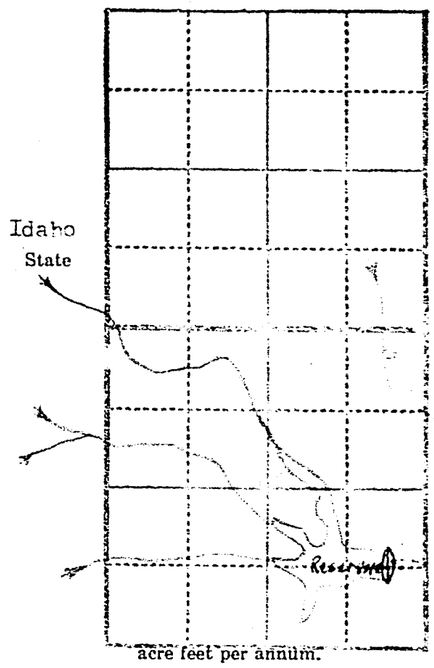
R-1074

APPLICATION FOR PERMIT

To Construct a Reservoir and Appropriate and Store
The Public Waters of the State of Idaho

Application No. R 36766
Permit No. R 1074



1. Name of Applicant: W. Maurice Tingey

Post office address: Weston County Franklin

I. If applicant is a corporation, give:

(a) Date and place of incorporation:

(b) Amount of Capital Stock: $

(c) Amount paid in: $

(d) Names and addresses of directors:

II. The financial resources of the corporation are:

(a) Cash on hand: $

(b) Treasury Stock: $

(c) Bonds to be issued: $

(d) Other resources:

2. Quantity of water to be stored: 172 acre feet per annum.

3. Source of water supply is an un-named stream (Creek) (River) (Spring), a tributary of Nash Hollow River.

4 The outlet of the proposed reservoir is located N. 34°30' E. 1700 feet, distant from the SE corner of Section 12, Township 16 S, Range 38 E., B.M. and is in the NE ¼ of SE ¼ of Section 12, Township 16 S, Range 38 E, B.M. County of Franklin
(bearing)

5. Fill out either (a) or (b).

(a) The reservoir is located in the channel of Un-named stream (Creek) (River).

(b) The reservoir is to be filled through a feeder canal, the point of diversion for which is located feet distant from the corner of Section, Township, Range, B.M., and is in the ¼ of ¼ of Section, Township, Range, B.M.; width at bottom feet, width at top feet, depth of water feet; average grade per mile feet; Capacity cubic feet per second
(bearing)

6. (a) The area of the high water line of the reservoir is 20.6 acres.

(b) The reservoir capacity is 172 acre feet.

7. Height of reservoir dam 26 feet, length at top 675 feet, length at bottom 137 feet, size of outlet 14 in. D- feet by feet. The dam is to be constructed of materials as follows: clay loam clay sandy clay & sands

(If height will exceed 10 feet, plans must be approved by Department of Reclamation, before beginning construction.)

8. (a) Will water stored in reservoir be diverted to canal or aqueduct, thence to land to be irrigated without commingling with natural flow of Nash Hollow & Tributary (Creek) (River)? Yes

(b) Water stored in reservoir will be carried in the channel of (Creek) (River) a distance of miles to point of diversion located feet, distant from the corner of Section (bearing)
Township, Range, B.M., and in the ¼ of ¼ of Section Township, Range, B.M.

9. (a) Area of watershed above dam site square miles.

(b) Estimated maximum flow of stream .63 cubic feet per second.

10. Water is to be used for Irrigation purposes.

11. If for mining, milling, power or manufacturing purposes give:

(a) Point of use of water feet, distant from Corner of Section, Township, Range
(bearing)
, B.M., and is in the ¼ of ¼ of Section, Township, Range, B.M.

(b) Amount of power generated: H.P., under feet head.

(c) Water is to be returned to (Creek) (River) (Spring) at a point feet
(bearing)
distant from the corner of Section, Township, Range, B.M. in the ¼ of ¼ of Section, Township, Range, B.M.

12. Water stored in accordance with this Permit will be carried to place of use through a canal heretofore constructed under the terms of Permit No. , which is hereby referred to and made a part hereof.

13. Kind of diversion works: canal and pipeline
(Dam, canal, flume, pipe, etc.)

14. Height of diversion dam: feet, length at top feet, length at bottom feet. The dam is to be constructed of materials as follows:

(If height will exceed 10 feet, plans must be approved by Department of Reclamation, before beginning construction.)

15. Size of headgate: Width feet, Height feet.

16. Diversion Canal: Width at bottom none feet, width at water line feet, depth of water feet, Dimensions of Flume
pipeline to be used 8 in.
Diameter of Pipe inches; Length of Conduit miles. Average grade per mile feet.

17. Estimated Cost of Works: Storage Works: $ 5500 Diversion Works: $ Pump & Pipe line $3000.00 est.

18. Time required for completion of work 5 years.

19. Time required for complete application of water to proposed beneficial use is 1 yr. years.

20. The land to be irrigated is described in the following tabulation:

(Give Irrigable acreage in each 40-acre subdivision.)

Twp.	Range	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
16 S	38 E	12			20	40									40	40	40	40	220
16 S	39E	18						20	20										40

Total Number of Acres to Be Irrigated 260

21. Existing rights and/or valid permits appurtenant to lands described above are A. 146 shares Twin Lakes Irr.Co water
B. 15 shares Weston Creek Irrs.Co. water

REMARKS:

BE IT KNOWN That the undersigned hereby makes application for permit to construct a reservoir and appropriate and store the public waters of Idaho as herein set forth, and that the enclosed map is hereby made a part of this application.

s/ W. Maurice Tingey, *Applicant.*

By , *Agent.*

Date of first receipt at Department of Reclamation: 9:00 A.M. June 9, 1960
Returned to applicant for correction: 6-10-60
Corrected application received: 8-9-60

APPROVAL OF STATE RECLAMATION ENGINEER

The number of this permit is R 1074

Recorded in book R 5, page 1074. Approved August 11, 1960

This is to certify that I have examined the within application for a permit to construct a reservoir and appropriate and store the public waters of the State of Idaho, and hereby approve the same, subject to the following limitations and conditions:

Bond in the sum of $, to be filed on or before

Work to begin on or before October 11, 1960 and to continue diligently and uninterruptedly to completion, unless temporarily interrupted by circumstances over which the permit holder has no control.

One-fifth of the work above specified to be completed on or before February 11, 1963

The whole of said work to be completed on or before August 11, 1965

Beneficial use of water stored in accordance herewith, to be made on or before August 11, 1966

Witness my hand this 11th day of August, 19 60.

s/ GEO. N. CARTER
State Reclamation Engineer.

IN TESTIMONY WHEREOF, We, ROBERT E. SMYLIE, Governor of the State of Idaho, and ARNOLD WILLIAMS, Secretary of State of the State of Idaho, have caused this instrument to be executed in the name of the State of Idaho, and caused the Great Seal of the State of Idaho to be hereunto affixed, this 11th day of August, 1960.

COUNTERSIGNED

By s/ ARNOLD WILLIAMS
Secretary of State.

STATE OF IDAHO

By s/ ROBERT E. SMYLIE
Governor.

(SEAL)

Application for Amendment
LAND LIST
Permit No. R-1074

Comes now W. Maurice Tingey, Weston, Idaho, and represents to the State Reclamation Engineer of the State of Idaho:

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho, No. R-1074, and requests that the list of lands to be irrigated, as described in said permit, be changed to read as follows:

S½NE¼, SE¼, Sec. 12; N½NE¼, NE¼NW¼, Sec. 13, T. 16 S., R. 38 E., B. M., making a total of 256 acres.

That an additional amount of water is not asked for, and that the rights of others will not be adversely affected by such change.

Signed at Weston, this 30 day of June, 1962

s/ W. MAURICE TINGEY

Date of Receipt at office of Department of Reclamation July 2, 1962

APPROVAL OF STATE RECLAMATION ENGINEER

I, RALPH W. THOMAS, Deputy State Reclamation Engineer of the State of Idaho, hereby approve the above and foregoing application for amendment to Permit to Appropriate the Public Waters of the State of Idaho, No. R-1074. This approval constitutes a new permit, and is issued as an amendment to the original permit, to which it refers, and of which it becomes a part, and said application is approved only insofar as the rights of others will not be adversely affected thereby.

s/ RALPH W. THOMAS
Deputy State Reclamation Engineer

Recorded: July 3, 1962

Permit No. R-1074
CERTIFICATE OF COMPLETION OF WORKS

TO ALL WHOM IT MAY CONCERN:

This is to certify that W. MAURICE TINGEY of Weston, County of Franklin, and State of Idaho, the holder of Permit No. R-1074, issued upon Application No. 36766, bearing date of priority of June 9, 1960 authorizing the construction of a reservoir, with the right to appropriate and store 172 acre feet per annum of the waters of an unnamed stream, a tributary of Nash Hollow River, in the County of Franklin, State of Idaho, for irrigation purposes, has fully complied with the provisions of the laws of the State of Idaho relating to the proof of completion of the works set out and described in said Permit; that said works include a dam and reservoir adequate for the storage of 172 acre feet of water per annum, with adequate diversion works and conduit to the reservoir, and a conduit capable of conducting said water to the place of intended use; that the point of outlet of said reservoir is located in the NE¼ of the SE¼ of Section 12, Township 16 S., Range 38 E. B. M., and that the place of use, or the lands proposed to be irrigated by the use of said water, are described as follows, to-wit:

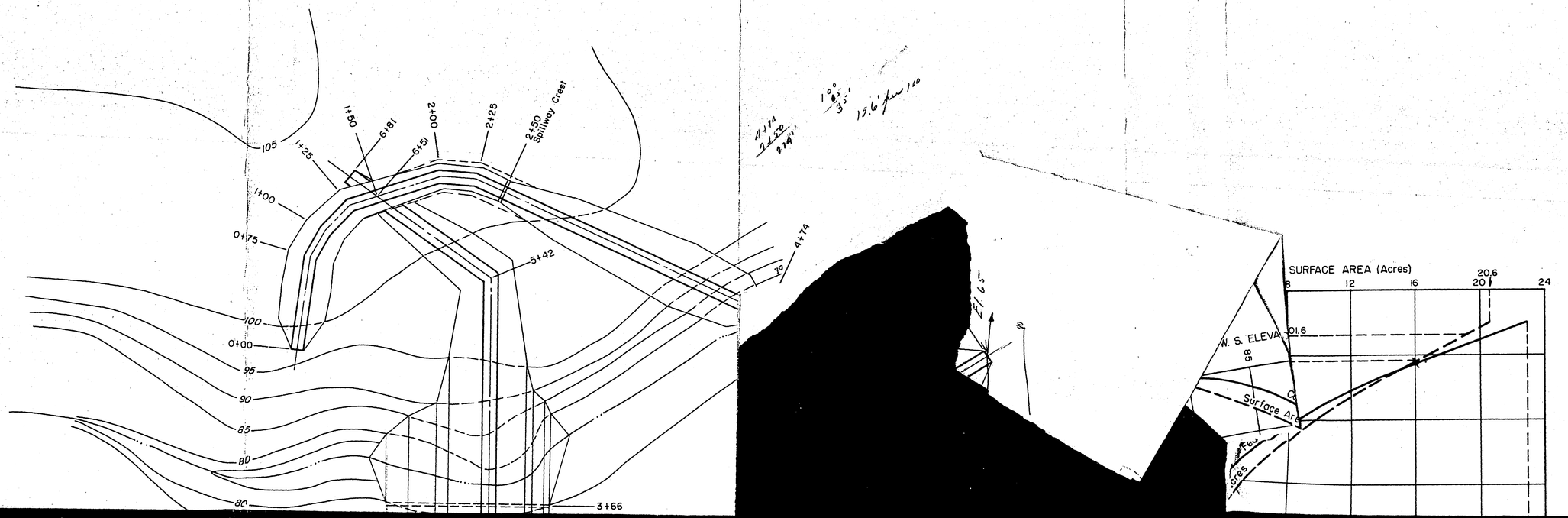
S½NE¼, SE¼, Sec. 12; N½NE¼, NE¼NW¼, Sec. 13, T. 16 S., R. 38 E., B. M.

Witness my hand this 2nd day of July, 1962.

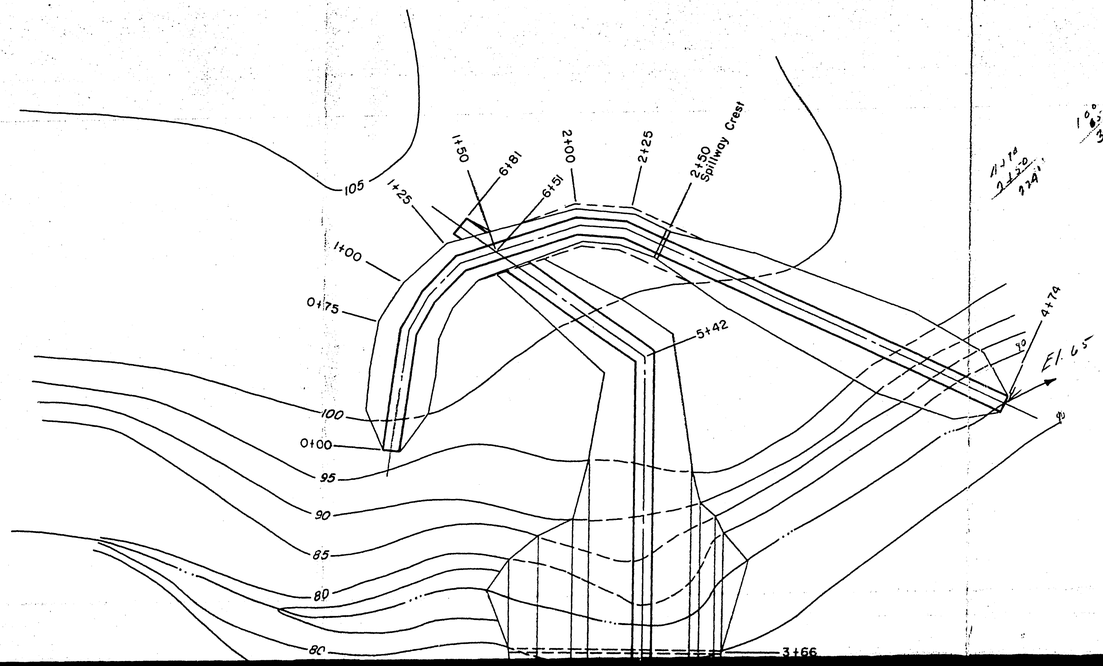
s/ RALPH W. THOMAS
Deputy State Reclamation Engineer

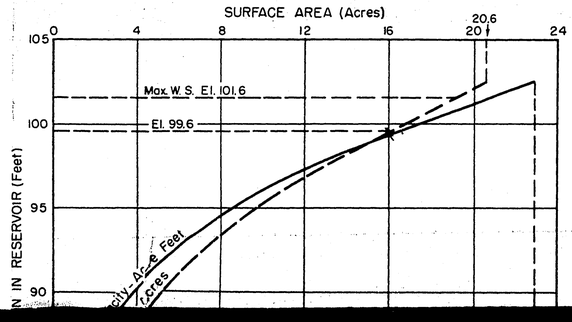
Proof of Completion of Works Made: June 27, 1962

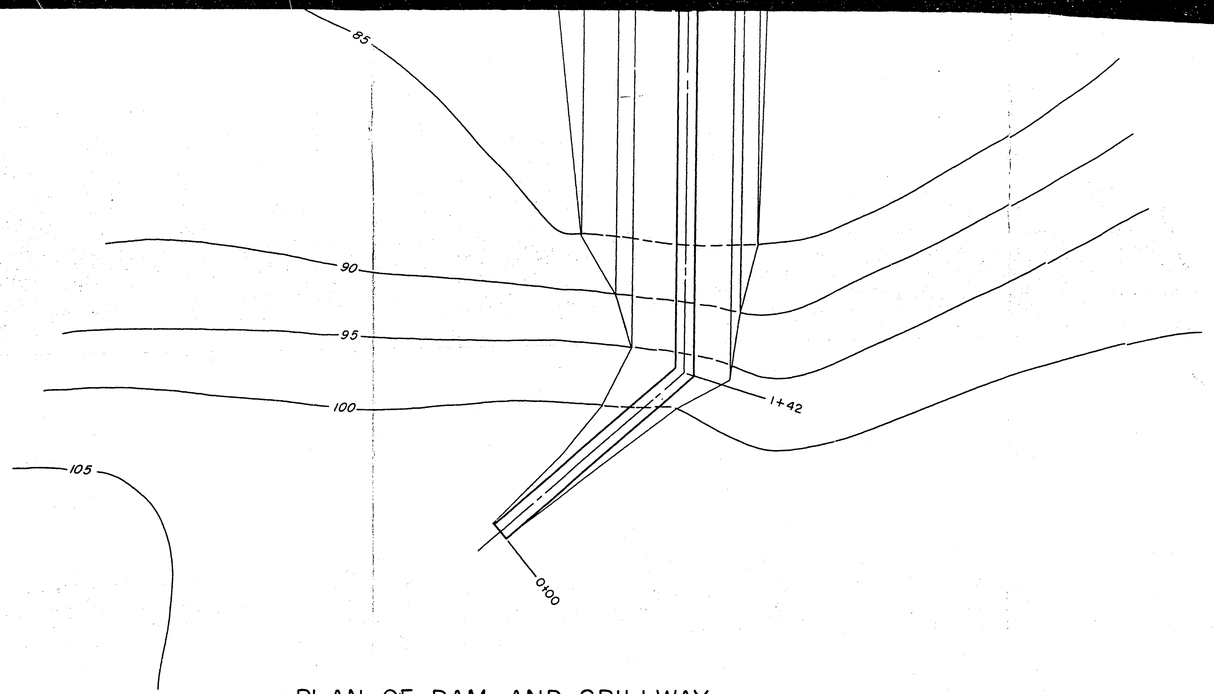
LICENSE ISSUED FOR 8.33 acre ~~SEC.~~ FT.
Page 7511



105
1+25
1+50
6+81
6+51
2+00
2+25
2+50
Spillway Crest
1+00
0+75
5+42
4+74
100
0+00
95
90
85
80
80
3+66
SURFACE AREA (Acres)
8
12
16
20
20.6
24
W. S. ELEVA
01.6
85
Surface Are

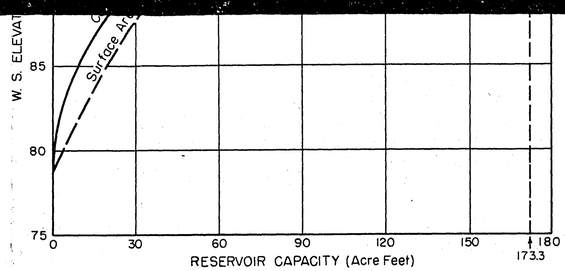

105
1+25
1+50
6181
6+51
2+00
2+25
2+50
Spillway Crest
1+00
0+75
5+42
4+74
El. 65
0+00
100
95
90
85
80
3+66


SURFACE AREA (Acres)
0
4
8
12
16
20.6
20
24
105
100
95
90
Max. W. S. El. 101.6
El. 99.6
Capacity-Acre Feet
Acres



PLAN OF DAM AND SPILLWAY

SCALE: 1"=50'



STORAGE CAPACITY CHART

Permit Map No. R-1074
As Approved
OCT 5 1960
GEO. N. CARTER
State Reclamation Engineer

"I am hereby submitting for approval this plan as an officer of the United States Government authorized to approve and submit such plans."

