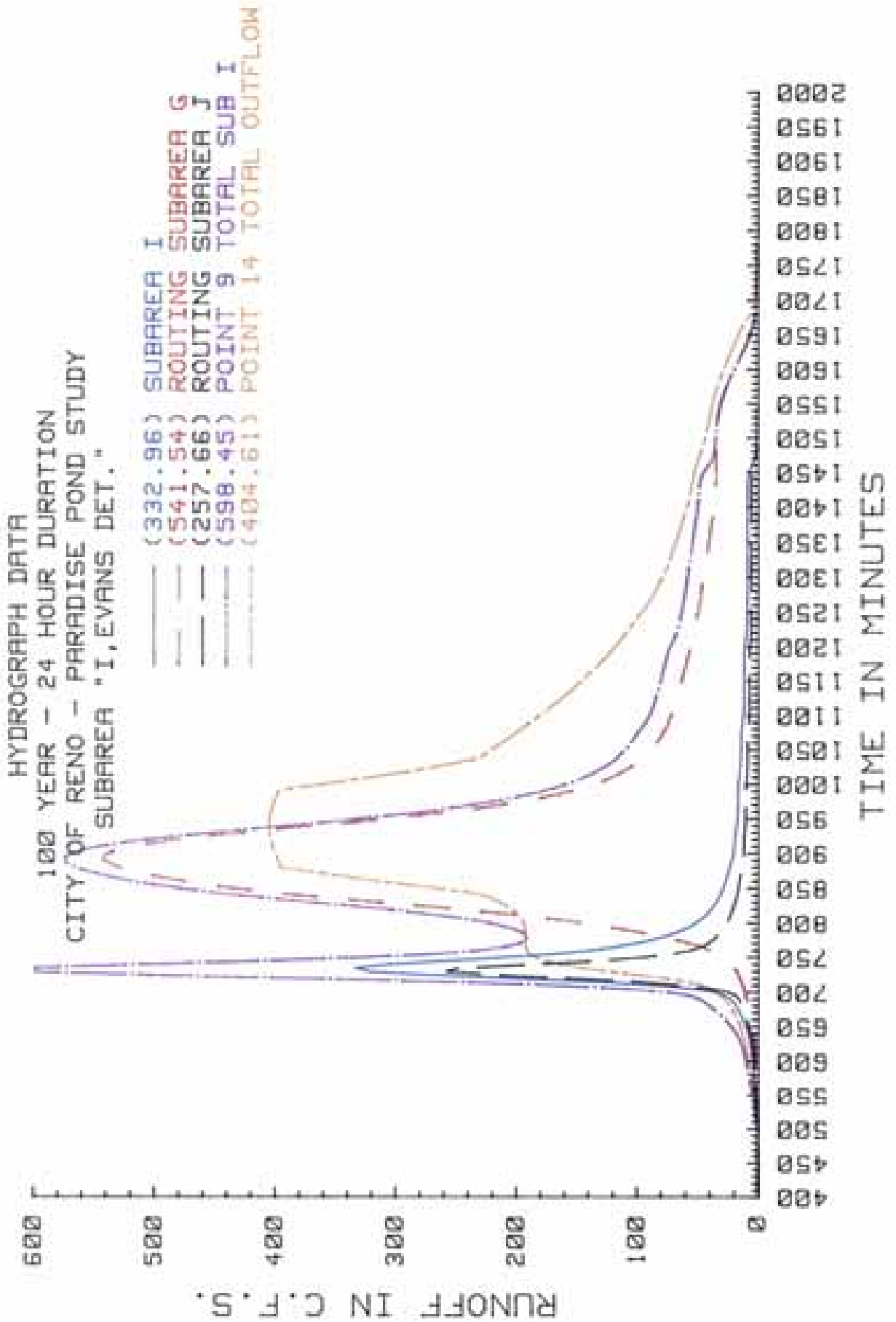


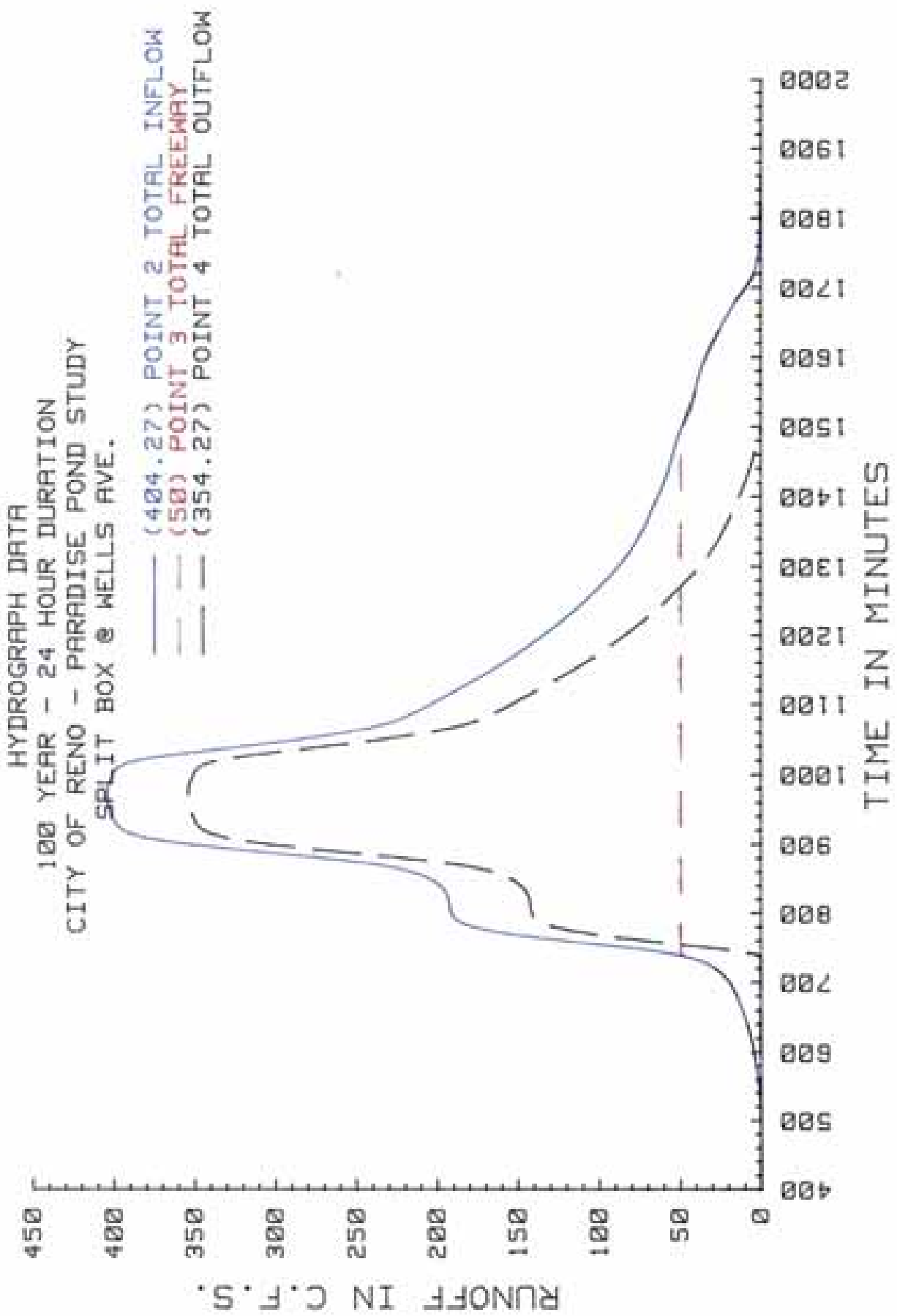
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

_____ (24.32) SUBAREA V
 - - - - - (1181.15) ADDING SUBAREA U
 _____ (1204.44) POINT 11 TOTAL SUB V
 _____ (272.87) POINT 12 TOTAL 3-66 OUT



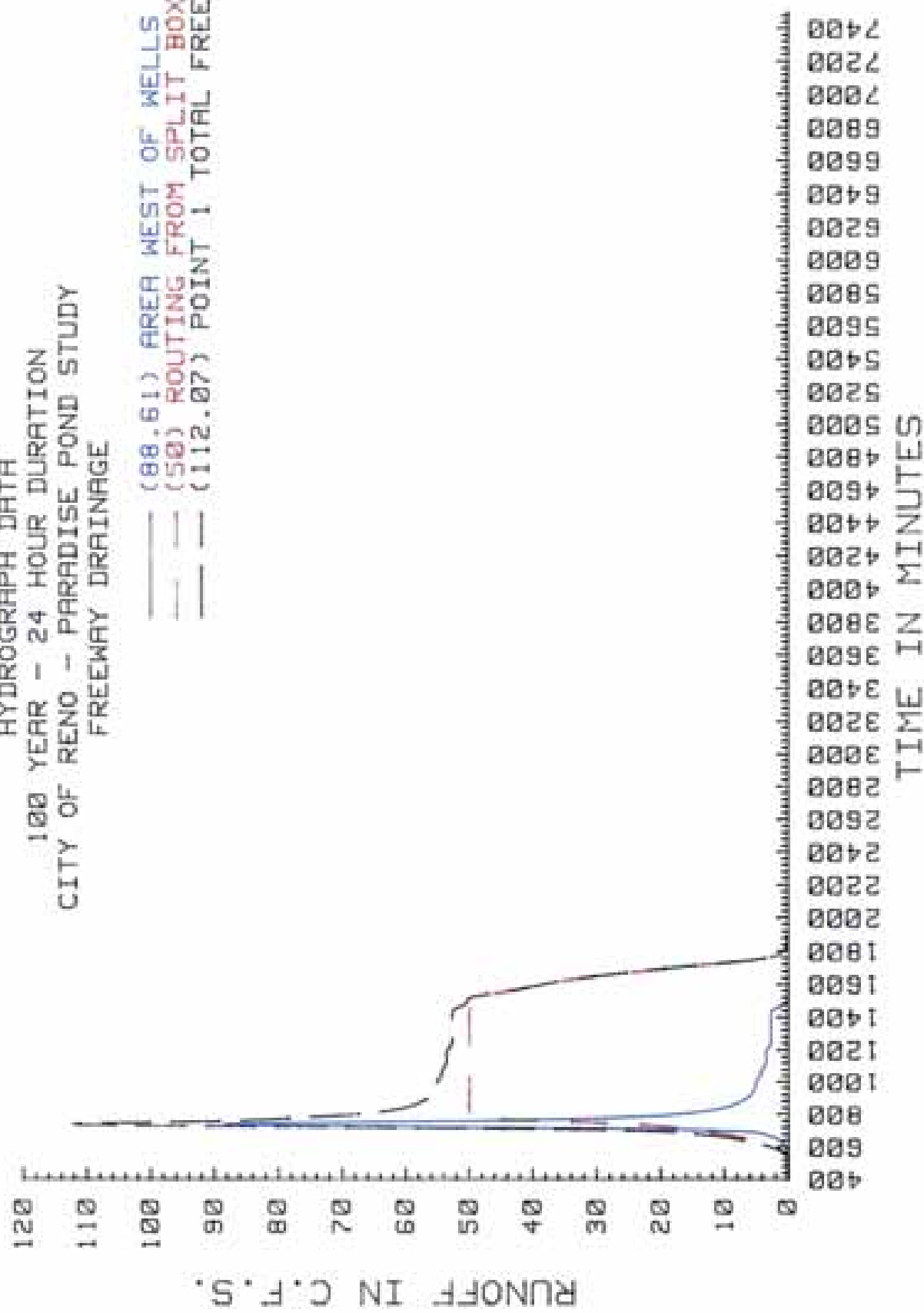
TIME IN MINUTES

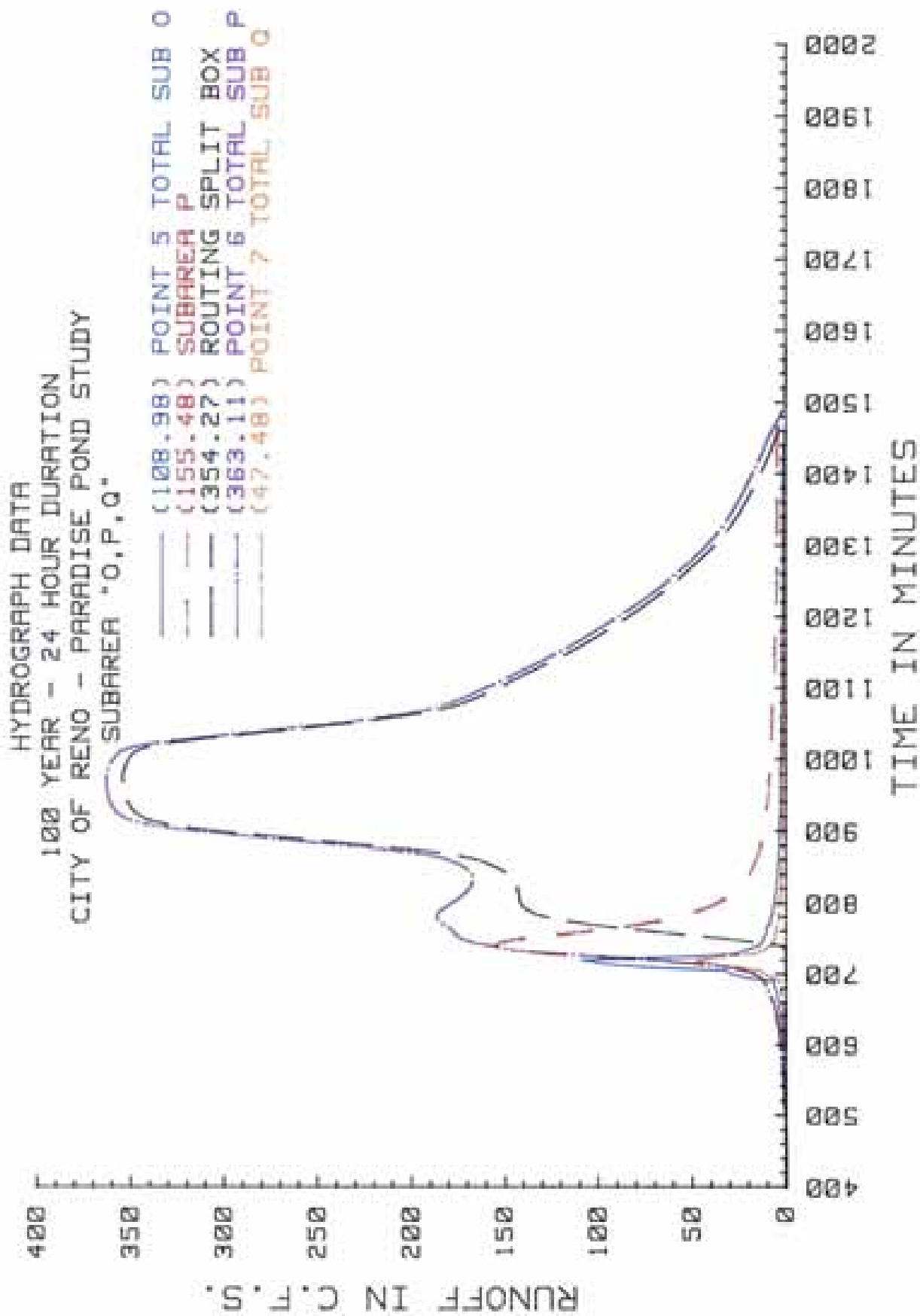




HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

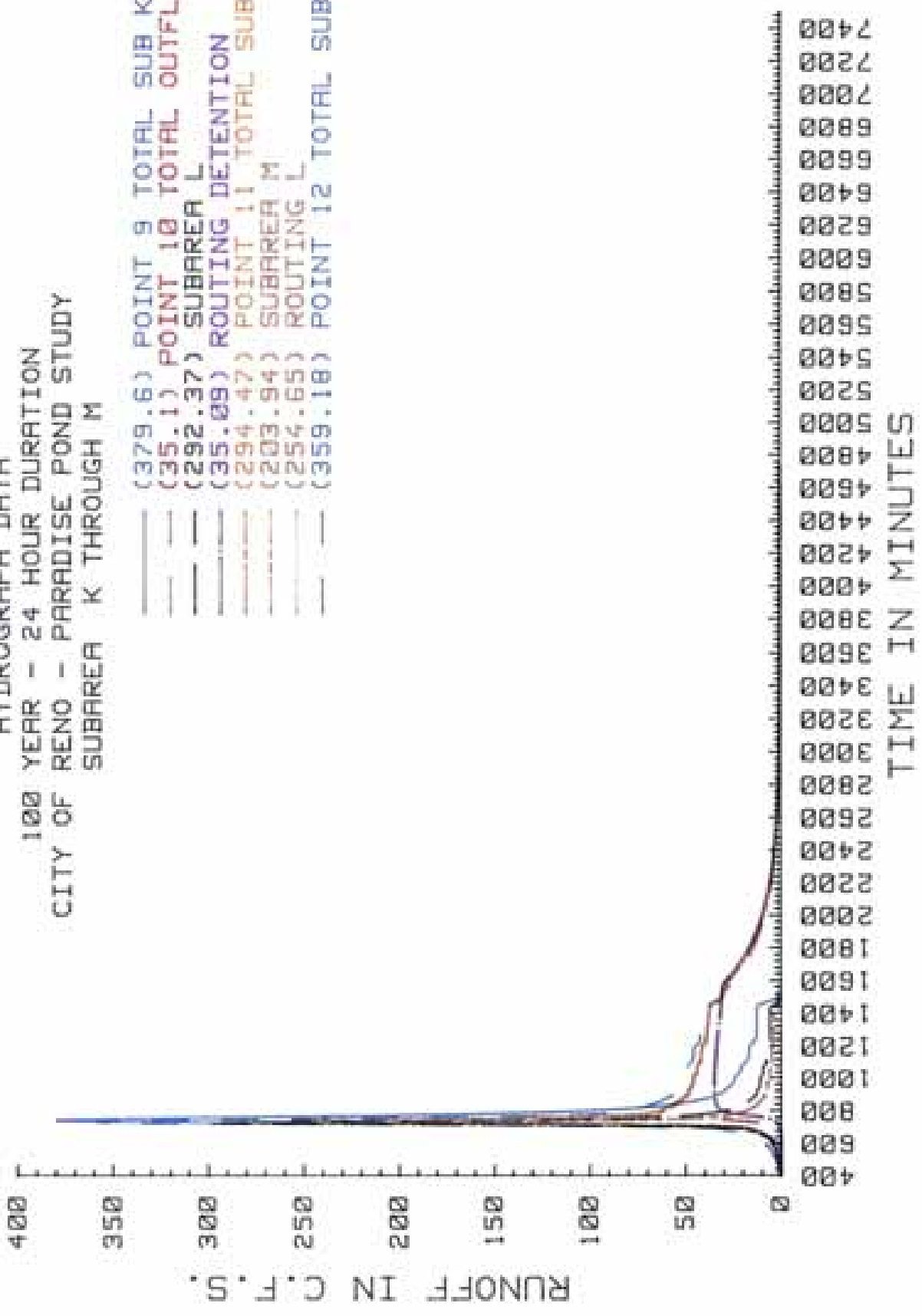
— (88.61) AREA WEST OF WELLS
 - - (58) ROUTING FROM SPLIT BOX
 — (112.07) POINT 1 TOTAL FREEWAY





HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA K THROUGH M

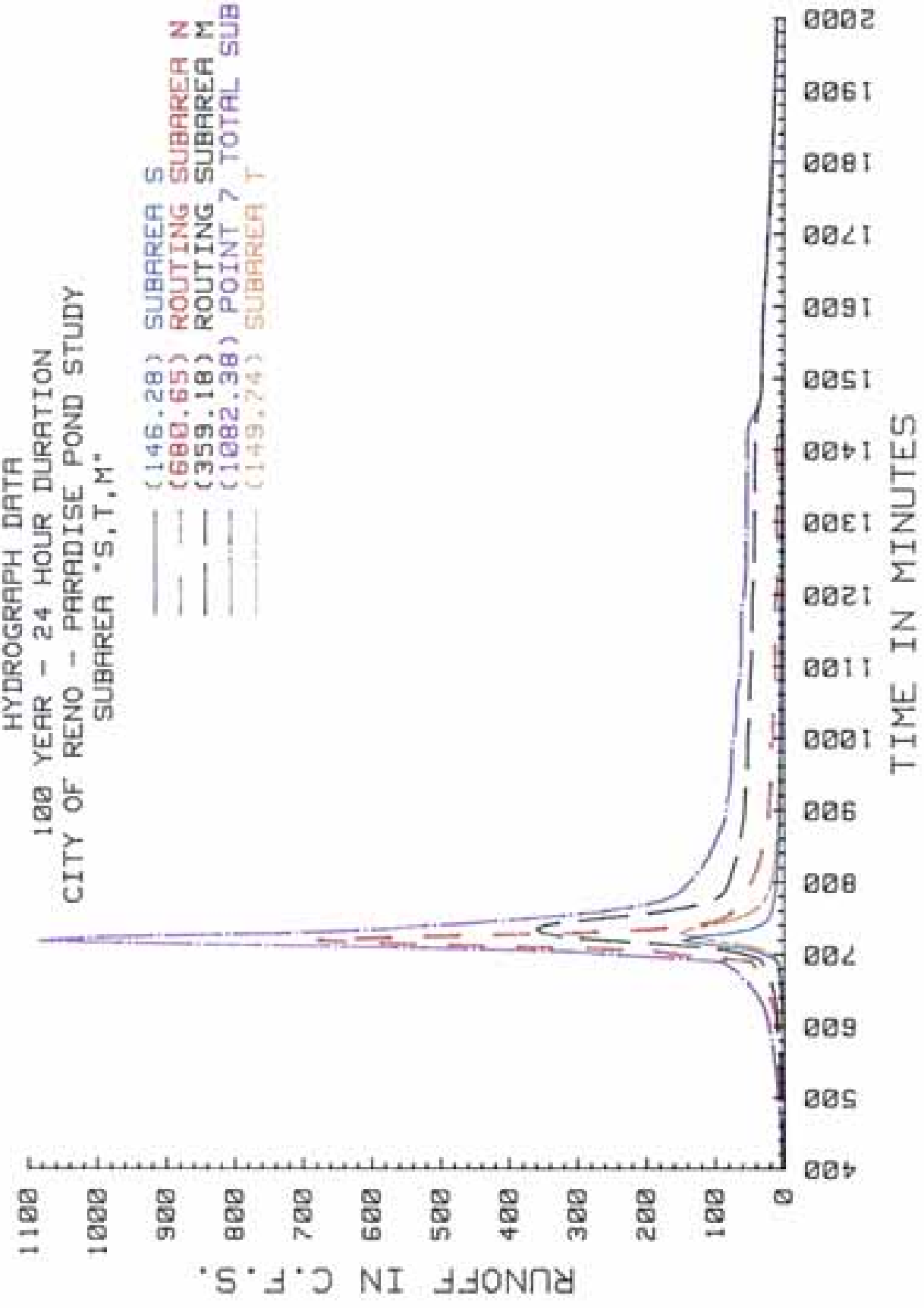
(379.6) POINT 9 TOTAL SUB K
 (35.1) POINT 10 TOTAL OUTFLOW
 (292.37) SUBAREA L
 (35.09) ROUTING DETENTION
 (294.47) POINT 11 TOTAL SUB L
 (203.94) SUBAREA M
 (254.65) ROUTING L
 (359.18) POINT 12 TOTAL SUB M



TIME IN MINUTES

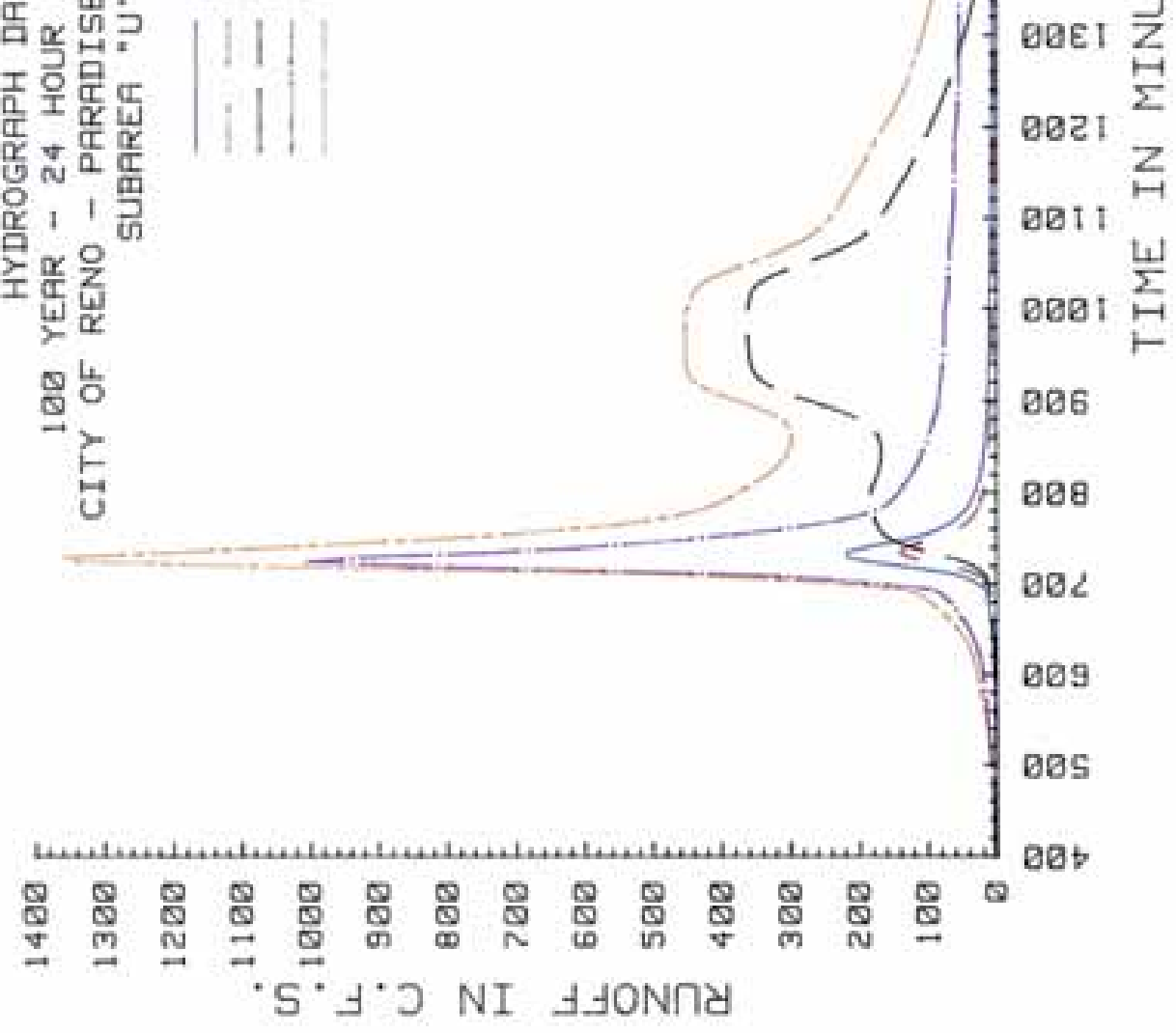
HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO -- PARADISE POND STUDY
SUBAREA "S.T.M."

(146.28) SUBAREA S
(680.65) ROUTING SUBAREA N
(359.18) ROUTING SUBAREA M
(1082.38) POINT 7 TOTAL SUB S
(149.74) SUBAREA T



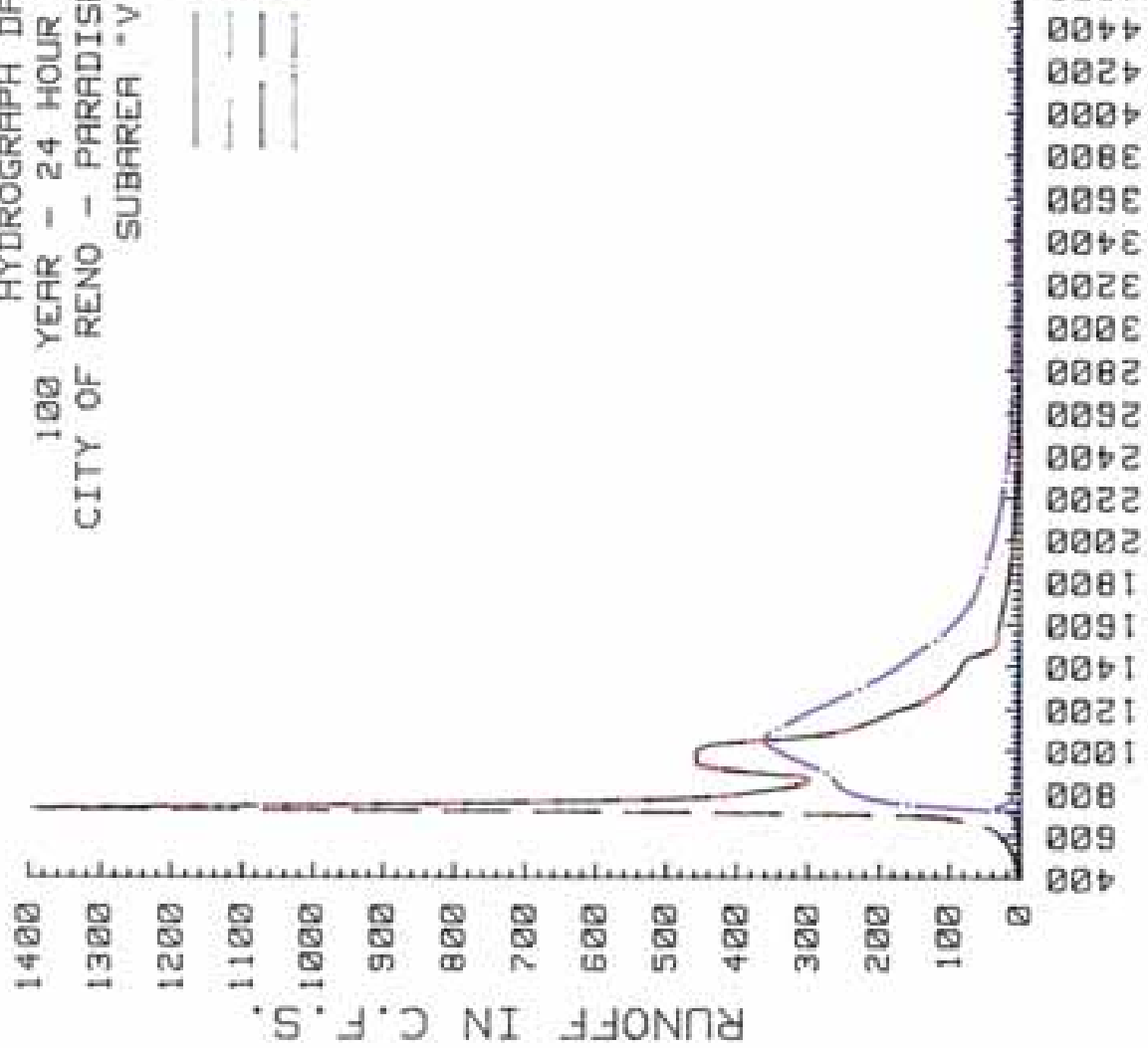
HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "U"

(218.54) SUBAREA U
(143.07) ROUTING SUBAREA T
(363.01) ROUTING SUBAREA P
(1003.4) ROUTING SUBAREA S
(1357.71) POINT 9 TOTAL SUB U



HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

(35.48) SUBAREA V
 (1357.71) ADDING SUBAREA U
 (1392.94) POINT 11 TOTAL SUB V
 (361.2) POINT 12 TOTAL 4-66 OUTF



TIME IN MINUTES

RUNOFF IN C.F.S.

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APPENDIX F

TABLE F-1

CONDITION NO. 6 WITH 3-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
A	2.75 cfs @ 110 min.	11.20 cfs @ 80 min.	19.68 cfs @ 60 min.	33.80 cfs @ 60 min.
B	3.30 cfs @ 130 min.	13.47 cfs @ 105 min.	22.97 cfs @ 90 min.	38.01 cfs @ 75 min.
C	0.23 cfs @ 155 min.	1.48 cfs @ 75 min.	2.76 cfs @ 55 min.	5.15 cfs @ 50 min.
D	7.82 cfs @ 105 min.	26.45 cfs @ 80 min.	43.31 cfs @ 80 min.	68.04 cfs @ 75 min.
E	14.37 cfs @ 130 min.	47.14 cfs @ 105 min.	75.56 cfs @ 100 min.	116.72 cfs @ 95 min.
F	3.80 cfs @ 95 min.	14.40 cfs @ 50 min.	24.88 cfs @ 45 min.	44.08 cfs @ 35 min.
G	18.44 cfs @ 215 min.	60.21 cfs @ 200 min.	95.82 cfs @ 195 min.	147.56 cfs @ 190 min.
H	0.38 cfs @ 125 min.	2.03 cfs @ 75 min.	3.76 cfs @ 50 min.	6.72 cfs @ 50 min.
I	18.26 cfs @ 260 min.	59.53 cfs @ 245 min.	23.88 cfs @ 235 min.	145.96 cfs @ 230 min.
J	4.32 cfs @ 75 min.	14.74 cfs @ 50 min.	24.47 cfs @ 40 min.	40.34 cfs @ 40 min.
Evans	16.97 cfs @ 0.5 ac.ft.	52.15 cfs @ 3.0 ac.ft.	79.85 cfs @ 5.6 ac.ft.	117.59 cfs @ 10.1 ac.ft.
Split Box	16.88 cfs @ 320 min.	51.89 cfs @ 310 min.	79.49 cfs @ 310 min.	117.11 cfs @ 310 min.
Freeway	16.88 cfs @ 320 min.	50.00 cfs @ 310 min.	50.00 cfs @ 310 min.	50.00 cfs @ 310 min.

TABLE F-1 - (con't)

<u>Subarea Totals</u>	<u>5-Year 3-Hour</u>	<u>25-Year 3-Hour</u>	<u>50-Year 3-Hour</u>	<u>100-Year 3-Hour</u>
K	0.98 cfs @ 150 min. w/0.5 ac.ft.	4.92 cfs @ 110 min. w/2.5 ac.ft.	8.54 cfs @ 95 min. w/4.3 ac.ft.	13.94 cfs @ 85 min. w/7.0 ac.ft.
L	5.92 cfs @ 80 min.	18.82 cfs @ 55 min.	30.24 cfs @ 50 min.	47.44 cfs @ 45 min.
M	11.36 cfs @ 80 min.	32.36 cfs @ 65 min.	50.74 cfs @ 60 min.	76.61 cfs @ 60 min.
N	16.55 cfs @ 55 min.	45.86 cfs @ 35 min.	71.60 cfs @ 35 min.	106.18 cfs @ 35 min.
O	2.00 cfs @ 50 min.	6.40 cfs @ 30 min.	10.77 cfs @ 30 min.	16.86 cfs @ 30 min.
P	4.36 cfs @ 105 min.	12.81 cfs @ 80 min.	29.50 cfs @ 310 min.	67.12 cfs @ 310 min.
Q	0.91 cfs @ 55 min.	2.85 cfs @ 35 min.	4.64 cfs @ 35 min.	7.19 cfs @ 30 min.
R	2.88 cfs @ 35 min.	6.41 cfs @ 30 min.	8.37 cfs @ 30 min.	10.95 cfs @ 30 min.
S	28.05 cfs @ 75 min.	77.51 cfs @ 55 min.	116.99 cfs @ 50 min.	173.57 cfs @ 50 min.
T	3.29 cfs @ 85 min.	10.27 cfs @ 60 min.	16.47 cfs @ 55 min.	25.56 cfs @ 55 min.
U	13.47 cfs @ 110 min.	38.90 cfs @ 85 min.	60.70 cfs @ 75 min.	93.42 cfs @ 70 min.
V	13.47 cfs @ 110 min.	38.90 cfs @ 85 min.	60.70 cfs @ 75 min.	93.42 cfs @ 70 min.

Paradise Pond Outlet; One 30-inch pipe under inlet condition:

0.53 cfs @ 110 min. w/5.2ac.ft.	1.53 cfs @ 85 min. w/15.2ac.ft.	3.96 cfs @ 75 min. w/25.2ac.ft.	8.92 cfs @ 70 min. w/44.0ac.ft.
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TABLE F-2

CONDITION NO. 6 WITH 6-HOUR DURATION STORM

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
A	4.44 cfs @ 215 min.	19.78 cfs @ 165 min.	32.51 cfs @ 165 min.	64.51 cfs @ 160 min.
B	5.58 cfs @ 235 min.	20.28 cfs @ 180 min.	33.25 cfs @ 180 min.	64.91 cfs @ 175 min.
C	0.53 cfs @ 360 min.	2.70 cfs @ 155 min.	5.56 cfs @ 150 min.	12.52 cfs @ 150 min.
D	14.25 cfs @ 160 min.	40.17 cfs @ 160 min.	60.64 cfs @ 160 min.	109.27 cfs @ 160 min.
E	22.64 cfs @ 215 min.	62.85 cfs @ 200 min.	93.42 cfs @ 200 min.	164.25 cfs @ 195 min.
F	7.48 cfs @ 155 min.	32.16 cfs @ 150 min.	50.44 cfs @ 150 min.	90.93 cfs @ 150 min.
G	30.85 cfs @ 320 min.	81.25 cfs @ 300 min.	118.63 cfs @ 295 min.	203.76 cfs @ 290 min.
H	0.72 cfs @ 245 min.	4.25 cfs @ 150 min.	7.88 cfs @ 150 min.	16.24 cfs @ 150 min.
I	40.22 cfs @ 360 min.	99.19 cfs @ 345 min.	141.93 cfs @ 340 min.	237.75 cfs @ 335 min.
J	9.55 cfs @ 155 min.	29.24 cfs @ 155 min.	42.94 cfs @ 150 min.	75.31 cfs @ 150 min.
Evans	35.98 cfs @ 1.6 ac.ft.	80.69 cfs @ 5.7 ac.ft.	111.20 cfs @ 9.2 ac.ft.	173.98 cfs @ 18.3 ac.ft.
Split Box	35.63 cfs @ 410 min.	80.18 cfs @ 415 min.	110.59 cfs @ 415 min.	173.09 cfs @ 415 min.
Freeway	35.63 cfs @ 410 min.	50.00 cfs @ 415 min.	50.00 cfs @ 415 min.	50.00 cfs @ 415 min.

TABLE F-2 - (con't)

CONDITION NO. 6 WITH 6-HOUR DURATION STORMS

<u>Subarea Totals</u>	<u>5-Year 6-Hour</u>	<u>25-Year 6-Hour</u>	<u>50-Year 6-Hour</u>	<u>100-Year 6-Hour</u>
K	3.10 cfs @ 265 min. w/1.6 ac.ft.	8.87 cfs @ 185 min. w/4.4 ac.ft.	13.12 cfs @ 180 min. w/6.6 ac.ft.	22.77 cfs @ 180 min. w/11.4 ac.ft.
L	11.97 cfs @ 160 min.	33.58 cfs @ 160 min.	48.55 cfs @ 160 min.	83.21 cfs @ 155 min.
M	20.12 cfs @ 170 min.	50.76 cfs @ 170 min.	72.47 cfs @ 165 min.	120.22 cfs @ 165 min.
N	36.35 cfs @ 150 min.	82.24 cfs @ 150 min.	111.54 cfs @ 150 min.	174.64 cfs @ 150 min.
O	5.15 cfs @ 150 min.	12.08 cfs @ 150 min.	16.96 cfs @ 145 min.	27.45 cfs @ 145 min.
P	7.28 cfs @ 185 min.	31.53 cfs @ 405 min.	62.31 cfs @ 405 min.	125.32 cfs @ 410 min.
Q	2.23 cfs @ 150 min.	5.48 cfs @ 150 min.	7.63 cfs @ 150 min.	12.16 cfs @ 150 min.
R	5.13 cfs @ 150 min.	8.44 cfs @ 150 min.	10.90 cfs @ 150 min.	31.06 cfs @ 145 min.
S	54.18 cfs @ 155 min.	129.91 cfs @ 150 min.	183.30 cfs @ 150 min.	301.32 cfs @ 150 min.
T	6.30 cfs @ 165 min.	17.52 cfs @ 165 min.	25.68 cfs @ 160 min.	43.91 cfs @ 160 min.
U	20.93 cfs @ 185 min.	58.37 cfs @ 175 min.	94.67 cfs @ 375 min.	182.41 cfs @ 375 min.
V	20.93 cfs @ 185 min.	58.37 cfs @ 175 min.	95.13 cfs @ 375 min.	183.99 cfs @ 375 min.

