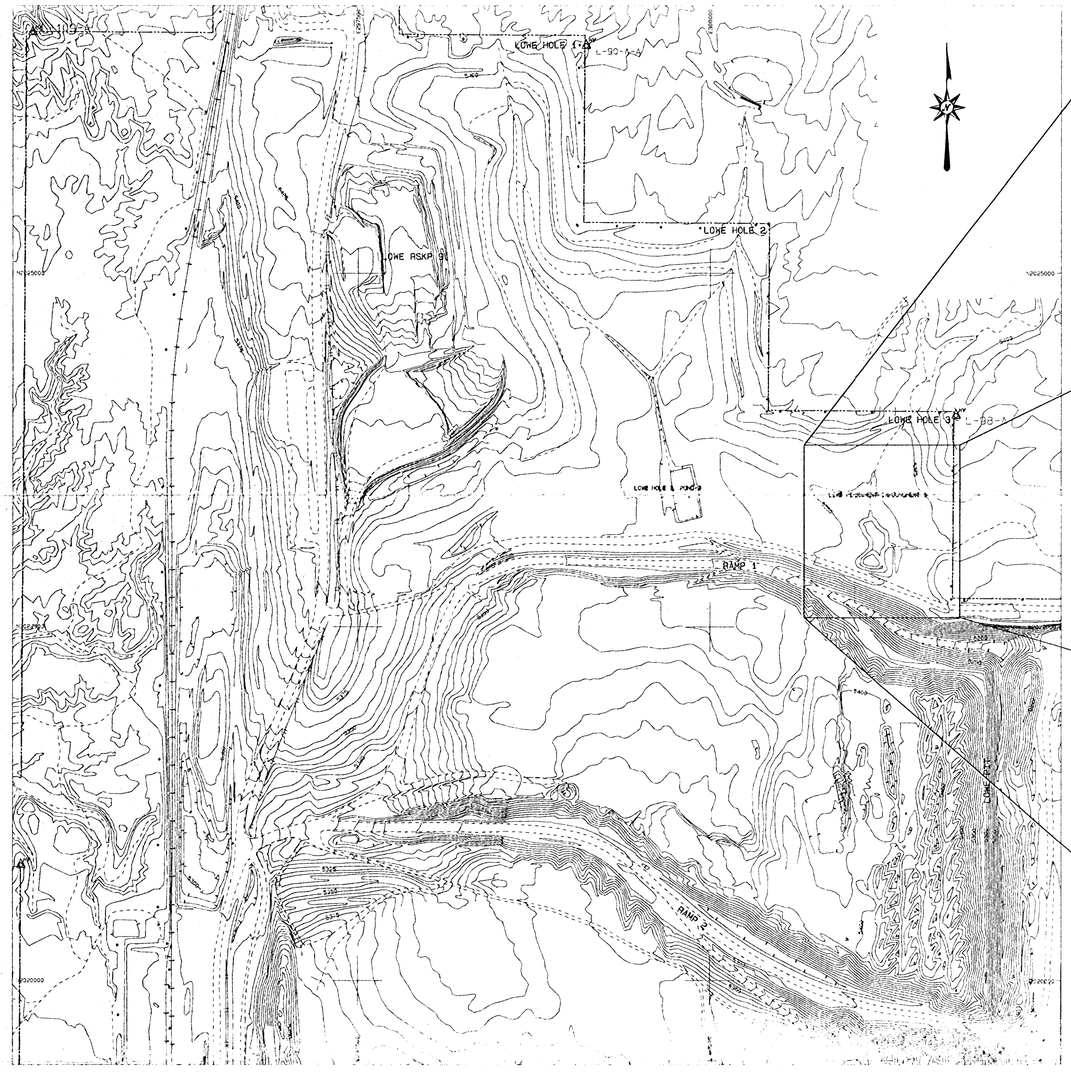
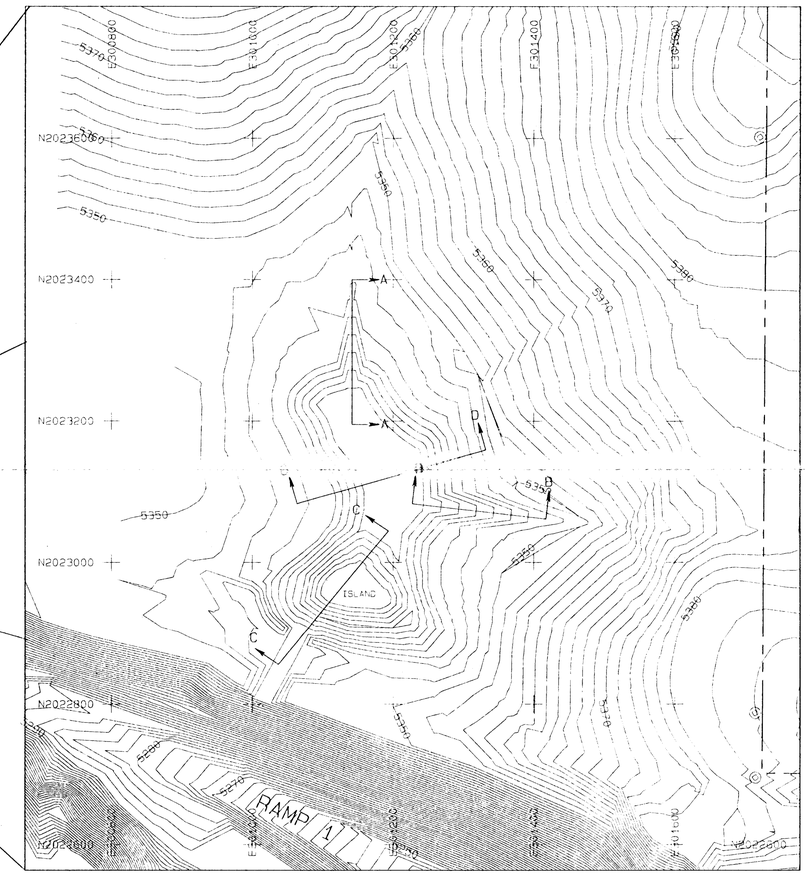


