

TPC-A (As-Built)

Elevation (ft-msl)	Stage (ft)	Area (Acres)	Capacity (ac-ft)	Total Capacity (ac-ft)	Description
7305	0	0	0	0	Bottom of Pond
7306	1.0	0.03	0.02	0.02	
7308	3.0	0.12	0.15	0.17	
7309.2	4.2	0.22	0.20	0.37	Emergency Spillway
7310	5.0	0.29	0.20	0.57	
7310.5	5.5	0.37	0.17	0.74	Top of Dam

I certify this Siltation Structure was constructed in accordance with the approved mining permit and that the information contained herein fully describes the constructed structure to the best of my knowledge and belief.

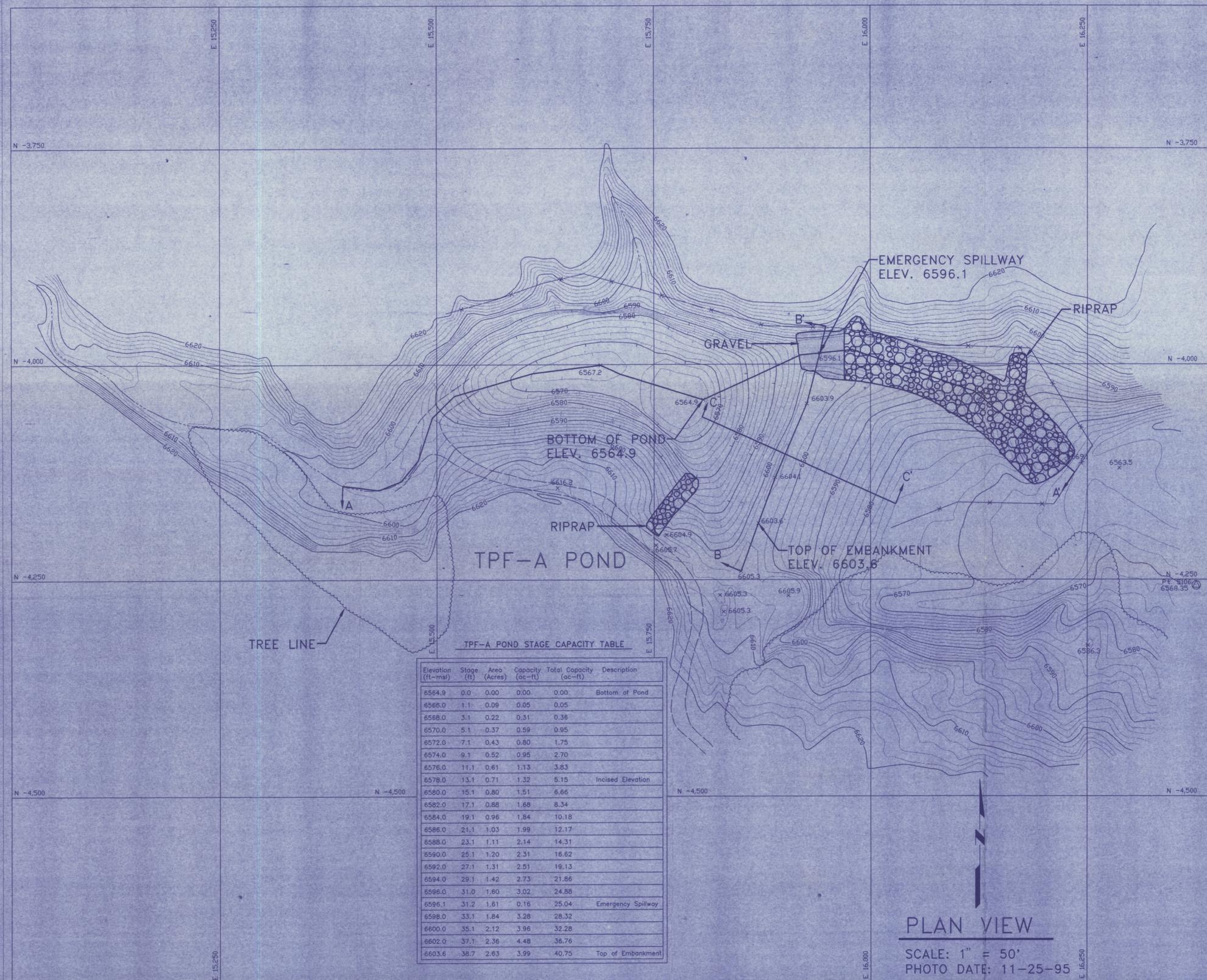
18982
 JAMES GARY SCHLEWOCK
 Senior Professional Engineer
 Peabody Coal Company

