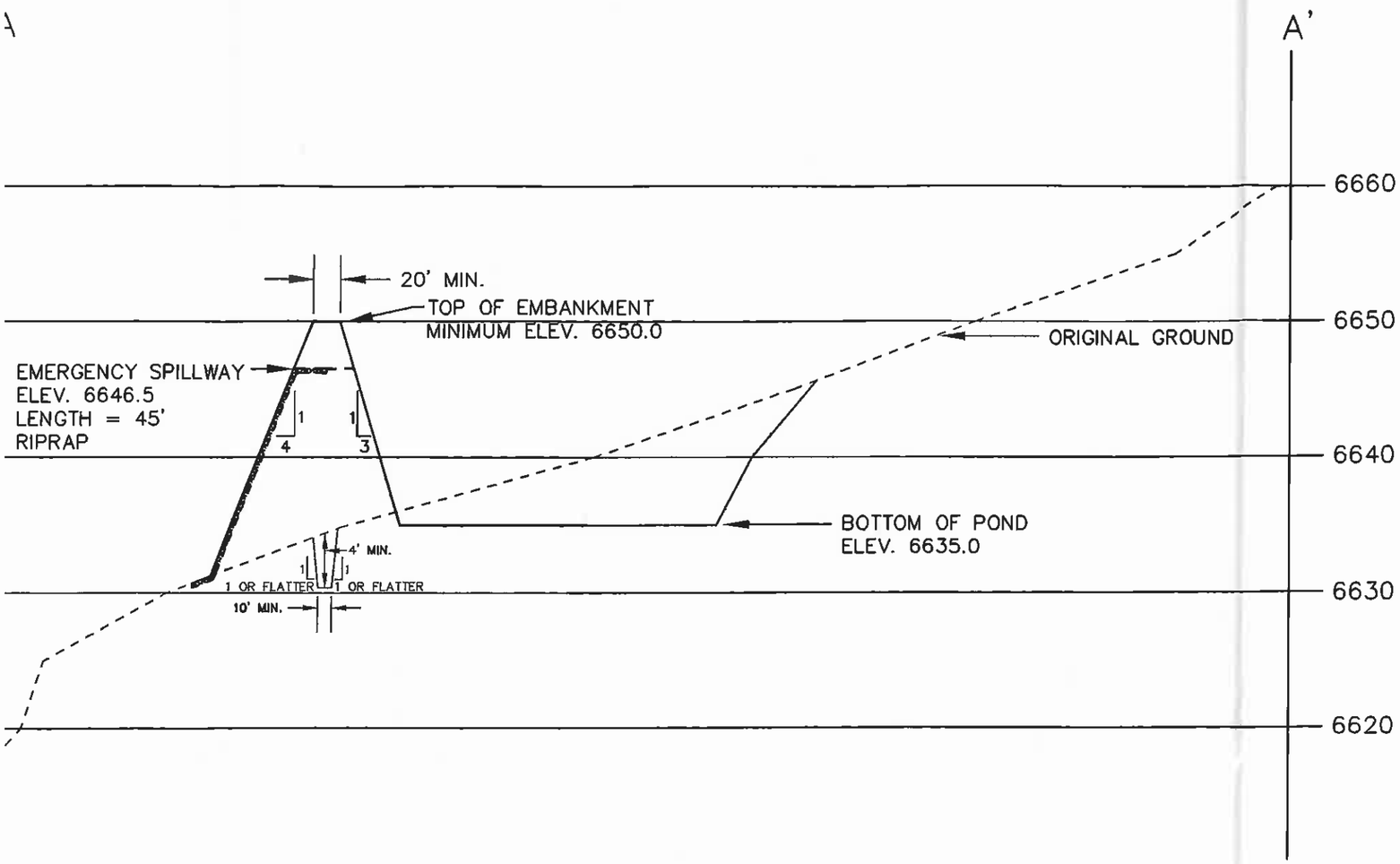
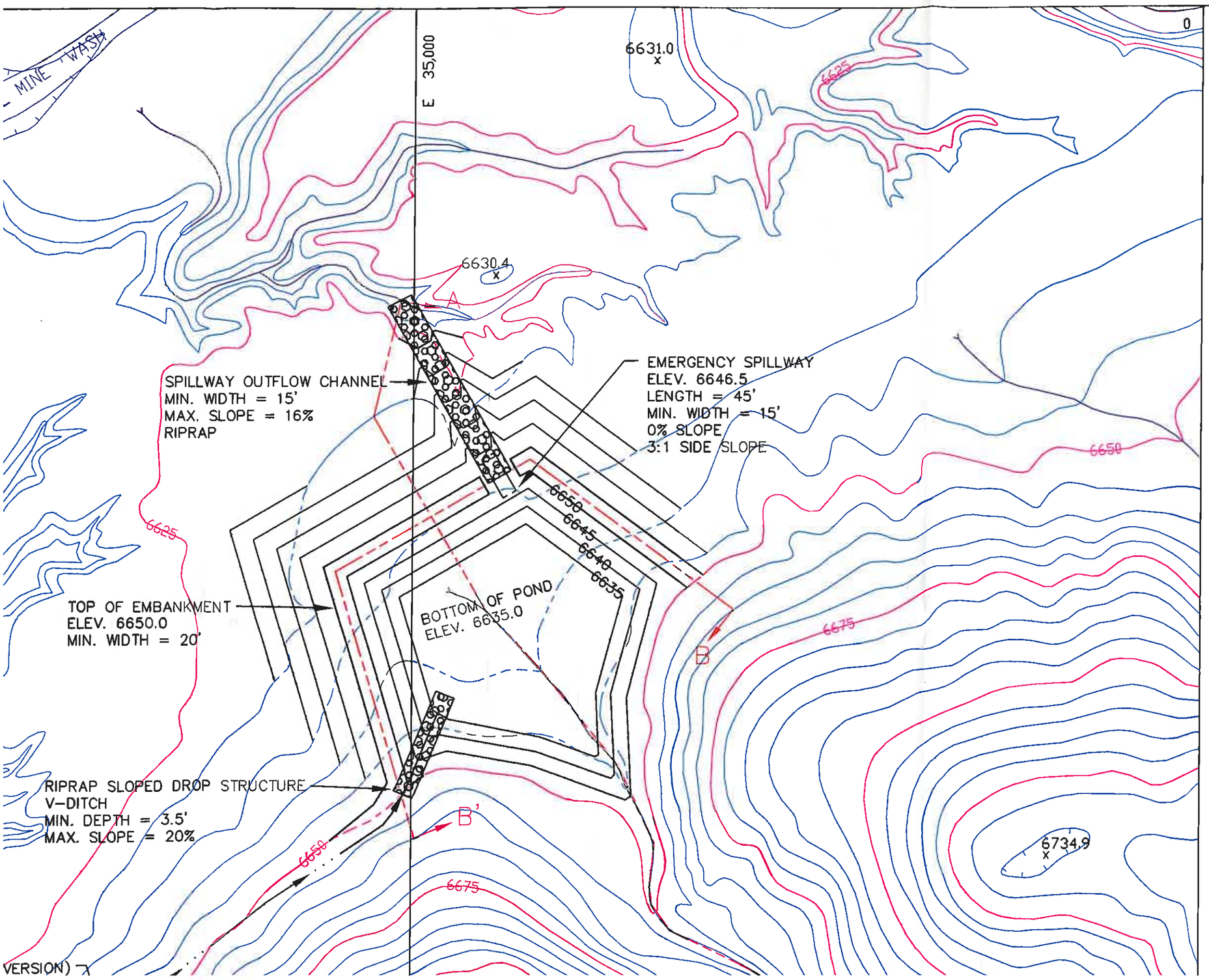
