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August 2024

1938 Blueprint Maps & Information for Grand Lake Water System

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National Park Service Branch of Land Acquisition and Regulation Water Rights Section

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NATIONAL PARK SERVICE H OF LAND ACQUISITION AND REGULATION WATER RIGHTS SECTION

> 601 Sheldon Bldg., San Francisco, Calif., May 3, 1938.

MARSHAUDIM TO IR. JOSEPH E. TAYLOR, REGIONAL AFTORNEY:

Re: Grand Lake Water System,

Rocky Mountain National Park.

I enclose two prints of the map of the Grand Lake Area showing the Grand Lake Water System and its relation to existing decreed and filed claims. This map is a reduced scale photostat of the map from which I am preparing a tracing for filing, but the filed map, of course, will not show so much detail. I should like to have you discuss the matter with Mr. Canfield and be sure that I am working in accordence with his ideas.

Diversions

There will be three diversions, as follows:

- 1. The penstock diversion at the north line of Section 32, TAN, R75W.
- 2. The auxiliary domestic diversion near the power house of the Grand Lake Lodge System.
- 3. The auxiliary domestic diversion at the well, at the Grand Lake Ranger Station, in the Southeast quarter of the Southwest quarter of Section 31, of the same township and range.

Quantities

I have not yet completed final quantities for the system, but there will be the full penstock capacity (about 10 sec. ft.) for power, and approximately 0.5 sec. ft. for domestic use. I will claim all I can justify in any case, for domestic use.

Use and Sites

There are two immediate uses, as follows:

1. The Grand Lake Lodge, in the leased area shown on the map.

 The present Grand Lake Ranger Station, Utility Area, and Checking Station.

There are also two proposed additions, or alterations, as follows:

- 1. An additional Lodge of the Rocky Mountain Lodges, Inc., which will be located on the West shore of Grand Lake at the time that this area is brought into the park. At this time, too, it seems safe to assume that the checking station will be moved down to the present junction of the Grand Lake, Granby, and Estes Park Roads on the West edge of the Rocky Mountain Lodges, Inc., property.
- 2. The Grand Lake Ranger Station and Utility Area will be enlarged, and moved to the area just north of the property of the Mitchell heirs, on the West side of Tonehutu Creek.

We thus have a demand for demestic use for two hotels, a campground near the new Utility Area, and a ranger station and utility area.
Only the present power installation will be filed, assuming that the
second hetel will obtain power from the Colerado-Big Thompson Project.
In fact, in the report which I will get out at the time of filing the
map, I will also provide for possible abandonment of all power when
the Colorado-Big Thompson Project is complete, but that is only to be
used in case of a protest by Harbison.

Right of Way

You will notice that the present pipe line cross the Northwest corner of the Mitchell Estate in Section 32. Please determine from Mr. Canfield when, 1f at all, the park will acquire that land. Also, if it is still caned by Mitchell heirs, decide what should be done about the right of way, and whether the Lodge ever obtained such right of way privileges.

You will also notice that if a new lodge on the West shore of Grand Lake is to be served by the system, a right of way will be required across the Grand Lake Townsite. Please decide, with Mr. Cantield, just what provisions should be made for that right of way.

Protesta

You will notice that the most probable protest is from Harbison, whose ditch is crossed by the Grand Lake Lodge Penstook. This ditch is in a position to suffer by the 10 sec. ft. draft for power, but not by the domestic draft, to judge from my stream measurement last summer.

In addition, you will note the various pipe lines serving the Grand Lake area are shown with diversions near the park boundary, on Tonehutu Creek, and on North Inlet below the mouth of Tonehutu Creek. These should not protest the power draft, since it is returned to the stream above them. They may, however, protest the domestic demand which is lost to them.

From my superficial inspection of records, and my one measurement of 15.8 sec. ft. at the diversion on August 4, it seems probable that the minimum flow of Tonahutu Creek, during the park season, is about 7 second feet during late August and early September, and about 12 second feet at the peak of park travel on August 10.

