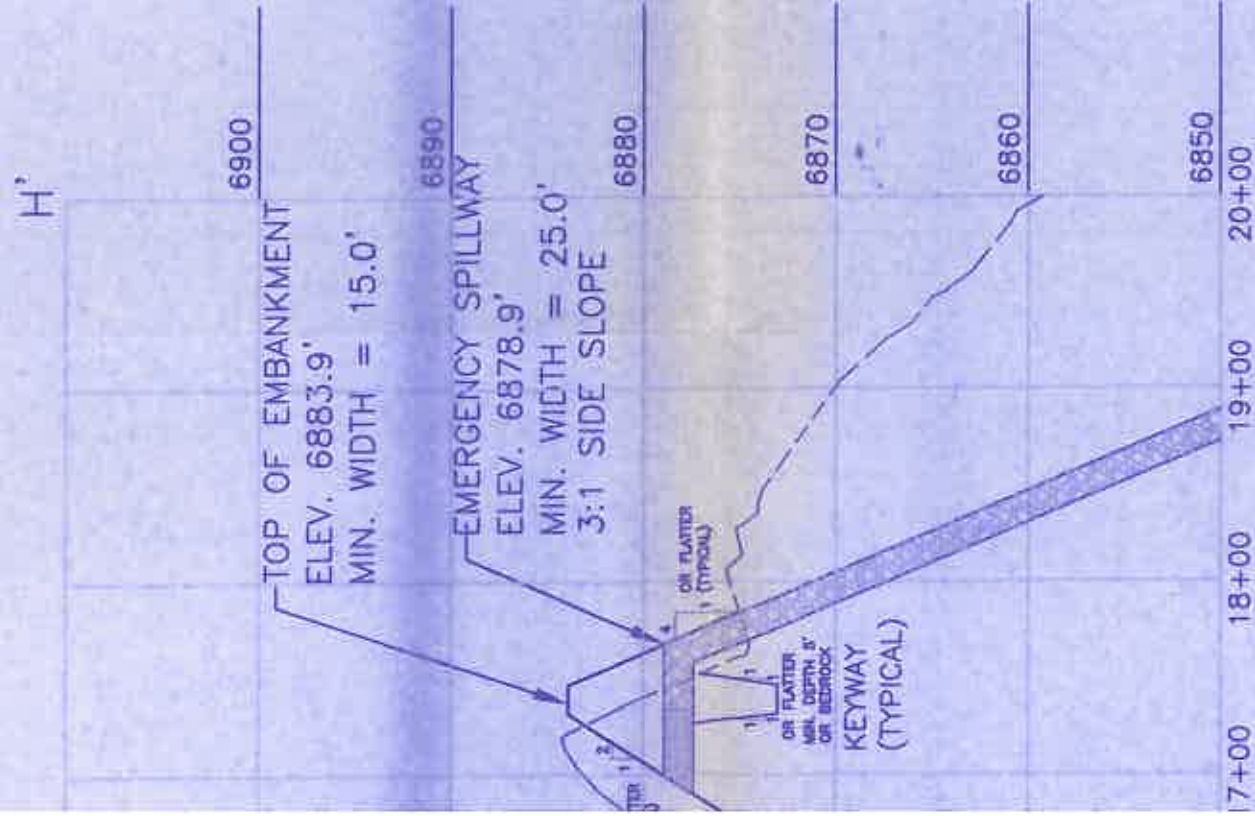


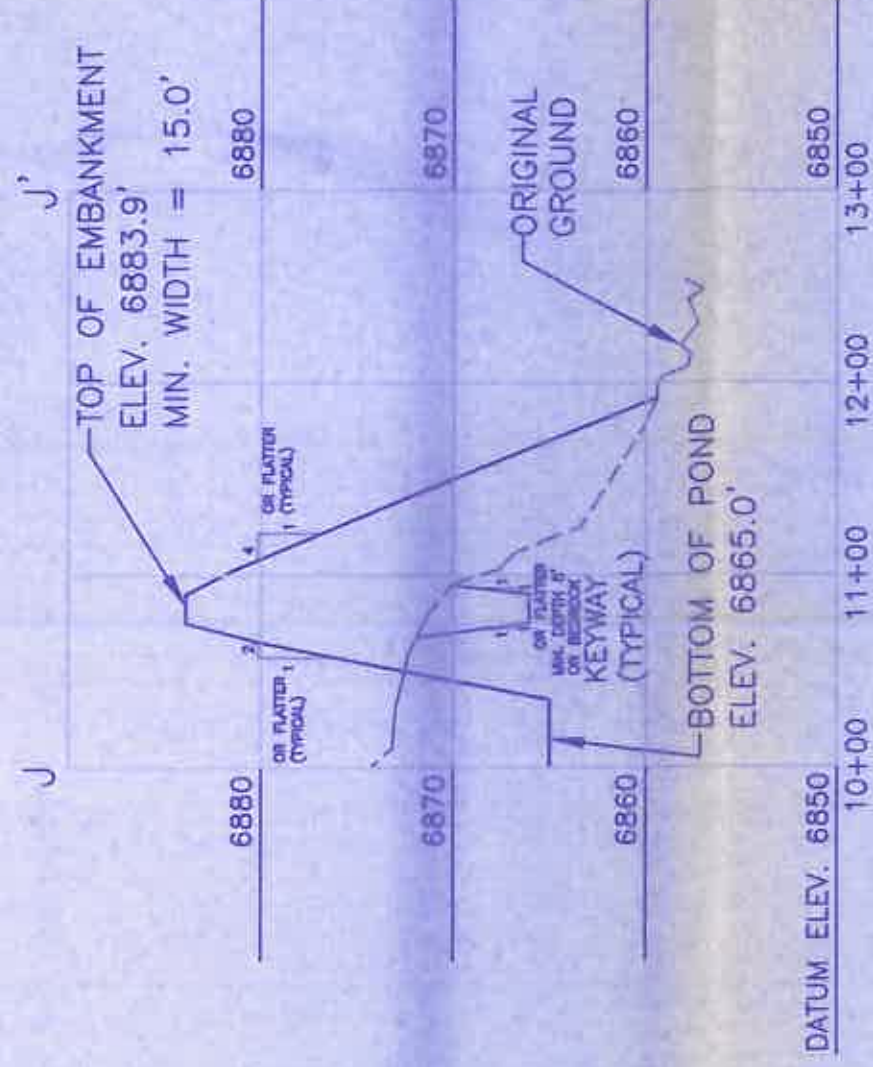
(TYPICAL)

17+00 18+00 19+00 6840

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



10+00 11+00 12+00 13+00



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

ENGINEER'S CERTIFICATION



ARIZONA P.E. 18782

Date: DEC 23 2004

see Drawing No. 85400, Sheet K-6 and Drawing No. 85405. Black Mesa PAP for Construction Specifications, Section 6, Attachment D, Sections 1-3 for description of situation.

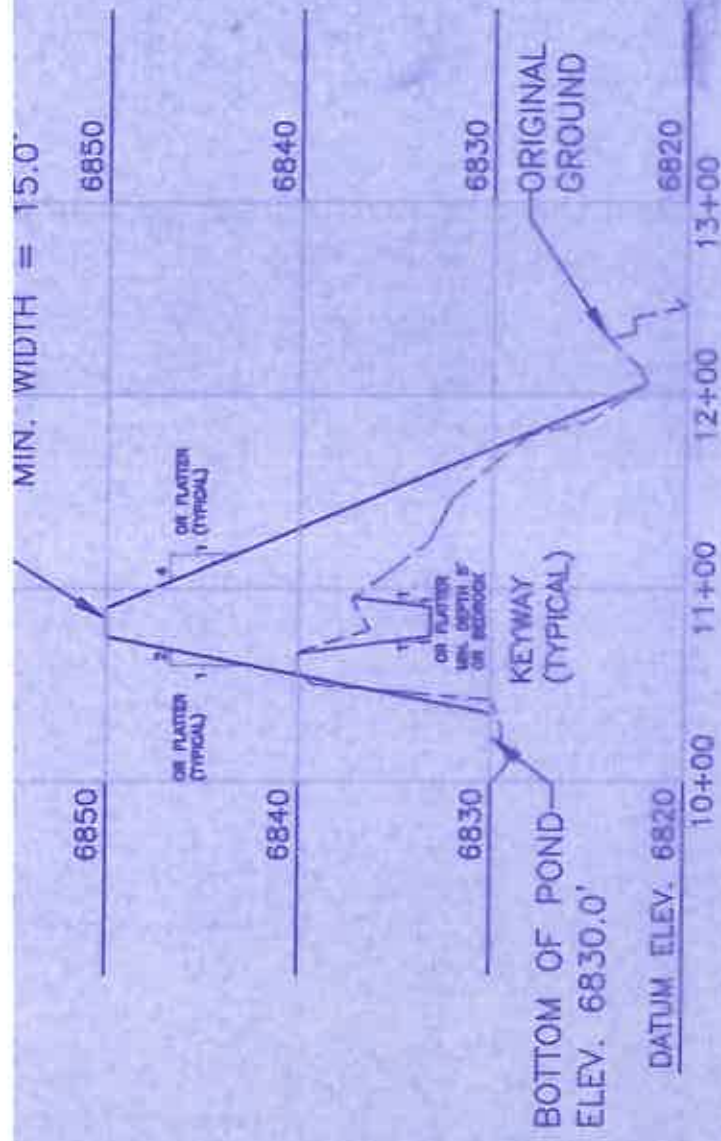
In accordance with approved topsail salvage plan, the distributed area above the high waterline shall be in the approved reclamation plan. The slopes, typical 3:1 slope or flatter and blend into natural

EXHIBIT # 1
PROPOSED N9-A, A1 & A2
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: 11-84
CONTOUR INTERVAL: 5 FT.	DWG FILE: POND N9-A, A1, A2.DWG



BOTTOM OF POND
ELEV. 6830.0'

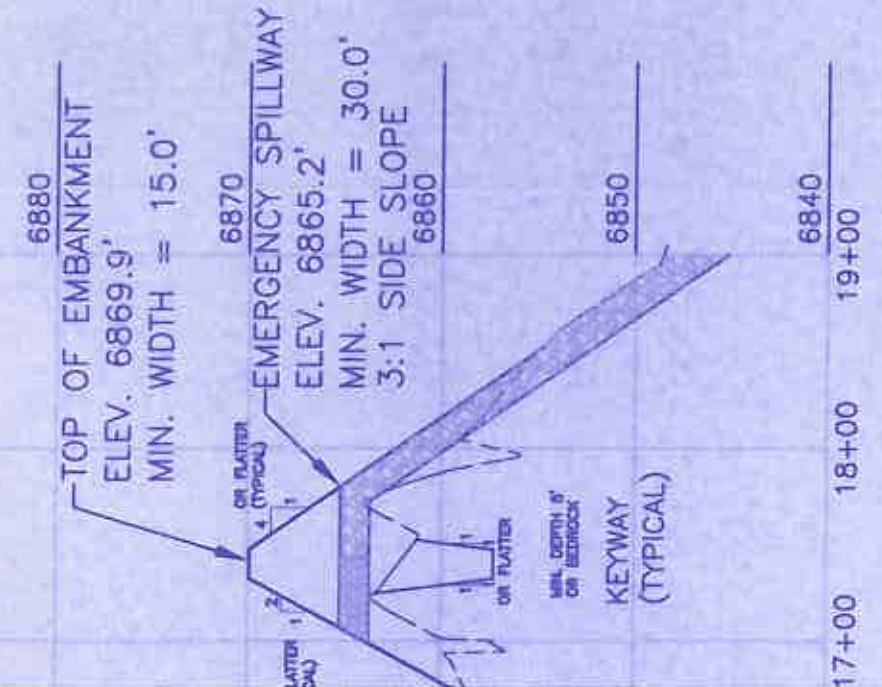
DATUM ELEV. 6820

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

MIN. WIDTH = 15.0'

6860
EMBANKMENT
9.9'
1' = 15.0'
6850
SPILLWAY
1.2'
= 30.0'
LOPE
6840
6830
6820
18+00

E'

