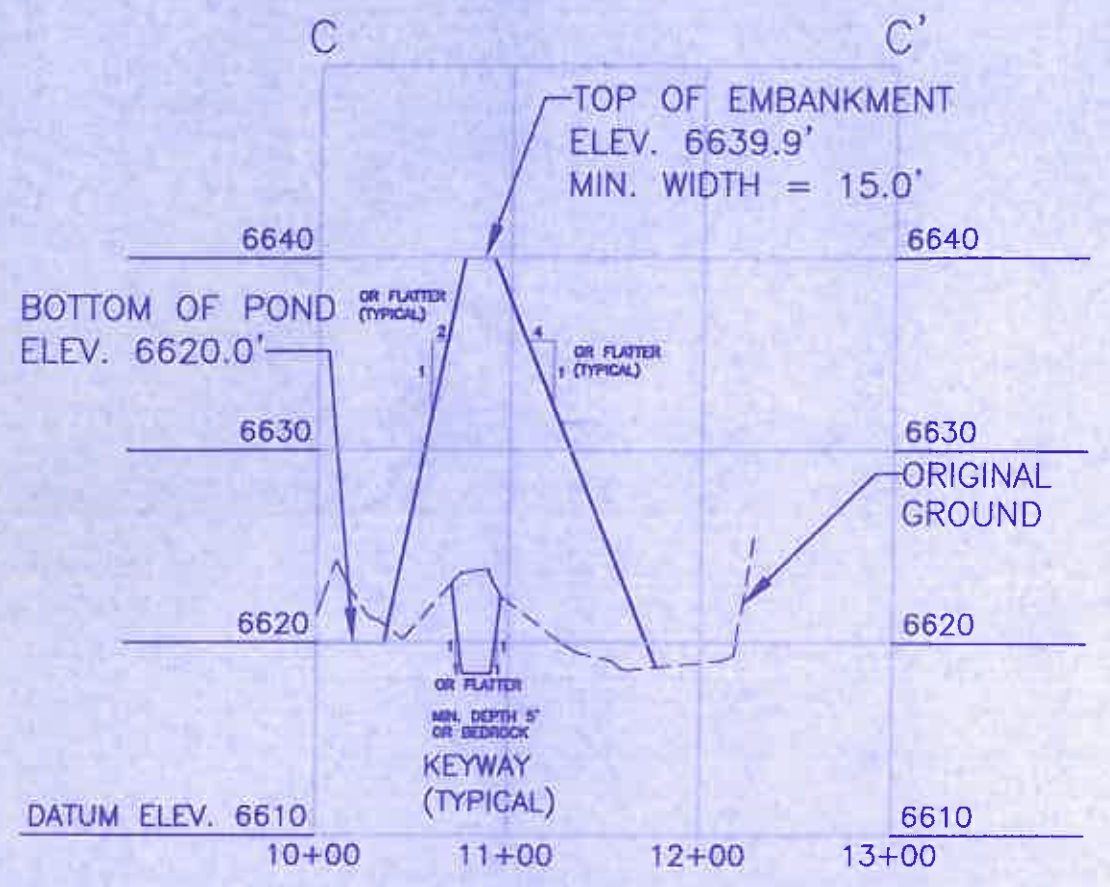
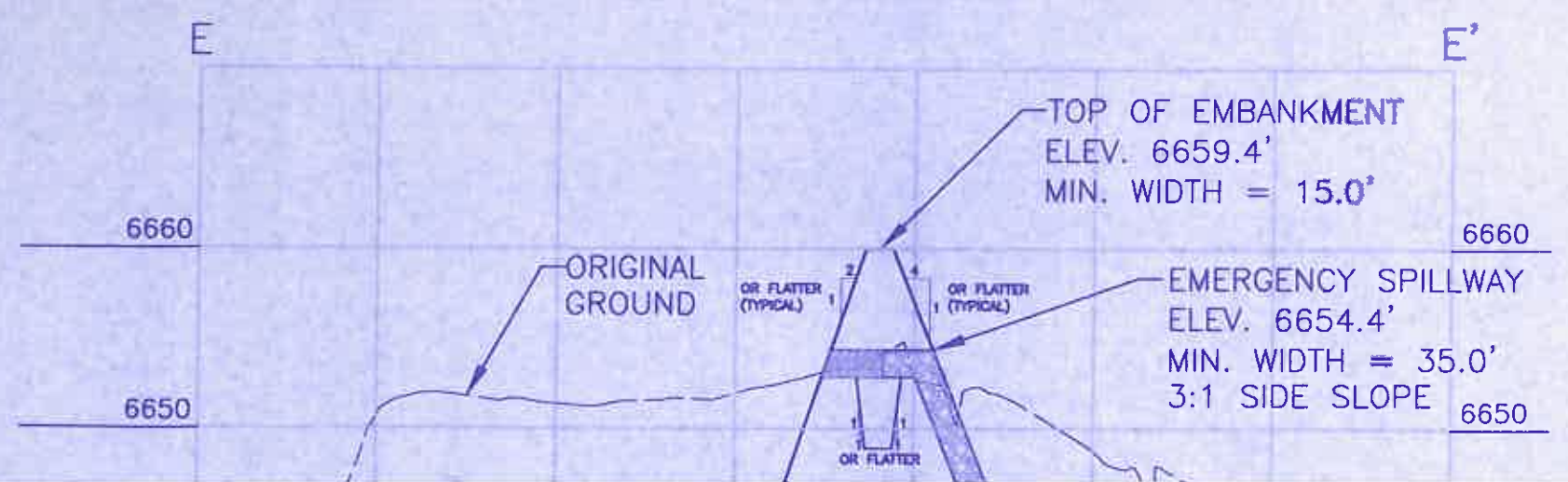
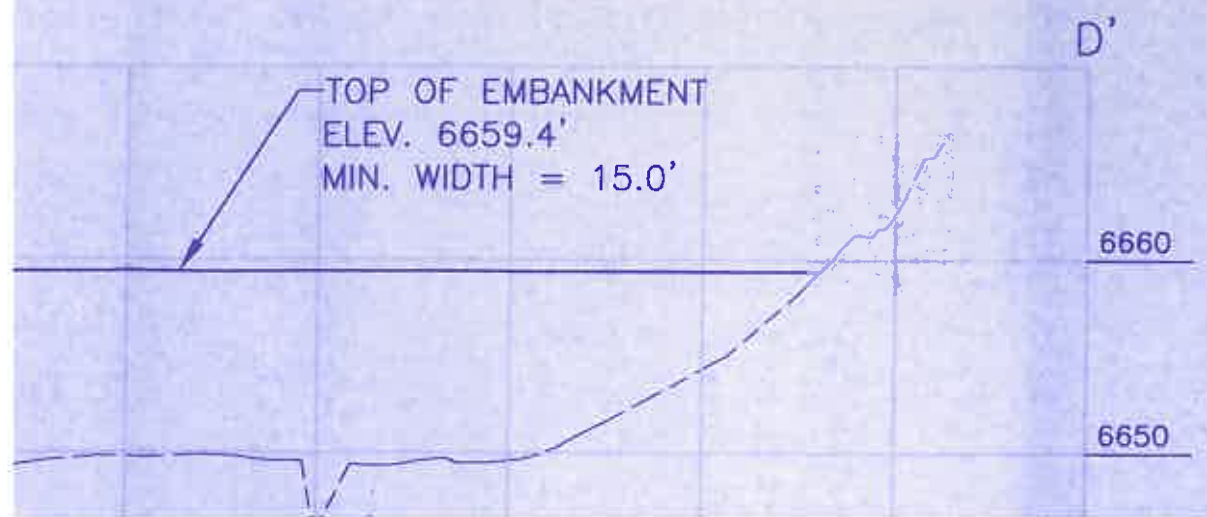
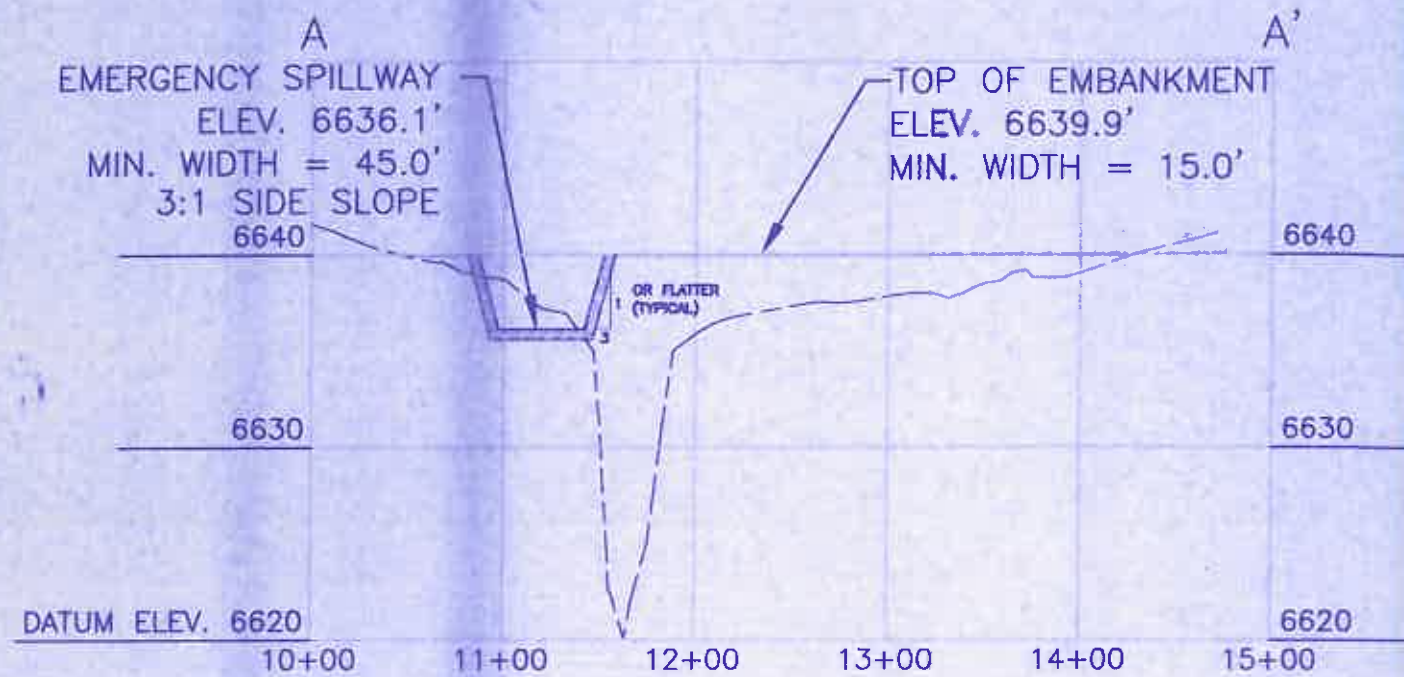
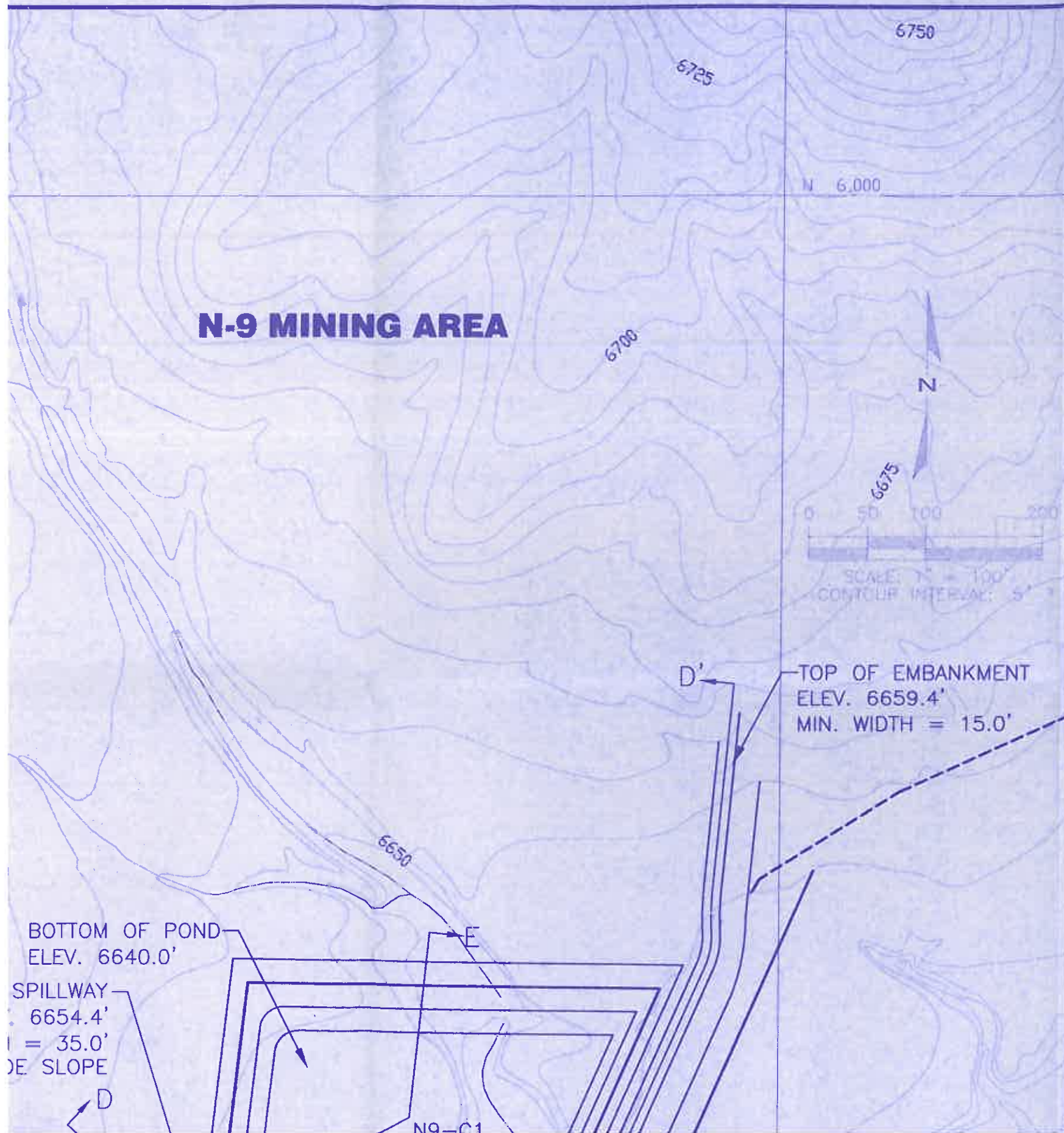


