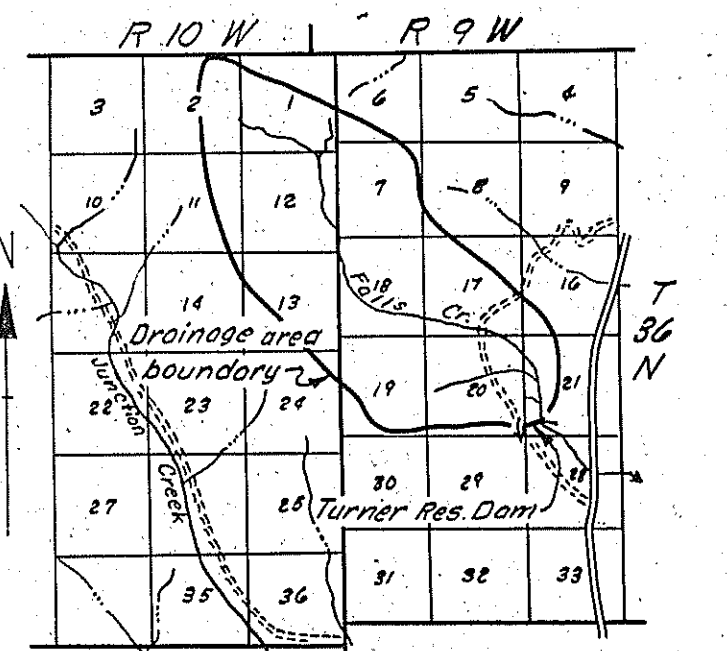


TABLE OF QUANTITIES

Item No.	Item	Unit	Quantity
1.	Compacted earth fill (Class B-2) in dam and spillway dike	cu.yd.	28,644
2.	Compacted earth fill (Class B-2) in cutoff and pipe trenches	cu.yd.	2,902
3.	Excavation:		
	Emergency spillway	cu.yd.	7,043
	Cutoff trench	cu.yd.	2,651
	Pipe trench	cu.yd.	251
	Outlet ditch	cu.yd.	435
	Structural	cu.yd.	5
4.	Concrete (Class B)	cu.yd.	9.11
5.	Steel bar reinforcement	lbs.	769
6.	Trash rock	ea.	1
7.	12" dia. 7ga. welded steel pipe, hot asphalt dipped	lin.ft.	154
8.	12" dia. steel slide gate with bronze facings and gate frame (Armco Model 20C-10 or equal) with gate lifting mechanism consisting of gate stem, oil retainer, pipe housing, stem sleeves, stem couplings, oil fill pipe and a handwheel lift (Armco Type H-18 or equal) with bronze nut and a 1 1/2" dia. standard galv. air vent pipe with fittings for 12" dia. steel slide gate, per detail	ea.	1
9.	Rock riprap on upstream face of dam	sqyd.	2,900
10.	Clearing and grubbing	lump sum	



