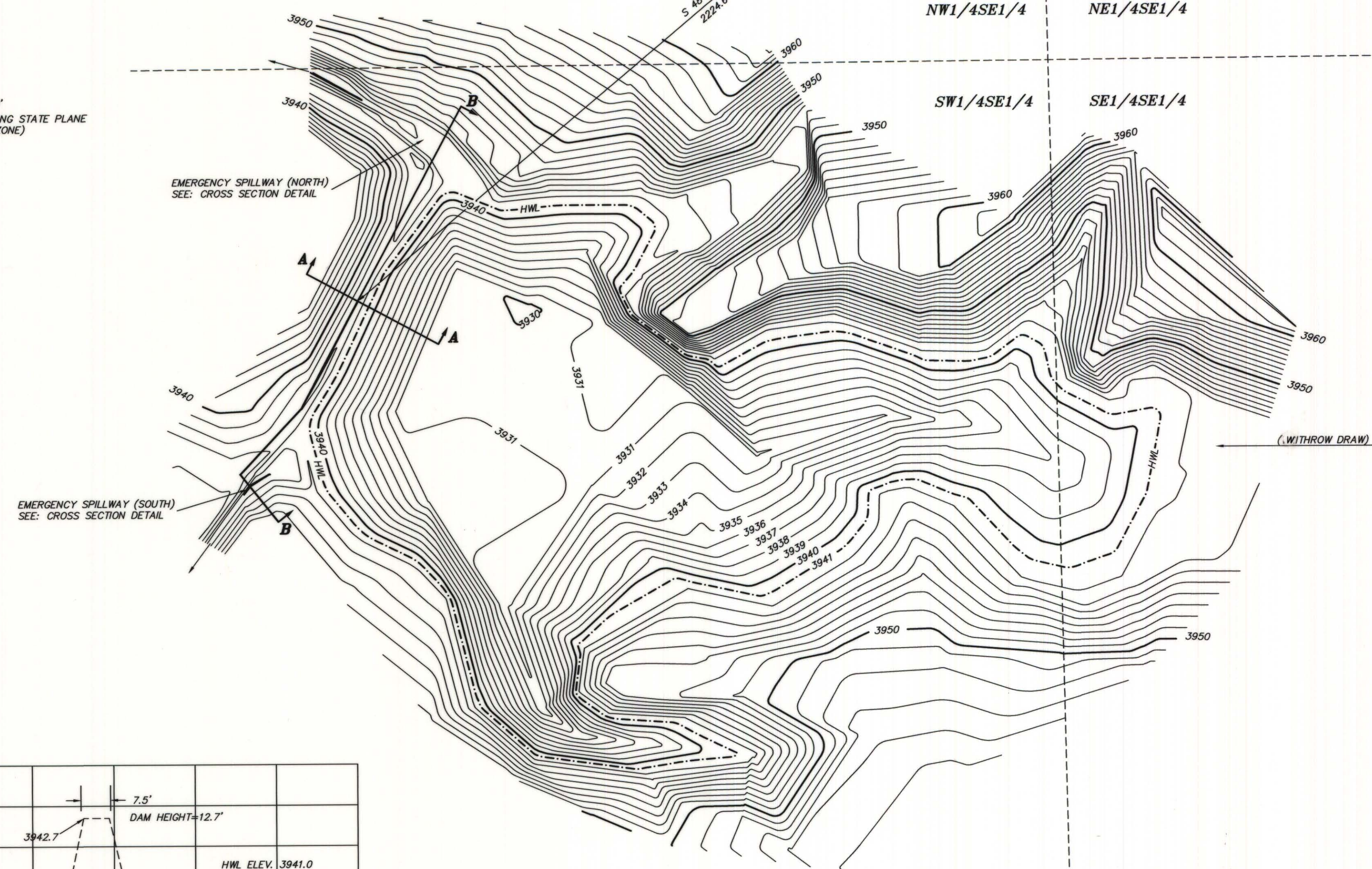


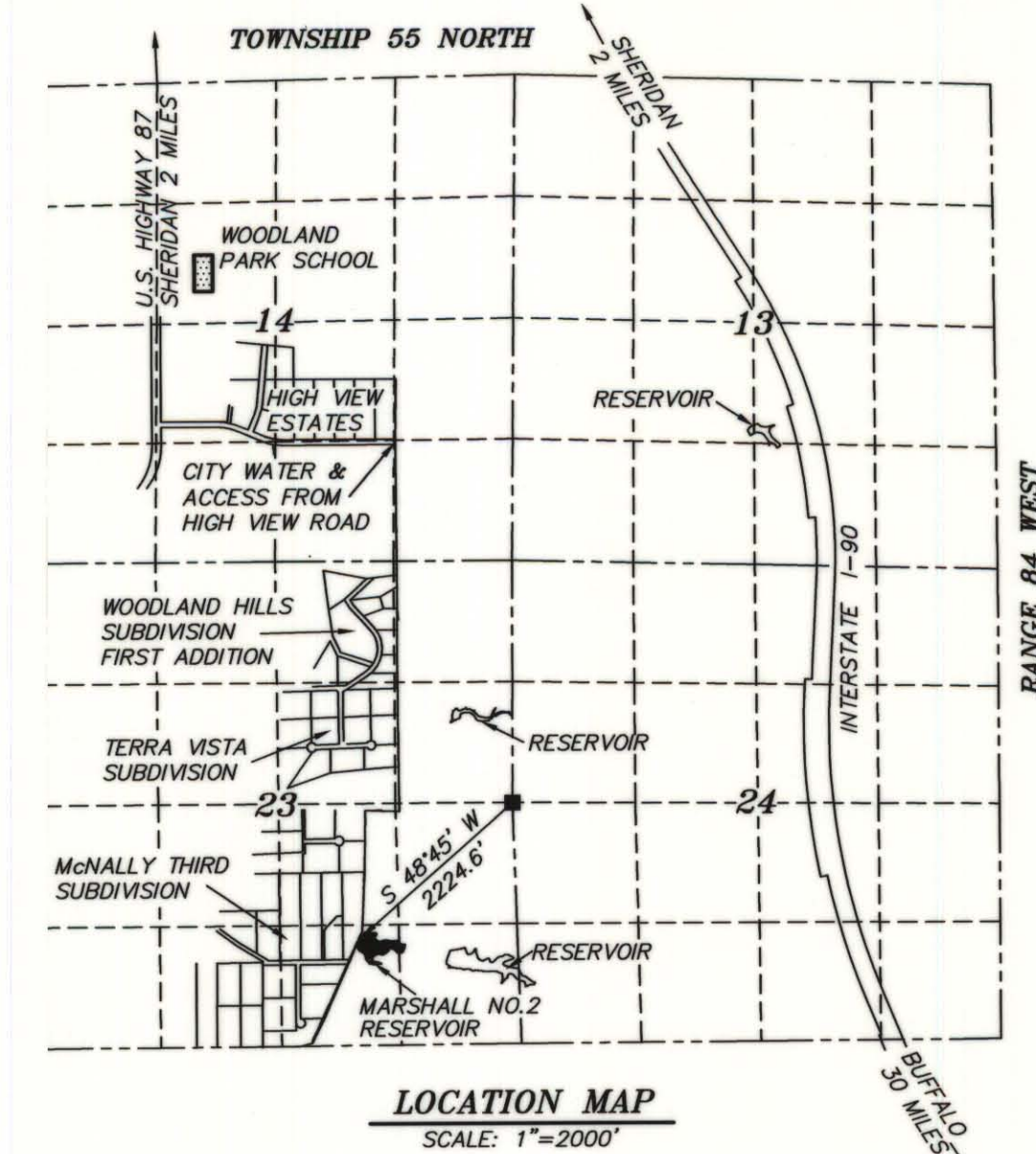
SCALE: 1"=50'
BASIS OF BEARINGS IS WYOMING STATE PLANE
(EAST CENTRAL ZONE)



RESERVOIR CAPACITY TABLE

CONTOUR LINE	AREA	INCR.(AF)	CUM.(AF)
3930	0.01		0.00
		0.16	
3931	0.30		0.16
		0.44	
3932	0.58		0.60
		0.64	
3933	0.70		1.24
		0.76	
3934	0.82		2.00
		0.88	
3935	0.94		2.88
		1.01	
3936	1.07		3.89
		1.14	
3937	1.21		5.03
		1.29	
3938	1.37		6.32
		1.47	
3939	1.56		7.79
		1.66	
3940	1.76		9.45
		1.87	
3941(HWL)	1.98		11.32
TOTAL			11.32