Arizona P.E. #18782
 Date: JUN 13 1990

PEABODY COAL COMPANY
 BLACK MESA - KAYENTA MINE

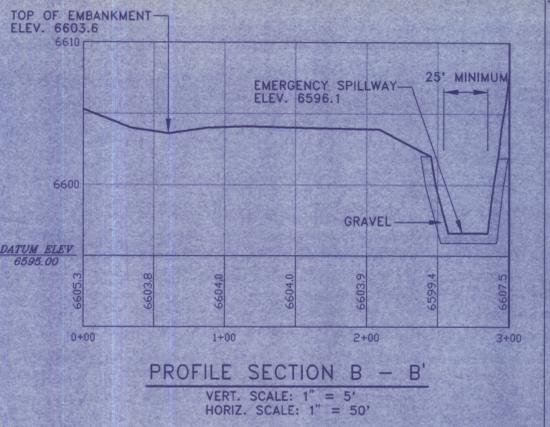
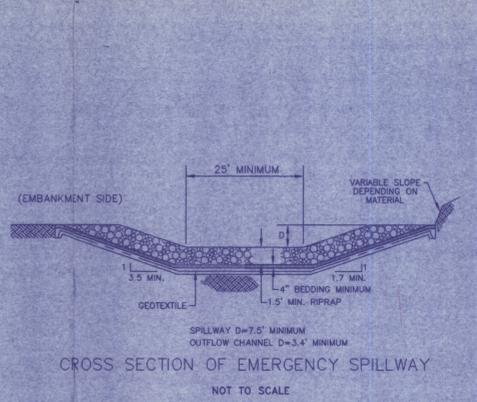
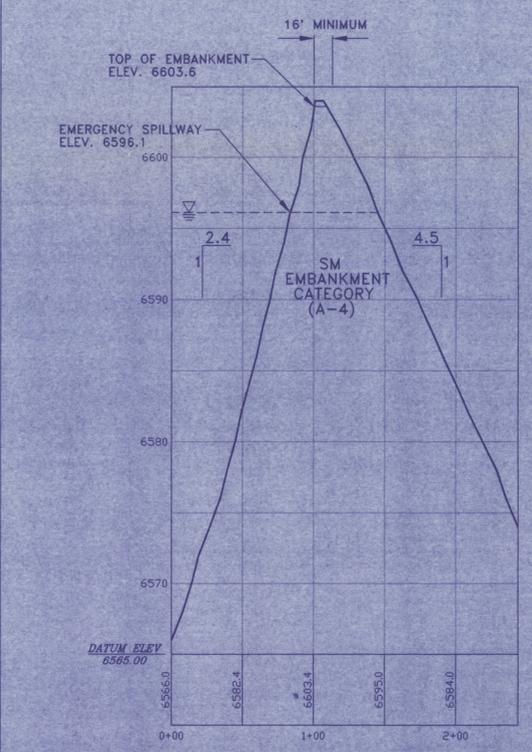
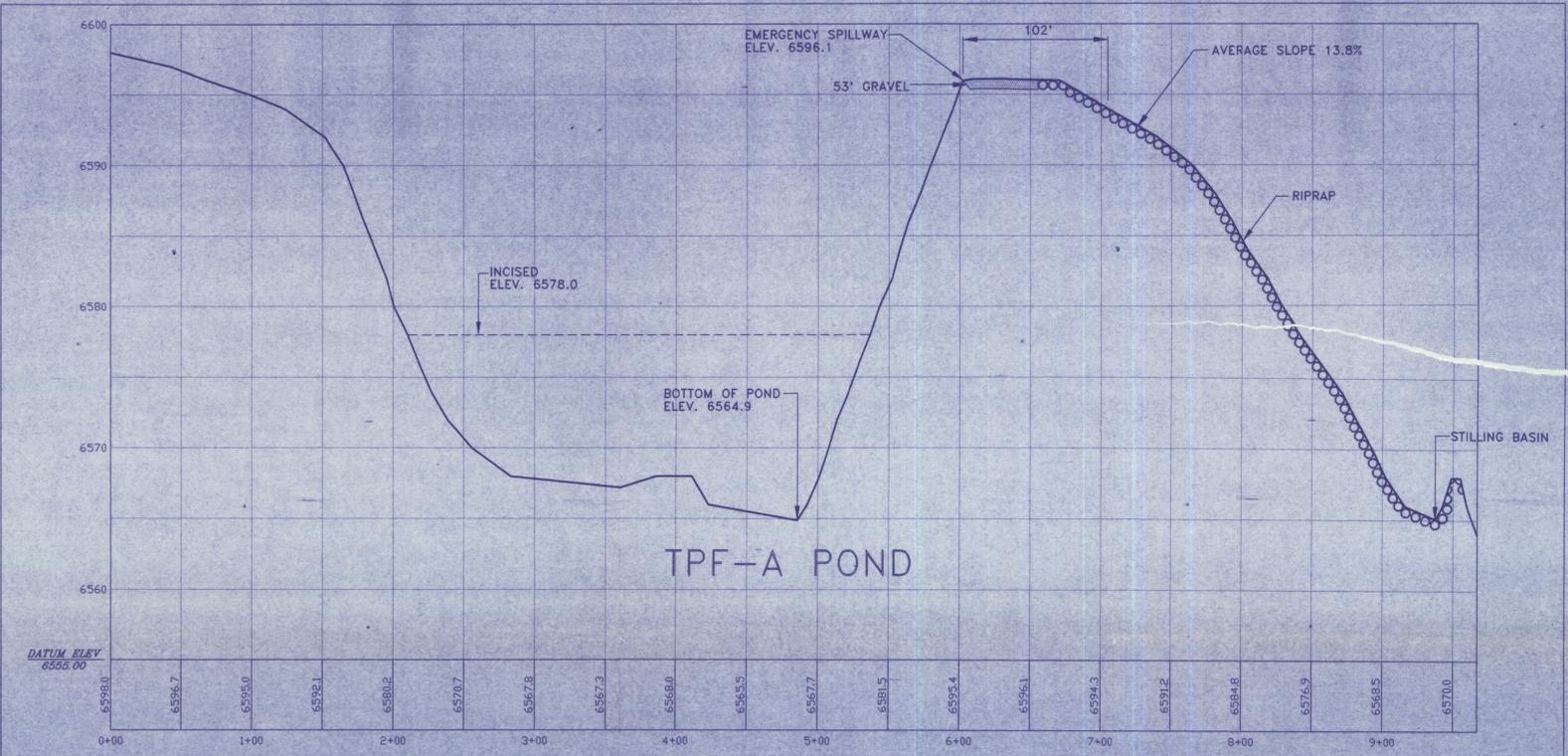
TPC-A POND (AS-BUILT)