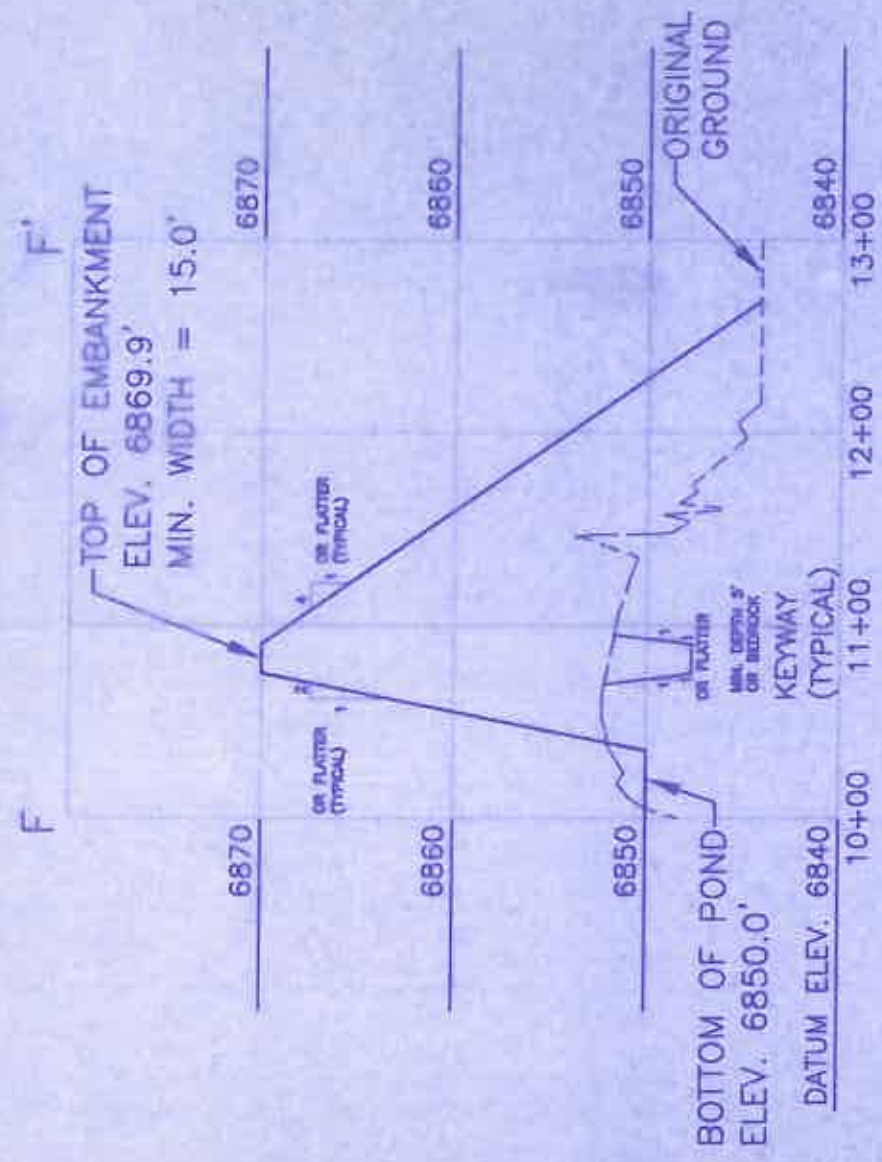


TOP OF EMBANKMENT
ELEV. 6869.9'
MIN. WIDTH = 15.0'

EMERGENCY SPILLWAY
ELEV. 6865.2'
MIN. WIDTH = 30.0'
3:1 SIDE SLOPE

6880
6870
6860
6850
6840
17+00 18+00 19+00

F'



TOP OF EMBANKMENT
ELEV. 6869.9'
MIN. WIDTH = 15.0'

BOTTOM OF POND
ELEV. 6850.0'

DATUM ELEV. 6840

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

H'

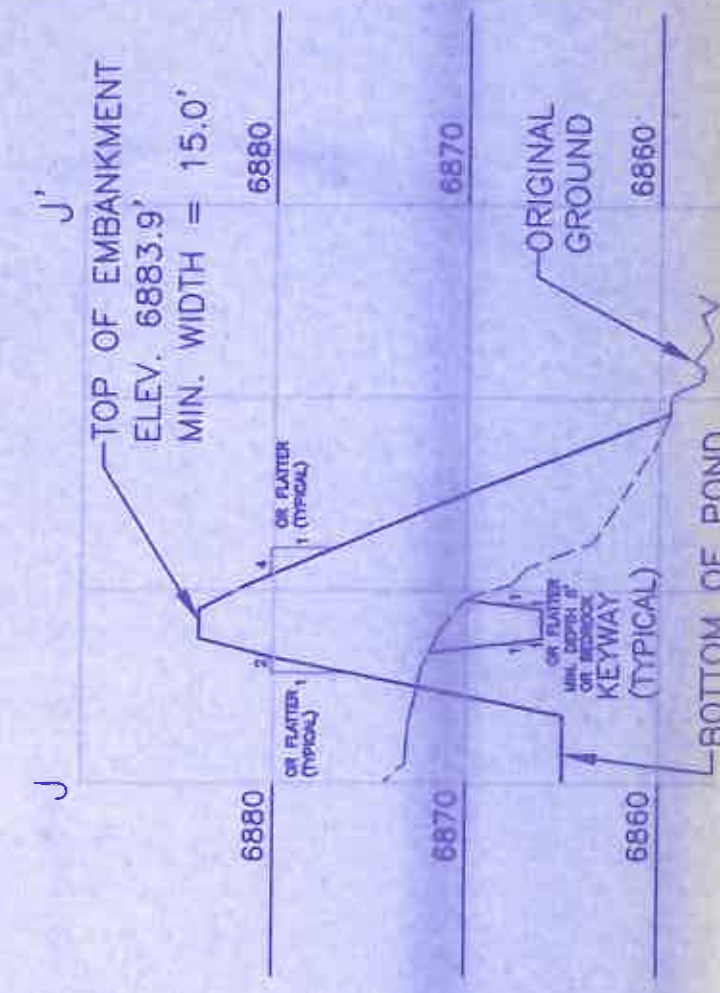


TOP OF EMBANKMENT
ELEV. 6883.9'
MIN. WIDTH = 15.0'

EMERGENCY SPILLWAY
ELEV. 6878.9'
MIN. WIDTH = 25.0'
3:1 SIDE SLOPE

6900
6890
6880

J'



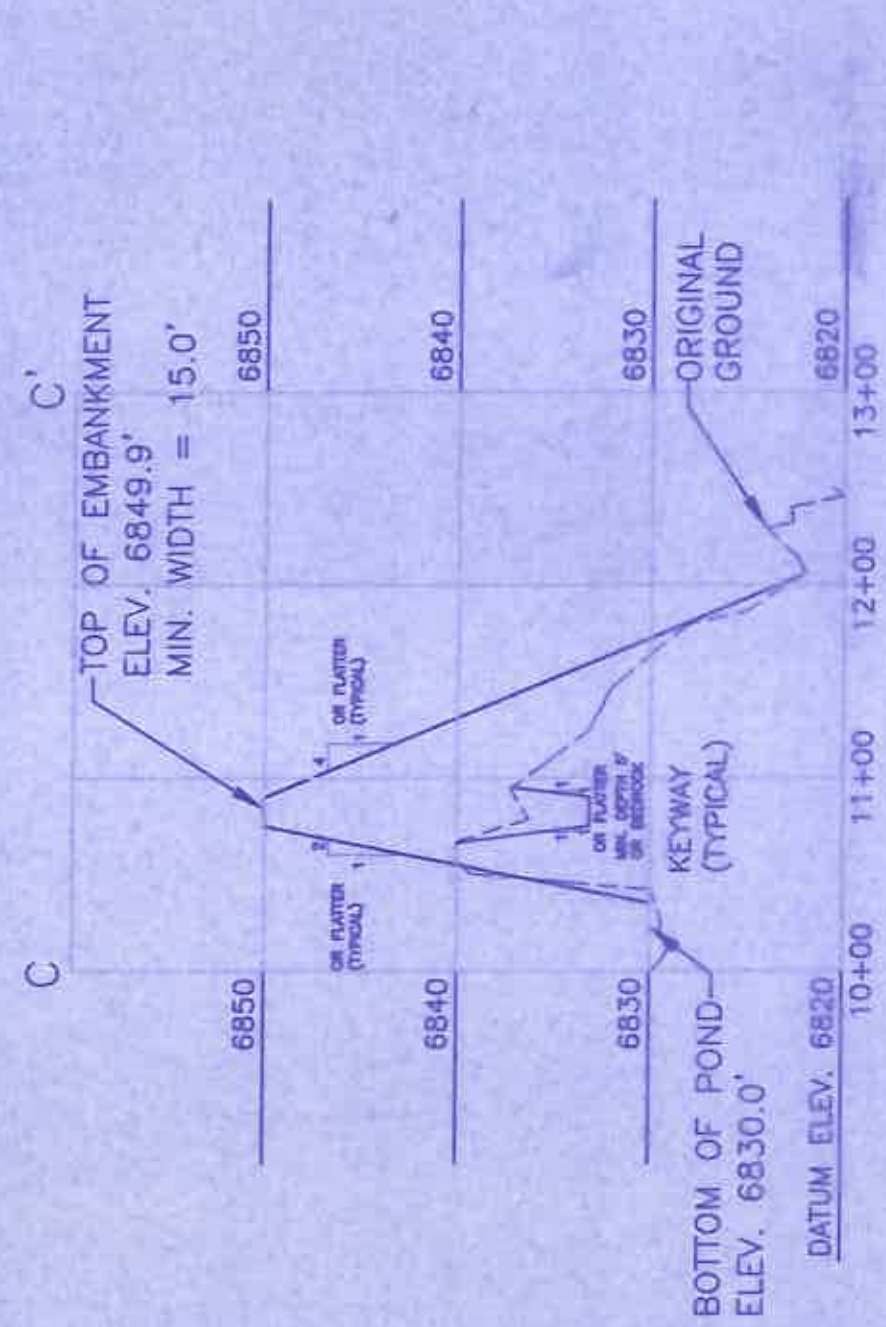
TOP OF EMBANKMENT
ELEV. 6883.9'
MIN. WIDTH = 15.0'

ORIGINAL GROUND

BOTTOM OF POND

N9-A2 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6865.0	0.0	0.80	0.00	BOTTOM OF POND
6870.0	5.0	1.22	5.04	INCISED ELEV.
6875.0	10.0	1.68	12.27	
6878.9	13.9	2.11	19.65	EMERGENCY SPILLWAY
6880.0	15.0	2.23	22.04	
6883.9	18.9	2.84	31.94	TOP OF EMBANKMENT



BANKMENT
9.9'
1 = 15.0'

SPILLWAY
12'
= 30.0'
LOPE

6860

6850

6840

6830

6820

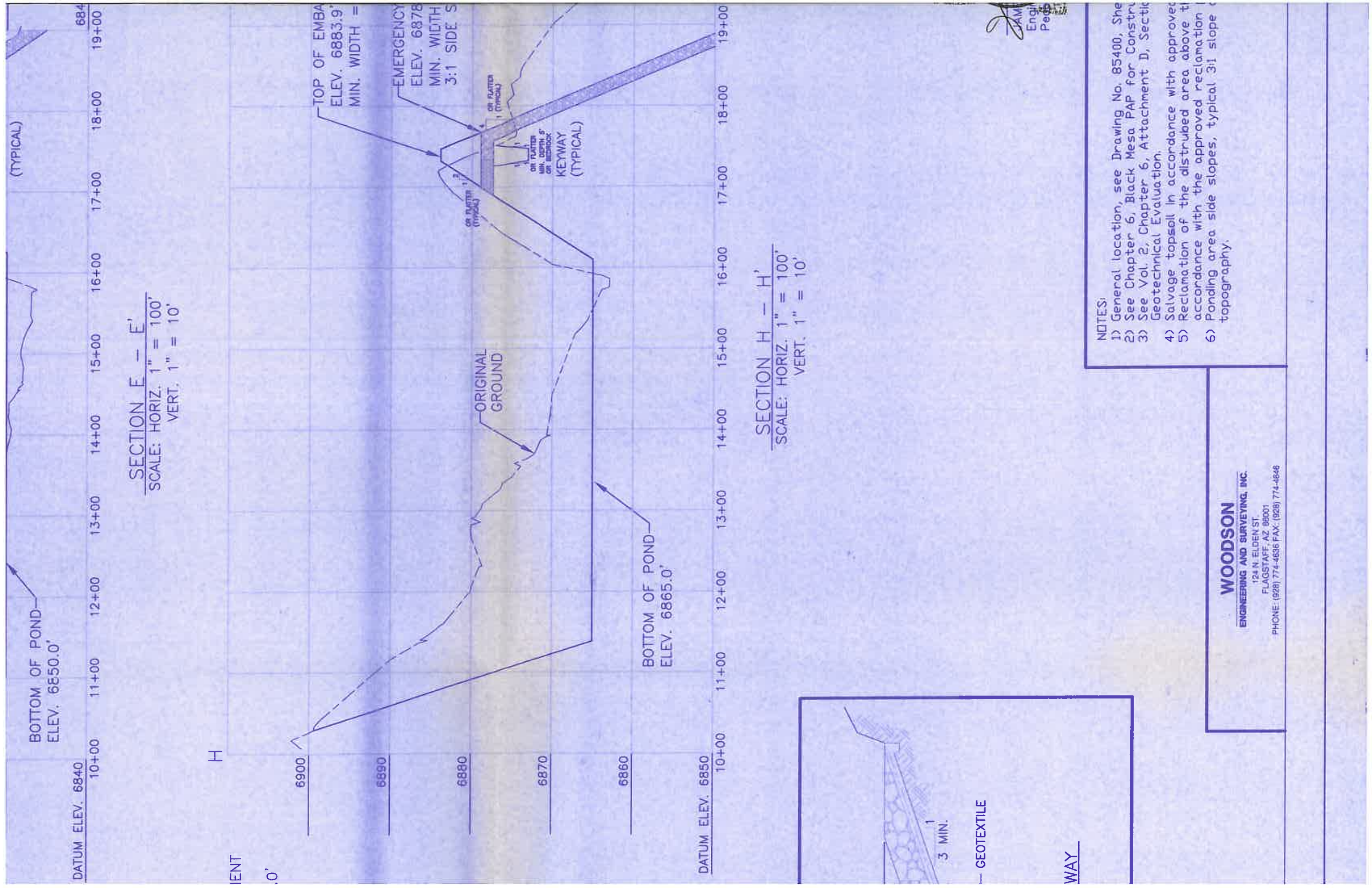
18+00

6880

TOP OF EMBANKMENT
ELEV. 6869.9'
MIN. WIDTH = 15.0'

