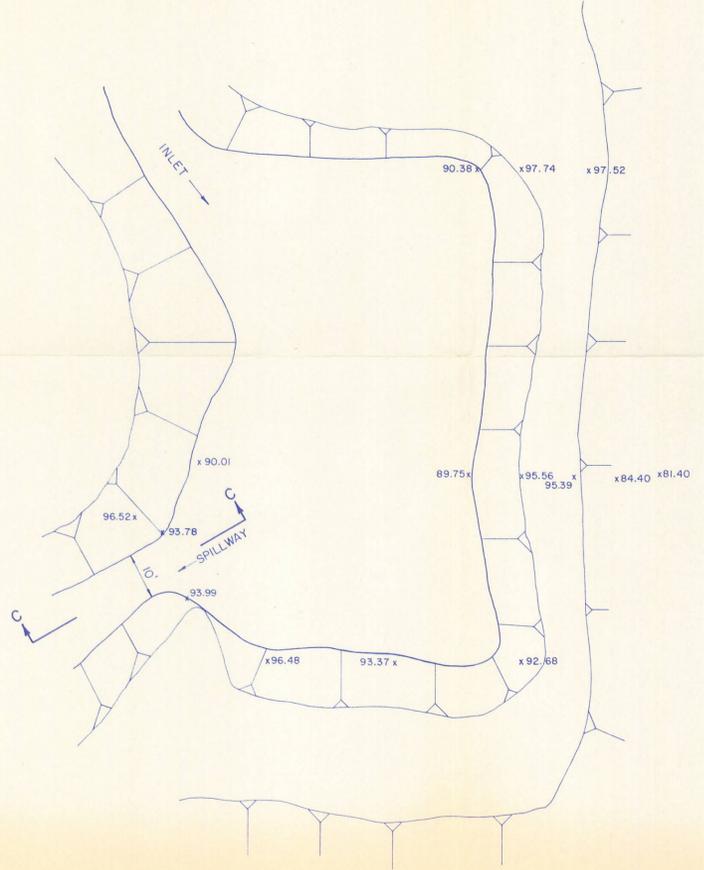


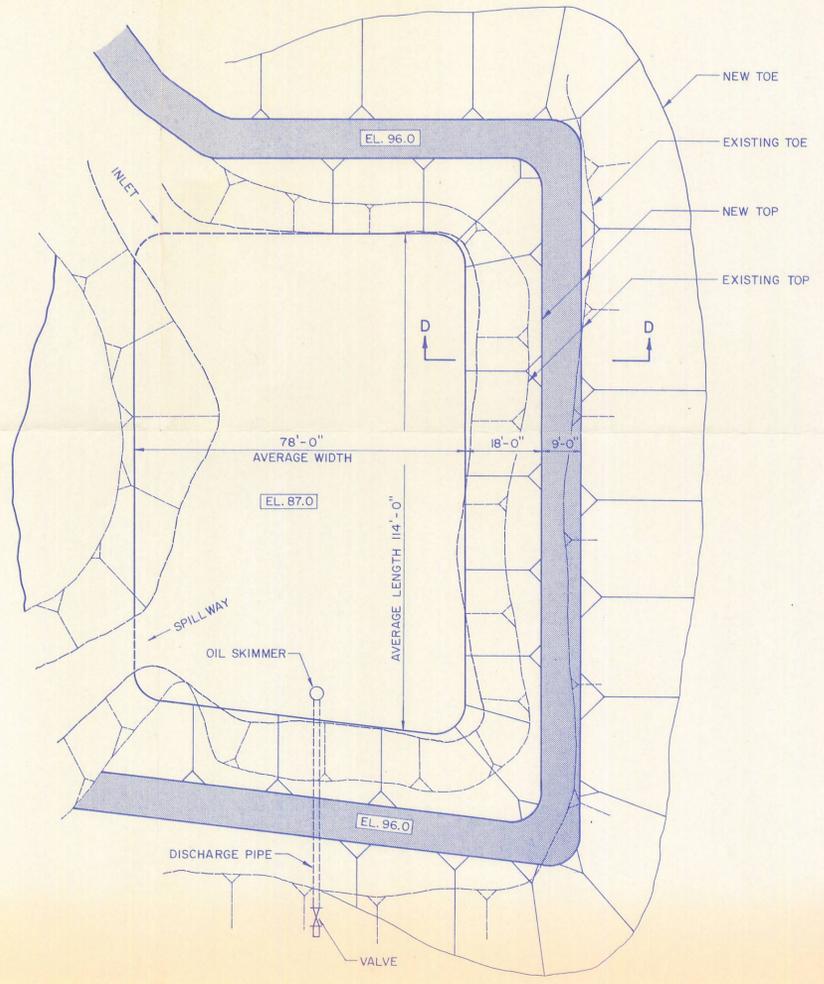
- NOTES:
- Pond to be inspected during construction under the supervision of a registered professional engineer.
 - Required angle of exterior slopes on south and east to be determined by stability analysis.
 - Interior slope of 2H:1V to be confirmed by stability analysis.
 - Pond to be constructed in accordance with the requirements of UMC 817.46.