SECTION B - B'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'

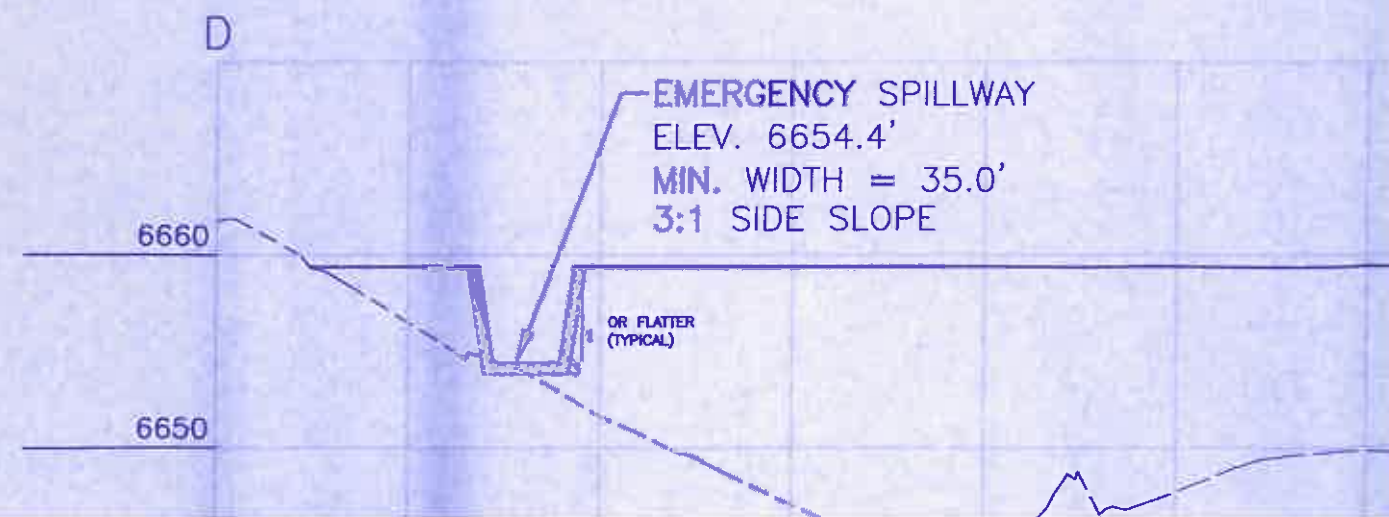


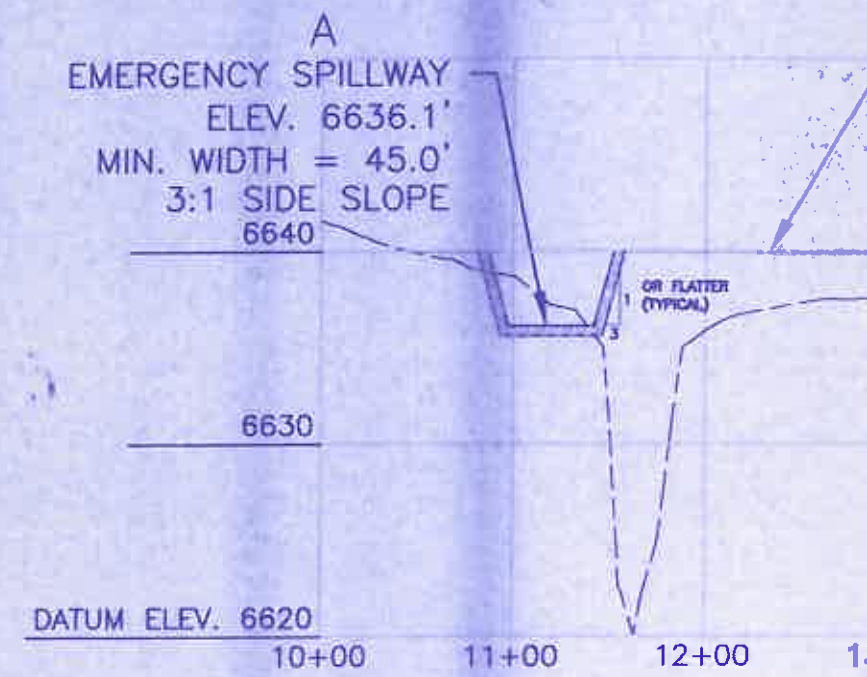
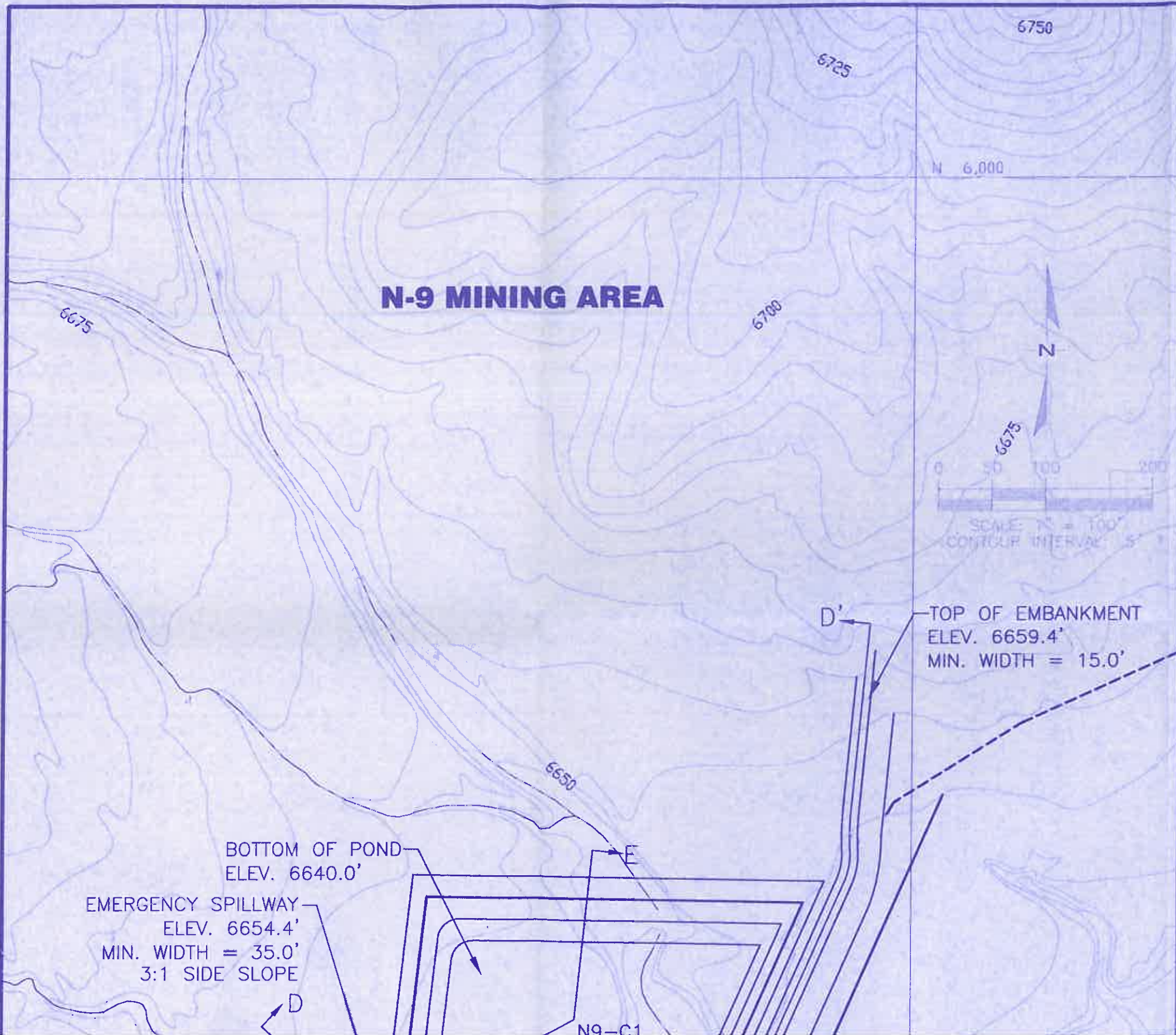
SECTION C - C'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'