Meador H. Wilkins
State Soil Conservation Engineer, Soil Conservation Service

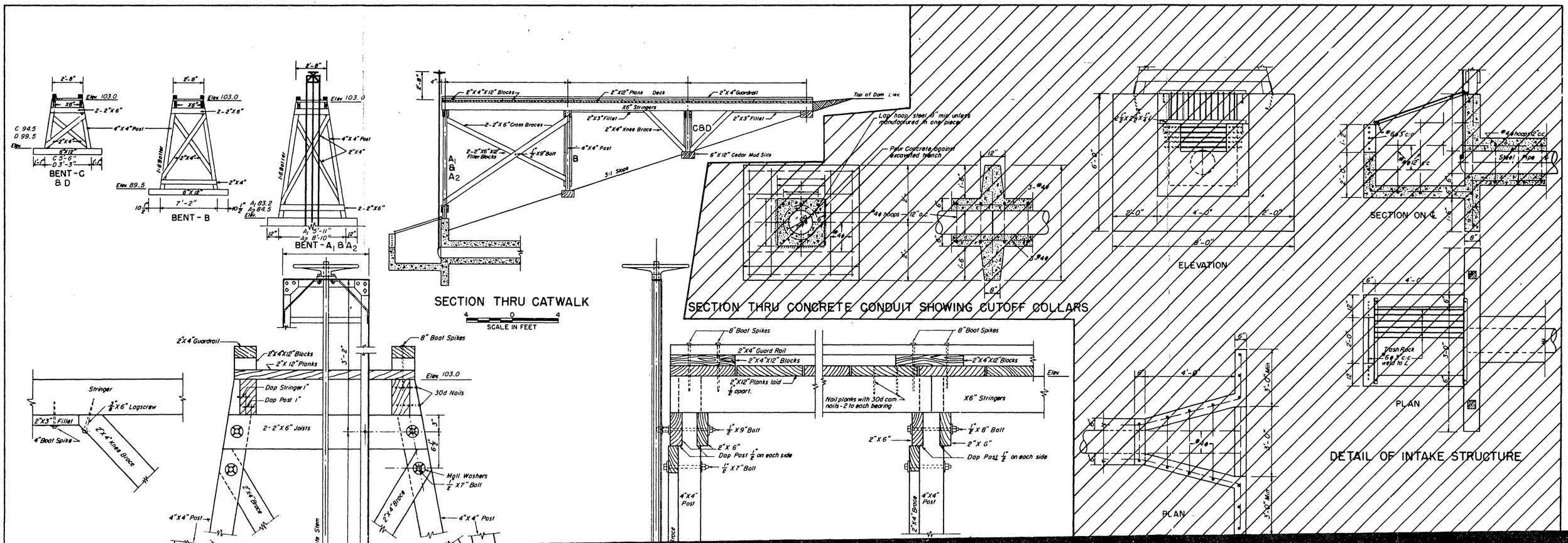
APPROVED
OCT 5 1960
Geo. N. Carter
STATE RECLAMATION ENGINEER

M. TINGEY DAM ENLARGEMENT

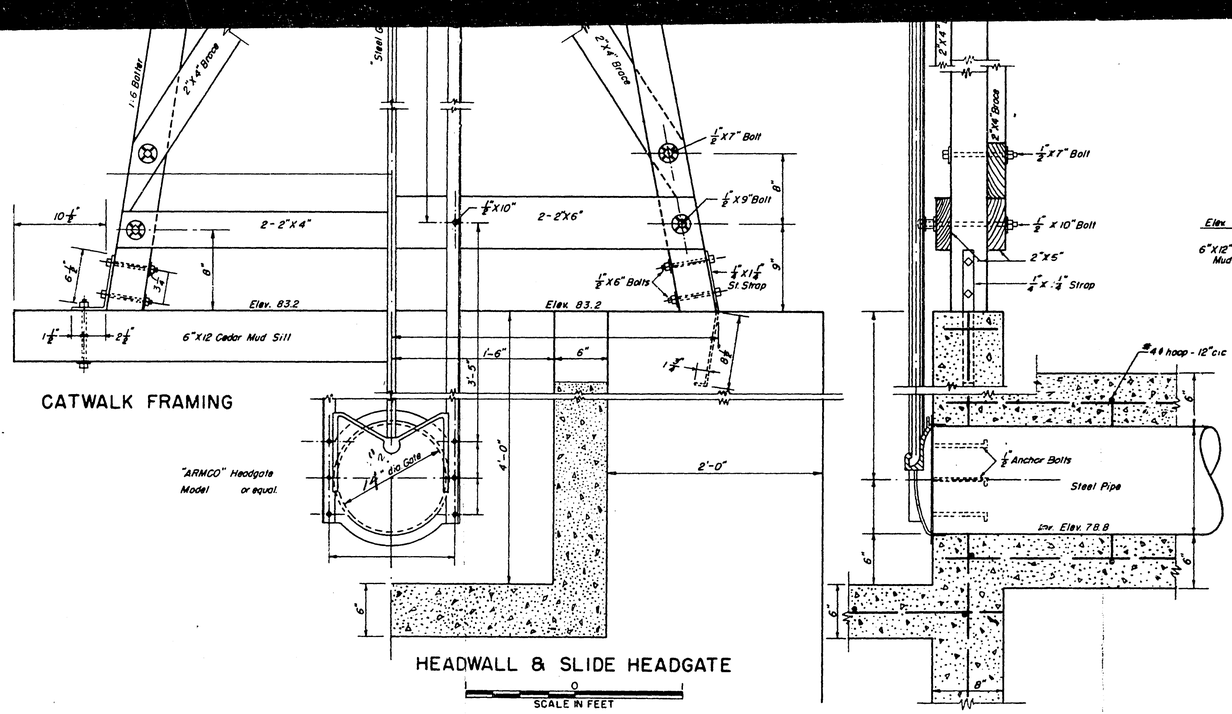
FRANKLIN S. C. D., FRANKLIN COUNTY, IDAHO

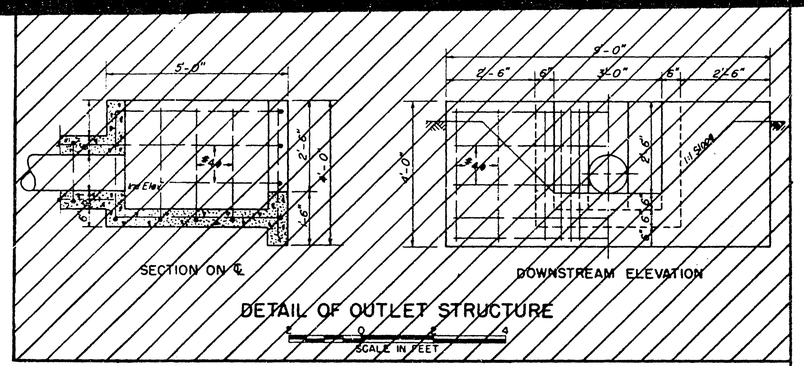
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed V.G. King	Date 8-60	Approved Meador H. Wilkins	
Drawn V.G. King	8-60	Title S.C. Engineer, S.C.S., Idaho	
Traced T.H.B.	9-60	Title	
Checked M.H.W.		Sheet No. 2 of 4	Drawing No. 7-E-16475



BENT - C & D
BENT - B
BENT - A1 & A2
SECTION THRU CATWALK
SCALE IN FEET
SECTION THRU CONCRETE CONDUIT SHOWING CUTOFF COLLARS
ELEVATION
SECTION ON ℄
PLAN
DETAIL OF INTAKE STRUCTURE
Top of Dam Elev.
Lap hoop steel 8" min. unless manufactured in one piece
Pour Concrete against excavated trench
Steel Pipe
Trash Rack
Stringer
Dap Stringer 1"
Dap Post 1"
2-2"X6" Joists
30d Nails
Mall. Washers
8" Boat Spikes
2"X4" Guard Rail
2"X4"X12" Blocks
2"X12" Planks laid 1/2" apart.
Nail planks with 30d com. nails - 2 to each bearing
X6" Stringers
Dap Post 1/2" on each side





R-1074
Permit No. R-1074
As Approved
OCT 5 1960
GEO. N. CARTER
State Conservationist

APPROVED
OCT 5 1960
STATE RECLAMATION ENGINEER

"I am hereby submitting for approval the plans as an officer of the United States Government authorized to approve and submit such plans."

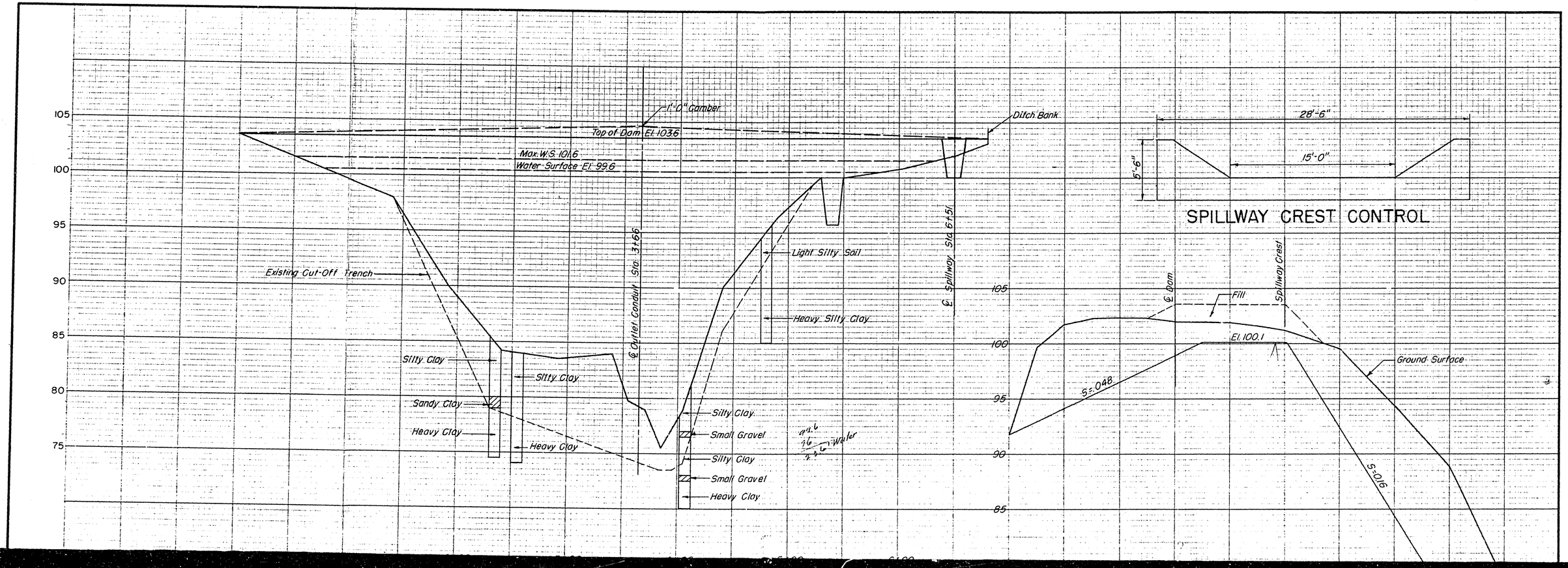
Meadex H Wilkins
State Soil Conservation Engineer, Soil Conservation Service

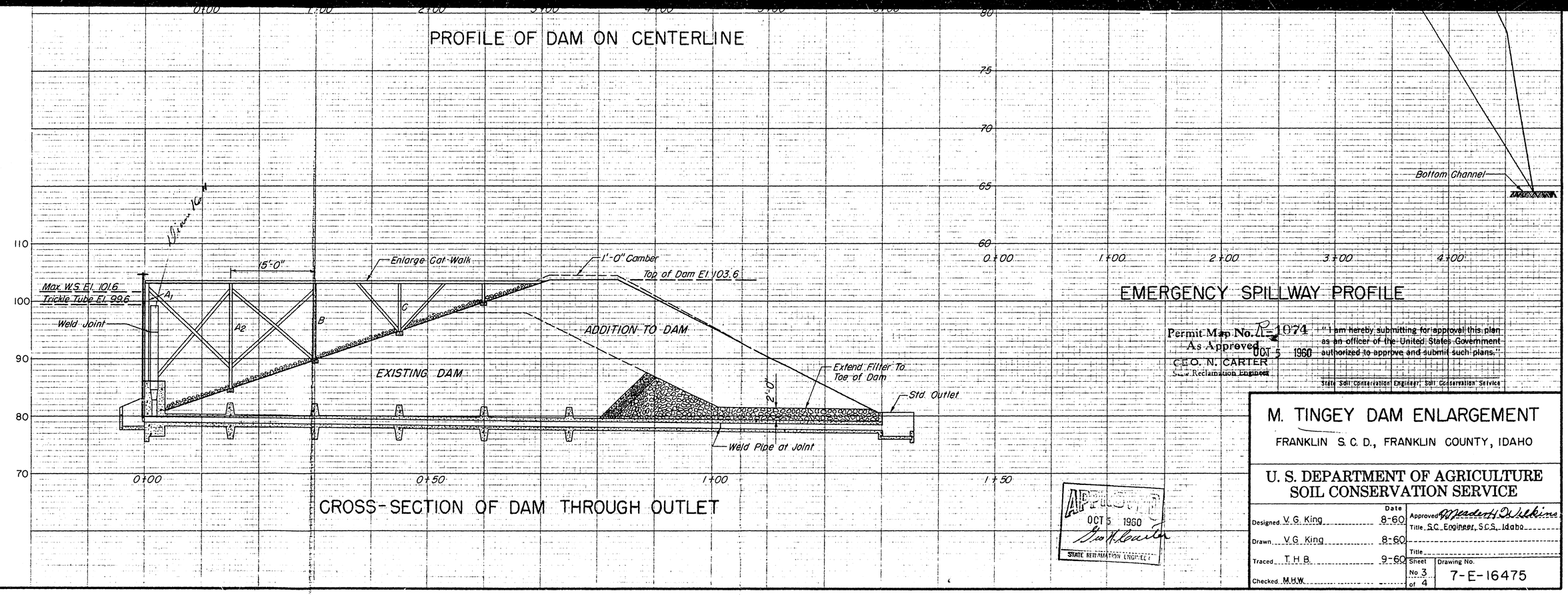
M. TINGEY DAM ENLARGEMENT

FRANKLIN S.C.D., FRANKLIN COUNTY, IDAHO

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed V. G. King	Date 8-60	Approved: Meadex H Wilkins, State S.C. Engineer, SCS, Idaho	
Drawn V. G. King	8-60		
Traced T.H.B.	9-60	Sheet No. 4 of 4 sheets	Drawing No. 7-E-16475
Checked M.C.W.			


105
100
95
90
85
80
75
1'-0" Camber
Top of Dam El. 1036
Max. W.S. 1016
Water Surface El. 996
Ditch Bank
Existing Cut-Off Trench
℄ Outlet Conduit Sta. 3+66
℄ Spillway Sta. 6+15
Light Silty Soil
Heavy Silty Clay
Silty Clay
Silty Clay
Sandy Clay
Heavy Clay
Heavy Clay
Silty Clay
Small Gravel
Silty Clay
Small Gravel
Heavy Clay
Water
28'-6"
15'-0"
5'-6"
SPILLWAY CREST CONTROL
℄ Dam
Fill
Spillway Crest
El. 100.1
Ground Surface
S=.048
S=.016



Permit Map No. R-1074
As Approved OCT 5 1960
CEO. N. CARTER
State Reclamation Engineer

"I am hereby submitting for approval this plan as an officer of the United States Government authorized to approve and submit such plans."

State Soil Conservation Engineer, Soil Conservation Service

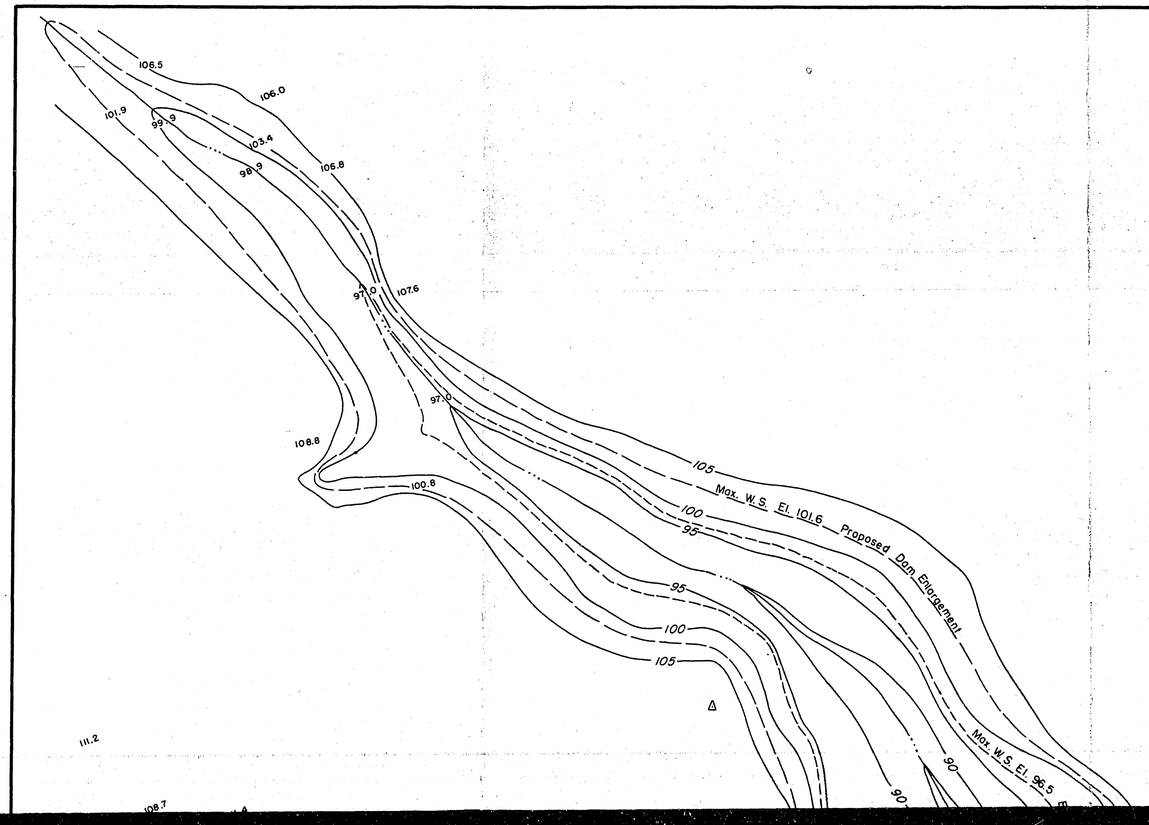
APPROVED
OCT 5 1960
Geo. N. Carter
STATE RECLAMATION ENGINEER