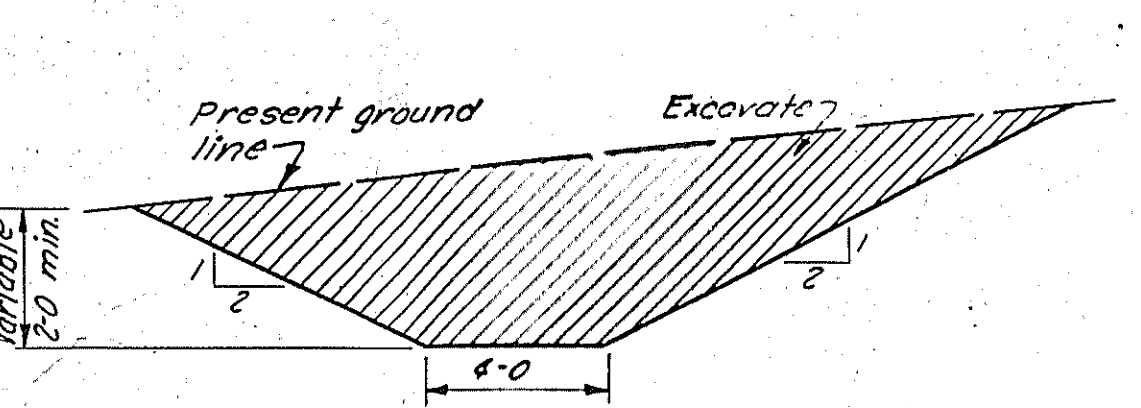
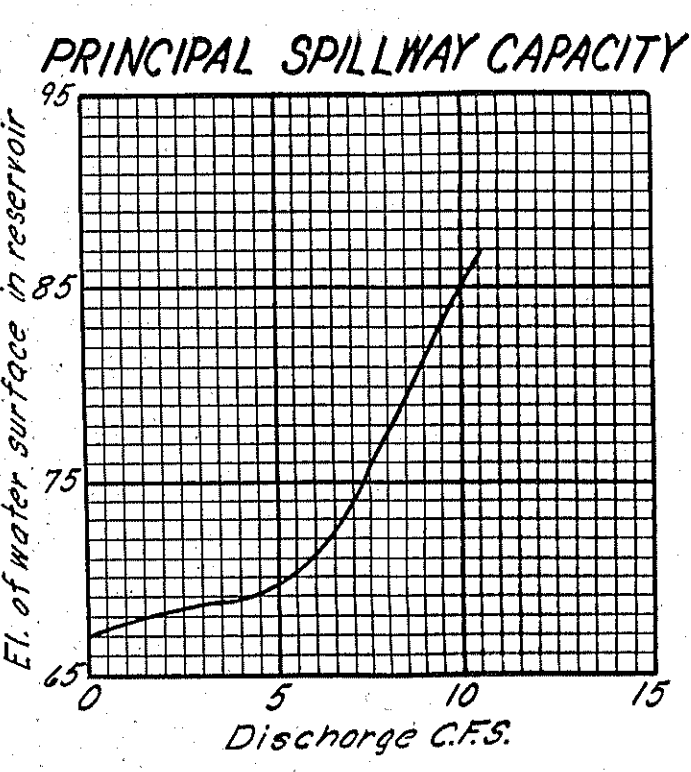
LOCATION MAP
Scale: 1"=2mi.

Drainage area 7.18 sq. mi.
Maximum expected runoff 1,046 c.f.s.
Approximate elevation 7,100 ft
Surface area of reservoir at crest of emerg. spwy. 42.07 acres
Capacity of reservoir at crest of emerg. spwy. 472.37 ac.ft.

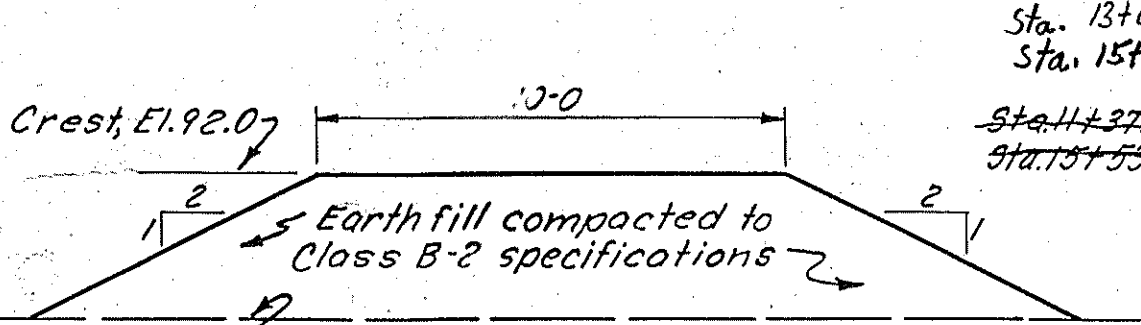
EMERGENCY SPILLWAY CAPACITY

Water surface El. in reservoir	Hp	Capacity, C.F.S.
87.0	0.0	0
87.5	0.5	17
88.0	1.0	72
88.5	1.5	165
89.0	2.0	300
89.5	2.5	470
90.0	3.0	680
90.5	3.5	940
91.0	4.0	1,250
91.5	4.5	1,580
92.0	5.0	2,000