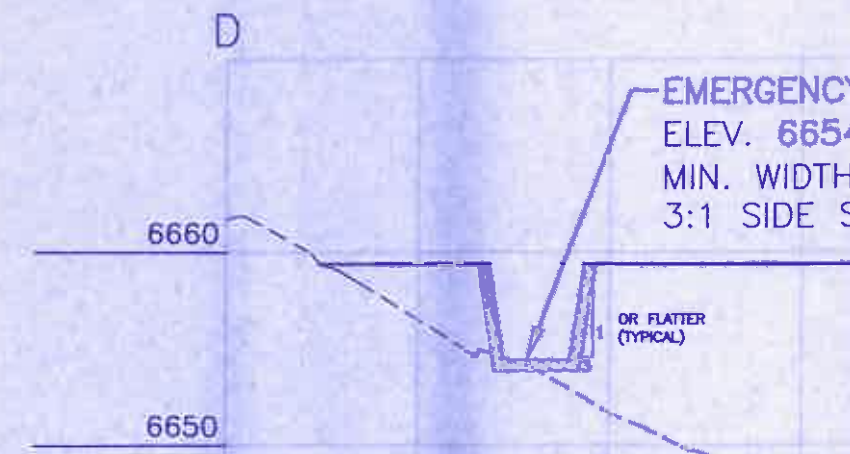


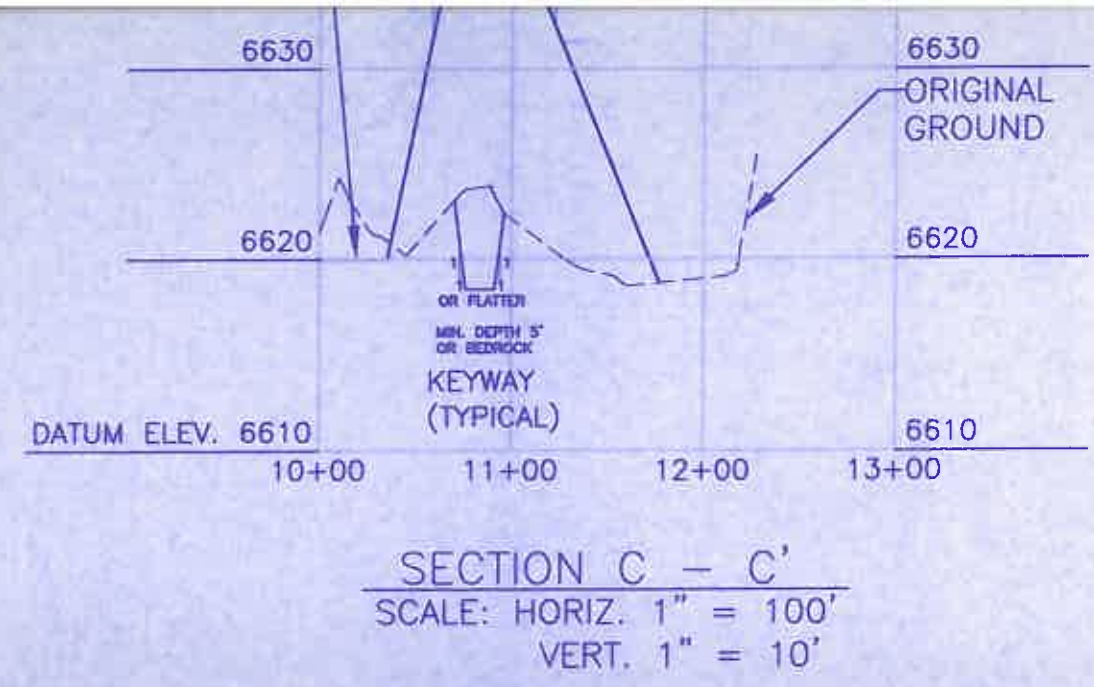
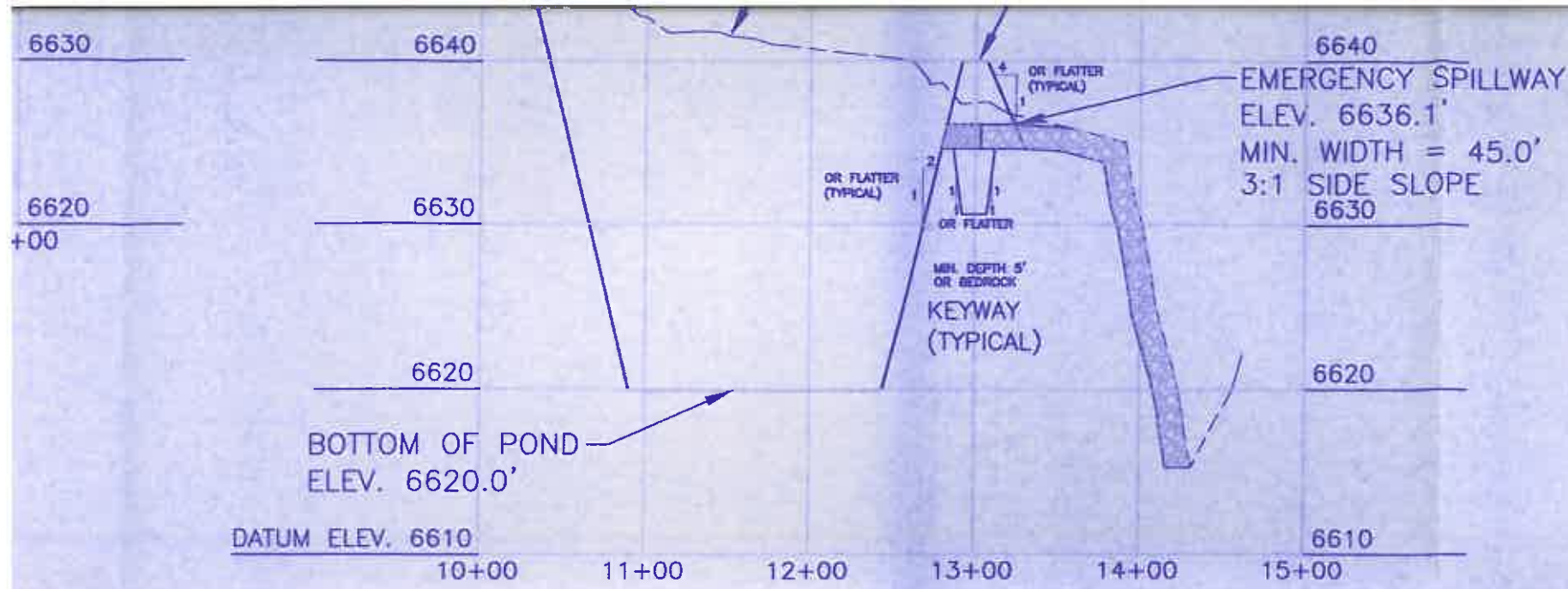
SECTION A - A'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'





