

FILE
V. L. & W. CO.

REPORT ON POWER PLANT
AND WATER SUPPLY,
FOR WARNERS SPRINGS
FROM EAGLES NEST CREEK.

By William S. Post.

May 13, 1913.

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FOR WARNER'S SPRINGS
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Diversion Point.

There is no doubt that the diversion point should be made at the trail crossing of Eagles Nest Creek, one half mile below the buildings of Eagles Nest Ranch, at an altitude of 4,500 feet. A natural dam site exists here and sufficient storage to hold water during the day for night lighting.

The Creek has a minimum flow of 10 miner's inches and averages in the winter 100 inches. With accumulation the minimum flow will yield 50 miner's inches for five hours, which will carry the peak of lighting load in the summer.

Alternative Location of Power Plants.

Two routes of utilization are possible; first, utilizing the water in the basin of Eagles Nest Creek itself, or second, diverting it into the Canada Caliente, (the creek on which the Springs stand).

The latter would be slightly cheaper and yield somewhat more power, but has no storage basin between the power site and the Springs. The first plan is recommended, because of such reservoir site as exists on the lower creek can be made sufficiently large for storage of winter water, available for summer use at the Springs.

Power Site No. 1, on Eagles Nest Creek is recommended and is estimated as follows:-

POWER SITE NO. 1.

Total Fall -----	710 feet.		
Saleable H. P. -----	65 H. P.		
Maximum H. P. -----	90 H. P.		
Cost Cement Pipe -----	2500 Lin.Ft.	at \$.50	\$1250.
Cost Riveted Pipe -----	3700 " " "	\$1.00	3700.
Cost Steel Pipe -----	1100 " " "	3.00	3300.
Cost Power Station 75 K. W. at	\$50.00 -----		<u>3750.</u>
			<u>\$11000.</u>
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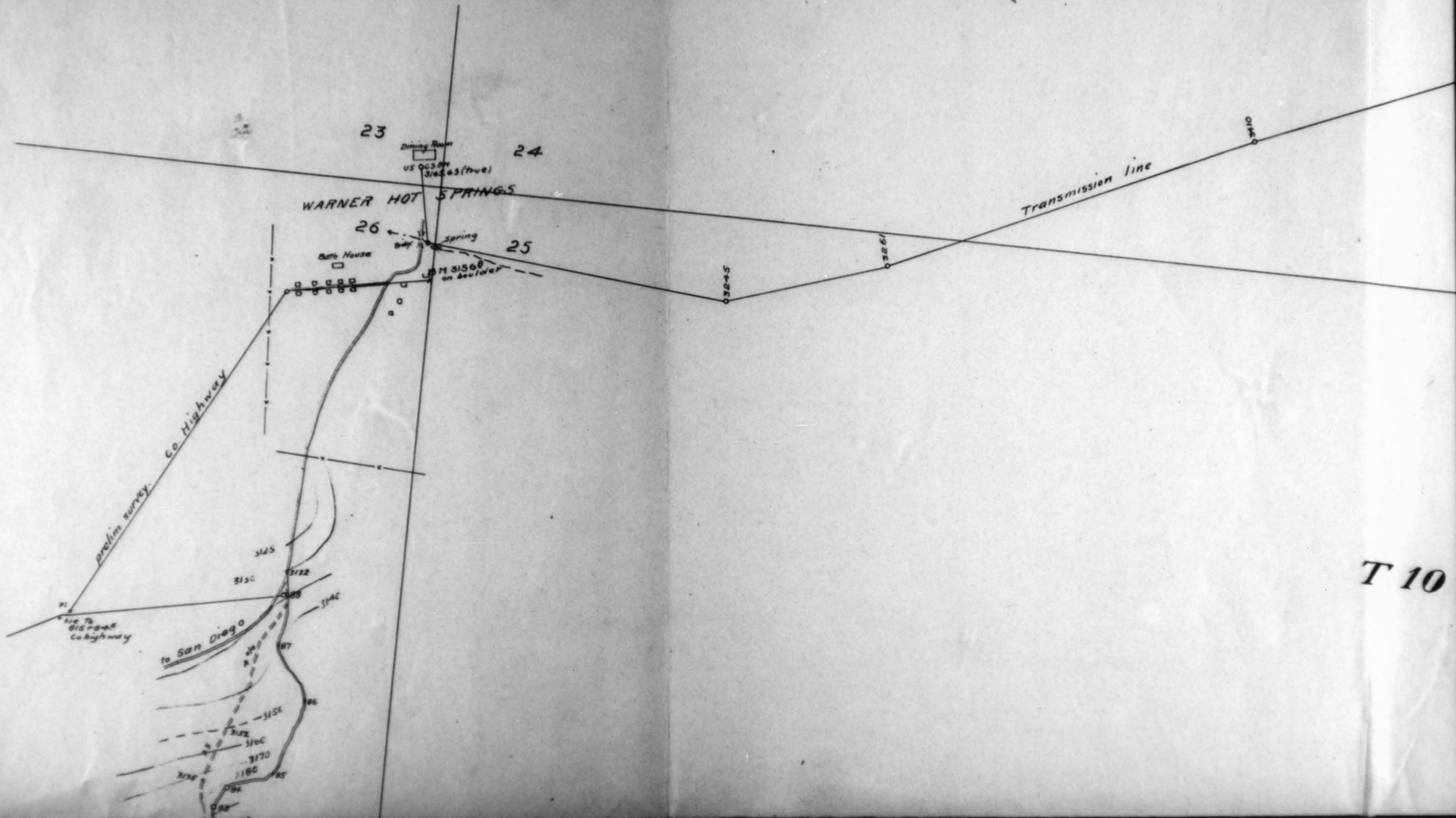
CANADA VERDE RESERVOIR.