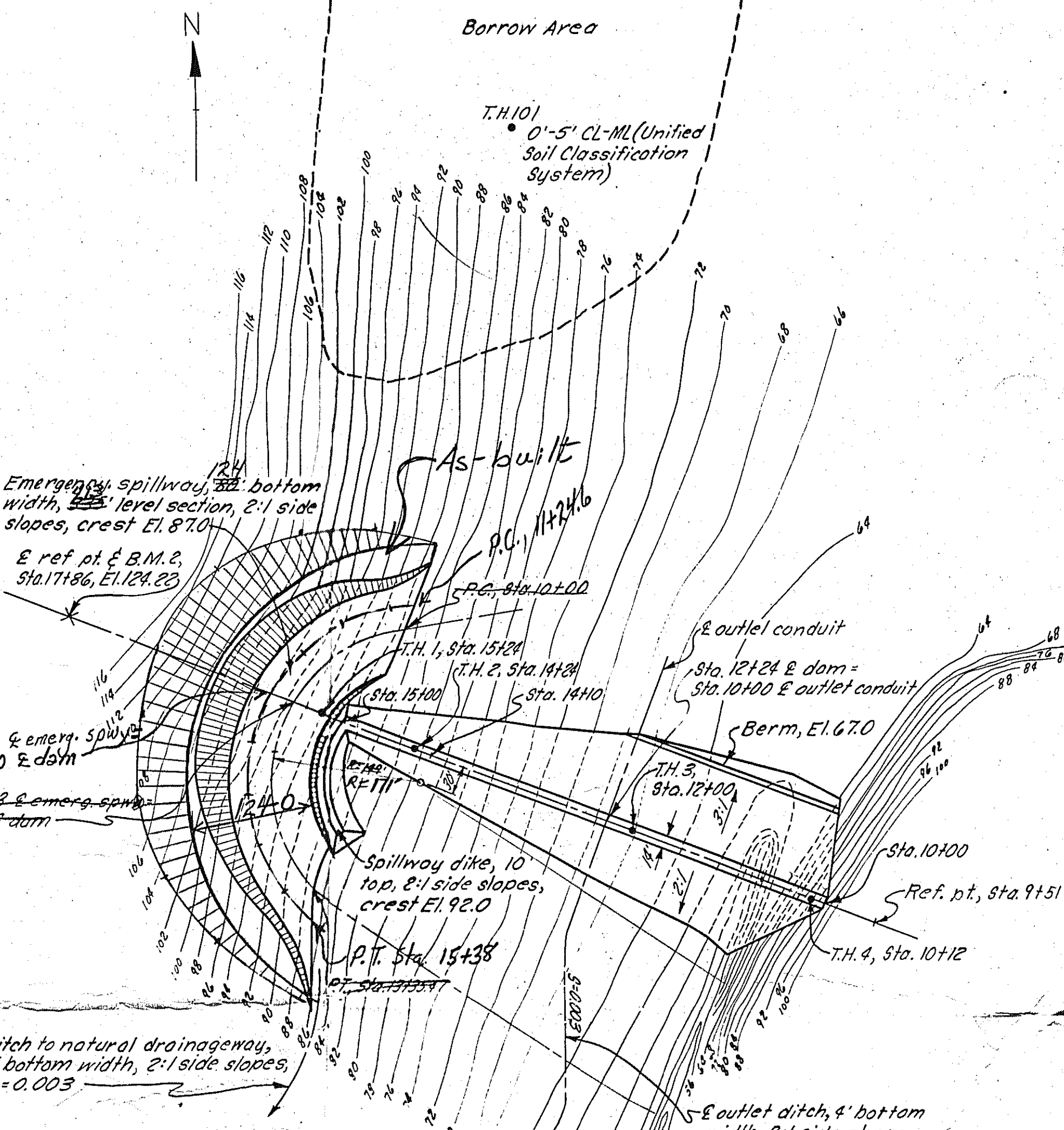
Spillway capacity computed on the basis of critical flow at the downstream end of the level section. Backwater curves were computed to give the depth of water in the reservoir above the spillway crest (Hp)