6870

6860



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

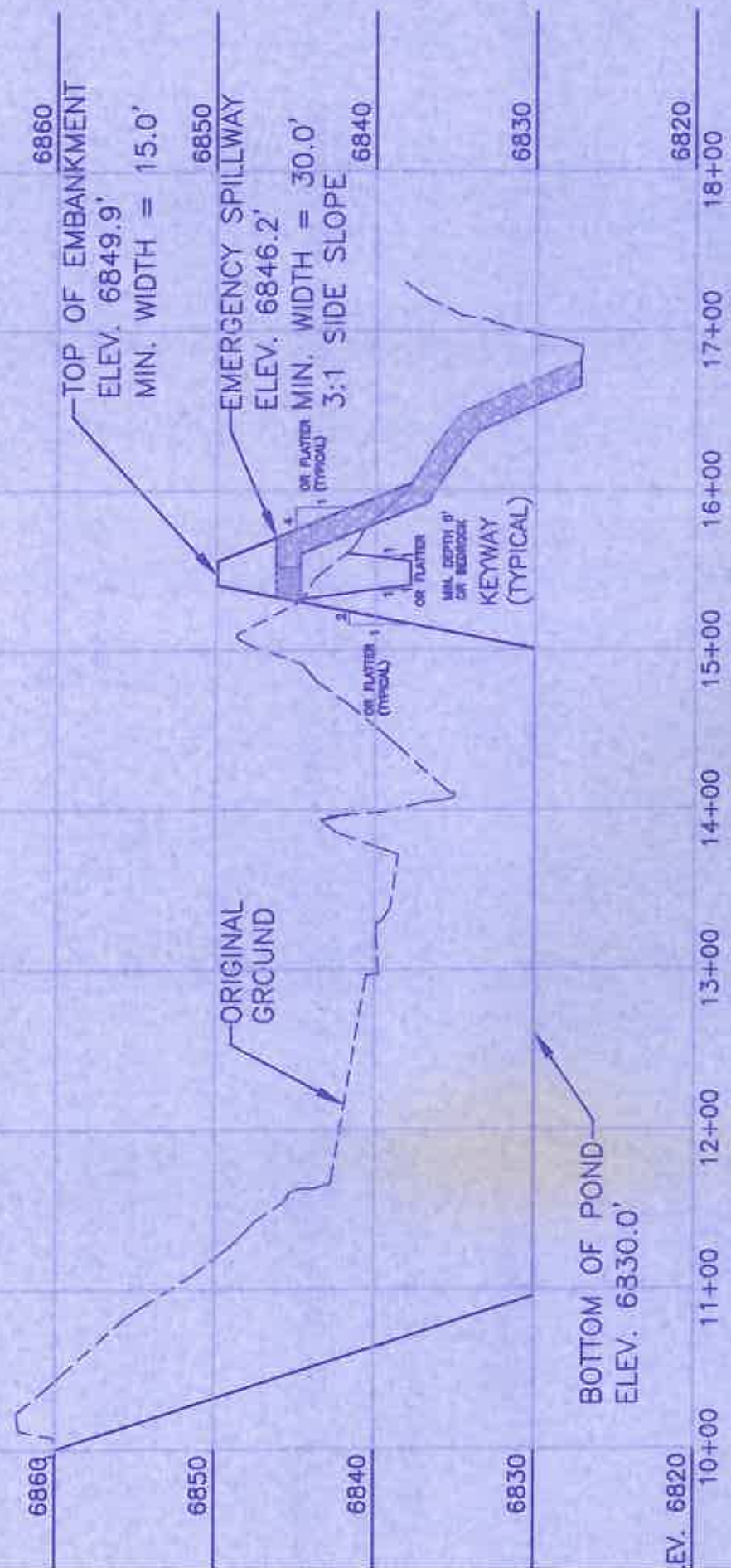
SECTION H - H'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'

- NOTES:
- 1) General location, see Drawing No. 85400, She
 - 2) See Chapter 6, Black Mesa PAP for Constr
 - 3) See Vol. 2, Chapter 6, Attachment D, Sectio
 Geotechnical Evaluation.
 - 4) Salvage topsoil in accordance with approved
 - 5) Reclamation of the disturbed area above t
 accordance with the approved reclamation
 - 6) Ponding area side slopes, typical 3:1 slope
 topography.

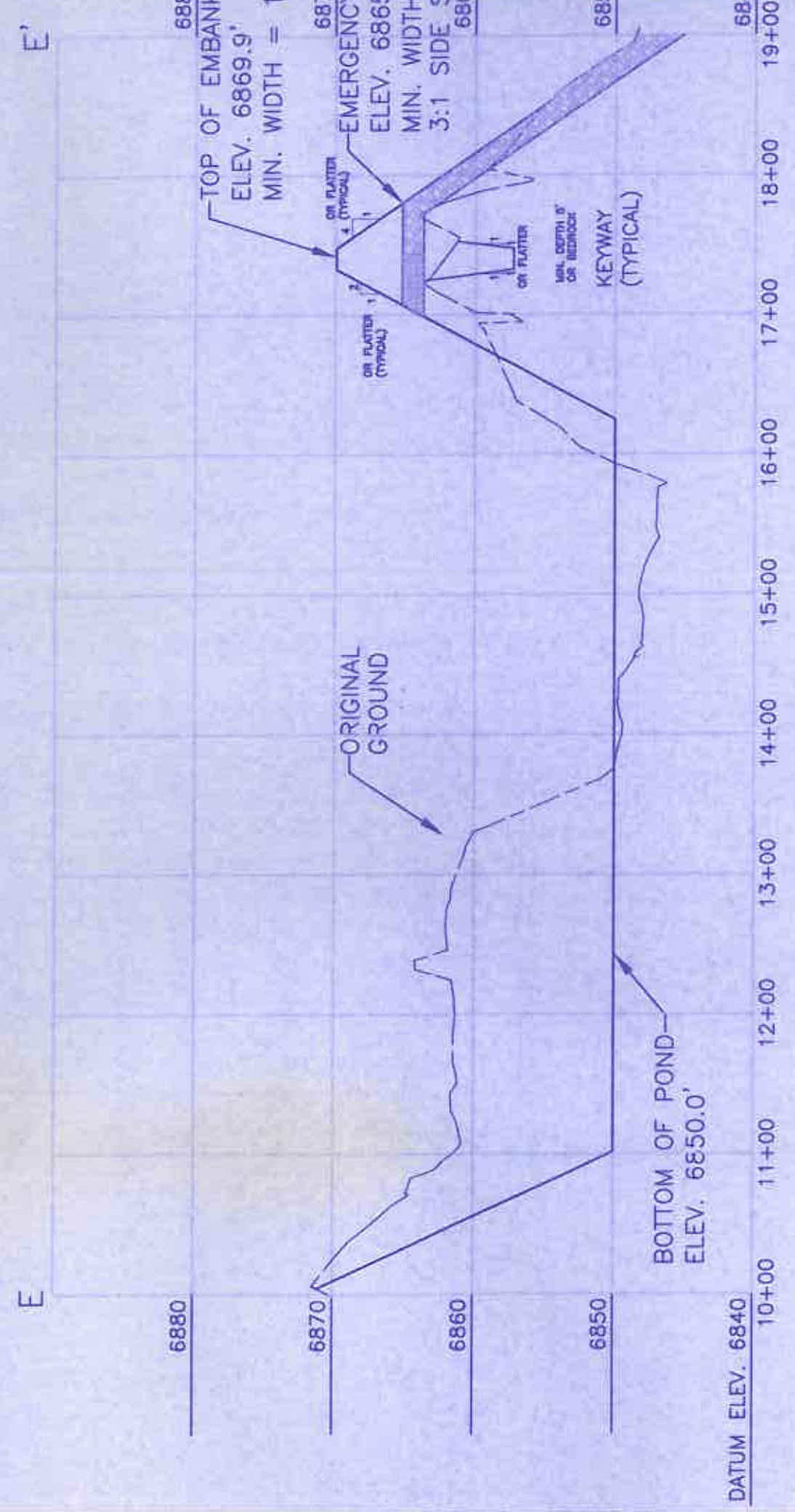
WOODSON
 ENGINEERING AND SURVEYING, INC.
 124 N. ELDEN ST.
 FLAGSTAFF, AZ 86001
 PHONE: (928) 774-4636 FAX: (928) 774-4846

— GEOTEXTILE

— KEYWAY



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



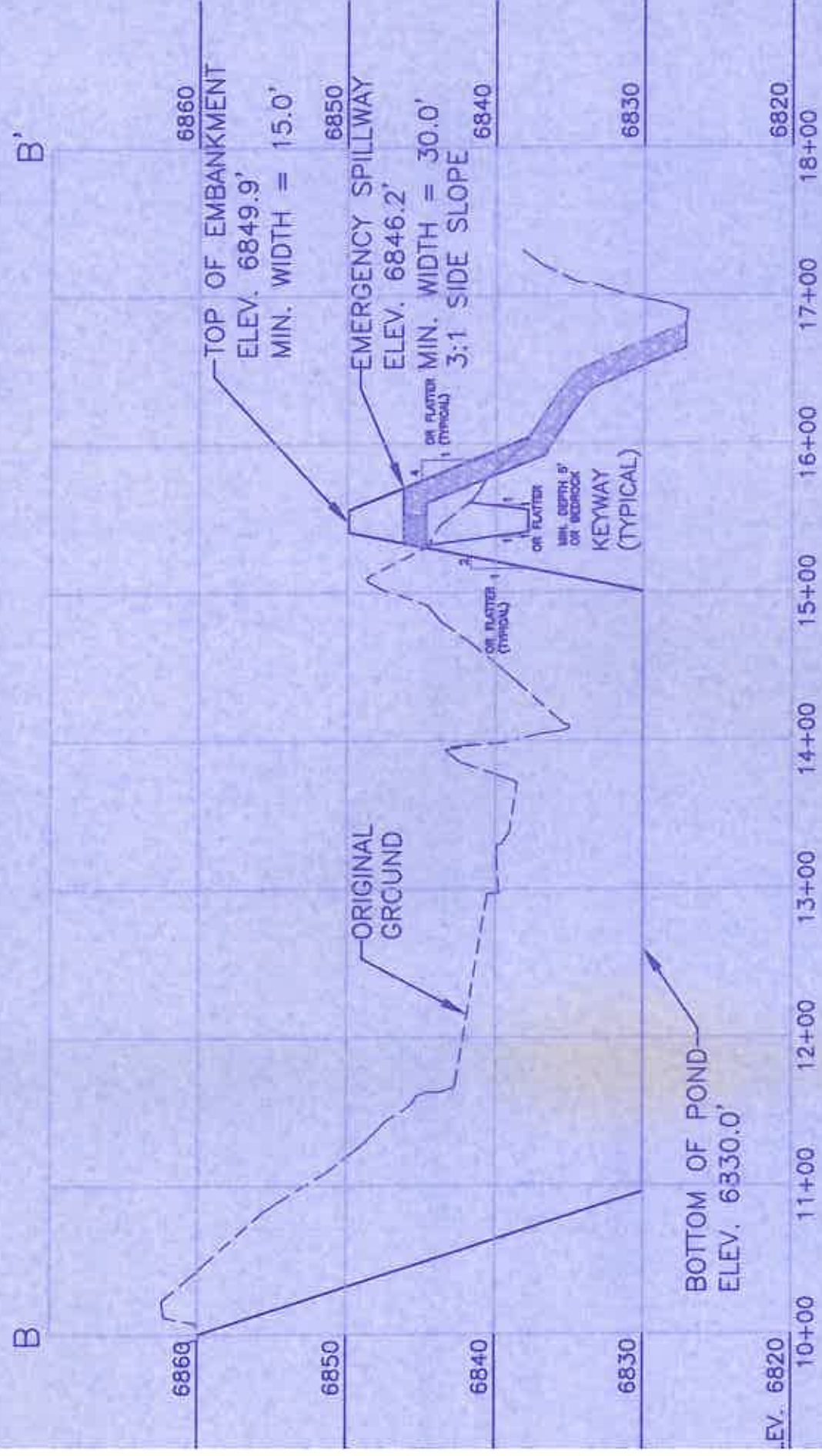
SECTION E - E'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'



