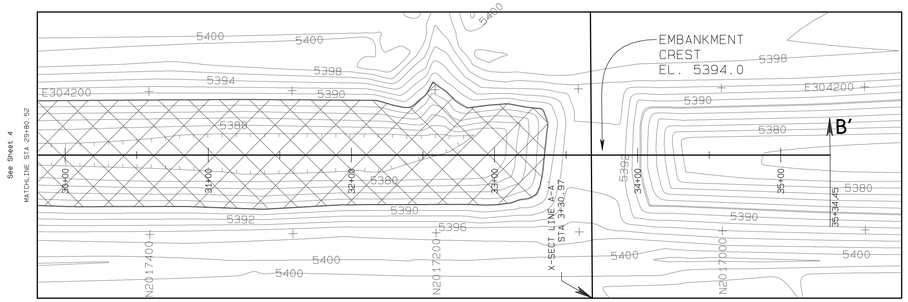
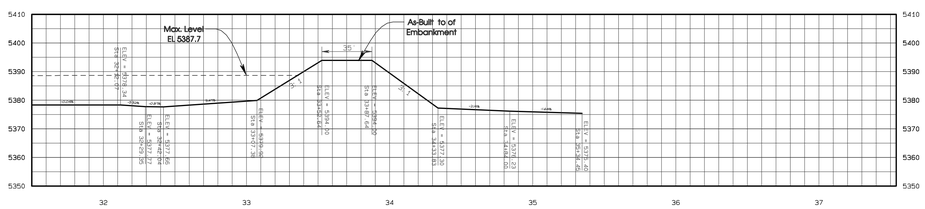
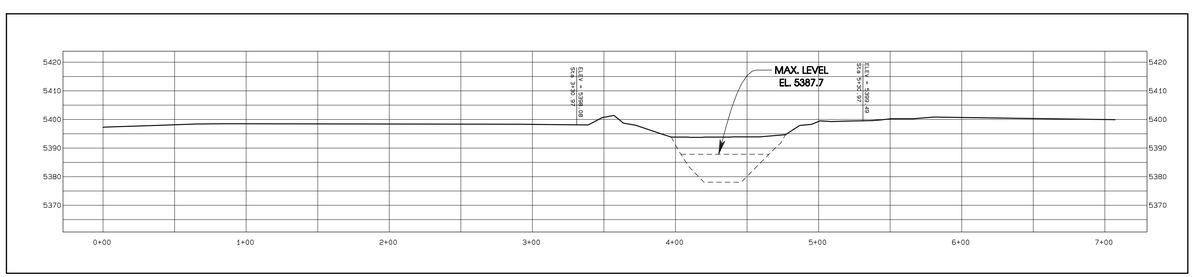


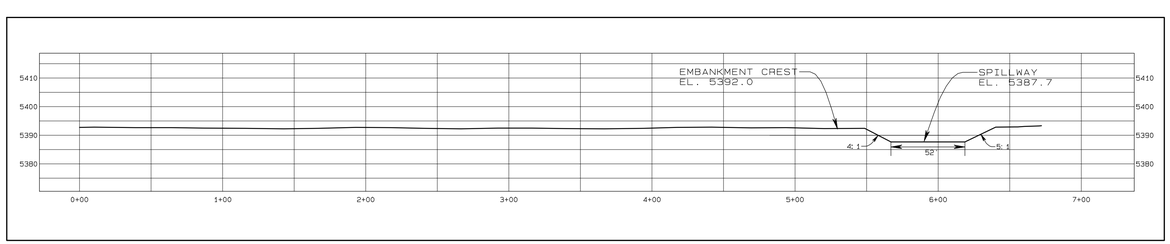
PLAN VIEW
SCALE: 1"=50.0'



PROFILE VIEW B-B'
Horz. Scale: 1" = 50'
Vert. Scale: 1" = 25'



X-SECTION A-A'
Horz. Scale: 1" = 50'
Vert. Scale: 1" = 25'



X-SECTION C-C'
Horz. Scale: 1" = 50'
Vert. Scale: 1" = 25'

LOWE-DIXON DIVERSION POND DESIGN STAGE STORAGE DATA

ELEV feet	AREA acres	VOLUME ac-ft	CUM. VOLUME ac-ft
5378	0.220	0.00	0.0
5380	0.648	0.90	0.9
5382	1.188	1.80	2.7
5384	1.892	3.10	5.8
5386	3.076	5.00	10.8
5388	4.358	7.40	18.2
5390	7.835	12.20	30.4
5392	10.790	18.60	49.0

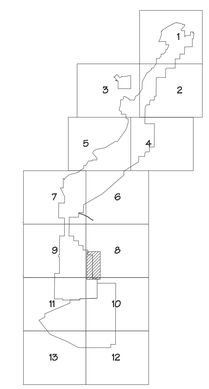
DESIGN SPILLWAY EL. 5387.7
DESIGN IMPOUNDMENT CAPACITY 17.1 AC-FT

LEGEND

- ROAD
- WATERSHED
- BUILDING
- FENCE
- IRRIGATION LINE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- TREES
- POWERLINE
- ×5338.5 SPOT ELEVATION
- 5300 INDEX CONTOUR
- 5298 INTERMEDIATE CONTOUR
- 218 5428.45
- L-30 LEASE CORNER
- PERMIT/LEASE BOUNDARY

NOTES

1. For hydrology and design information refer to Appendix 11-AA in the approved PAP.
2. Refer to Table 11-7 for additional data.
3. This Impoundment is for Stormwater runoff control to reduce inflow to Lowe and Dixon Pits.



SCALE AS NOTED

CERTIFICATION STATEMENT

I, Ron C. Van Valkenburg, hereby certify that this structure has been constructed in accordance with the Approved Design Plans except:

* Spillway constructed at 5387.7 (Design was 5387.8)
* Embankment top width was increased to 35 ft. (Design was 20 ft.) and upstream slope constructed at 3:1 (Design was 2:1).
* Spillway bottom width is 52 ft. (Design was 60 ft) and flatter side slopes.

RON C. VAN VALKENBURG
NEW MEXICO
9263
LICENSED PROFESSIONAL ENGINEER

REV No.	DATE	DESCRIPTION
1	01-23-08	SUBMITTED TO OSM FOR REVIEW
2	01-14-08	PAP REVISIONS PER COMMENTS TO PAP DATED 12-20-07
3	12-30-08	PAP REVISIONS - PAP SUBMITTED TO OSM FOR REVIEW
4		
5		

PROJECT MANAGER: K. BAHE
ENGR. of RECORD: R. VAN VALKENBURG
REG. NO: NM-9263
SRVYR of RECORD:
REG. NO:

BHP NAVAJO COAL CO.
NAVAJO MINE
PO BOX 1717, FRUITLAND, NEW MEXICO, 87416

ACCOUNT:
DATE: DEC. 15, 2007
DESIGN BY: Ron Van Valkenburg
DRAWN BY: Ron Van Valkenburg
CHECKED BY: Ron Van Valkenburg
APPROVED BY: Ron Van Valkenburg

PLAN, PROFILE AND X-SECTIONS

EXHIBIT 11-151
LOWE-DIXON
DIVERSION POND
AS-BUILT

DRAWING

SHEET 4 OF 4

© U:\Permit Pch 11\Exhibit 11-151\As-Built Data\Ex 11-151_L-Dix Div Pd_As-Built.dwg