I have not gone into details enough to state anything with assurance, but in general it seems that Harbison has 4.6 second feet decreed, which would have to come senior to the Park Headquarters. It would leave about 5.0 second feet for power, which was the moon use on August 4. Note that of the total 9.1 second feet of Harbison decree, only 4.6 can be drawn at one time.

There is a total decreed right to about 11.125 second feet on Tonahutu Creek, to serve senior to the park demostic use. This gives a shortage late in August if all rights were active at that time, but I think all have dropped, and I doubt if full appropriation has ever been made. Incidentally, the Mitchell Decree of 1.25 second feet is not shown on the map, as I do not know where it is on his land.

There is one filing - Ish Pipe Line - which would probably be adjudicated with any park claims. It claims 21.5 second feet, and would be cut in quantity, of course.

Cairns Pipe Line No. 2 has a decree for 5.015 second feet, but since it is from North Inlet, it will not figure in the picture.

Then, if we can adjudicate the park claim soon, I think we will get about the last valuable right on Tonahutu Creek. If we wait for more claimants to develop systems, we are likely to suffer in quantity and priority.

I can see that I should give this sytem much more study as some as possible, and before filing, but perhaps this picture will help you and Mr. Canfield decide on a general policy which will help me in my final preparation of the filing and data for an adjudication.

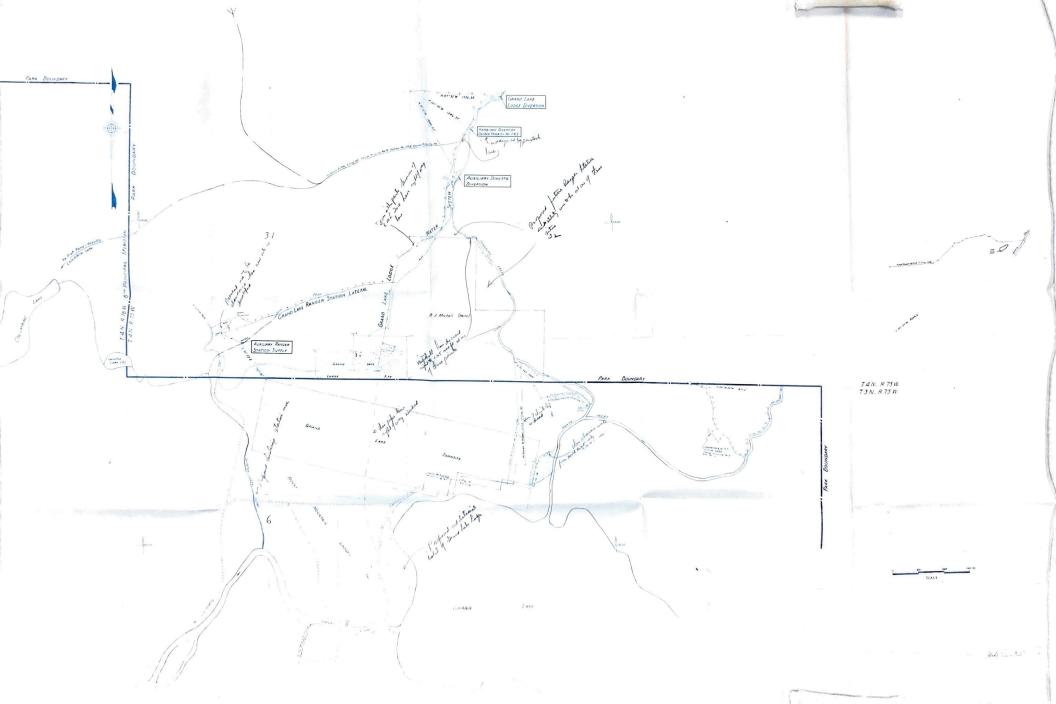
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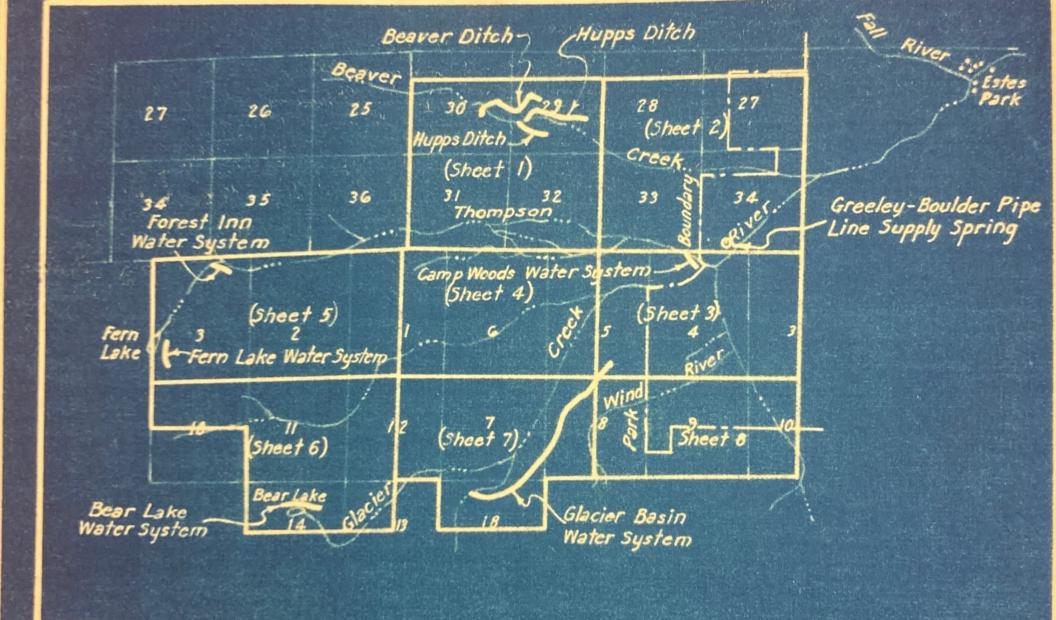
A. von V. Dunn. Associate Engineer.