TYPICAL SECTION OF OUTLET DITCH
Scale: 1/2"=1'-0"



SECTION OF SPILLWAY DIKE
Scale: 1/2"=1'-0"



TOPOGRAPHIC MAP OF DAM SITE
Scale: 1"=100'

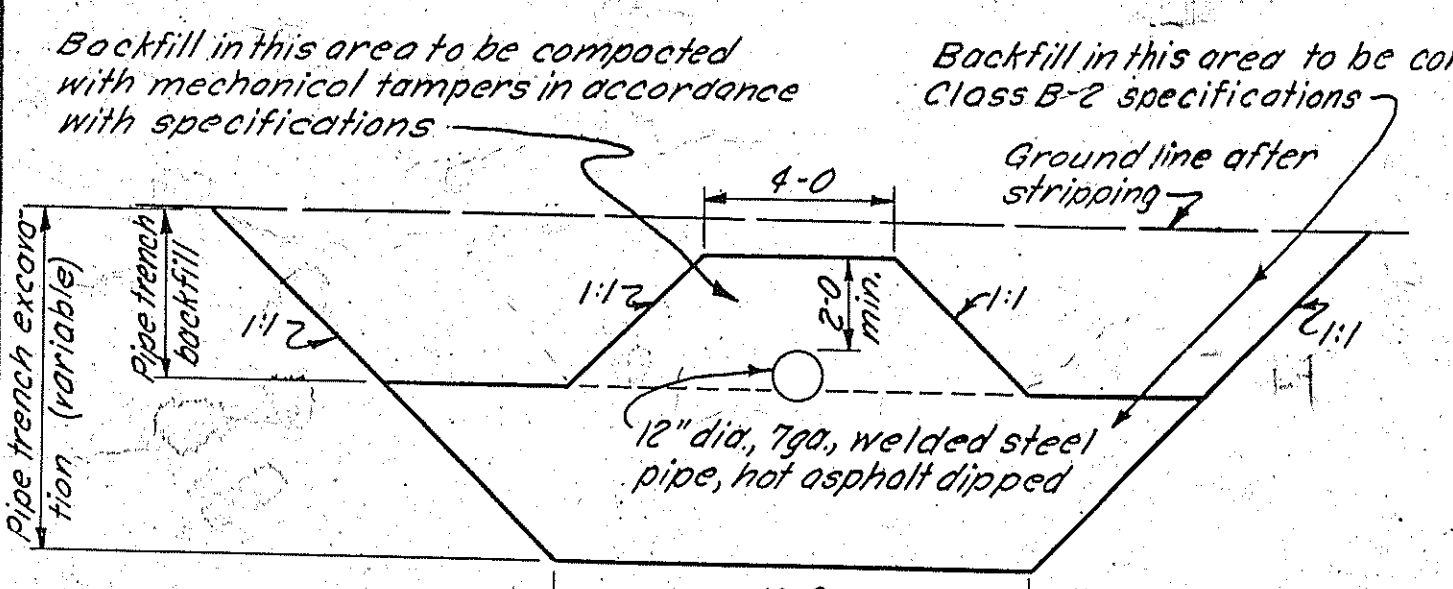
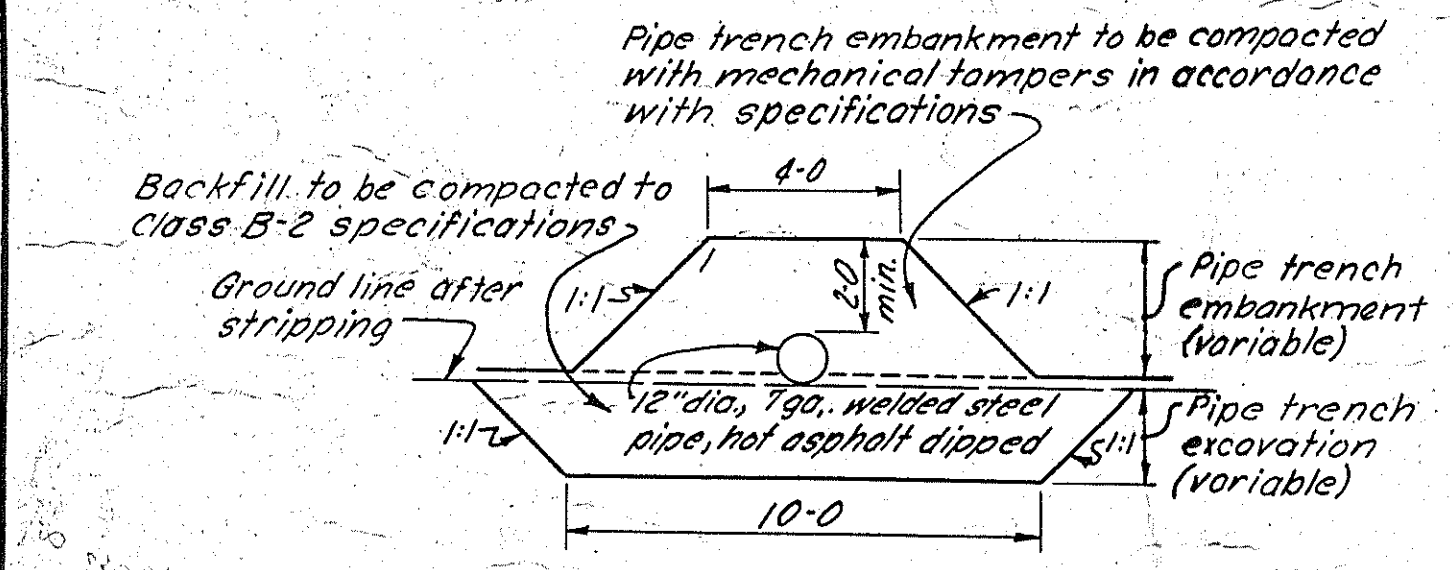
BAR SCHEDULE FOR PIPE SUPPORT