LOCATION MAP, SCALE 1"=100'



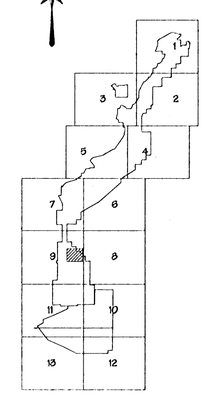
PLAN VIEW, SCALE 1'=100'

LEGEND

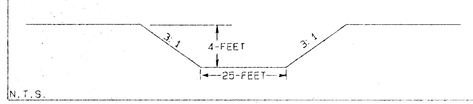
- ROAD
- TRAIL
- BUILDING
- FENCE
- IRRIGATION LINE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- TREES
- POWERLINE
- ×5338.5 SPOT ELEVATION
- 5300 INDEX CONTOUR
- 5298 INTERMEDIATE CONTOUR
- 218 5422.45 CONTROL
- LEASE
- RIP-RAP
- WATERSHED
- PERMIT BOUNDARY

NOTES

1. For hydrology and design information refer to Appendix 12-E in the approved PAP.

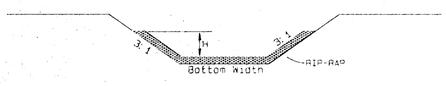


TYPICAL CROSS SECTION: OUTLET CHANNEL



N.T.S.

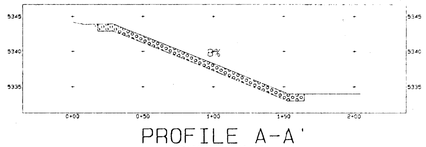
CROSS SECTION: TYPICAL INLET/OUTLET



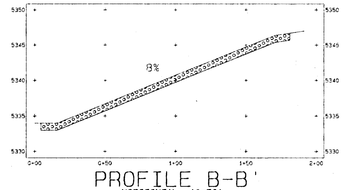
STAGE STORAGE DATA

STRUCTURE	BOTTOM WIDTH	H	D50 SIZE
SECTION A-A INLET	11-FEET	2	12-INCHES
SECTION B-B INLET	15-FEET	2.5	18-INCHES

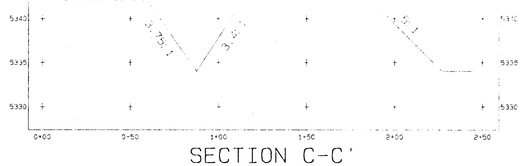
N.T.S.



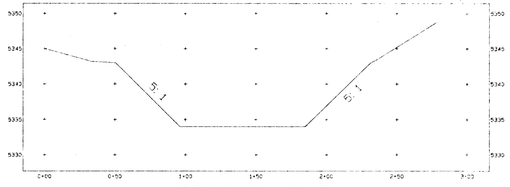
PROFILE A-A'
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'



PROFILE B-B'
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'



SECTION C-C'
HORIZONTAL: 1"=40'
VERTICAL: 1"=8'



SECTION D-D'
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'

STAGE STORAGE DATA

ELEV feet	AREA acres	VOLUME ac-ft	CUM. VOLUME ac-ft
5334	0.42	0.00	0.00
5335	0.87	0.64	0.64
5336	0.98	0.92	1.57
5337	1.10	1.04	2.61
5338	1.22	1.16	3.76
5339	1.34	1.28	5.04
5340	1.47	1.41	6.45
5341	1.61	1.54	7.99
5342	1.76	1.68	9.67

APPROVED JUN 2001

CERTIFICATION STATEMENT

I, Leonard Raymond, hereby certify that this drawing has been reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

LEONARD RAYMOND NEW MEXICO 6600 REGISTERED PROFESSIONAL ENGINEER

10-31-00

11-31-00

REVISION	DATE
1 SUBMITTED TO DGM FOR APPROVAL	10/31/00
2	
3	
4	
5	

PROJECT MANAGER: GERRY NELSON
ENGR. of RECORD: LEONARD RAYMOND
SURVR of RECORD: 6600
REG. NO.

BHP-NAVAJO COAL CO.
PO BOX 159, FRUITLAND, NEW MEXICO 87416

ACCURAT:
DATE: OCTOBER 31, 2000
DESIGNED BY: JOHN KELLER
DRAWN BY: LEONARD RAYMOND
CHECKED BY: LEONARD RAYMOND
APPROVED BY: LEONARD RAYMOND

PLAN, PROFILE AND SECTION

EXHIBIT 12-43

LOWE PERMANENT IMPOUNDMENT 1

DRAWING

SHEET 1 OF 1

PROJECT DIRC.: PATH: F:\NPRELOC\PONDS\POND_FINAL_DESIGN.DWG PLOT DATE/TIME: Tue Oct 31, 2000 / 9:33:46