M. TINGEY DAM ENLARGEMENT

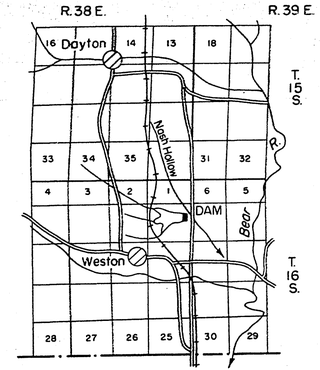
FRANKLIN S. C. D., FRANKLIN COUNTY, IDAHO

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

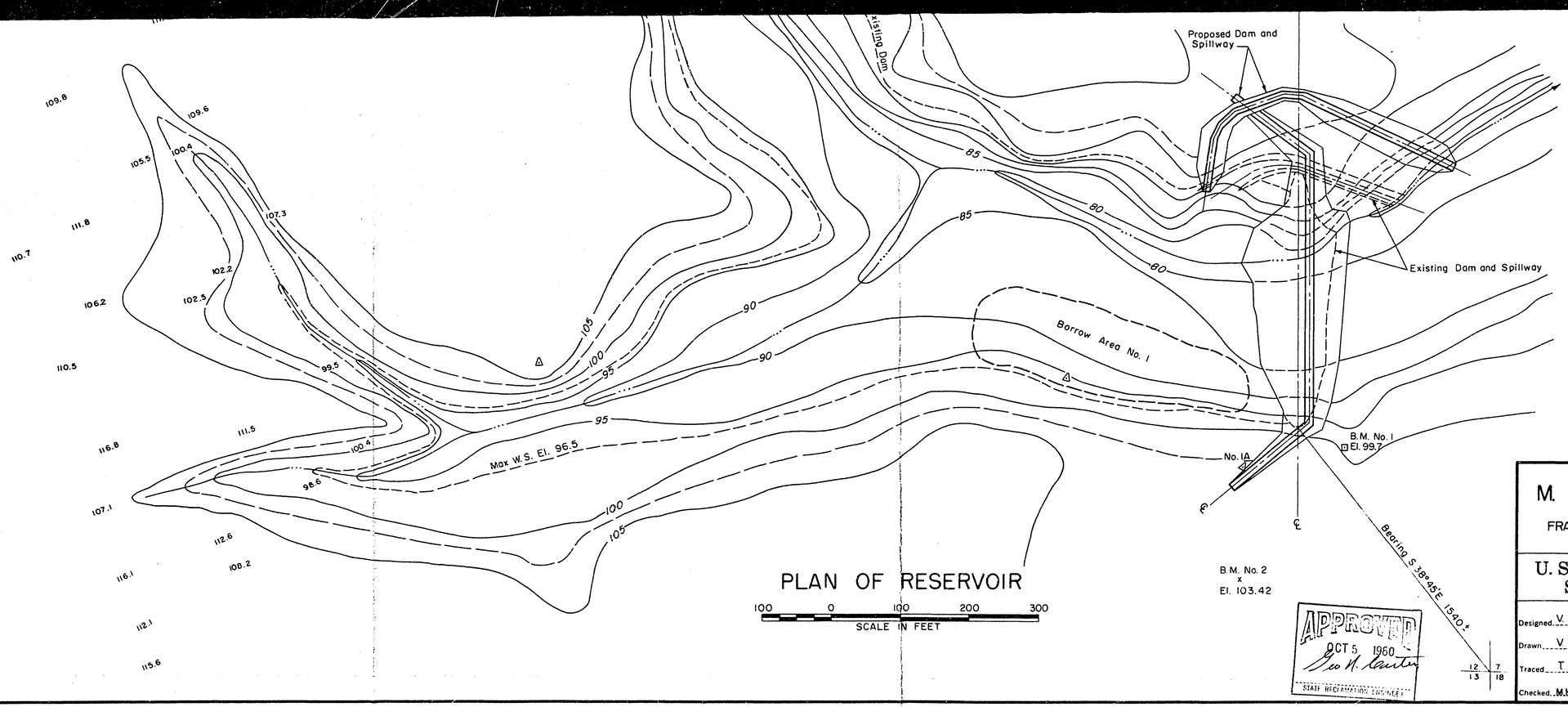
		Date		
Designed	V. G. King	8-60	Approved	Maurice H. Wilkins
Drawn	V. G. King	8-60	Title	S.C. Engineer, S.C.S. Idaho
Traced	T. H. B.	9-60	Title	
Checked	M.H.W.		Sheet No. 3 of 4	Drawing No. 7-E-16475



N



LOCATION MAP



PLAN OF RESERVOIR

100 0 100 200 300

SCALE IN FEET

Permit Map No. R-1074
As Approved
OCT 5 1960
GEO. N. CARTER
State Reclamation Engineer

"I am hereby submitting for approval this plan as an officer of the United States Government authorized to approve and submit such plans."

Meader H. Wilkins
State Soil Conservation Engineer, Soil Conservation Service

APPROVED
OCT 5 1960
Geo N. Carter
STATE RECLAMATION ENGINEER

12 7
13 18

M. TINGEY DAM ENLARGEMENT

FRANKLIN S.C.D., FRANKLIN COUNTY, IDAHO

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

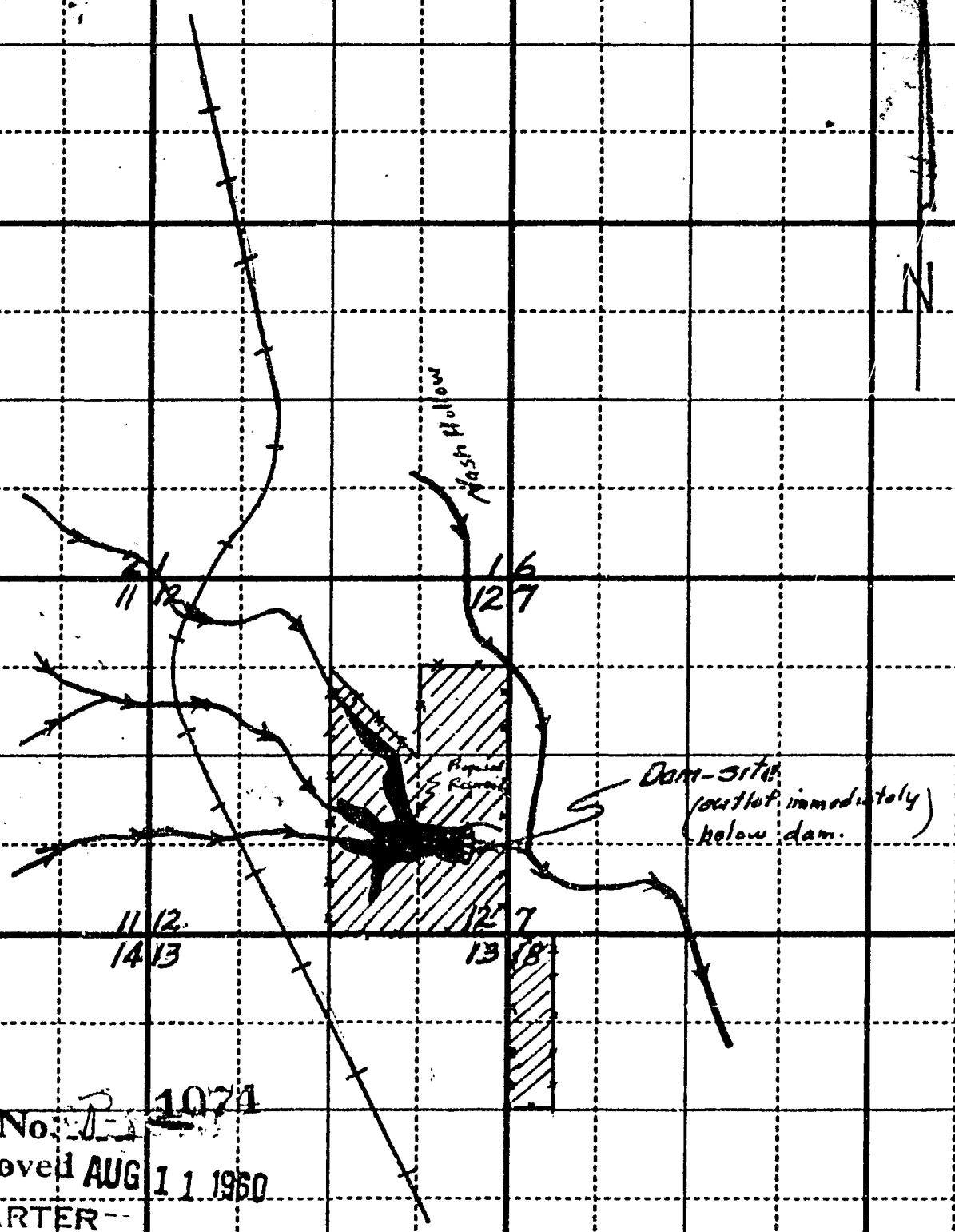
	Date		
Designed V.G. King	8-60	Approved Meader H. Wilkins	
Drawn V.G. King	8-60	Title S.C. Engineer, SCS, Idaho	
Traced T.H.B.	9-60	Title	
Checked M.H.W.		Sheet No. 1 of 4	Drawing No. 7-E-16475

NAME OF APPLICANT W. Maurice Tingey

Form No. 0

R.38E (Boise Meridian)

T.16S.



N

Permit Map No. R- 1071
As Approved AUG 11 1960
GEO. N. CARTER
Reclamation Engineer

[redacted]

---- Lands to be Irrigated

NOTE - Reservoir area not to scale - High water line will cover only 10 acres.

SCALE: 2 Inches Equal 1 Mile. Draw Plan in Ink.

Drawn - 28 Aug 58 -

R-1071

JUN 9 1960
Department of Reclama

Dear Sirs:

I have filled out this application as far as I am able. In as much as I wish to enlarge the present Dam — I am sending a map of the Damsite as it is at the present time. It is much better than I could draw.

Sincerely
H. Maurice Tingey

R-1044

June 10,1960

Re: Application No. R-36766

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

Returned herewith is your application for permit to construct a storage dam with receipt no. 30152 for fees.

Kindly complete 6 (a) & (b) and 7 showing the area of the proposed high water line of the reservoir and the total capacity of the reservoir. Under 7 show answers to the questions. Your Permit No. R-945 shows 10 acre water area and 78 acre feet capacity.

You show works as "canal and pipe line" It seems you will have to pump at least some of the water.

Complete questions 16, 17, 18 and 19 and return the application within 60 days and it will be processed.

Very truly yours,

GEO. H. CARTER
State Reclamation Engineer

By:

(Mrs.) Edna P. Rule
Chief Clerk

EPR:sw

R-1094

August 5, 1960

Re: Application No. R-36766

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

Your application for permit was returned to you June 10th for further information.

The application must be returned August 10, 1960 or the application will be cancelled, according to State Statutes. Any application received after that date will be a new application requiring the regular fee and the date of priority will be date of receipt of such application.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

By:

(Mrs.) Edna P. Rule
Chief Clerk

RT:
EPR:ew

R-1074

RT

August 24, 1960

Re: Permit No. R-1074

Mr. W. Maurice Tingey,
Weston, Idaho.

Dear Mr. Tingey:

We enclose Permit No. R-1074 in which we direct your attention to the limitations and conditions as given on the fourth page under approval of the State Reclamation Engineer.

Departmental Receipt No. 30152, which was issued covering payment in the amount of $5.00 for the filing fee of the above mentioned permit, was given to you while in our office.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

(Mrs.) Edna P. Rule
Chief Clerk

Encl.
EPR:pmk

R-1074

Permit R-1074

REPORT

on

ENLARGEMENT DESIGN OF AN EARTHFILL DAM

for

STORAGE OF IRRIGATION WATER

Maurice W. Tingey
Franklin Soil Conservation District
Weston, Idaho

by
Verl G. King
Engineering Specialist

R-1074

REPORT on DESIGN OF EARTH FILL DAM
ENLARGEMENT
for

STORAGE OF IRRIGATION WATER

Maurice W. Tingey

Weston, Idaho

GENERAL INFORMATION

The Maurice Tingey Dam is located near Weston, Idaho in the Franklin SCD, SE ¼, SE ¼, Section 12, T16S, R39E. B.M. This dam is to be enlarged to the maximum elevation for which the site will permit. This will increase the height of the dam 5.6 feet to a total height of 24.6 feet. The storage in the reservoir at the trickle tube crest will be increased from 60 A/ft to 126 A/ft. The surface area of the reservoir is increased from 9.2 Ac to 16.2 Ac.

Mr. Tingey has secured a permit from the State Reclamation office to store this additional amount of water. The water is to be used as supplemental irrigation water on the Tingey farm. The water is pumped from the reservoir and applied to the land through a sprinkling system

For information on the Geology of this area and dam site, soil mechanics testing evaluation and Hydrology, see the original report on this dam by Gene R. Fiala and H. J. Woodward, dated February 1955.

DESIGN OF THE DAM SECTION

From the information contained in the original design, from field surveys and field observations of the existing dam, the following design section for the dam is determined.

Data From The Materials Testing Laboratory:

Group symbol of soil: CL-2

Description: Very fine silty clay, medium plasticity.

Atterberg Limits: Liquid Limit - 39
Plastic Limit - 17

From IEHB Sec. 7:

Table 2

Behavior Group : VI

R-1024

Table 3

Dilitance -- None to slow
DryStrength -- Medium to high
Plasticity -- Medium
Shine -- Shiny
Organic Odor - None to slight

Table 4

Relative resistance to failure
Shearing 5
Piping 2
Cracking 2

Permeability - Low
Compressibility - Medium to high
Compaction - Good to fair

Table 5

Characteristics of foundation materials

Group symbol	CL
Shear strength	Medium
Sensitivity to shock	None
Compressibility	Medium
Permeability	Medium - low
Seepage Control Req.	None

Table 6

Evaluation of site and foundation conditions

Site type	A
Compressibility	Slight

A change is made here from the original design. Since this site was under the old lake Bonneville it is ascertained that this material is presently compressed to a large degree. It is very unlikely that any additional compression will occur under the load of this dam. Upon observing the present dam no indications are present to show signs of settling.

Permeability	Pervious

The present dam shows signs of seepage along the toe. Indicating that the foundation is somewhat pervious.

Foundation type	2b

Table 7

Selection of basic design type

Site type	A
Foundation type	2b
Homogenius section	

R-10?

Material group	VI
Design type	2

By adding fill to the back side of the present dam which is design type 1, the dam design can be revised to design type 2.

Dimensions of the Dam Section:

Table 7

Dam Slopes

Upstream	3:1
Downstream	2:1

Depth Water Upstream

Elev. top dam	103.6	(Spillway crest El. 100 $\frac{1}{2}$
Elev. reservoir floor	79.0	trickle tube El. 99 $\frac{0}{2}$)
Difference	24.6 ft.	

Width of top of Dam

$$W = 3 + 2\sqrt{H}$$

$$= 3 + 2\sqrt{24.6} = 3 + 9.9 = 12.9 \quad \text{Use 13.0 ft.}$$

Vol. Earthwork in Fill

General Design: V = 6,825 c.y. fill

The new centerline of the dam was located on the site 17.3 ft. back of the existing dam centerline. At the end of the existing dam the new dam centerline was turned upstream into the abutments to obtain the 103.6 elevation. This has been plotted on the topographic map of the area which accompanies this report. A spillway centerline was staked at the north end of the dam. The spillway was cut through the end of the dam to allow room for a road between the spillway and adjacent field. This is also shown on the accompanying maps.

A profile of the dam and spillway centerline is plotted and the hydrawlic design of the spillway follows.

Hydraulic Design

Emergency Spillway:

A new emergency spillway will be built around the north end of the dam as shown on the plans. A concrete control section will be constructed at station 2 + 50 of the spillway centerline. The downstream section of the channel will be seeded into grass suited for the site conditions which will act as a protection for the spillway channel. Rip-rap will be placed at the bottom of the spillway as it enters back into the old stream channel.

Design Data:

R-1014

Q - 63 c.f.s.
Z - 1½:1
W - 15.0 ft.
L - 75 ft.
N - .04

Determine Hp: (Using Tech. Rel #2)

W = b + Zdc
q = 63/15 = 4.2
dc = 0.82 (ES-98)

W_1 = 15.0 + 1.5 (.82) = 16.23
q = 63/16.23 = 3.88
dc = 0.77 (ES-98)

W_2 = 15.0 + 1.5 (0.77) = 16.15
q = 63/16.15 = 3.9
dc = 0.78

W_3 = 15.0 + 1.5 (.78) = 16.17

From ES-124 SHT 1of 7

$Hp = 1.81 \left(\frac{3.9}{5}\right) = 1.41$ ft.

Depth Spillway:

D = Hp + F.B.
F.B. + 2.0

D = 1.41 + 2.0 = 3.41 Use 3.5 ft.

Check For Control Section

Downstream Slope = 0.16

$K = \frac{Qn}{6\ 8/3\ \ S\ 1/2}$

$\frac{(63)\ (.04)}{(1370)\ (.4)} = .0046$

D/b = .03

D = 0.45 ft.

A = 15 + 1.5 (.45) = 15.67

E-1074

$$V = Q/A = \frac{63}{15.67} = 4.02 \text{ fps}$$

$$h_v = \frac{(4.02)^2}{54.4} = 0.251 \text{ ft.} > 1/3 \text{ Hc}$$

∴ Control section exists.

Structural Design

Since the addition to the dam will be on the back side of the present dam the present inlet structure for the pipe conduit will remain as is. The present headgate will also be used but the gate stem and frame will be lengthened as needed. The catwalk will be rebuilt to the required elevation. The outlet structure on the present conduit will be removed. The concrete around the pipe will be cut back to allow jointing an additional 16.8 feet length of steel pipe to the conduit. This joint will be welded and the new pipe encased with reinforced concrete. A new outlet structure will be built on the end of the pipe. No additional cut off collars will be required. The present collars on the conduit increases the length of travel 18%.

Cut-off Trench

The present cut-off trench will not be changed. Since the water surface elevation will only raise 1.6 feet above the top of the present dam very little pressure will occur on the new section of the dam past the ends of the existing dam. Therefore, addition to the present cut-off trench would be of little value.

Rip-Rap

Rip-rap will be extended up the face of the dam to cover the new section. Where the spillway empties back into the stream channel rip-rap will be placed to protect the stream banks.

Downstream Toe Drain

A toe drain will be constructed as shown on the plans. The specifications explain the method of placing and the material requirements for this drain.

Plans

The detailed drawings accompany this report to the State Conservation Engineer for checking and fowarding to Cartographic for final drafting.

Cost Estimate

A estimated cost for the additional work on the dam is attached.

2-10-74

ID-9
12/13/55

UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service
IDAHO

Sheet No. _____
of _____

(Estimate)
~~(Final)~~

COST DISTRIBUTION SHEET

Planning Engineer V. G. King Date 9/2/60

Job Name Maurice Tingey Dam

Approved by _____ Date _____

Construction Engineer _____

Job Location Weston, Idaho Work Unit Preston Date Completed _____

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT COST	Cost Division			TOTAL COST
					Group	Soil Conservation District		
						SCS in source	Other than SCS in source	
1.	Outlet Pipe	ft.	29	$ 3.00	$ 87.00			
2.	Gate Frame & Stem	ft.	6	.50	3.00			
3.	Concrete	c.y.	10	75.00	750.00			
4.	Fill	c.y.	6,825	.50	3412.50			
5.	Cut	c.y.	1,480	.20	296.00			
				Total	$ 4548.50			$4548.50
6.	Engineering							
	GS-9	days	10	$28.56		$285.60		
	GS-6	days	3	22.38		67.14		
	GS-5	days	6	20.52		123.12		
					Total	$475.86		475.86
							Grand Total	$5024.36

P-1074

SPECIFICATIONS
W. M. Tingey Dam
FRANKLIN SCD, IDAHO

A. DEFINITION OF TERMS AND RELATIONSHIPS

The following terms are used in these specifications. Their meanings shall be as follows:

1. "Owner". W. M. Tingey, owner of the dam.