Paradise Pond Outlet; One 30-inch pipe under inlet condition:

1.14 cfs @ 185 min. w/11.4ac.ft.	4.63 cfs @ 175 min. w/27.8ac.ft.	8.92 cfs @ 375 min. w/44.1ac.ft.	17.15 cfs @ 375 min. w/87.8ac.ft.
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TABLE F-3

CONDITION NO. 6 WITH 24-HOUR DURATION STORM

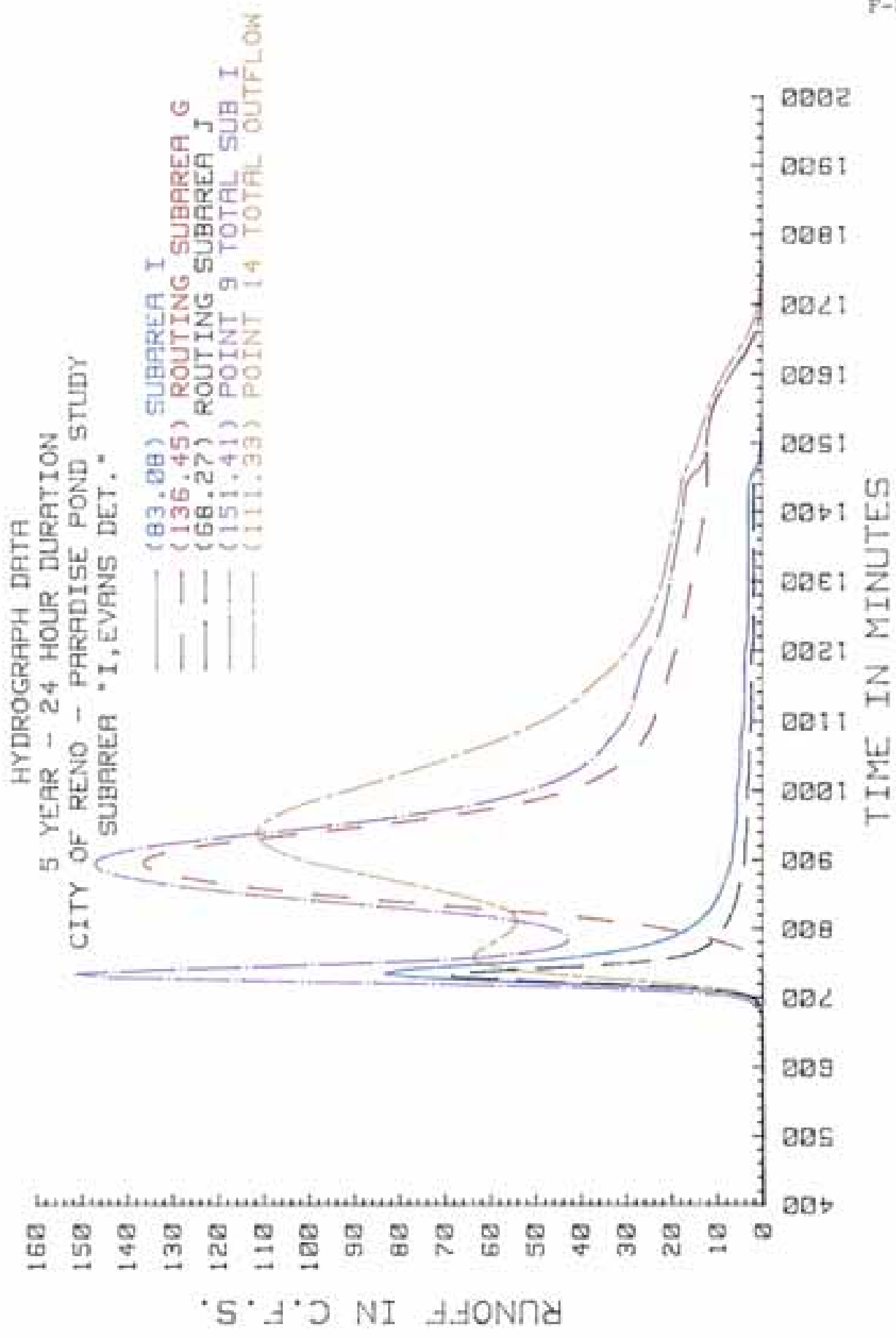
<u>Subarea</u> <u>Totals</u>	<u>5-Year</u> <u>24-Hour</u>	<u>25-Year</u> <u>24-Hour</u>	<u>50-Year</u> <u>24-Hour</u>	<u>100-Year</u> <u>24-Hour</u>
A	61.48 cfs @ 730 min.	158.82 cf @ 730 min.	237.00 cfs @ 730 min.	278.60 cfs @ 730 min.
B	54.62 cfs @ 745 min.	143.92 cfs @ 740 min.	217.10 cfs @ 740 min.	256.20 cfs @ 740 min.
C	14.36 cfs @ 720 min.	41.29 cfs @ 720 min.	63.42 cfs @ 720 min.	75.30 cfs @ 720 min.
D	104.77 cfs @ 725 min.	241.01 cfs @ 725 min.	348.08 cfs @ 725 min.	404.57 cfs @ 725 min.
E	121.82 cfs @ 760 min.	291.19 cfs @ 755 min.	425.59 cfs @ 755 min.	496.81 cfs @ 755 min.
F	110.52 cfs @ 720 min.	258.26 cfs @ 720 min.	373.59 cfs @ 720 min.	434.25 cfs @ 720 min.
G	139.30 cfs @ 850 min.	326.44 cfs @ 850 min.	474.56 cfs @ 850 min.	552.88 cfs @ 850 min.
H	19.74 cfs @ 720 min.	52.44 cfs @ 720 min.	78.85 cfs @ 720 min.	92.93 cfs @ 720 min.
I	151.41 cfs @ 735 min.	351.63 cfs @ 735 min.	512.01 cfs @ 735 min.	598.45 cfs @ 730 min.
J	80.99 cfs @ 725 min.	176.79 cfs @ 720 min.	253.47 cfs @ 720 min.	293.67 cfs @ 720 min.
Evans	111.33 cfs @ 735 min.	234.09 cfs @ 735 min.	396.26 cfs @ 735 min.	404.61 cfs @ 730 min.
Split Box	110.68 cfs @ 970 min.	231.80 cfs @ 970 min.	395.52 cfs @ 960 min.	404.27 cfs @ 970 min.
Freeway	53.45 cfs @ 820 min.	60.72 cfs @ 790 min.	93.12 cfs @ 740 min.	112.07 cfs @ 740 min.

TABLE F-3 (con't)

<u>Subarea Totals</u>	<u>5-Year 24-Hour</u>	<u>25-Year 24-Hour</u>	<u>50-Year 24-Hour</u>	<u>100-Year 24-Hour</u>
K	75.30 cfs @ 745 min.	209.81 cfs @ 745 min.	320.32 cfs @ 745 min.	379.60 cfs @ 745 min.
L	81.76 cfs @ 730 min.	179.30 cfs @ 725 min.	254.81 cfs @ 725 min.	294.47 cfs @ 725 min.
M	106.03 cfs @ 735 min.	223.01 cfs @ 735 min.	312.42 cfs @ 735 min.	359.18 cfs @ 735 min.
N	201.78 cfs @ 720 min.	425.35 cfs @ 720 min.	603.78 cfs @ 720 min.	680.65 cfs @ 720 min.
O	35.20 cfs @ 720 min.	70.00 cfs @ 720 min.	95.73 cfs @ 720 min.	108.98 cfs @ 720 min.
P	63.89 cfs @ 970 min.	187.69 cfs @ 970 min.	353.48 cfs @ 960 min.	363.11 cfs @ 965 min.
Q	14.88 cfs @ 720 min.	30.18 cfs @ 720 min.	41.59 cfs @ 720 min.	47.48 cfs @ 720 min.
R	37.09 cfs @ 720 min.	68.34 cfs @ 720 min.	90.86 cfs @ 720 min.	102.36 cfs @ 720 min.
S	311.01 cfs @ 720 min.	668.50 cfs @ 720 min.	950.85 cfs @ 720 min.	1082.38 cfs @ 720 min.
T	42.17 cfs @ 730 min.	91.89 cfs @ 730 min.	129.91 cfs @ 730 min.	149.74 cfs @ 730 min.
U	131.72 cfs @ 740 min.	308.55 cfs @ 740 min.	456.69 cfs @ 965 min.	526.13 cfs @ 740 min.
V	131.72 cfs @ 740 min.	315.91 cfs @ 740 min.	472.82 cfs @ 740 min.	560.13 cfs @ 735 min.

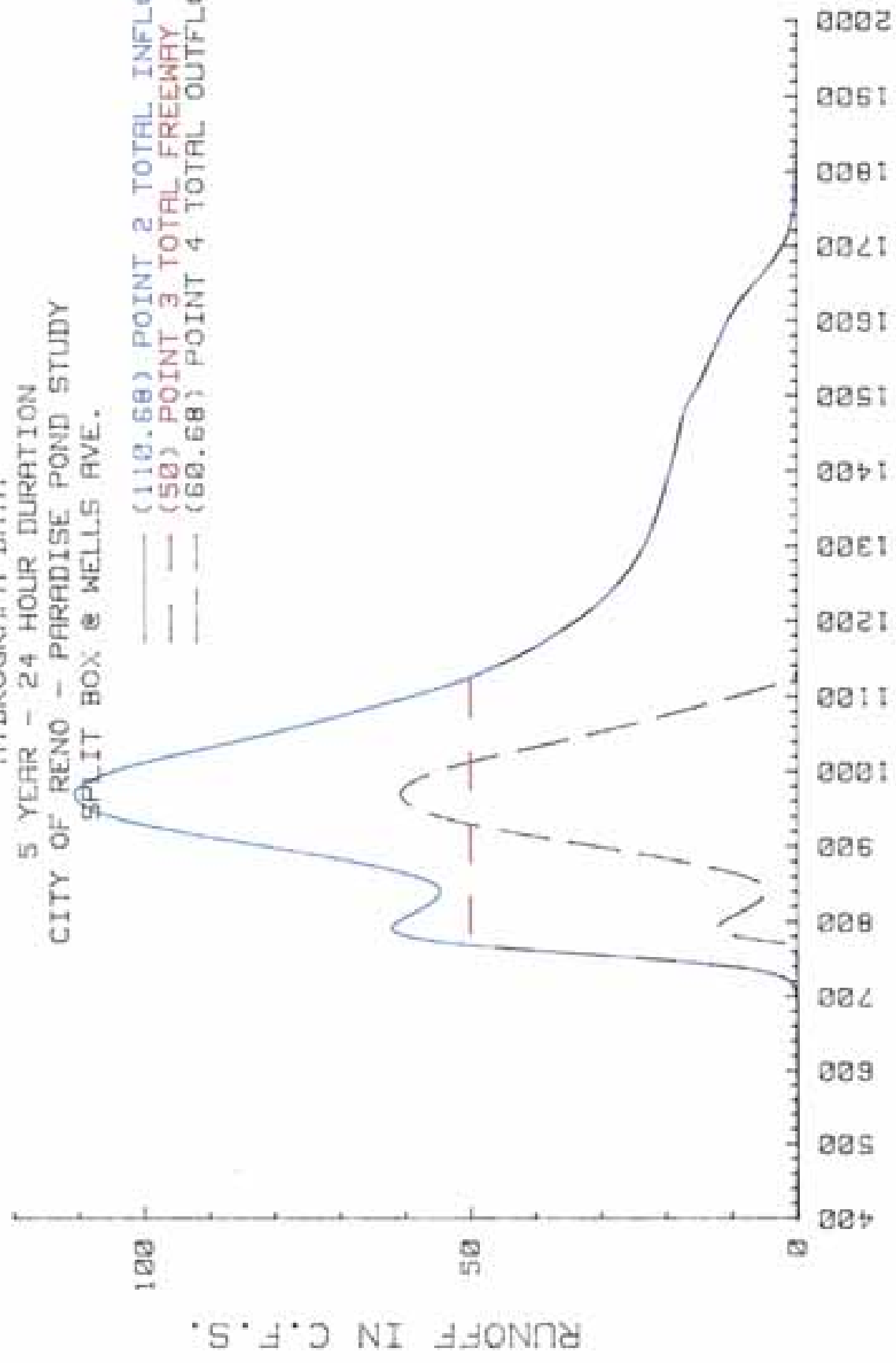
Paradise Pond Outlet; the minimum size pipe under inlet conditions to keep from overflowing Paradise Pond:

1-30" pipe	1-60" pipes	3-60" pipes	3-66" pipes
10.14 cfs @ 740 min. w/49.0ac.ft.	71.37 cfs @ 740 min. w/114.8ac.ft.	226.82 cfs @ 740 min. w/120.3ac.ft.	277.57 cfs @ 735 min. w/128.6ac.ft.



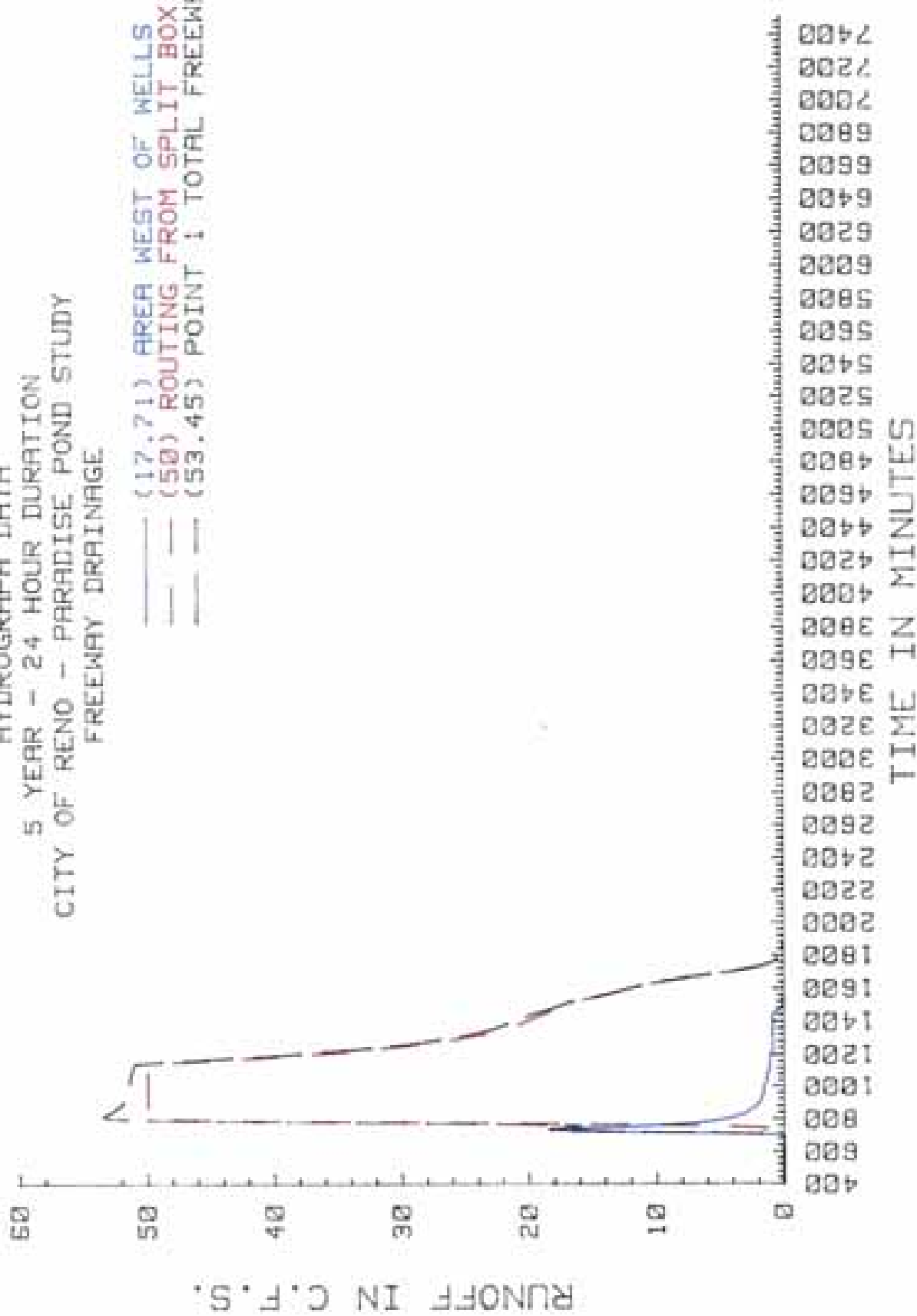
HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SPLIT BOX @ WELLS AVE.

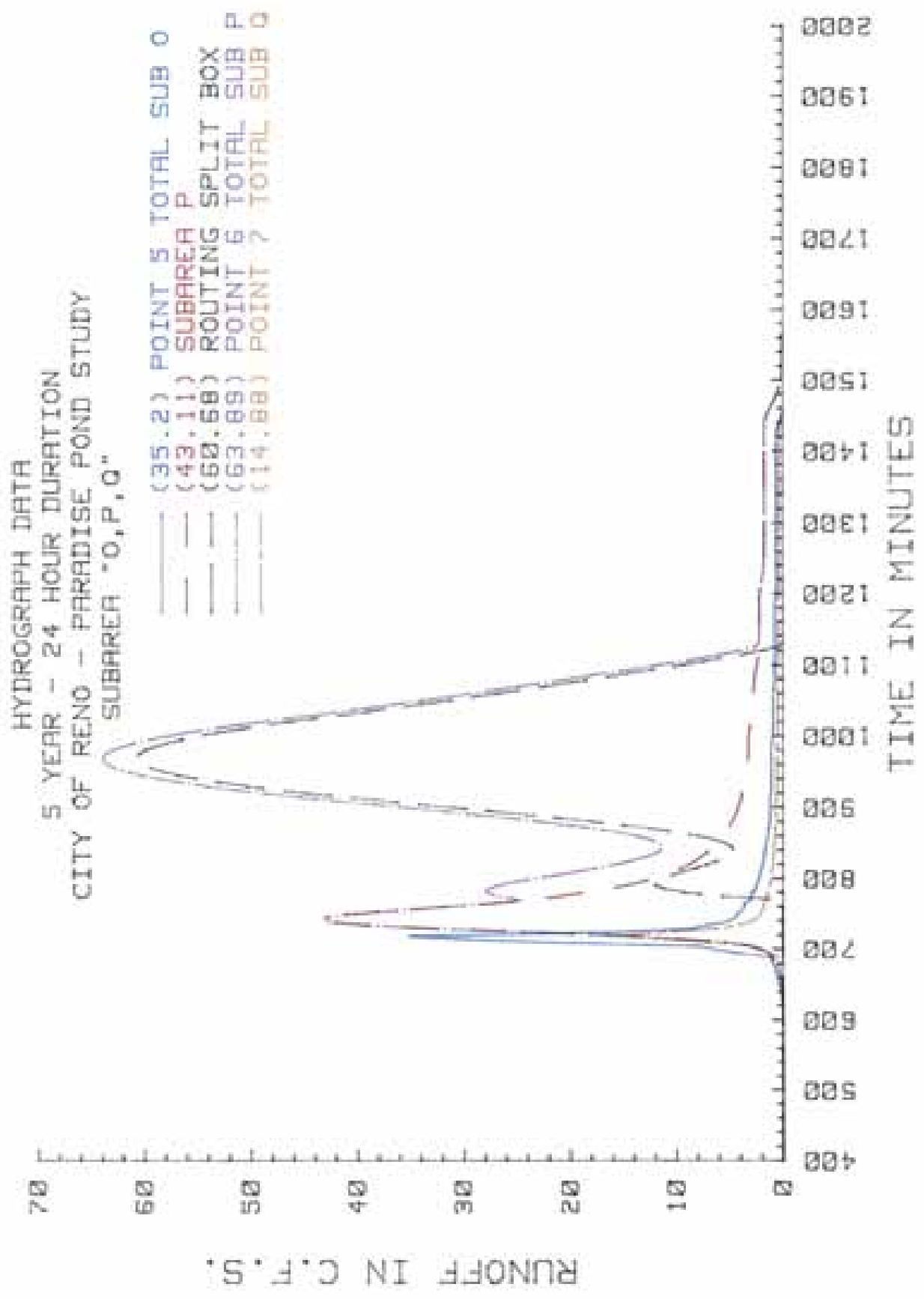
— (110.68) POINT 2 TOTAL INFLOW
- - (50) POINT 3 TOTAL FREEWAY
- - (60.68) POINT 4 TOTAL OUTFLOW



HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

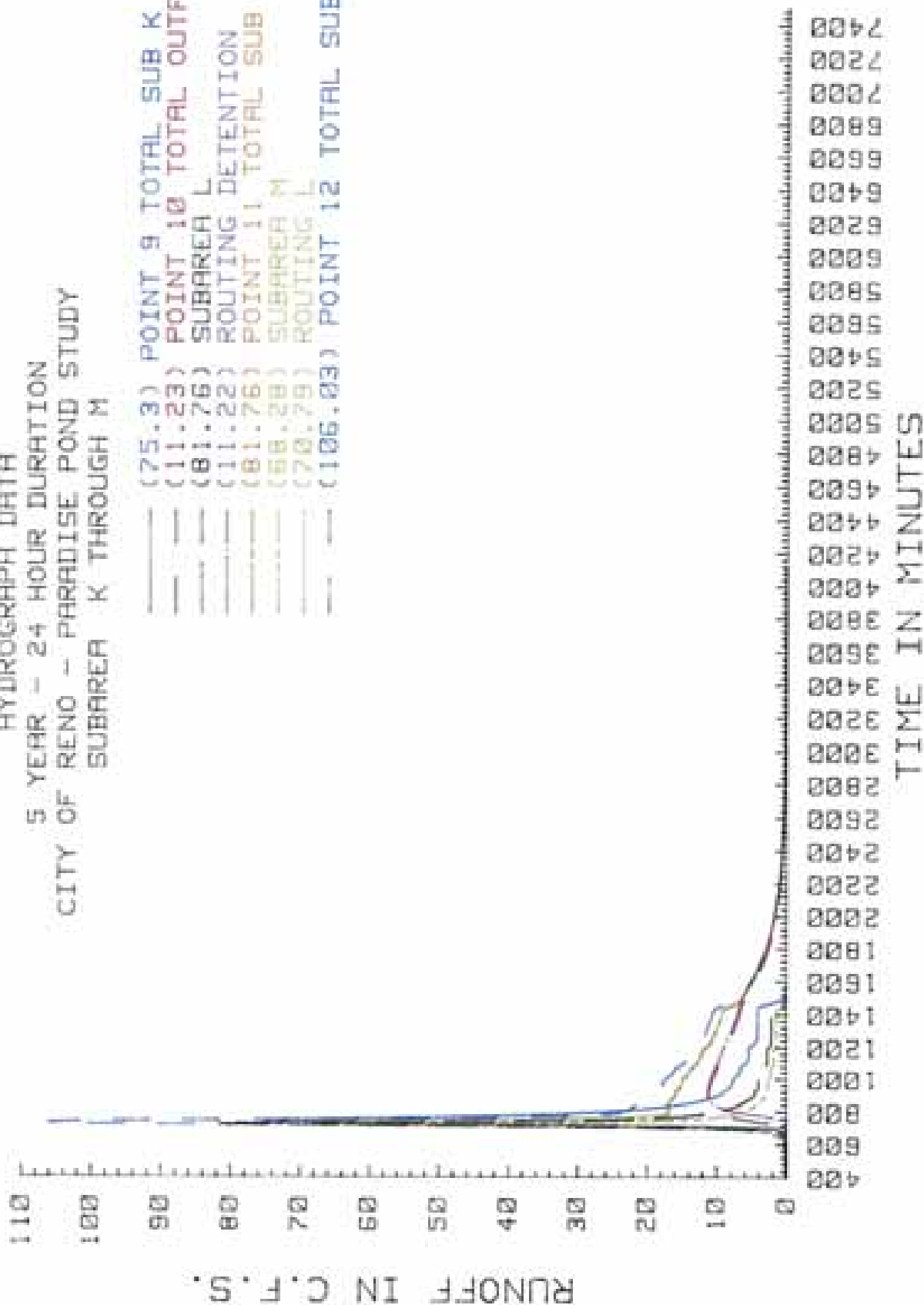
(17.71) AREA WEST OF WELLS
 (50) ROUTING FROM SPLIT BOX
 (53.45) POINT 1 TOTAL FREEWAY





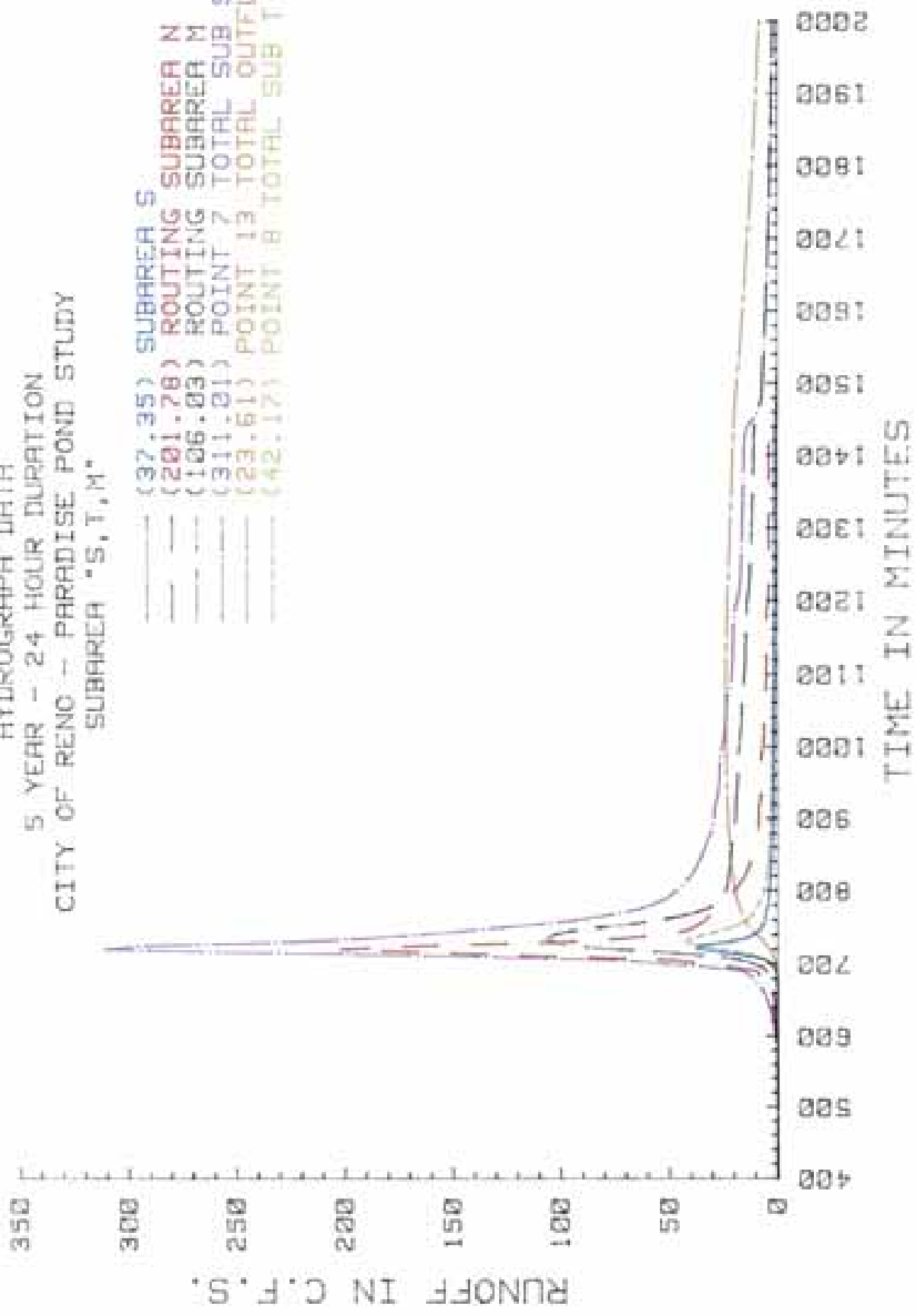
HYDROGRAPH DATA
 5 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA K THROUGH M

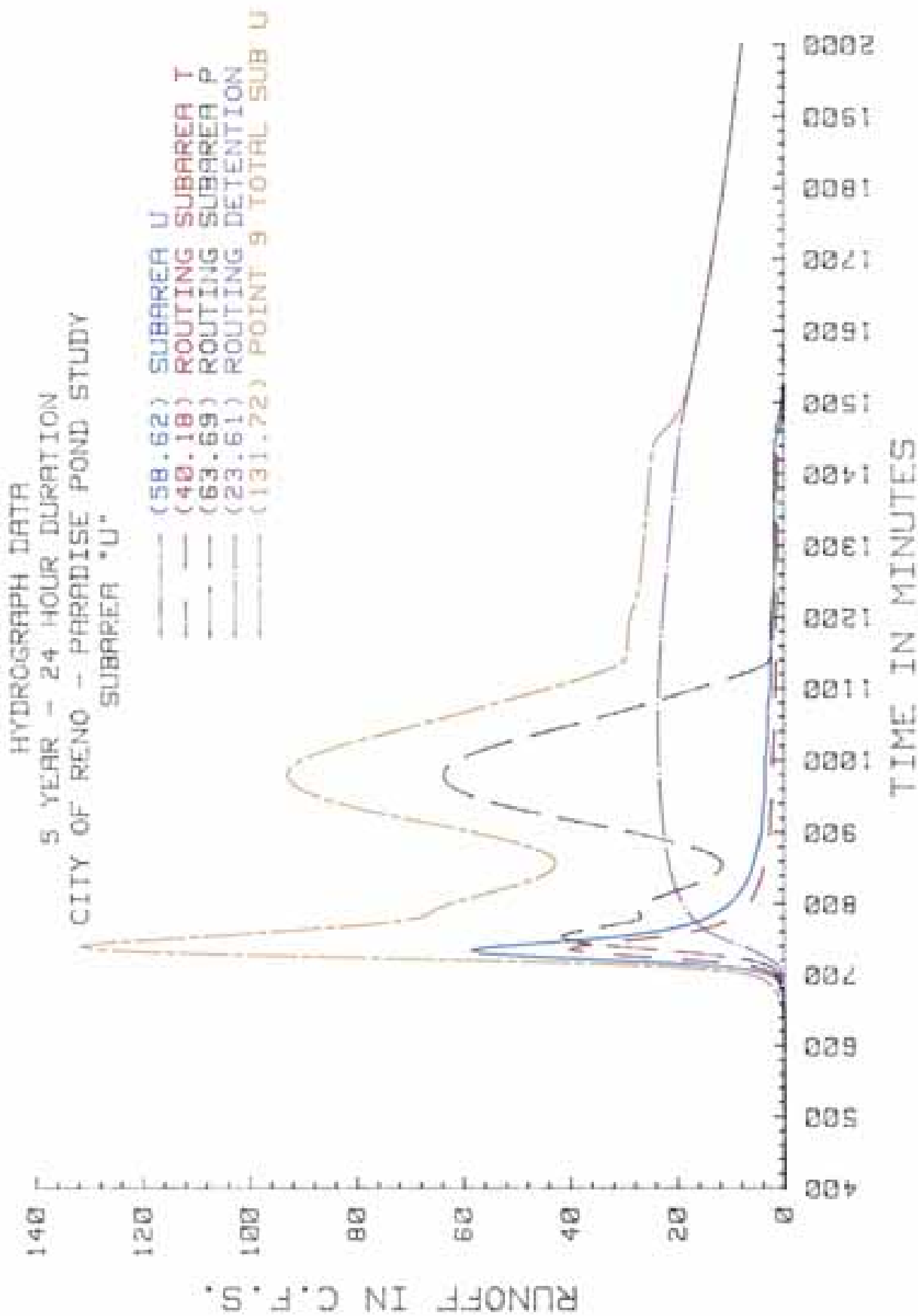
---	(75.3)	POINT 9	TOTAL	SUB K
---	(11.23)	POINT 10	TOTAL	OUTFLOW
---	(81.76)	SUBAREA L		
---	(11.22)	ROUTING	DETECTION	
---	(81.76)	POINT 11	TOTAL	SUB L
---	(58.28)	SUBAREA M		
---	(70.79)	ROUTING	L	
---	(106.03)	POINT 12	TOTAL	SUB M



HYDROGRAPH DATA
5 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S,T,M"

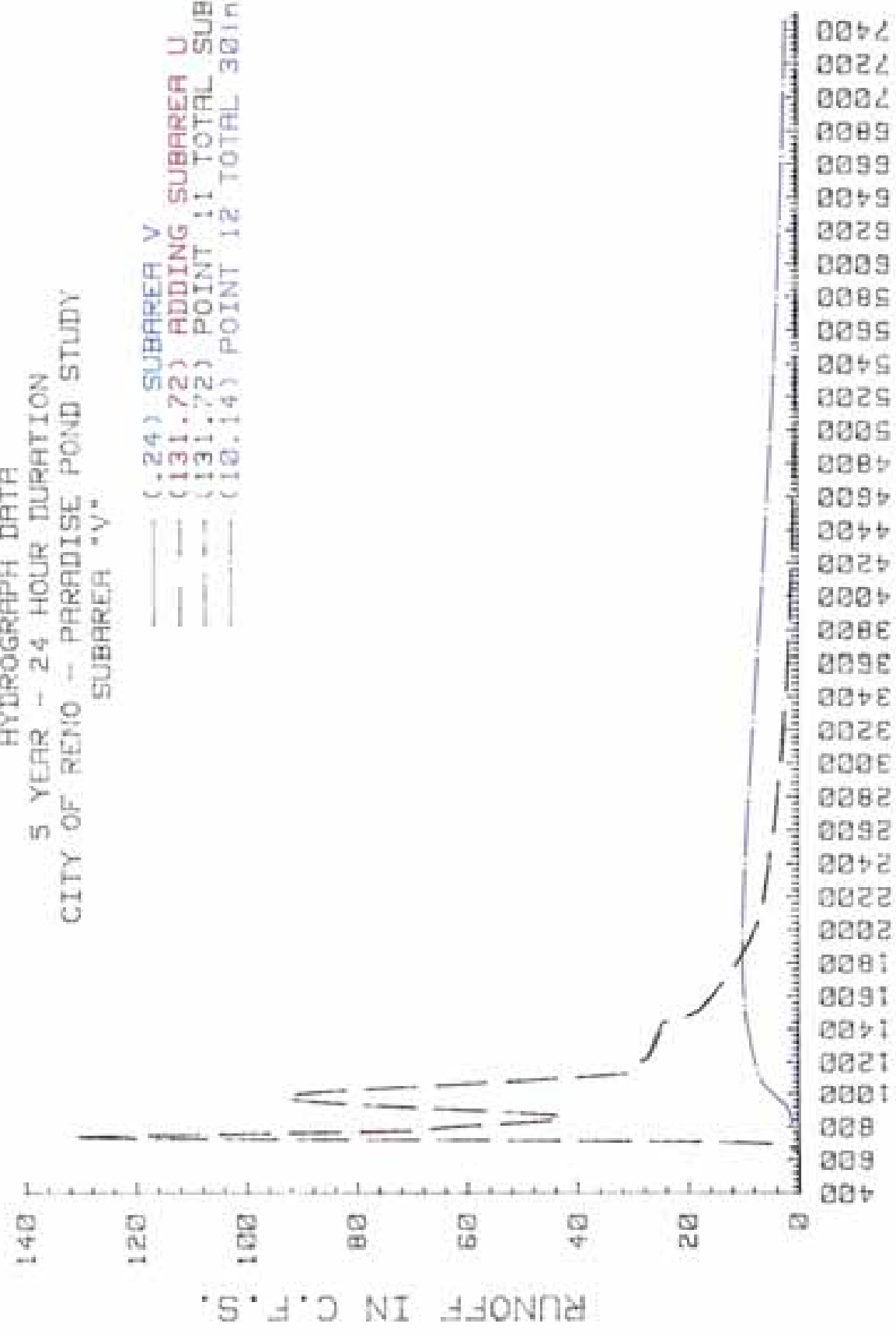
---	(37.35)	SUBAREA S
---	(201.78)	ROUTING SUBAREA N
---	(106.83)	ROUTING SUBAREA M
---	(311.21)	POINT 7 TOTAL SUB S
---	(23.61)	POINT 13 TOTAL OUTFLOW
---	(42.17)	POINT 8 TOTAL SUB T



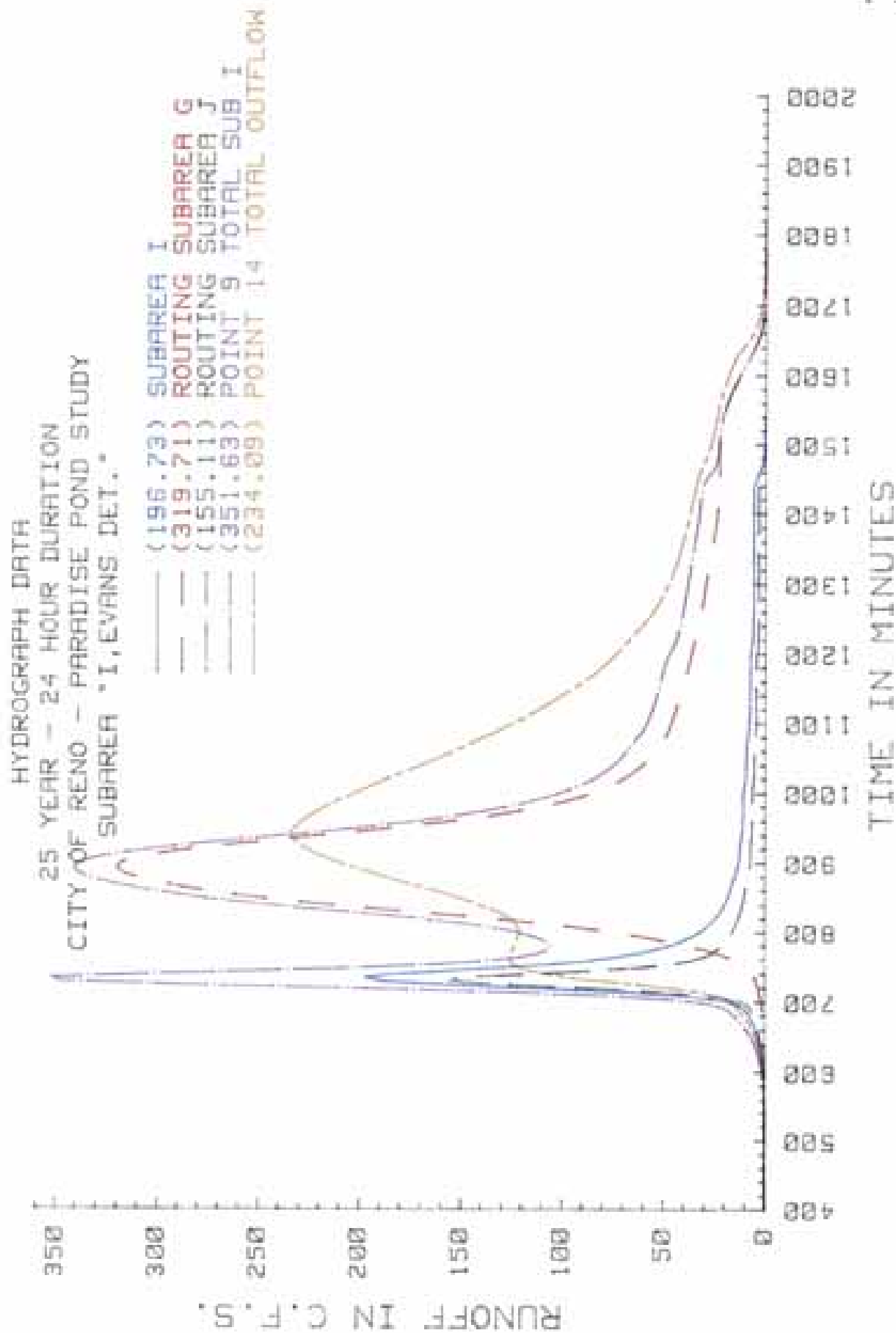


HYDROGRAPH DATA
 5 YEAR -- 24 HOUR DURATION
 CITY OF RENO -- PARADISE POND STUDY
 SUBAREA "V"

