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five river piers consisting of two cylinders each of 8.4-%" in diameter, driven to a depth of thirty feet below low water line and capped with concrete.

All material and equipment for the construction of the piers is now on the ground. A complete camp is now maintained and actual construction work on the piers is now under way.

A great amount of this work must be done during the winter season in order to take advantage of the low stages of water in the river. This adds to the arduousness of the work. No precaution has been spared to keep to the desired program in completing this bridge in a substantial way.

It is hoped to complete this project in the early spring of 1924.

REPORT ON FOREST ROAD COOPERATIVE PROJECTS

BY

BUREAU OF PUBLIC ROADS U. S. DEPARTMENT OF AGRICULTURE

Period 1921 and 1922

(Cooperative Projects Only)

C. W. CHEATHAM Assistant District Engineer

PROJECT	Allotments to Dec. 31, 1920				Allotments Calendar Years 1921 and 1922		Total Allotments to Date	
	Fed. Govt.	Territory	A. R. C.	Total	Federal	Territory	Federal	Territory
FIRST DIVISION			1					
Tongass Nat'l Forest		ļ	1					
K'chikan-Wards Cove						\$5,700.00	148,669.27	\$35,000.00
Juneau-Eagle River Petersburg-Scow Bay Auk Lake-Eagle River	18.300.00			58.952.85 31.982.86 3.000.00	9,000.00	2,500.00	27.300.00	11.315.57
Portage Road Salmon River	20.000.00	7,500.00		31.028.77	34,000.	6,000.	84.000. 123.455.47	26.000 750.00
Glacier Highway (Tee Harbor Sec.) Mendenhall Loop Maintenance			:			750.00 7.500.00 4.395.00	17,336.00 4,395.00	7,500.00
THIRD DIVISION		Į	}					
Chugach Nat'l Forest		1	: 		1			
Seward-Kenai Lake Quartz CrRuss'n Riv. Cordova Eyak Lake	45.000.00	15,000.00	1.000.00	31,000.	41,950.00 91,000.00	3,600.00	21.950.00 45.000.00 119.000.00	15.000.00 3,600.00
Katalla Road Maintenance		6,000.00			1.000.00 4,445.00		19,000.00 4,445.00	

PROJECT	Grand Total all Funds	Reported Expenditures	Mch. 1921 Miles Const'd		& Miles Built s 1921 & 1922 Miles Built	REMARKS
FIRST DIVISION Tongass Nat'l Forest					(1.8	Miles Surfaced.
K'chikan-Wards Cove Juneau-Eagle River		\$91.201.63 58.952.85		\$44,800.44	(2.0 0.0 (0.5	Miles Constructed. Completed 1920. Mile Corduroy.
Petersburg-Scow Bay Auk Lake-Eagle River		30,506.61	$3.1 \\ 54.0 \\ 6.0$	12,173.48	(2.5	Miles Surfacing, etc. Preliminary Investigation. Location Survey.
Portage Road Salmon River	31,028.77	32.609.44 63.243.53	6.5	45,220.46	0.0 1.7 (15.5	Completed 1920. Grading Completed 1922. Survey.
Glacier Highway (Tee Harbor Sec.)	1			63,587.31 24.836.00	(4.0 (7.0 1.6	Construction. Clearing, Grubbing, Bridges. Constructed and Surfaced.
Mendenhall Loop Maintenance				7,753.05	1.0	Cooperative Agreement.
THIRD DIVISION Chugach Nat'l Forest) }				
Seward-Kenai Lake Quartz CrRuss'n Riv.		30.639.64 32.209.36		15.231.50 26.386.58	4.0 8.4 (4.5	Constructed. Constructed. Cleared and Grubbed.
Cordova-Eyak Lake Katalla Road	122.600.00 27.800.00	23.941.81 23.483.73	1.6 4.6	70.581.20 3,335.01	(3.0	Constructed. Repair and Reconstruction of Bridges, etc.
Maintenance	8.165.00	ĺ	I Ş	7.152.40		All projects under Coopera- ative Agreement.

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Ketchikan-Wards Cove (Tongass Highway)

Cooperative agreement executed by Secretary, June 7, 1922. 3.2 mlies were constructed and 2.3 miles surfaced prior to 1921. Since that date, approximately 2 miles have been constructed and 1.85 miles surfaced. The balance of the project, or 1.3 miles, is under construction and will be completed the coming season. Considerable heavy work and solid rock was encountered. A 14-foot roadway is being constructed.

Juneau-Eagle River Road

The Juneau-Eagle River agreement dated January 24, 1921. This project is 4 miles in length ,and grading was completed in 1920.