The owner is responsible for all expenditures for construction. All items of work to be paid by the owner must have the owner's approval.

It is understood that the owner will execute the plans and specifications to the best of his ability and that any changes made as construction progresses will be made with the advice and concurrence of the SCS Engineer and approval of the State Reclamation Engineer.

2. "District". The Franklin Soil Conservation District represented by their Board of Directors or their authorized representative.

Technical assistance of the Soil Conservation Service is provided through the District.

3. "SCS Engineer". The Engineer of the U. S. Soil Conservation Service representing the Franklin Soil Conservation District or his authorized representative.

The SCS Engineer, acting as a technical adviser for the owner, has compiled these plans and specifications. He will provide surveys, tests, and technical direction of the work so that the job may be constructed as planned. He cannot authorize changes without the approval of the owner.

4. "Reclamation Engineer". The State Reclamation Engineer of Idaho or his authorized representative.

Under the provisions of the water laws of Idaho the Reclamation Engineer is charged with the examination and approval of sites, plans, specifications and inspection of construction to insure safety of such work with reference to possible damage to life and property.

These plans and specifications must have the written approval of the Reclamation Engineer prior to initiation of construction. It is further required that the work performed in the construction of the dam and materials that are used in construction that become a part of the completed structure shall at all times be subject to the approval of the Reclamation Engineer and that no material changes in plans or specifications made necessary during construction by unforeseen contingencies or otherwise shall be made without prior approval of the Reclamation Engineer.

R-1071

5. "Plans". The official plans accompanying these specifications and approved by the SCS and Reclamation Engineer are part of these specifications.

6. "Specifications". The directions, provisions and requirements contained herein pertain to the method and manner of performance of the work and to the quality of material to be used.

B. SCOPE OF PLANS AND SPECIFICATIONS

1. Intent of Plans and Specifications. These plans and specifications are prepared for the purpose of controlling construction to the extent that quality structures will be built.

2. Deviation from Plans and Specifications. No deviation from the plans or specifications will be permitted without the consent of the SCS Engineer. The SCS Engineer will obtain other approvals when necessary.

3. Changes In Plans and Specifications. Where conditions arise that indicate a need for a change of the plans or specifications, these changes shall be initiated by the SCS Engineer in charge and submitted by him to the Reclamation Engineer for approval. All changes shall be authorized in writing.

4. Coordination of Plans and Specifications. In case of conflict between the requirements and provisions set forth in the plans and specifications the provision of the specification takes precedence over that of the plan.

5. Right to Discontinue Cooperation. If the owner fails to follow plans and specifictions as agreed to, then the District may withdraw all technical assistance upon notification of the Reclamation Engineer of such withdrawal.

C. CONSTRUCTION SPECIFICATIONS

1.0 Excavation.

1.1 Borrow Pits. All materials required for construction of the embankment that are not available from required excavation, shall be taken from borrow pits. The proposed locations and extent of borrow pits are shown on the plan. The sites of the borrow pits shall be carefully stripped of all surface soil, vegetation, roots, brush, sod, and other objectionable material. This material shall not be used in any part of the fill.

1.2 Embankement Foundation. The dam foundation and downstream face of existing dam shall be stripped or excavated to a sufficient depth to remove all surface soil, vegetation, roots, brush, sod, and other material not suitable for foundations. Before fill is placed, the foundation, face of dam, and abutment areas shall have their surfaces in a loose and scored condition by discing to depths of 3 - 4 inches to provide a good bond between the foundation and the embankment. Loose earth shall not be left on the foundation area to a depth in excess of 6" above approved, undisturbed foundation material. This loose bonding surface shall contain adequate moisture for proper compaction when fill material is placed on it. No foundations or abutments shall be covered by material of the dam until the SCS Engineer has inspected and approved the same.

1.3 Spillway. An emergency spillway channel shall be excavated through the abutment as shown on the plans. This channel shall be excavated to the line and grade for finished section for an open grassed type spillway but shall not include the actual establishment of the vegetative cover. Material excavated from the spillway will be used in the main embankment if suitable. Any material excavated that is not suitable will be wasted. Machine excavation shall be accepted as satisfactory for the excavation of the spillway except for the spillway control structure. Overexcavations, however, will be filled and tamped to provide a degree of compaction equal to adjacent undisturbed earth. Excavation for the spillway control structure shall be described in item 1.5.

1.4 Structures. Excavation for the outlet conduit and other concrete structures shall be confined to neat lines and grades where practicable so that the bottom and the sides are suitable forms for concrete encasement, cutoff collars, or other appurtenances. No concrete shall be poured in the outlet conduit trench until the SCS Engineer has inspected and approved it.

2.0 Outlet Conduit and Other Structures.

The outlet conduit shall consist of a 12 inch, 16 gauge or heavier welded steel pipe, inner liner encased in reinforced concrete, a control gate, and inlet and outlet structures. The minimum thickness of concrete encasement shall be six inches. The concrete cutoff collars shall be considered an integral part of the conduit encasement. All parts of the structure and other structures shall be constructed as shown on the plans and in accordance with the following specifications.

2.1 Concrete. Concrete shall be mixed and placed as specified below.

2.1.1 Cement. To be Portland Cement of a standard commercial brand, free of lumps and partially set masses. In no case shall less than 5-1/2 sacks of cement be used in each cubic yard of concrete.

R-1074

2.1.2 Water. Water shall be free of acid, alkali, oils, and organic matter. Simple rule--water should be suitable for drinking.

2.1.3 Aggregate. This may be of non-commercial sources, provided it has adequately graded, clean, hard, strong, durable particles, and is sufficiently free of deleterious substances when it meets the following limitations.

(1) When separated on the number four standard screen, the weight passing the sieve shall not be less than thirty percent nor more than fifty percent of the total. No rock shall exceed 1-1/2" diameter.

(2) Clay lumps do not exceed 1.5 percent.

(3) All other deleterious substances do not exceed five percent.

2.1.4 Mixing. Mixing shall be continued for at least 1-1/2 minutes after all materials, including water, are in mixer. Each batch shall be completely discharged before the mixer is recharged. No more than 6-1/2 gallons of water per sack of cement shall be used. This includes surface water in the aggregates. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted.

Truck mixing will be allowed provided that the use of this method does not violate any applicable provisions of these specifications for concrete.

2.1.5 Measurement of Materials. Equipment used for measuring quantities shall be calibrated so the correct quantity of material measured is known.

2.1.6 Forms. Forms shall conform to the shape, lines, and dimensions of the members as called for on the plans, and shall be substantial and sufficiently tight to prevent leakage of mortar. They shall be properly braced and tied together so as to maintain position and shape.

2.1.7 Placing Concrete. Forms shall be wetted or oiled and thoroughly cleaned of debris and ice. Depositing continuously at one point and letting it flow to distant points shall not be allowed since the water and fines segregate from the rest of the mass. The concrete shall be spaded next to the forms to prevent honeycombing. Laitance and increased water in the

upper portions of the concrete shall be prevented. Excess water shall be worked to a low point without causing flow, and be removed.

2.1.8 Reinforcing Steel. Reinforcing steel shall be furnished, fabricated and placed as shown on the plans. All reinforcing bars shall be deformed bars of structural grade steel. Reinforcing steel, before being placed in the forms, shall be thoroughly cleaned of loose mill and rust scale, oil, dirt or other coatings of any character that would destroy or reduce the bond.

2.1.9 Construction Joints. Joints not indicated on the plans shall be so made and located as to least impair the strength of the structure. Where a joint is to be made the surface of the concrete shall be thoroughly wetted, but not saturated, and flushed with a coat of neat cement grout immediately before the placing of new concrete.

2.1.10 Curing. All exposed concrete shall be moist cured for a period of 14 days or cured by a membrane seal which shall be maintained intact for a period of thirty days. When membrane seals are used they shall be applied within 30 minutes after concrete placing.

Wet curing for concrete which is to be covered by the earth embankment may be reduced from 14 days to 7 days. All concrete shall be protected from the direct rays of the sun for not less than 3 days. White pigmented compounds are recommended for use as a membrane seal and will give satisfactory protection from the direct rays of the sun. All concrete shall be protected against freezing for at least the period required for moist curing. When concrete is placed in freezing weather it shall be heated to maintain a temperature of not less than 70° for 72 hours or 50° for 5 days and the protection continued above freezing for the required curing period. Calcium chloride may be added or high-early-strength concretes to reduce the curing and time of protection. This time shall be not less than 1/3 the time required for standard cement.

3.0 Emergency Spillway.

This item covers construction of vegetated spillway as detailed in the plans for this dam with concrete spillway crest control.

3.1 Excavation. Excavation shall be as described previously in items 1.4 and 1.5 to the lines and grades as indicated on the drawings.

3.2 Concrete. Concrete work shall be done in accordance with provisions for concrete in item 2.0.

3.3 Finishing. Excavation shall be to sat lines and grades as previously described in item 1.4. The seed bed preparation, seeding and establishing of stand shall be done by the owner in accordance with SCS-ACP specifications for grassed waterways.

4.0 Structural Backfill.

No backfull shall be placed against the structure for 7 days after the concrete has been poured.

Fill material shall be placed against the structures by hand in maximum layers of 6 inches and thoroughly compacted by hand operated tampers.

No compaction equipment such as the sheepsfoot roller will be used for compacting within 18 inches of a structure.

Moisture and density shall be the same as required for the earth embankment.

Selected impervious material shall be used for all structural backfill.

5.0 Earth Embankment.

5.1 Founaation Preparation. The foundation for the earth fill shall be so prepared by leveling and rolling that the surface materials of the foundation will be as compact and well bonded with the first layer of the fill as herein specified for the subsequent layers of the earth fill.

5.2 Qualityof Materials. The earth fill portion of the dam, including the fill around the outlet conduit and in the cutoff trenches shall consist of soil materials, approved by the SCS Engineer, from borrow areas shown on the plan and from excavations required for other parts of the work. No brush, roots, sod, or other perishable or compressible debris shall be placed in the embankment. No stones having maximum dimensions of more than five inches shall be placed in the embankment; any such stones hauled onto the embankment shall be removed before rolling.

5.3 Placement of Materials. Fill materials will be placed in the embankment in the following manner;

5.3.1 The approved mixture of earth materials shall be placed in the embankment in continuous, approximately

R-1014

level, layers having a thickness of not more than 8 inches before compaction.

5.3.2 An acceptable working range of moisture content shall be established by the engineer for each type of fill material prior to the start of construction, and no material shall be placed in the embankment which does not have a moisture content within its specified working range. (See: 5.4 Moisture Control, and 5.6, for Data for Estimating.)

5.3.3 The distribution of materials shall be such that the embankment will be free from lenses, pockets, streaks, or layers differing appreciably in texture from the surrounding material.

5.3.4 The fill materials shall be compacted by means of a tamping roller of such size and weight that the materials will be compacted to the densities specified herein or by the engineer as construction progresses. (See: 5.5, Compaction Control, and 5.6, Data for Estimating.)

5.3.5 The first course of fill material shall be spread over the foundation in a thin layer such that the combined thickness of this layer and the scarified surface of the foundation shall not exceed 8 inches before a compaction.

5.3.6 If the rolled surface of any lift becomes too smooth for proper bond, it shall be adequately scarified before placement of the next lift.

5.4 Moisture Control. The abutments, the surface of the fill, and the materials being placed shall be maintained at the proper moisture content during the placement operations. The moisture content shall be controlled in the following manner:

5.4.1 If the foundation and/or abutments have insufficient moisture content, water shall be added by sprinkling.

5.4. 2 The application of water to the fill materials shall be accomplished by irrigation of the borrow areas.

5.4.3 Any material or surface which has dried to below the required moisture content shall be uniformly moistened, by sprinkling, before the material is compacted or before a dried surface is covered by additional fill material.

5.4.4 Material having a moisture content higher than that specified by the engineer shall be removed from the fill or allowed to dry to an acceptable condition before being compacted.

R-1084

5.4.5 Adjustment of moisture content will be made on the basis of determinations of moisture content made by the engineer or inspector as construction progresses.

5.5 Compaction Control. Compaction of the fill materials shall be accomplished and controlled in the following manner:

5.5.1 The tamping roller shall be of the sheepsfoot type and shall have a minimum ballasted weight of 1250 pounds per foot of width. The projected face area of each tamping knob and the number and spacing of the knobs shall be such that the total weight of the ballasted roller, when distributed over one row of knobs, will result in a minumum contact pressure of 250 lbs per square inch.

5.5.2 Tamping rollers will be operated at a speed of approximately 3 miles per hours.

5.5.3 Each lift of fill material shall be compacted by passing the tamping roller over the entire surface of the lift the number of times required to obtain the desired density.

5.5.4 The rate of placement of fill material will be adjusted as required on the basis of determinations of fill density, in place, made by the engineer or inspector as construction progresses.

5.6 Data for Determining Compaction. Moisture and compaction data has been determined by laboratory analysis.

5.6.1 Estimating Compaction and Rate of Placement. Compaction required shall not exceed 15 trips per 6" compacted layer with a roller weighing 1300 lbs. per linear foot or 20 trips with a roller weighing 1250 lbs. per linear foot.

Rate of placement corresponding to the above rollers is 50 and 35 cubic yds. per hour for each 4 foot roller unit respectively.

6.0 Dumped Riprap.

The upstream face of the dam shall be protected by riprap.

The riprap shall have a minimum thickness of 9 inches and be placed on a 6 inch gravel blanket or the blanket may be eliminated by using 12 inches of rock riprap containing 30 to 35% gravel or spalls.

7.0 Metal Work.

7.1 Intake Gate. The intake gate shall be anArmco Slide Gate Model 20-10C or the equivelent, placed according to the manufacturer's recommendation and the plans.

7.2 Other Metal Work. Other metal work shall be procured or fabricated and installed in accordance with the plans.

8.0 Clean Up.

8.1 General Appearance. The site shall be left with a neat workmanlike appearance.

8.2 Finishing. Steep banks, borrow areas and other rough spots shall be smoothed to facilitate revegetation. Stripping and waste material, if not otherwise used, shall be spread.

Meader N. Wilkins

Meader N. Wilkins
State Conservation Engineer
Soil Conservation Service - Idaho

R-1024

SPECIFICATIONS
W. M. Tingey Dam
FRANKLIN SCD, IDAHO

1. DEFINITION OF TERMS AND RELATIONSHIPS

The following terms are used in these specifications. Their meanings shall be as follows:

1. "Owner". W. M. Tingey, owner of the dam.

The owner is responsible for all expenditures for construction. All items of work to be paid by the owner must have the owner's approval.

It is understood that the owner will execute the plans and specifications to the best of his ability and that any changes made as construction progresses will be made with the advice and concurrence of the SCS Engineer and approval of the State Reclamation Engineer.

2. "District". The Franklin Soil Conservation District represented by their Board of Directors or their authorized representative.

Technical assistance of the Soil Conservation Service is provided through the District.

3. "SCS Engineer". The Engineer of the U. S. Soil Conservation Service representing the Franklin Soil Conservation District or his authorized representative.

The SCS Engineer, acting as a technical adviser for the owner, has compiled these plans and specifications. He will provide surveys, tests and technical direction of the work so that the job may be constructed as planned. He cannot authorize changes without the approval of the owner.

4. "Reclamation Engineer". The State Reclamation Engineer of Idaho or his authorized representative.

Under the provisions of the water laws of Idaho the Reclamation Engineer is charged with the examination and approval of sites, plans, specifications and inspection of construction to insure safety of such work with reference to possible damage to life and property.

These plans and specifications must have the written approval of the Reclamation Engineer prior to initiation of construction. It is further required that the work performed in the construction of the dam and materials that are used in construction that become a part of the completed structure shall at all times be subject to the approval of the Reclamation Engineer and that no material changes in plans or specifications made necessary during construction by unforeseen contingencies or otherwise shall be made without prior approval of the Reclamation Engineer.

P-1077

5. "Plans". The official plans accompanying these specifications and approved by the SCS and Reclamation Engineer are part of these specifications.

6. "Specifications". The directions, provisions and requirements contained herein pertain to the method and manner of performance of the work and to the quality of material to be used.

B. SCOPE OF PLANS AND SPECIFICATIONS

1. Intent of Plans and Specifications. These plans and specifications are prepared for the purpose of controlling construction to the extent that quality structures will be built.

2. Deviation from Plans and Specifications. No deviation from the plans or specifications will be permitted without the consent of the SCS Engineer. The SCS Engineer will obtain other approvals when necessary.

3. Changes In Plans and Specifications. Where conditions arise that indicate a need for a change of the plans or specifications, these changes shall be initiated by the SCS Engineer in charge and submitted by him to the Reclamation Engineer for approval. All changes shall be authorized in writing.

4. Coordination of Plans and Specifications. In case of conflict between the requirements and provisions set forth in the plans and specifications the provision of the specification takes precedence over that of the plan.

5. Right to Discontinue Cooperation. If the owner fails to follow plans and specifications as agreed to, then the District may withdraw all technical assistance upon notification of the Reclamation Engineer of such withdrawal.

C. CONSTRUCTION SPECIFICATIONS

1.0 Excavation.

1.1 Borrow Pits. All materials required for construction of the embankment that are not available from required excavation, shall be taken from borrow pits. The proposed locations and extent of borrow pits are shown on the plan. The sites of the borrow pits shall be carefully stripped of all surface soil, vegetation, roots, brush, sod, and other objectionable material. This material shall not be used in any part of the fill.

P-1074

1.2 Embankment Foundation. The dam foundation and downstream face of existing dam shall be stripped or excavated to a sufficient depth to remove all surface soil, vegetation, roots, brush, sod, and other material not suitable for foundations. Before fill is placed, the foundation, face of dam, and abutment areas shall have their surfaces in a loose and scored condition by discing to depths of 3 - 4 inches to provide a good bond between the foundation and the embankment. Loose earth shall not be left on the foundation area to a depth in excess of 6" above approved, undisturbed foundation material. This loose bonding surface shall contain adequate moisture for proper compaction when fill material is placed on it. No foundations or abutments shall be covered by material of the dam until the SCS Engineer has inspected and approved the same.

1.3 Spillway. An emergency spillway channel shall be excavated through the abutment as shown on the plans. This channel shall be excavated to the line and grade for finished section for an open grassed type spillway but shall not include the actual establishment of the vegetative cover. Material excavated from the spillway will be used in the main embankment if suitable. Any material excavated that is not suitable will be wasted. Machine excavation shall be accepted as satisfactory for the excavation of the spillway except for the spillway control structure. Overexcavations, however, will be filled and tamped to provide a degree of compaction equal to adjacent undisturbed earth. Excavation for the spillway control structure shall be described in item 1.5.