Mark	Size	Quant	Length	Total length	Type	A	B	C
D1	4	4	2-3	9-0	Str.			
D2	4	4	2-9	11-0	Str.			
D3	4	4	7-0	28-0	2	1-0	6-0	
D4	4	1	5-2	5-2	2	1-3	2-8	1-3

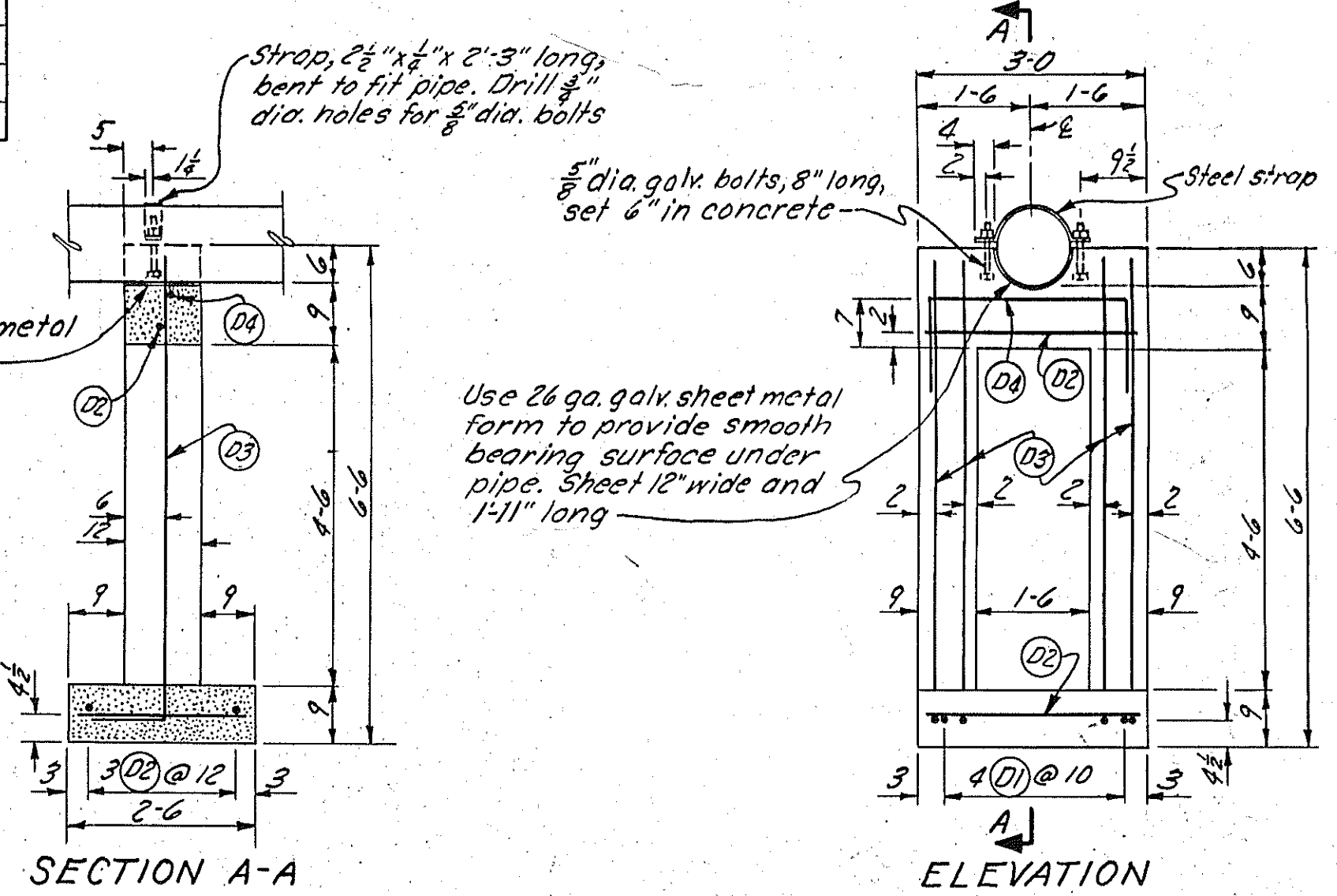
Total length bars = 53-2

QUANTITIES FOR PIPE SUPPORT

Item	Unit	Quantity
Concrete (Class B)	cu.yd.	.58
Reinforcing steel	lbs.	36
Structural excavation	cu.yd.	5



DIAGRAMS OF PIPE TRENCH EXCAVATION, BACKFILL AND EMBANKMENT
Scale: 1/4"=1'-0"



DETAILS OF PIPE SUPPORT
Scale: 1/2"=1'-0"

I hereby certify that these plans for the construction of the Turner Reservoir Dam were prepared under my direct supervision for the owners thereof.

Registered Engineer
Subscribed and sworn to before me this _____ day of _____, 196____
Notary Public
My commission expires on the _____ day of _____, 196____

_____, owner,
whose post office address is _____,
do hereby accept and approve these plans for the construction of the Turner Reservoir Dam.

Owner

PLANS FOR THE TURNER RESERVOIR DAM

LA PLATA COUNTY, COLORADO
IRRIGATION DIVISION NO. 3, WATER DISTRICT NO. 30
COURSES REFERRED TO-TRUE MERIDIAN
Scale: As shown

SHEET 1 OF 3 SHEETS

Approved on the _____ day of _____, 196____

State Engineer
by: _____ Deputy

Approved:
State Conservation Engineer, S.C.S.
U.S. Department of Agriculture, Soil Conservation Service