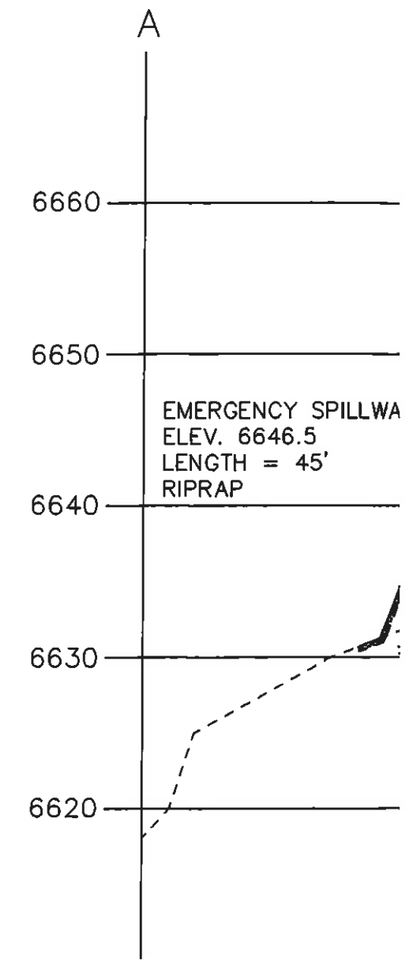
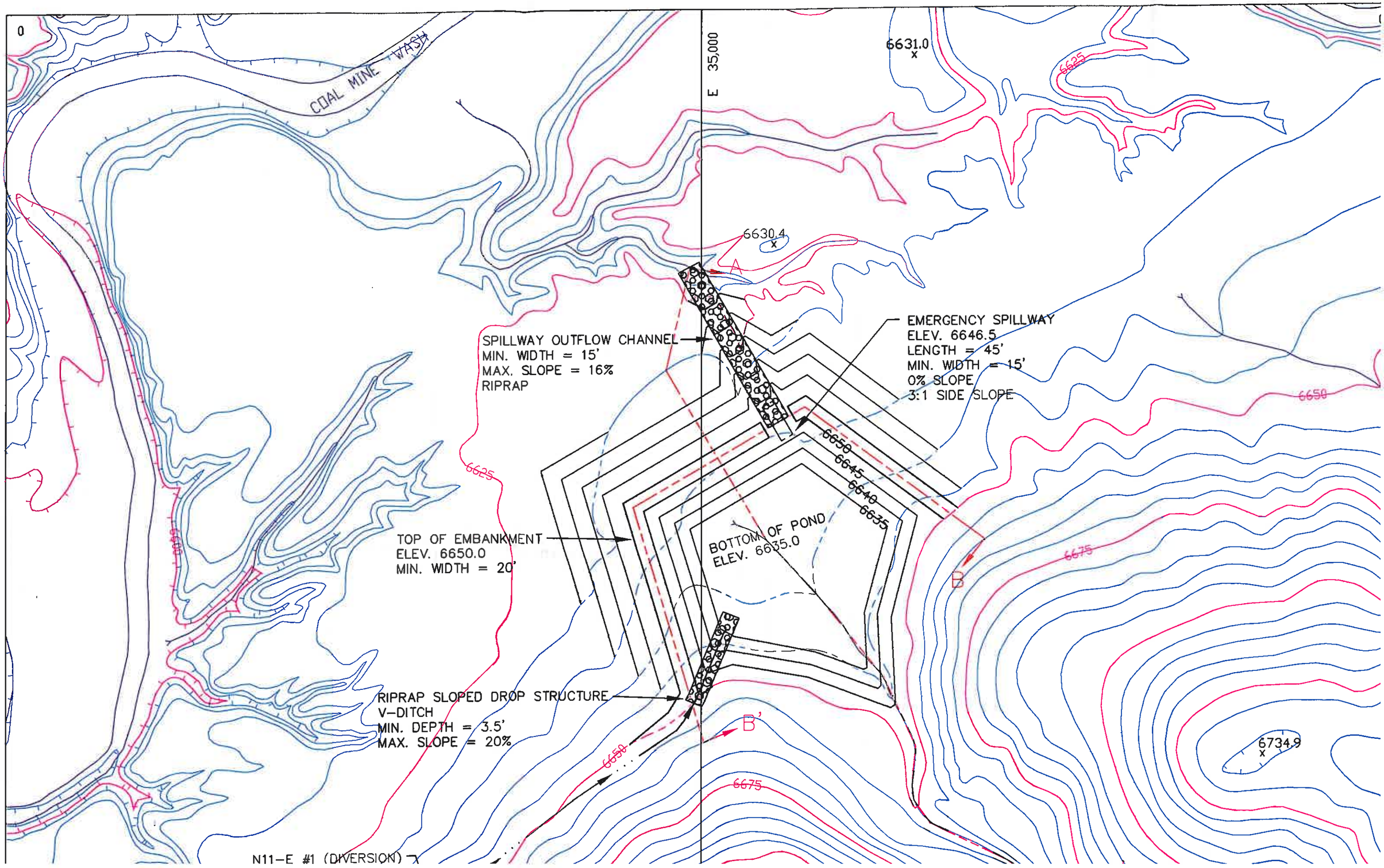


