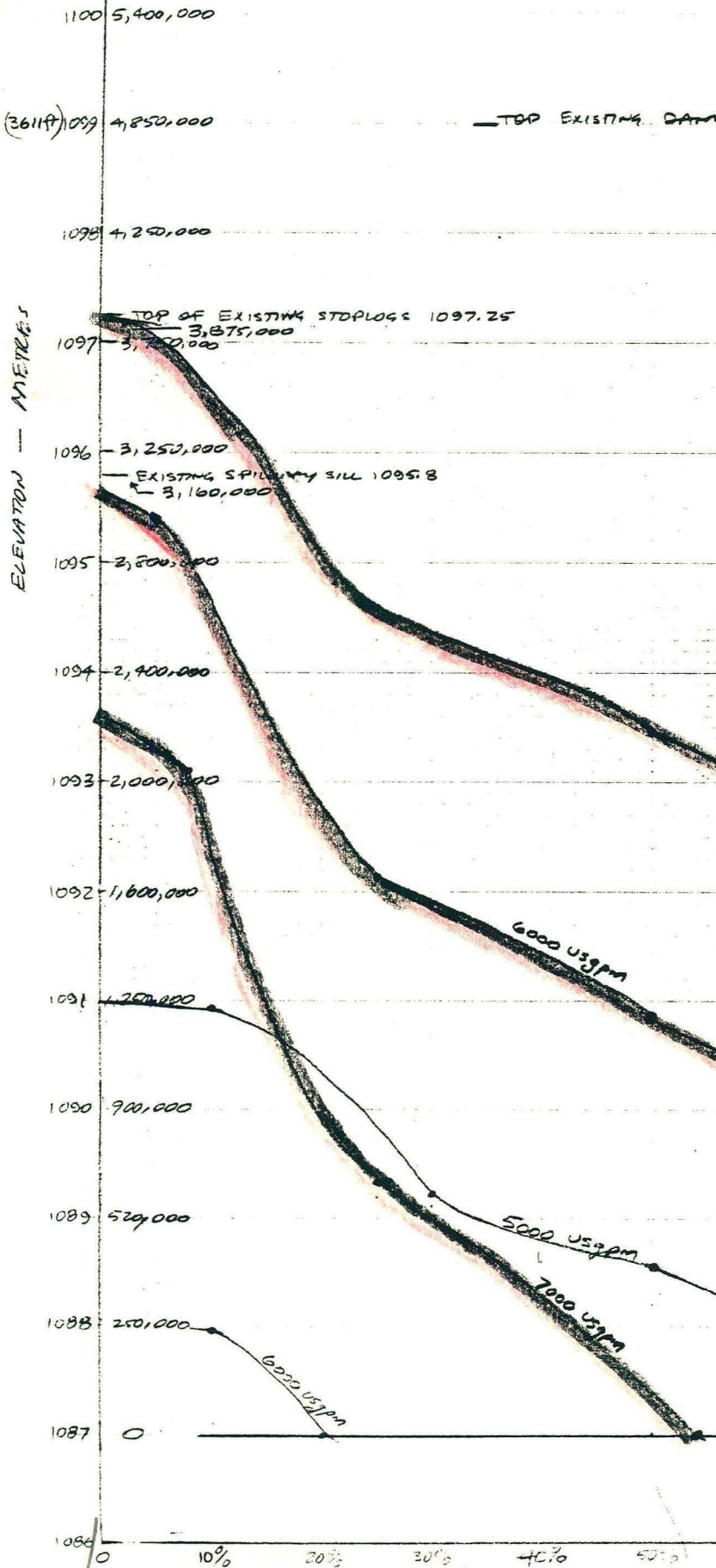


APPROXIMATE LIVE STORAGE  
RESERVOIR  
VOLUME - M<sup>3</sup>

EXISTING DAM



RESERVOIR LEVEL  
PROBABILITY CURVE  
FOR SHORT TERM OPERATION  
6 MONTHS TO APRIL 30th 1987

NOTES:

1. BASED ON 24 YEAR RECORDS SIMULATION OF OPERATION
2. ~~NO~~ RIPARIAN "FISH" FLOW
3. MILL DEMAND OF 0.446 M<sup>3</sup>/sec (7000 USgpm) COMMENCE NOVEMBER 1st - MAXIMUM
4. INITIAL WATER LEVEL: 1097.25 TOP OF STOPLOGS ON NOVEMBER 1st.
5. LIVE STORAGE FIGURE 6 ACRES MARCH 1985 REPORT

N.B.