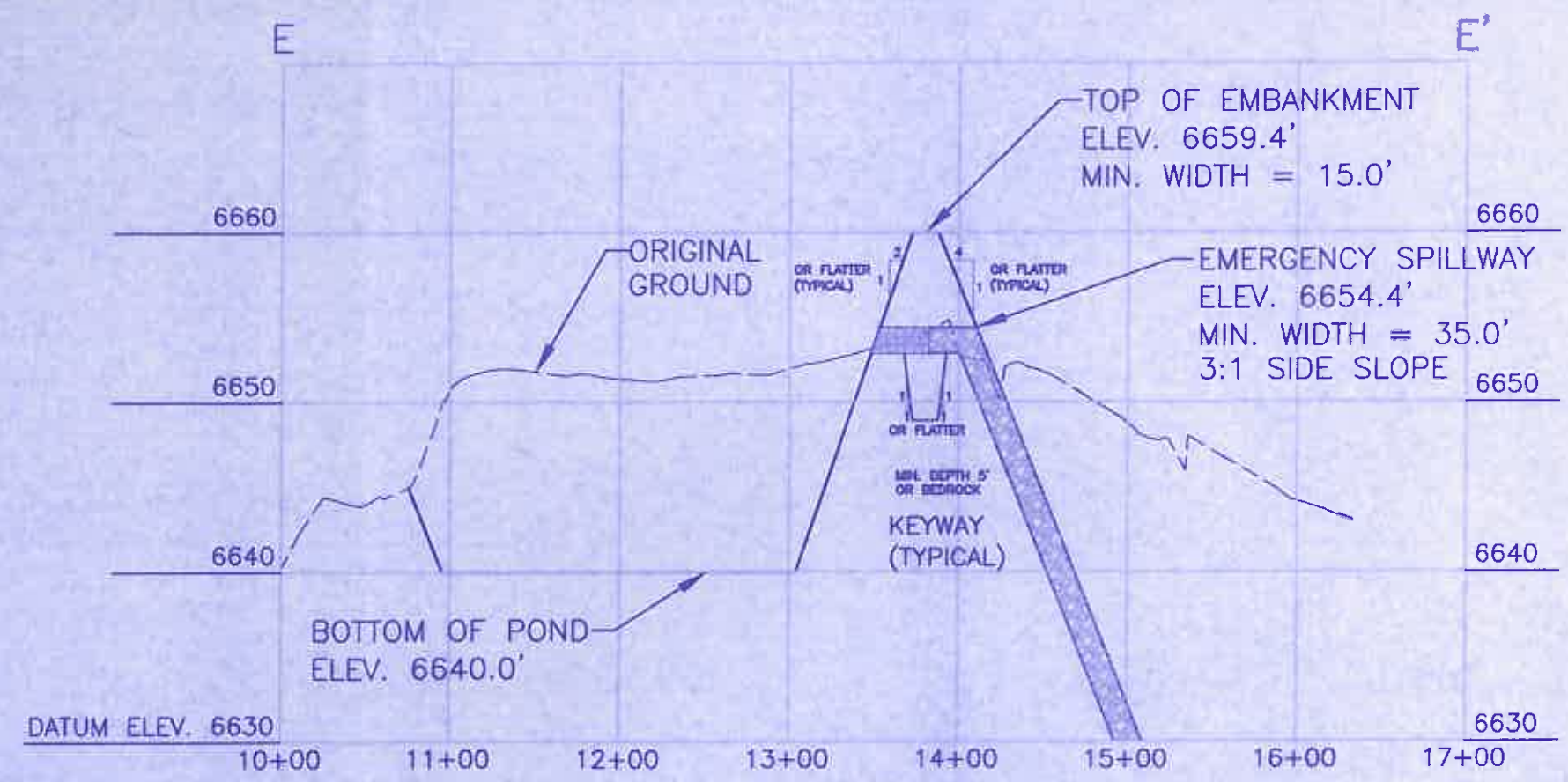
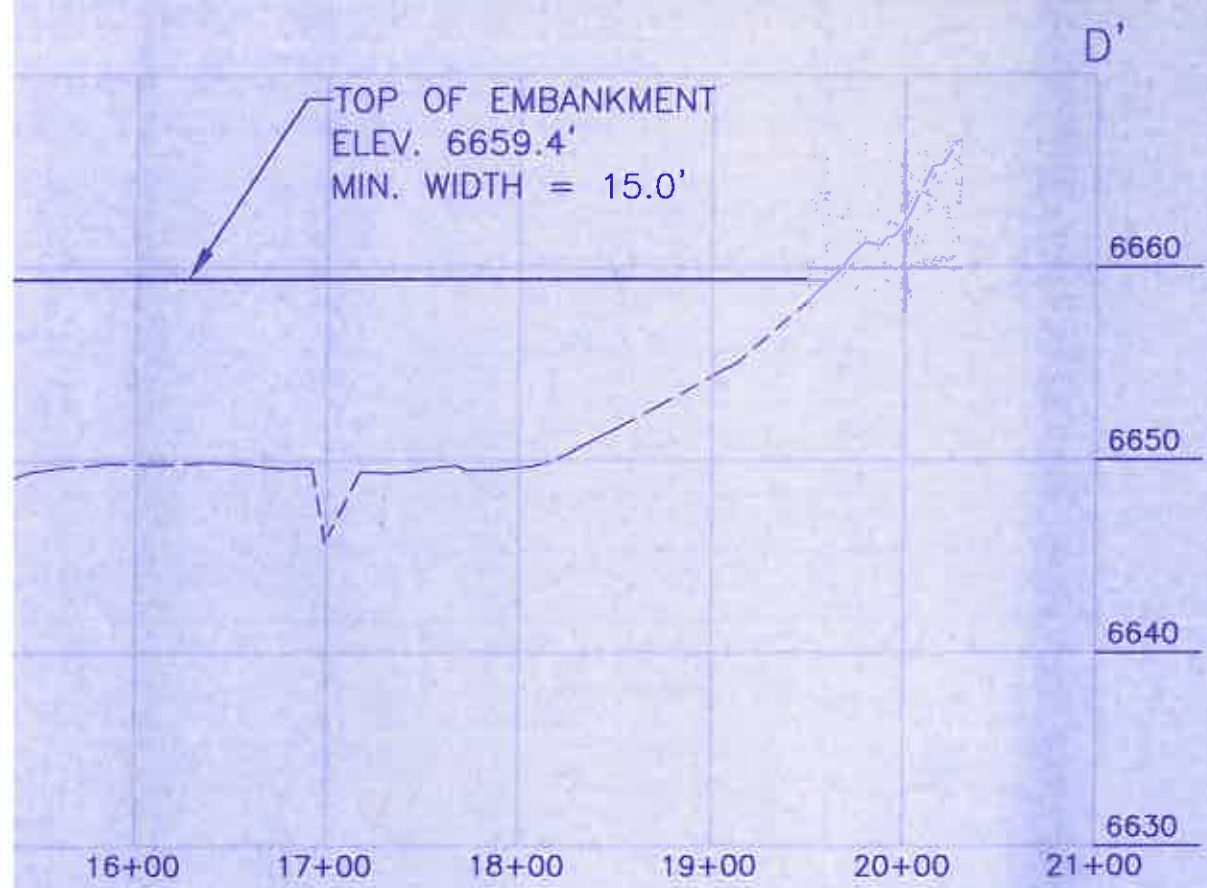
SECTION A
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'





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

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



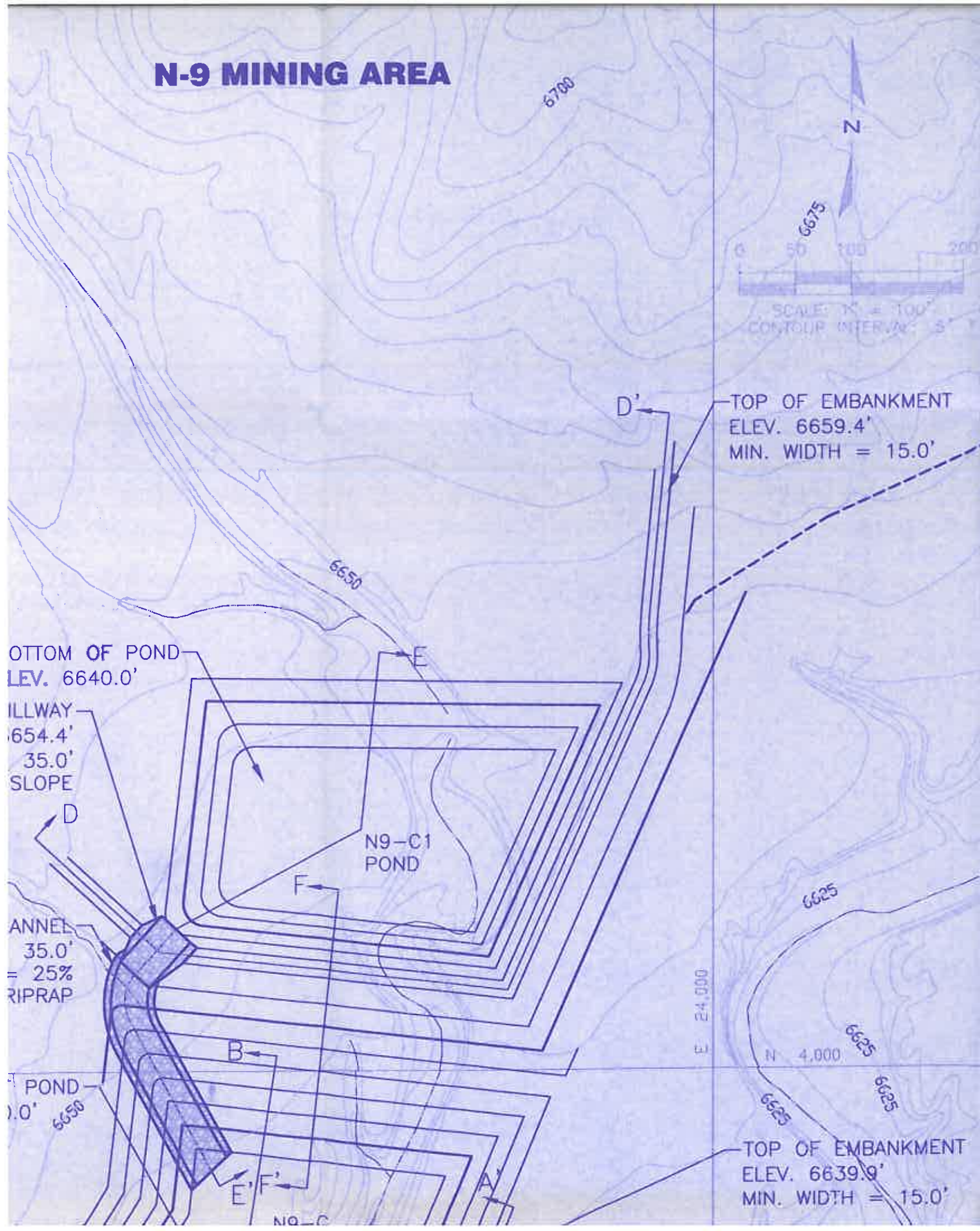
SECTION E - E'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