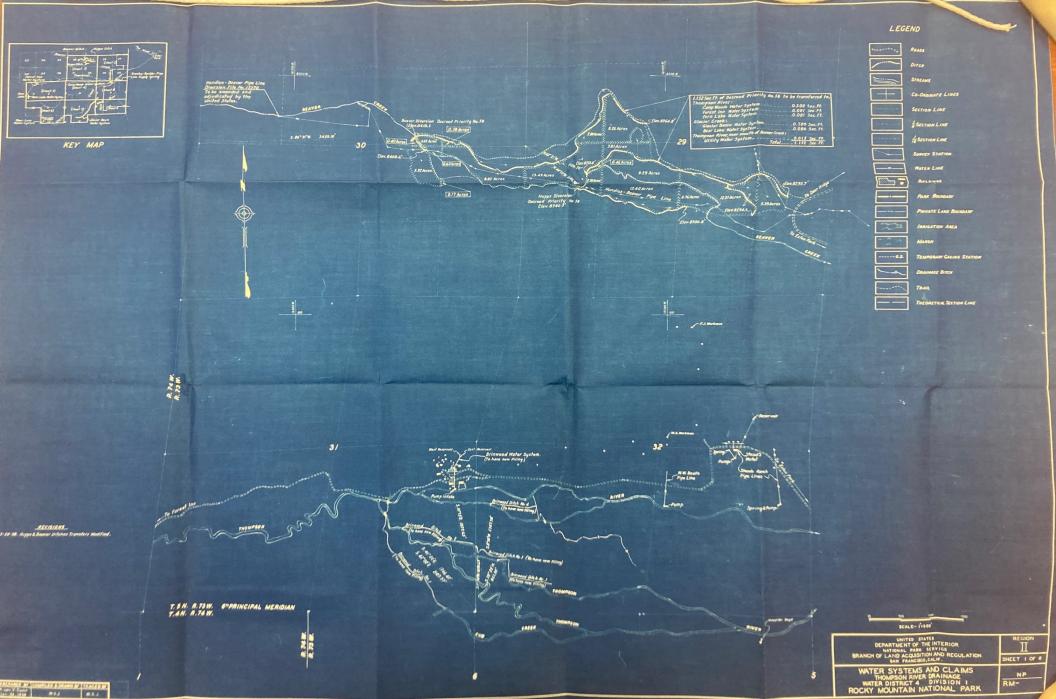
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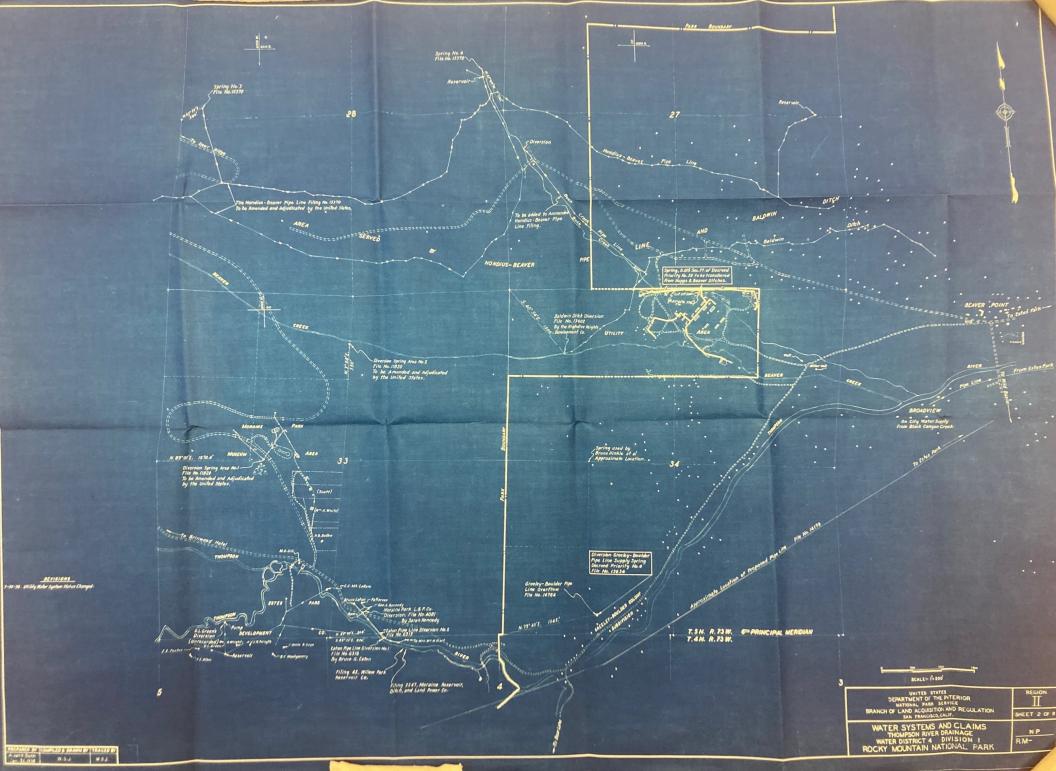
P.S. -- Since writing the foregoing memorandum, I have decided, in the interest of postage economy, to send only one copy of the map by sirmail with this memorandum. The second copy is being forwarded to the Superintendent by regular mail.