Petersburg-Scow Bay

Agreement dated July 23, 1921. Length 3.1 miles. The grading was completed in 1920, and some surfacing done in 1921 and 1922. The surfacing is not yet completed. Some surfacing has been put on all sections, but the available supply of local material has been exhausted, and it will be necessary to transport gravel a distance of about 5 miles to complete the work. Owing to the excessive amount of rain and the character of material in the road bed, also the fact that good surfacing is not available, the Department is seriously considering using crushed rock for surfacing the balance of the road. About three-fourts miles of surfacing remains to be completed.

Auk Lake-Eagle River

This covered the survey of the Mendenhall-Loop Section and the Tee Harbor and Eagle River roads. The work was done in 1920 and no further funds have been provided by the Territory.

Portage Road

No additional funds furnished by the Territory, or work done during 1921 and 1922.

Salmon River Road

Cooperative agreement dated October 13, January 22, 1921, and July 7, 1921.

The balance of this project, 1.7 miles, was completed and the entire distance surfaced where needed. Two pile jetties were constructed, one approximately 800 feet in length, and one about 400 feet in length. These were built to protect the road and the townsite of Hyder, also the approach constructed in 1922 with Forest Road funds.

Glassier Highway-Tee Harbor Section

Length 7.0 miles.

A location survey was made and a contract for construction let to Siems & Carlson. Four miles of grading has been completed and clearing and a portion of the grubbing done on the balance. The Territory appropriated only \$750.00 for this work.

Glacier Highway-Mendenhall Loop Section

Length 1.6 miles. Cooperative agreement dated May 24, 1921.

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This project was completed during the past season. Nearly all was surfaced, but some short sections need additional material. This, however, can be taken care of on maintenance. A 14 foot road was built and opened for traffic.

Seward-Kenai Lake Road

This covers sections I and II, a total distance of 7 miles. Section 1 was completed in 1920. Section II was surveyed in 1921, and a contract for construction let to Siems & Carlson in June, 1921. This section was practically completed and surfaced when work closed down November 1st. There remains about one-half mile to be completed.

Quartz Creek-Russian River Road

Seven miles of 12 foot road and 6 miles of sleigh road was completed in 1921. A survey of an additional 12 miles was made connecting with the Moose Pass-Sunrise Road. The plane and estimates, however, have not yet been worked up, but will be completed this winter.

Cordova-Eyak Lake

1.6 miles of this project was completed prior to 1921. Since that date a location survey was made and construction started on an additional 4.53 miles of 10 foot road. About 3 miles of this work has been done and the balance will be built the coming season. When this is completed the road will extend to the Territorial Fish Hatchery.

Katalla Road

Length 14 miles.

4.6 miles constructed in 1920. 9.4 miles in addition of old road was repaired, some new bridge and corduroy work done, and the road made passable to Chilkat. Bad portions of the road constructed in 1920 were surfaced and put in shape for wagon traffic.

Maintenance was done on all projects constructed under cooperative agreement up to December 31, 1921. \$4,395 Federal funds and \$4,395 Territorial funds were allotted in the First Division, and \$4,445 Federal and \$3,720 Territorial was allotted in the Third Division.

In addition to the above, the Department has made Preliminary Investigation Reports covering the above projects, some of which may become cooperative projects.

Hope District (Railroad Sunrise Sec.	36	Mile	4)	
(Resurrection Creek Sec.	8	**)	
(Suprise-Hope Sec.	9	**) 6.70	Miles
(Hope-Palmer Creek	- 14	••)	
Mile 39-Katalla		- • • • • • • • • •	32.0	"
Skagway-Summit		••••••	13.5	
Girdwood-Crow Creek			10.0	**
Sitka-Power Station			4.0	44
El Nido			2.0	**
Game Creek		•••••	4 5	28
Goddard Hot Springs			120	**
Goddard Hot Springs		•••••		
Unuk River (Not Completed25 Miles)				
Location surveys were made as follows:				
Tongass Highway				

Votebikan-Sayman	Section	******	2.0	
Section II	C	******	2,35	**

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Glacier Highway

Auk Bay to Eagle River	15.48
Silka Power Station	
Yakutat Cannery	1.00
Seward-Kenal Lake Sec. II & III	
Hope-Sunrise	8.70
Girdwood-Crow Creek	

The 1923 program has not yet been prepared, but no doubt the Territory will be asked to cooperate in the construction of some new projects, also furnish a portion of the maintenance funds as provided in Cooperative Agreements.

The 1923 Section 8 apportionment is \$43,764.00. These funds can only be expended on cooperative projects under the direction of the Department. To secure these funds, it will therefore be necessary for the Territory to supply funds in an amount acceptable to the Secretary.

In addition to the above requirements, existing cooperative agreements require the Territory to furnish an annual maintenance fund of approximately \$5,000.00 in the First Division and \$4,000.00 in the Third Division.