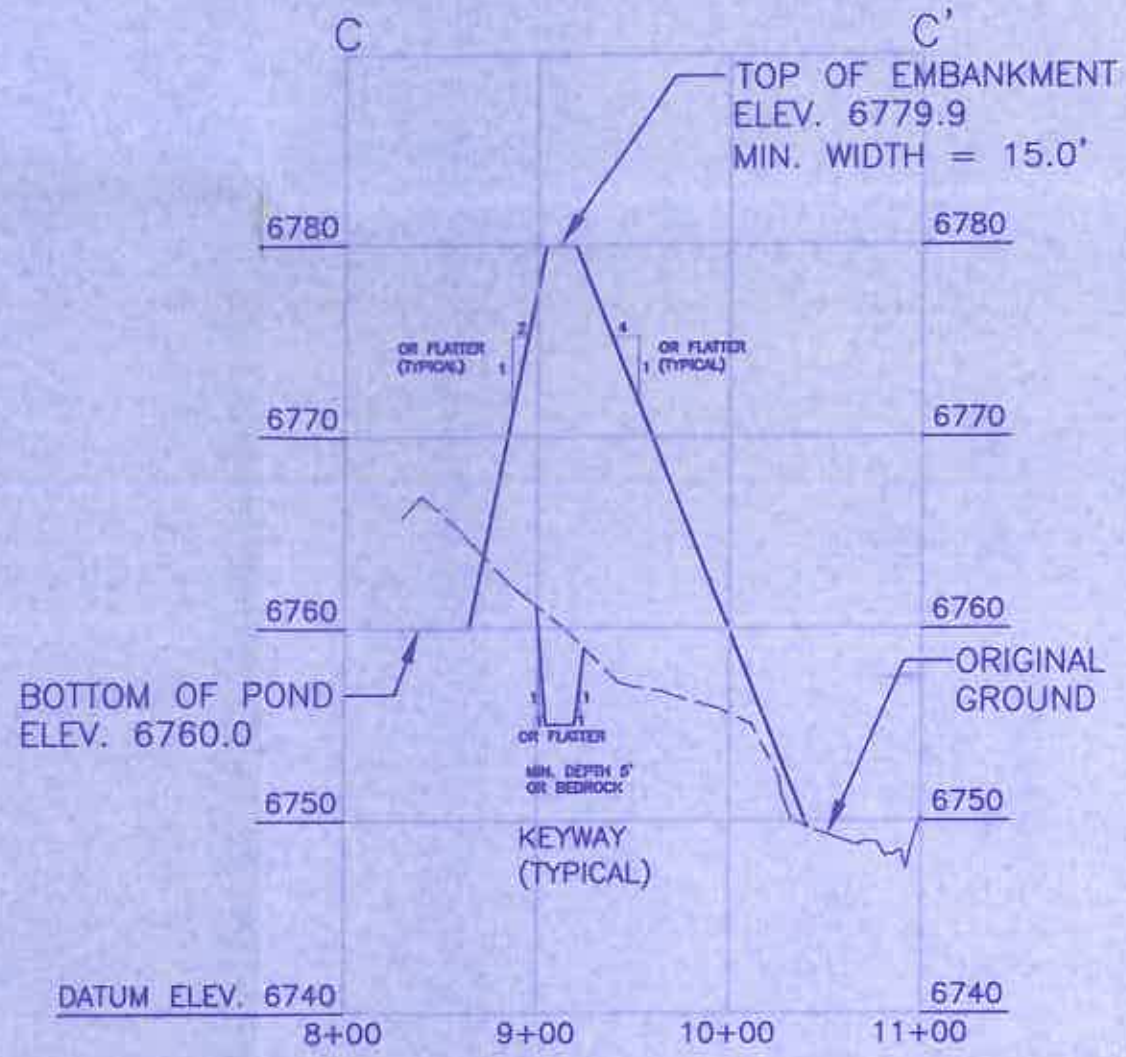


SECTION A - A'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'