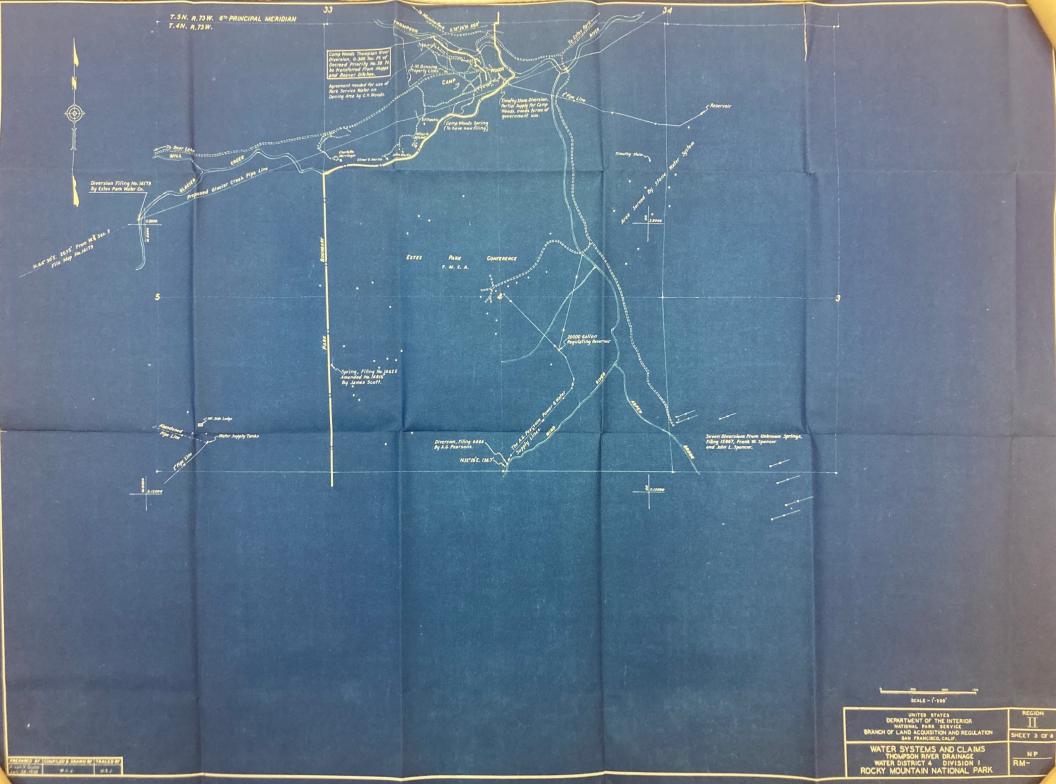
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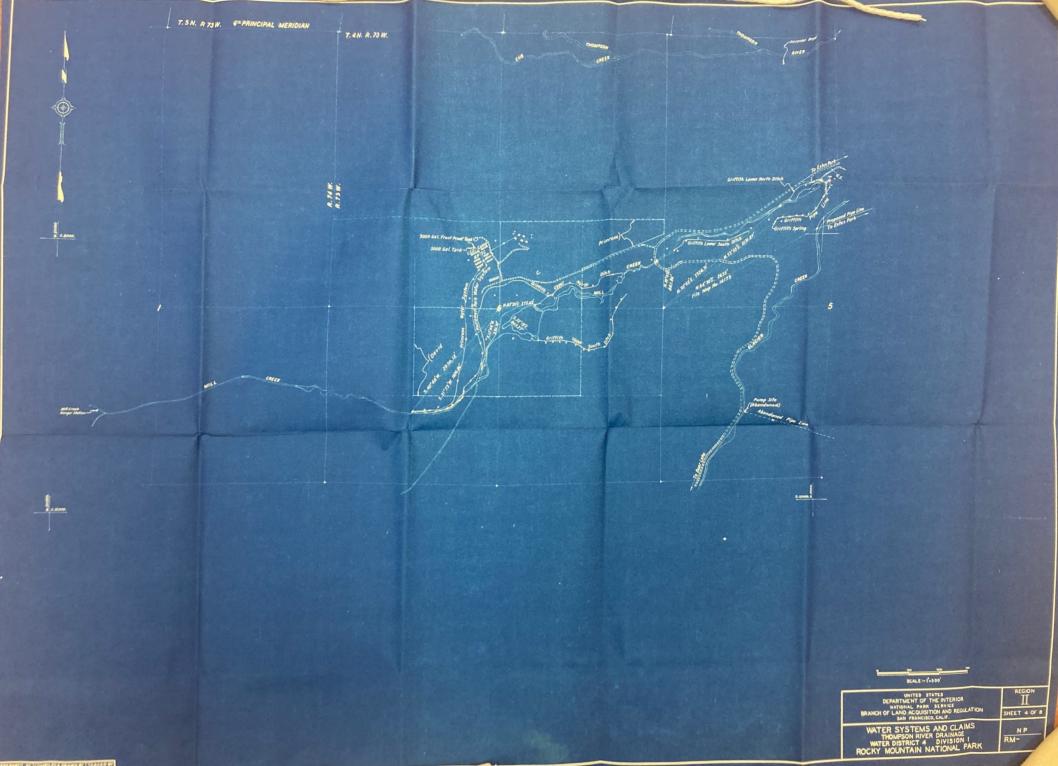


