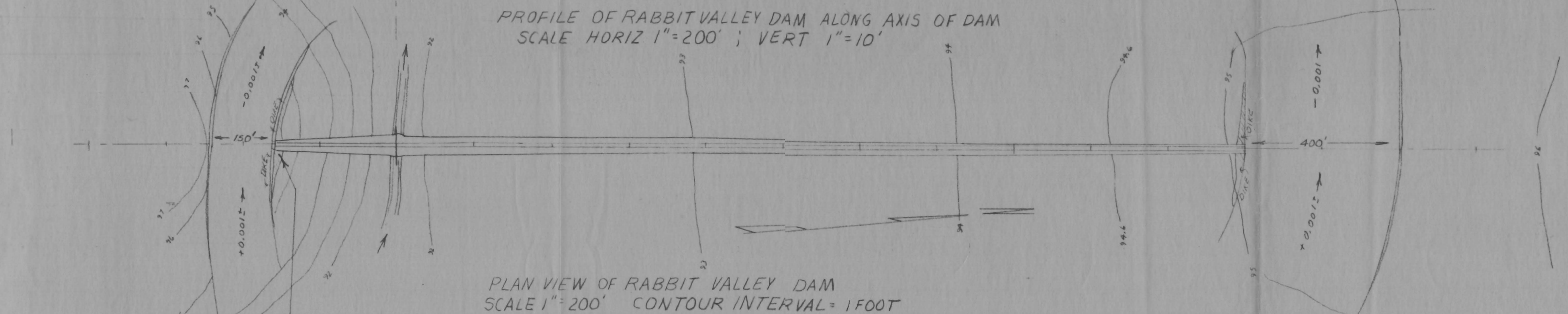
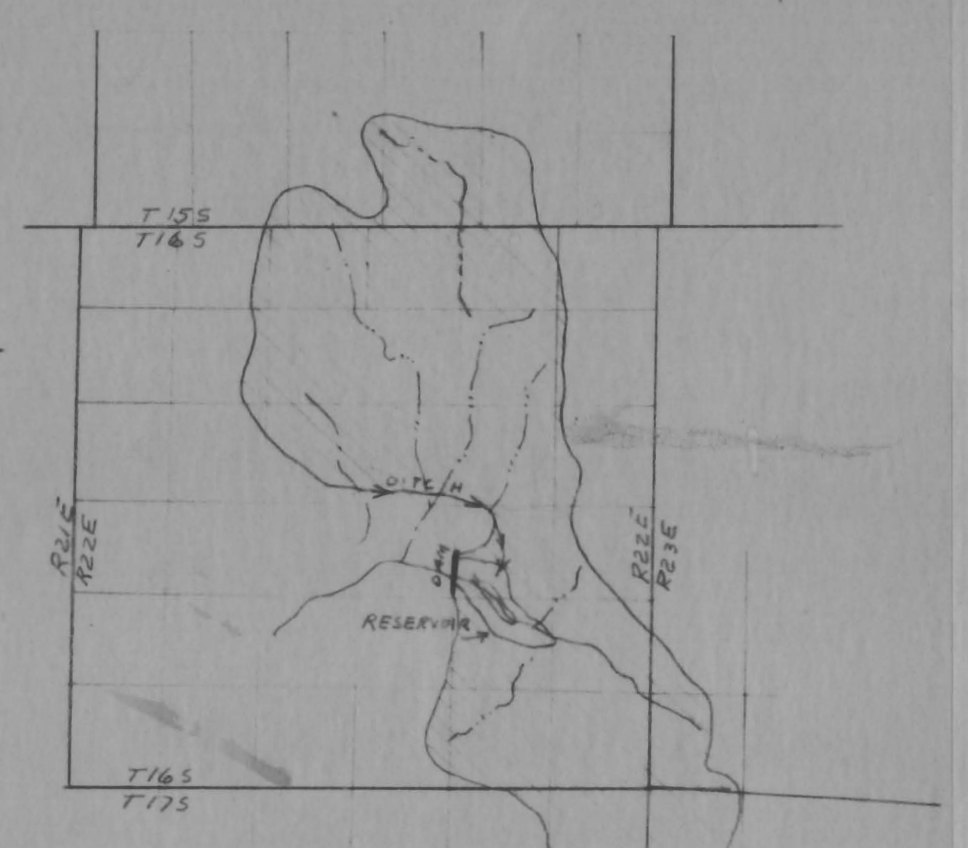


PROFILE OF RABBIT VALLEY DAM ALONG AXIS OF DAM
SCALE HORIZ 1"=200' ; VERT 1"=10'



PLAN VIEW OF RABBIT VALLEY DAM
SCALE 1"=200' CONTOUR INTERVAL = 1 FOOT

DRAINAGE MAP
SCALE 1" = 2 MI
SHADED AREA = DRAINAGE



DRAINAGE AREA = 19.8 SQ. MI.

