

Book # 93-Dr. #8

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

.....Survey

LAKE IMP. BENCHMARKS°

From..... To.....°

Road Acc't. No.....

Date Filed 1-15-35

File 8

LAKE IMPROVEMENT
— BENCH MARK —
JAN. 1935

BENCH MARKS
LAKE IMPROVEMENT

①

BALD EAGLE B.M.
ELEV. 910.70

BIRCH LAKE ELEV. 922.76

JOSEPHINE ELEV. 887.73

ELEV. 889.20

JOHANNA ELEV. 881.60 }
JOHANNA ELEV. ~~881.44~~ }
JOHANNA ELEV. ~~880.69~~ }
JOHANNA ELEV. ~~879.00~~ }
JOHANNA ELEV. 888.78 }
" 881.92 }

ISLAND LAKE ELEV. 958.48

LONG LAKE ELEV. 865.76

" 869.17

" 877.03

TOP SO. END CONCRETE ^{OUTLET} SPILLWAY

SPIKE IN POWER POLE AT PUMPHOUSE

25' N. OF WEIR BOX - 24" OAK ON FENCE

SPIKE IN 20" OAK 50' RT. & RD. 50' N. OF
BRIDGE OVER CREEK BETWEEN LAKES

N. SIDE CREEK AT JUNCTION WITH LAKE
SPIKE IN 18" COTTONWOOD ON NORTH SHORE.

~~2 NAILS IN TREE NEAR SHORE 60' E. V~~

{ SPK. IN 20" STUMP. 50' E. OF POLE # 60
N. OF N. JOHANNA BLVD. NO. END OF LAKE
S.W. COR. ON HEADWALL OF CONC. OUTLET

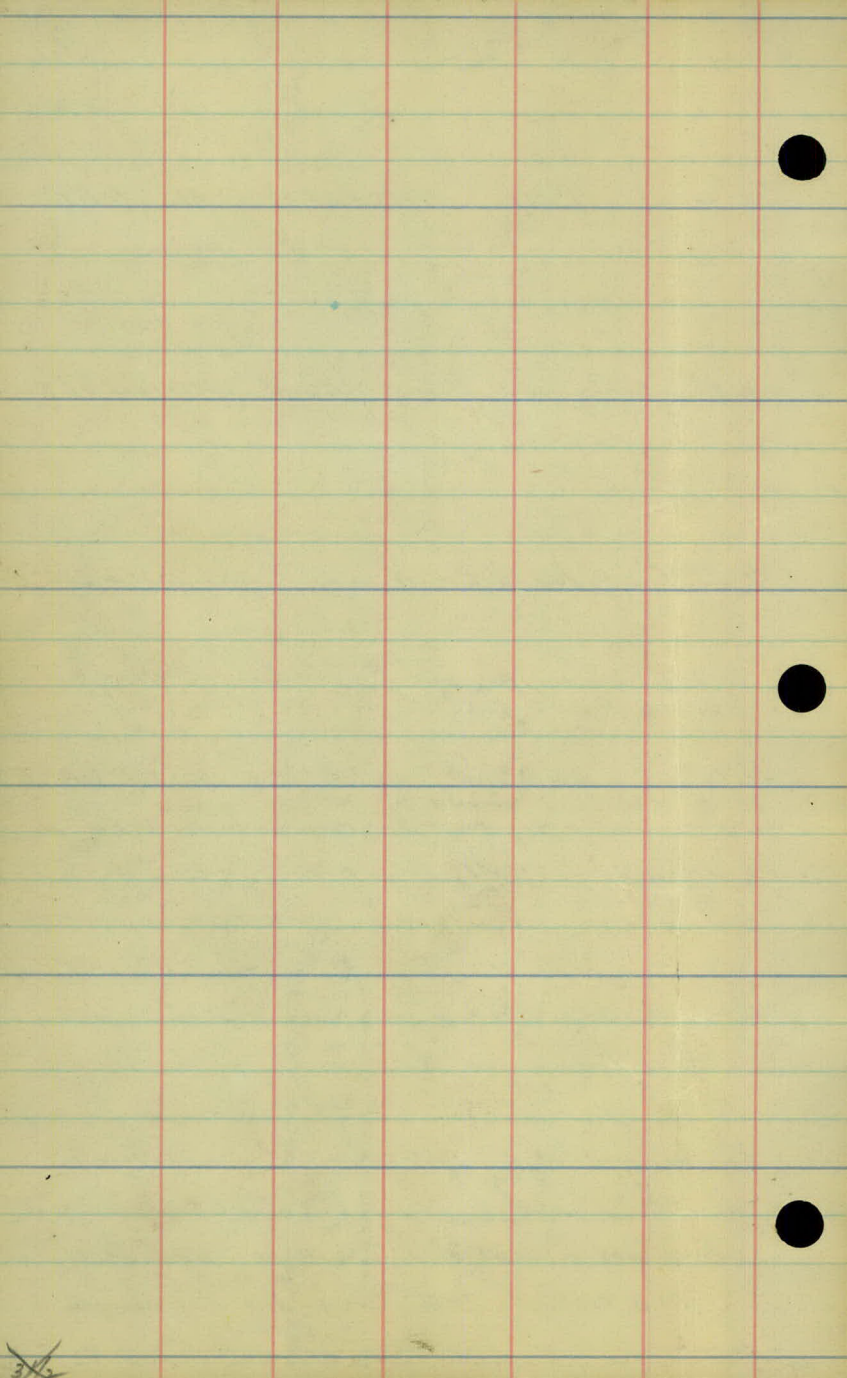
SPIKE IN R.R. TEL. P. 1000' W. OF INT.
OF VICTORIA & CO. RD. "E" AND 50' N.
OF & OF CO. RD. "E"