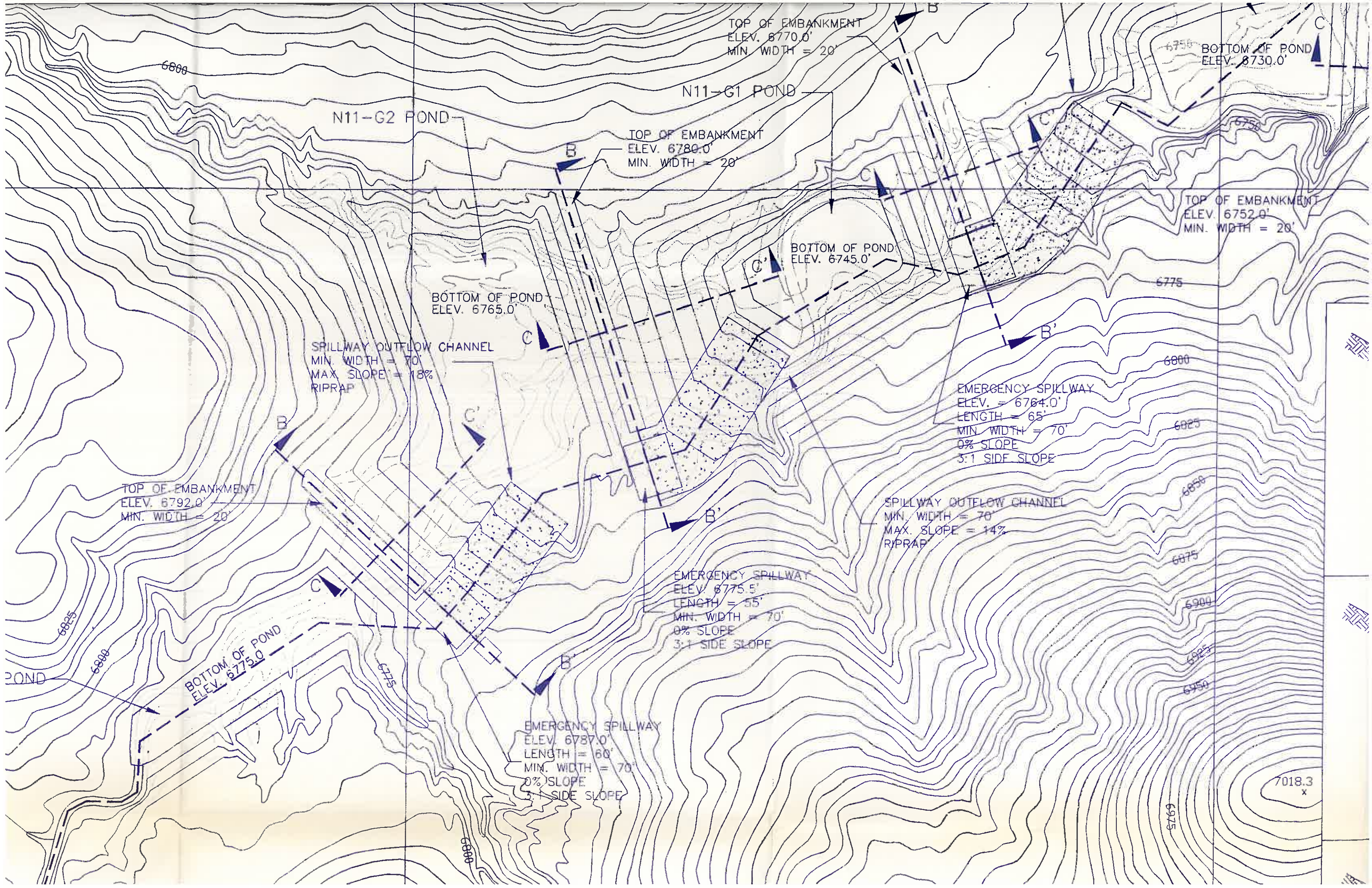
SECTION A–A'