N9-C POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION

D - D'
HORIZ. 1" = 100'
VERT. 1" = 10'

N-9 MINING AREA



D'
 TOP OF EMBANKMENT
 ELEV. 6659.4'
 MIN. WIDTH = 15.0'

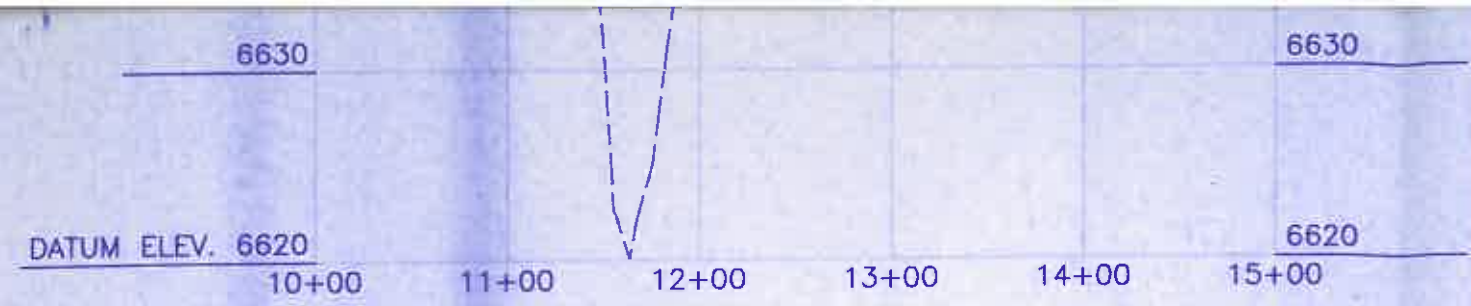
BOTTOM OF POND
 LEV. 6640.0'

SPILLWAY
 35.0'
 SLOPE

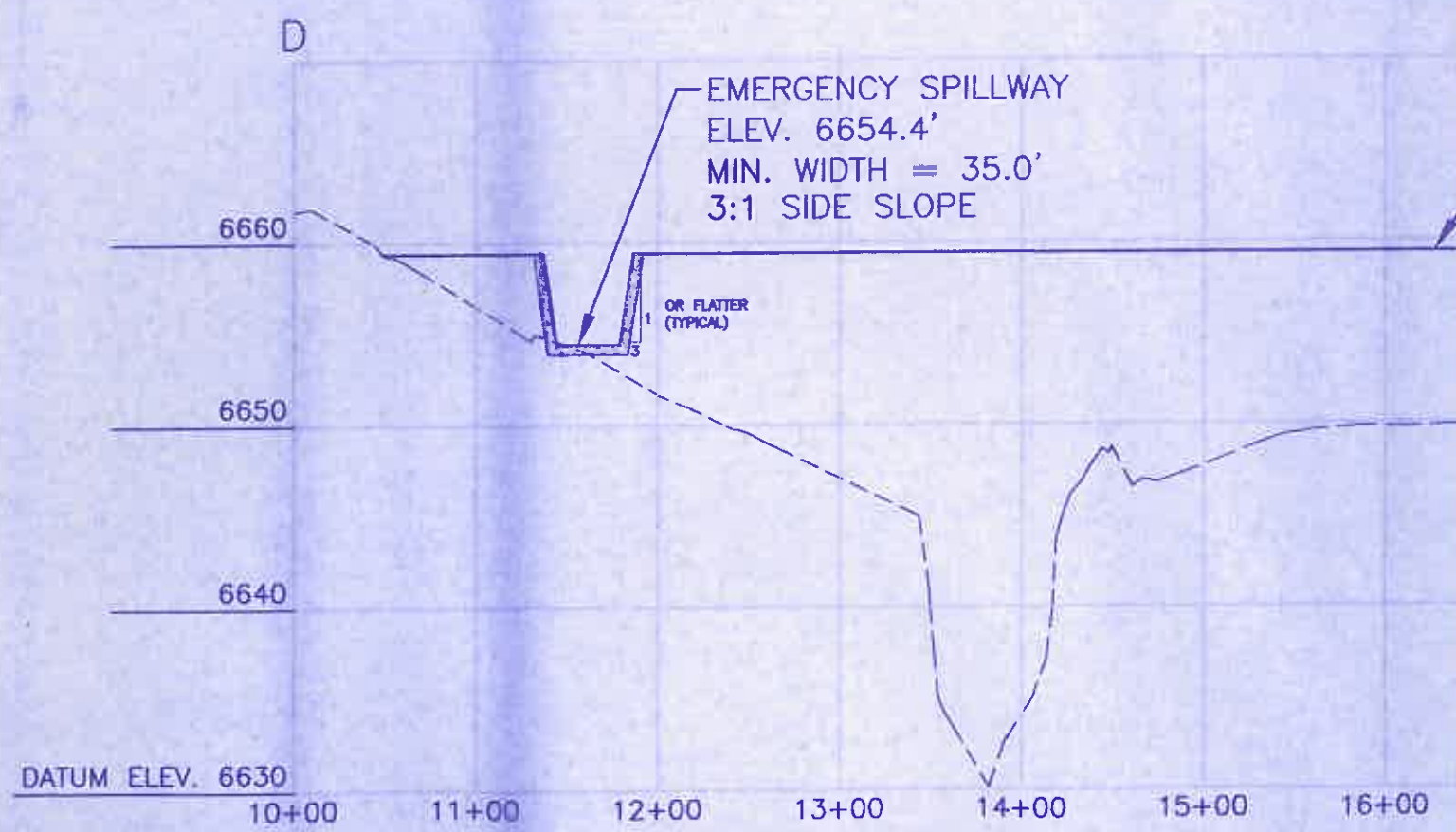
N9-C1 POND

CHANNEL
 35.0'
 = 25%
 RIPRAP

TOP OF EMBANKMENT
 ELEV. 6639.9'
 MIN. WIDTH = 15.0'



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



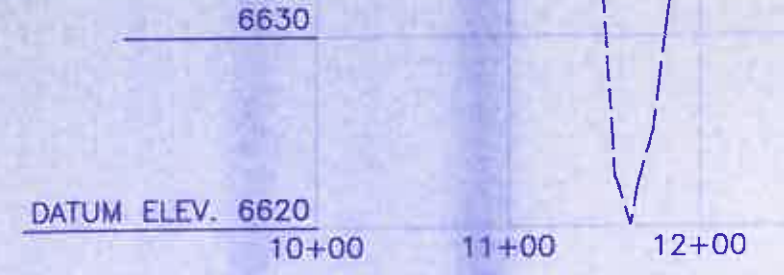
EMERGENCY SPILLWAY
 ELEV. 6654.4'
 MIN. WIDTH = 35.0'
 3:1 SIDE SLOPE

OR FLATTER (TYPICAL)

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

VARIABLE SLOPE DEPENDING ON

N-9 MINING AREA



SECTION A
SCALE: HORIZ.
VERT.