SCALE: AS SHOWN	DRAWN BY: J.H.J.
DATE: 06-05-90	DRAWING NO:
REVISION:	APPROVED BY: J.G.S.



TPF-A POND STAGE CAPACITY TABLE

Elevation (ft-msl)	Slope (ft)	Area (Acres)	Capacity (ac-ft)	Total Capacity (ac-ft)	Description
6564.9	0.0	0.00	0.00	0.00	Bottom of Pond
6566.0	1.1	0.09	0.05	0.05	
6568.0	3.1	0.22	0.31	0.36	
6570.0	5.1	0.37	0.59	0.95	
6572.0	7.1	0.43	0.80	1.75	
6574.0	9.1	0.52	0.95	2.70	
6576.0	11.1	0.61	1.13	3.83	
6578.0	13.1	0.71	1.32	5.15	Incised Elevation
6580.0	15.1	0.80	1.51	6.66	
6582.0	17.1	0.88	1.68	8.34	
6584.0	19.1	0.96	1.84	10.18	
6586.0	21.1	1.03	1.99	12.17	
6588.0	23.1	1.11	2.14	14.31	
6590.0	25.1	1.20	2.31	16.62	
6592.0	27.1	1.31	2.51	19.13	
6594.0	29.1	1.42	2.73	21.86	
6596.0	31.0	1.60	3.02	24.88	
6596.1	31.2	1.61	0.16	25.04	Emergency Spillway
6598.0	33.1	1.84	3.28	28.32	
6600.0	35.1	2.12	3.96	32.28	
6602.0	37.1	2.36	4.48	36.76	
6603.6	38.7	2.83	3.99	40.75	Top of Embankment



I certify that this Siltation Structure was constructed in accordance with the approved mining permit and that the information contained herein accurately describes the constructed structure to the best of my knowledge and belief.