1.4 Structures. Excavation for the outlet conduit and other concrete structures shall be confined to neat lines and grades where practicable so that the bottom and the sides are suitable forms for concrete encasement, cutoff collars, or other appurtenances. No concrete shall be poured in the outlet conduit trench until the SCS Engineer has inspected and approved it.

2.0 Outlet Conduit and Other Structures.

The outlet conduit shall consist of a 12 inch, 16 gauge or heavier welded steel pipe, inner liner encased in reinforced concrete, a control gate, and inlet and outlet structures. The minimum thickness of concrete encasement shall be six inches. The concrete cutoff collars shall be considered an integral part of the conduit encasement. All parts of the structure and other structures shall be constructed as shown on the plans and in accordance with the following specifications.

2.1 Concrete. Concrete shall be mixed and placed as specified below.

2.1.1 Cement. To be Portland Cement of a standard commercial brand, free of lumps and partially set masses. In no case shall less than 5-1/2 sacks of cement be used in any cubic yard of concrete.

L-1094

2.1.2 Water. Water shall be free of acid, alkali, oils, and organic matter. Simple rule—water should be suitable for drinking.

2.1.3 Aggregate. This may be of non-commercial sources, provided it has adequately graded, clean, hard, strong, durable particles, and is sufficiently free of deleterious substances when it meets the following limitations.

(1) When separated on the number four standard screen, the weight passing the sieve shall not be less than thirty percent nor more than fifty percent of the total. No rock shall exceed 1-1/2" diameter.

(2) Clay lumps do not exceed 1.5 percent.

(3) All other deleterious substances do not exceed five percent.

2.1.4 Mixing. Mixing shall be continued for at least 1-1/2 minutes after all materials, including water, are in mixer. Each batch shall be completely discharged before the mixer is recharged. No more than 6-1/2 gallons of water per sack of cement shall be used. This includes surface water in the aggregates. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted.

Truck mixing will be allowed provided that the use of this method does not violate any applicable provisions of these specifications for concrete.

2.1.5 Measurement of Materials. Equipment used for measuring quantities shall be calibrated so the correct quantity of material measured is known.

2.1.6 Forms. Forms shall conform to the shape, lines, and dimensions of the members as called for on the plans, and shall be substantial and sufficiently tight to prevent leakage of mortar. They shall be properly braced and tied together so as to maintain position and shape.

2.1.7 Placing Concrete. Forms shall be wetted or oiled and thoroughly cleaned of debris and ice. Depositing continuously at one point and letting it flow to distant points shall not be allowed since the water and fine aggregate from the rest of the mass. The concrete shall be spaded next to the forms to prevent honeycombing. Laitance and increased water in the

R-10 94

upper portions of the concrete shall be prevented. Excess water shall be worked to a low point without causing flow, and be removed.

2.1.8 Reinforcing Steel. Reinforcing steel shall be furnished, fabricated and placed as shown on the plans. All reinforcing bars shall be deformed bars of structural grade steel. Reinforcing steel, before being placed in the forms, shall be thoroughly cleaned of loose mill and rust scale, oil, dirt or other coatings of any character that would destroy or reduce the bond.

2.1.9 Construction Joints. Joints not indicated on the plans shall be so made and located as to least impair the strength of the structure. Where a joint is to be made the surface of the concrete shall be thoroughly wetted, but not saturated, and flushed with a coat of neat cement grout immediately before the placing of new concrete.

2.1.10 Curing. All exposed concrete shall be moist cured for a period of 14 days or cured by a membrane seal which shall be maintained intact for a period of thirty days. When membrane seals are used they shall be applied within 30 minutes after concrete placing.

Wet curing for concrete which is to be covered by the earth embankment may be reduced from 14 days to 7 days. All concrete shall be protected from the direct rays of the sun for not less than 3 days. White pigmented compounds are recommended for use as a membrane seal and will give satisfactory protection from the direct rays of the sun. All concrete shall be protected against freezing for at least the period required for moist curing. When concrete is placed in freezing weather it shall be heated to maintain a temperature of not less than 70° for 72 hours or 50° for 5 days and the protection continued above freezing for the required curing period. Calcium chloride may be added or high-early-strength concretes to reduce the curing and time of protection. This time shall be not less than 1/3 the time required for standard cement.

3.0 Emergency Spillway.

This item covers construction of vegetated spillway as detailed in the plans for this dam with concrete spillway crest control.

3.1 Excavation. Excavation shall be as described previously in items 1.4 and 1.5 to the lines and grades as indicated on the drawings.

3.2 Concrete. Concrete work shall be done in accordance with provisions for concrete in item 2.0.

3.3 Finishing. Excavation shall be to mat lines and grades as previously described in item 1.4. The seed bed preparation, seeding and establishing of stand shall be done by the owner in accordance with SCS-ACP specifications for grassed waterways.

4.0 Structural Backfill.

No backfull shall be placed against the structure for 7 days after the concrete has been poured.

Fill material shall be placed against the structures by hand in maximum layers of 6 inches and thoroughly compacted by hand operated tampers.

No compaction equipment such as the sheepsfoot roller will be used for compacting within 18 inches of a structure.

Moisture and density shall be the same as required for the earth embankment.

Selected impervious material shall be used for all structural backfill.

5.0 Earth Embankment.

5.1 Foundation Preparation. The foundation for the earth fill shall be so prepared by leveling and rolling that the surface materials of the foundation will be as compact and well bonded with the first layer of the fill as herein specified for the subsequent layers of the earth fill.

5.2 Qualityof Materials. The earth fill portion of the dam. including the fill around the outlet conduit and in the cutoff trenches shall consist of soil materials, approved by the SCS Engineer, from borrow areas shown on the plan and from excavations required for other parts of the work. No brush, roots, sod, or other perishable or compressible debris shall be placed in the embankment. No stones having maximum dimensions of more than five inches shall be placed in the embankment; any such stones hauled onto the embankment shall be removed before rolling.

5.3 Placement of Materials. Fill materials will be placed in the embankment in the following manner;

5.3.1 The approved mixture of earth materials shall be placed in the embankment in continuous, approximately

P-1074

level, layers having a thickness of not more than 8 inches before compaction.

5.3.2 An acceptable working range of moisture content shall be established by the engineer for each type of fill material prior to the start of construction, and no material shall be placed in the embankment which does not have a moisture content within its specified working range. (See: 5.4 Moisture Control, and 5.6, for Data for Estimating.)

5.3.3 The distribution of materials shall be such that the embankment will be free from lenses, pockets, streaks, or layers differing appreciably in texture from the surrounding material.

5.3.4 The fill materials shall be compacted by means of a tamping roller of such size and weight that the materials will be compacted to the densities specified herein or by the engineer as construction progresses. (See: 5.5, Compaction Control, and 5.6, Data for Estimating.)

5.3.5 The first course of fill material shall be spread over the foundation in a thin layer such that the combined thickness of this layer and the scarified surface of the foundation shall not exceed 8 inches before a compaction.

5.3.6 If the rolled surface of any lift becomes too smooth for proper bond, it shall be adequately scarified before placement of the next lift.

5.4 Moisture Control. The abutments, the surface of the fill, and the materials being placed shall be maintained at the proper moisture content during the placement operations. The moisture content shall be controlled in the following manner:

5.4.1 If the foundation and/or abutments have insufficient moisture content, water shall be added by sprinkling.

5.4.2 The application of water to the fill materials shall be accomplished by irrigation of the borrow areas.

5.4.3 Any material or surface which has dried to below the required moisture content shall be uniformly moistened, by sprinkling, before the material is compacted or before a dried surface is covered by additional fill material.

5.4.4 Material having a moisture content higher than that specified by the engineer shall be removed from the fill or allowed to dry to an acceptable condition before being compacted.

5.4.5 Adjustment of moisture content will be made on the basis of determinations of moisture content made by the engineer or inspector as construction progresses.

5.5 Compaction Control. Compaction of the fill materials shall be accomplished and controlled in the following manner:

5.5.1 The tamping roller shall be of the sheepsfoot type and shall have a minimum ballasted weight of 1250 pounds per foot of width. The projected face area of each tamping knob and the number and spacing of the knobs shall be such that the total weight of the ballasted roller, when distributed over one row of knobs, will result in a minumum contact pressure of 250 lbs per square inch.

5.5.2 Tamping rollers will be operated at a speed of approximately 3 miles per hours.

5.5.3 Each lift of fill material shall be compacted by passing the tamping roller over the entire surface of the lift the number of times required to obtain the desired density.

5.5.4 The rate of placement of fill material will be adjusted as required on the basis of determinations of fill density, in place, made by the engineer or inspector as construction progresses.

5.6 Data for Determining Compaction. Moisture and compaction data has been determined by laboratory analysis.

5.6.1 Estimating Compaction and Rate of Placement. Compaction required shall not exceed 15 trips per 6" compacted layer with a roller weighing 1800 lbs. per linear foot or 20 trips with a roller weighing 1250 lbs. per linear foot.

Rate of placement corresponding to the above rollers is 50 and 35 cubic yds. per hour for each 4 foot roller unit respectively.

6.0 Dumped Riprap.

The upstream face of the dam shall be protected by riprap.

The riprap shall have a minimum thickness of 9 inches and be placed on a 6 inch gravel blanket or the blanket may be eliminated by using 12 inches of rock riprap containing 30 to 35% gravel or spalls.

7.0 Metal Work.

7.1 Intake Gate. The intake gate shall be anArmco Slide Gate Model 20-100 or the equivalent, placed according to the manufacturer's recommendation and the plans.

7.2 Other Metal Work. Other metal work shall be procured or fabricated and installed in accordance with the plans.

P. 10 of 11

5.0 Clean Up.

5.1 General Appearance. The site shall be left with a neat workmanlike appearance.

5.2 Finishing. Steep banks, borrow areas and other rough spots shall be smoothed to facilitate revegetation. Stripping and waste material, if not otherwise used, shall be spread.

Meader H. Williams

Meader H. Williams
State Conservation Engineer
Soil Conservation Service - Idaho

SPECIFICATIONS
W. M. Tingey Dam
FRANKLIN SCD, IDAHO

A. DEFINITION OF TERMS AND RELATIONSHIPS

The following terms are used in these specifications. Their meanings shall be as follows:

1. "Owner". W. M. Tingey, owner of the dam.

The owner is responsible for all expenditures for construction. All items of work to be paid by the owner must have the owner's approval.

It is understood that the owner will execute the plans and specifications to the best of his ability and that any changes made as construction progresses will be made with the advice and concurrence of the SCS Engineer and approval of the State Reclamation Engineer.

2. "District". The Franklin Soil Conservation District represented by their Board of Directors or their authorized representative.

Technical assistance of the Soil Conservation Service is provided through the District.

3. "SCS Engineer". The Engineer of the U. S. Soil Conservation Service representing the Franklin Soil Conservation District or his authorized representative.

The SCS Engineer, acting as a technical adviser for the owner, has compiled these plans and specifications. He will provide surveys, tests and technical direction of the work so that the job may be constructed as planned. He cannot authorize changes without the approval of the owner.

4. "Reclamation Engineer". The State Reclamation Engineer of Idaho or his authorized representative.

Under the provisions of the water laws of Idaho the Reclamation Engineer is charged with the examination and approval of sites, plans, specifications and inspection of construction to insure safety of such work with reference to possible damage to life and property.

These plans and specifications must have the written approval of the Reclamation Engineer prior to initiation of construction. It is further required that the work performed in the construction of the dam and materials that are used in construction that become a part of the completed structure shall at all times be subject to the approval of the Reclamation Engineer and that no material changes in plans or specifications made necessary during construction by unforeseen contingencies or otherwise shall be made without prior approval of the Reclamation Engineer.

P-1677

5. "Plans". The official plans accompanying these specifications and approved by the SCS and Reclamation Engineer are part of these specifications.

6. "Specifications". The directions, provisions and requirements contained herein pertain to the method and manner of performance of the work and to the quality of material to be used.

B. SCOPE OF PLANS AND SPECIFICATIONS

1. Intent of Plans and Specifications. These plans and specifications are prepared for the purpose of controlling construction to the extent that quality structures will be built.

2. Deviation from Plans and Specifications. No deviation from the plans or specifications will be permitted without the consent of the SCS Engineer. The SCS Engineer will obtain other approvals when necessary.

3. Changes In Plans and Specifications. Where conditions arise that indicate a need for a change of the plans or specifications, these changes shall be initiated by the SCS Engineer in charge and submitted by him to the Reclamation Engineer for approval. All changes shall be authorized in writing.

4. Coordination of Plans and Specifications. In case of conflict between the requirements and provisions set forth in the plans and specifications the provision of the specification takes precedence over that of the plan.

5. Right to Discontinue Cooperation. If the owner fails to follow plans and specifictions as agreed to, then the District may withdraw all technical assistance upon notification of the Reclamation Engineer of such withdrawal.

C. CONSTRUCTION SPECIFICATIONS

1.0 Excavation.

1.1 Borrow Pits. All materials required for construction of the embankment that are not available from required excavation, shall be taken from borrow pits. The proposed locations and extent of borrow pits are shown on the plan. The sites of the borrow pits shall be carefully stripped of all surface soil, vegetation, roots, brush, sod, and other objectionable material. This material shall not be used in any part of the fill.

8-10-71

1.2 Embankment Foundation. The dam foundation and downstream face of existing dam shall be stripped or excavated to a sufficient depth to remove all surface soil, vegetation, roots, brush, sod, and other material not suitable for foundations. Before fill is placed, the foundation, face of dam, and abutment areas shall have their surfaces in a loose and scored condition by discing to depths of 3 - 4 inches to provide a good bond between the foundation and the embankment. Loose earth shall not be left on the foundation area to a depth in excess of 6" above approved, undisturbed foundation material. This loose bonding surface shall contain adequate moisture for proper compaction when fill material is placed on it. No foundations or abutments shall be covered by material of the dam until the SCS Engineer has inspected and approved the same.

1.3 Spillway. An emergency spillway channel shall be excavated through the abutment as shown on the plans. This channel shall be excavated to the line and grade for finished section for an open grassed type spillway but shall not include the actual establishment of the vegetative cover. Material excavated from the spillway will be used in the main embankment if suitable. Any material excavated that is not suitable will be wasted. Machine excavation shall be accepted as satisfactory for the excavation of the spillway except for the spillway control structure. Overexcavations, however, will be filled and tamped to provide a degree of compaction equal to adjacent undisturbed earth. Excavation for the spillway control structure shall be described in item 1.5.

1.4 Structures. Excavation for the outlet conduit and other concrete structures shall be confined to neat lines and grades where practicable so that the bottom and the sides are suitable forms for concrete encasement, cutoff collars, or other appurtenances. No concrete shall be poured in the outlet conduit trench until the SCS Engineer has inspected and approved it.

2.0 Outlet Conduit and Other Structures.

The outlet conduit shall consist of a 12 inch, 16 gauge or heavier welded steel pipe, inner liner encased in reinforced concrete, a control gate, and inlet and outlet structures. The minimum thickness of concrete encasement shall be six inches. The concrete cutoff collars shall be considered an integral part of the conduit encasement. All parts of the structure and other structures shall be constructed as shown on the plans and in accordance with the following specifications.

2.1 Concrete. Concrete shall be mixed and placed as specified below.

2.1.1 Cement. To be Portland Cement of a standard commercial brand, free of lumps and partially set masses. In no case shall less than 5-1/2 sacks of cement be used in each cubic yard of concrete.

2.1.2 Water. Water shall be free of acid, alkali, oils, and organic matter. Simple rule--water should be suitable for drinking.

2.1.3 Aggregate. This may be of non-commercial sources, provided it has adequately graded, clean, hard, strong, durable particles, and is sufficiently free of deleterious substances when it meets the following limitations.

(1) When separated on the number four standard screen, the weight passing the sieve shall not be less than thirty percent nor more than fifty percent of the total. No rock shall exceed 1-1/2" diameter.

(2) Clay lumps do not exceed 1.5 percent.

(3) All other deleterious substances do not exceed five percent.

2.1.4 Mixing. Mixing shall be continued for at least 1-1/2 minutes after all materials, including water, are in mixer. Each batch shall be completely discharged before the mixer is recharged. No more than 6-1/2 gallons of water per sack of cement shall be used. This includes surface water in the aggregates. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted.

Truck mixing will be allowed provided that the use of this method does not violate any applicable provisions of these specifications for concrete.

2.1.5 Measurement of Materials. Equipment used for measuring quantities shall be calibrated so the correct quantity of material measured is known.

2.1.6 Forms. Forms shall conform to the shape, lines, and dimensions of the members as called for on the plans, and shall be substantial and sufficiently tight to prevent leakage of mortar. They shall be properly braced and tied together so as to maintain position and shape.

2.1.7 Placing Concrete. Forms shall be wetted or oiled and thoroughly cleaned of debris and ice. Depositing continuously at one point and letting it flow to distant points shall not be allowed since the water and fine segregate from the rest of the mass. The concrete shall be spaded next to the forms to prevent honeycombing. Laitance and increased water in the

upper portions of the concrete shall be prevented. Excess water shall be worked to a low point without causing flow, and be removed.

2.1.8 Reinforcing Steel. Reinforcing steel shall be furnished, fabricated and placed as shown on the plans. All reinforcing bars shall be deformed bars of structural grade steel. Reinforcing steel, before being placed in the forms, shall be thoroughly cleaned of loose mill and rust scale, oil, dirt or other coatings of any character that would destroy or reduce the bond.

2.1.9 Construction Joints. Joints not indicated on the plans shall be so made and located as to least impair the strength of the structure. Where a joint is to be made the surface of the concrete shall be thoroughly wetted, but not saturated, and flushed with a coat of neat cement grout immediately before the placing of new concrete.

2.1.10 Curing. All exposed concrete shall be moist cured for a period of 14 days or cured by a membrane seal which shall be maintained intact for a period of thirty days. When membrane seals are used they shall be applied within 30 minutes after concrete placing.

Wet curing for concrete which is to be covered by the earth embankment may be reduced from 14 days to 7 days. All concrete shall be protected from the direct rays of the sun for not less than 3 days. White pigmented compounds are recommended for use as a membrane seal and will give satisfactory protection from the direct rays of the sun. All concrete shall be protected against freezing for at least the period required for moist curing. When concrete is placed in freezing weather it shall be heated to maintain a temperature of not less than 70° for 72 hours or 50° for 5 days and the protection continued above freezing for the required curing period. Calcium chloride may be added or high-early-strength concretes to reduce the curing and time of protection. This time shall be not less than 1/3 the time required for standard cement.

3.0 Emergency Spillway.

This item covers construction of vegetated spillway as detailed in the plans for this dam with concrete spillway crest control.

R-1014

3.1 Excavation. Excavation shall be as described previously in items 1.4 and 1.5 to the lines and grades as indicated on the drawings.

3.2 Concrete. Concrete work shall be done in accordance with provisions for concrete in item 2.0.

3.3 Finishing. Excavation shall be to neat lines and grades as previously described in item 1.4. The seed bed preparation, seeding and establishing of stand shall be done by the owner in accordance with SCS-ACP specifications for grassed waterways.

4.0 Structural Backfill.

No backfill shall be placed against the structure for 7 days after the concrete has been poured.

Fill material shall be placed against the structures by hand in maximum layers of 6 inches and thoroughly compacted by hand operated tampers.