WATER LICENSE AMENDMENT APPLICATION IS FOR 9.43 M<sup>3</sup>/sec OR 6,550 USgpm  $\approx$  7850 USgpm

LEGEND

- 6000 USgpm RESERVOIR ONLY
- 7000 USgpm RESERVOIR + NORTH FORK ROSE CREEK

MINIMUM SHUTDOWN LEVEL

APPROX LIVE STORAGE RESERVOIR VOLUME - M<sup>3</sup>

2.0 M RAISING

(3617.5) 1101

— TOP RAISED DAM

1100 - 5,400,000

(3611ft) 1099 - 4,850,000

— TOP EXISTING DAM

1098 - 4,250,000

1097 - 3,750,000

1096 - 3,250,000

1095 - 2,800,000

1094 - 2,400,000

1093 - 2,000,000

1092 - 1,600,000

1091 - 1,250,000

1090 - 900,000

1089 - 520,000

1088 - 250,000

1087

1086

RESERVOIR LEVEL PROBABILITY CURVE FOR SHORT TERM OPERATION

6 MONTHS TO APRIL 30/87

NOTES:

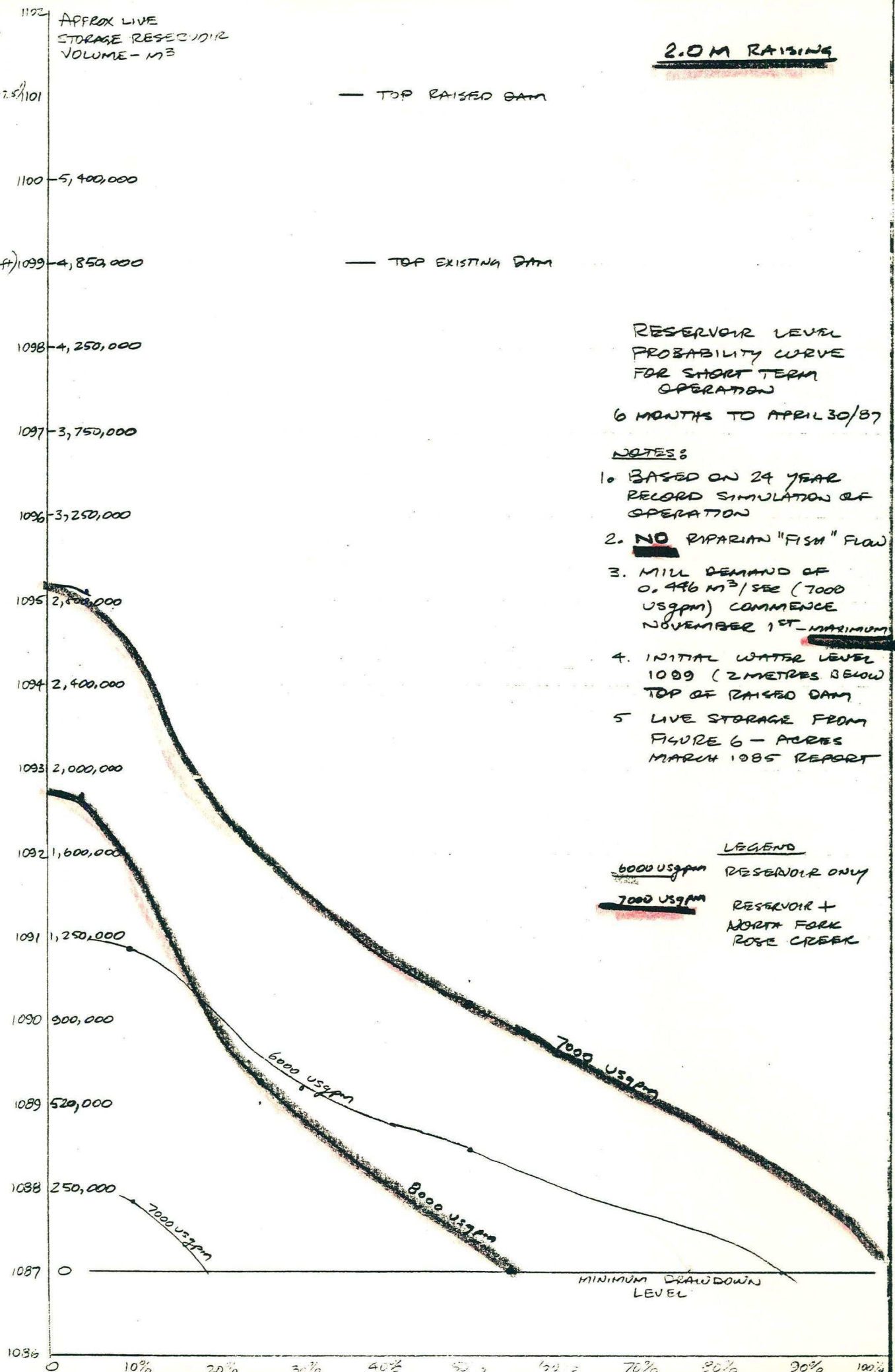
1. BASED ON 24 YEAR RECORD SIMULATION OF OPERATION
2. **NO** RIPARIAN "FISH" FLOW
3. MILL DEMAND OF 0.446 M<sup>3</sup>/SEC (7000 USGPM) COMMENCE NOVEMBER 1<sup>ST</sup> - MAXIMUM
4. INITIAL WATER LEVEL 1099 (2 METRES BELOW TOP OF RAISED DAM)
5. LIVE STORAGE FROM FIGURE 6 - APRIL MARCH 1985 REPORT