DESIGN CRITERIA:

Drainage Area 14.35 Acres
SCS Curve #82
3-Year Sediment Storage 41,444 Ft³
10-Year 24-Hour Runoff Storage 42,714 Ft³
Use Existing Spillway 10 Foot Wide
Broad Crested Weir
Rainfall Data Base Hiawatha Data by E. Arlo Richardson



A EXISTING POND
SCALE: 1" = 20'-0"



B RECONSTRUCTED POND
SCALE: 1" = 20'-0"

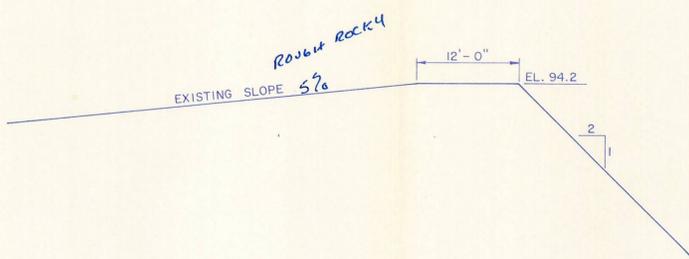
CO-OP Mine Disturbed Area
POND DEPTH VS STORAGE PROVIDED

ELEV. feet	DEPTH feet	AREA sq. ft.	VOLUME cu. ft.	SUM VOL. cu. ft.	OUTFLOW c.f.s.
87.0		8922.0		0.0	0.0
88.0	1.0	9676.0	9284.0	9284.0	0.0
89.0	1.0	10492.0	10916.0	19200.0	0.0
90.0	1.0	11340.0	11780.0	30284.0	0.0
91.0	1.0	12200.0	12676.0	42664.0	0.0
92.0	1.0	13132.0	13604.0	54740.0	0.0
93.0	1.0	14076.0	14564.0	68244.0	0.0
94.0	1.0	15052.0	15564.0	82908.0	0.0
94.2	0.2	15254.0	3030.6	85938.6	0.0
94.7	0.5	15758.0	7753.0	93691.6	13.4
95.2	0.5	16268.0	8006.5	101698.1	30.0

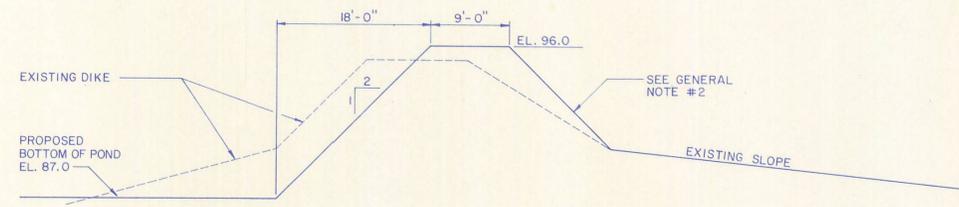
CO-OP Mine Disturbed Area
POND DEPTH VS STORAGE PROVIDED

ELEV. feet	DEPTH feet	AREA sq. ft.	VOLUME cu. ft.	SUM VOL. cu. ft.	OUTFLOW c.f.s.
90.9		12176.0		0.0	0.00
92.0	1.1	13132.0	13286.7	13286.7	0.00
93.0	1.0	14076.0	13604.0	26890.7	0.00
94.0	1.0	15052.0	14564.0	41454.7	0.00
94.2	0.2	15254.0	3030.6	44485.3	0.00
94.7	0.5	15758.0	7753.0	52238.3	13.44
95.2	0.5	16268.0	8006.5	60244.8	35.19

ALL ELEVATIONS RELATE TO THE BENCH MARK SET AT THE SITE AT ELEVATION 100.00
ELEVATION 100.00 BENCH MARK TO BE USED FOR CONSTRUCTION CONTROL



C SPILLWAY SECTION
SCALE: V:1" = 5'-0" H:1" = 10'-0"



D DIKE SECTION
SCALE: V:1" = 5'-0" H:1" = 10'-0"

E GENERAL NOTES

HORROCKS / CAROLLO ENGINEERS
 Plaza 2100 Suite 102 140 West 2100 South
 Salt Lake City, Utah 84115

BEAR CREEK CANYON CO-OP MINE

SEDIMENTATION POND "A"

DESIGNED HLW	CHECKED HLW	DATE FEB. '84	SCALE NOTED	DRAWING NO.	SHEET
DRAWN DDG	TRACED	REVISED			No. of