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

N9-A1 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6850.0	0.0	0.59	0.00	BOTTOM OF POND
6855.0	5.0	1.03	4.05	INCISED ELEV.
6860.0	10.0	1.52	10.42	
6865.0	15.0	2.03	19.28	
6865.2	15.2	2.05	19.69	EMERGENCY SPILLWAY
6869.9	19.9	2.57	30.78	TOP OF EMBANKMENT



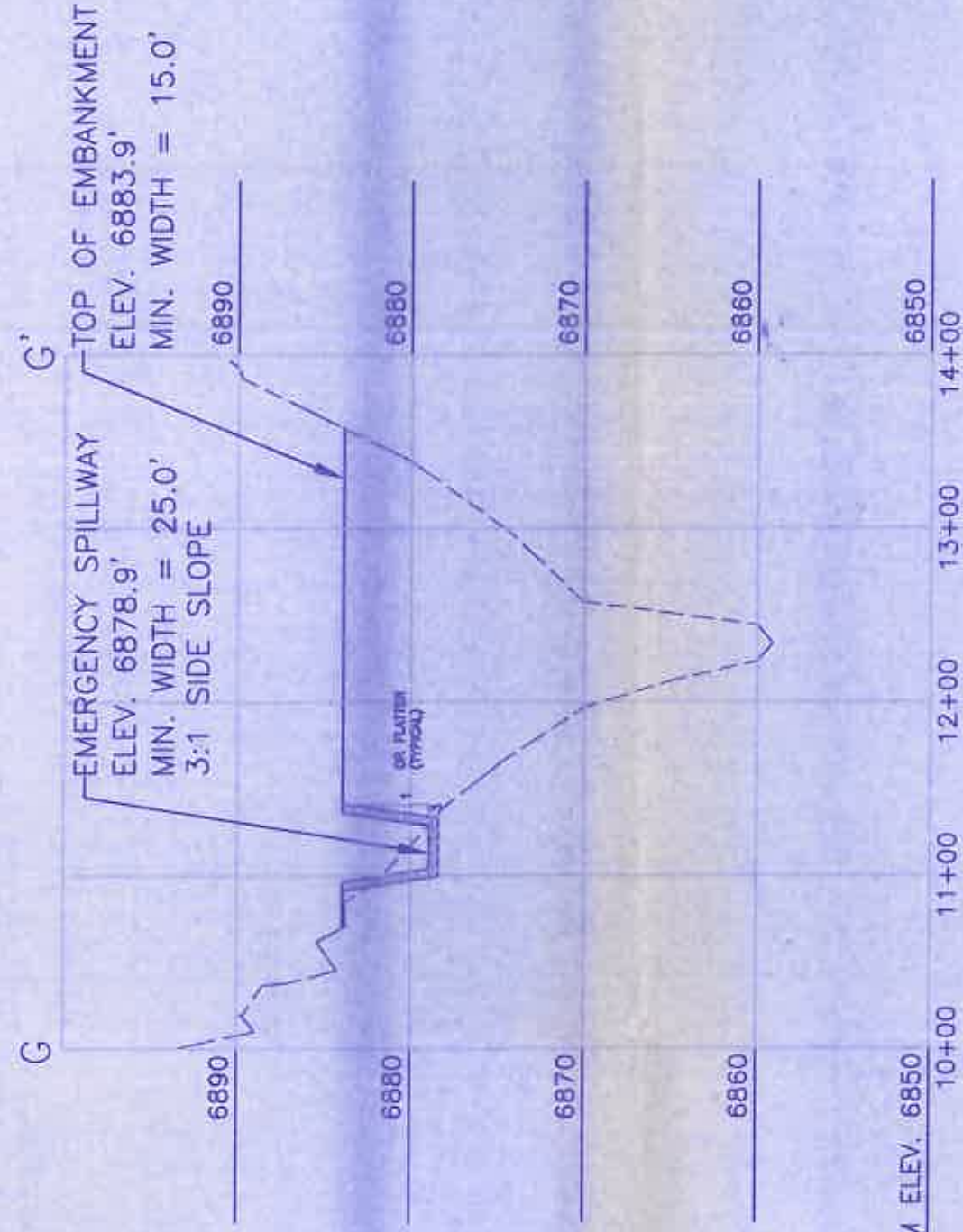
SECTION B - B'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'



DATUM ELEV. 6840

10+00 11+00 12+00 13+00 6840

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



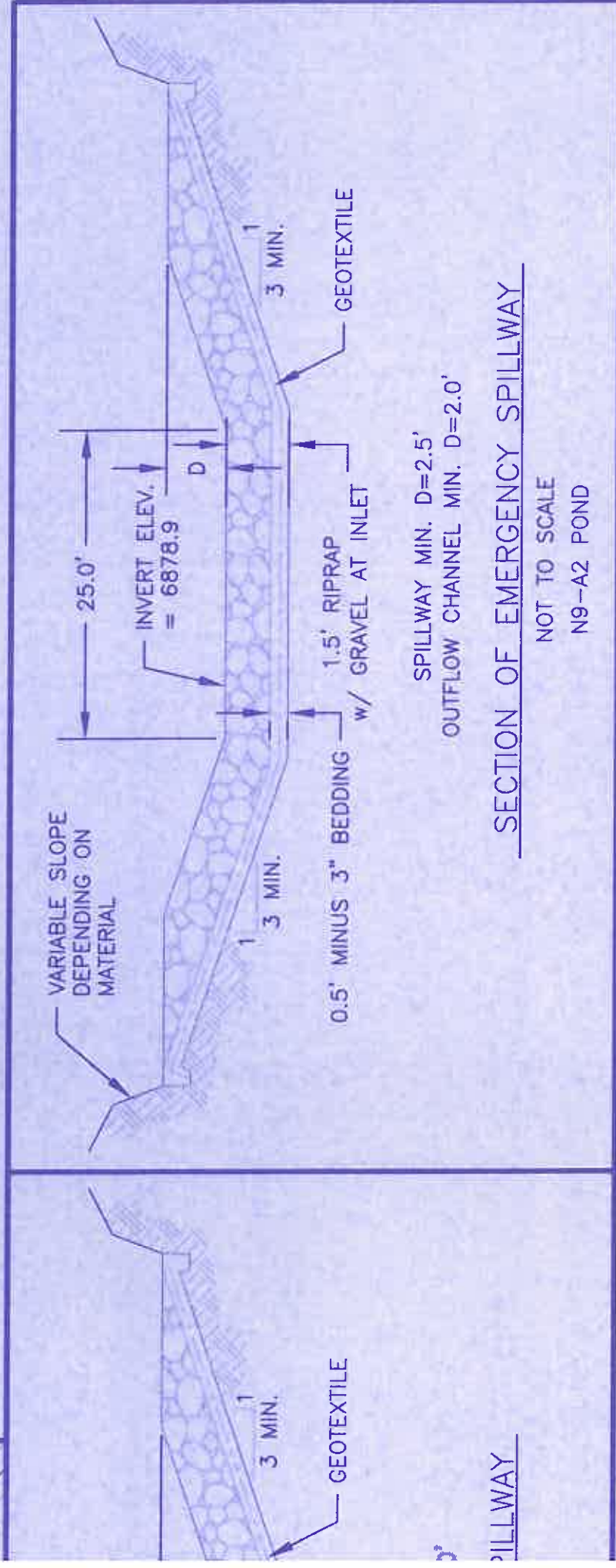
SECTION G - G'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