MARK NEAR BOTTOM OF S.E. WING.

WALL OF LAKE OUTLET. MARKED 866.00

BOTTOM OF N. END OF EAST CONC. STRINGER
& OF BRIDGE.

TOP OF CONC. RAIL, & OF EAST RAILING





B.M.

MC CARRONS ELEV. 845.19

OWASSO ELEV. 891.00

OTTER ELEV. 911.98

PHALEN ELEV. 859.00

" PUMP ELEV. 864.37

" " ELEV. 863.61

" " ELEV. 862.91

ROUND LAKE ELEV. 912.22
(LITTLE CANADA)SILVER LAKE ELEV. 991.34
(N. ST. P.) ELEV. 991.43

SILVER LAKE " " ELEV. 992.48

N.E. COR. TOP OF CONCRETE PLATFORM
AT FRONT ENTRANCE TO BATH HOUSE

PUMP HOUSE FLOOR No 4

N.E. COR. TOP CONCRETE OUTLET

TOP SPILLWAY AT OUTLET OF LAKE

SPIKE IN L. POLE 100' S. OF FALLS ON
EAST SIDE KELLER PARKWAY.

SPIKE IN 10" WILLOW AT OUTLET OF
PUMP CANAL INTO PHALEN CANAL

TOP BRASS PLATE - S.E. COR. OF WEST ABUT.
OF THE KELLER DAM.

PUMP HOUSE FLOOR

PUMP HOUSE FLOOR

TOP S.W. COR. ABUT. OUTLET STRUCT.

B.M.

896.27

ROUND L. (W) ELEV. 896.27

CO. RD. "G"

TOP S. END E. WINGWALL 125' WEST
OF MOUNDS VIEW RD.

B.M.

SILVER LAKE ELEV. 934.00
(WEST)

SNAIL LAKE ELEV. 889.15
" 890.87

TURTLE LAKE ELEV. 896.87

O.K. 5-27-42 ELEV. 891.07

WHITE BEAR ELEV. 927.90
ELEV. 928.74

VALENTINE ELEV. 883.21

ELEV. 882.21

SPIKE IN BRIDGE STRINGER

TOP OF WEIR BOX AT PUMP N.G.