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



N-9 MINING AREA

6850

25,000 E

6850

N9-B2 POND
BOTTOM OF POND
ELEV. 6760.0

6800

200' EMERGENCY SPILLWAY
ELEV. 6776.8'
MIN. WIDTH = 20.0'
3:1 SIDE SLOPE

6775 SPILLWAY OUTFLOW CHANNEL

6925

6900

6875

6850

6825

6800

6775

6900

6900

6925

9,000 N

27,000 E

EMERGENCY SPILLWAY
ELEV. 677
MIN. WIDTH = 2
3:1 SIDE SL
6790

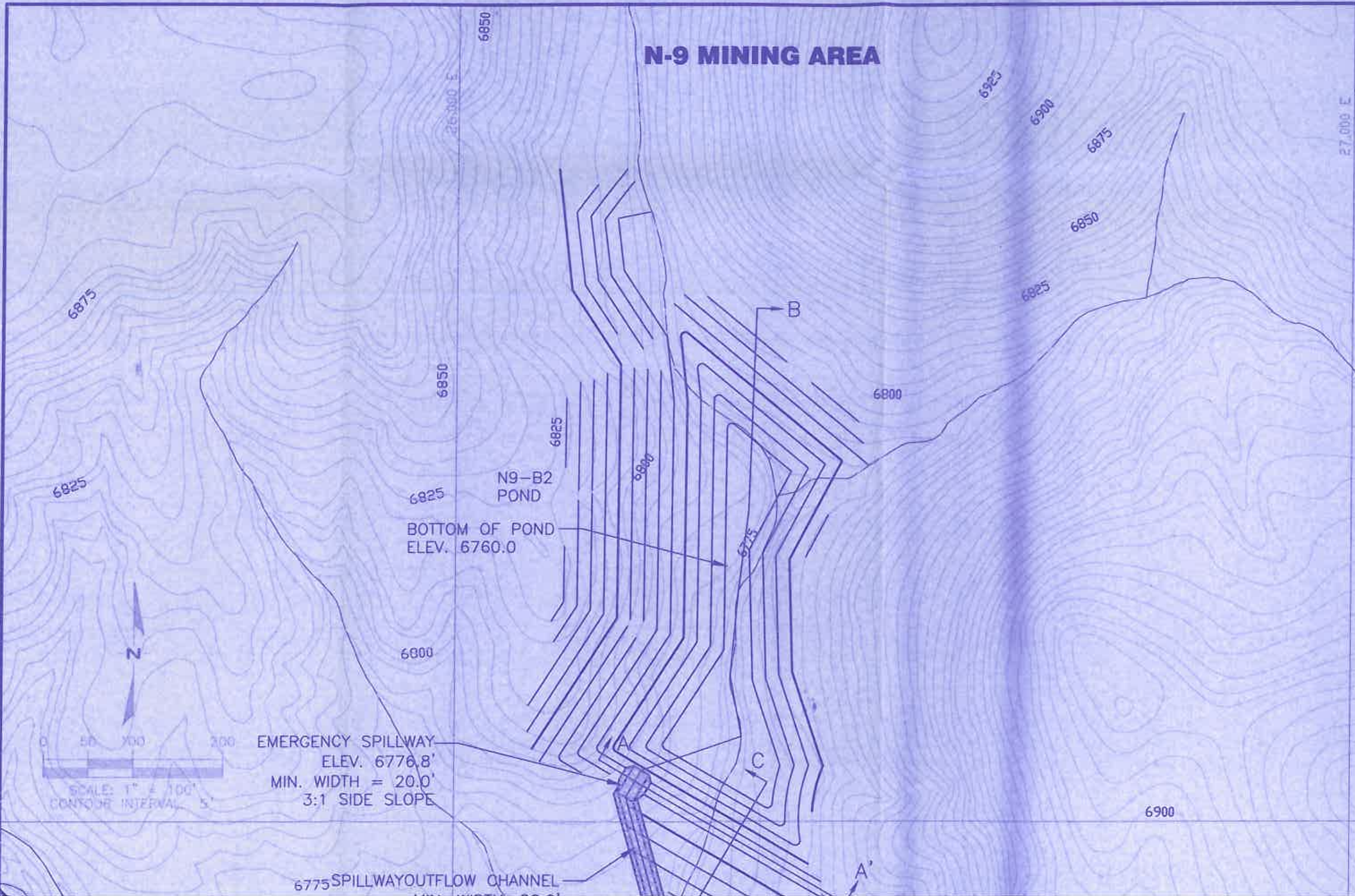
6780

6770

6760

DATUM ELEV. 6750
10+

N-9 MINING AREA



6850

26,000 E

6850

6825

6800

6800

6775 SPILLWAY OUTFLOW CHANNEL

N9-B2 POND

BOTTOM OF POND
ELEV. 6760.0

EMERGENCY SPILLWAY