DATUM ELEV. 6850

10+00 11+00 12+00 13+00 14+00 6850

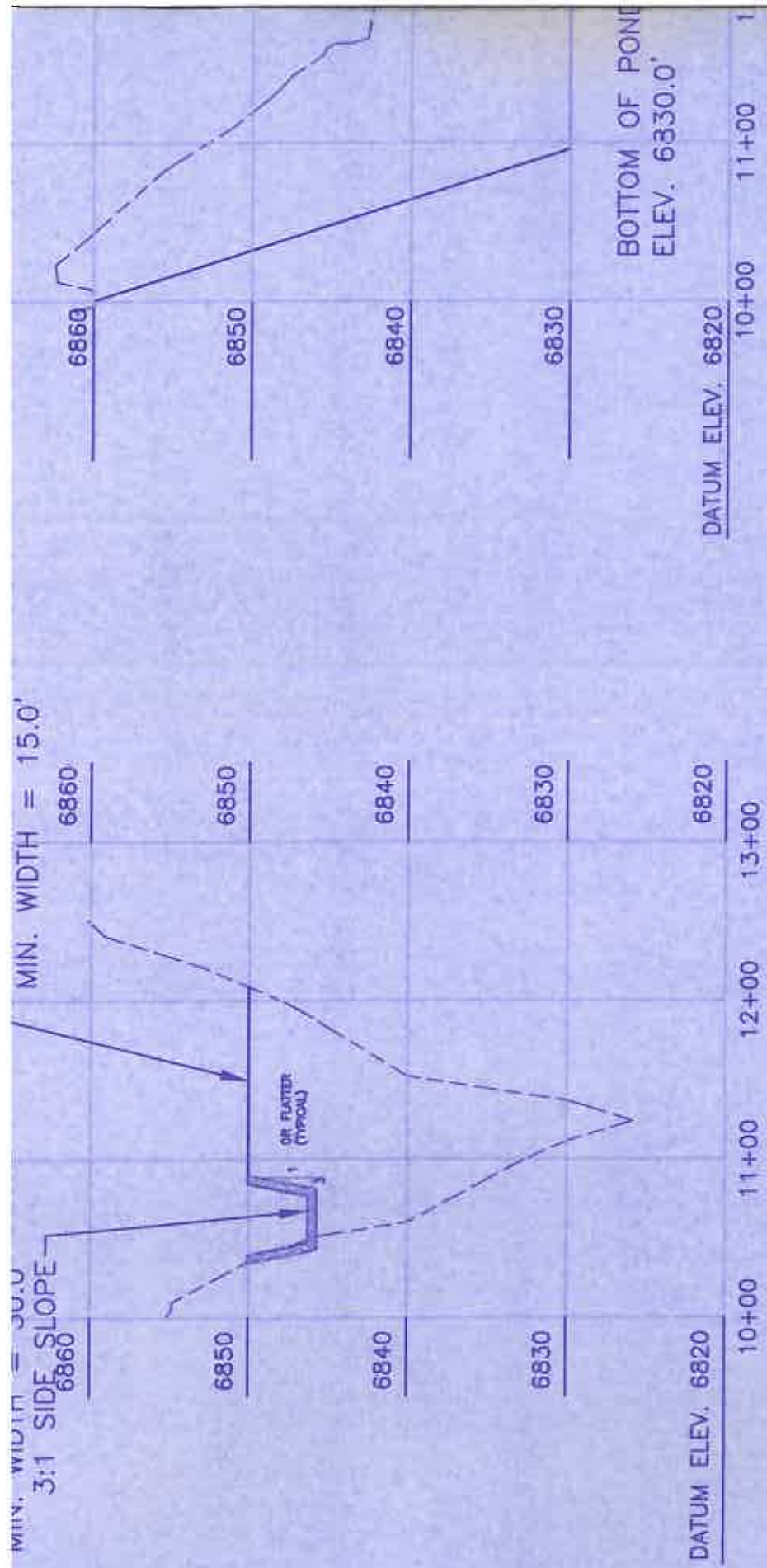
DATUM ELEV. 6850

10+00 11+

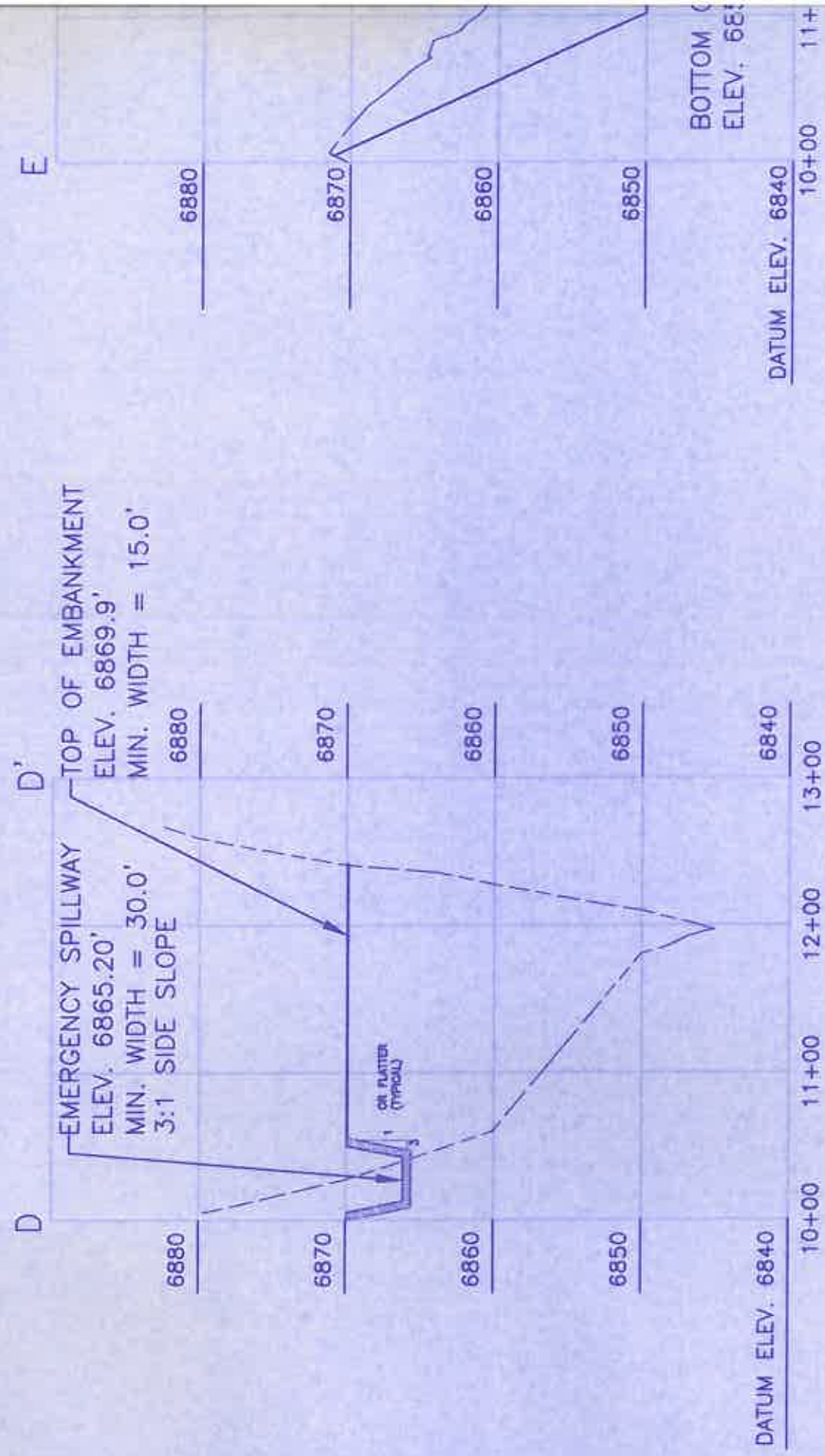


SPILLWAY MIN. D=2.5'
OUTFLOW CHANNEL MIN. D=2.0'

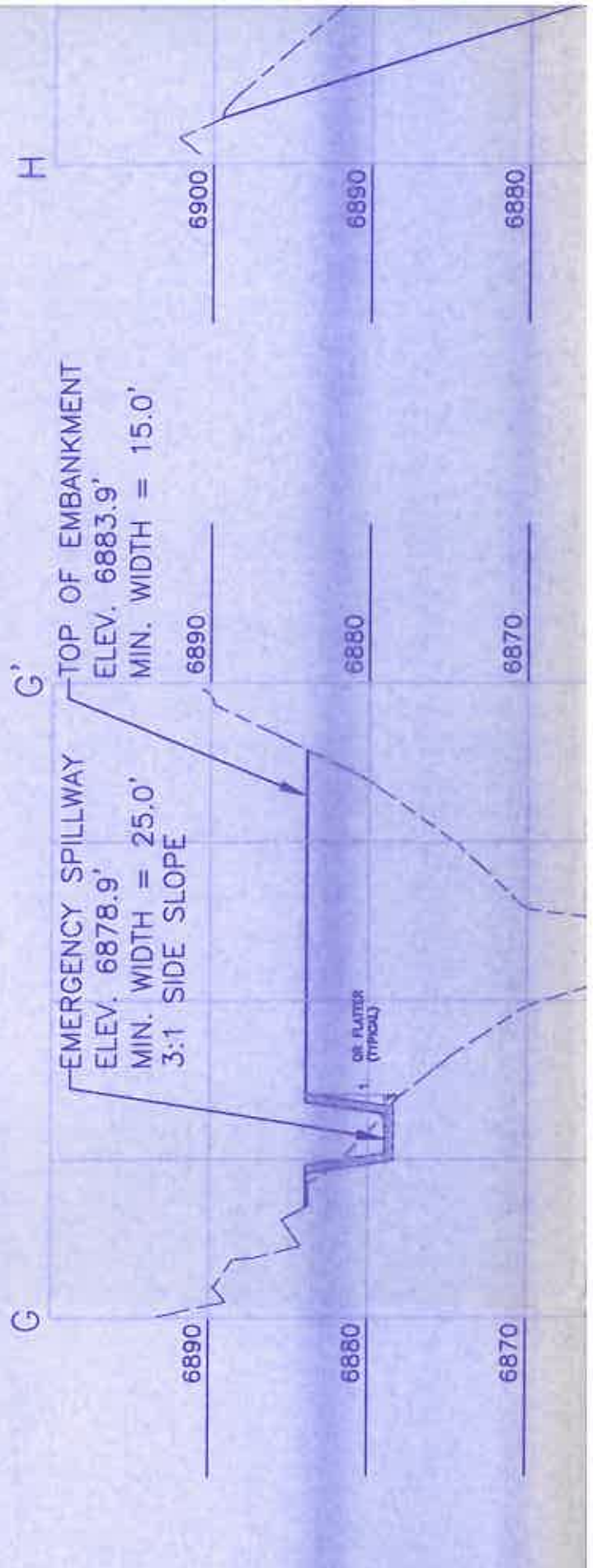
SECTION OF EMERGENCY SPILLWAY
NOT TO SCALE
N9-A2 POND



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



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

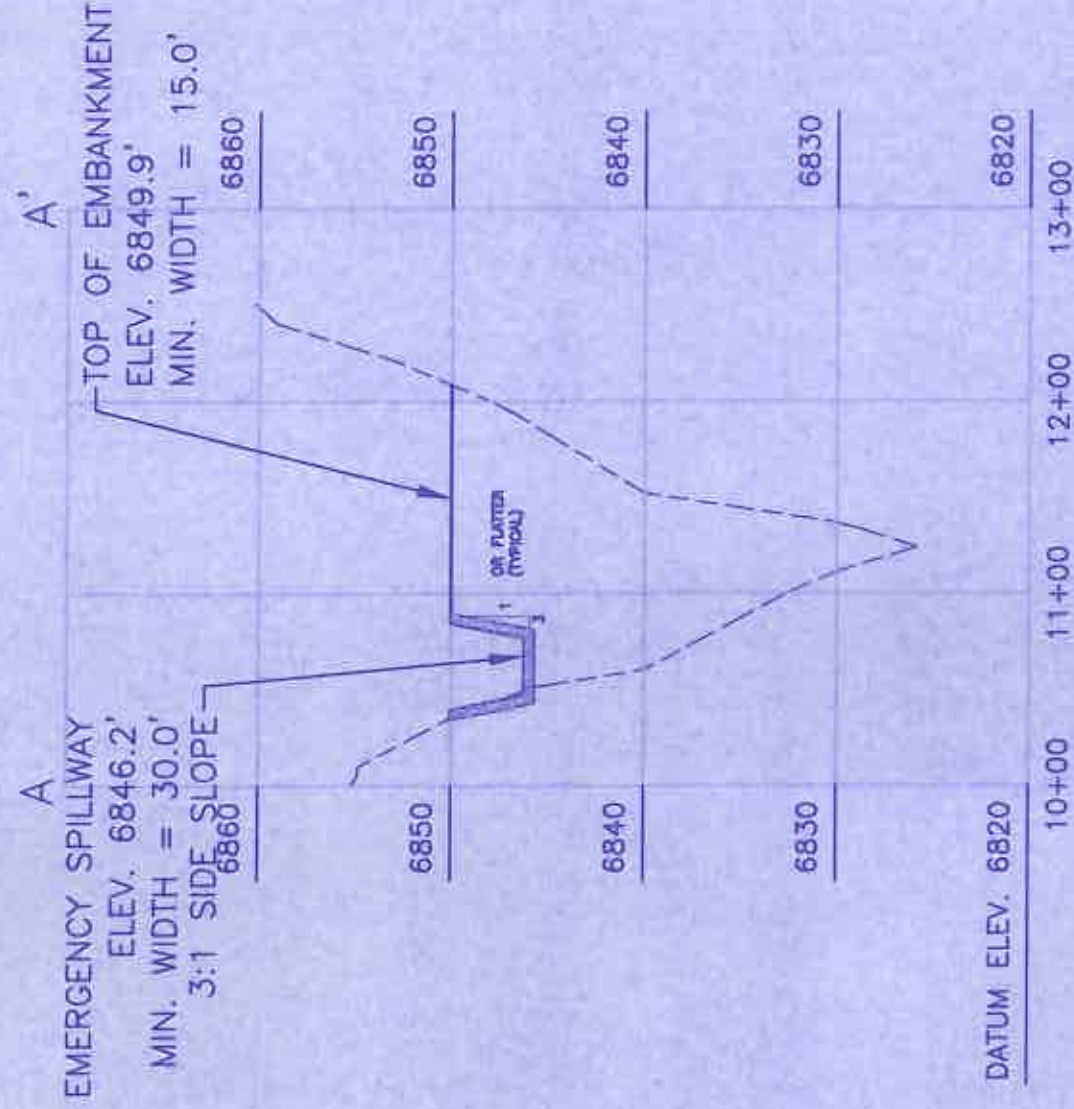


SECTION G - G'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

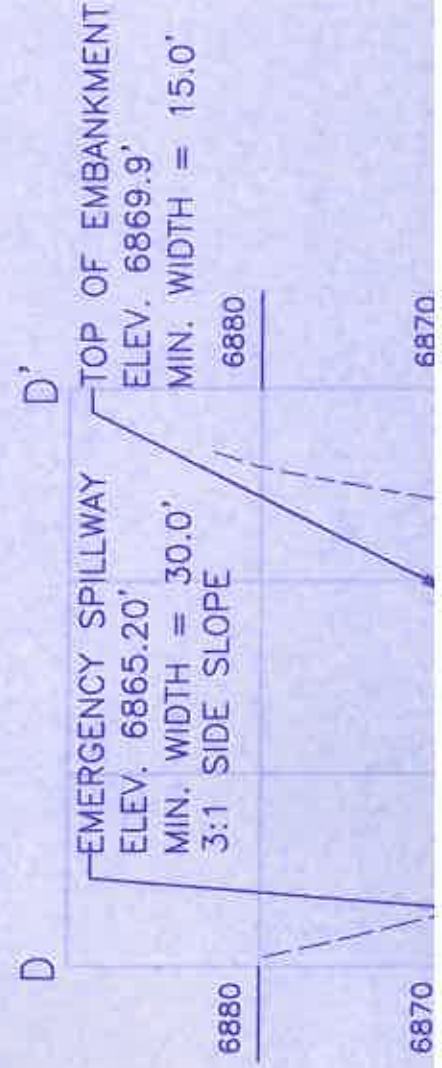
N9-A POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6830.0	0.0	0.03	0.00	BOTTOM OF POND
6835.0	5.0	0.10	0.31	INCISED ELEV.
6840.0	10.0	2.02	5.62	
6845.0	15.0	2.43	16.76	
6846.2	16.2	2.54	19.75	EMERGENCY SPILLWAY
6849.9	19.9	2.88	30.05	TOP OF EMBANKMENT