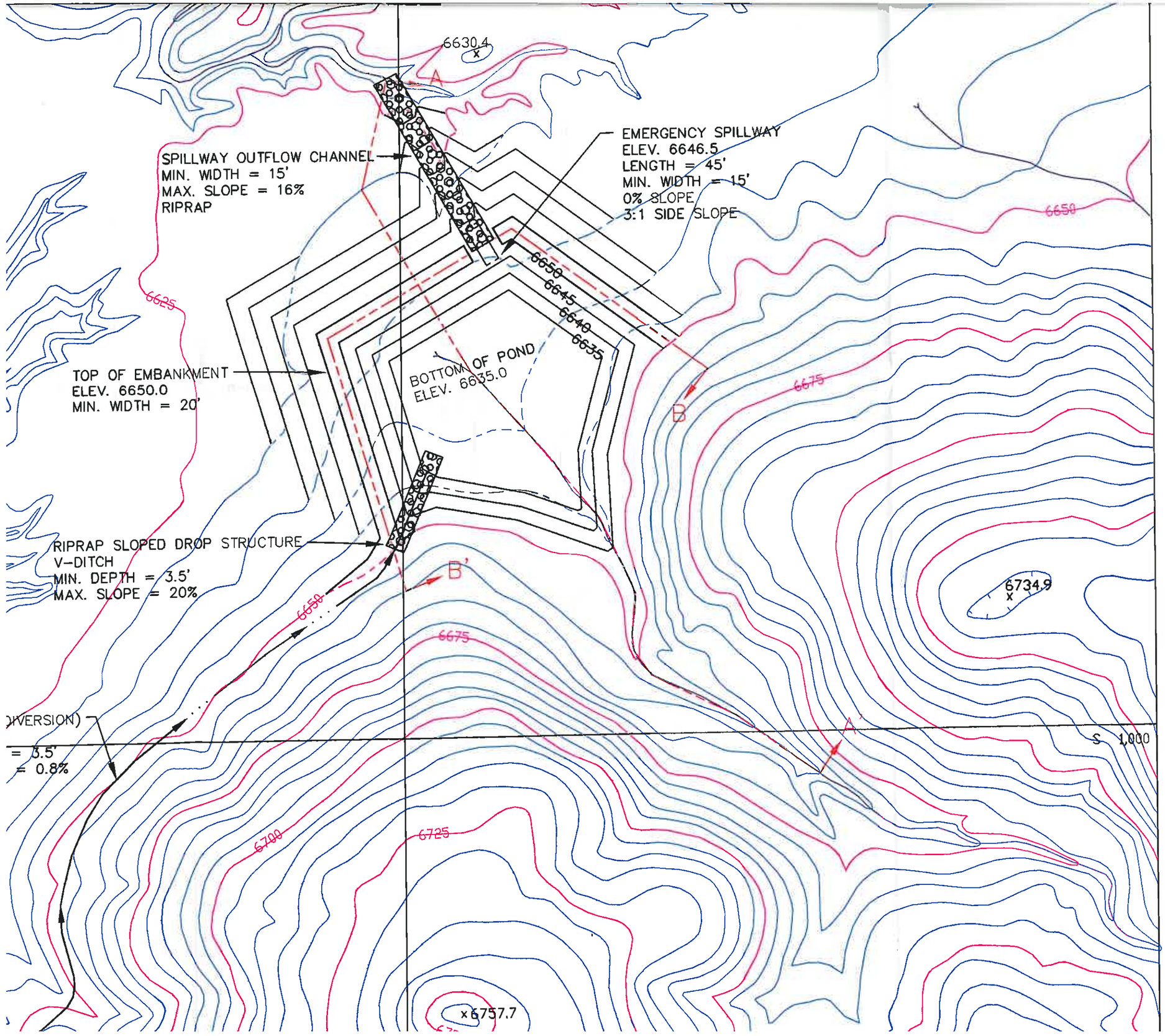
SCALE: HORIZ. 1"=100'
VERT. 1"=10'