SPIKE IN P.P. AT PUMPHOUSE

SPIKE IN 16" BIRCH AT SO. END LAKE
NEAR SNAIL L. PIPE LINE OUTLET

TOP MONT. NEAR PIPE LINE CO. RD. "I" Shore

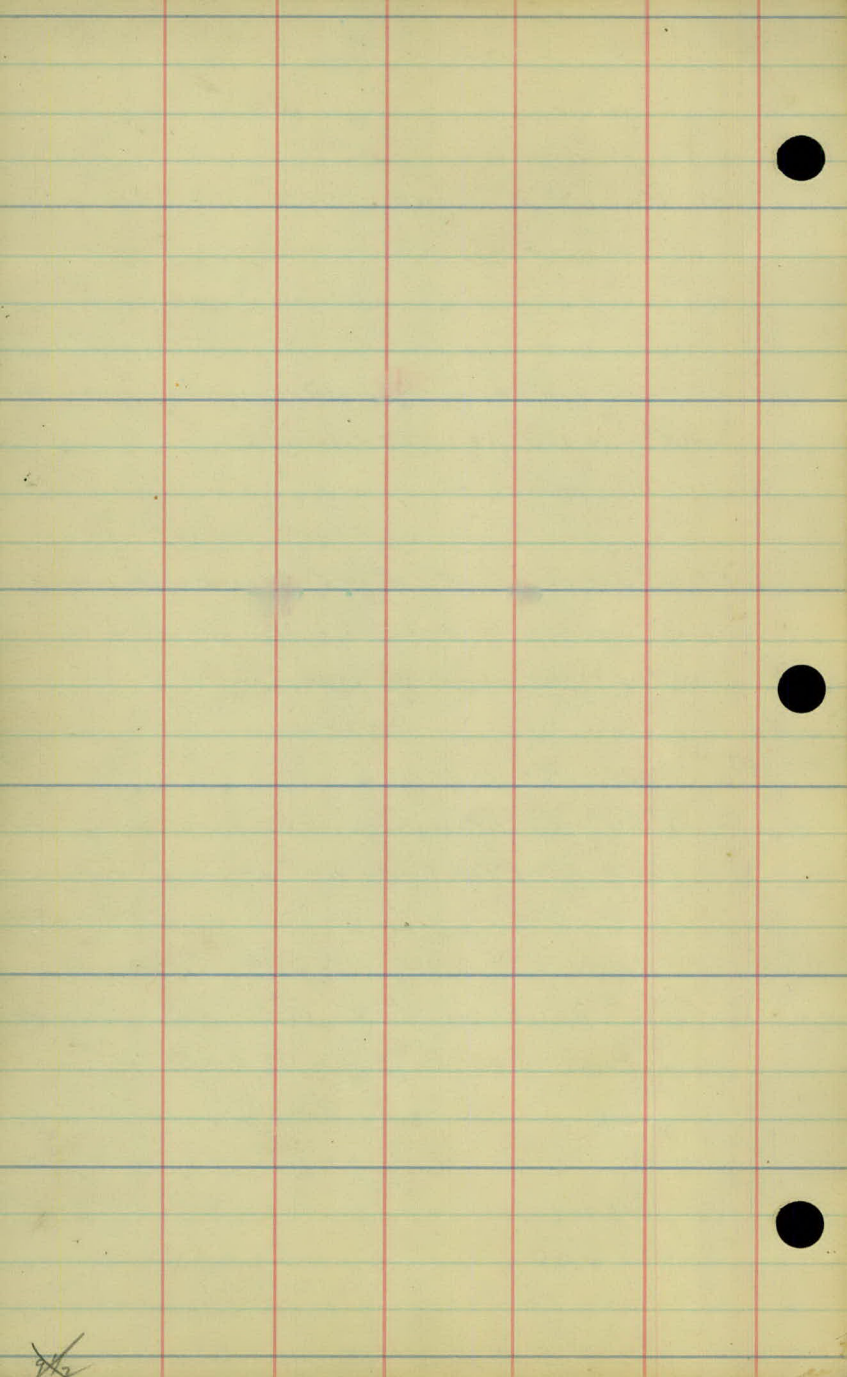
#1 PUMPHOUSE FLOOR

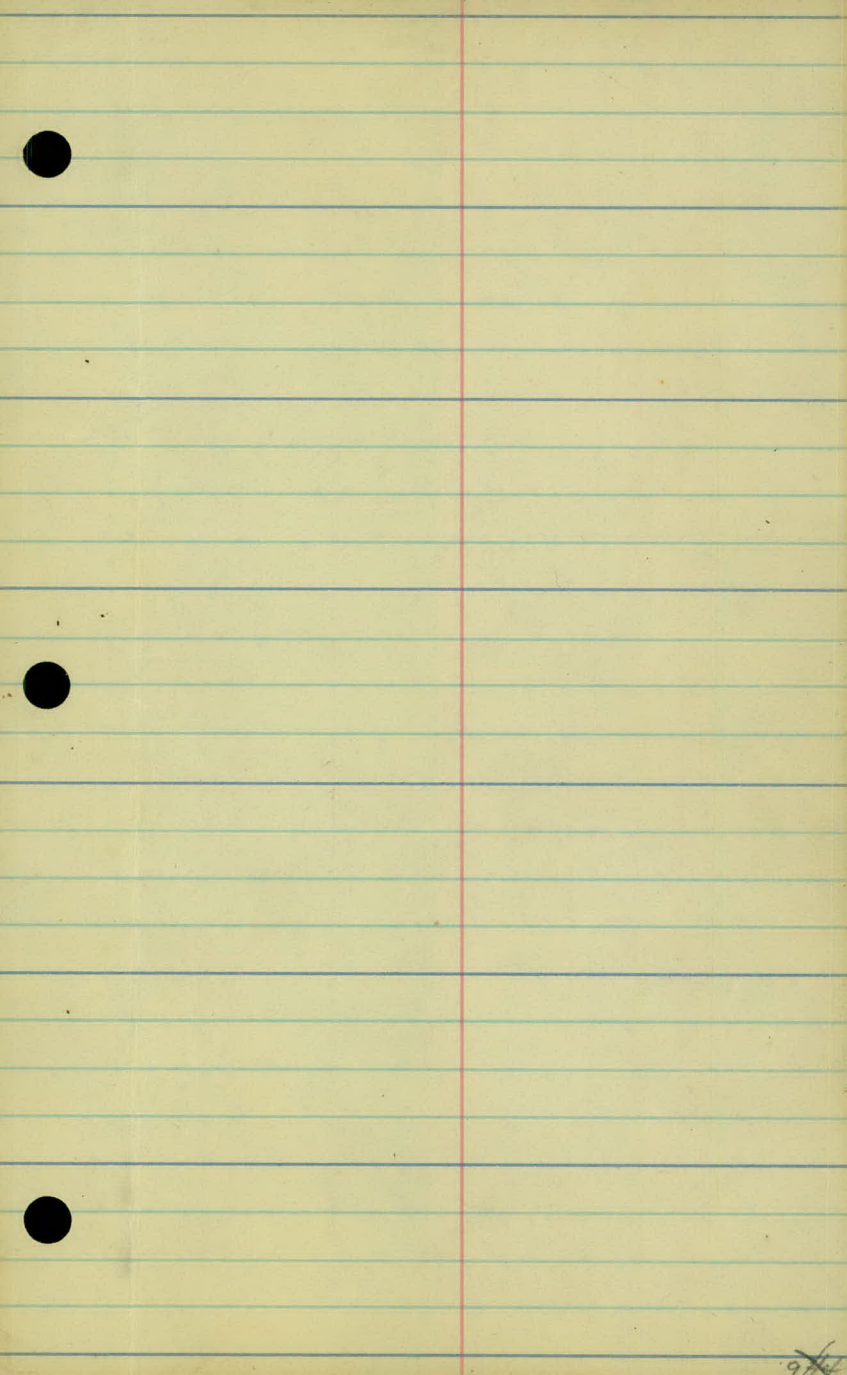
S.E. COR. HEADWALL ^{AT} ~~JUST BELOW~~ OUTLET
PIPE OF PUMPHOUSE #1

SPIKE IN 10" OAK AT S.W. COR.

S.T.H. #62 & CO. RD. "F"

SPIKE IN P.P. #9 EAST OF S.T.H. #10





Units 1-2-3-4 White Bear 927.90

Unit #4 Lake Onassso 897.00

Unit #5 Josephine - Solvang 879.00

Josephine 884.20

Unit #6 Snail Lake 889.15

Unit #7 Keller booster

Unit #8 Birch Lake 50

Pump house floor #1
Normal 924.50

Pump house floor
Normal 887.00

2 NAILS IN TREE
Spk. in tree - North Shore
Normal 877.50

Plank on spillway = Normal

Top of wicker box
Normal 883.50

ELEV. 922.76 SPK. P.P. NORTH
OF PUMP HOUSE.

NORMAL ELEV. 919.50

Unit #10 Keller-Plaster 859.00

Unit #11 Turtle Lake 896.87