LEGEND

- 6000 USGPM RESERVOIR ONLY
- 7000 USGPM RESERVOIR + NORTH FORK ROSE CREEK

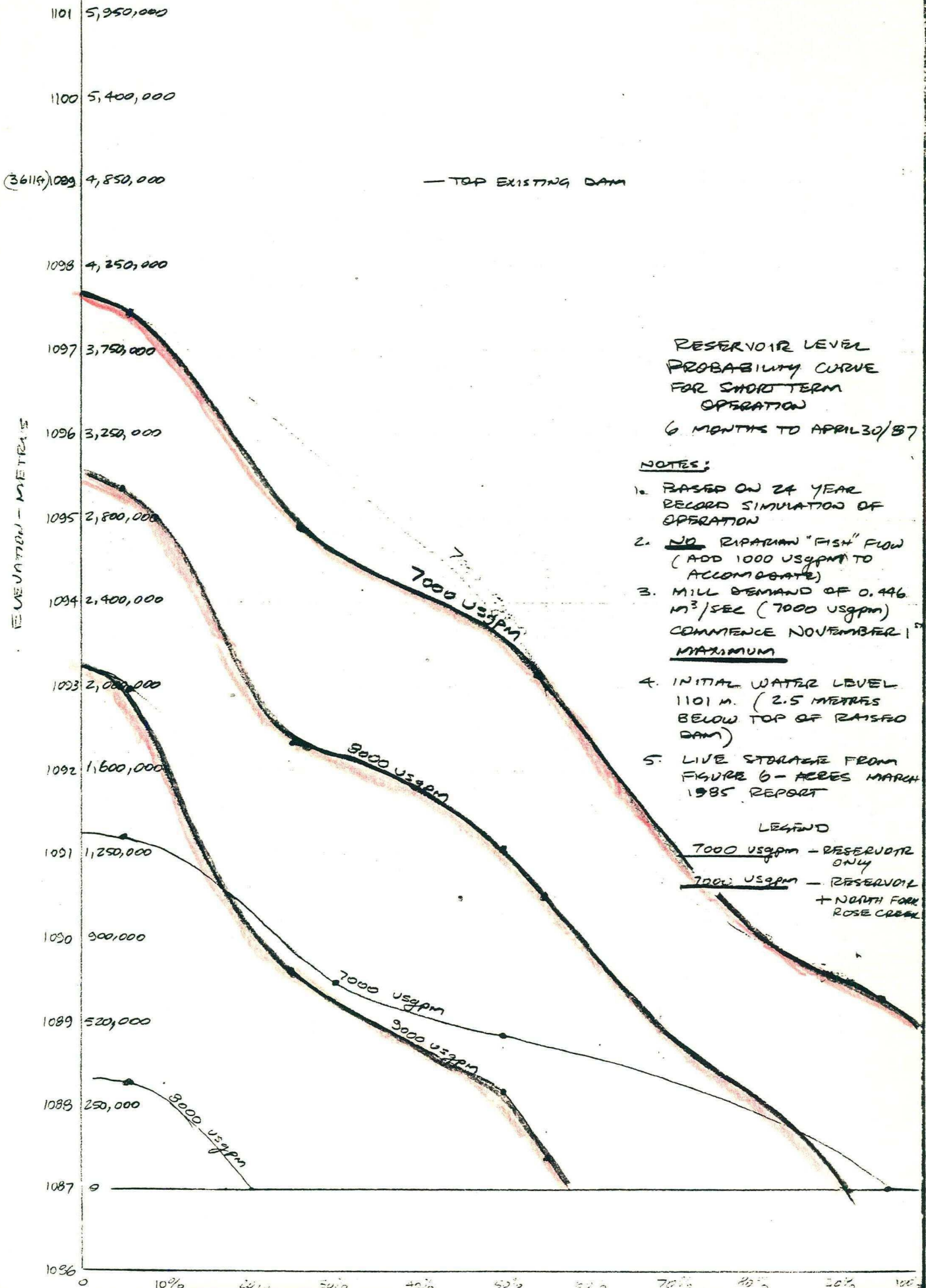
0 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MINIMUM DRAWDOWN LEVEL