E						
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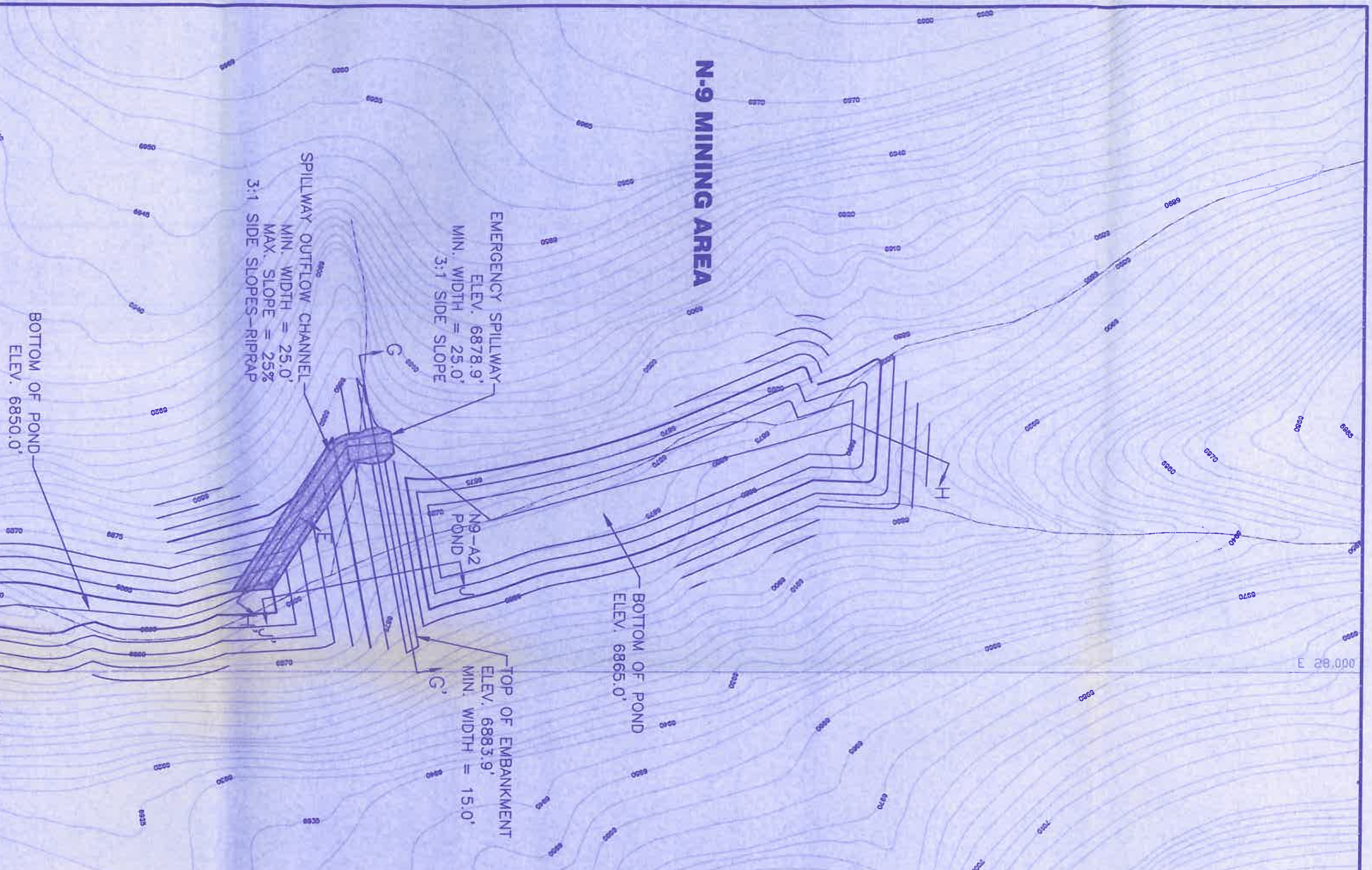


SECTION A - A'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'



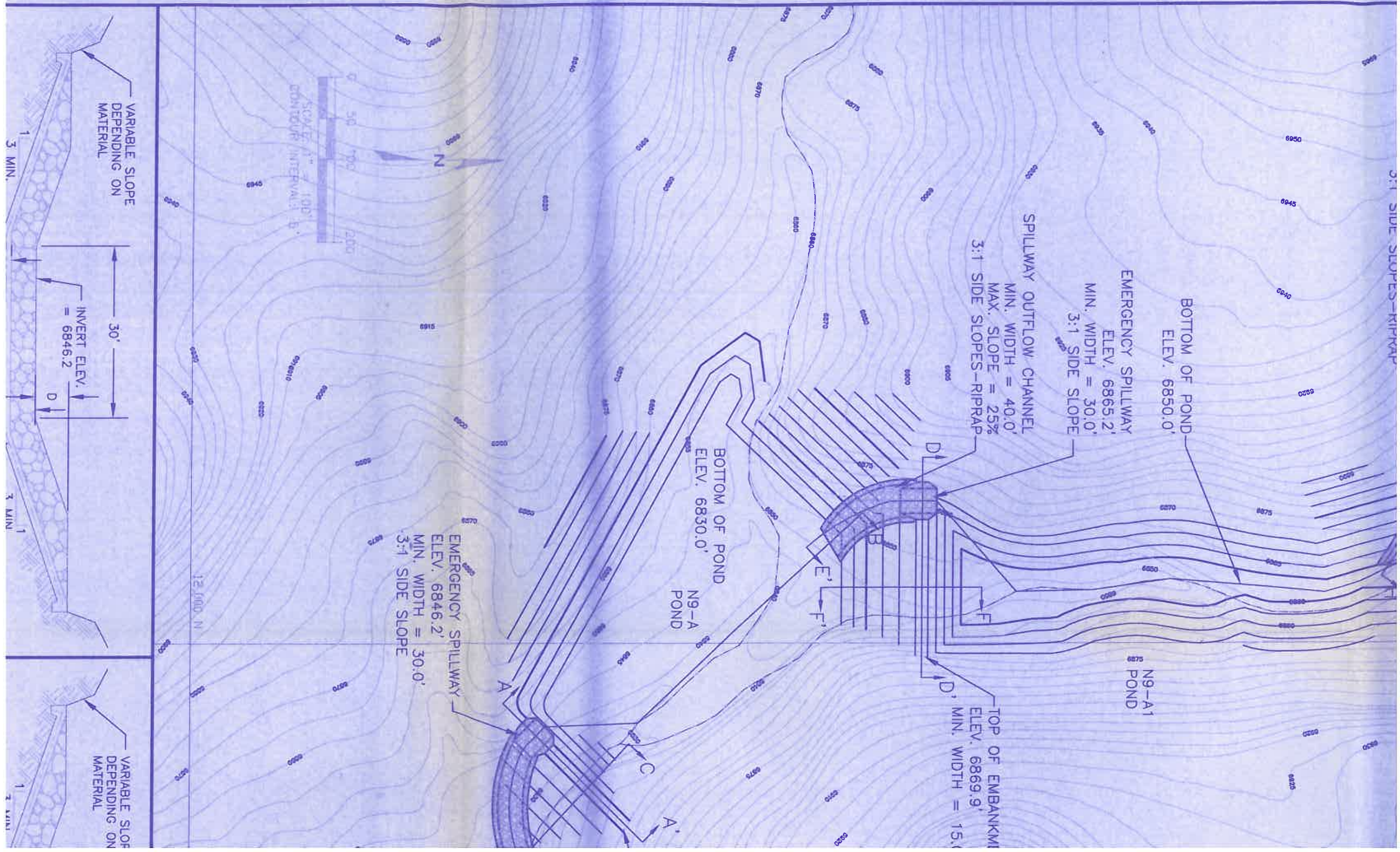
E						
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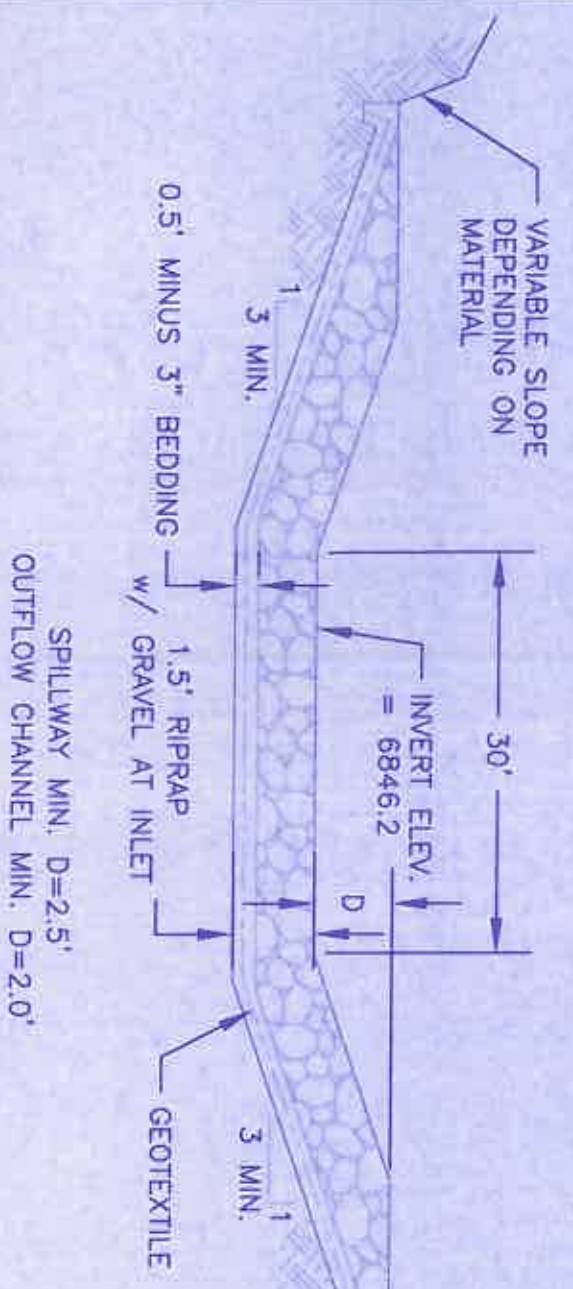
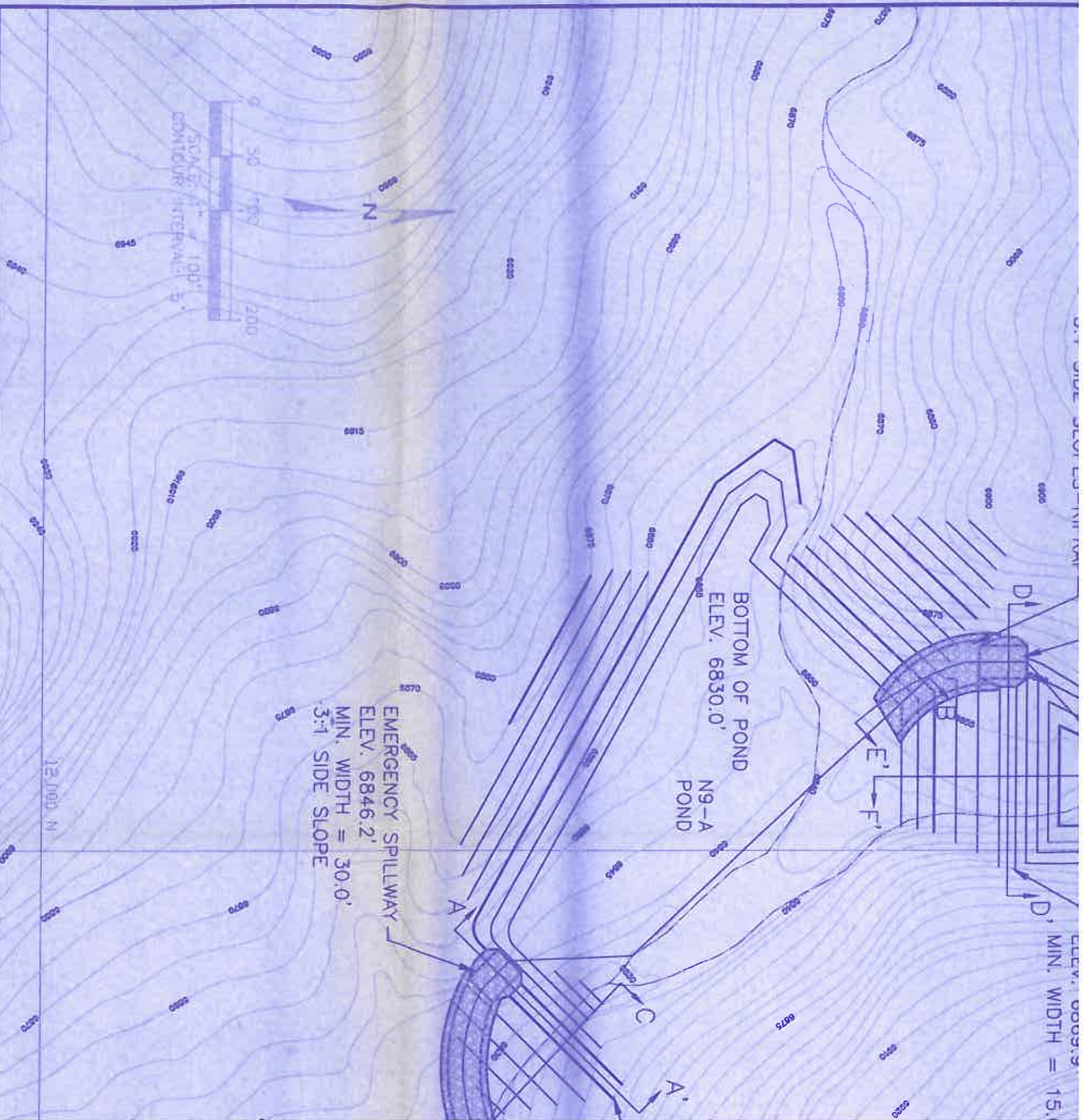
N-9 MINING AREA