ELEV. 6776.8'
MIN. WIDTH = 20.0'
3:1 SIDE SLOPE

6825

6900

6775

6800

6925

6900

6875

6850

6825

6900

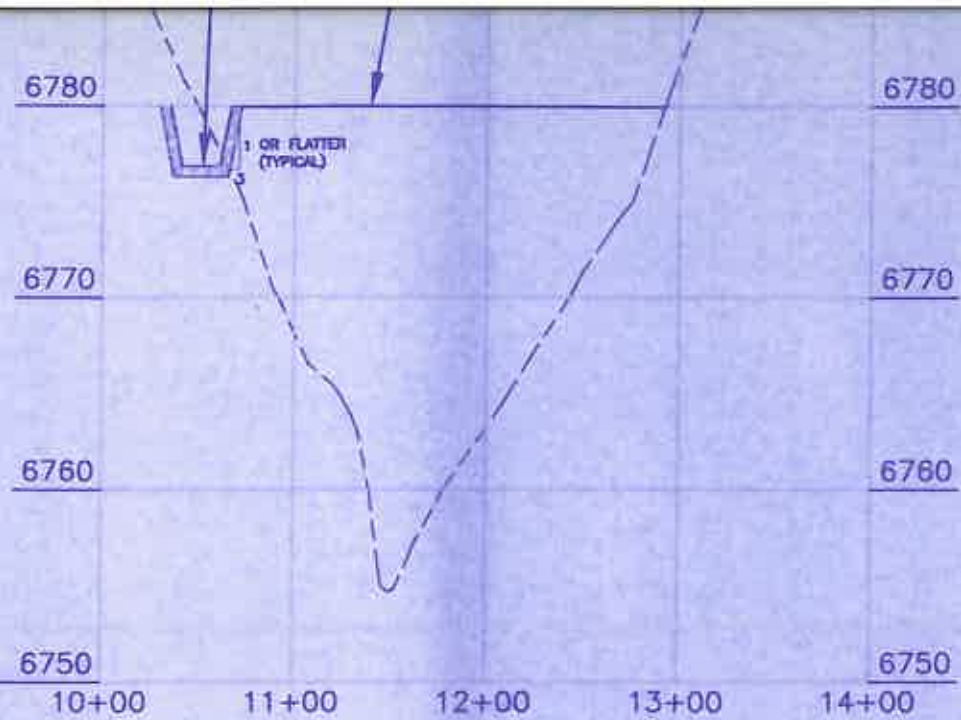
27,000 E

6875

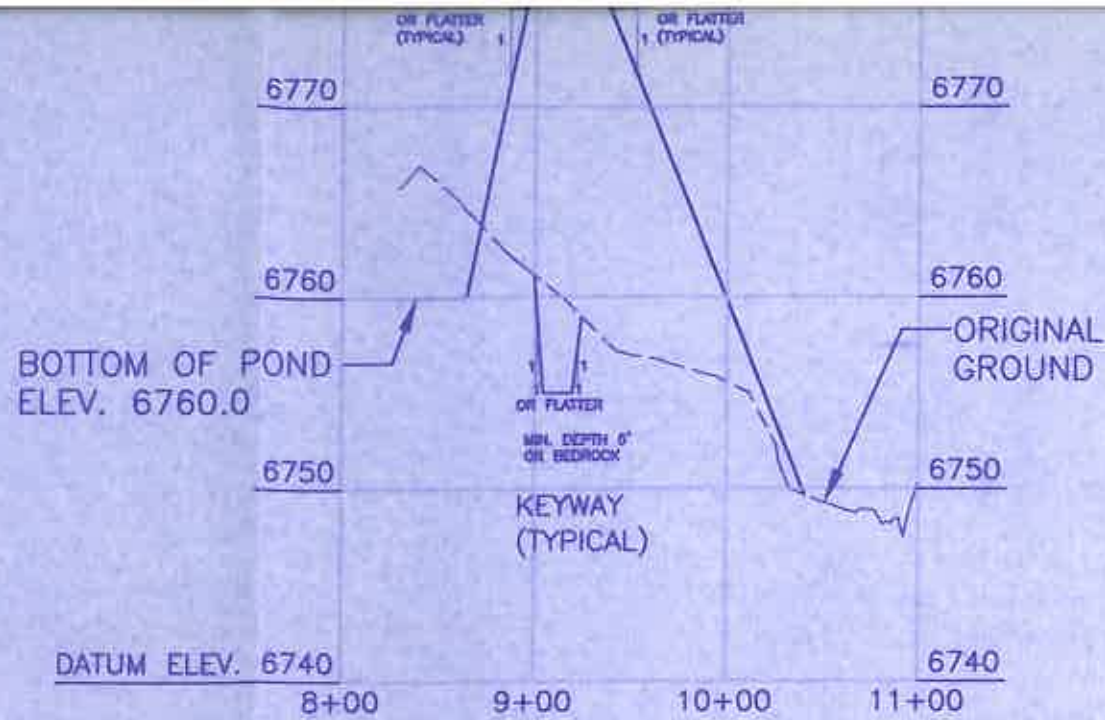
6825

N

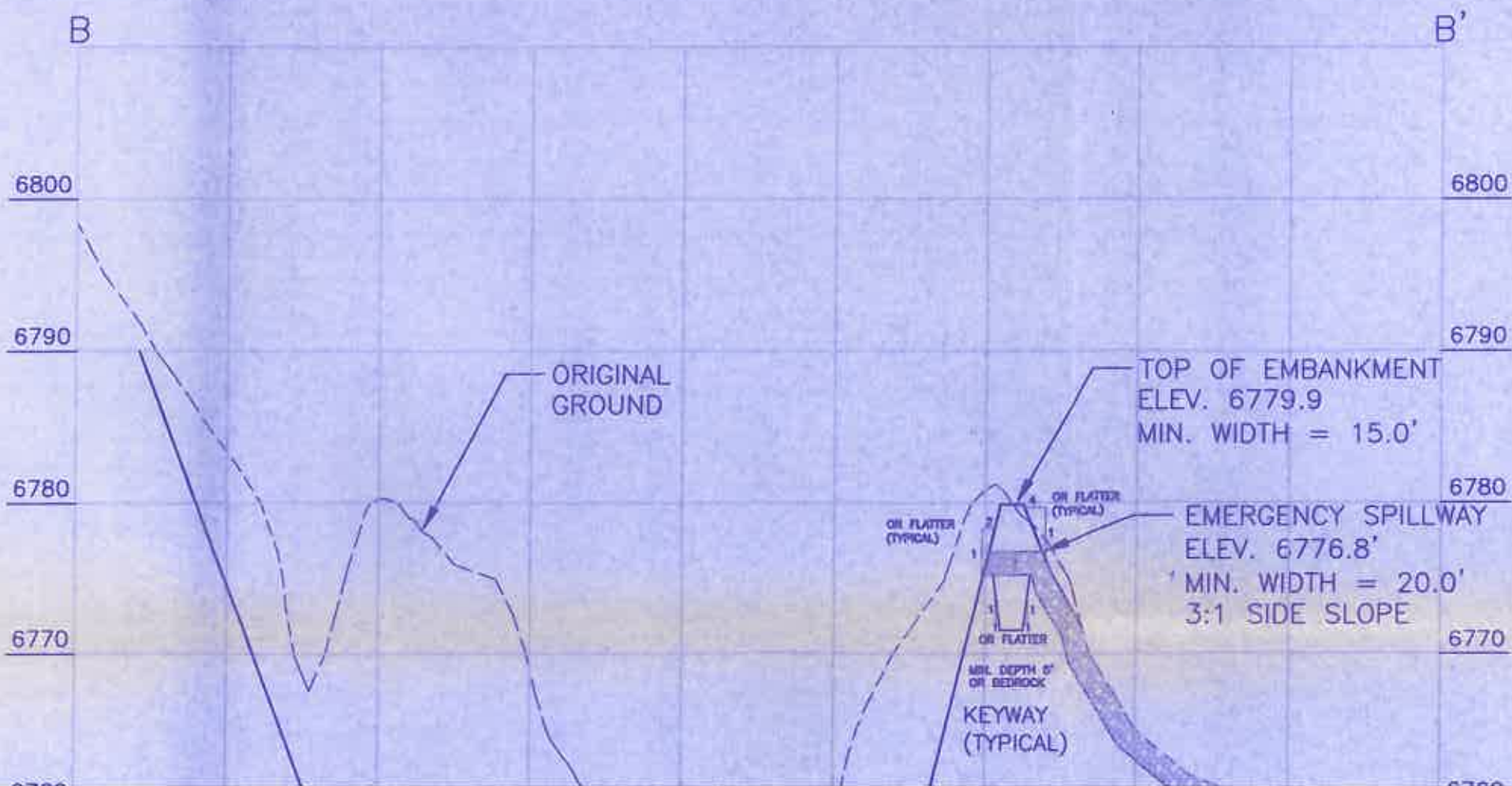
0 50 100 200
SCALE: 1" = 100'
CONTOUR INTERVAL: 5'