(.24) SUBAREA V
 (131.72) ADDING SUBAREA U
 (131.72) POINT 11 TOTAL SUB V
 (10.14) POINT 12 TOTAL 30 in. OUT

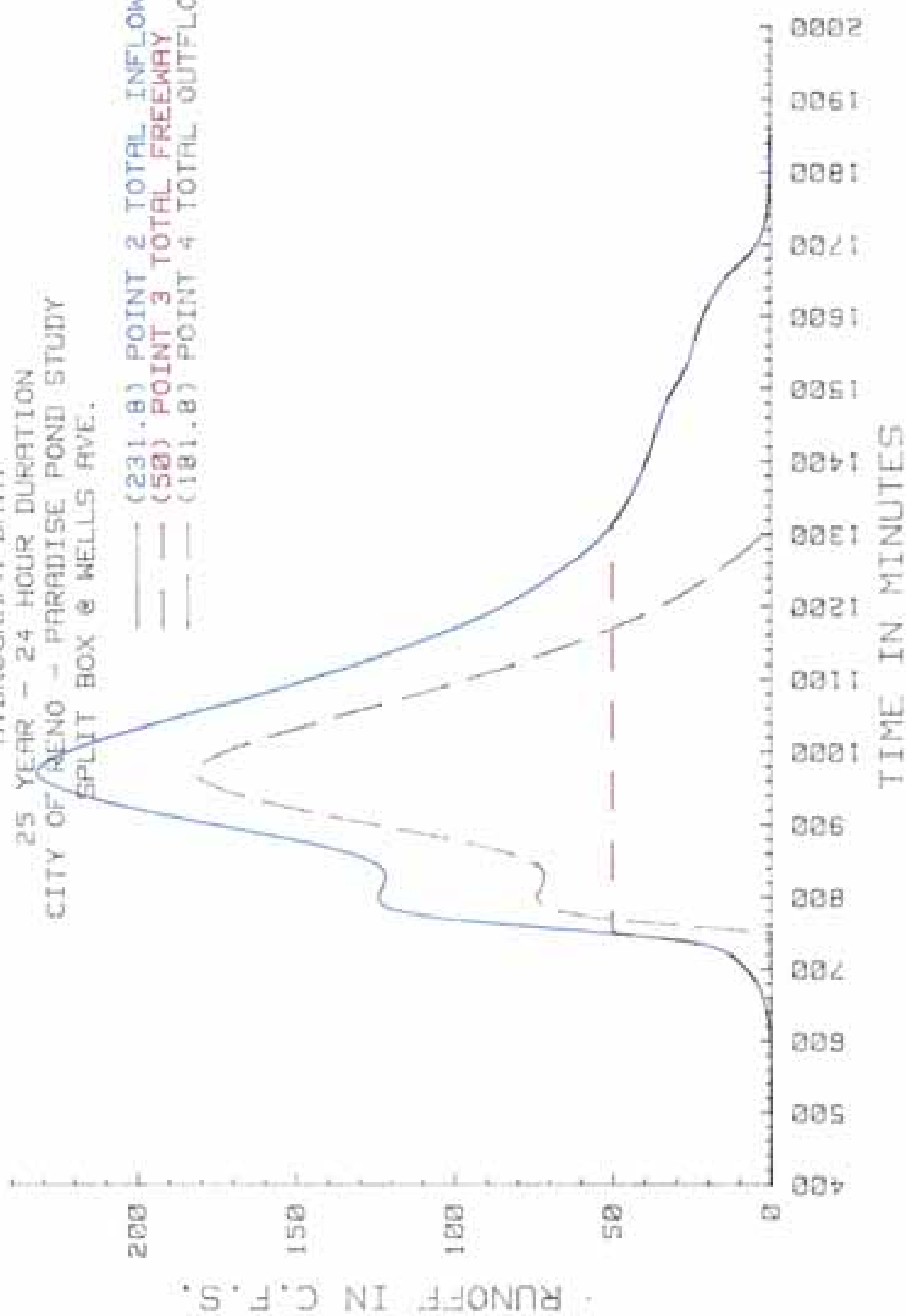


TIME IN MINUTES



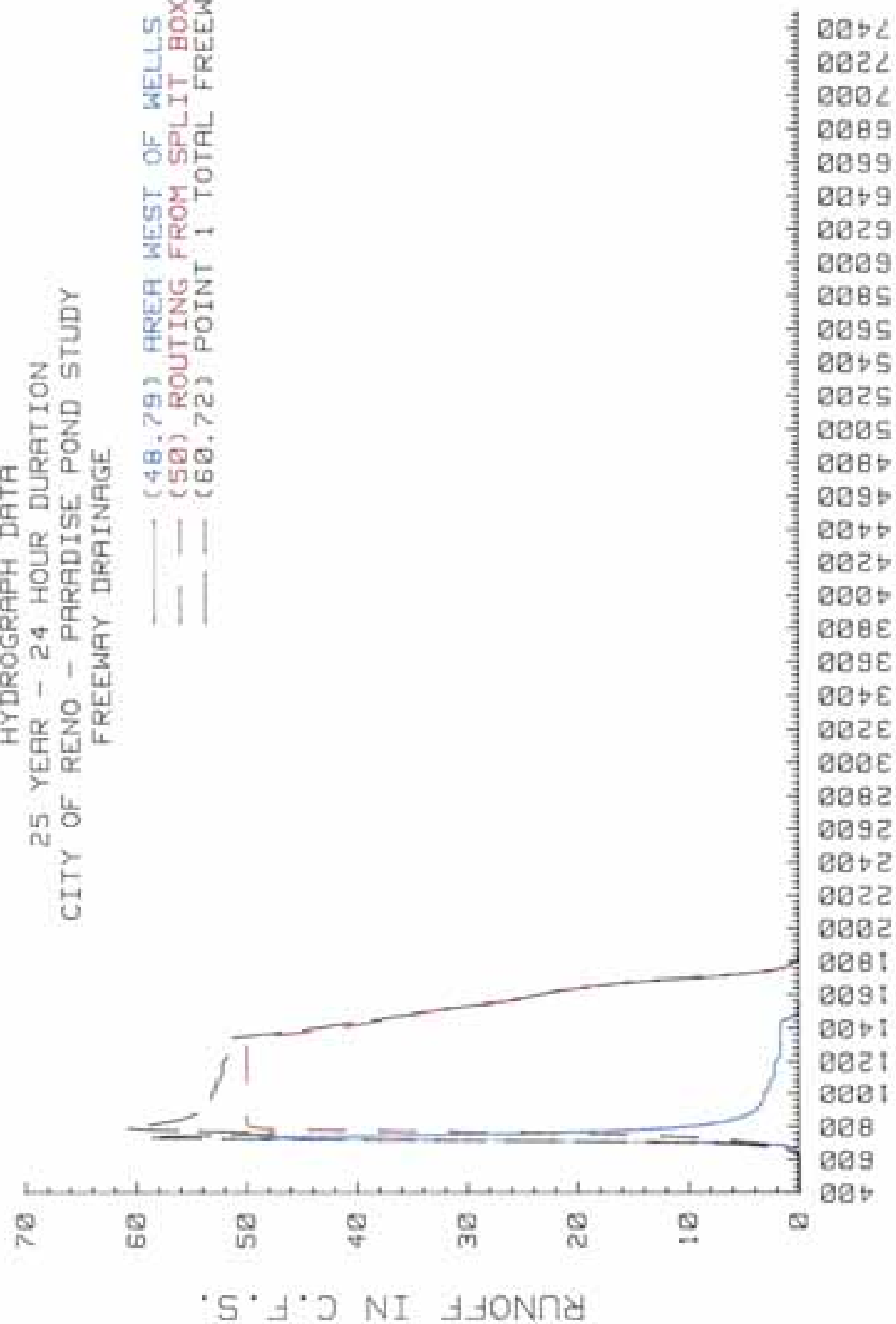
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SPLIT BOX @ WELLS AVE.

— (231.8) POINT 2 TOTAL INFLOW
— (58) POINT 3 TOTAL FREEWAY
— (181.8) POINT 4 TOTAL OUTFLOW



HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

— (48.79) AREA WEST OF WELLS
 - - (50) ROUTING FROM SPLIT BOX
 — (60.72) POINT 1 TOTAL FREEWAY

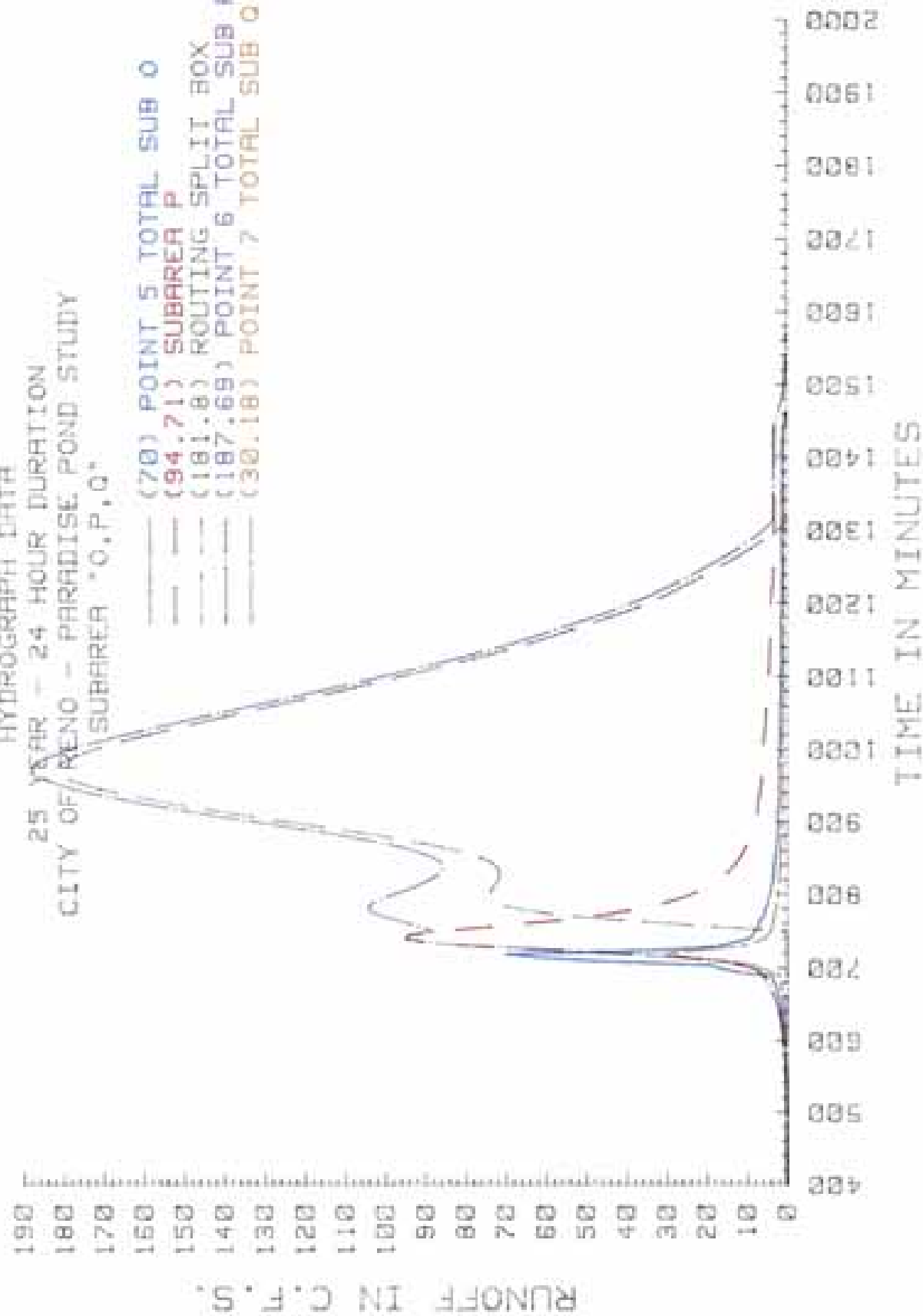


TIME IN MINUTES

RUNOFF IN C.F.S.

HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "O.P.O."

---	(70) POINT 5 TOTAL SUB O
---	(94.71) SUBAREA P
---	(181.8) ROUTING SPLIT BOX
---	(187.69) POINT 6 TOTAL SUB P
---	(30.18) POINT 7 TOTAL SUB Q



HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA K THROUGH M



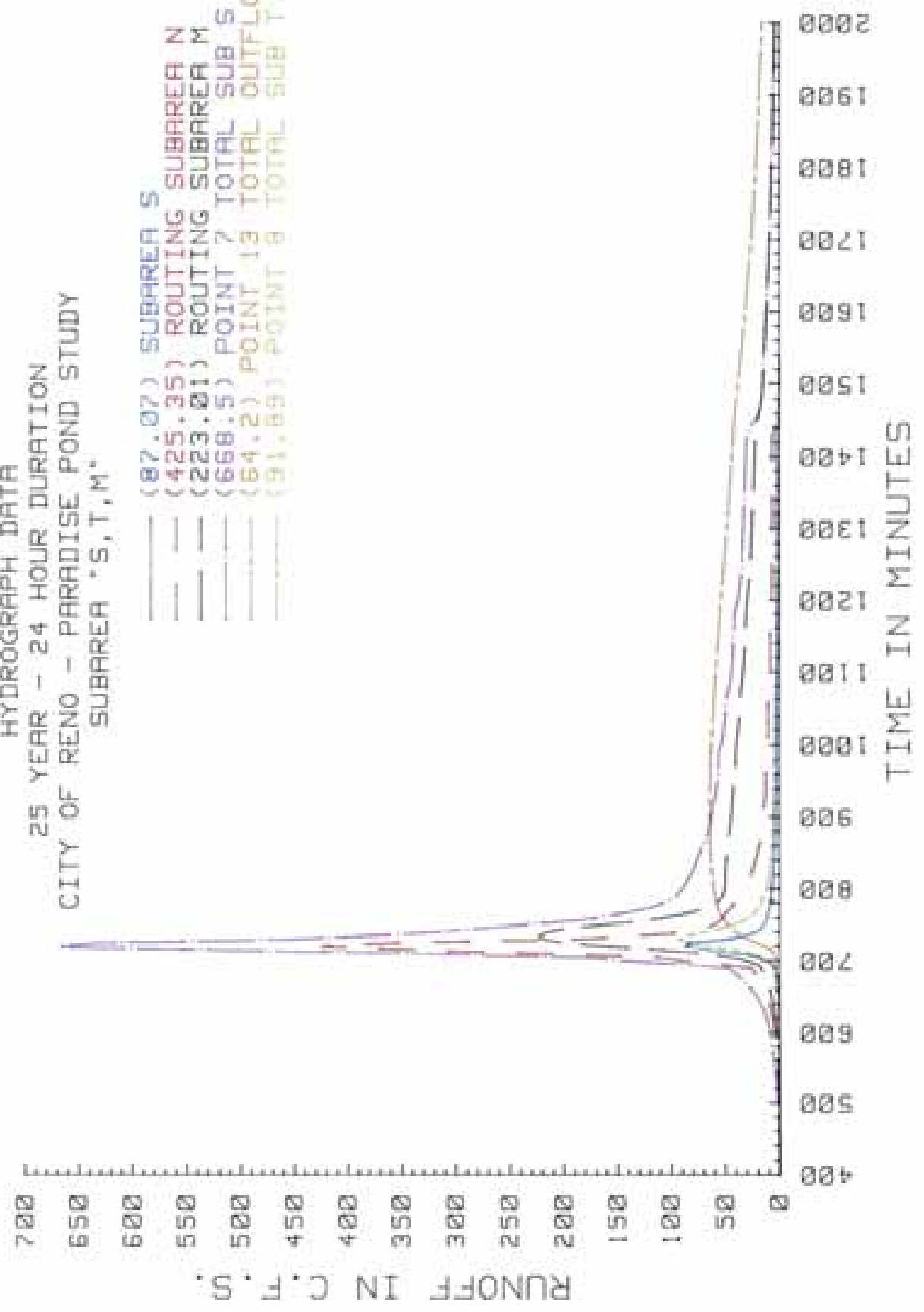
(209.81) POINT 9 TOTAL SUB K
 (29.83) POINT 10 TOTAL OUTFLOW
 (178.99) SUBAREA L
 (29.79) ROUTING DETENTION
 (179.3) POINT 11 TOTAL SUB L
 (132.53) SUBAREA M
 (154.55) ROUTING L
 (223.01) POINT 12 TOTAL SUB M

TIME IN MINUTES

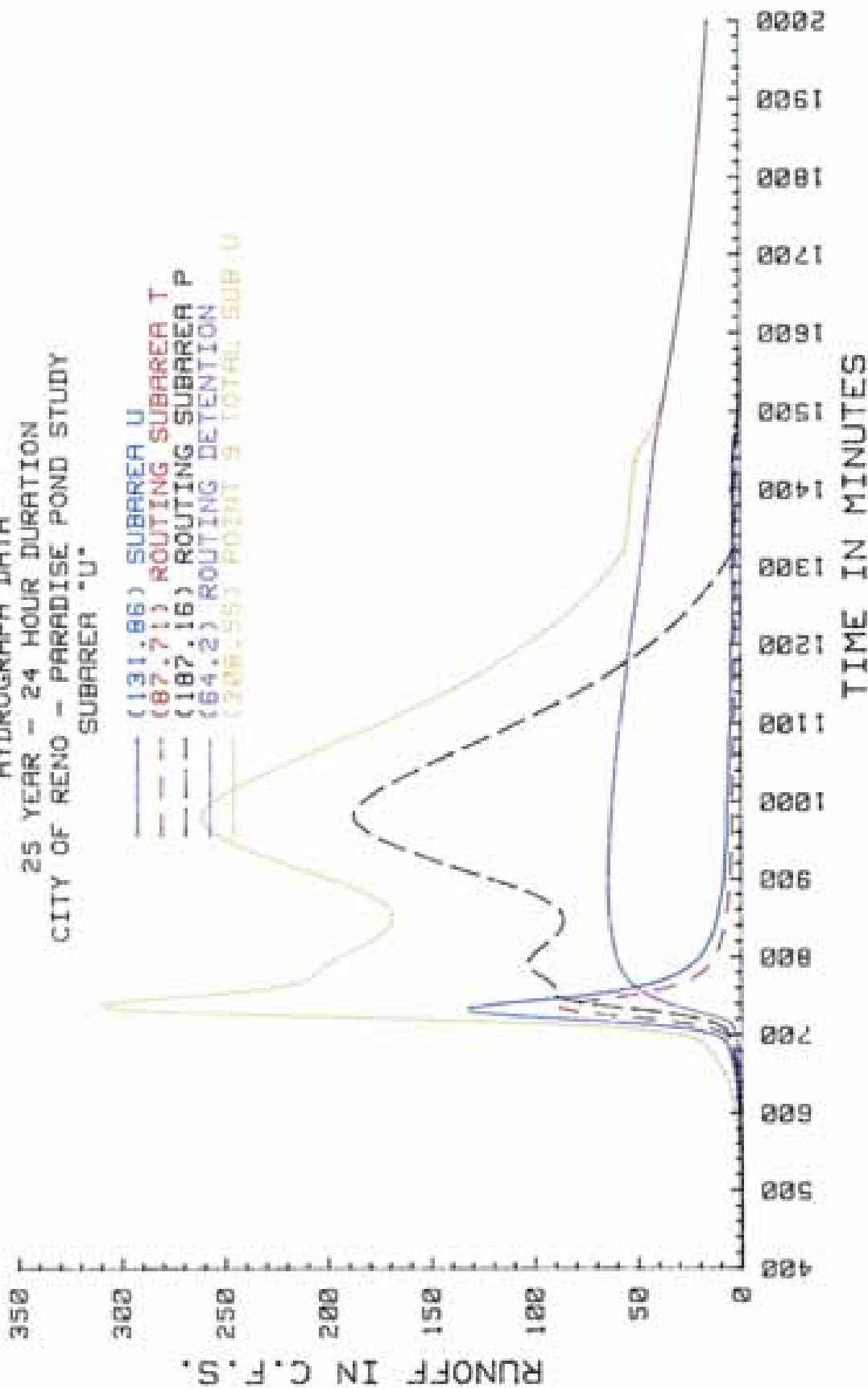
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
3000
3200
3400
3600
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
6200
6400
6600
6800
7000
7200
7400

HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S,T,M"

---	(87.07)	SUBAREA S
---	(425.35)	ROUTING SUBAREA N
---	(223.01)	ROUTING SUBAREA M
---	(668.5)	POINT 7 TOTAL SUB S
---	(84.2)	POINT 13 TOTAL OUTFLOW
---	(91.89)	POINT 8 TOTAL SUB T