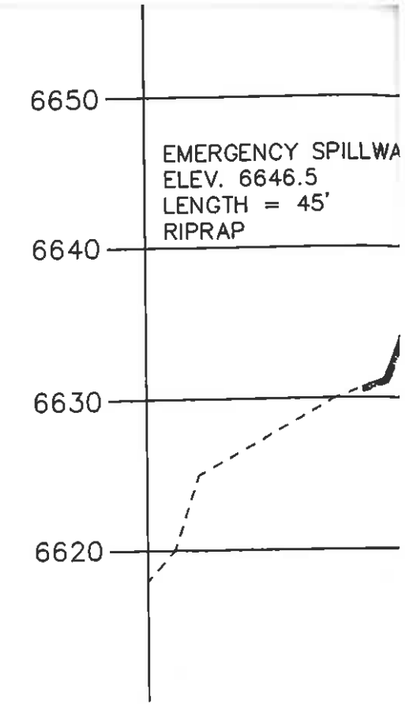

MINE WASH
E 35,000
6631.0
6630.4
6625
6650
6675
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 15'
MAX. SLOPE = 16%
RIPRAP
EMERGENCY SPILLWAY
ELEV. 6646.5
LENGTH = 45'
MIN. WIDTH = 15'
0% SLOPE
3:1 SIDE SLOPE
6650
6645
6640
6635
BOTTOM OF POND
ELEV. 6635.0
TOP OF EMBANKMENT
ELEV. 6650.0
MIN. WIDTH = 20'
B
B'
RIPRAP SLOPED DROP STRUCTURE
V-DITCH
MIN. DEPTH = 3.5'
MAX. SLOPE = 20%
6734.9
VERSION)