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



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

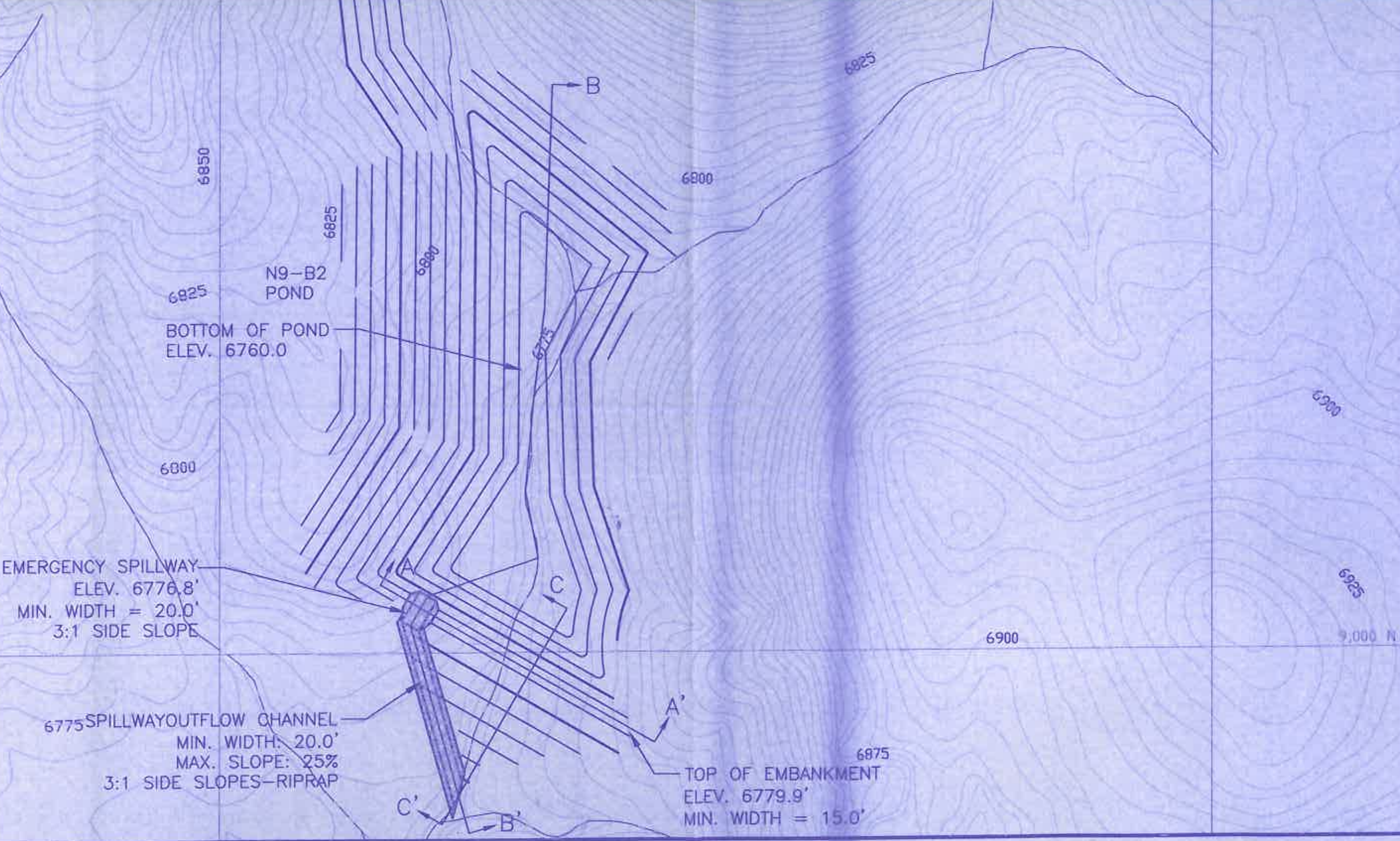


6780

6770

6760

DATUM ELEV. 6750
10+00



EMERGENCY SPILLWAY
ELEV. 6776.8'
MIN. WIDTH = 20.0'
3:1 SIDE SLOPE

6775 SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH: 20.0'
MAX. SLOPE: 25%
3:1 SIDE SLOPES-RIPRAP

6850

6825

6800

N9-B2
POND

BOTTOM OF POND
ELEV. 6760.0

B

6800

6825

6775

C

6900

6925

9,000 N

A

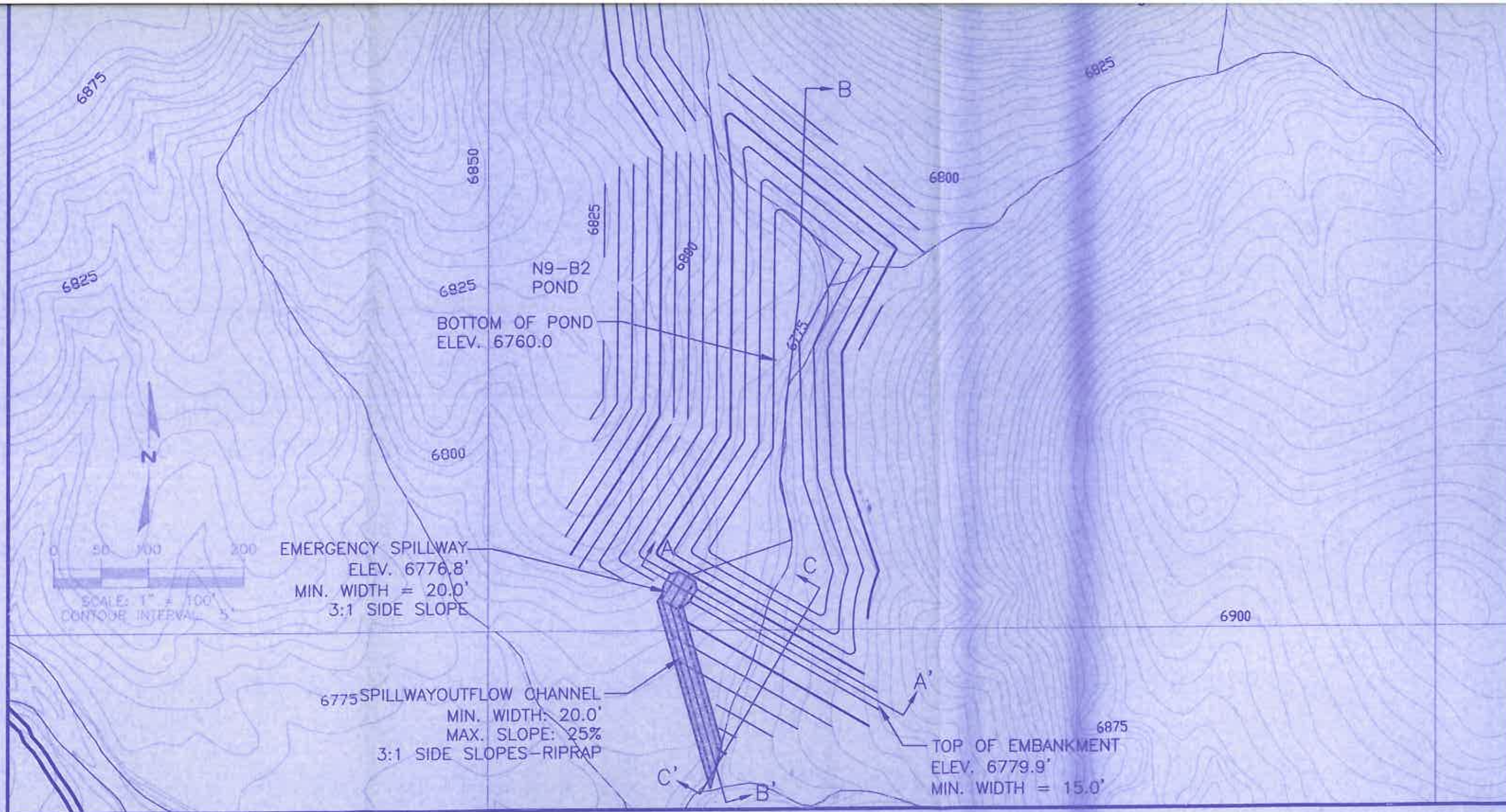
A'