SPILLWAY CAPACITY COMPUTATION

$$FLOOD MAXIMA = \frac{MYER'S RATING \times 10,000}{\sqrt{AREA \text{ IN SQ. MI.}}}$$

$$100 \text{ C.F.S./SQ. MI.} = \frac{(1.0445 \times 10,000)}{\sqrt{19.8 \text{ SQ. MI.}}}$$

$$FLOOD PEAK = FLOOD MAX / MAX AREA \text{ IN SQ. MI.}$$

$$1980 \text{ C.F.S.} = 100 \text{ C.F.S./MI.}^2 \times 19.8 \text{ SQ. MI.}$$

$$SPILLWAY CAPACITY \text{ AT W.S. ELEV. } 96.2$$

$$\text{SOUTH SPILLWAY CAPACITY} = (3.33)(EFFECTIVE LENGTH \times HEAD)^{\frac{3}{2}}$$

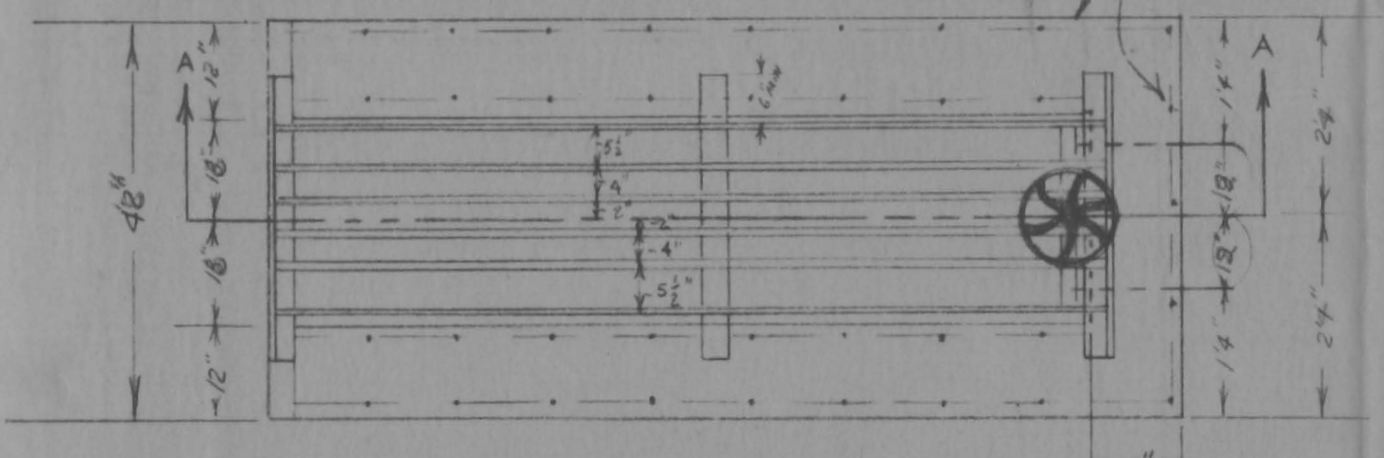
$$918 \text{ C.F.S.} = (3.33)(150)(11.5)^{\frac{3}{2}}$$

$$\text{NORTH SPILLWAY CAPACITY} = (3.33)(EFFECTIVE LENGTH \times HEAD)^{\frac{3}{2}}$$

