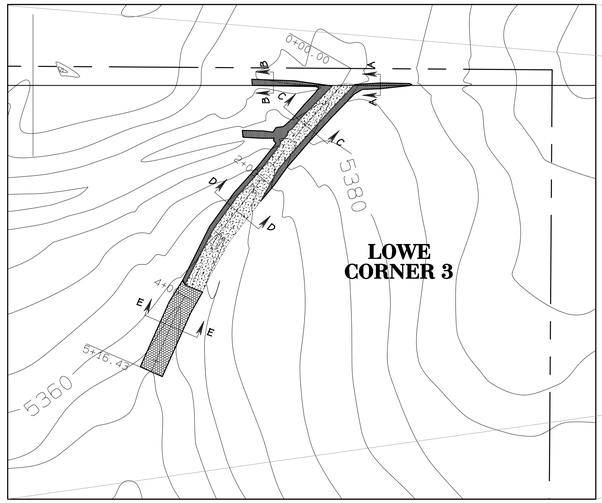
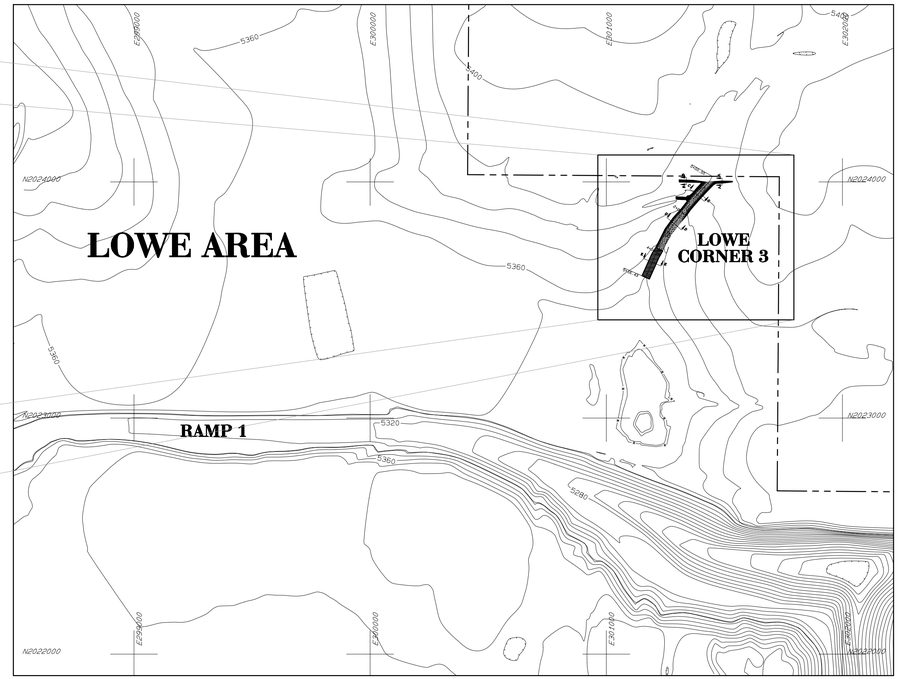


Plan
Scale: 1" = 100'



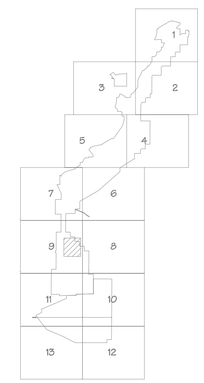
Location Map
Scale: 1" = 300'