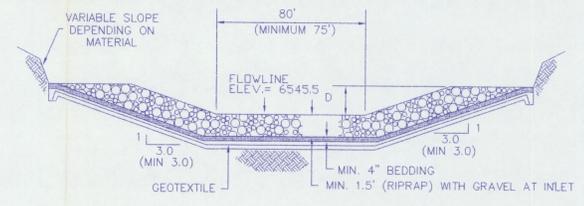
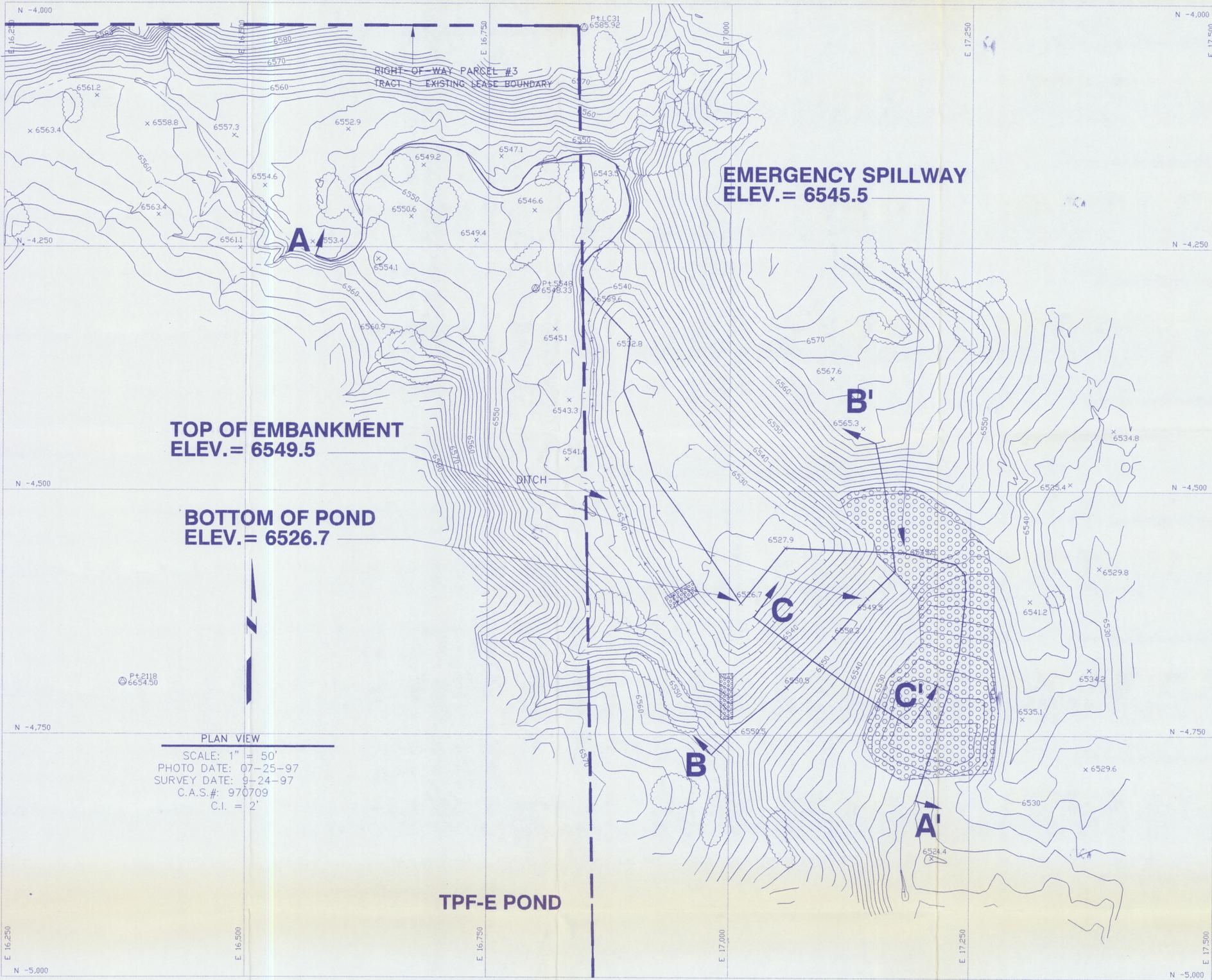
Raymond A. Brantly
RAYMOND A. BRANTLY
PEABODY WESTERN COAL COMPANY

ARIZONA P.E. 15264
12/18/95
DATE

REVISIONS	CHK'D DATE	DESCRIPTION

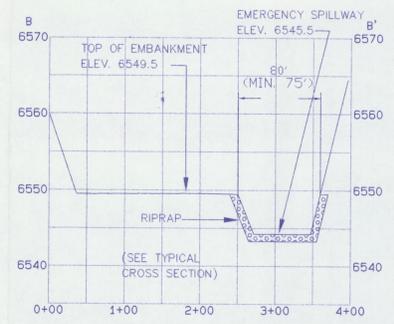
TPF-A POND (AS - BUILT)

KAYENTA MINE
PEABODY WESTERN COAL CO. 1300 S.YALE FLAGSTAFF, AZ. 86001
DESIGNED BY: P.W.C.C. SCALE: AS SHOWN
DRAWN BY: E.F.D. DRAWING DATE: 12-18-95
CHECKED BY: R.A.B. PHOTO DATE: 11-25-95
CONTOUR INTERVAL: 2.0'



SPILLWAY D=4.0' (MIN. 2.8')
OUTFLOW CHANNEL D=2.0' (MIN. 1.7')