6875

TOP OF EMBANKMENT
ELEV. 6779.9'
MIN. WIDTH = 15.0'

C'

B'



6875

6825

6850

6800

6825

N9-B2
POND

6825

6825

BOTTOM OF POND
ELEV. 6760.0

6800

6775

N

6800

0 50 100 200

EMERGENCY SPILLWAY
ELEV. 6776.8'
MIN. WIDTH = 20.0'
3:1 SIDE SLOPE

SCALE: 1" = 100'
CONTOUR INTERVAL 5'

6900

6775 SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH: 20.0'
MAX. SLOPE: 25%
3:1 SIDE SLOPES-RIPRAP

6875
TOP OF EMBANKMENT
ELEV. 6779.9'
MIN. WIDTH = 15.0'

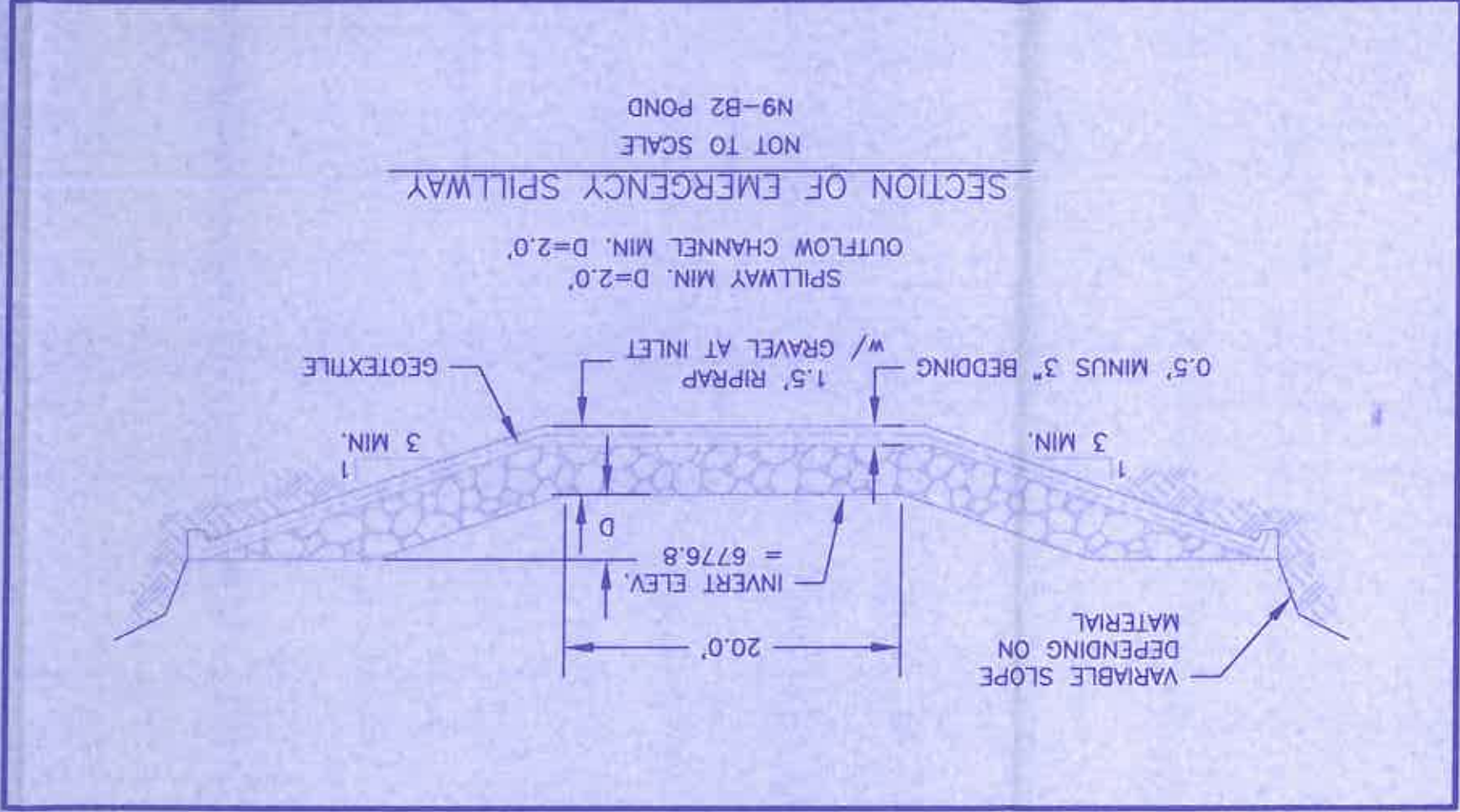
C'