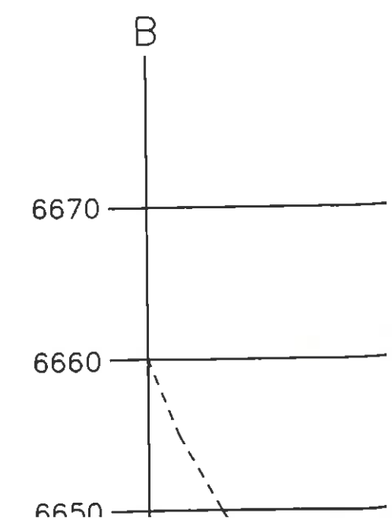

A
6660
6650
6640
6630
6620
EMERGENCY SPILLWA
ELEV. 6646.5
LENGTH = 45'
RIPRAP

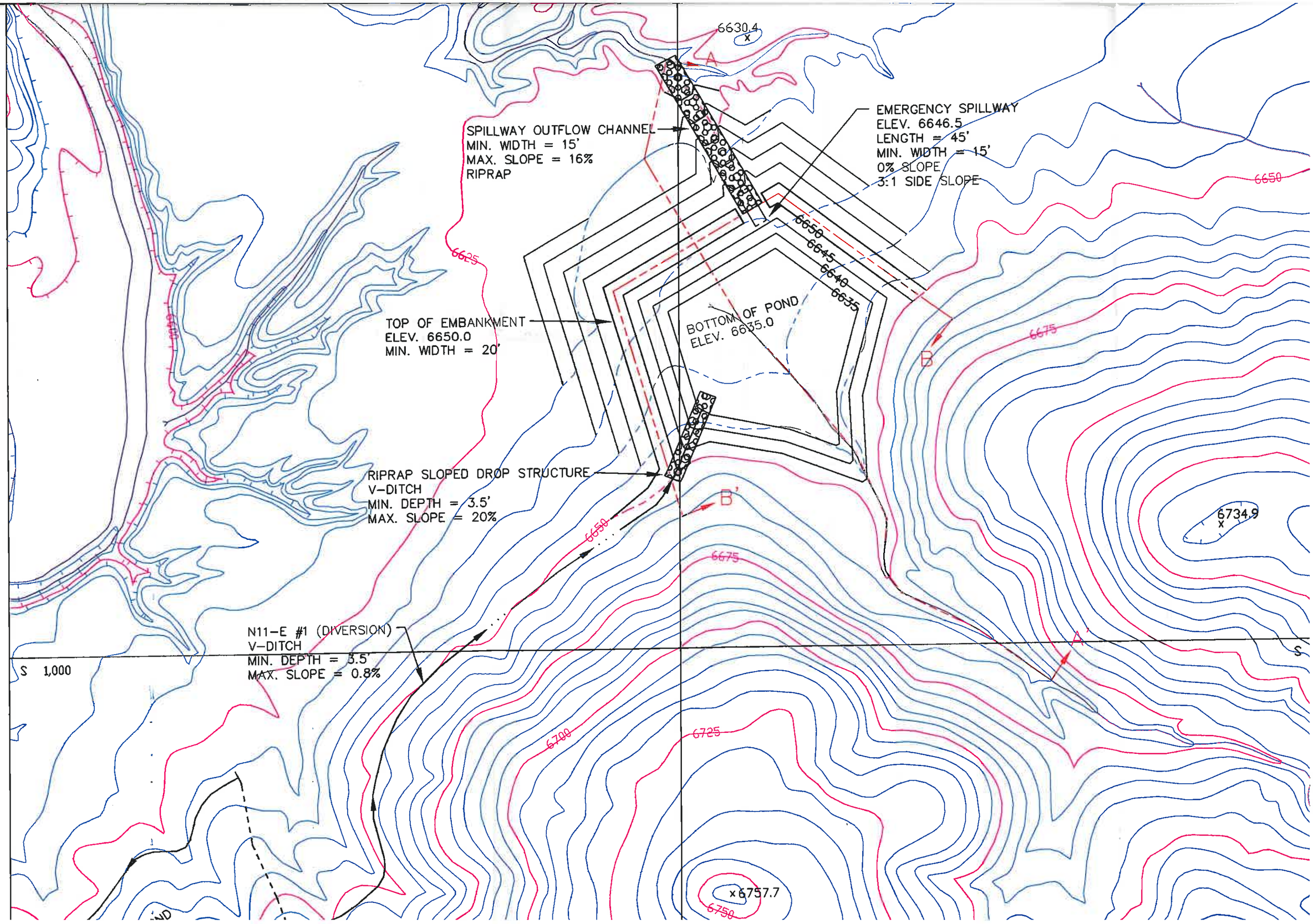

COAL MINE WASH
E 35,000
6631.0
6625
6630.4
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 15'
MAX. SLOPE = 16%
RIPRAP
EMERGENCY SPILLWAY
ELEV. 6646.5
LENGTH = 45'
MIN. WIDTH = 15'
0% SLOPE
3:1 SIDE SLOPE
6650
6645
6640
6635
6650
6625
TOP OF EMBANKMENT
ELEV. 6650.0
MIN. WIDTH = 20'
BOTTOM OF POND
ELEV. 6635.0
6675
B
RIPRAP SLOPED DROP STRUCTURE
V-DITCH
MIN. DEPTH = 3.5'
MAX. SLOPE = 20%
B'
6650
6675
6734.9
N11-E #1 (DIVERSION)

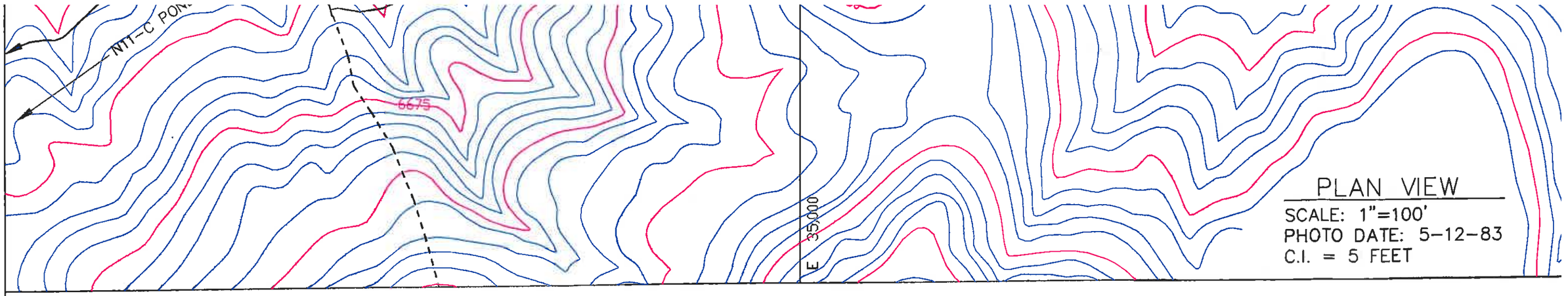

TOP OF EMBANKMENT
ELEV. 6770.0'
MIN. WIDTH = 20'
BOTTOM OF POND
ELEV. 6730.0'
N11-G1 POND
N11-G2 POND
TOP OF EMBANKMENT
ELEV. 6780.0'
MIN. WIDTH = 20'
TOP OF EMBANKMENT
ELEV. 6752.0'
MIN. WIDTH = 20'
BOTTOM OF POND
ELEV. 6745.0'
BOTTOM OF POND
ELEV. 6765.0'
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 70'
MAX. SLOPE = 18%
RIPRAP
EMERGENCY SPILLWAY
ELEV. = 6764.0'
LENGTH = 65'
MIN. WIDTH = 70'
0% SLOPE
3:1 SIDE SLOPE
TOP OF EMBANKMENT
ELEV. 6792.0'
MIN. WIDTH = 20'
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 70'
MAX. SLOPE = 14%
RIPRAP
EMERGENCY SPILLWAY
ELEV. 6775.5'
LENGTH = 55'
MIN. WIDTH = 70'
0% SLOPE
3:1 SIDE SLOPE
BOTTOM OF POND
ELEV. 6775.0
POND
EMERGENCY SPILLWAY
ELEV. 6787.0'
LENGTH = 60'
MIN. WIDTH = 70'
0% SLOPE
3:1 SIDE SLOPE
7018.3
6800
6825
6850
6875
6900
6925
6950
6975
6775
6750
B
B'
C
C'


6630.4
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 15'
MAX. SLOPE = 16%
RIPRAP
EMERGENCY SPILLWAY
ELEV. 6646.5
LENGTH = 45'
MIN. WIDTH = 15'
0% SLOPE
3:1 SIDE SLOPE
6650
6645
6640
6635
6625
6650
6675
TOP OF EMBANKMENT
ELEV. 6650.0
MIN. WIDTH = 20'
BOTTOM OF POND
ELEV. 6635.0
A
B
RIPRAP SLOPED DROP STRUCTURE
V-DITCH
MIN. DEPTH = 3.5'
MAX. SLOPE = 20%
B'
6650
6675
6734.9
DIVERSION)
= 3.5'
= 0.8%
A'
S 1,000
6700
6725
6757.7

