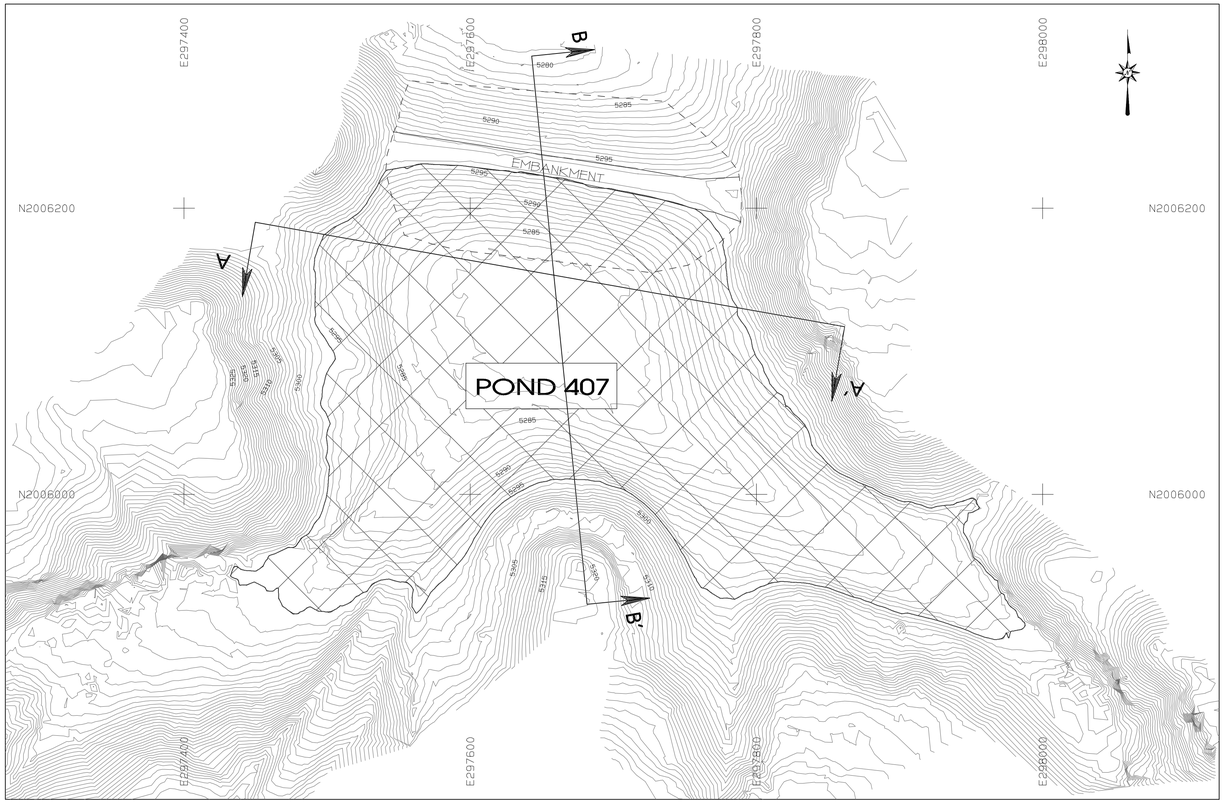
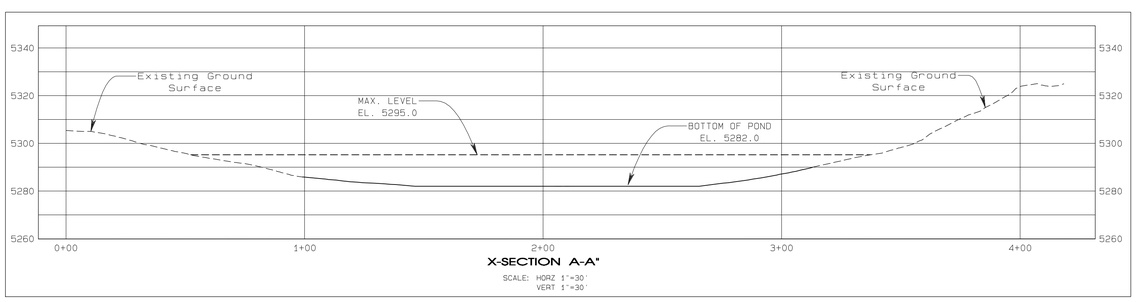