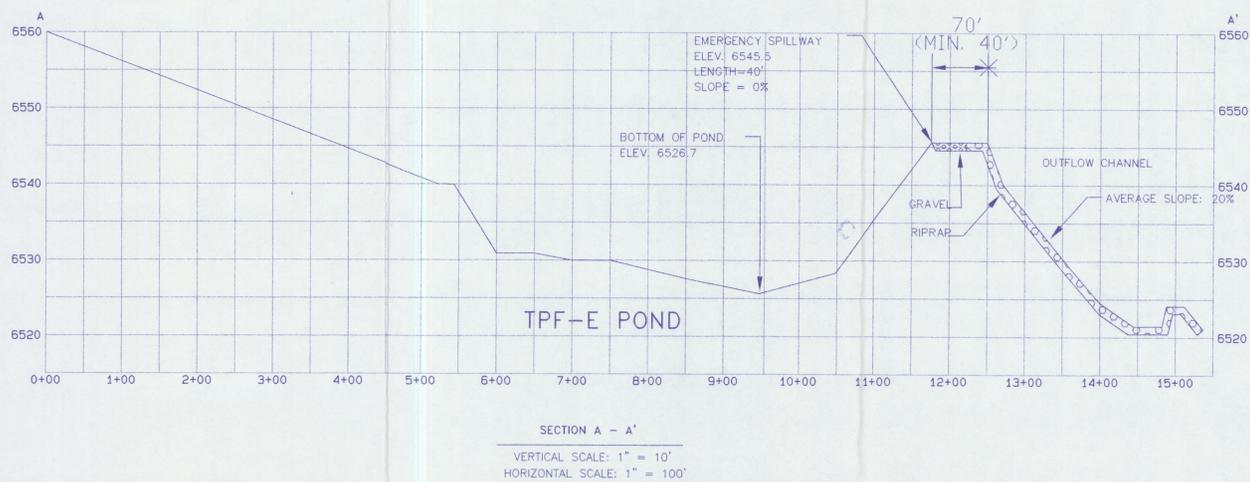
TPF-E POND
TYPICAL CROSS-SECTION OF EMERGENCY SPILLWAY
NOT TO SCALE



SECTION B - B'

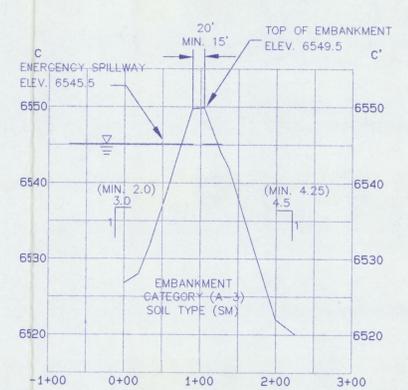
VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 100'

TPF-E POND STAGE-CAPACITY TABLE					
Elevation (ft-msl)	Stage (ft)	Area (Acres)	Capacity (cc-ft)	Total Capacity (cc-ft)	Description
6526.7	0.0	0.00	0.00	0.00	BOTTOM OF POND
6528.0	1.3	0.17	0.11	0.11	
6530.0	3.3	0.43	0.60	0.71	
6532.0	5.3	0.66	1.09	1.80	
6534.0	7.3	0.85	1.51	3.31	
6536.0	9.3	0.99	1.84	5.15	
6538.0	11.3	1.13	2.12	7.27	
6540.0	13.3	1.34	2.47	9.74	
6542.0	15.3	1.63	2.97	12.71	
6544.0	17.3	2.01	3.64	16.35	
6545.5	18.8	2.37	3.29	19.64	EMERGENCY SPILLWAY
6546.0	19.3	2.49	1.22	20.85	
6548.0	21.3	2.89	5.38	26.23	
6549.5	22.8	3.27	4.62	30.85	TOP OF EMBANKMENT



SECTION A - A'

VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 100'



SECTION C - C'

VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 100'