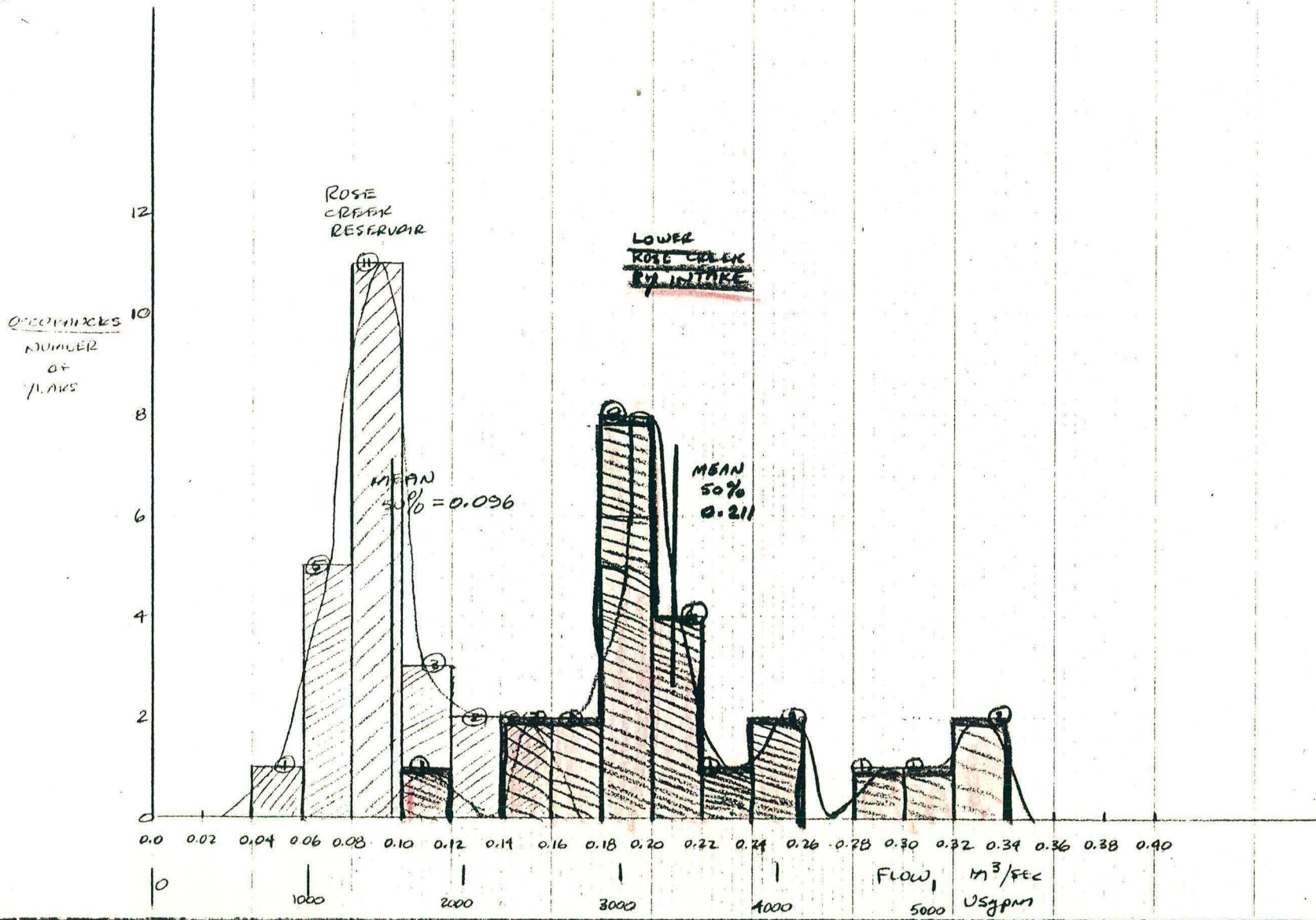
4.5 M RAISING

APPROX LIVE  
STORAGE  
RESERVOIR  
VOLUME - M<sup>3</sup>

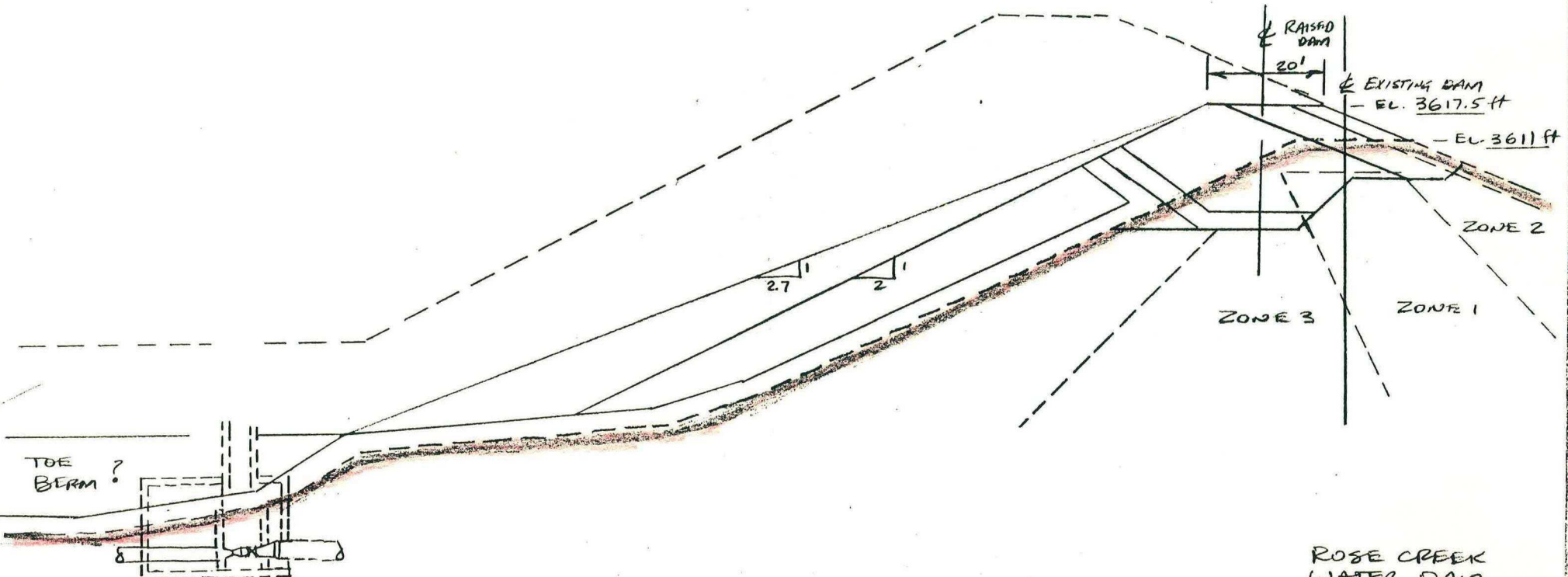


RESERVOIR LEVEL  
PROBABILITY CURVE  
FOR SHORT TERM  
OPERATION  
6 MONTHS TO APRIL 30/87

- NOTES:
1. BASED ON 24 YEAR RECORD SIMULATION OF OPERATION
  2. NO RIPARIAN "FISH" FLOW (ADD 1000 USGPM TO ACCOMMODATE)
  3. MILL DEMAND OF 0.446 M<sup>3</sup>/SEC (7000 USGPM) COMMENCE NOVEMBER 1<sup>ST</sup> MAXIMUM
  4. INITIAL WATER LEVEL 1101 M. (2.5 METRES BELOW TOP OF RAISED DAM)
  5. LIVE STORAGE FROM FIGURE 6 - AERES MARCH 1985 REPORT