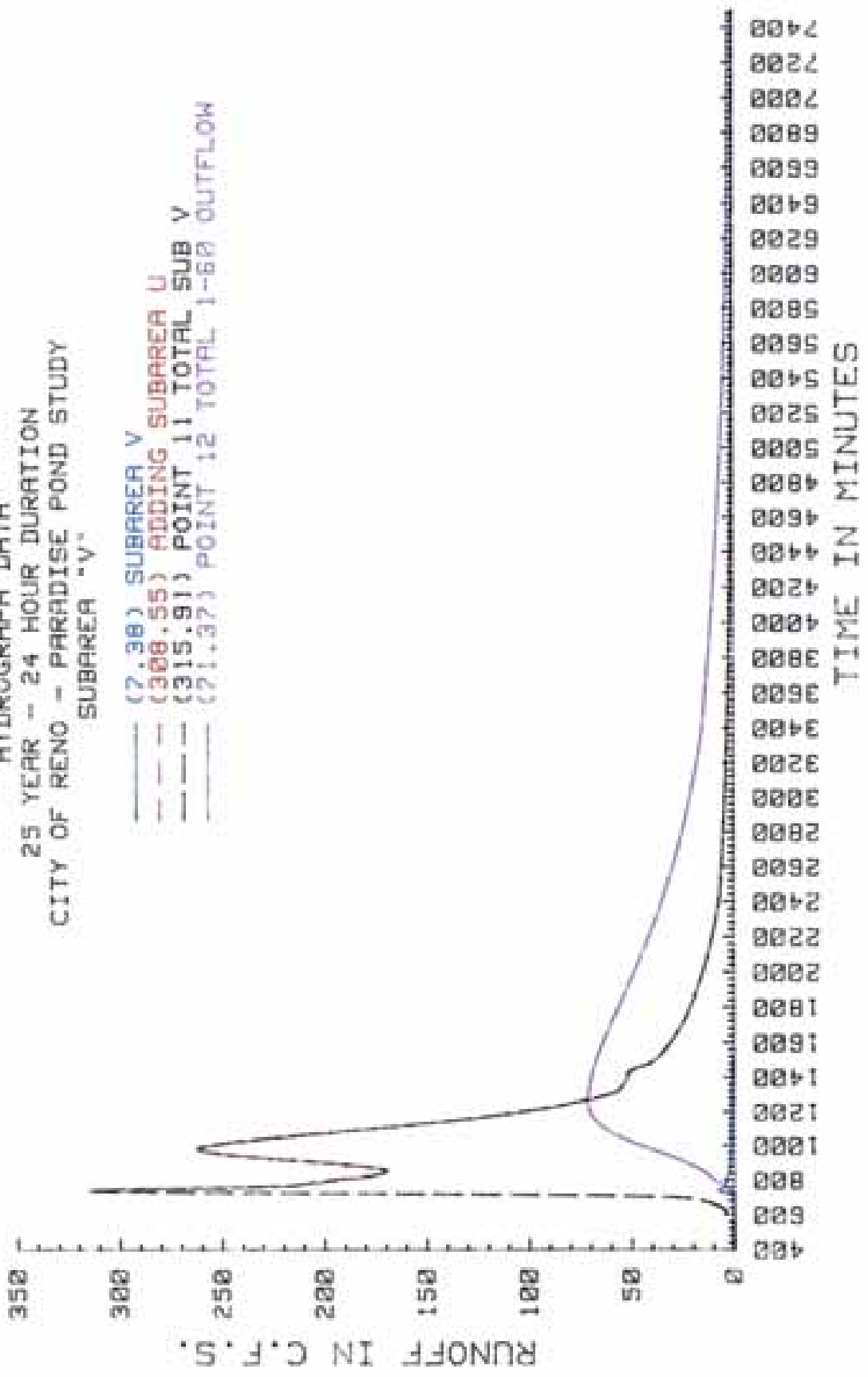


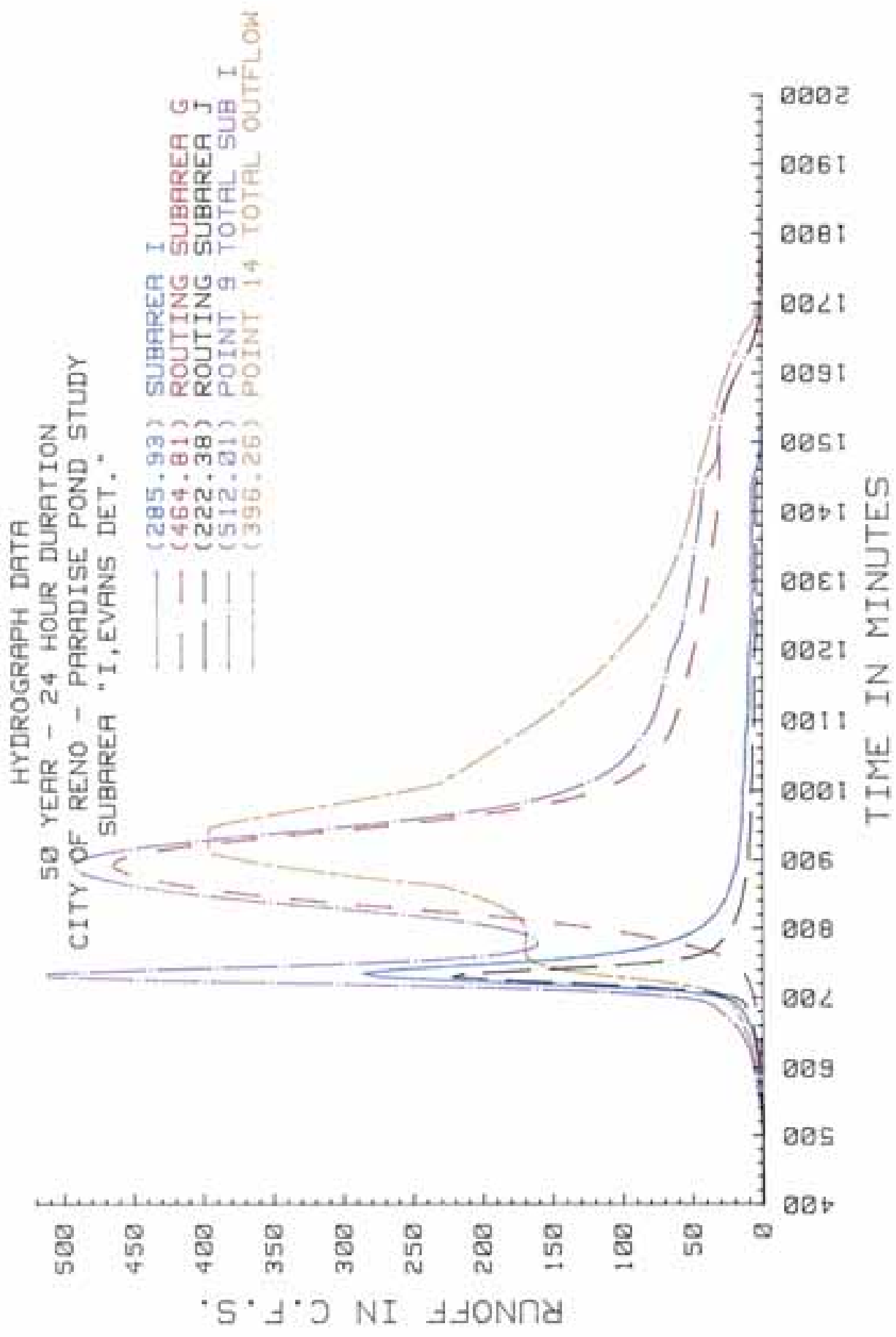
HYDROGRAPH DATA
25 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "U"

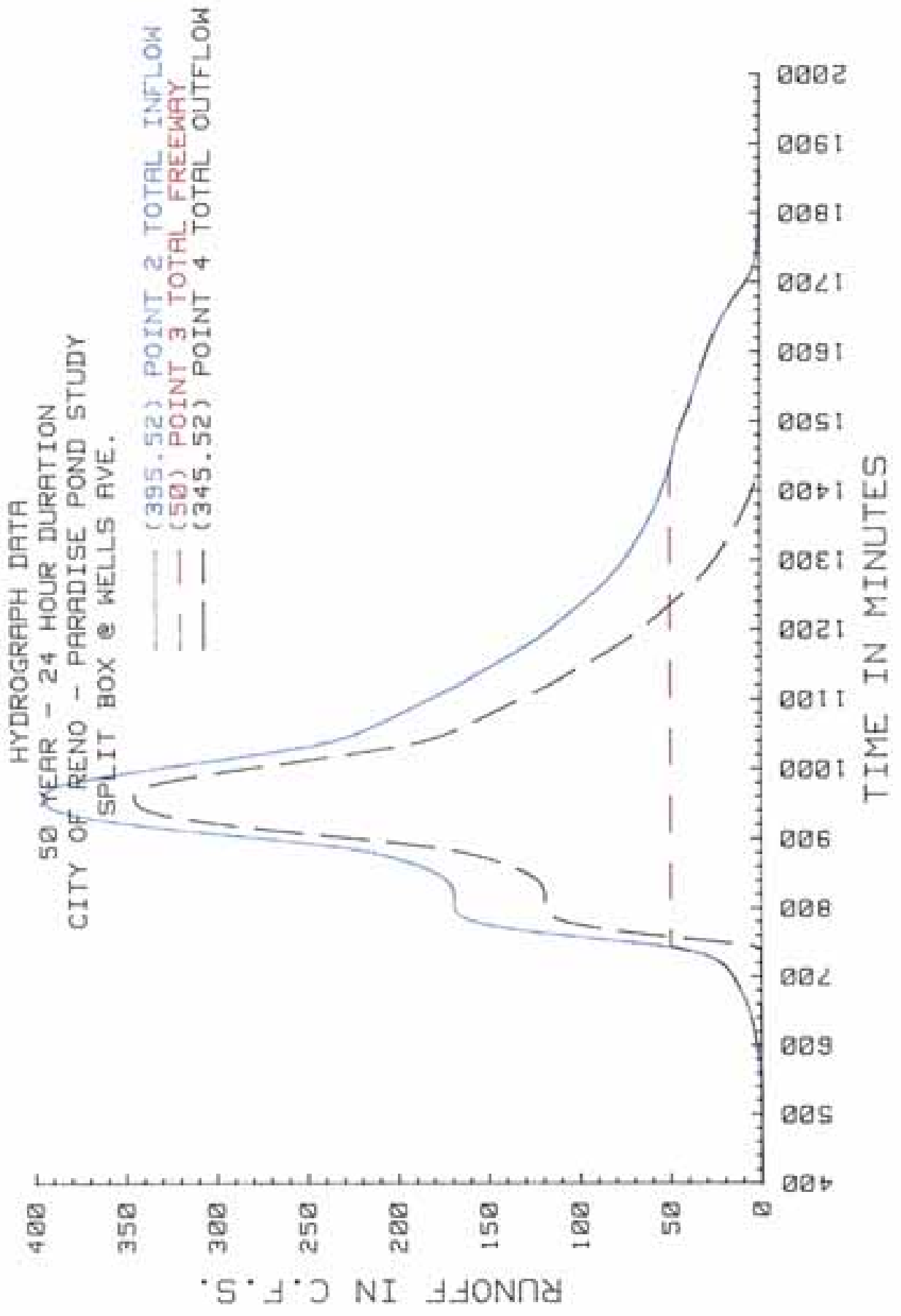


HYDROGRAPH DATA
 25 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

(7.38) SUBAREA V
 (308.55) ADDING SUBAREA U
 (315.91) POINT 11 TOTAL SUB V
 (71.37) POINT 12 TOTAL 1-60 OUTFLOW

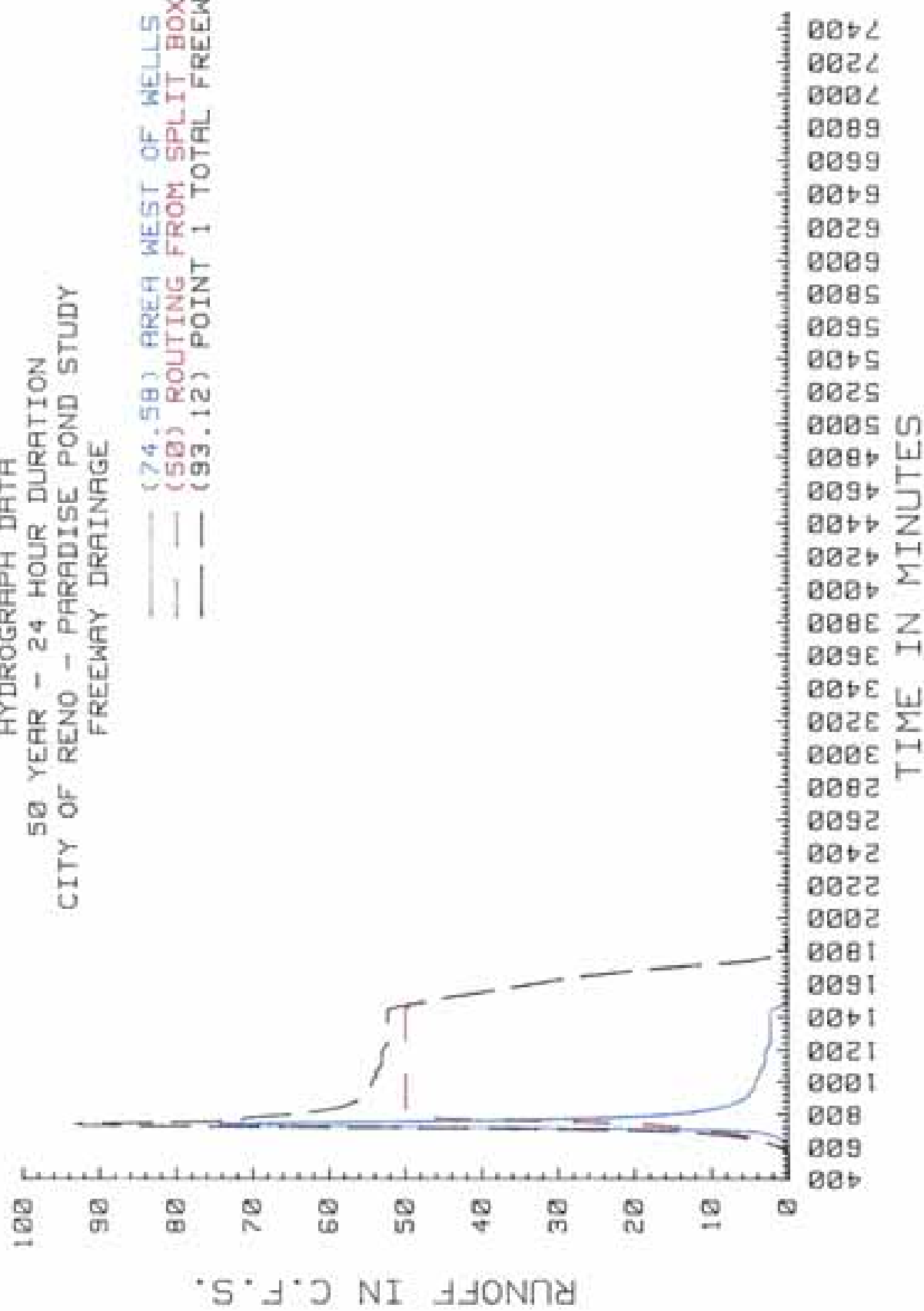






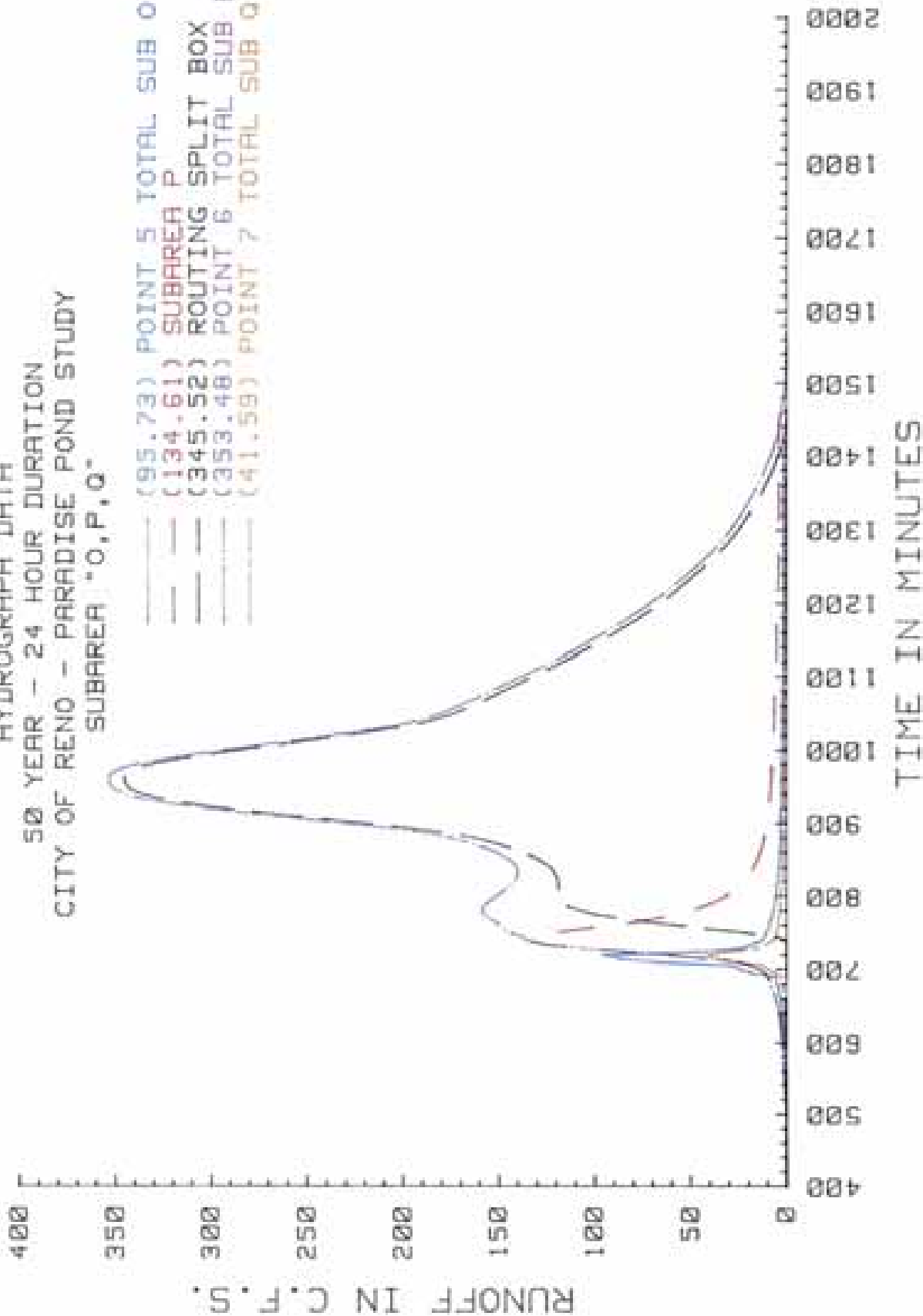
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
FREEWAY DRAINAGE

— (74.58) AREA WEST OF WELLS
— (50) ROUTING FROM SPLIT BOX
— (93.12) POINT 1 TOTAL FREEWAY



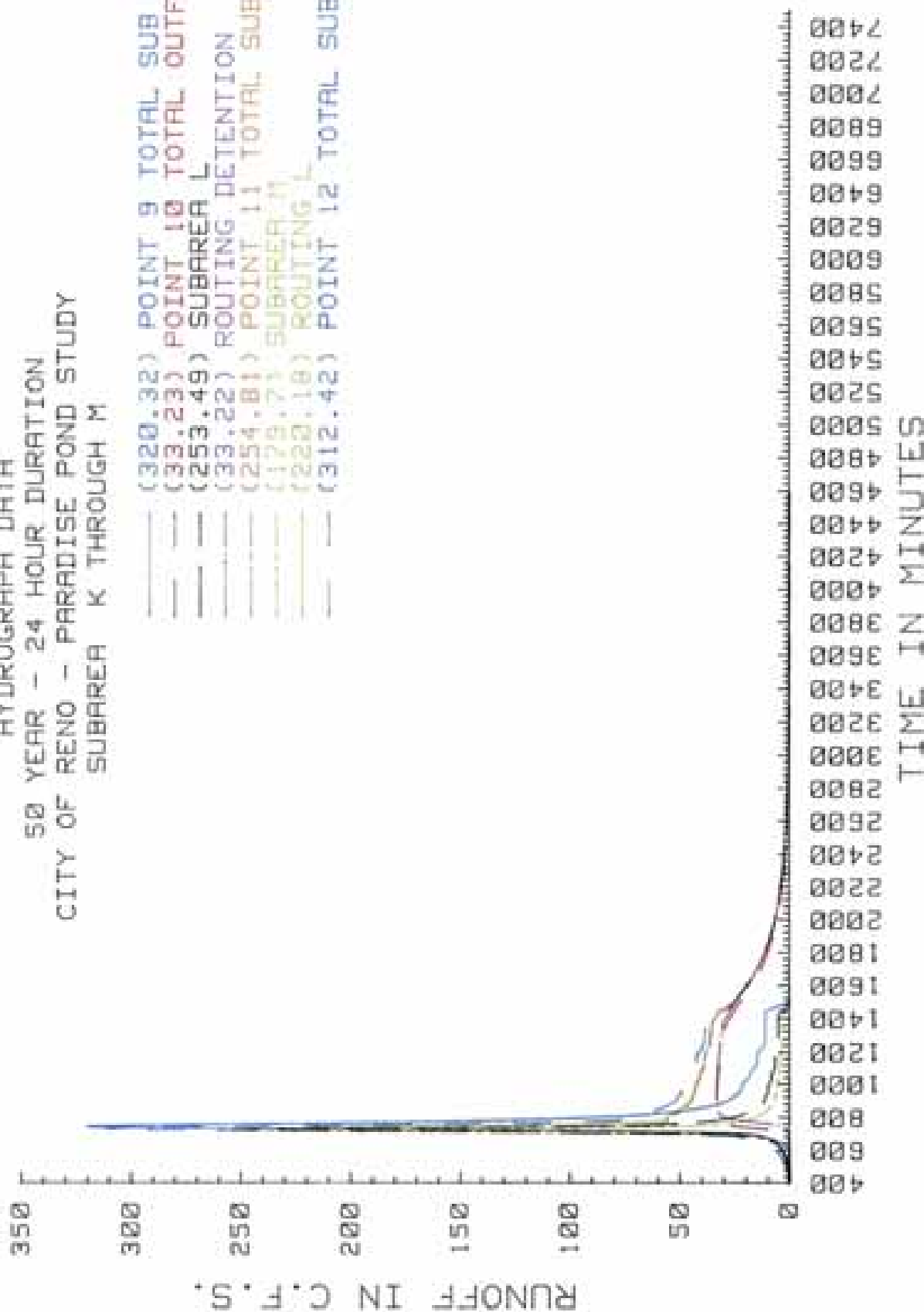
HYDROGRAPH DATA
50 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "O,P,Q"