No compaction equipment such as the sheepfoot roller will be used for compacting within 18 inches of a structure.

Moisture and density shall be the same as required for the earth embankment.

Selected impervious material shall be used for all structural backfill.

5.0 Earth Embankment.

5.1 Foundation Preparation. The foundation for the earth fill shall be so prepared by leveling and rolling that the surface materials of the foundation will be as compact and well bonded with the first layer of the fill as herein specified for the subsequent layers of the earth fill.

5.2 Quality of Materials. The earth fill portion of the dam, including the fill around the outlet conduit and in the cutoff trenches shall consist of soil materials, approved by the SCS Engineer, from borrow areas shown on the plan and from excavations required for other parts of the work. No brush, roots, sod, or other perishable or compressible debris shall be placed in the embankment. No stones having maximum dimensions of more than five inches shall be placed in the embankment; any such stones hauled onto the embankment shall be removed before rolling.

5.3 Placement of Materials. Fill materials will be placed in the embankment in the following manner:

5.3.a The approved mixture of earth materials shall be placed in the embankment in continuous, approximately

level, layers having a thickness of not more than 8 inches before compaction.

5.3.2 An acceptable working range of moisture content shall be established by the engineer for each type of fill material prior to the start of construction, and no material shall be placed in the embankment which does not have a moisture content within its specified working range. (See: 5.4 Moisture Control, and 5.6, for Data for Estimating.)

5.3.3 The distribution of materials shall be such that the embankment will be free from lenses, pockets, streaks, or layers differing appreciably in texture from the surrounding material.

5.3.4 The fill materials shall be compacted by means of a tamping roller of such size and weight that the materials will be compacted to the densities specified herein or by the engineer as construction progresses. (See: 5.5, Compaction Control, and 5.6, Data for Estimating.)

5.3.5 The first course of fill material shall be spread over the foundation in a thin layer such that the combined thickness of this layer and the scarified surface of the foundation shall not exceed 8 inches before a compaction.

5.3.6 If the rolled surface of any lift becomes too smooth for proper bond, it shall be adequately scarified before placement of the next lift.

5.4 Moisture Control. The abutments, the surface of the fill, and the materials being placed shall be maintained at the proper moisture content during the placement operations. The moisture content shall be controlled in the following manner:

5.4.1 If the foundation and/or abutments have insufficient moisture content, water shall be added by sprinkling.

5.4.2 The application of water to the fill materials shall be accomplished by irrigation of the borrow areas.

5.4.3 Any material or surface which has dried to below the required moisture content shall be uniformly moistened, by sprinkling, before the material is compacted or before a dried surface is covered by additional fill material.

5.4.4 Material having a moisture content higher than that specified by the engineer shall be removed from the fill or allowed to dry to an acceptable condition before being compacted.

K-1014

5.4.5 Adjustment of moisture content will be made on the basis of determinations of moisture content made by the engineer or inspector as construction progresses.

5.5 Compaction Control. Compaction of the fill materials shall be accomplished and controlled in the following manner:

5.5.1 The tamping roller shall be of the sheepsfoot type and shall have a minimum ballasted weight of 1250 pounds per foot of width. The projected face area of each tamping knob and the number and spacing of the knobs shall be such that the total weight of the ballasted roller, when distributed over one row of knobs, will result in a minumum contact pressure of 250 lbs per square inch.

5.5.2 Tamping rollers will be operated at a speed of approximately 3 miles per hours.

5.5.3 Each lift of fill material shall be compacted by passing the tamping roller over the entird surface of the lift the number of times required to obtain the desired density.

5.5.4 The rate of placement of fill material will be adjusted as required on the basis of determinations of fill density, in place, made by the engineer or inspector as construction progresses.

5.6 Data for Determining Compaction. Moisture and compaction data has been determined by laboratory analysis.

5.6.1 Estimating Compaction and Rate of Placement. Compaction required shall not exceed 15 trips per 6" compacted layer with a roller weighing 1800 lbs. per linear foot or 20 trips with a roller weighing 1250 lbs. per linear foot.

Rate of placement corresponding to the above rollers is 50 and 35 cubic yds. per hour for each 4 foot roller unit respectively.

6.0 Dumped Riprap.

The upstream face of the dam shall be protected by riprap.

The riprap shall have a minimum thickness of 9 inches and be placed on a 6 inch gravel blanket or the blanket may be eliminated by using 12 inches of rock riprap containing 30 to 35% gravel or spalls

7.0 Metal Work.

7.1 Intake Gate. The intake gate shall be anArmco Slide Gate Model 20-103 or the equivalent, placed according to the manufacturer's recommendation and the plans.

7.2 Other Metal Work. Other metal work shall be procured or fabricated and installed in accordance with the plans.

R-1074

6.0 Clean Up.

6.1 General Appearance. The site shall be left with a neat workmanlike appearance.

6.2 Finishing. Steep banks, borrow areas and other rough spots shall be smoothed to facilitate revegetation. Stripping and waste material, if not otherwise used, shall be spread.

Meader H. Wilkins

Meader H. Wilkins
State Conservation Engineer
Soil Conservation Service - Maine

F-1024

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
P. O. Box 1247
Boise, Idaho

RECEIVED
NOV 3 1960
Department of Reclamation

R-1074

November 2, 1960

Mr. George Carter,
State Reclamation Engineer
State House
Boise, Idaho

Dear Mr. Carter:

Attached specifications are for the plan to raise the W. M. Tingey dam which we reviewed recently. I will appreciate it if you will look these over and approve them if they are satisfactory. Please return two signed copies to me and return the original to your file. If there are changes needed, you may make them on these or notify me and I will have them retyped.

Sincerely,

Meader H. Wilkins

Meader H. Wilkins
State Conservation Engineer
SCS, Boise, Idaho

Attachments 3

MHW:llb

R-1074

170 A.F. 23.6' H_2O

FROM

TO

SUBJECT

Blank on plans

What is size of Outlet / -20-10C?

" " " " Trickle tube 1/16" 1/4"

Grassy spillway? Exc described in 1.5 - 1 when

Re: Colwell dam - as built

H. C. Ames - Inter Area Eng.

2450
4475
225'
16
1350
225
3600

100
25
35'

Spillway Crest Control

Is it concrete on fill?

Why exc the emergency channel to a steeper grade than the nat. ground?

3-36 08

INTER-DEPARTMENT MEMO--1

DATE

SIGNATURE

R-1074

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
P. O. Box 1247
Boise, Idaho

RECEIVED
DEC 1 51960
Department of Reclamation

December 12, 1960

Mr. George Carter
State Reclamation Engineer
State House
Boise, Idaho

Re: Maurice Tingey Dam
Enlargement Plans

Dear Mr. Carter:

Reference is made to our recent telephone conversation concerning these plans. I had forgotten many of the details and did not go through the file carefully enough to find the answers to your questions. I wrote Verle King our Engineer at Preston and quote part of his letter here.

"The spillway for the dam as presently designed has a crest control structure located at spillway station 2+50. Below this point the spillway is straight and on a uniform slope.

The hydraulic design of the spillway as shown in the "Report on Enlargement Design of An Earth Fill Dam" for Maurice Tingey, shows the maximum velocity through the spillway as 4.02 fps. Our design manuals show an allowable velocity of 5 fps in grassed spillways with a good stand of grass. Mr. Tingey plans to use his sprinkler system to establish the grass in the spillway.

As the spillway is designed the water does not come in contact with the portion of the spillway bank that is built with fill material. This portion of the spillway is above the crest contact structure. At the spillway crest dc is 0.78 feet. The height of the water in the reservoir above the spillway crest when the design Q is flowing is 1.41 feet. All of the fill in the bank of the spillway is above this water profile.

I have discussed your letter and the design of this spillway with Mr. Tingey. In addition to what the plans show, Mr. Tingey is going to install a concrete apron below the crest control structure to use as a machine crossing. Below this he will install some rip-rap. Where the spillway enters back into the stream channel rip-rap will also be installed. I will send you these changes in the plans under separate cover."

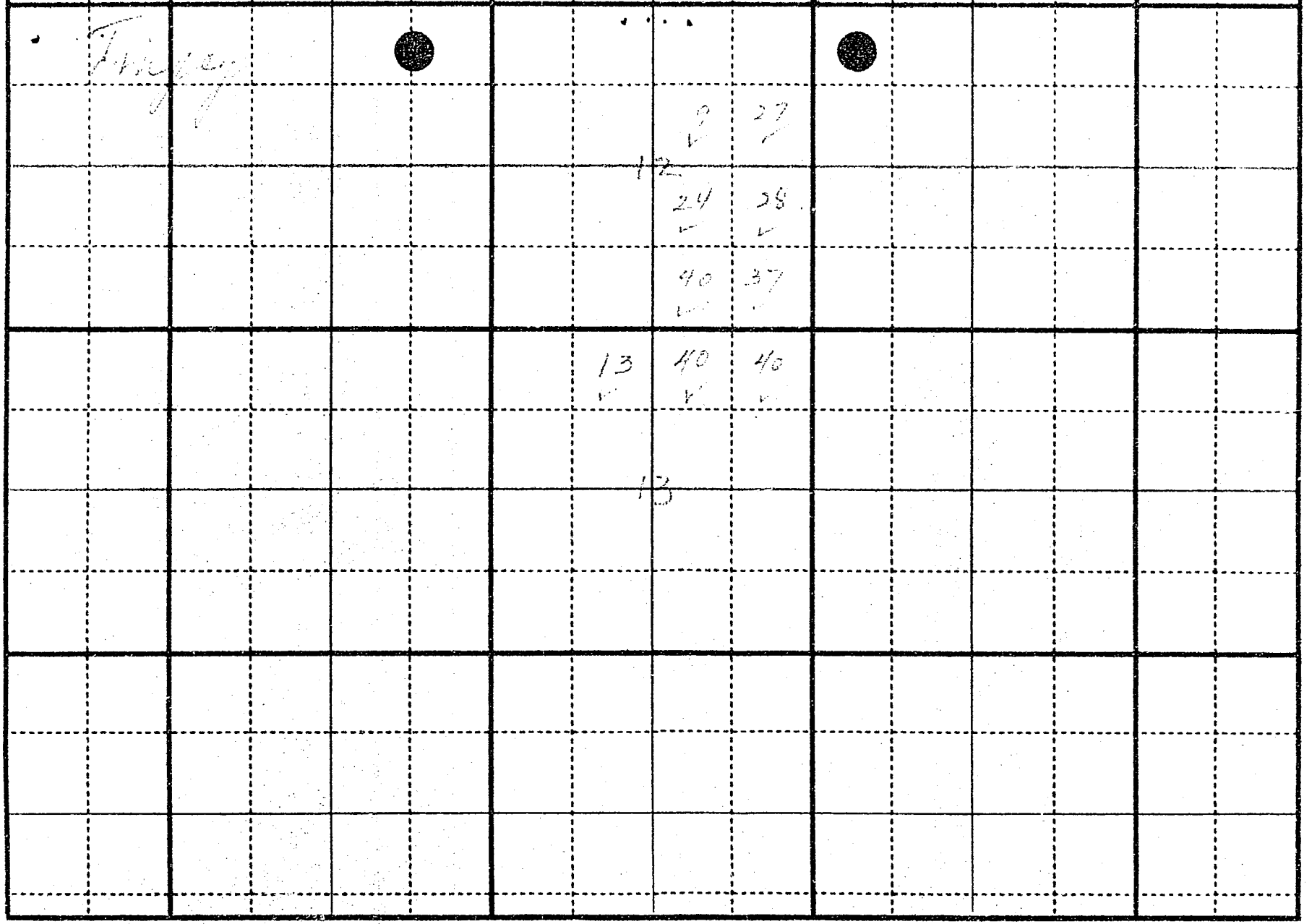
I believe this covers all of the points that we discussed.

Sincerely,

Meader H Wilkins

Meader H. Wilkins
State Conservation Engineer
SCS, Boise, Idaho

MW:lb



SCALE: 2 Inches Equal 1 Mile. Draw Plan In Ink.

R-1094

RECEIVED
JUN 26 1962
Department of Reclamation

Weston Idaho
6-25-62

Mr Geo Carter
State Reclamation Engineer
Boise, Idaho

Dear Mr Carter;

Last year I received my certificate of waterright for Water license No R. 945.

I would like to get some application papers to prove up on permit No R 1074 — application No. R. 36766

This last permit is for additional water for the same land as that covered in R. 945.

The dam is complete now and surely looks good.

Sincerely

R-1074

Mr Maurice Tingey — Weston Idaho

June 25, 1962

RE: Permit No. R-1074

W. Emurion Tingey
Weston, Idaho

Dear Mr. Tingey:

Enclosed are one Form 15R, two forms 10 and one Form 11, with instructions, as requested in your letter of June 25.

You did not say that the water was being used beneficially, however we assume that if the dam is complete you are using the water. If you are not ready to prove beneficial use of the water, you may retain the Forms 10 and 11 with instructions for later use and complete only Form 15-R for completion of works.

Return Form 15-R with the $5.00 fee and the Certificate of Completion of Works will be issued.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

Ralph W. Thomas
Deputy State Reclamation Engineer

RWT:mr

Enc. Form 15-R
Form 10 2
Form 11
Instructions

R-1074

Form 15-R

RECEIVED
JUN 28 1962
Department of Reclamation

Permit No. R-1074

Proof of Completion of Works

DEPOSITION OF HOLDER

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. W Maurice Tingey - Farmer
Weston Idaho

Ques. 2. If acting on behalf of a corporation, state its name, principal place of business, your position with reference to same, and your authority for appearing in its behalf.

Ans.

Ques. 3. State number and date of permit, acre feet of water you claim for storage, and source of same. R-1074

Ans. 172 acre ft. unnamed Stream Tributary of Nash Hollow
Water Comes from winter & spring runoff
in the NE.SE., Sec. 12, T.16S.-R.38E.BM

Ques. 4. Under terms of permit construction was required to be completed by 5 years
Aug 11 1965

Ques. 5. Construction was actually completed on the date of August 30 1961

Ques. 6. Does the construction fully comply with the specifications? yes

2 Ques. 7. Of what material was the dam built? earth - rip rapped with gravel & Rock

Ques. 8. State whether or not the water has been turned into your reservoir, and if so, when and to what extent.

Ans. yes - water comes in all the time - excess goes out thru treade tube and over flow

Ques. 9. The capacity of the reservoir is pp 200 acre feet.

Ques. 10. The area of the high water line of the reservoir is ..... acres.

Ques. 11. The height of the dam above bottom of reservoir is 25 feet, above low water is about 12 feet.

2 Ques. 12. The dimensions of the spillway are 15 ft and the bottom of the spillway is 200 feet below the top of the dam.

2 Ques. 13. Dimensions of the reservoir outlet are emergency overflow 15 ft wide in Bottom lined with rock rip rap & Gravel

Ques. 14. Describe the gate and control unit. Has a cement collar 18 ft wide 6 ft deep with cement flow 12 ft below collar

Ans. Has 16 in Steel treade tube going into 14 in pipe thru bottom of reservoir, with Steel gate

Ques. 15. The reservoir outlet is made of Steel & Cement

Ques. 16. Is the reservoir filled through a feeder canal? no

Ques. 17. If so, where is the point of diversion for same?

Ans. ¼ ¼ Section, ... Twp. ..... Range .....

R-1074

Ques. 18. Does the feeder canal comply with the specifications in the permit? ✓

Ques. 19. If not, explain ✓

Ques. 20. Cost of constructing feeder canal? $ ✓ Cost of reservoir? $ 5,000 – This is the additional – total cost 11,000

Ques. 21. State whether or not the works from reservoir outlet to place of use are fully completed, and whether or not they comply with the specifications in permit. If not, explain.

Ans. fully completed & Comply

Ques. 22. Water has (has not) been delivered to place of intended use? has

Ques. 23. Give description of dam, state dimensions, and give slope of face both upstream and downstream. Also method and material for protecting against wave action.

Ans. 3 to 1 slope on front 2 to 1 slope on back – about 3 ft of gravel placed on front of dam to protect against rats and then reprapped with large rock

Ques. 24. State the purpose for which the water is to be used and give the place of use, and if for irrigation, state the number of acres, and give the legal description of same.

Ans. irrigation purposes –

T.W.p.S. R. 38E Sec 12. SW¼ 20 ac. SE¼ 40 ac. NE¼ 40 ac
NW¼ 40 ac. SW¼ 40 ac. SE¼ 40 acre – total 220 acres
T.W.p.S, R. 38E Sec 18 NW¼ 20 SW¼ 20 – 40 acres
260 acres

(Sign here) H. Maurice Lingey

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Weston, County of Franklin, State of Idaho, on this 27th day of June A.D. 1962.

Rachel Lett
Notary Public

My commission expires March 16th 1964

June 29, 1962

Re: Permit No. R-1074

W. Harrice Tingey
Weston, Idaho

Dear Mr. Tingey:

Returned herewith are the two Forms 10 and one Form 11 you submitted to this office and a form to amend the land list.

The date given, July 10, does not allow sufficient time for four weekly publications of the notice. That date should be about 40 days later than the date you send the forms to this office.

You show the place of use of the water in Section 12, which checks our record of the permit, however, you show land in Section 13, which is not shown in the permit. The permit shows W½W½, Section 16, T. 16 S., R. 39 E. If you wish to change the land, you should complete the amendment form, describing the land you wish to irrigate. There is a fee of $1.00 for recording an amendment which should accompany the amendment. Or the notice can be changed to agree with the permit.

Kindly change the date on the first line to allow time for four publications, change the land list or return the amendment at your earliest convenience.

The proof of completion of works can be accepted and the certificate will be mailed to you within a few days.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

By:

RALPH W. THOMAS, Deputy
State Reclamation Engineer

RWTcw

R-1074

RECEIVED
JUL 2 1962
Department of Reclamation

Application for Amendment

LAND LIST

Permit No. R 1074

H. Maurice Tingey, Weston Idaho, and represents

[illegible] RECLAMATION ENGINEER of the State of Idaho:

[illegible] he is the owner and holder of Permit to Appropriate the Public Waters of the [illegible] of Idaho, No. R 1074, and requests that the list of lands to be irrigated, [illegible]ribed in said permit, be changed to read as follows:

~~[illegible] Range Section~~ ~~no [illegible] actually irrigated~~

~~[illegible] 38 Section 12~~ ~~SW¼, NE¼ 9~~

~~SE¼, NE¼ 27~~

~~NE¼, SE¼ 28~~

~~NW¼, SE¼ [illegible]~~

~~SW¼, SE¼ [illegible]~~

~~Sec 13 NE¼, NE¼ [illegible]~~

~~Sec 12 SE¼, SE¼ 37~~

~~Sec 13 NW¼, NE¼ [illegible]~~

~~NE¼, NW¼ 13~~

SW¼ NE¼ SE¼ Sec 12; N½ NE¼, NE¼ NW¼, Sec 13, T 16 S., R 38 E.B.M.

_____, making a total of 258 acres.

That an additional amount of water is not asked for, and that the rights of others will not be adversely affected by such change.