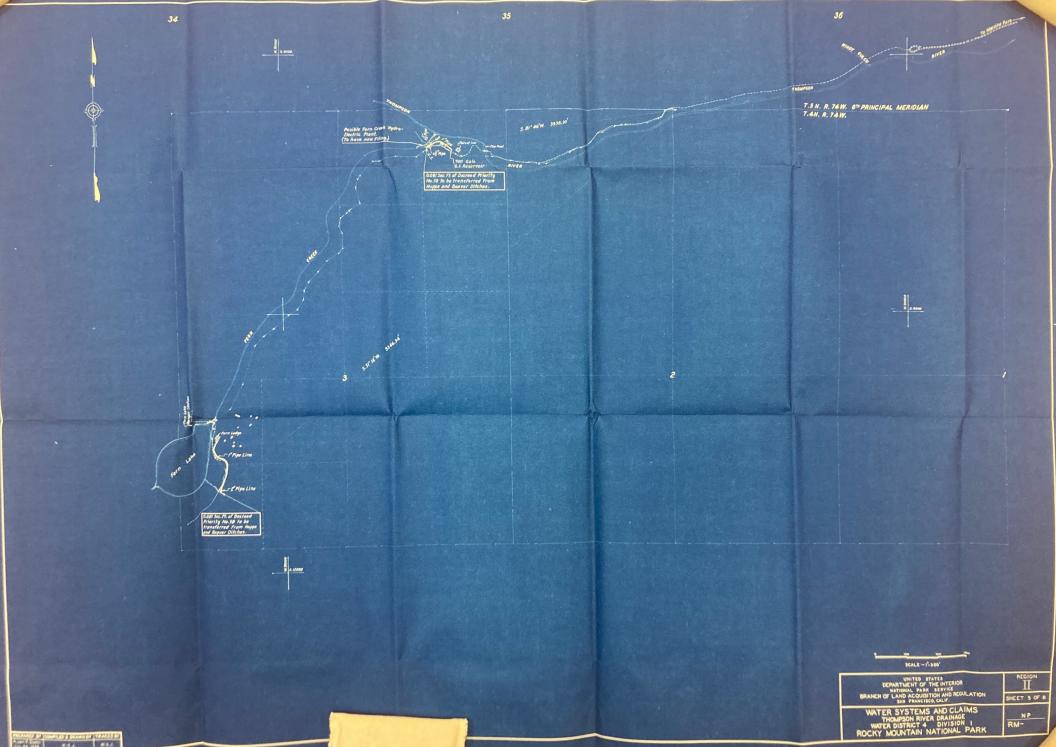


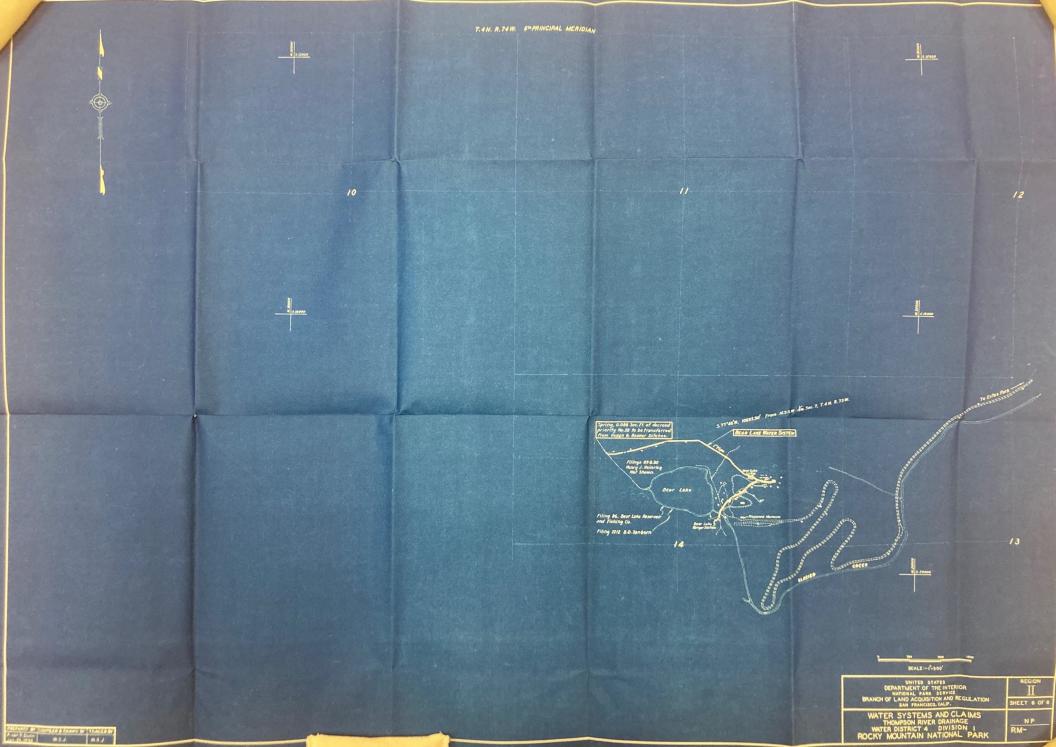


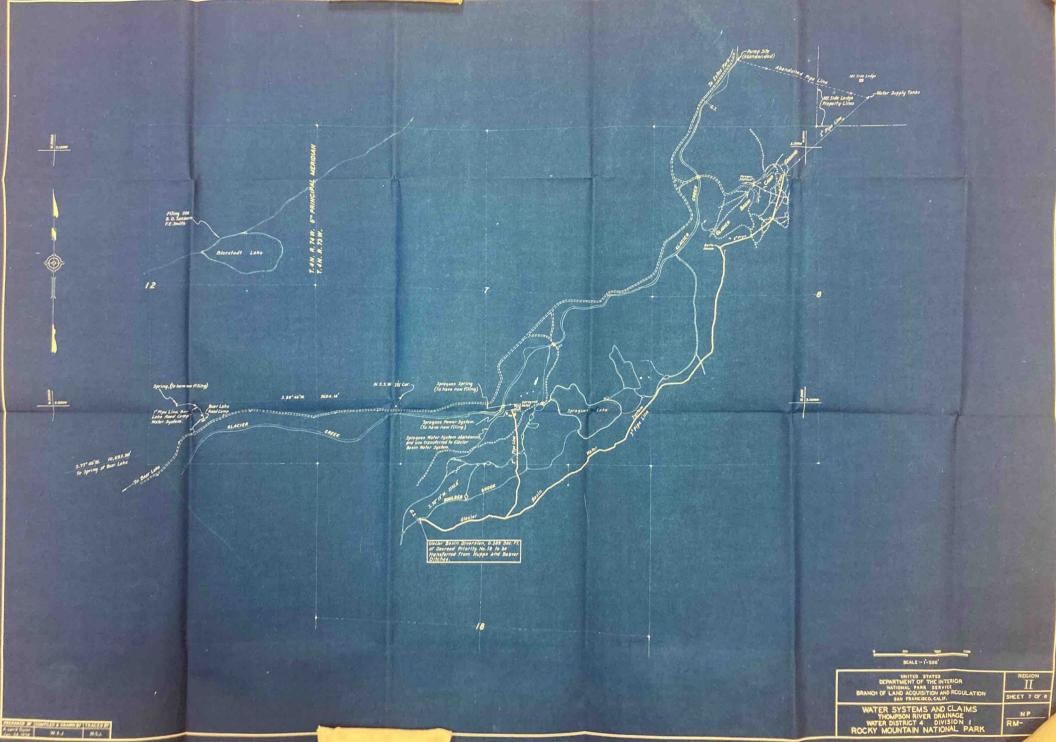


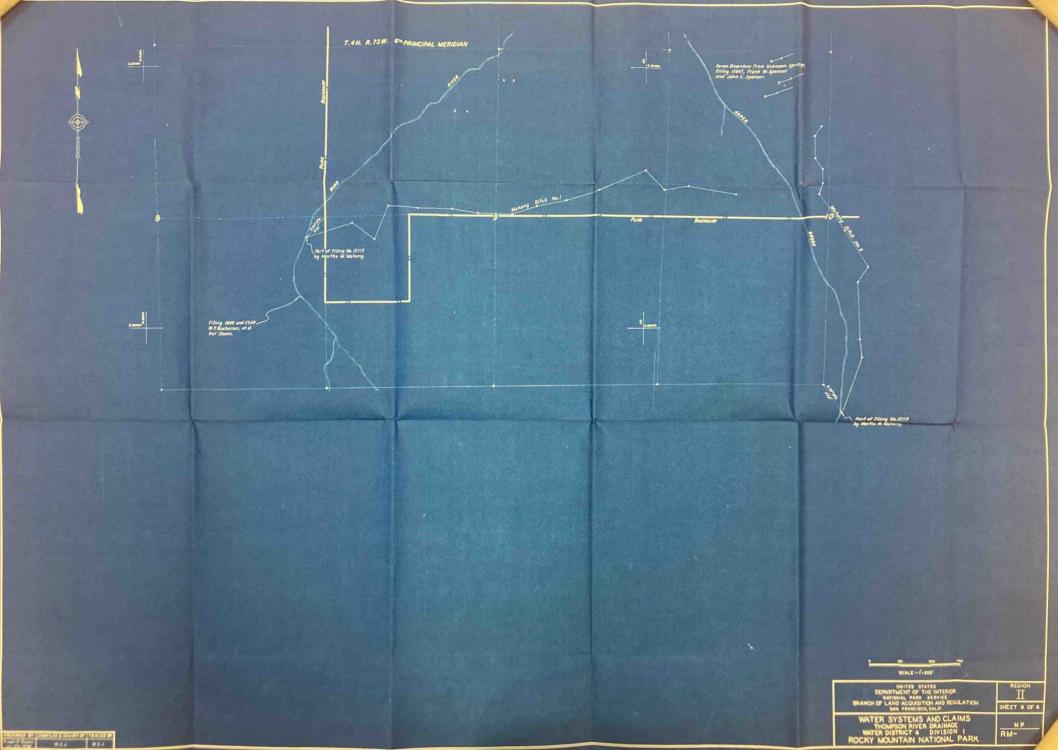












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| 11 3:32° 39'm 216:32 | |
| 12 3.25° 32°W 4.16-26 | |
| 13 5 0.545 353.19 | |
| 14 J25 JFW 213 M | |
| 15 5 32° 57 m 1/2-63 | |
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| 17 5 0° 45'W 167.68 | |
| 18 5.16° 48'W 217-75 | |
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FOURTH: The estimated cost is
FIFTH: Work was commenced by

UNITED STATES OF AMERICA

A van V Unan being duly swern on his outh, deposes and says hat he is the Engineer of the Grand Lake Lodge and Ranger lation Water Systems; that the survey of the same of the map thereof was made under his supervision and instruction of that seek survey is occurately represented upon this map; if he has read the salements thereon, and that the same are true of it was knowledge.

Subscribed and sworn to before me this day of A.D. 19

U.S. COMMISSIONER

By virtue of United States Code

Title S Section 32

Accepted for filing in the affice of the State Engineer of Colorado on the day of

STATE ENGINEER

DEPARTMENT OF THE INTERIOR
WATIONAL PARK SERVICE
BRANCH OF LAND ACQUISITION AND REGULATION
SAN FRANCISCO, CALP. REGION II SHEET 2 OF 2

GRAND LAKE LODGE
AND RANGER STATION WATER SYSTEMS
GRAND COUNTY, COLORADO
WATER DISTRICT 51 DIVISION 5
ROCKY MOUNTAIN NATIONAL PARK

DRAWING NO.