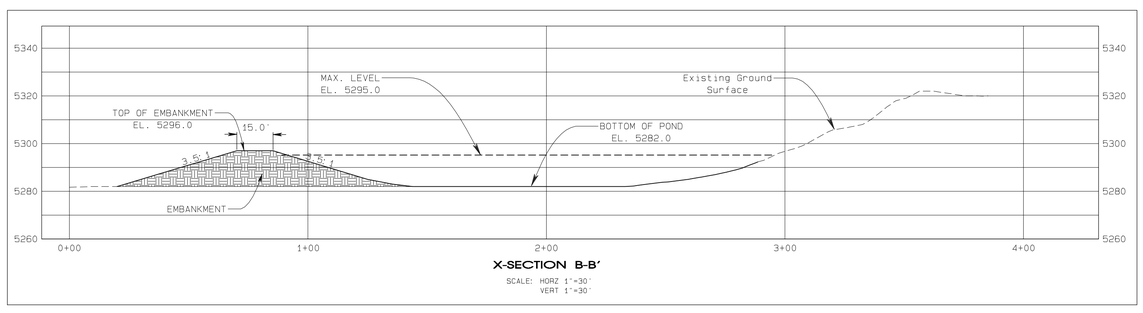
PLAN VIEW

SCALE: 1"=50'



X-SECTION A-A'

SCALE: HORZ 1"=30'
VERT 1"=30'



X-SECTION B-B'

SCALE: HORZ 1"=30'
VERT 1"=30'

LEGEND

- ROAD
- BUILDING
- FENCE
- CULVERT
- DRAINAGE
- POWERLINE
- 5300 INDEX CONTOUR
- 5298 INTERMEDIATE CONTOUR
- PERMIT/LEASE BOUNDARY

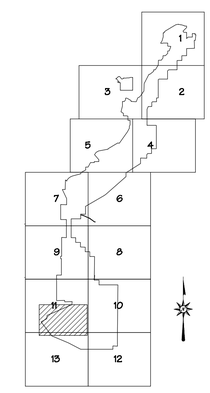
NOTES

1. For location of drainage control structures and watersheds, refer to Exhibit 11-13F.
2. The hydrology and supporting design data for the drainage control structures are referenced on Table 11-7 of the NM PAP.

STAGE STORAGE DATA

ELEV feet	AREA acres	VOLUME ac-ft	CUM. VOLUME ac-ft
5282	0.23	0.0	0.0
5283	0.36	0.3	0.3
5284	0.49	0.4	0.7
5285	0.61	0.6	1.3
5286	0.72	0.7	1.9
5287	0.83	0.8	2.7
5288	0.94	0.9	3.6
5289	1.06	1.0	4.6
5290	1.18	1.1	5.7
5291	1.31	1.2	7.0
5292	1.45	1.4	8.3
5293	1.61	1.5	9.9
5294	1.77	1.7	11.6
5295	1.92	1.8	13.4
5296	2.09	2.0	15.4
5297	2.26	2.2	17.6

Crest of Embankment 5296.0
As-Built Volume at Crest Elevation 15.4



SCALE AS NOTED

CERTIFICATION STATEMENT

I, Ron C. Van Valkenburg, hereby certify that this impoundment has been constructed in accordance with the approved design plans and that the information shown is complete and accurate to the best of by knowledge.

RON C. VAN VALKENBURG
NEW MEXICO
9263
LICENSED PROFESSIONAL ENGINEER

REVISION	DATE
09-4 UPDATED AND DEVELOPMENT AND SUBMITTED TO DSM FOR REVIEW	9/29/09
10-4 REVISED AND UPDATED PER DSM COMMENTS AND SUBMITTED TO DSM FOR REVIEW NOT SUBMITTED	2-09-10
11-4 SUBMITTED TO DSM FOR REVIEW AND APPROVAL.	1-26-2011

PROJECT MANAGER: F. GORMAN
ENGR. OF RECORD: RON C. VAN VALKENBURG
REG. NO: NM 9263
SRVYR OF RECORD:
REG. NO:

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NAVAJO COAL COMPANY
NAVAJO MINE
PO BOX 1717, FRUITLAND, NEW MEXICO, 87416 PHONE 505-598-3209/FAX 505-598-3361

PROJECT: AAN
DATE: AUG 8, 2009
DESIGNED BY: RCV
DRAWN BY: PJFOSTER
CHECKED BY: RCV
APPROVED BY: RCV

PLAN, PROFILE AND SECTION

EXHIBIT 11-157 AREA 4 NORTH POND 407 AS-BUILT

DRAWING

SHEET
OF 0

G:\GIS\Permit Pitch 11\Exh 11-157_AAN Pnd 407\NSW Subm-120211\Exh 11-157_Pond-407_As-Built.dwg
Wed Jan 26 12:45:43 2011