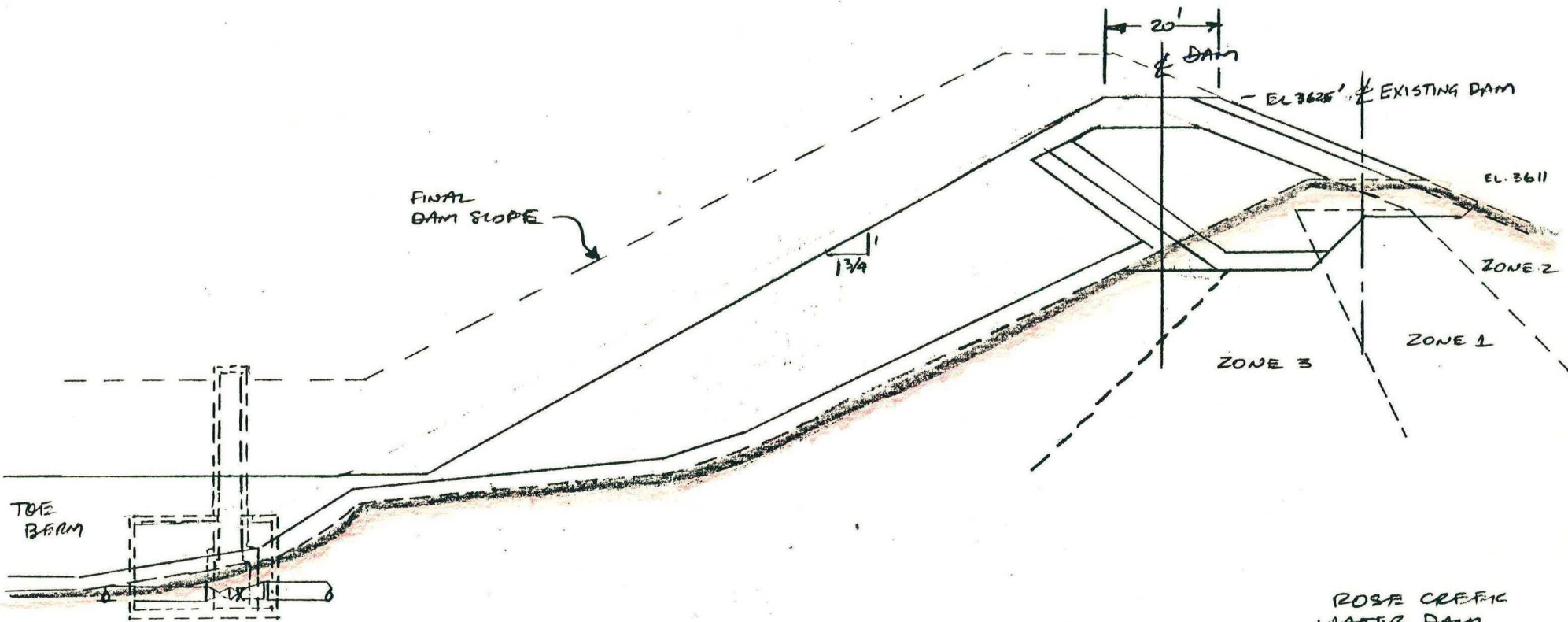
**2.0M DAM  
RAISING**



ROSE CREEK  
WATER DAM  
SKETCH OF 6.5ft  
(2.0M) DAM  
RAISING

SCALE 1"=20'      MARCH 21/86  
820-SK-2

4.5 M DAM?  
RAISING



ROSE CREEK  
WATER DAM  
SKETCH OF 14.8 ft  
(4.5 M) DAM  
RAISING

SCALE 1" = 20'

MARCH 20/86  
820-SK-1