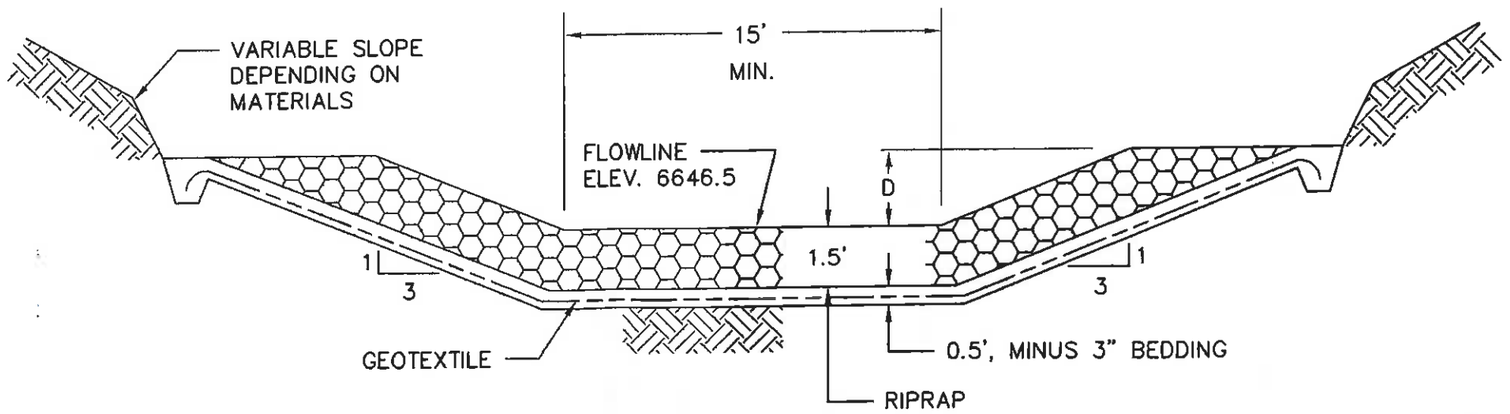

6650
6640
6630
6620
EMERGENCY SPILLWA
ELEV. 6646.5
LENGTH = 45'
RIPRAP


B
6670
6660
6650


6630.4
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 15'
MAX. SLOPE = 16%
RIPRAP
EMERGENCY SPILLWAY
ELEV. 6646.5
LENGTH = 45'
MIN. WIDTH = 15'
0% SLOPE
3:1 SIDE SLOPE
6650
6645
6640
6635
6625
6650
6675
TOP OF EMBANKMENT
ELEV. 6650.0
MIN. WIDTH = 20'
BOTTOM OF POND
ELEV. 6635.0
A
B
RIPRAP SLOPED DROP STRUCTURE
V-DITCH
MIN. DEPTH = 3.5'
MAX. SLOPE = 20%
B'
6650
6675
6734.9
N11-E #1 (DIVERSION)
V-DITCH
MIN. DEPTH = 3.5'
MAX. SLOPE = 0.8%
A'
S
S 1,000
6700
6725
6757.7
6750



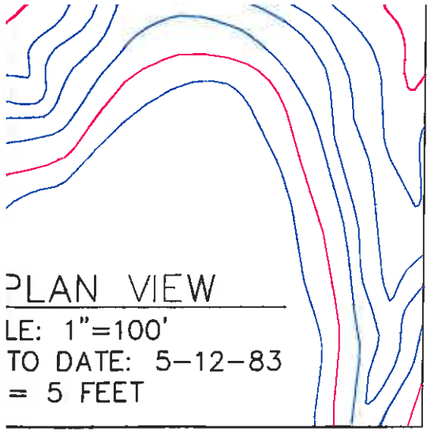
PLAN VIEW
SCALE: 1"=100'
PHOTO DATE: 5-12-83
C.I. = 5 FEET



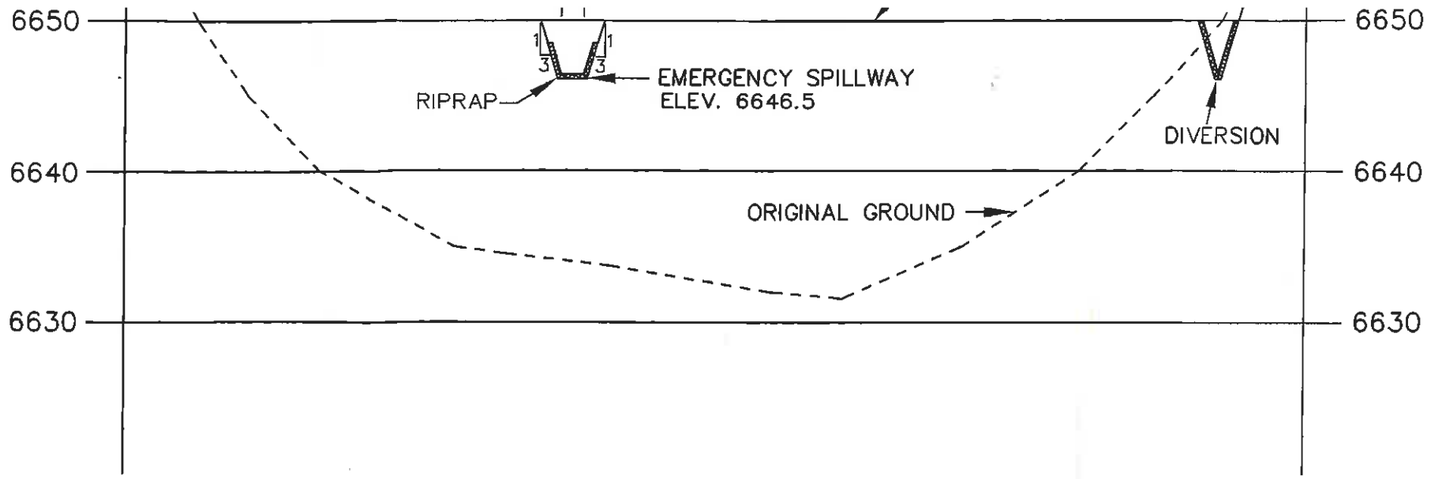
SPILLWAY MIN. D = 2'
OUTFLOW CHANNEL MIN. D = 2'