B'

A'

C

B



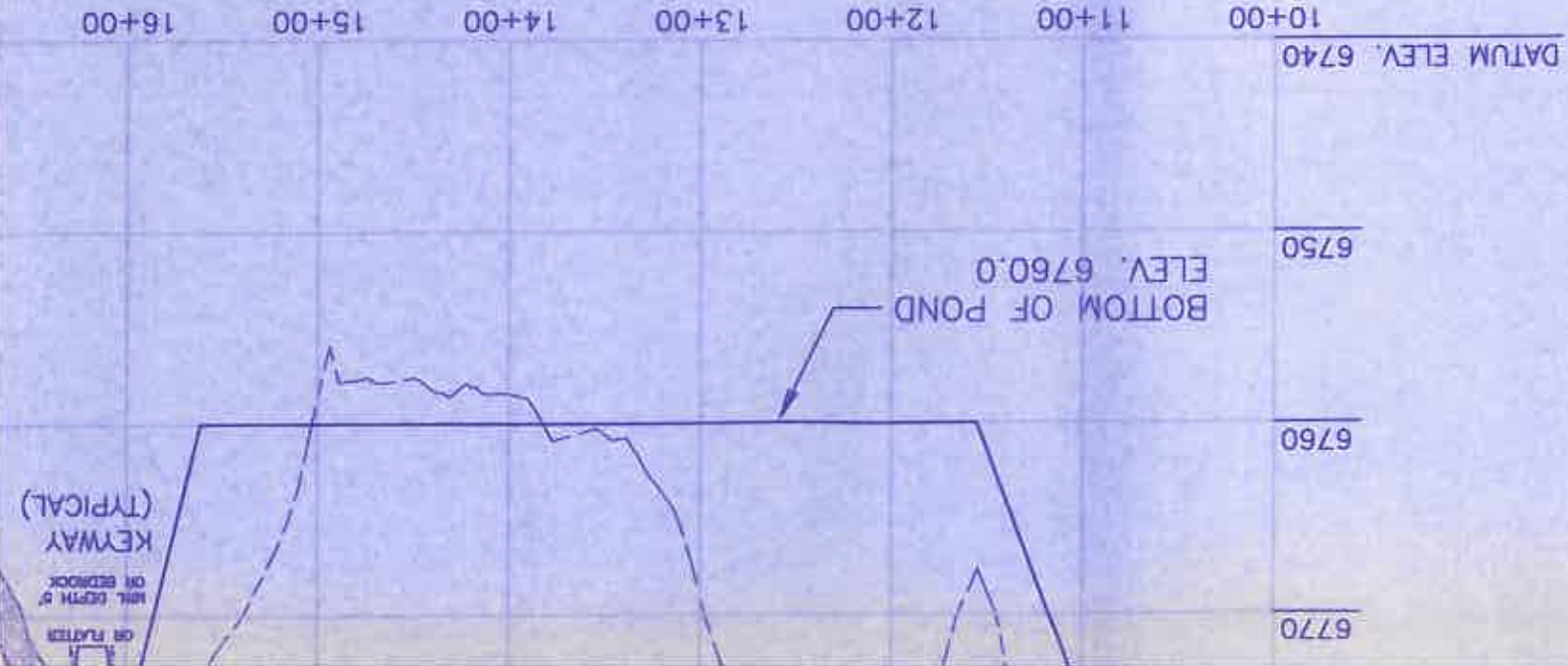
ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	CA
6760.0	0.0	0.51	
6765.0	5.0	0.87	
6770.0	10.0	1.27	
6775.0	15.0	1.72	
6776.8	16.8	1.93	
6779.9	19.9	2.32	

N9-B2 POND STAG

WOODSON
 ENGINEERING AND SURVEYING, INC.
 124 N. ELDEN ST.
 FLAGSTAFF, AZ 86001
 PHONE: (928) 774-4636 FAX: (928) 774-4646

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6779.9	19.9	2.32	26.35	TOP OF EMBANKMENT
6776.8	16.8	1.93	19.55	EMERGENCY SPILLWAY
6775.0	15.0	1.72	16.26	
6770.0	10.0	1.27	8.80	
6765.0	5.0	0.87	3.46	INCISED ELEV.
6760.0	0.0	0.51	0.00	BOTTOM OF POND