BOTTOM OF POND
ELEV. 6640.0'

EMERGENCY SPILLWAY
ELEV. 6654.4'
MIN. WIDTH = 35.0'
3:1 SIDE SLOPE

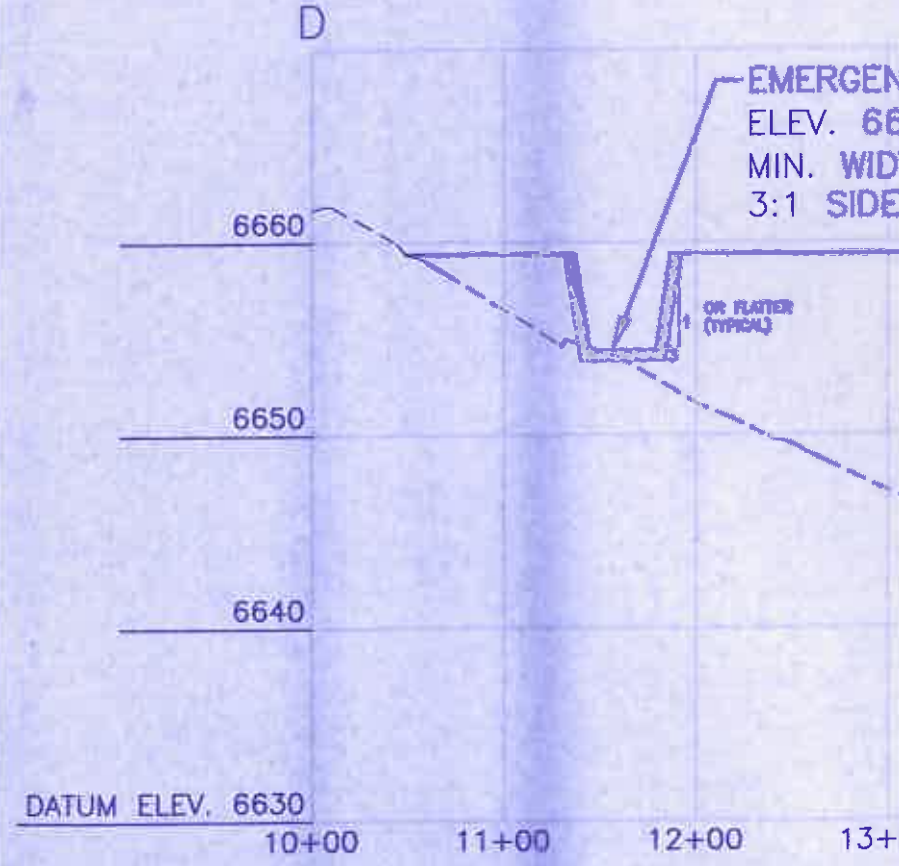
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 35.0'
MAX. SLOPE = 25%
3:1 SIDE SLOPES-RIPRAP

BOTTOM OF POND
ELEV. 6620.0'

TOP OF EMBANKMENT
ELEV. 6659.4'
MIN. WIDTH = 15.0'

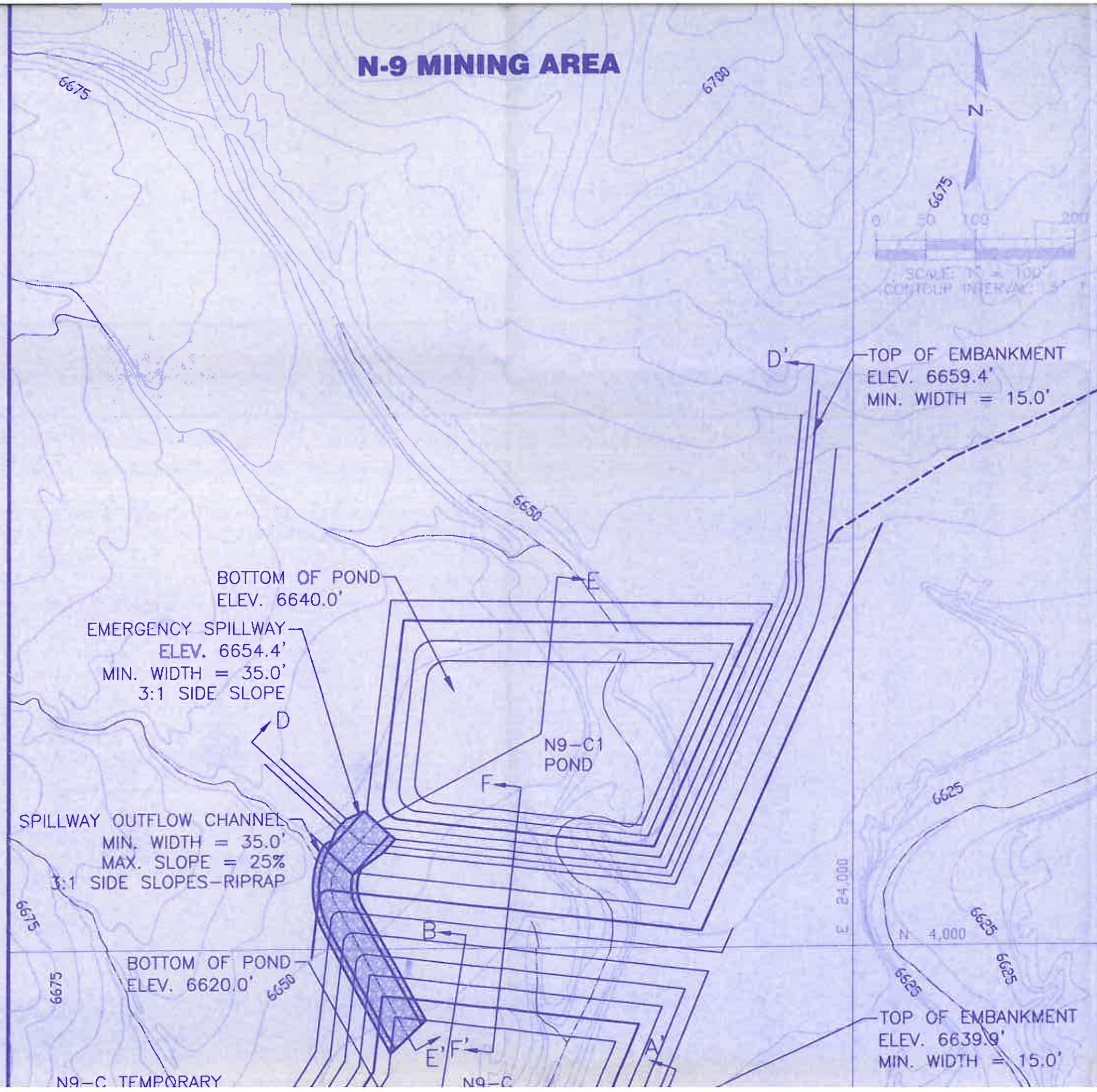
TOP OF EMBANKMENT
ELEV. 6639.9'
MIN. WIDTH = 15.0'