INACTIVE CAPACITY
11.32 ACRE FEET
STOCK USAGE



MARSHALL NO. 2 RESERVOIR
FOR STOCK USAGE: WATER IS A FLOW THROUGH
FROM (WITHDRAW DRAW), USE WILL BE FOR STOCK ONLY
H.W.L. AREA=1.98 ACRES MAXIMUM DEPTH=11' CAPACITY=11.32 Ac. ft.
(AREAS AND VOLUME CALCULATED WITH DCA AUTO-CAD)

NORTH
EMERGENCY SPILLWAY HYDRAULICS:

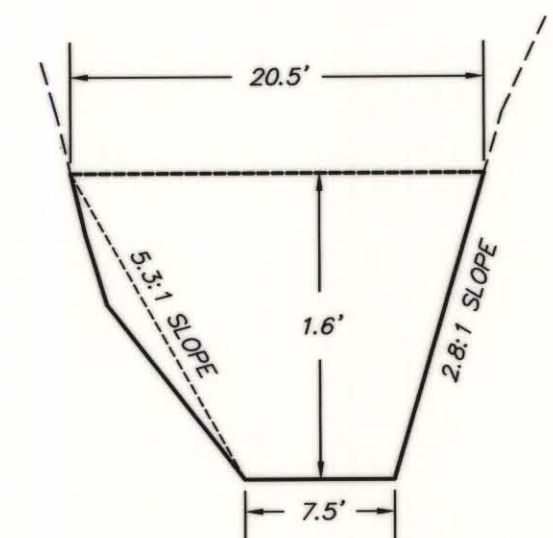
S= 0.025 FT/FT
R= 1.07
V= 8.20 FPS
A= 22.37 SF
N= 0.030
Q= 183.37 CFS

THE HYDRAULIC COMPUTATIONS WERE MADE WITH MANNING'S FORMULA
FLOWMASTER 1 (HAESTAD METHODS)

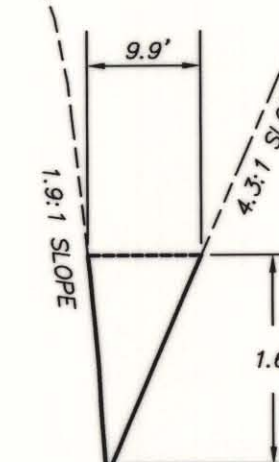
SOUTH
EMERGENCY SPILLWAY HYDRAULICS:

S= 0.0556 FT/FT
R= 0.76
V= 9.69 FPS
A= 7.94 SF
N= 0.030
Q= 76.91 CFS

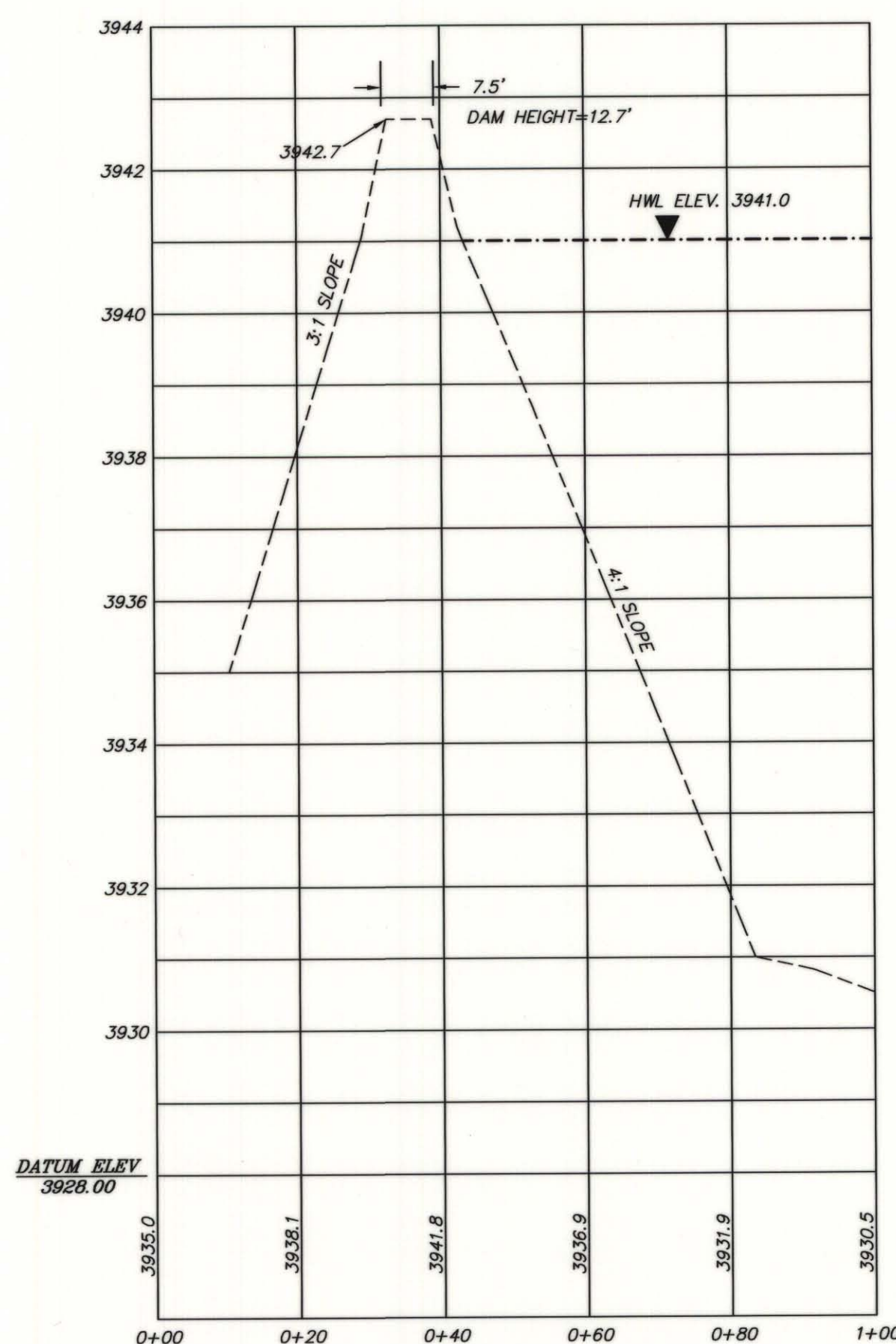
THE HYDRAULIC COMPUTATIONS WERE MADE WITH MANNING'S FORMULA
FLOWMASTER 1 (HAESTAD METHODS)