The advantage of this power site No. 1, is the availability of its pressure pipe (by a short extension) for hydraulicking a dam 1/4 mile below for storage of water at an elevation of 3700feet or 500 feet above the Springs.

This will provide for future growth around the Springs, as to domestic supply and to a considerable extent for irrigation.

The hydraulic fill should not cost over 5 cents a yard exclusive of the pipe line which is charged to the Power House.

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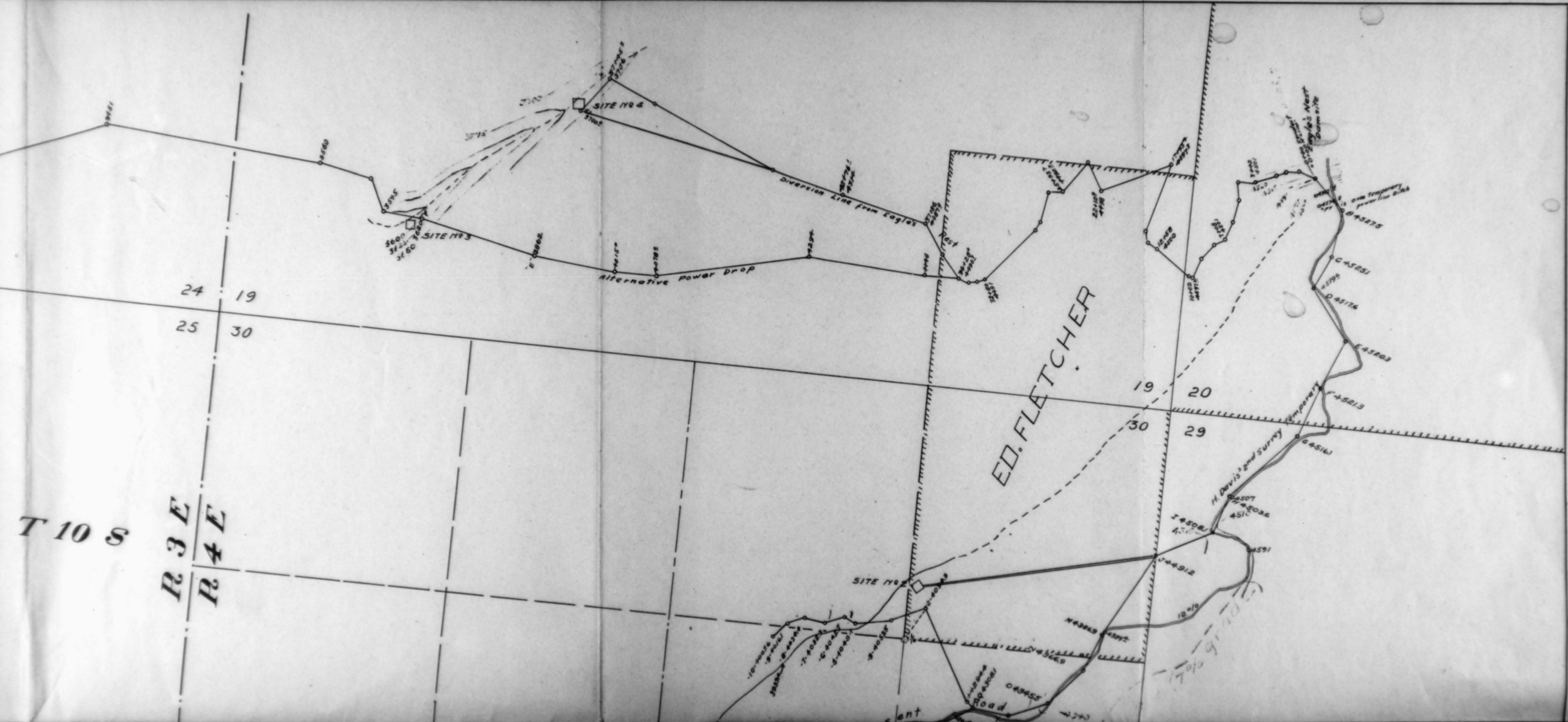