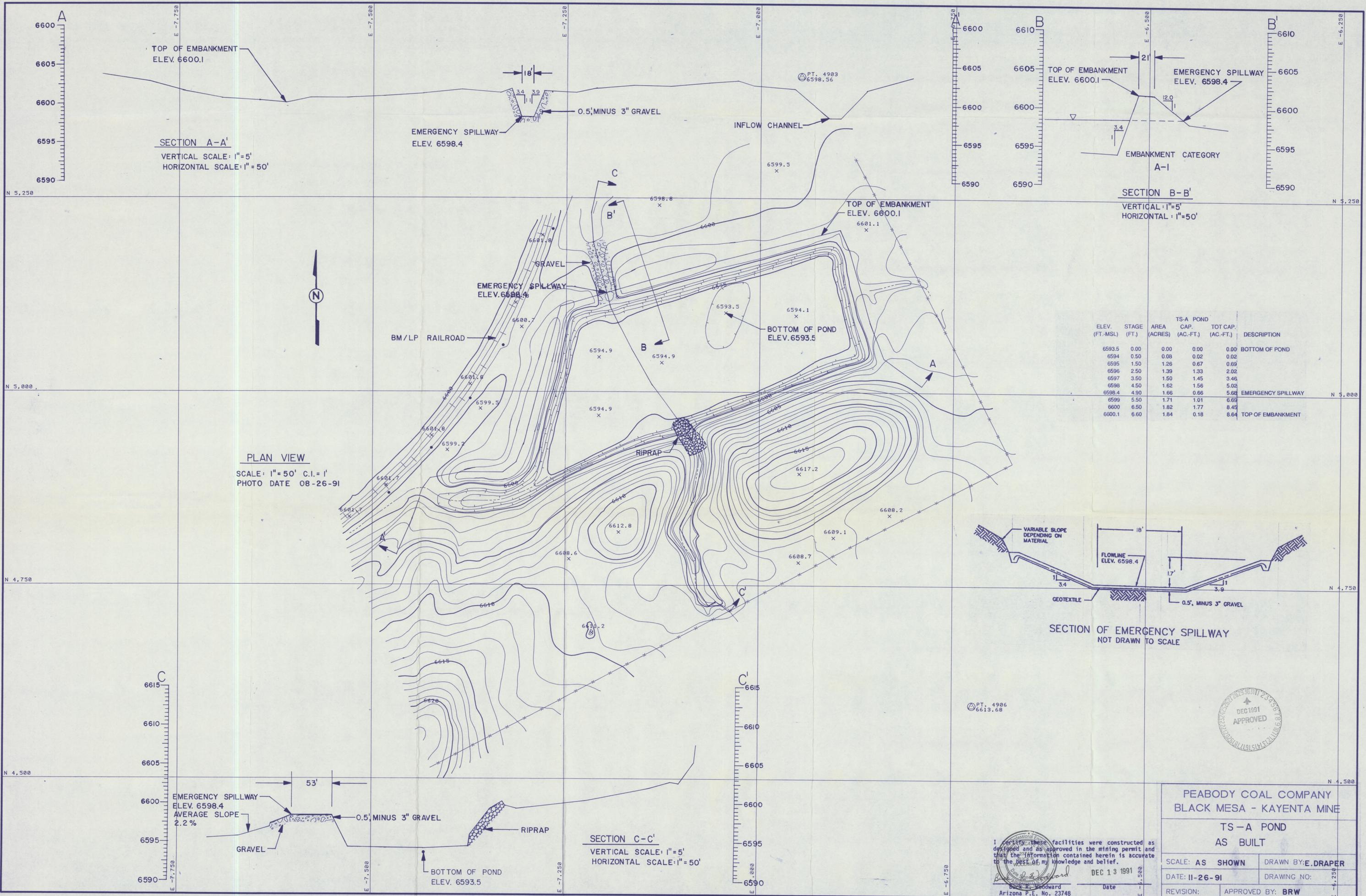
I CERTIFY THAT THIS SILTATION STRUCTURE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED MINING PERMIT AND THAT THE INFORMATION CONTAINED HEREIN ACCURATELY DESCRIBES THE CONSTRUCTED STRUCTURE TO THE BEST OF MY KNOWLEDGE AND BELIEF



ARIZONA P.E. 18782
DATE: OCT 09 1997

REVISIONS			TPF-E POND AS-BUILT	
DATE	CHK'D	DESCRIPTION		

KAYENTA MINE	
PEABODY WESTERN COAL COMPANY	
1300 SOUTH YALE ST. FLAGSTAFF, ARIZONA 86001	
DESIGNED BY: PWCC	SCALE: AS SHOWN
DRAWN BY: JRE	DRAWING DATE: 09-03-97
CHECKED BY: JGS	PHOTO DATE: 07-25-97
CONTOUR INT.: 2'	DWG FILE: TPF-E-1.DWG



ELEV. (FT.-MSL)	STAGE (FT.)	AREA (ACRES)	TS-A POND CAP. (AC.-FT.)	TOT CAP. (AC.-FT.)	DESCRIPTION
6593.5	0.00	0.00	0.00	0.00	BOTTOM OF POND
6594	0.50	0.08	0.02	0.02	
6595	1.50	1.26	0.67	0.69	
6596	2.50	1.39	1.33	2.02	
6597	3.50	1.50	1.45	3.46	
6598	4.50	1.62	1.56	5.02	
6598.4	4.90	1.66	0.86	5.68	EMERGENCY SPILLWAY
6599	5.50	1.71	1.01	6.69	
6600	6.50	1.82	1.77	8.45	
6600.1	6.60	1.84	0.18	8.64	TOP OF EMBANKMENT



I certify that these facilities were constructed as designed and as approved in the mining permit and that the information contained herein is accurate to the best of my knowledge and belief.