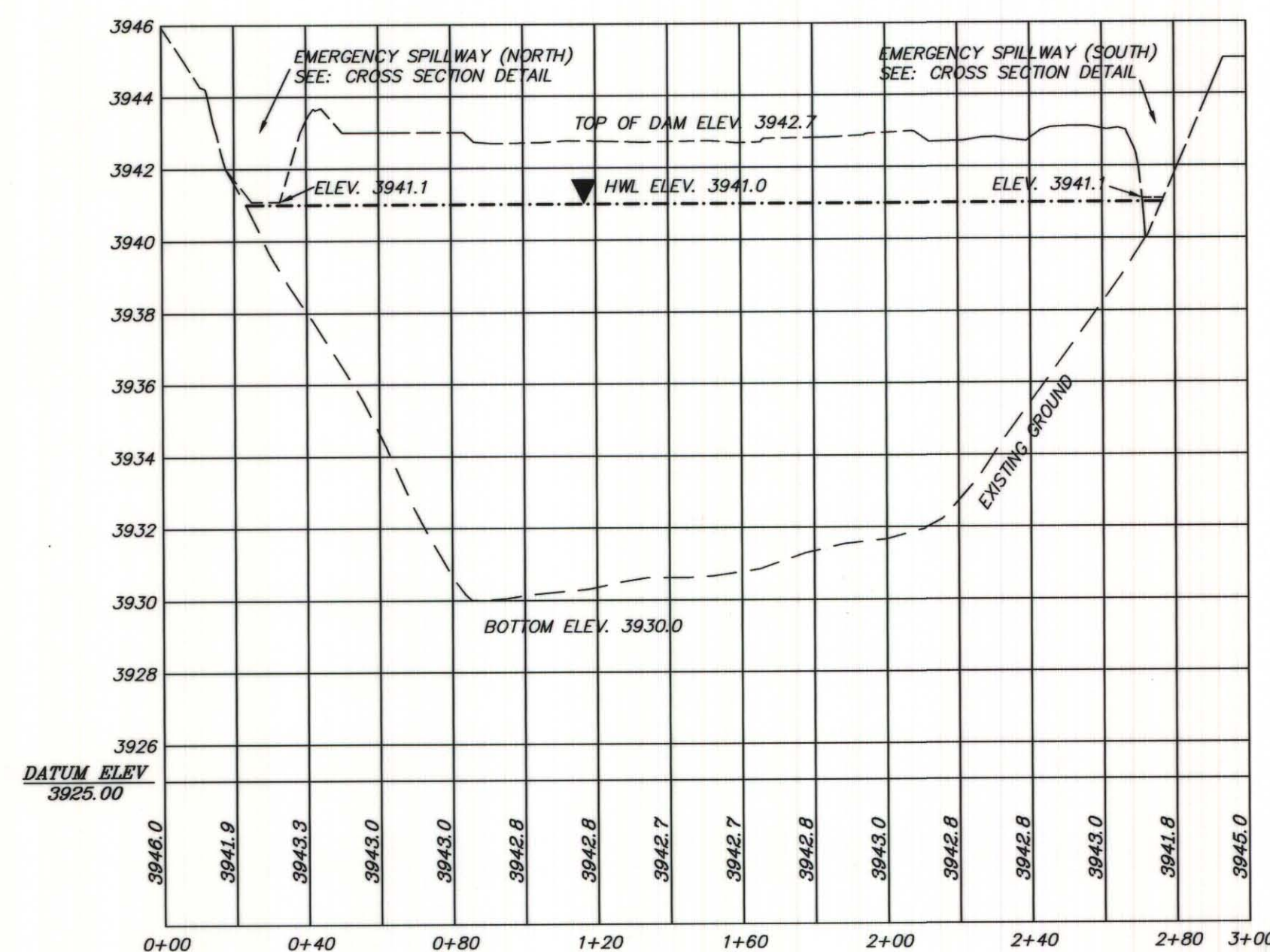
**NORTH
EMERGENCY SPILLWAY**
NO SCALE



**SOUTH
EMERGENCY SPILLWAY**
NO SCALE



DAM CROSS SECTION A-A
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=2'



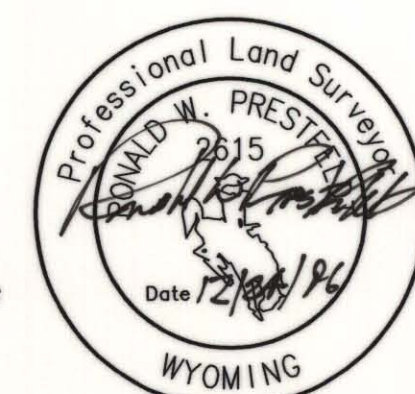
DAM PROFILE B-B
SCALE: HORIZONTAL 1"=40', VERTICAL 1"=4'

SURVEYOR'S CERTIFICATE

STATE OF WYOMING
COUNTY OF SHERIDAN

I, RONALD W. PRESTFELDT A DULY REGISTERED LAND SURVEYOR IN THE STATE OF WYOMING, DO HEREBY CERTIFY THAT THIS PLAT TRULY AND CORRECTLY REPRESENTS THE RESULTS OF A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION DURING OCTOBER, 1994.

RONALD W. PRESTFELDT WY L.S. 2615



MAP

TO ACCOMPANY APPLICATION FOR THE MARSHALL NO. 2 RESERVOIR

APPLICANT:

BILL DOENZ
P.O. BOX 6474
SHERIDAN, WYOMING 82801



JC 93018
DW 9301802
MAY 15, 1996

APPROVED: May 18, 1994
Gordon W. Fissett
GORDON W. FISSETT, STATE ENGINEER

TF 29 3/182

File: D-3

MICROS SEP 12 1997

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