000.82 3

NO. A 1

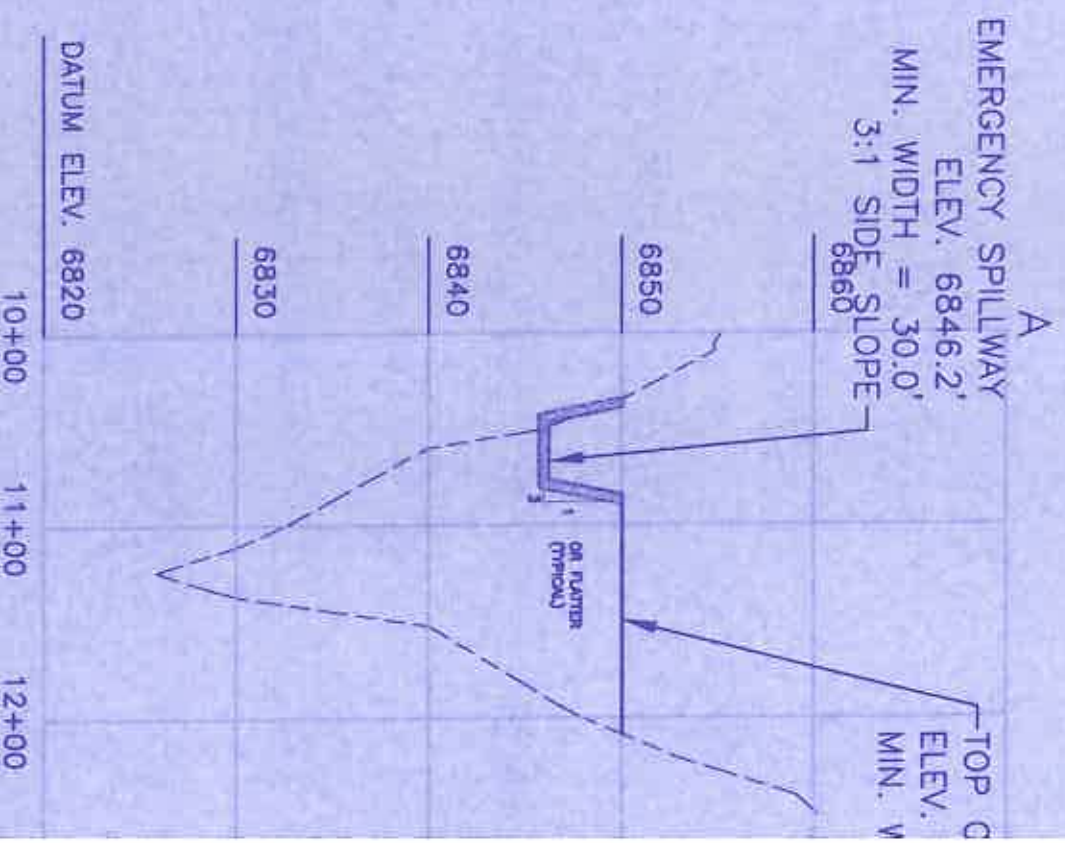


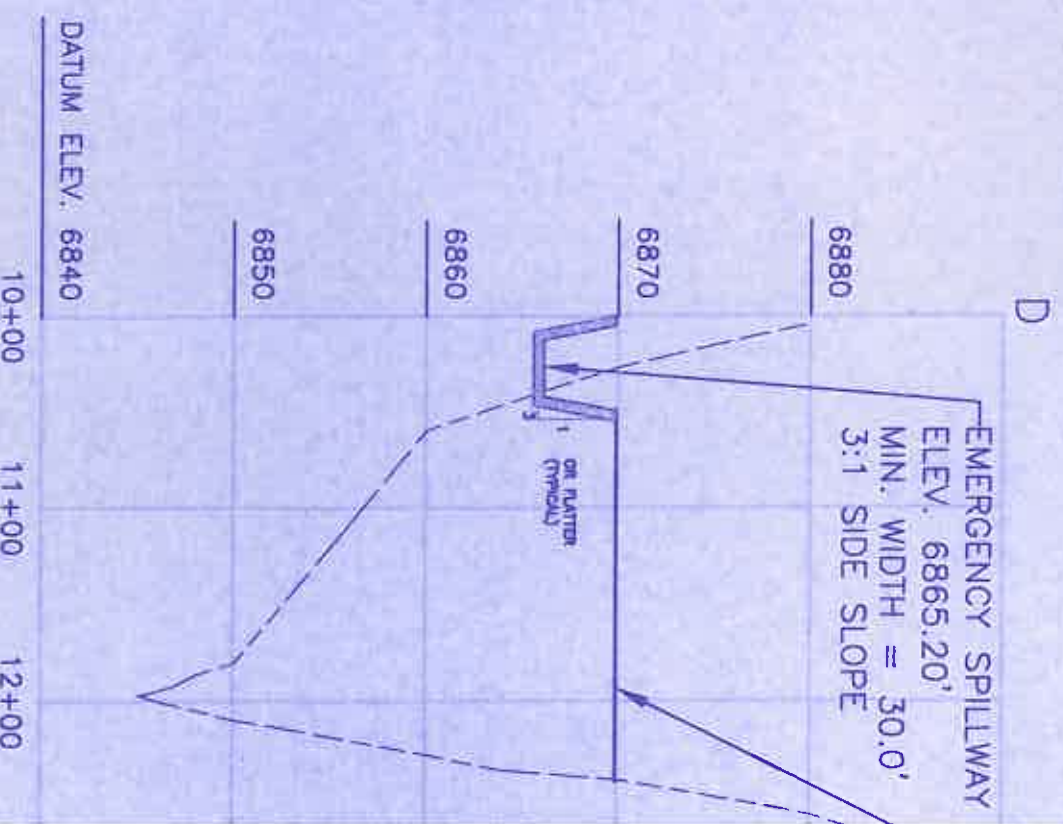
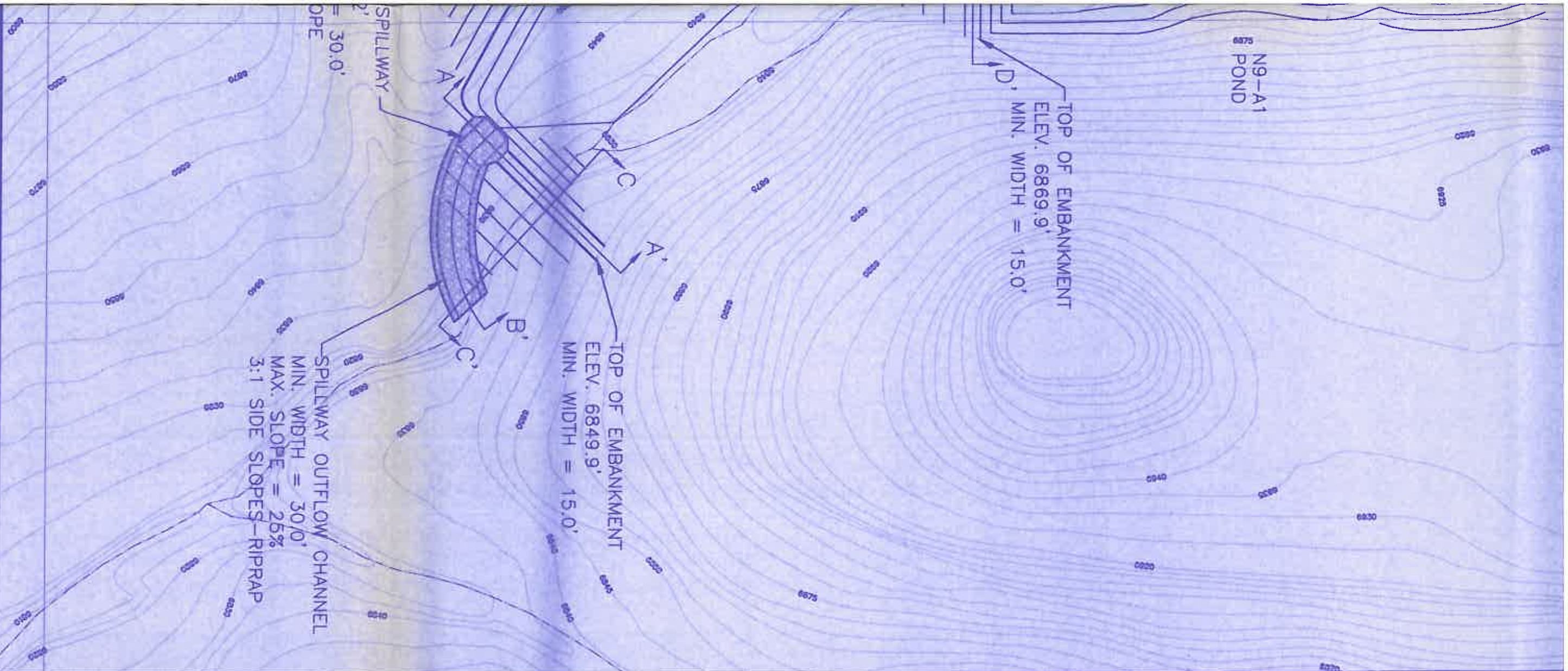