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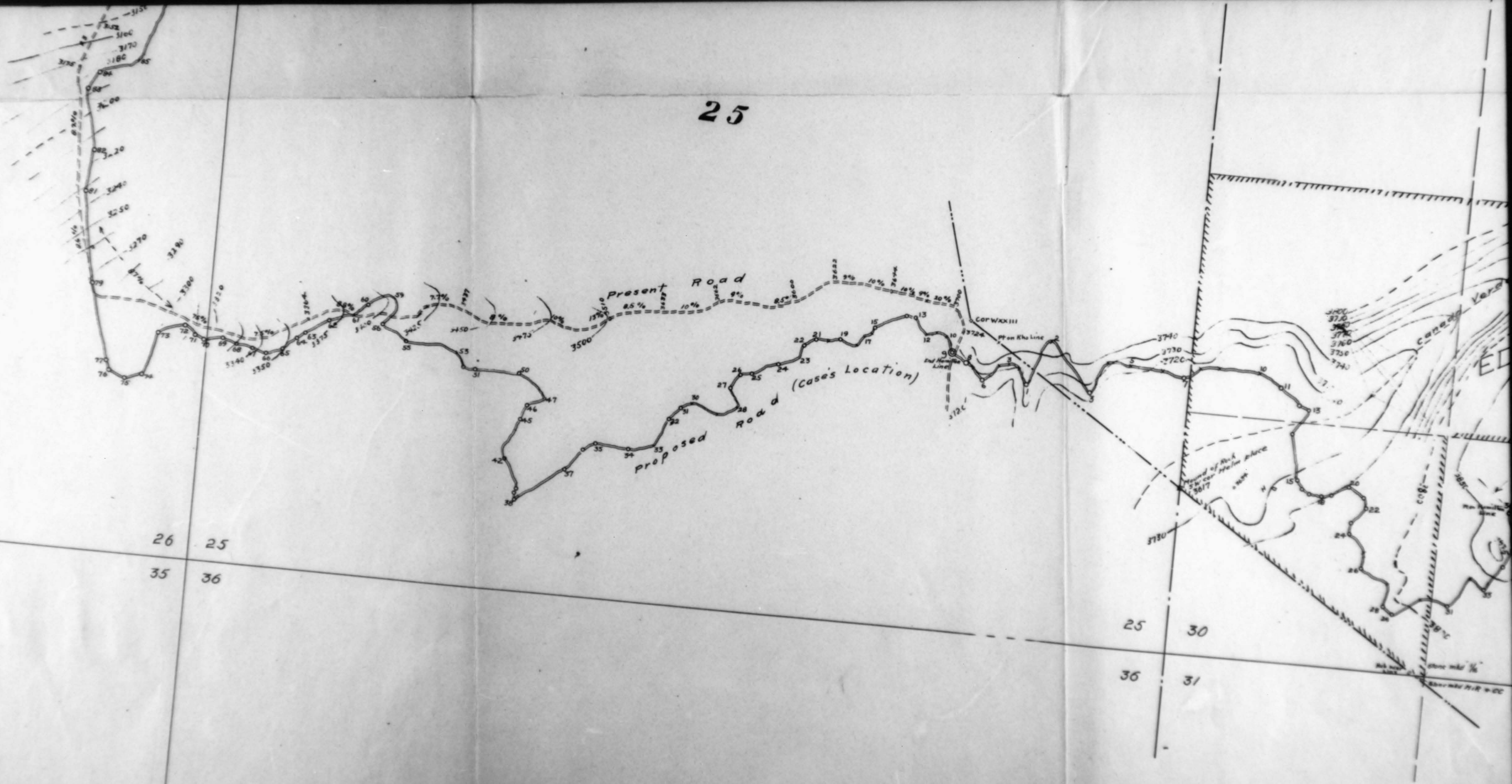
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ED. FLETCHER



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VOLCAN LAND & WATER CO.

WARNER'S RANCH

ROAD, DIVERSION & POWER LINES
 but WARNER'S SPRING & EAGLE'S NEST

Scale 1 in = 400 ft

W.S. Post Engr.
 Dec 1912

B 95

Ed Fletcher Papers

1870-1955

MSS.81

Box: 40 Folder: 17

**Business Records - Reports - Post, W.S -
"Report on Power Plant and Water Supply,
for Warner Springs From Eagles Nest Creek"**



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