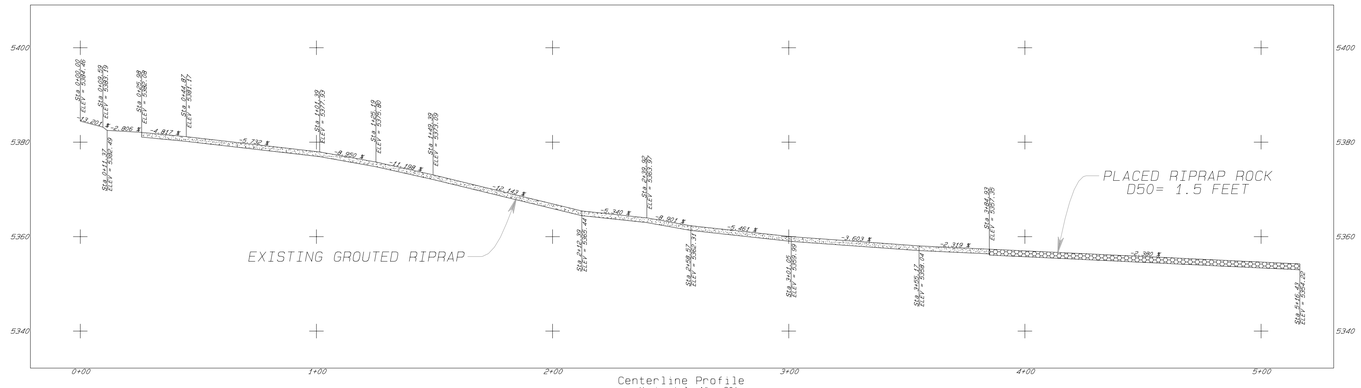
LEGEND

- ROAD
- WATERSHED
- BUILDING
- FENCE
- IRRIGATION LINE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- POWERLINE
- ×5338.5 SPOT ELEVATION
- 5300 INDEX CONTOUR
- LEASE BOUNDARY

NOTES

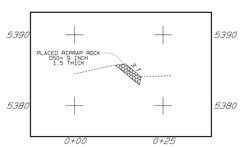
1. For design information refer to Appendix 12-F in the approved PAP.



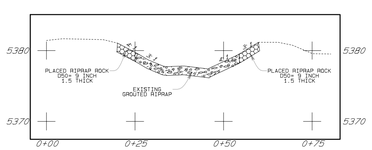


Centerline Profile
Horizontal: 1" = 30'
Vertical: 1" = 15'

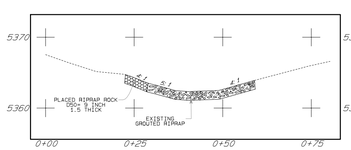
SCALE AS NOTED



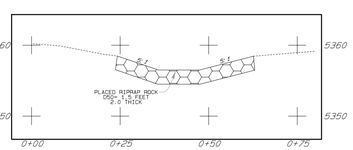
TYPICAL SECTIONS
A-A AND B-B



SECTIONS C-C



SECTIONS D-D



SECTIONS E-E

ABOVE SECTIONS
Horizontal: 1" = 20'
Vertical: 1" = 10'

CERTIFICATION STATEMENT

I, Leonard Raymond, hereby certify that this drop structure has been constructed in accordance with the appoved design plans and that the information shown is complete and accurate to the best of my knowledge, except as noted below.

LEONARD RAYMOND
NEW MEXICO
6600
REGISTERED PROFESSIONAL ENGINEER

1. Smaller riprap rock than what was required by design was placed. To compensate for the smaller rock, the riprap was grouted with concrete.
2. The depth of the riprap channel was insufficient for the design flow. Additional rock was placed on the banks to obtain sufficient channel depth.
3. An additional 130-foot of reach at the downstream end was riprapped. This reach of channel had eroded during runoffs from recent storms.
4. Some improvements were also made at the inlet to better direct flows into the structure.

REV NO	DESCRIPTION	REV BY	DATE
1	SUBMITTED FOR REVIEW	RV	09-17-04
2			
4			
5			

PROJECT MANAGER: DR
DWN. or RECORD: LR
REG. NO: 6600
SRVYR or RECORD:
REG. NO:

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

ACCOUNT:
DATE: SEPT. 17, 2004
DESIGNED BY:
DRAWN BY: RYAZZIE
CHECKED BY: LR
APPROVED BY: LR

PLAN, PROFILE AND SECTION

EXHIBIT 12-33B
LOWE CORNER 3
NORTH DROP STRUCTURE
AS-BUILT

DRAWING

SHEET 2 OF 2

Path: S:\Departments\Engineering\Projects\Projects\Lowe Corner 3 Drop Structure NO - 4-33B.dwg