N9-B2 POND STAGE CAPACITY TABLE



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

James G. Schenck
 JAMES G. SCHENCK
 Engineering Supervisor
 Peabody Western Coal Company
 ARIZONA P.E. 18782
 DEC 23 2004



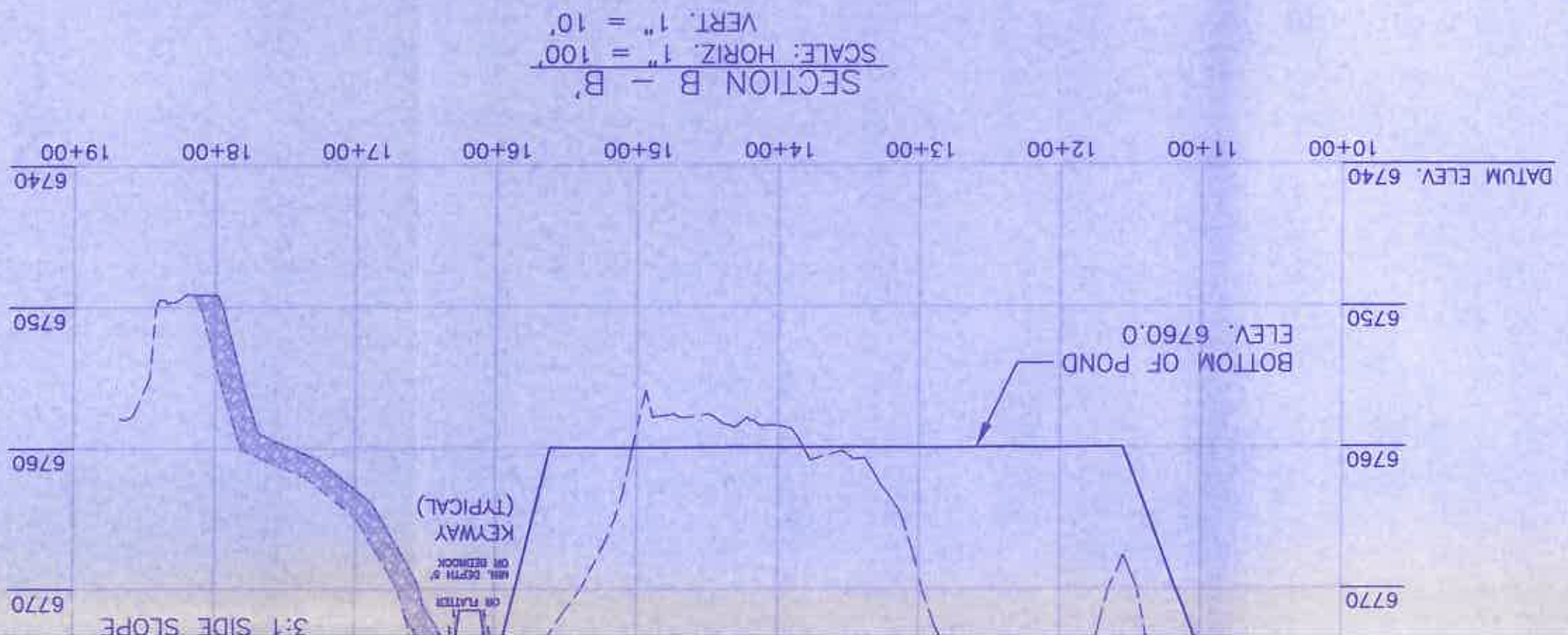
- NOTES:
- 1) General location, see Drawing No. 85400, Sheet K
 - 2) See Chapter 6, Black Mesa PAP for Construction
 - 3) See Vol. 2, Chapter 6, Attachment B, Sections 1, Geotechnical Evaluation.
 - 4) Salvage topsoil in accordance with approved top
 - 5) Reclamation of the disturbed area above the hi
 - 6) Ponding area side slopes, typical 3:1 slope or fi
- topography.

WOODSON
 ENGINEERING AND SURVEYING, INC.
 124 N. ELDEN ST.
 FLAGSTAFF, AZ 86001
 PHONE: (928) 774-4636 FAX: (928) 774-4646

EXHIBIT # 1
PROPOSED N9-B2
SEDIMENTATION POND DESIGN
KAYENTA MINE
 PEABODY WESTERN COAL COMPANY
 P. O. BOX 650 KAYENTA, ARIZONA 86033
 DESIGNED BY: GA SCALE: AS NOTED
 DRAWN BY: PEK DRAWING DATE: 11-22-04
 CHECKED BY: JGS PHOTO DATE: 05-83
 CONTOUR INTERVAL: 5 FT. DWG FILE: POND N9-B2.DWG

- NOTES:**
- 1) General location, see Drawing No. 85400, Sheet K-6 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) Ponding area side slopes, typical 3:1 slope or flatter and blend into natural topography.

ARIZONA P.E. 18782
 JAMES G. SCHUBERT
 Peabody Western Coal Company
 Date: **DEC 23 2004**

ANKMENT
SPILLWAY
ELEV.
POND
TION