Unit #12 Round Lake 912.22

Unit #13 Silver Lake, No. St. Paul 991.34

Silver Lake (west) 934.00

Concrete spillway
Normal - 859.00

Spk. in 16" Birch at pipe line
Normal 892.00

Pump house floor.
Normal 904.50

Pump house floor.
Normal 987.00

R.R. spk. in bridge stringer
Normal 930.00



Bench Levels

From Hiway #8 + S.t.H. #96 To
S.t.H. #96 - Mound View Rd.

Sta	+	π	-	Elev
B. M.	3.61	917.15		913.54 ✓
T. P.	2.47	908.03	11.59	905.56
T. P.	2.80	908.04	2.79	905.24
T. P.	1.95	900.91	9.08	898.96
T. P.	6.77	902.52	5.16	895.75
B. M.	6.25	902.52	6.25	896.27 ✓
			11.56	894.77 ✓ 890.96
	17.00		46.43	

π
check Levels

B. M.	6.25	902.52		896.27 ✓
T. P.	8.18	903.46	7.24	895.28
T. P.	7.58	910.26	0.78	902.68
T. P.	13.63	916.07	7.82	902.49
B. M.			2.58	913.49 ✓
	35.64		18.42	

Top Gov. Mon. N.E. Cor. Hiway #8 + S.T.H. #96

Top S. End E. Wing Wall 125' W. Mounds View Rd.
Elev. Water - Round Lake West.