Signed at Weston this 30 day of June July, 1962

H. Maurice Tingey

Date of receipt at office of Department of Reclamation July 2, 1962

APPROVAL OF STATE RECLAMATION ENGINEER

I, RALPH W. THOMAS, Deputy State Reclamation Engineer of the State of Idaho, hereby approve the above and foregoing application for amendment to Permit to Appropriate the Public Waters of the State of Idaho, No. R-1074. This approval constitutes a new permit and is issued as an amendment to the original permit, to which it refers, and of which it becomes a part, and said application is approved only insofar as the rights of others will not be adversely affected thereby.

Recorded in Book R-5 of Permits, Page 1074 [illegible] 2, 1962

Ralph W. Thomas
Deputy
State Reclamation Engineer

R-1074

July 2, 1962

Re: Permit No. R-1074

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

Enclosed is the Certificate of Completion of Works on your Permit No. R-1074.

Also enclosed is departmental receipt No. 31114 in the amount of $5.00 covering the fee.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

By:

RALPH W. TEEMAS, Deputy
State Reclamation Engineer

RT:cw

Enc. certificate
receipt

P. S. Also enclosed is amendment to the land list which has been recorded in this office, together with departmental receipt No. 31119 in the amount of $1.00 recording fee

Enc. amendment
receipt

R-1074

July 3, 1962

Re: Permit No. R-1074

Mr. W. Maurice Tingey,
Weston, Idaho.

Dear Mr. Tingey:

This acknowledges the Notice of Proof of ~~Completion of Works and~~ Application of Water to Beneficial Use under Permit No. R-1074. The proofs are to be made at 10:00 o'clock A.M., on the 10th day of August, 1962, before Rachel Lott, Weston, Idaho, Notary Public.

As of this date we have mailed the Notice to the Preston Citizen Preston, Idaho, with instructions to publish it once a week for four consecutive weeks prior to the date set for final proof then mail the affidavit of publication and statement of costs to you.

It is important that the enclosed depositions be executed by you and two disinterested witnesses who are familiar with the terms of the permit and the work done thereunder, at the place, on the date, and at the time and before the Notary, as advertised. It is very important and necessary that each question be answered in detail.

In returning the depositions to this office, be sure that all copies have been signed, the Notary's seal has been placed on each and that all depositions, (holder and two witnesses) are being returned. Also be sure to enclose the Affidavit of Publication.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

By:

(Mrs.) Edna P. Rule
Chief Clerk

Enc.
EPR:pmk
cc: Notary

R-1074

Form No. 11
2M - 10/60

RECEIVED
JUL 2 1962
Department of Reclamation

RECEIVED
JUN 28 1962
Department of Reclamation

NOTICE TO ACCOMPANY THIS LETTER MUST BE MADE IN DUPLICATE

(Date) 6-27-62

(P. O.) Preston Idaho

TO THE STATE RECLAMATION ENGINEER:

Boise, Idaho

Dear Sir:

You are hereby authorized to have the attached notice published at my expense in the Preston Citizen of Preston published in the county in which the works are situated.

H. Maurice Tingey

(In case of canals or other works designed to divert and carry more than 50 cubic feet of water per second, the following certificate must be signed by a well known and competent engineer.)

I hereby certify that the facts set forth in the attached notice are true.

Engineer.

R-1074

Form 10

RECEIVED
JUL 2 1962
Department of Reclamation

RECEIVED
JUN 28 1962
Department of Reclamation

NOTICE FOR PUBLICATION

NOTICE OF PROOF APPLICATION OF WATER

TO BENEFICIAL USE

Notice is hereby given that at 10 A.M. on the 10 day of ~~July~~ August, 1962 at Weston, County of Franklin, State of Idaho, before Rachel Tott (Lott), proof will be submitted of the application to beneficial use of 172 acre ~~cubic~~ feet per second of the waters of Unnamed Stream Trib. of Nash Hollow ~~Tingey Reservoir~~ in accordance with the terms and conditions of Permit No. R1074 heretofore issued by the Department of Reclamation of the State of Idaho.

The name and post office address of the person or corporation holding said permit NR 1074 W. Maurice Tingey, Weston, Idaho

The use to which said water has been applied is irrigation

The amount applied to beneficial use is 172 acre ft per annum

The point of diversion of said water is NE¼ SE¼ Sec 12, Twp 16 S., R. 38 E. B.M. Franklin County

The place where said water is used (LEGAL DESCRIPTION) S½ NE¼, SE¼, Sec 12; N½ NE¼, NE¼ NW¼, Sec 13, Tr 16 S. R. 38 E., B. M.

The date of priority which said user is prepared to establish is June 9, 1960

Geo. W. Carter

State Reclamation Engineer

R-1074

1200
6-28-61

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

Boise, Idaho

Re: Permit No. R-1074
W. Maurice Tingey

Date: July 3, 1962

Preston Citizen,
Preston, Idaho.

Gentlemen:

Enclosed you will find notice for publication, once a week for four consecutive weeks prior to August 10, 1962 the date set for proof; the expense of the publication is to be paid by the applicant W. Maurice Tingey, of Weston, Idaho to whom you should furnish proof of publication on or prior to the date set for proof.

Please acknowledge receipt of this notice and furnish this office with a copy or tear sheet of the first publication.**

Very truly yours,

Geo N. Carter

GEO. N. CARTER
State Reclamation Engineer

** If the first copy is not received in this office for checking purposes and errors appear in subsequent issues, it is possible that re-publication of corrected copy will be at your own expense.

Encl.

R-1074

NOTICE OF PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

Notice is hereby given that at 10 A.M. on the 10th day of August, 1962, at Weston, County of Franklin, State of Idaho, before Rachel Lott, proof will be submitted of the application to beneficial use of 172 acre feet per second of the waters of Unnamed stream, tributary of Nash Hollow, in accordance with the terms and conditions of Permit No. R-1074 heretofore issued by the Department of Reclamation of the State of Idaho.

The name and post office address of the person or corporation holding said permit R-1074 is W. Maurice Tinger, Weston, Idaho.

The use to which said water has been applied is irrigation.

The amount applied to beneficial use is 172 acre feet per annum.

The point of diversion of said water is NE¼, SE¼, Sec. 12, Twp. 16 S., R. 38 E., B. M.

The place where said water is used is S½ NE¼, SE¼, Sec. 12; N½ NE¼, NE¼ NW¼, Sec. 13 T. 16 S., R. 38 E., B.M.

The date of priority which said user is prepared to establish is June 9, 1960.

GEO. M. CARTER
State Reclamation Engineer

First Pub. July 12, 1962
Last Pub. Aug. 2, 1962

July 13, 1962

R-1074
W. Maurice Tingey

Preston Citizen
Preston, Idaho

Gentlemen:

In paragraph 5 of the legal notice on Permit No. R-1074, point of diversion should read NE¼SE¼, Sec. 12, Twp. 16 S., R. 38 E., B.M.

Please correct in subsequent issues and send us a tear sheet for proofing.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

H. Petri
Water Rights Clerk

HP:mr

R-1074

FRANCIS J. RASMUSSEN
DISTRICT JUDGE
THIRTEENTH JUDICIAL DISTRICT
STATE OF IDAHO

RESIDENCE CHAMBERS
SODA SPRINGS, IDAHO
P. O. BOX 668
TELEPHONE 547-3193

D. RICHARD TELFORD
OFFICIAL REPORTER
P. O. BOX 581
TELEPHONE 547-3193

July 30, 1962

RECEIVED
JUL 31 1962
Department of Reclamation

State of Idaho
Department of Reclamation
State House
Boise, Idaho

Re: Permit No. R-1074
W. Maurice Tingey

Dear Sirs:

Would you send me a copy of the above permit? Please bill me for the cost.

It is possible this is interfering with a prior decreed right of a water user lower down the drainage.

Thank you.

Sincerely,

Francis J. Rasmussen
District Judge

FJR/dt

cc - Mr. Kenneth P. Child,
Weston, Idaho
Mrs. Elsie Rasmussen
1034 Darling Street,
Ogden, Utah

$2.00

Pd

R-1074

August 1, 1962

Re: Permit No. R-1074
W. Maurice Tingey

Francis J. Rasmussen
District Judge
P. O. Box 668
Soda Springs, Idaho

Dear Sir:

Enclosed is the copy of Permit No. R-1074, in the name of W. Maurice Tingey, requested by you on July 30th.

The fees for making this copy will be $2.00 which should be mailed to this office.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

By:

(Mrs.) Edna P. Rule
Chief Clerk

RTsow

Enc. copy of permit

R-1074

August 7, 1952

Re: Permit No. R-1074
W. Maurice Gingey

Francis J. Rasmussen
District Judge
P. O. Box 668
Soda Springs, Idaho

Dear Sir:

We enclose departmental receipt No. 31171, in the amount of $2.00 covering the fee for copy of the above numbered permit, requested by you on July 30th.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

By:

(Mrs.) Edna P. Rule
Chief Clerk

EPR:cw

R-1074

RECEIVED
AUG 10 1962
Department of Reclamation

BEFORE THE DEPARTMENT OF RECLAMATION OF THE

STATE OF IDAHO

AFFIDAVIT AND PROTEST OF THE ISSUANCE OF PERMIT NO. R-1074 to W. MAURICE TINGY AT WESTON, IDAHO.

STATE OF IDAHO)
) ss.
County of Ada)

BLAINE F. EVANS, being first duly sworn deposes and says: That he is an attorney licensed to practice law in the State of Idaho; that he files this Affidavit for and on behalf of ELSIE L. RASMUSSEN;

That W. Maurice Tingy at Weston, Franklin County, Idaho, has filed an Application No. R-36766 and has tentatively been issued Permit No. R-1074 by the Department of Reclamation of the State of Idaho for the beneficial application of certain water in an unnamed stream of Nash Hollow River, the outlet to which is in the North 34° 30' East 1700 feet from the Southeast corner of Section 12, Township 16 South Range 38 East, B.M. in Franklin County, Idaho;

That the said Elsie L. Rasmussen, acting by and through her attorney Blaine F. Evans, protests the statements made by the said W. Maurice Tingy and the issuance of said permit and the granting of said application for the following reasons:

1. That on April 12, 1921, the District Court of the Fifth Judicial District of the State of Idaho, in and for the County of Franklin, issued a Decree which in pertinent part provided:

> "NOW, THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED that the plaintiff Lars M. Rasmussen and Lars M. Rasmussen, Jr. are the owners in possession and entitled to the possession of two cubic second feet of the waters of Weston Slough in Franklin County, Idaho, as of the priority of June, 1877, appurtenant to the West Half of the Southwest Quarter, the Southeast Quarter of Southwest Quarter, Southwest Quarter of Southeast Quarter of Section 17, Township 16 South, Range 39 E.B.M."

2. That said court in said case further found that the plaintiff, Lars M. Rasmussen, Jr., owned the land, that it was desert and arid and required said water for purposes of artificial irrigation; that the said Elsie L. Rasmussen has succeeded to all the right, title, and interest of the said Lars M. Rasmussen, Jr.

ELAM, BURKE AND JEPPESEN
ATTORNEYS AT LAW
BOISE, IDAHO

P-097

in and to said land; that the said Elsie L. Rasmussen is the widow of Lars M. Rasmussen, Jr.; that said court further found that since the month of June, 1877, the said Lars M. Rasmussen, Jr. and his predecessors in interest had diverted by means of dams and ditches and commenced to use for agricultural purposes all the water of that natural drain of Weston Slough running through Sections 17, 18 and 7 to a point on the Nash Reservoir in Section 36; that since the date of said Decree the said Elsie L. Rasmussen has continuously diverted said water to a beneficial use and is using all of said water and intends to continue to use the same; that the said Elsie L. Ransmussen has rights to said water prior to the rights that W. Maurice Tingy is attempting to obtain in his application.

Blaine F. Evans

SUBSCRIBED AND SWORN to before me this 10th day of August, 1962.

Notary Public for Idaho
Residing at Boise, Idaho

ELAM, BURKE AND JEPPESEN
ATTORNEYS AT LAW
BOISE, IDAHO

August 14, 1962

Re: Permit No. R-1074

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

Enclosed is a copy of a protest received in regard to your permit.

No action will be taken by this department until after the field examiner's report on your project has been received.

Very truly yours,

GEO. B. CARTER
State Reclamation Engineer

By:

RALPH W. THOMAS, Deputy
State Reclamation Engineer

RT:ew

Enc. copy of protest

R-1074

Weston Idaho
Aug 15, 1962

RECEIVED
AUG 20 1962
Department of Reclamation

Geo H Carter
Boise Idaho.

Dear Mr Carter;

I received your letter today with the protest of Elsie Rasmussen. My water permit does not interfer with her water right. Mine comes from winter storage.

I have been letting app- or more 1/2 second foot of water run out of the reservoir all the time. Sometimes there is more coming in - but then for several days there will be none. On an average more goes out than comes in. Mrs Rasmussen gets more this way than if she got the flash.

I'm talking it over with Lee Reuter and two other farmers who have a right there - we decided maybe if possible - I would put

R-1054

a ditch around the reservoir to carry these water.

I hope the field examiner will contact me when he comes down.

These papers are completed I'm sending them. You can keep them on file until a decision is made.

Sincerely
H. M. Frigey
Weston, Idaho

R-1074

No. 406

RECEIVED
AUG 20 1962
Department of Reclamation

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO, } ss.
County of Franklin }

Clon E. Smith
being duly sworn,

deposes and says:

That he is the Publisher of THE PRESTON CITIZEN, a weekly newspaper published at Preston, in the County of Franklin and State of Idaho; that said paper has been and is in general circulation in the county aforesaid, and in the vicinity of Preston; that the advertisement, a copy of which is attached hereto, was published in said newspaper once a week for four consecutive weeks in the regular and entire issue of said paper during the period and time of publication, and was published in the newspaper proper and not a supplement; that said paper has been established and regularly published for more than seventy-eight consecutive weeks prior to the date of first publication of said advertisement.

Such notice was published in the issue beginning with July 12, 1962, and ending with the issue of August 2, 1962

Clon E. Smith

Fees, $ 17.63

Subscribed and sworn to before me this 16 day of August 1962.

P. McCordie
Notary Public, Residing at Preston, Idaho

My Commission Expires Nov. 29, 1962

NOTICE OF PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

Notice is hereby given that at 10 A.M. on the 10th day of August, 1962, at Weston, County of Franklin, State of Idaho, before Rachel Lott, proof will be submitted of the application to beneficial use of 172 acre feet per second of the waters of Unnamed stream, tributary of Nash Hollow, in accordance with the terms and conditions of Permit No. R-1074 heretofore issued by the Department of Reclamation of the State of Idaho.

The name and post office address of the person or corporation holding said permit R-1074 is W. Maurice Tingey, Weston, Idaho.

The use to which said water has been applied is irrigation.

The amount applied to beneficial use is 172 acre feet per annum.

The point of diversion of said water is NE¼, SE¼, Sec. 12, Twp. 16 S., R. 38 E., B. M.

The place where said water is used is S½ NE¼, SE¼, Sec. 12; N½ NE¼, NE¼ NW¼, Sec. 13 T. 16 S., R. 38 E., B.M.

The date of priority which said user is prepared to establish is June 9, 1960.

GEO. N. CARTER
State Reclamation Engineer

First Pub. July 12, 1962
Last Pub. Aug. 2, 1962

R-1074

Form 16.

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

RECEIVED
AUG 20 1962
Department of Reclamation

Permit No. R 10274

Proof of Application of Water to Beneficial Use

Deposition of Holder

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. [illegible] Farmer [illegible]

Ques. 2. If acting in behalf of corporation, state its name, principal place of business (if a foreign corporation, give name of postoffice of statutory agent), your position with reference to same, and your authority for appearing in its behalf.

Ans.

Ques. 3. State number and date of permit, and date of priority you propose to establish under the permit.

Ans. R 10274 - Aug 4, 1960 - June 2, 1962

Ques. 4. State source of water supply and give exact location of point of diversion.

Ans. Unnamed stream - tributary of Hoch Hollow
N 34° 30' E 1200 ft distant from the S.E Cor of Sec 12, Township 16 S. R. 38 E.B.M. County of Bonneville and in the NE SE of Sec. 12.

Ques. 5. Describe your works of diversion, and state amount of water they are capable of conveying from point of diversion to place of use, and give name of canal or ditch or other works by which water is conducted to such place of use. If a well, state depth of well, depth and size of casing and depth to water. If pump is used, state discharge of pump and tell how it was measured or determined. If sprinkler irrigation, give number and size of nozzles and operating pressure.

Ans. Open ditch and water pumped onto land - Pump 5 HP engine - Pump 600 gal per min. Weirs - Tube also pumped into pipe line - Sprinkler used for flooding - 3 inch pump

Ques. 6. State for what purpose water is used and describe place of use. (If for irrigation, name each subdivision in which used, and number of acres in each subdivision that have actually been irrigated with said water.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Irrigation - Cultivated -

Twp	R	Sec		
			SW¼ NE¼	4
16 S.	38 E.	12	SE¼ NE¼	27
			NE¼ SE¼	28
			NW¼ SE¼	24
			SW¼ SE¼	40
			SE¼ SE¼	37
		13	NE¼ NE¼	40
			NW¼ NE¼	40
			NW¼ NW¼	48
				338

Ques. 6-a If this is a ground water permit, give name and address of person that drilled the well.

Ans. [illegible]

R-10274

Ques. 7. If for other than irrigation purposes; state how applied, amount of horse power generated, etc.

Ans. .....

Ques. 8. What is the minimum amount of water required for the purpose specified above?

Ans. 1 acre ft per acre

Ques. 9. If you are not the person or representative of the corporation to whom above mentioned permit was originally issued, please state how ownership was acquired by present holder.

Ans. .....

Ques. 10. State when, how, in what amount and to what extent the water diverted under above mentioned permit has been used.

Ans. All water in Reservoir has been used each year - on grain - 3 times per year - potatoes and beet 8 to 10 times per year

Ques. 11. State when, how, in what amount and to what extent waters other than those diverted under the above mentioned permit have been diverted and applied to beneficial use upon the lands herein described. Give full particulars regarding such other appropriations and rights claimed thereunder.

Ans. We have 146 shares of town lakes canal water this has also been used on farm

(Sign) H. Maurice Tingey

I hereby certify that the foregoing testimony was read to the above subscribed before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me, at my office in Weston, County of Franklin, State of Idaho, on this 10 day of Aug, A. D. 1962

Rachel Lott
Notary Public

My commission expires Mar 16 1965

Form 17

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

RECEIVED
AUG 20 1962
Department of Reclamation

PERMIT NO. R 1074

Proof of Application of Water to Beneficial Use

Deposition of Witness

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. Morris Leon Jeppson 61 yrs Weston Farmer @ Weston knew him when he was a boy and again in Weston

Ques. 2. Are you acquainted with H. Maurice Tingey, the holder of Permit No. R1074? How long have you known him and where does he reside?

Ans. Known him past 3 yrs 8 months he resides at Weston

Ques. 3. Have you read or heard read said Permit No. R 1074, and are you familiar with its provisions and conditions?

Ans. yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

Ans. Unnamed Stream tributary of Nash Hallow N 34° 30' E 1700 ft distant from the SE Corner of Section 12 township 16S R 38 E. B.M. County of Franklin - Weston Idaho

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. 600 gal per minute thru Volume guns - 3 sec ft thru open ditch

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Irrigation

Twp	R	Sec			
			SW 1/4	NE 1/4	9
16S	38E	12	SE 1/4	NE 1/4	27
			NE 1/4	SE 1/4	28
			NW 1/4	SE 1/4	24
			SW 1/4	SE 1/4	40
			SE 1/4	SE 1/4	37
			NE 1/4	NE 1/4	40
			NW 1/4	NE 1/4	40
		13	NE 1/4	NW 1/4	13
					258 acres

R-1074

Ques. 7. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. _____

Ques. 8. If for irrigation, state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation.