SECTION OF EMERGENCY SPILLWAY
 NOT TO SCALE
 N9-A POND

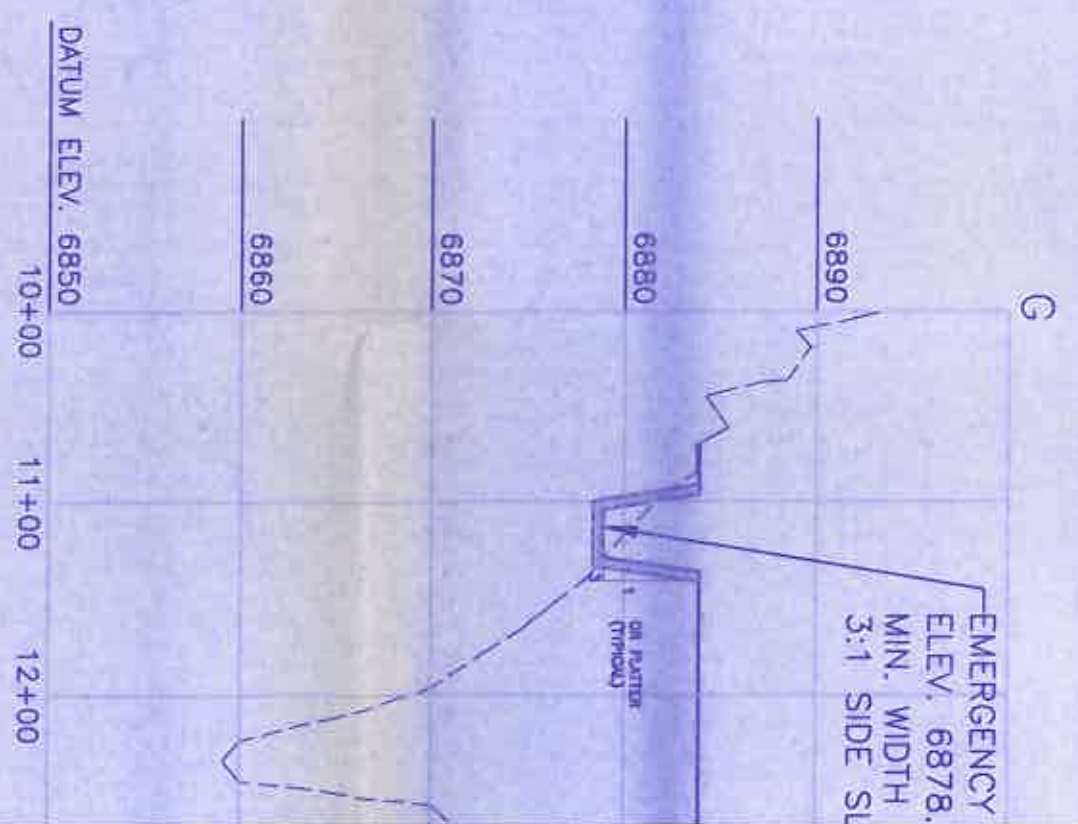
N9-A POND STAGE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TO CAP (ac)
6830.0	0.0	0.03	0.
6835.0	5.0	0.10	0.
6840.0	10.0	2.02	5.
6845.0	15.0	2.43	16
6846.2	16.2	2.54	19
6849.9	19.9	2.88	30

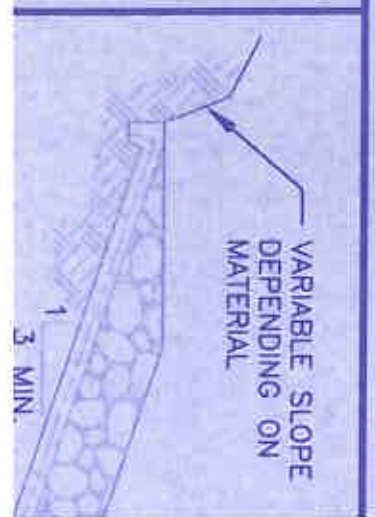


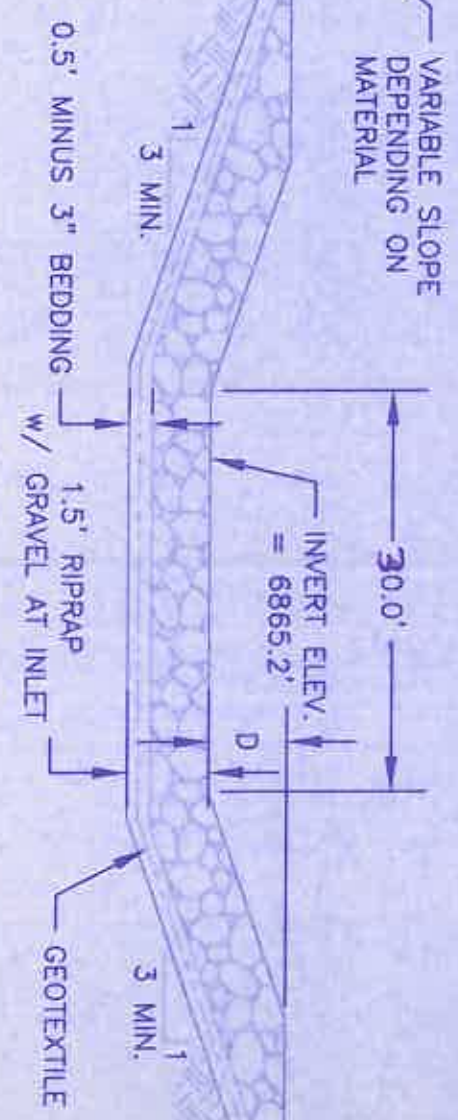
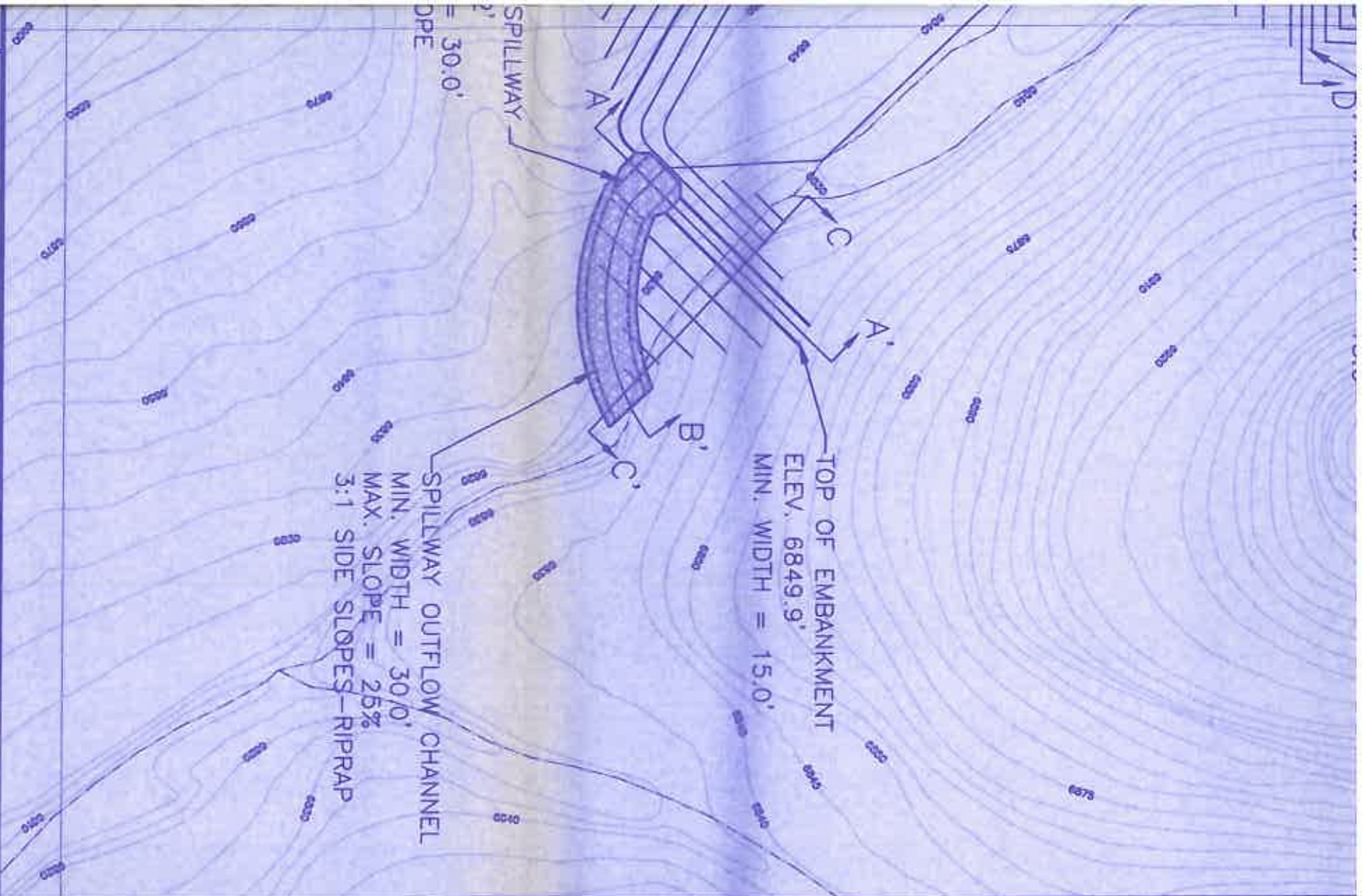


SECTION D - D'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'

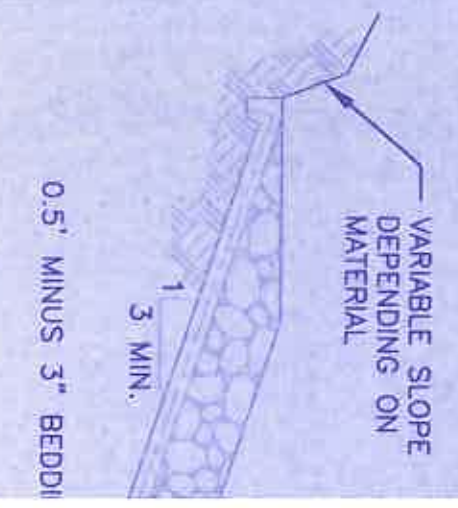
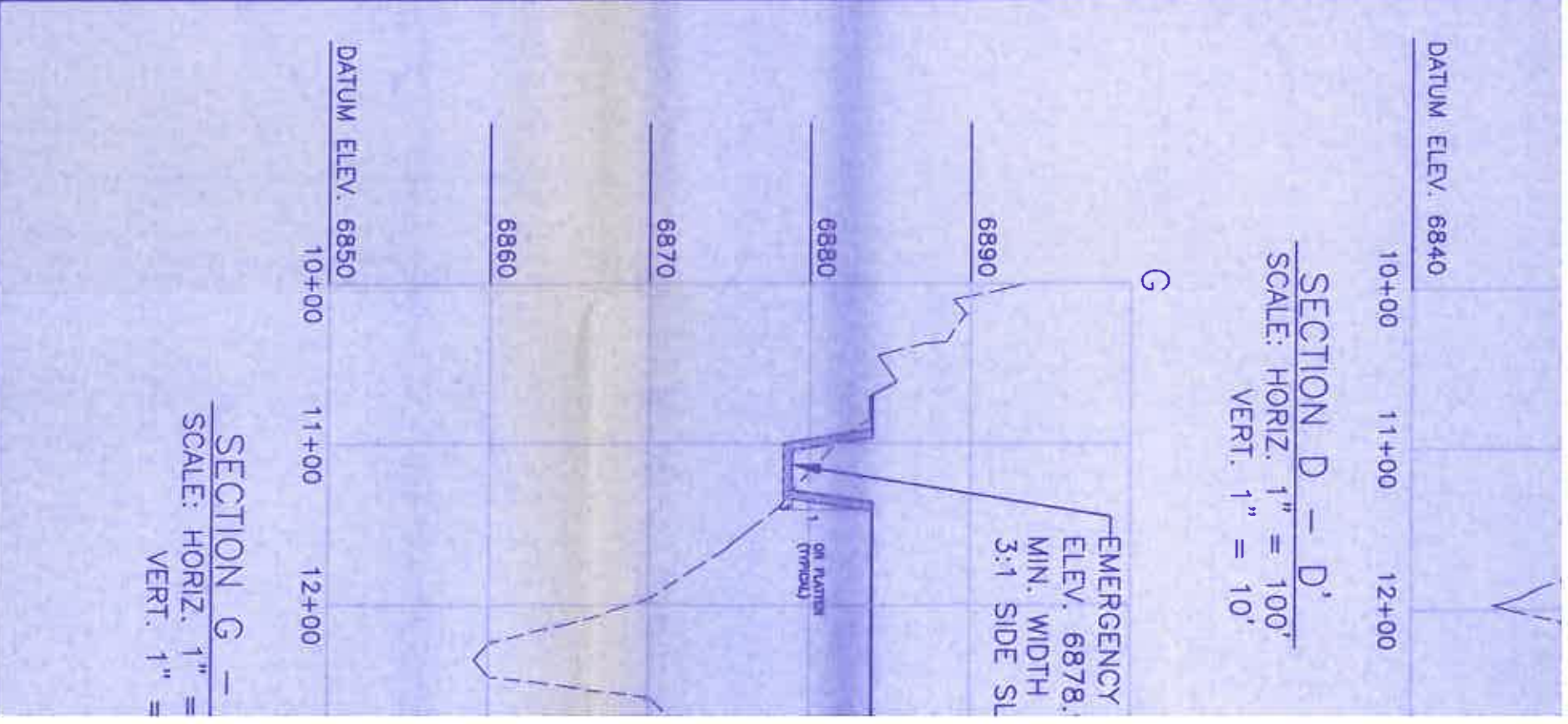


SECTION G - G'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'





SECTION D - D
NOT TO SCALE
N9-A1 POND



SEC