- (95.73) POINT 5 TOTAL SUB O
- (134.61) SUBAREA P
- (345.52) ROUTING SPLIT BOX
- (353.48) POINT 6 TOTAL SUB P
- (41.59) POINT 7 TOTAL SUB Q



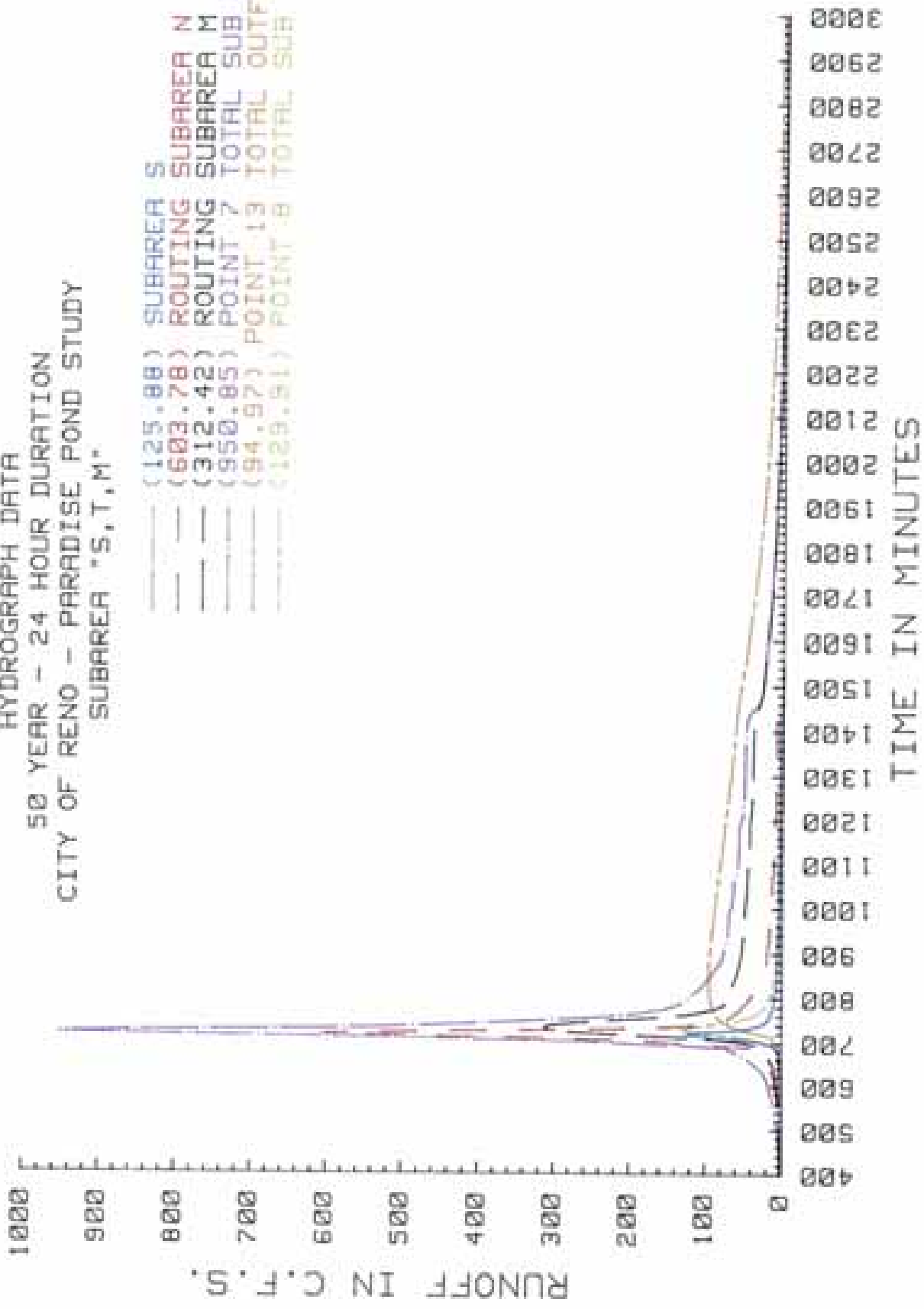
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA K THROUGH M

---	(320.32) POINT 9 TOTAL SUB K	
---	(33.23) POINT 10 TOTAL OUTFLOW	
---	(253.49) SUBAREA L	
---	(33.22) ROUTING DETENTION	
---	(254.81) POINT 11 TOTAL SUB L	
---	(179.7) SUBAREA M	
---	(220.16) ROUTING L	
---	(312.42) POINT 12 TOTAL SUB M	



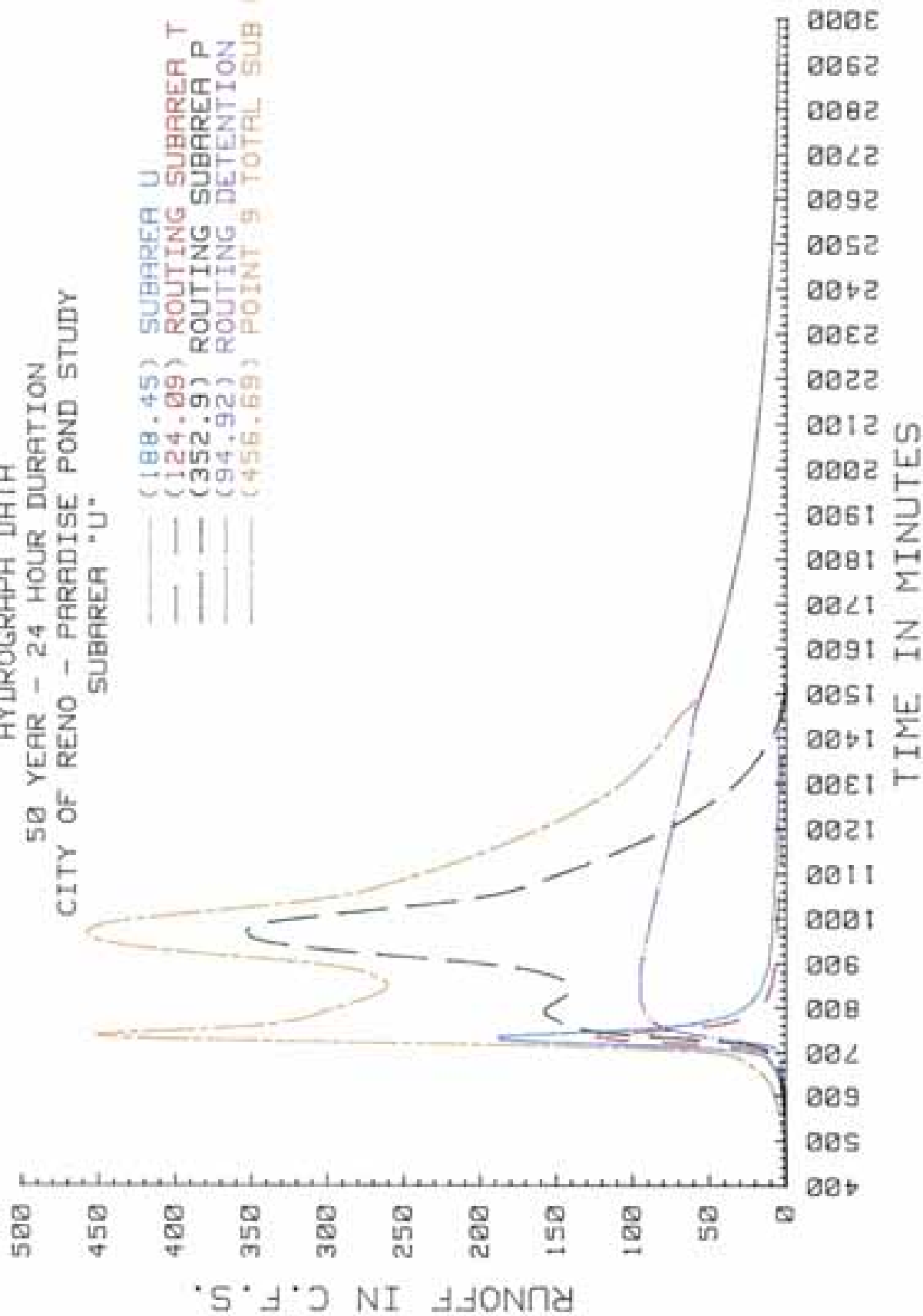
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "S, T, M"

(125.88) SUBAREA S
 (603.78) ROUTING SUBAREA N
 (312.42) ROUTING SUBAREA M
 (950.85) POINT 7 TOTAL SUB S
 (94.97) POINT 13 TOTAL OUTFLOW
 (129.91) POINT 8 TOTAL SUB T



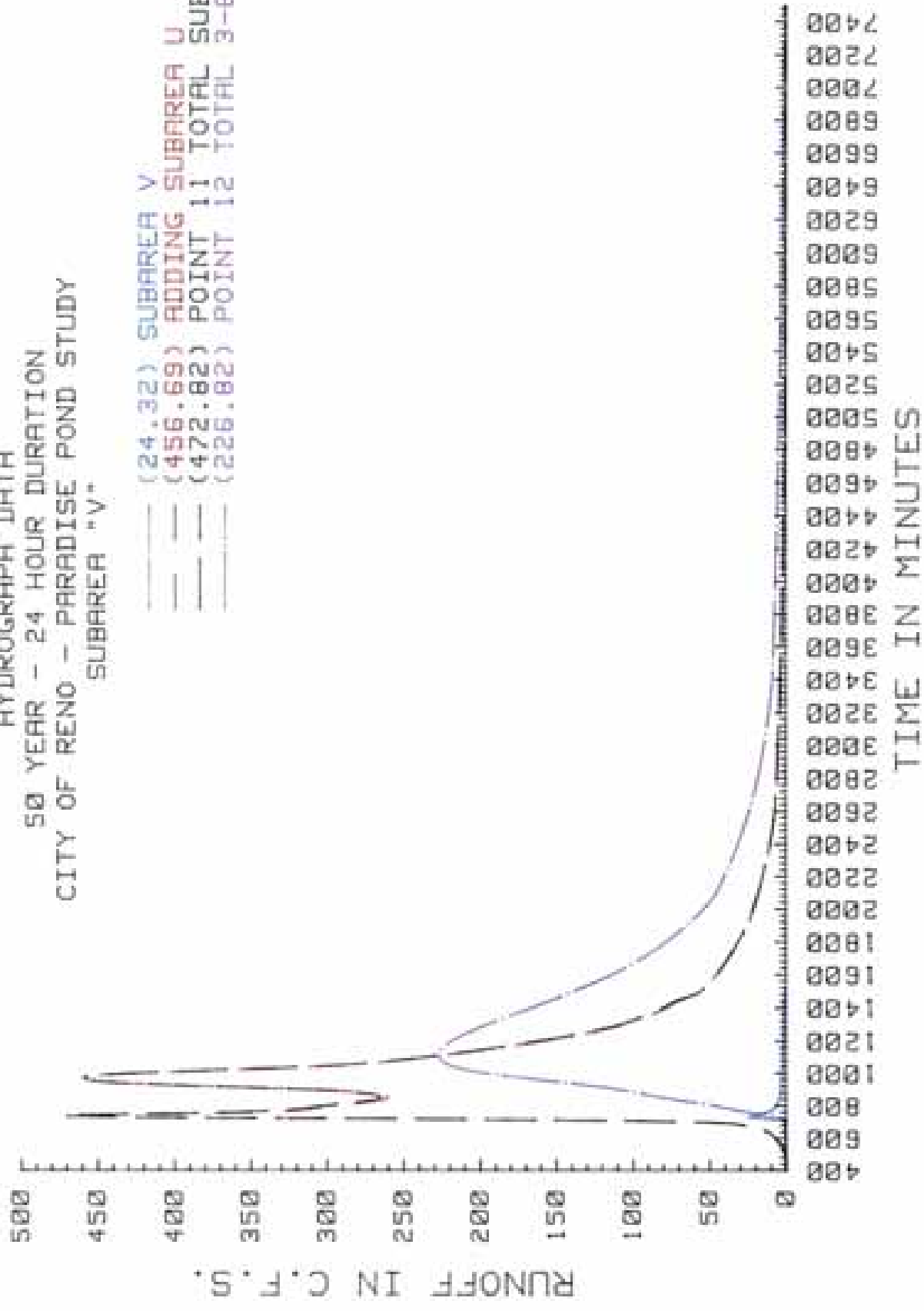
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "U"

(188.45) SUBAREA U
 (124.09) ROUTING SUBAREA T
 (352.9) ROUTING SUBAREA P
 (94.92) ROUTING DETENTION
 (456.69) POINT 9 TOTAL SUB U



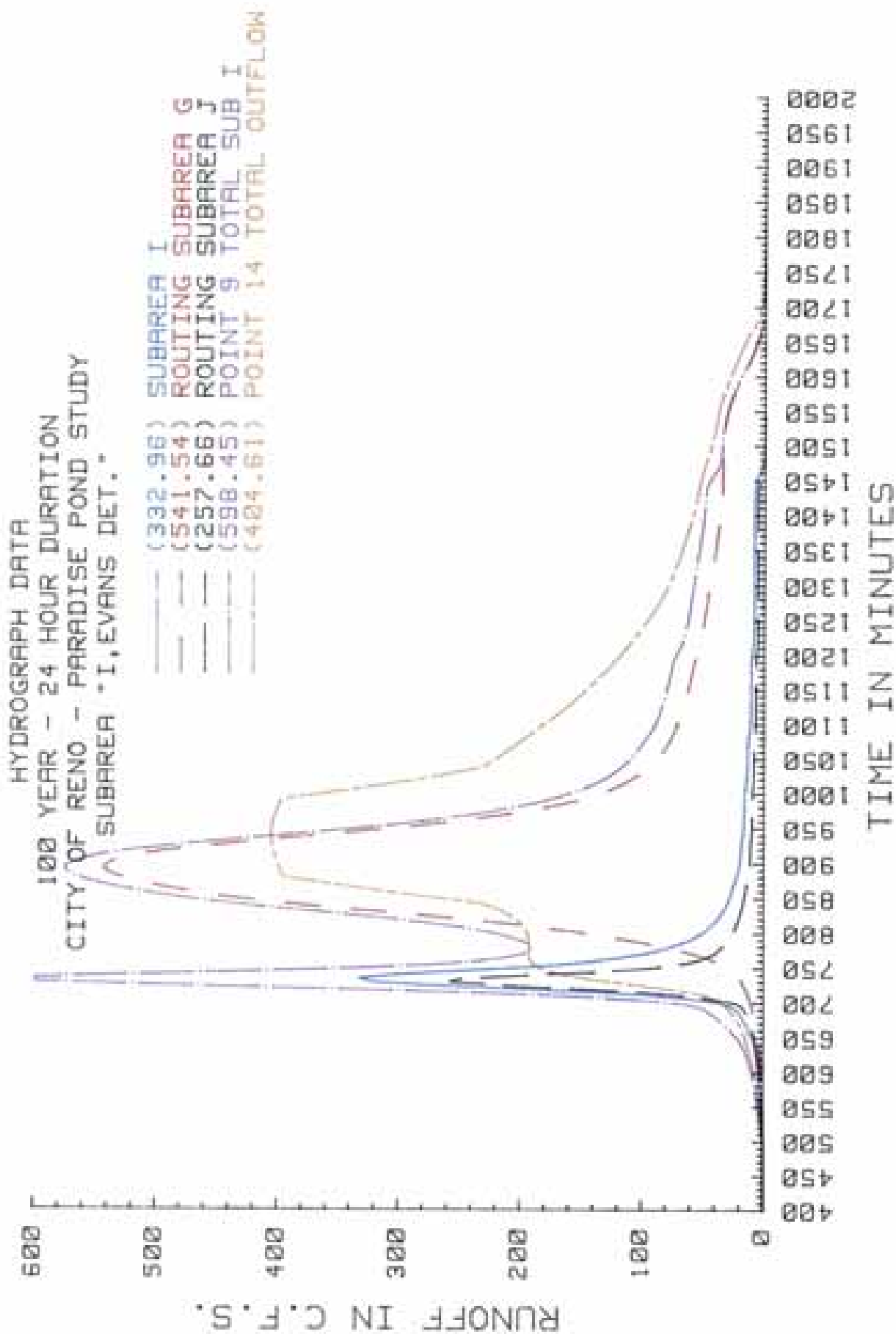
HYDROGRAPH DATA
 50 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

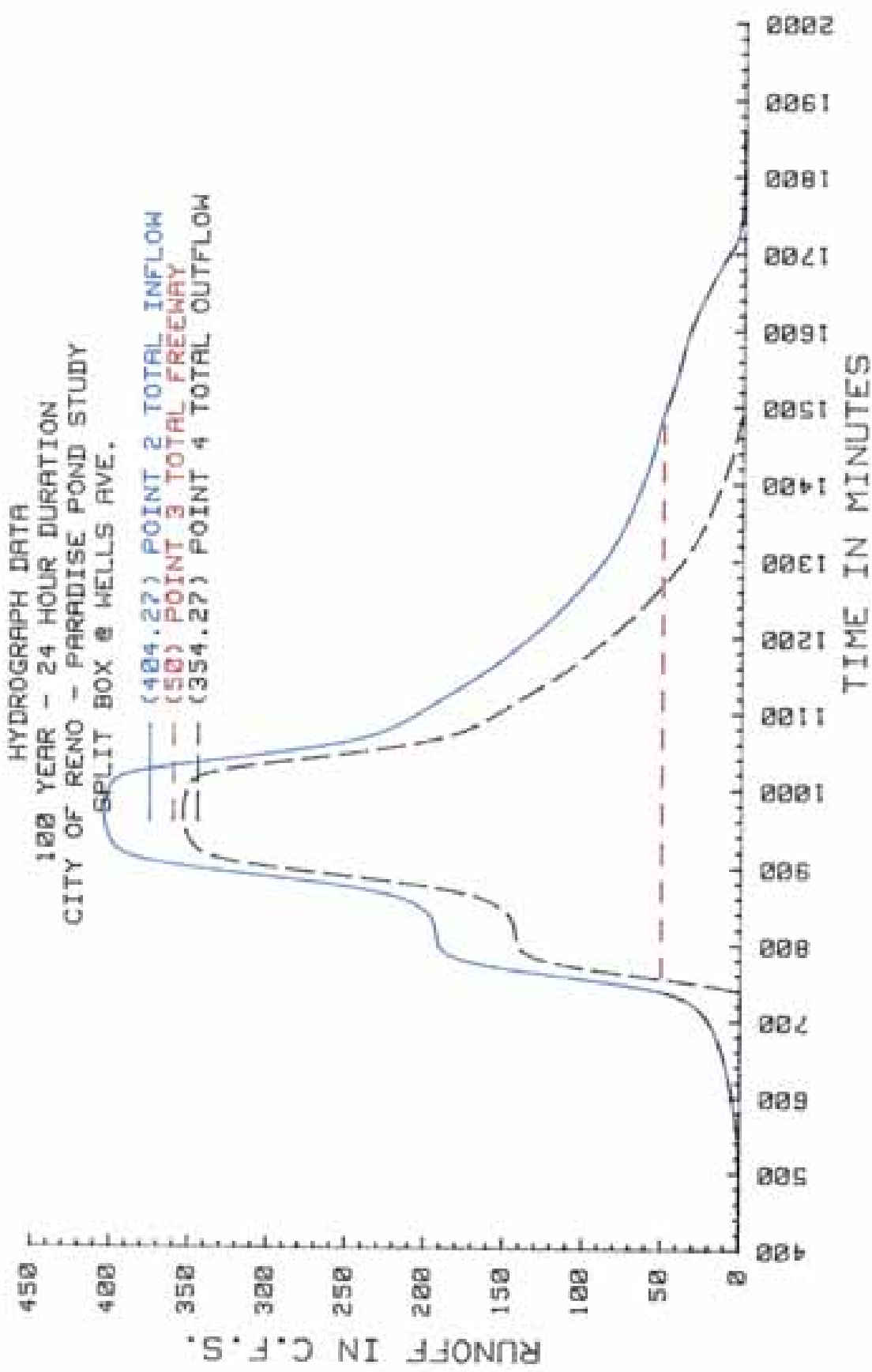
(24.32) SUBAREA V
 (456.69) ADDING SUBAREA U
 (472.82) POINT 11 TOTAL SUB V
 (226.82) POINT 12 TOTAL 3-60 OUT