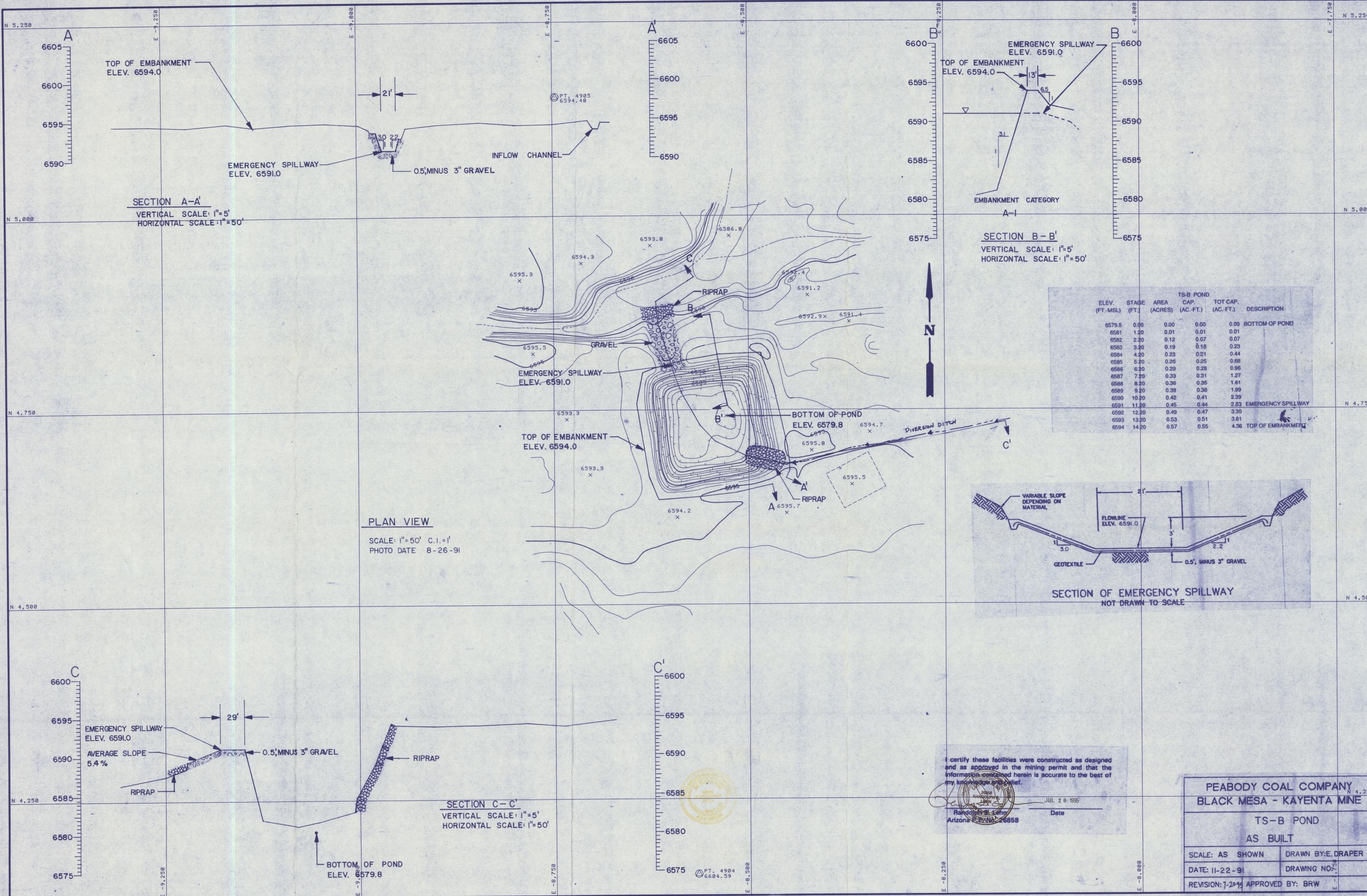
E. Draper
 E. Draper
 Arizona P.E. No. 23748

DEC 13 1991
 Date

PEABODY COAL COMPANY
BLACK MESA - KAYENTA MINE

TS-A POND
AS BUILT

SCALE: AS SHOWN DRAWN BY: E. DRAPER
 DATE: 11-26-91 DRAWING NO.:
 REVISION: APPROVED BY: BRW



I certify these facilities were constructed as designed and as approved in the mining permit and that the information contained herein is accurate to the best of my knowledge and belief.