Ans. Minimum of 1 acre ft per acre - some clay loam, some sandy loam - most of land level - but some sloping in Hall-

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. No

Ques. 10. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. We used water on Reservoir every year - last two years has been dry and this water has saved Crop

(Signed) Morris Leon Jepson

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Weston, County of Franklin, State of Idaho, on this 16 day of Aug, A. D. 19 62.

Rachel Lott

Notary Public.

My commission expires March 16th 1965.

Form 17

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

RECEIVED
AUG 20 1962
Department of Reclamation

PERMIT NO. R 1074

Proof of Application of Water to Beneficial Use

Deposition of Witness

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. Clyde Nielsen - 54 - Weston Idaho Farmer

Ques. 2. Are you acquainted with H. Maurice Tingey, the holder of Permit No. R1074? How long have you known him and where does he reside?

Ans. Yes about 40 yrs Weston Idaho

Ques. 3. Have you read or heard read said Permit No. R1074, and are you familiar with its provisions and conditions?

Ans. yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

Ans. ~~3 sec ft of water thru open ditch - when in use 600 gal per minute thru Volume guns.~~
unnamed Stream - tributary of Nash Hollow
N 34°30' E 1700 ft distant from the SE Corner of Sec 12, Township 16
R 38 E.B.M. County of Franklin - Weston Idaho

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. 3 sec ft of Water thru open ditch - when in use 600 gal per minute thru Volume guns

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Irrigational purposes	Twp	R	Sec		
	16S	38E	12	SW¼ NE¼	9
				SE¼ NE¼	27
				NE¼ SE¼	28
				NW¼ SE¼	24
				SW¼ SE¼	40
				SE¼ SE¼	37
				NE¼ NE¼	40
			13	NW¼ NE¼	40
				NE¼ NW¼	13
					258 acres

R-1074

Ques. 7. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. _____

Ques. 8. If for irrigation, state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation.

Ans. sandy + clay loams - mostly quite level - but some sloping in hollows - a minimum of 1 acre ft per acre

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. No

Ques. 10. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. during the drouth the last two years - water has saved crops - all used to good advantage.

Edgar Nielsen

(Signed)

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Weston, County of Franklin, State of Idaho, on this 10 day of Aug-, A. D. 19 62.

Rachel Lott

Notary Public.

My commission expires Mar 16 1965.

IM April 1962

August 21, 1962

Re: Permit No.
R-1074

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

We acknowledge receipt of the depositions of holder and two witnesses, also affidavit of publication in the Preston Citizen, all submitted in proof of ~~completion of works~~ and beneficial use on Permit No. R-1074.

Before final action is taken in the matter, the law requires that a field examination be made by an engineer from this department.

We cannot tell just when this examination will be made, but our field engineer will try and contact you at the time he makes the examination so that arrangements may be made to show him over the grounds.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

By:

(Mrs.) Edna P. Rule
Chief Clerk

EPR:

R-1074

Heston Idaho
10-30-62

RECEIVED
NOV 1 1962
Department of Reclamation

George H. Carter
State Reclamation Engineer.
Boise, Idaho.

Dear Mr. Carter.

In refering to your letter of Aug 21, 1962. Wherein you stated you had received the application for my waterright. Permit No R 1074.

You stated a field examination would be necessary by an engineer.

I have been wondering if an engineer has come down and I didn't get to see him.

This past year, I have had quite a bit of sickness. Had to have a tumor removed from my head. I am unable to do heavy work any more, because of weakness left in my left side. Because of this I have had to sell the farm -

2
R-1074

Cannot Complete the papers until I get this permit O.K.ed.

Last summer I met with representatives of the three farms who have water rights below me.

Their water rights call for water during summer of irrigator months. I have been letting an even stream of water flow at the type. This helps the Bowman farm but not the others. They benefit only when a extra large stream comes.

We decided maybe it would be best to put a ditch around the reservoir so that all water would get down to them when it come.

Sometimes there will be a large stream come for maybe 10 or 12 days and then for several days there will be none.

We know and realize that any waterright would consist only of water that could be stored during the

winter months.

Last year and this year also the reservoir has been filled by the 1st of December. Twin Lakes Canal Co and Weston irrigation Co send down streams for stock and I can divert them into my reservoir.

Every since the reservoir has been built, I have got along with the people below me. They seem to be concerned because, I have sold to others. However, I am selling the farm on a contract and the new people realize the water situation.

I sincerely hope we can get this settled as soon as possible. Land taxes & water taxes are now due and I am unable to do anything until it is.

Yours Very Truly
H. Maurice Tingey
Weston Idaho

R-1074

November 1, 1962

Re: Permit No. R-1074

Mr. Maurice Tingey,
Weston, Idaho.

Dear Mr. Tingey:

We received your letter of October 30th. Sorry to hear of your illness. Hope you recover soon.

We will try to have the examination of your reservoir completed in the near future, possibly the first part of next week. The field examiner is not in the office today and we are not sure of any appointments he may have made for next week.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

RALPH W. THOMAS, Deputy
State Reclamation Engineer

RWT:pmk

R-1074

IN RE PERMIT NO. R-1074

W. Maurice Tingey, Holder

ORDER, Dismissing Protest and Allowing License and Certificate of Water Right

W. MAURICE TINGEY of Weston, Idaho made proof of beneficial use of water under Permit No. R-1074 on August 10, 1962.

Elsie L. Rasmussen, through her attorney, Blaine F. Evans, protested issuance of the License and Certificate of Water Right under said Permit, claiming prior right to a decreed right to 2.0 cubic feet per second from Weston Slough, which was received August 10, 1962.

Examination on the ground discloses that the dam was constructed according to plans which had been approved by the State Reclamation Engineer.

The State Reclamation Engineer, by granting subsequent water license, cannot interfere in any manner with vested rights of prior appropriators.

The protest by Elsie L. Rasmussen, through her attorney Blaine F. Evans, is hereby dismissed and the License and Certificate of Water Right will be issued to W. Maurice Tingey in the amount found to be warranted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the State Department of Reclamation, at Boise, Idaho, this 6th day of November, 1962.

Deputy State Reclamation Engineer

November 6, 1962

RE: Permit No. R-1074
W. Maurice Tingey

Blaine F. Evans
Attorney at Law
First National Bank Building
Boise, Idaho

Dear Mr. Evans:

Enclosed is a copy of Order, Dismissing Protest and Allowing License and Certificate of Water Right on Permit No. R-1074 in the name of W. Maurice Tingey.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

(Mrs.) Edna P. Rule
Chief Clerk

EPR:mP

Enc. order

R-1074

November 6, 1962

RE: Permit Nos. R-945, R-1074

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

We enclose License No. R-1074.

The plans of your dam and the engineer's report on Permit No. R-945, which has been licensed, show that your reservoir will store 126.0 acre feet of water to irrigate 258 acres of land in the SE¼NW¼, SW¼, Sec. 12; N½NE¼, NE¼NW¼, Sec. 13, T. 16 S., R. 38 E., B.M. License No. R-945 shows 77.67 acre feet of water, leaving 48.33 acre feet which can be stored under this permit.

State Statutes provide that you may store excess water, and that during the irrigation season, you must allow all appropriated water entering the reservoir to flow out the lower end. A ditch around the reservoir would be the simplest method of taking care of the lower water rights.

There is no fee for this license as the fee was paid under License No. R-945.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

Ralph W. Thomas
Deputy State Reclamation Engineer

RWT:mr
Enc. license
dismissal of protest

R-1074

November 6, 1962

RE: Permit Nos. R-945, R-1074

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

We enclose License No. R-1074.

The plans of your dam and the engineer's report on Permit No. R-945, which has been licensed, show that your reservoir will store 126.0 acre feet of water to irrigate 258 acres of land in the SE¼NE¼, SE¼, Sec. 12; N½NE¼, NE¼NW¼, Sec. 13, T. 16 S., R. 38 E.,B.M. License No. R-945 shows 77.67 acre feet of water, leaving 48.33 acre feet which can be stored under this permit.

State Statutes provide that you may store excess water, and that during the irrigation season, you must allow all appropriated water entering the reservoir to flow out the lower end. A ditch around the reservoir would be the simplest method of taking care of the lower water rights.

There is no fee for this license as the fee was paid under License No. R-945.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

Ralph W. Thomas
Deputy State Reclamation Engineer

RWT:mr
Enc. license
dismissal of protest

R-1074

NOV 9 1962

November , 1962

Weston, Idaho

RECEIVED
NOV 9 1962
Department of Reclamation

State Reclamation Engineer
State Capitol Building
Boise, Idaho

Dear Sir:

You may deliver Certificate R1074 to The Prudential Insurance Company of America at its office at Boise, Idaho, as soon as you issue the certificate. The Prudential is making me a mortgage loan and I desire to turn the certificate over to The Prudential in connection with that loan.

Sincerely yours,

W. Maurice Tingey

Ruth B. Tingey

R-1074

November 9, 1962

RE: Permit No. R-1074

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

Enclosed is the Order of Dismissal of Protest to the allowance of the License and Certificate of Water Right No. R-1074.

The license has been handed to Mr. George Nodell, Attorney at Law, from The Prudential Insurance Co. of America as you requested in your letter.

Very truly yours,

GEO. H. CARTER
State Reclamation Engineer
By

(Mrs.) Edna P. Rule
Chief Clerk

EPR:mr

Enc. order

R-1074

Form 23

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

BOISE

REPORT OF ENGINEER

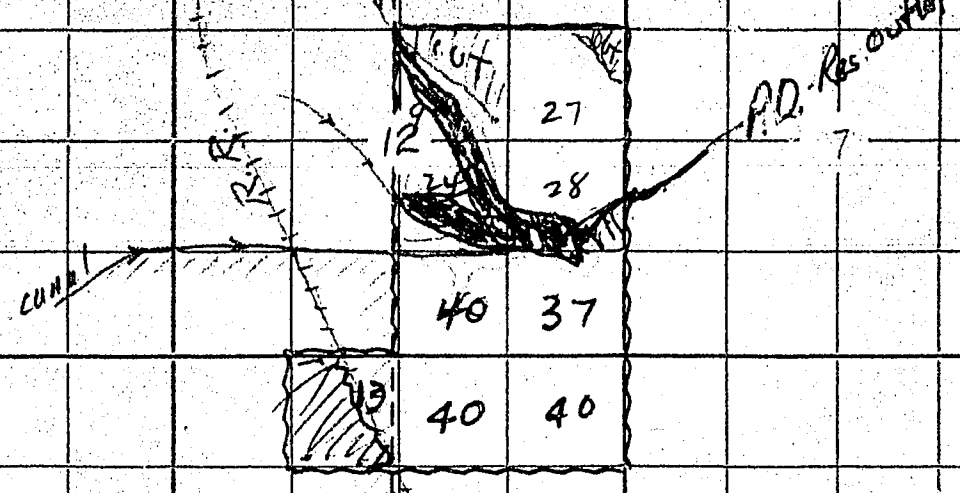
PERMIT NO. R-1074

REPORT ON PROOF OF Beneficial Use

W. Maurice Tingey, Weston, Idaho

R-1074

R-38 E.



T. 16 S.

24

19

Subdivision: Same as examined under Permit # R-945

AREA 258 Acres

Q 48.33 ~~138~~ Acre Feet.

R 10.74 / 26 00
R-945 - 77.67
48.33 AF additional

Scale: 2 Inches Equals 1 Mile. Draw Map In Ink.

Form 23

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

BOISE, IDAHO

REPORT OF ENGINEER

Permit No. R-1074

This proof is for Beneficial Use In Water District No.

1. Name of applicant W. Maurice Tingey
2. Source of water supply: an un-named stream
3. Location of point of diversion: Is in the NE¼SE¼ of Section 12

T. 16S R. 38 E.B.M. County of Franklin

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

RECORD OF DAMS

Permit No. R-~~945~~ 1074

File No.

Name of Dam: Tingey Dam Stream: Unnamed Streams

Name of Owner: W. Maurice Tingey Location: NE¼ SE¼ Sec 12, T16S. R.38E.

Type: Earth Fill Purpose: Irrigation Constructed: 1955

Engineer: H.J. Woodward, Eng. SCS. Franklin Co. Contractor: Evan Koller

DIMENSIONS OF DAM

Length on Bottom:	140' Ft.	Length on Crest:	680' Ft.
Height above Stream Bed:	29' "	Depth to Bedrock:	— "
Top Width:	18' "	Upstream Slope:	3:1
Freeboard:	4½' "	Slope Protection:	Rock - 3" to 12" size upstream
Downstream Slope:	2:1	Watershed Area:	Approx. 3 sq. miles
Area of Reservoir at Spillway Level	16 Acres.	Capacity of Reservoir	126 Acre Feet.

No. Protection on downstream side

Description of Foundation, including Cut-off Walls and other Precautions as to Safety: Excavated trench and back filled compacted Core. Concrete head wall around Inlet and Outlet of Conduit. 5 Cutoff Collars spaced on 15' centers around upper 2/3 of Conduit.

Dimensions and Description of Spillway: Top width 26' bottom width 13', 4½' deep with a 3' long Concrete controll in contour of bottom.

Dimensions and Description of Outlet Works, Gate Hoisting Mechanism, etc.: 14"x160' smooth steel, 14 ga. pipe. There is 6" concrete with 5-5' concrete collars around steel Conduit pipe. 14" screw type controll gate. There is a 16"x19.5 feet trickle tube just behind head gate to handle small amounts of inflow above full capacity of Reservoir. Conduit is 3.5' above and 20' south of main chanel of unnamed stream so dam site cannot be drained approximately a surface area of 2 acre feet remain in bottom State Fish + Game Comm. stock Reservoir.

above conduit

Historical: Dam constructed with dirt removed from North and South banks of Reservoir and is of red clay. Scraped from sides with a Carryall and compacted with a Sheeps foot Roller.

Origonal height was 22', but was raised to 29' in 1960 (see Permit R-1074)

Present points of diversion is any place around permiter of Reservoir by use of portible pump and sprinkler Systems.

Remarks: The origonal dam was 22' high and covered approximately 9 acres with a content of 60 Acre feet.

Future plans call for a pump in a sump at the outlet of dam into a permenant sprinkler irrigation system.

Water from Local Irrigation System is dumped into reservoir when not being used.

Information compiled by:

Date: September 27th, 1961 Layn Johnson

This was examined on the above date under Permit # R945 - The extension and present dam was in use at that time. Since the dam wasn't examined as built under Permit # R-945 it was licensed for the amount advertised - 77.67 AF. The extension on the old dam raised the capacity to 126 Acre Feet. making a total allowable storage for Permit # R-1074 of 48.33 AF.

R-1074

Nov. 5, 1962 Layn Johnson

4. Describe works as they exist, giving dimensions and capacities of same:

5. Water is used for: irrigation

6. State whether or not water has been turned into works of diversion:

7. List legal subdivisions of lands to be irrigated. If proof is for beneficial use, give exact number of acres under cultivation in each forty-acre tract. (Describe manner and place of use if other than irrigation):

S½NE¼, SE¼ Sec. 12., N½NE¼, NE¼NW¼ Sec. 13., Twp. 16 S., Rge. 38 E.B.M.

Making a total of 258 acres.

(Submit map on attached plat, showing location and details of above description.)

8. What large stream would the water here appropriated finally reach?

Remarks:

This examination was made on the 5th day of November, 1962

(Signed) [signature]

Examiner.

R-1074

W. Maurice Tingey
Weston, Idaho

Permit No. R-1074

Examination for Beneficial Use

County Franklin

Quantity: 172 A.F. **Sec.** 12 **T.** 16S **R.** 38 E.B.M.

Source: Unnamed Stream

P. D.: NE.SE., Sec. 12, T.16S.-R.38E.B.M.

Use: Irrigation

Filed: June 9, 1960

Due: Aug. 1, 1966

Extension: ——

Protest: ——

Completion of Works: 7-2-62

Other Rights: 146 shares Twin Lakes Irrigation Co. water
15 shares Weston Ct. Irrigation Co. water

INSTRUCTIONS TO EXAMINERS

1. Always carefully note the location of the point of diversion and accurately plat same.
2. When proof is for beneficial use, carefully check up the number of acres actually irrigated in each forty and accurately plat same.
3. Make a map showing the correct location of streams and ditches, and the irrigated lands, and any adjacent permanent landmarks, such as towns, lakes, large streams and public roads.
4. If any unusual conditions are discovered, make plain statement of them under remarks.
5. Always see the holder, if possible, and go over the whole ground with him and make your report only upon actual existing facts and conditions.
6. Give general characteristics of soils, topography, and crops raised.

RECEIVED
NOV 5 1962
Department of Reclamation

7511

13-2299

State of Idaho
License and Certificate of Water Right

Water License No. R-1074 Amount 48.33 Ac. Ft.

Water District No. Priority June 9, 1960

THIS IS TO CERTIFY that W. MAURICE TINGEY

of Weston, Idaho, made application for a permit to appropriate the public waters of the State of Idaho, dated June 9, 19 60; that Permit No. R-1074 was issued under said application; that Certificate of Completion of works, with a carrying capacity of 172 acre second feet, was issued thereunder on July 2, 19 62, showing that said works were completed on the 27th day of June, 19 62; and that on the 10th day of August, 19 62,

W. MAURICE TINGEY

of Weston, State of Idaho, made proof to the satisfaction of the State Reclamation Engineer of Idaho, of the right to use the waters of unnamed stream, a tributary of Nash Hollow, for the purpose of irrigation, under Use Permit No. R-1074 of the Department of Reclamation and that said right to the use of said waters has been perfected in accordance with the laws of Idaho, and is hereby confirmed by the State Reclamation Engineer of Idaho and entered of record in Volume 12 of Licenses at page 7511, on the 6th day of November, 19 62;

The right hereby confirmed dates from June 9, 19 60;

The Point of Diversion is located

in the NE ¼ SE ¼, Sec. 12, Tp. 16 S R. 38 E, B. M. Franklin County

That the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually needed and beneficially used for said purposes, and shall not exceed 48.33 Ac-ft ~~cubic feet per second~~.

Description and location of use:

Twp.	Range	Sec.	Forty-acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
16 S	38 E	12	SW¼ NE¼	20	9
			SE¼ NE¼	40	27
			NE¼ SE¼	40	28
			NW¼ SE¼	40	24
			SW¼ SE¼	40	40
			SE¼ SE¼	40	37
		13	NE¼ NE¼		40
			NW¼ NE¼		40
			NE¼ NW¼		13
			Total number of acres to be irrigated:		258

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, as provided by the laws of Idaho.

WITNESS the seal and signature of the State Reclamation Engineer, affixed at Boise, Idaho, this 6th day of November, 19 62.

/s/ RALPH W. THOMAS
Deputy State Reclamation Engineer.

(SEAL)

13 2299

LOY:

A protest has been received in regard to this filing.

See jacket.

Edna

LOY:

A protest has beem received in regard to this filing.

LOY:

A protest has been received agsin issuing a livense

2-10-77