SECTION OF EMERGENCY SPILLWAY
NOT DRAWN TO SCALE

ELEV. (FT.-MSL)	S
6635	
6640	
6645	1
6646.5	1
6650	1



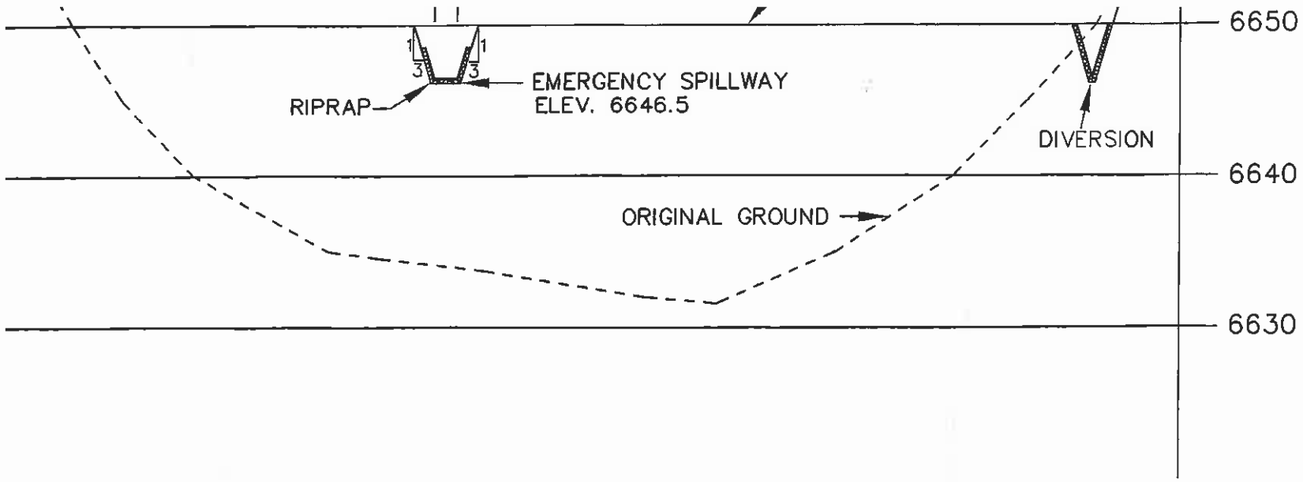
PLAN VIEW
LE: 1"=100'
TO DATE: 5-12-83
= 5 FEET



SECTION B-B'
SCALE: HORIZ. 1"=100'
VERT. 1"=10'

ELEV. (FT.-MSL)	STAGE (FT.)	AREA (ACRES)	CAP. (AC.-FT.)	TOT CAP. (AC.-FT.)	DESCRIPTION
6635	0.00	0.81	0.00	0.00	BOTTOM OF POND
6640	5.00	1.09	4.73	4.73	
6645	10.00	1.41	6.23	10.97	
6646.5	11.50	1.53	2.21	13.17	EMERGENCY SPILLWAY
6650	15.00	1.84	5.90	19.07	TOP OF EMBANKMENT

NOTES:
1) General location, see Drawing 85400, Sheet L-7 and Drawing No. 85405.
2) See Chapter 6, Black Mesa PAP for Construction Specifications.
3) See Vol. 2, Chapter 6, Attachment D, Sections 1-3 for description of Geotechnical Evaluation.
4) Salvage topsoil in accordance with approved topsoil salvage plan.
5) Reclamation of the disturbed area above the high waterline shall be in accordance with the approved reclamation plan.
6) Diversion construction typical cross section and construction specifications see terrace and downdrain design and specifications in Chapter 26, BM-PAP.



SECTION B–B'
SCALE: HORIZ. 1"=100'
VERT. 1"=10'

BUREAU OF LAND MANAGEMENT
RECEIVED
JUL 22 1993
PHX. DO – DIV. OF MINERALS

ENGINEER'S CERTIFICATION

JAMES GARY VOGT
Senior Engineer
Peabody Company

ARIZONA P.E. 18782

Date: JUL 06 1993

ESCRIPTION

TOM OF POND

ERGENCY SPILLWAY

OF EMBANKMENT

NOTES:
1) General location, see Drawing 85400, Sheet L–7 and Drawing No. 85405.
2) See Chapter 6, Black Mesa PAP for Construction Specifications.
3) See Vol. 2, Chapter 6, Attachment D, Sections 1–3 for description of Geotechnical Evaluation.
4) Salvage topsoil in accordance with approved topsoil salvage plan.
5) Reclamation of the disturbed area above the high waterline shall be in accordance with the approved reclamation plan.
6) Diversion construction typical cross section and construction specifications see terrace and downdrain design and specifications in Chapter 26, BM–PAP.

EXHIBIT 1

PROPOSED N11–E TEMPORARY SEDIMENTATION POND

KAYENTA MINE

PEABODY WESTERN 1300 S. YALE FLAGSTAFF, AZ 86001

DESIGNED BY: P.C.C.	SCALE: AS SHOWN
DRAWN BY: G.Y.	DRAWING DATE: 10–9–92
CHECKED BY: J.G.S.	PHOTO DATE: 5–12–83
CONTOUR INTERVAL: 5 FEET	