$$1332 \text{ C.F.S.} = (3.33)(400)(1)^{\frac{3}{2}}$$

$$TOTAL = 2250 \text{ C.F.S.}$$

USE $\frac{3}{8}$ " REINFORCING STEEL AT 1 FOOT CENTERS ON ALL SIDES OF STRUCTURE 2 INCHES FROM SURFACE

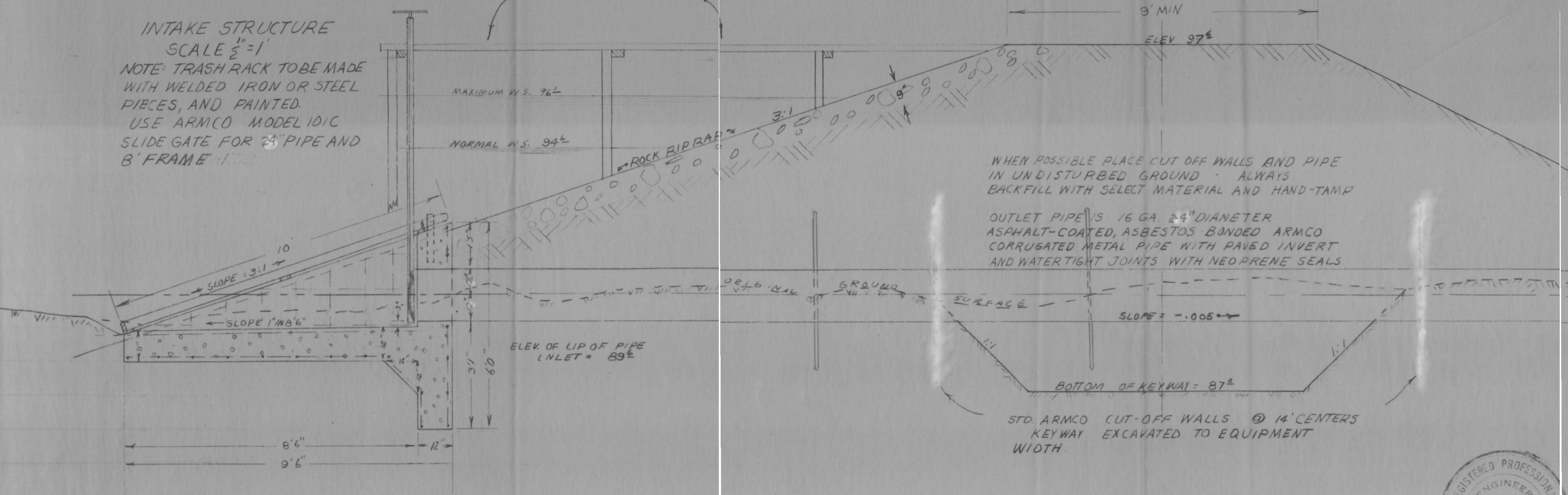


PLAN VIEW

INTAKE STRUCTURE
SCALE $\frac{1}{2}"=1'$

NOTE: TRASH RACK TO BE MADE WITH WELDED IRON OR STEEL PIECES, AND PAINTED.
USE ARMCO MODEL 101C SLIDE GATE FOR 24" PIPE AND 8' FRAME

WALK TO BE CONSTRUCTED WITH MATERIALS AVAILABLE

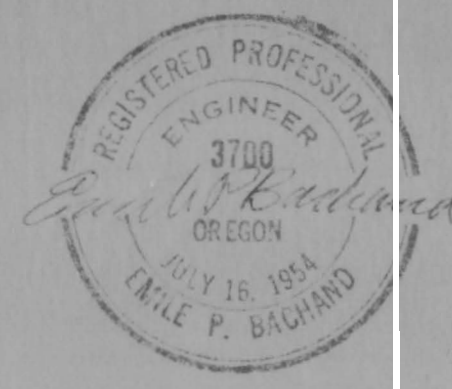


SEC. A-A

SECTION OF DAM AT E OUTLET WORKS
 $\frac{1}{2}"=1'$



RABBIT VALLEY RESERVOIR
SCALE 1" = 500'



CERTIFICATE
I, EMILE P. BACHAND OF PRINEVILLE, OREGON DO HEREBY CERTIFY THAT THESE PLANS WERE MADE IN ACCORDANCE WITH AN ACTUAL SURVEY MADE BY ME IN NOVEMBER 1960

APPROVED, Apr. 20, 1961
Lewis G. Stanley
STATE ENGINEER

RECEIVED
APR 11 1961
STATE ENGINEER
RECEIVED
FEB 27 1961
STATE ENGINEER
SALEM, OREGON

RABBIT VALLEY DAM & RESERVOIR

SCALE: AS SHOWN	APPROVED BY: <i>Emile P. Bachand</i>	DRAWN BY: BT
DATE: 27/1/60	PLANS FOR DAM AND PERTINATE STRUCTURES	
EMILE P. BACHAND PRINEVILLE, OREGON	CONSULTING ENGINEER PHONE HI 7-7651	DRAWING NUMBER