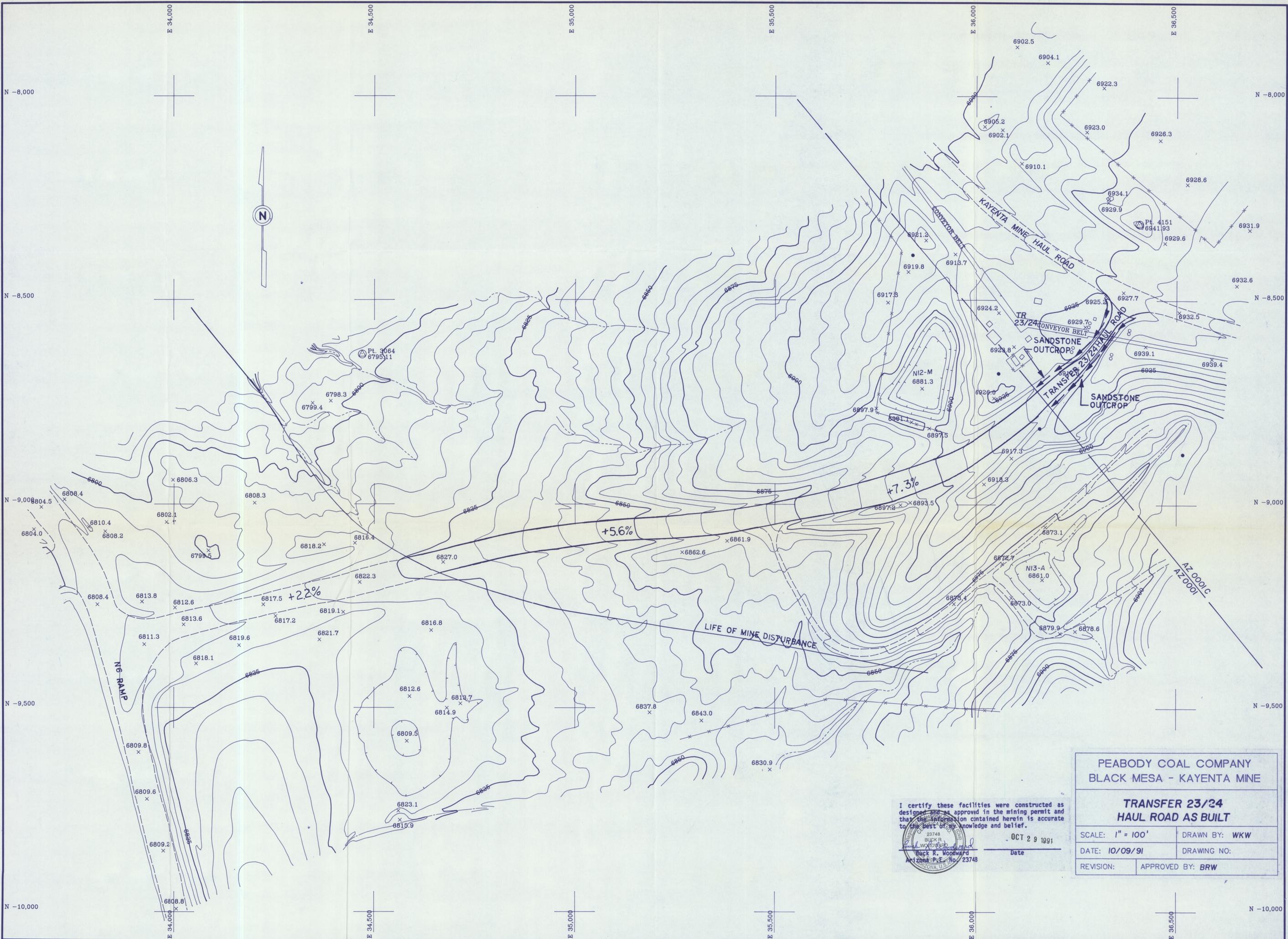
[Signature]
Randolph Lamm
Arizona P.E. No. 26858

Date: JUL 20 1995

PEABODY COAL COMPANY
BLACK MESA - KAYENTA MINE

TS-B POND
AS BUILT

SCALE: AS SHOWN	DRAWN BY: E. DRAPER
DATE: 11-22-91	DRAWING NO. 2
REVISION: 7-20-95	APPROVED BY: BRW



PEABODY COAL COMPANY
BLACK MESA - KAYENTA MINE

**TRANSFER 23/24
HAUL ROAD AS BUILT**

SCALE: 1" = 100'	DRAWN BY: WKW
DATE: 10/09/91	DRAWING NO:
REVISION:	APPROVED BY: BRW

I certify these facilities were constructed as designed and as approved in the mining permit and that the information contained herein is accurate to the best of my knowledge and belief.


 Rick R. Woodward
 Date: OCT 29 1991