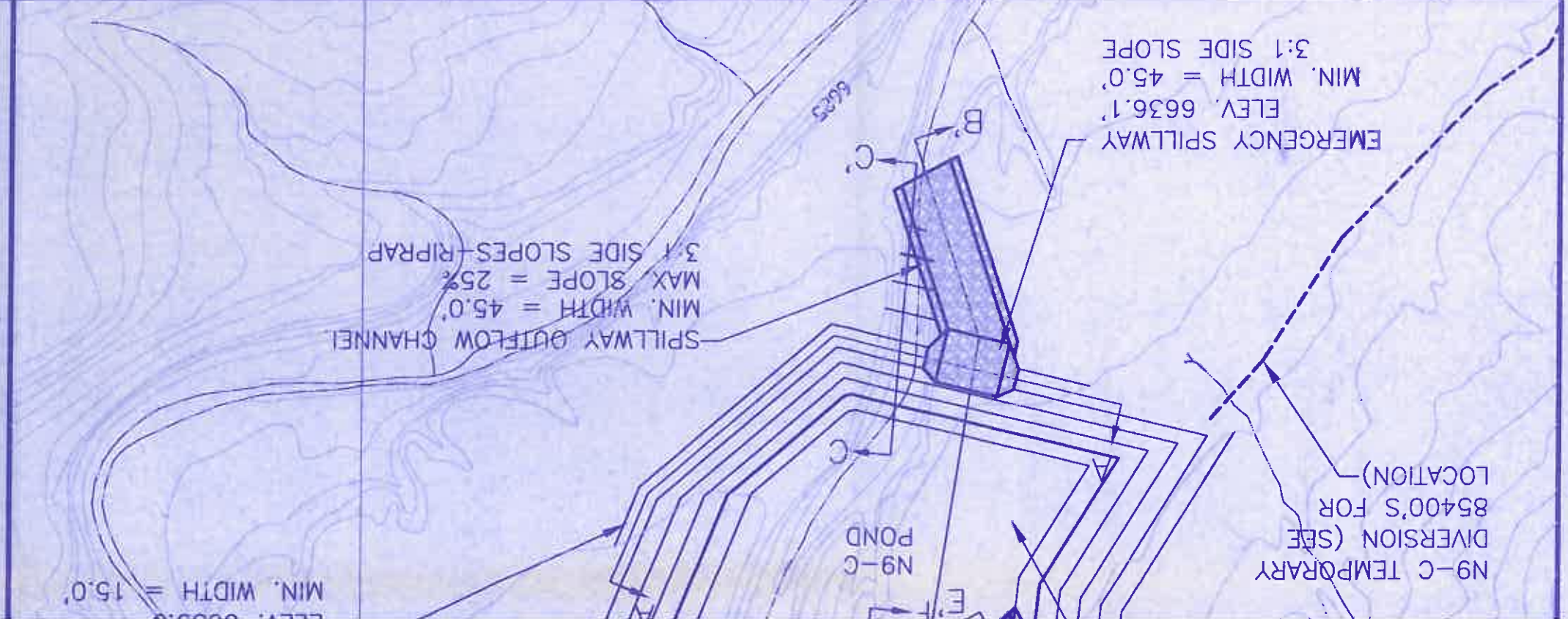
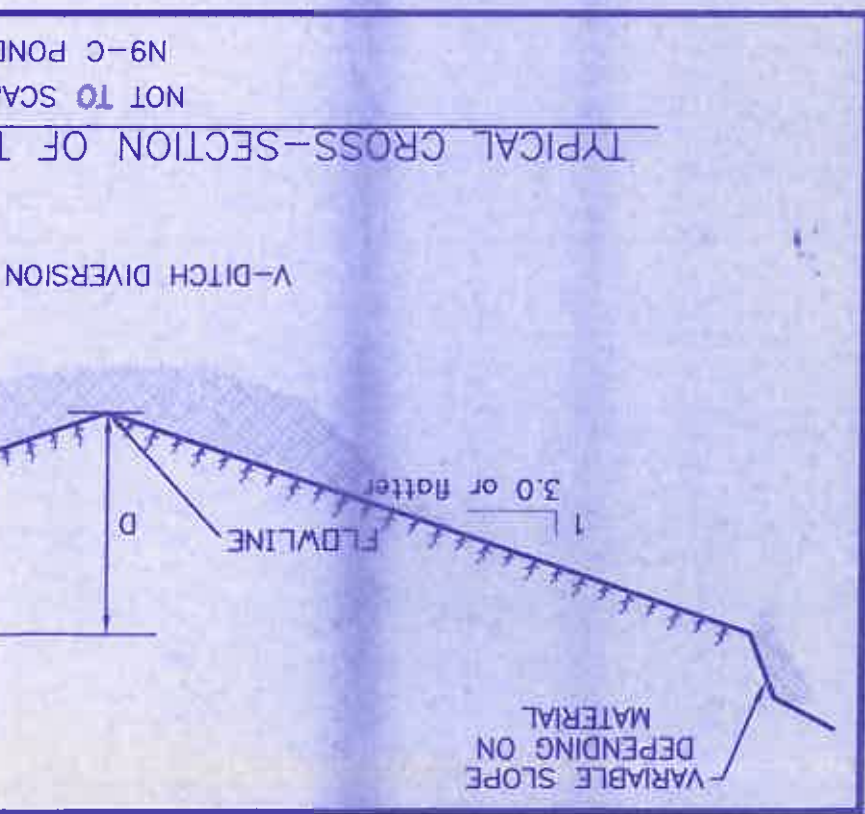
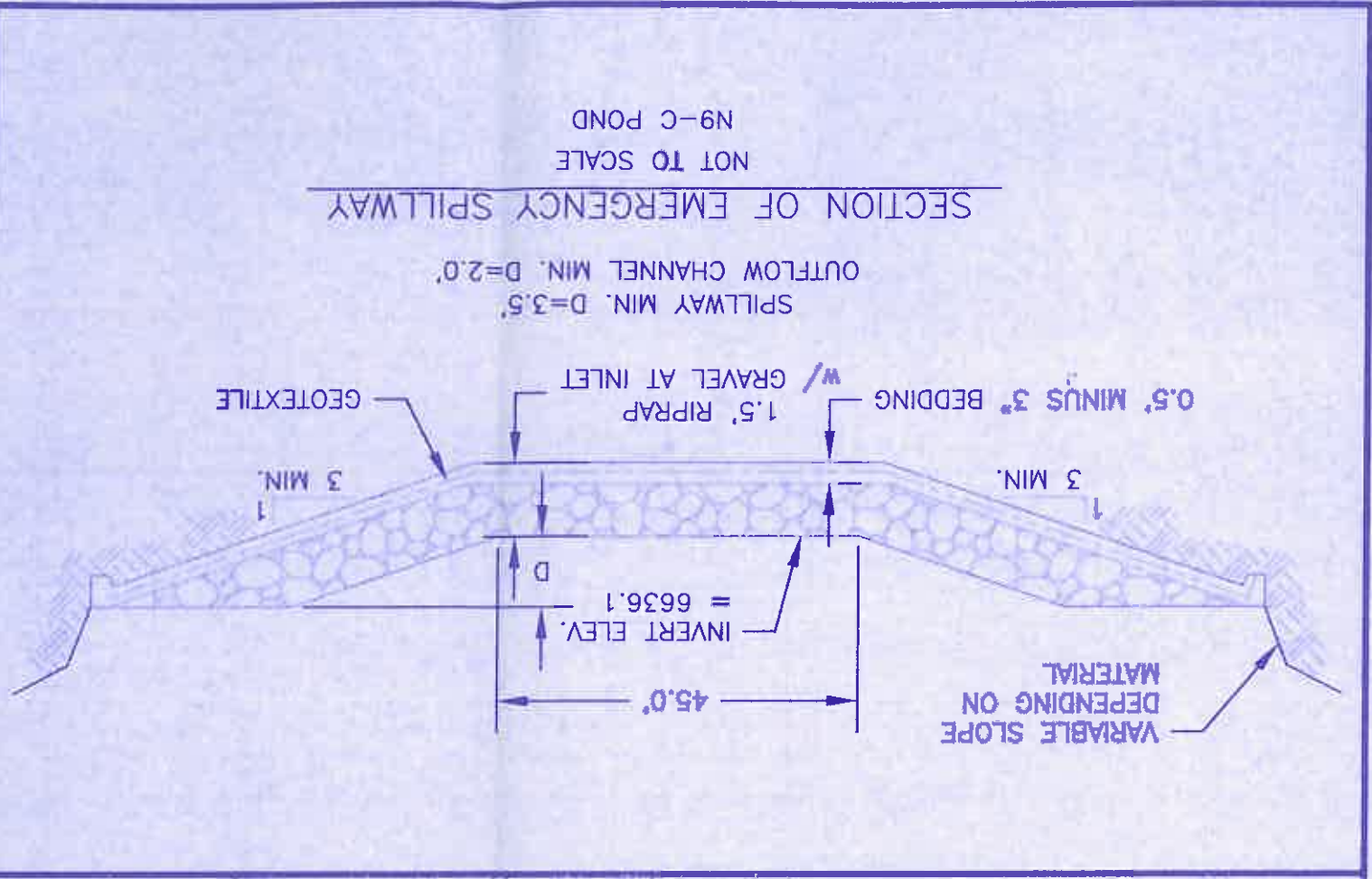
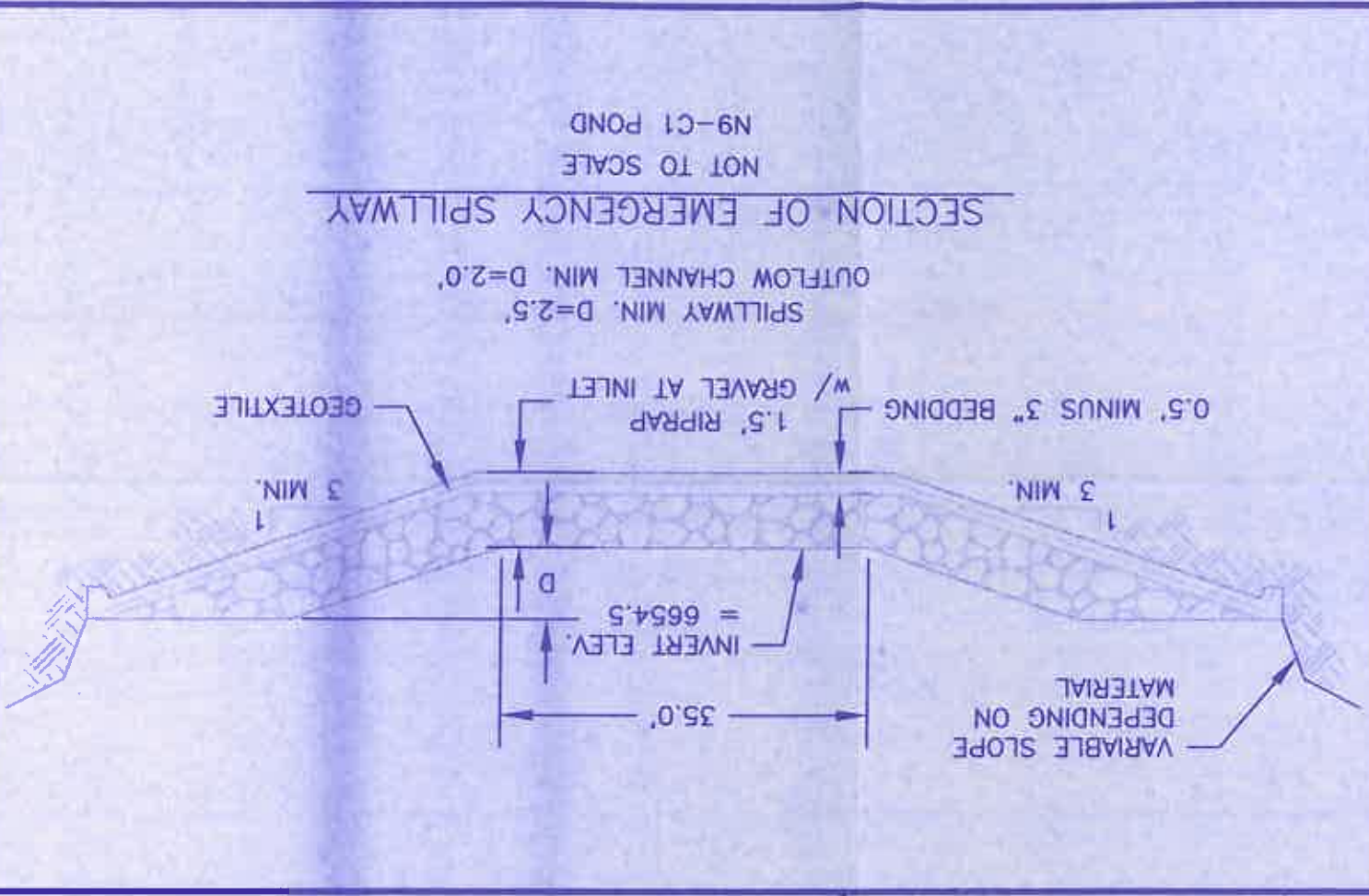
N9-C1
POND