TIME IN MINUTES

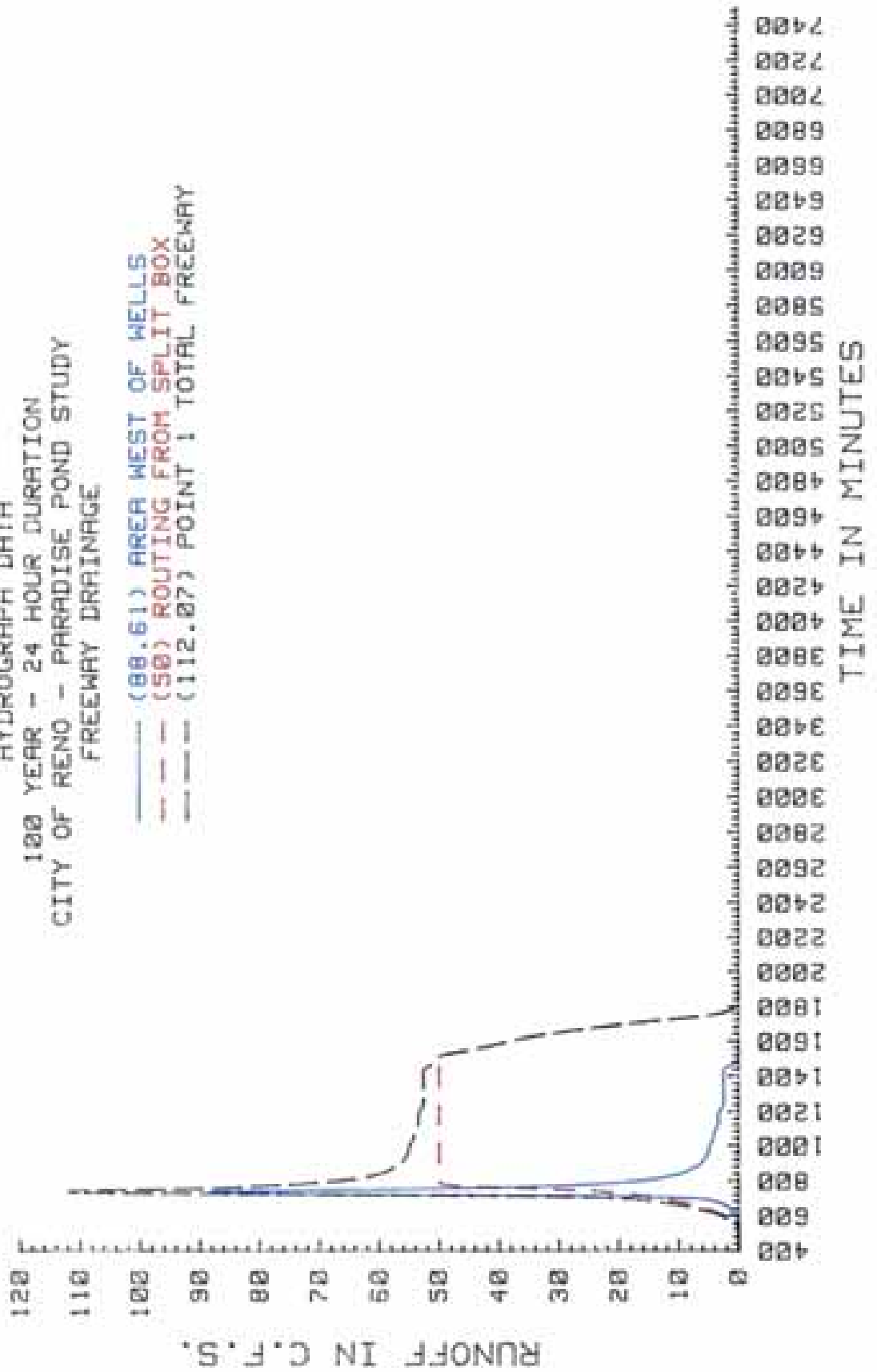
RUNOFF IN C.F.S.

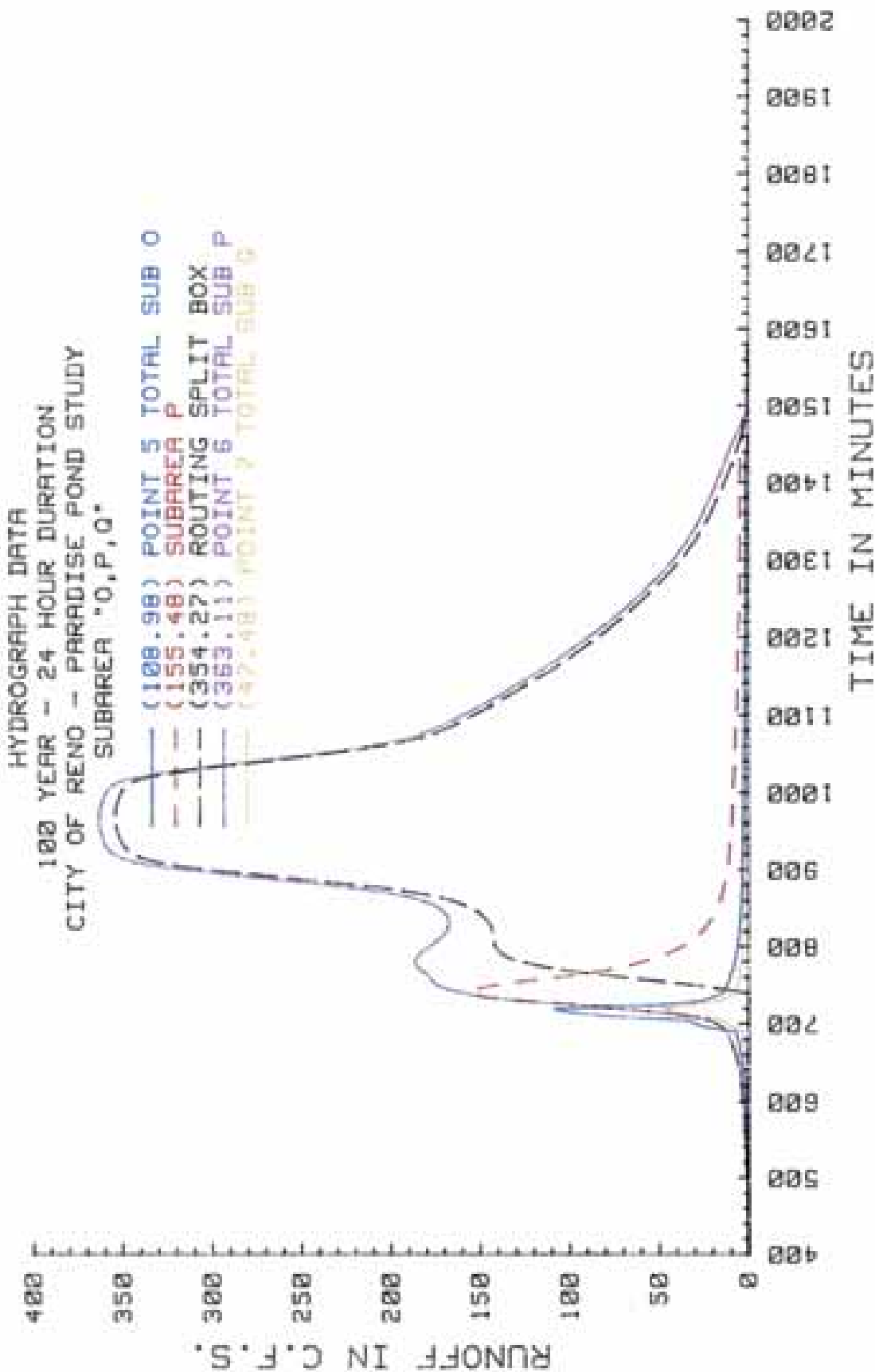




HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 FREEWAY DRAINAGE

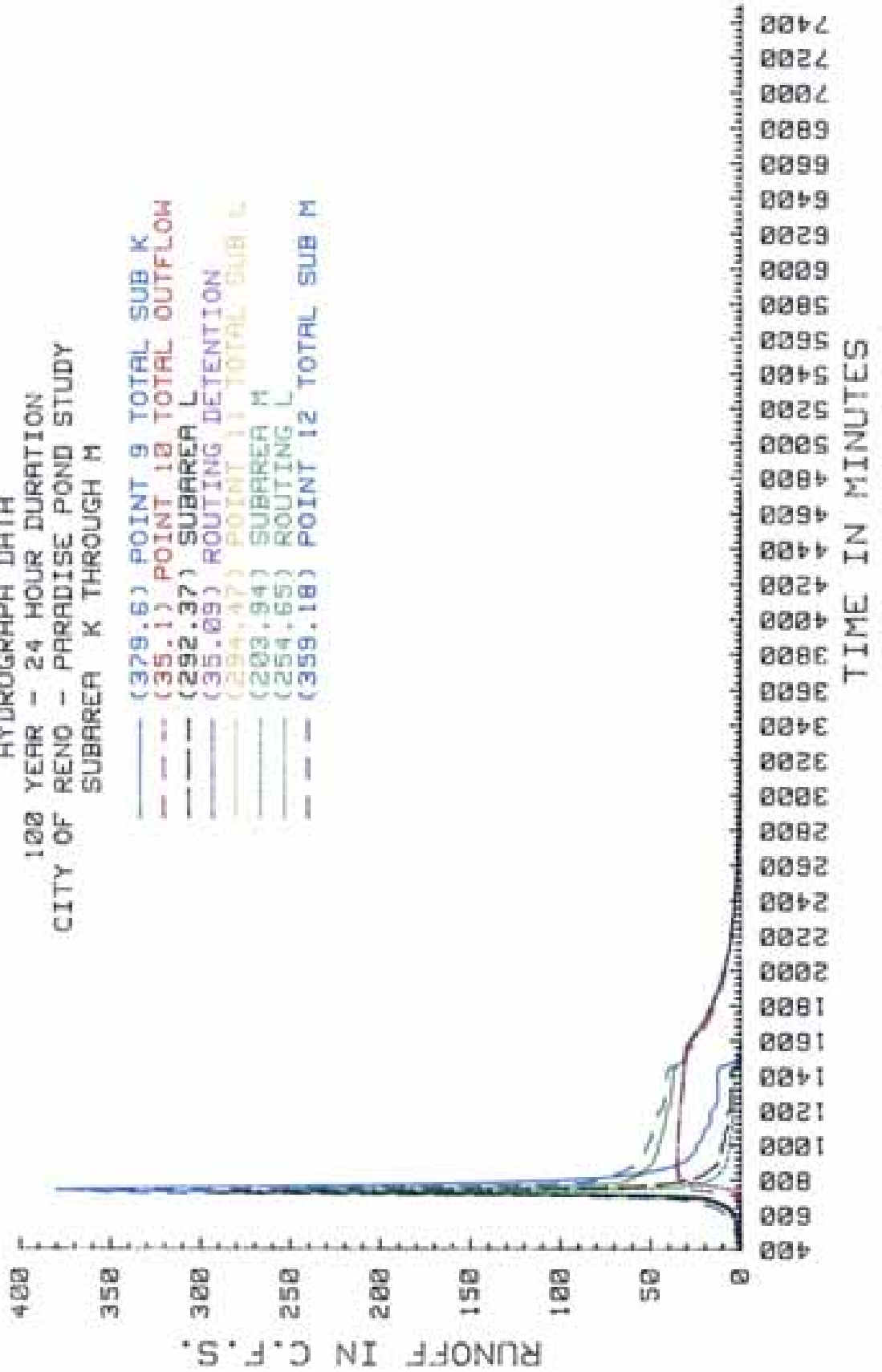
(88.61) AREA WEST OF WELLS
 (50) ROUTING FROM SPLIT BOX
 (112.07) POINT 1 TOTAL FREEWAY





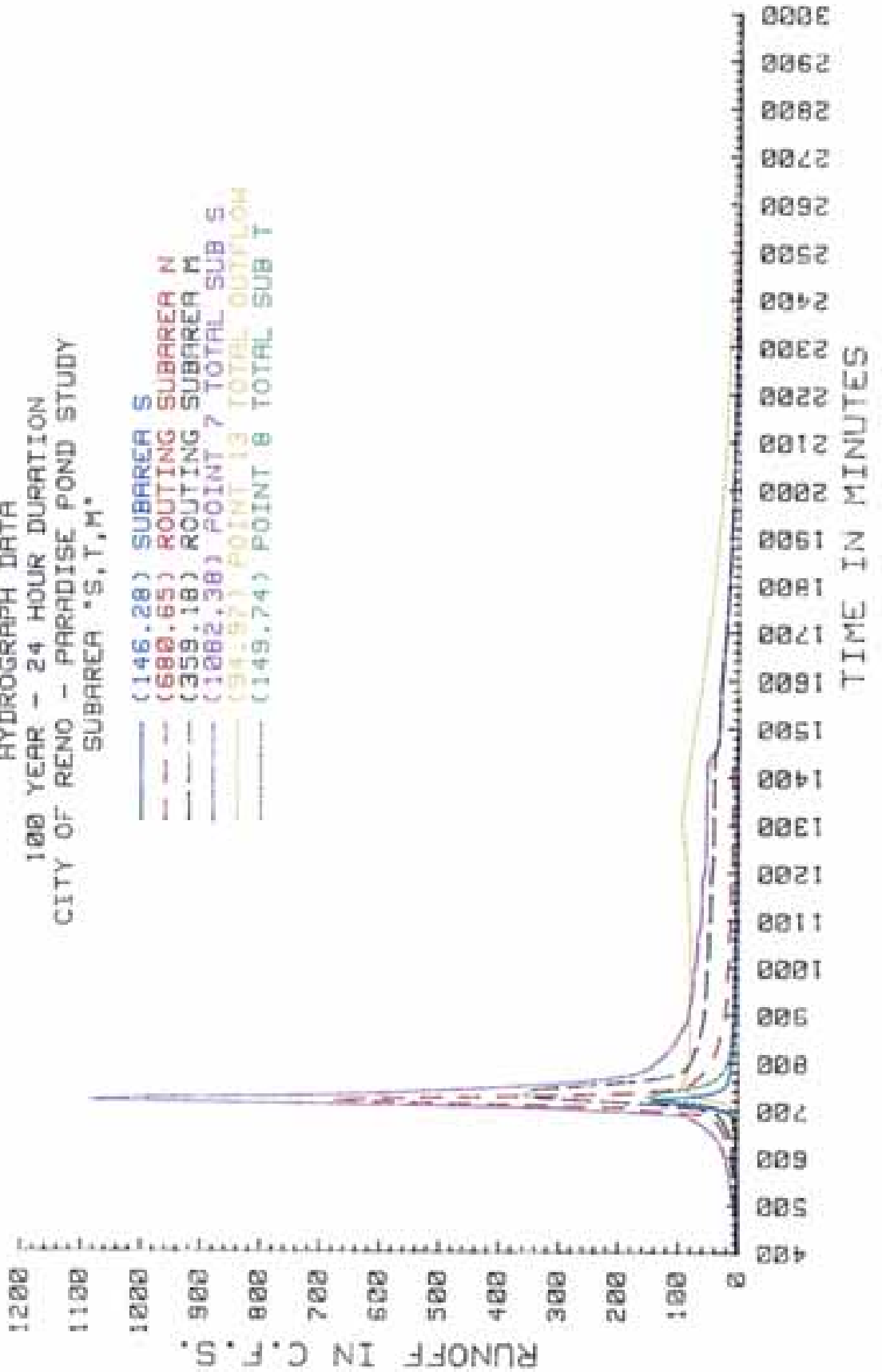
HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA K THROUGH M

(379.6) POINT 9 TOTAL SUB K
 (35.1) POINT 18 TOTAL OUTFLOW
 (292.37) SUBAREA L
 (35.89) ROUTING DETENTION
 (294.47) POINT 11 TOTAL SUB L
 (203.94) SUBAREA M
 (254.65) ROUTING L
 (359.18) POINT 12 TOTAL SUB M



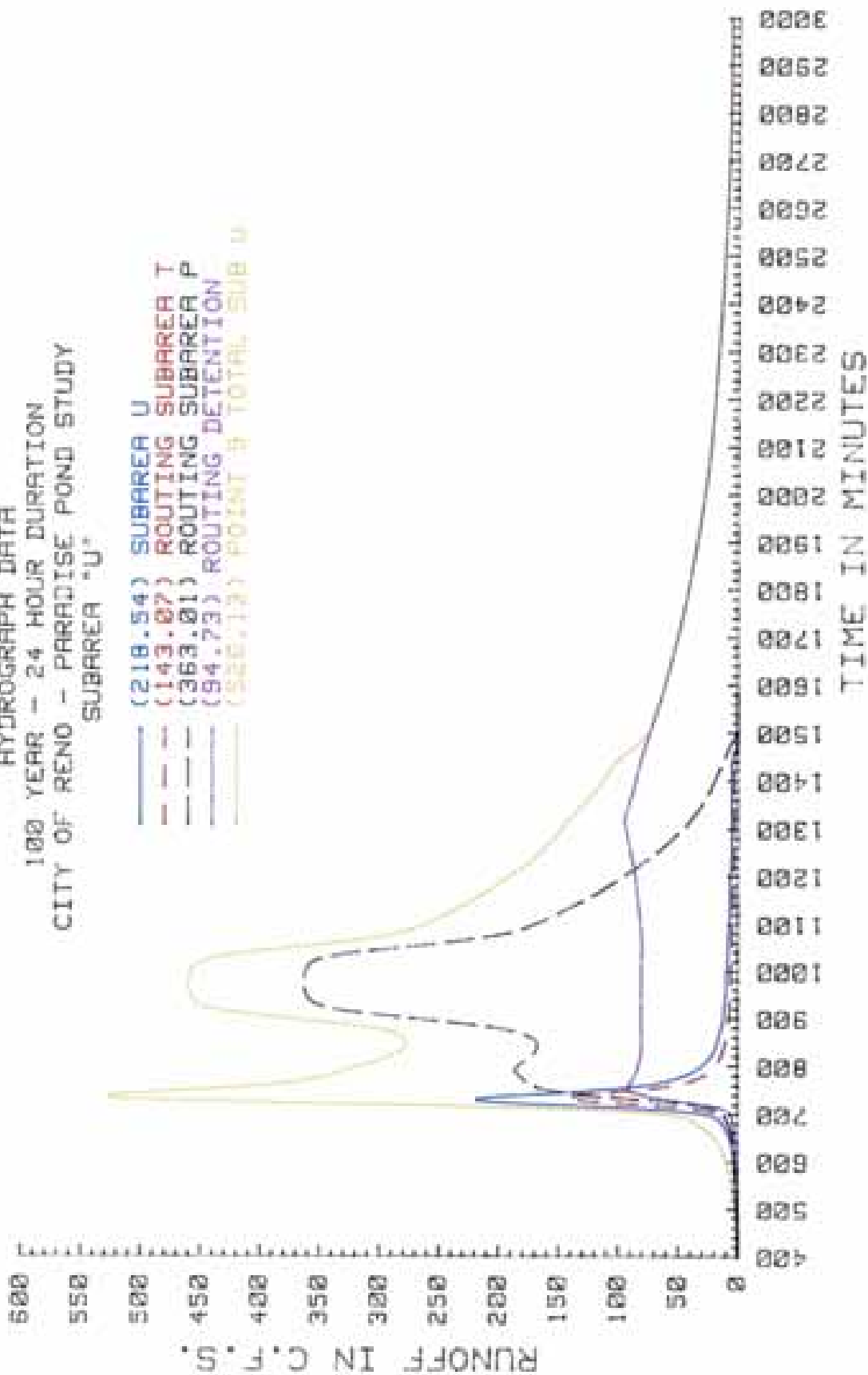
HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "S,T,M"

- (146.28) SUBAREA S
- (680.65) ROUTING SUBAREA N
- (359.18) ROUTING SUBAREA M
- (1082.38) POINT 7 TOTAL SUB S
- (54.57) POINT 13 TOTAL OUTFLOW
- (149.74) POINT 8 TOTAL SUB T



HYDROGRAPH DATA
100 YEAR - 24 HOUR DURATION
CITY OF RENO - PARADISE POND STUDY
SUBAREA "U"

- (218.54) SUBAREA U
- (143.87) ROUTING SUBAREA T
- (363.81) ROUTING SUBAREA P
- (94.73) ROUTING DETENTION
- (526.13) POINT # TOTAL SUB U



HYDROGRAPH DATA
 100 YEAR - 24 HOUR DURATION
 CITY OF RENO - PARADISE POND STUDY
 SUBAREA "V"

(35.48) SUBAREA V
 (526.13) ADDING SUBAREA U
 (560.13) POINT 11 TOTAL SUB V
 (277.57) POINT 12 TOTAL 3-66 OUTFLOW