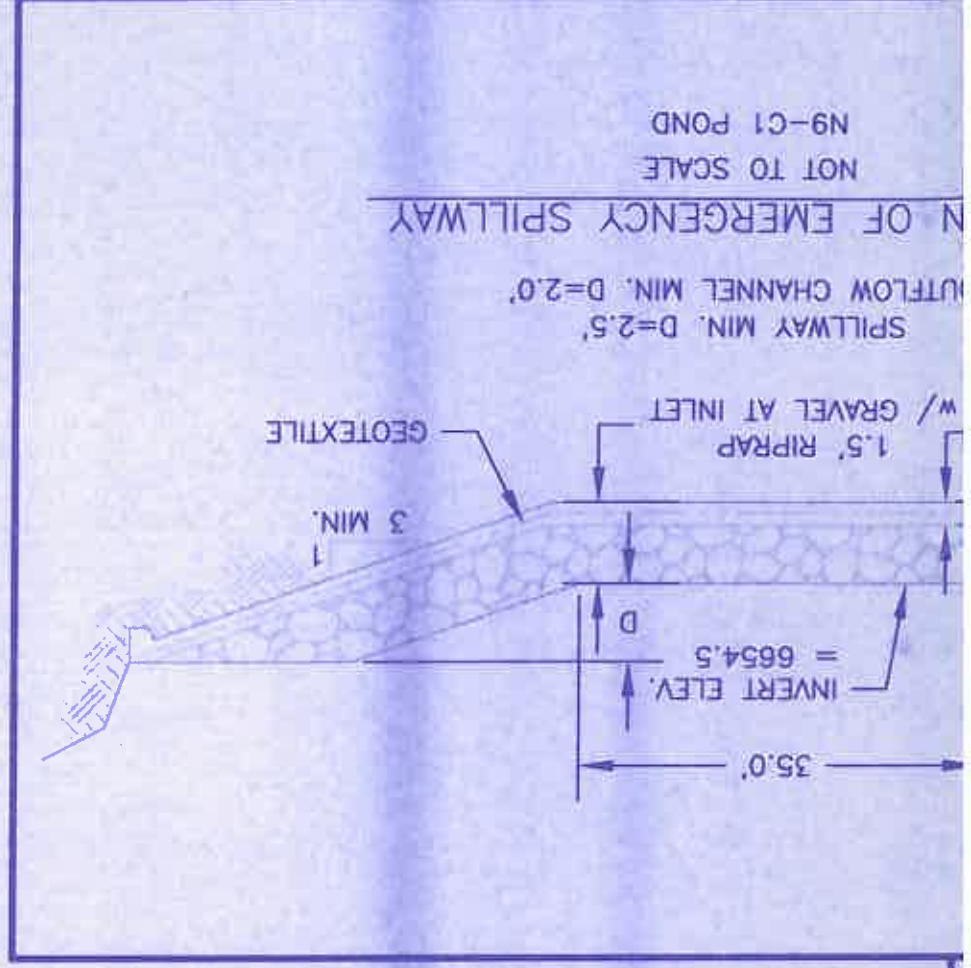
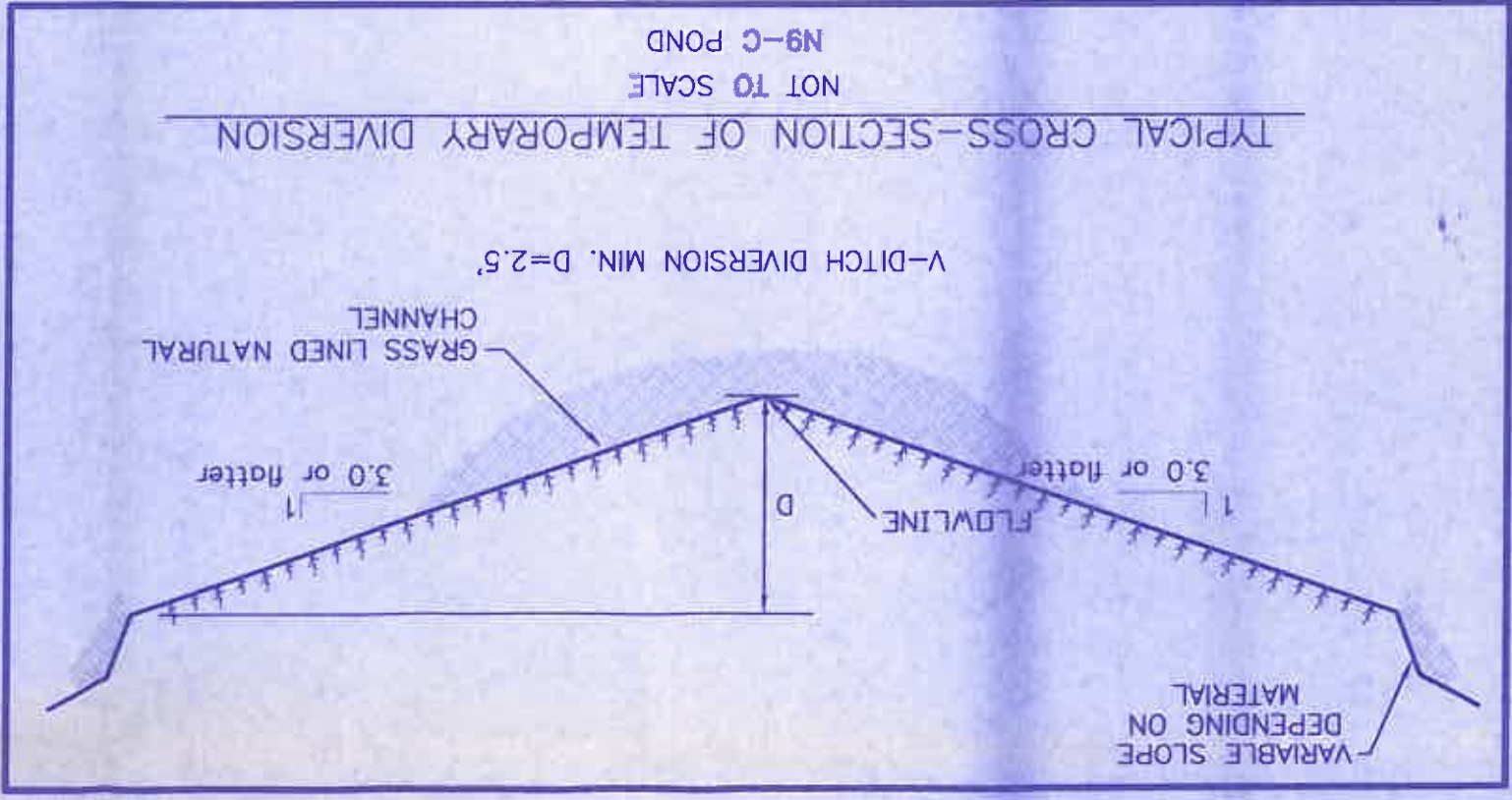


D
DATUM ELEV. 6630
10+00 11+00 12+00 13+00

VARIABLE SLOPE
DEPENDING ON
MATERIAL







DESCRIPTION	ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)
BOTTOM OF POND	6620.0	0.0	0.74	0.00
INCISED ELEV.	6625.0	5.0	1.01	4.37
EMERGENCY SPILLWAY	6630.0	10.0	1.33	10.21
	6635.0	15.0	1.68	17.73
	6636.1	16.1	1.77	19.63
TOP OF EMBANKMENT	6639.9	19.9	2.08	27.14

N9-C1 POND STAGE CAPACITY TABLE

DESCRIPTION	ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)
BOTTOM OF POND	6640.0	0.0	0.91	0.00
INCISED ELEV.	6645.0	5.0	1.21	5.29
EMERGENCY SPILLWAY	6650.0	10.0	1.54	12.14
	6654.4	14.4	1.86	19.62
	6665.0	15.0	1.91	20.76
TOP OF EMBANKMENT	6659.4	19.4	4.69	35.27

NOTES:

- 1) General location, see Drawing No. 85400, Sheet K-6 & K-7 and
- 2) See Chapter 6, Black Mesa PAF for Construction Specifications;
- 3) See Vol. 2, Chapter 5, 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 on flatter and bler topography.

WOODSON
ENGINEERING AND SURVEYING, INC.
124 N. ELDEN ST.
FLAGSTAFF, AZ 86001
PHONE: (928) 774-4638 FAX: (928) 774-4648

ARIZONA P.E. 18782
Date: **DEC 23 2004**



ENGINEER'S CERTIFICATION

TYPICAL CROSS-SECTION OF TEMPORARY DIVERSION

NOT TO SCALE

N9-C POND

ARIZONA P.E. 18782
Date: **DEC 23 2004**

ER'S CERTIFICATION

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

EXHIBIT # 1	
PROPOSED N9-C & C1	
SEDIMENTATION POND DESIGN	
KAYENTA MINE PEABODY WESTERN COAL COMPANY P. O. BOX 650 KAYENTA, ARIZONA 86033	
DESIGNED BY: GA	SCALE: AS NOTED
DRAWN BY: AS	DRAWING DATE: 11-22-04
CHECKED BY: JGS	PHOTO DATE: 05-83
CONTOUR INTERVAL: 5 FT. DWG FILE: POND N9-C,C1,C2,C3.DWG	

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6659.4	19.4	4.69	35.27	TOP OF EMBANKMENT
6665.0	15.0	1.91	20.76	
6654.4	14.4	1.86	19.62	EMERGENCY SPILLWAY
6650.0	10.0	1.54	12.14	
6645.0	5.0	1.21	5.29	INCISED ELEV.
6640.0	0.0	0.91	0.00	BOTTOM OF POND

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6639.9	19.9	2.08	27.14	TOP OF EMBANKMENT
6636.1	16.1	1.77	19.63	EMERGENCY SPILLWAY
6635.0	15.0	1.68	17.73	
6630.0	10.0	1.33	10.21	
6625.0	5.0	1.01	4.37	INCISED ELEV.
6620.0	0.0	0.74	0.00	BOTTOM OF POND

N9-C1 POND STAGE CAPACITY TABLE

