

JUNE 21, 1965

REPORT

CD. NO. 22

Summary

The presently operating section of original ditch 22 was only deep enough to take off the surface water. Roads and streets of comparatively recent construction intersect this ditch with road ditches deeper than the drainage ditch but still designed to remove only surface water. Road ditches are evidently serving their purpose with the usual Anoka County dependence on vertical drainage for assistance,

A copy of the County Auditor's notes from Board Meeting Minutes is attached.

A copy of a 1962 letter mentioning C.D.# 10 is attached.

Exhibits

- 4 pages photographs 6 to a page total 24
- 1 page Index and notes on photographs
- 1 page clippings from County Map and County Ditch Map
- 1 sheet original plan and cross section C.S.A.H. 14
- 1 sheet 1953 Aerial of Section 6
- 1 sheet 1960 Aerial of Section 6
- 1 sheet 3' x 9' composite map of Ditch No. 22
 scale: 200 feet to 1 inch

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Aerial of Section 6

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1 sheet 3'x9' composite map of Ditch #22
scale 200' to inch

6-21-65

Ross Sanderson

June 21, 1965

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Report on Field & Office Study of Anoka County Ditch #22,

From material on file in the office of the Anoka County Surveyor:

County Ditch #22, dated 1893, estimated cost \$ 467.96, amount assessed benefited property \$ 446.76.

Feeding into County Ditch #10, dated 1890, estimated cost \$ 1325.72, amount assessed benefited property \$ 1314.85.

Therefore, the total amount assessed benefited property for this particular ditch system from $\frac{1}{2}$ mile into Columbus Twp. to ~~Marshall~~ ^{Marshall} Lake was \$ 1761.61, all of course in 1890 dollars.

In the field, on ~~June~~ ^{June} 16, Ross Sanderson, Calvin Behr, and Jared Richardson walked and photographed C.D. 22 and the affected portion of C.D. #10, leading into Marshall Lake. Also, in the field, on June 19, Ross Sanderson rechecked

some points in preparation for report writing. We found:

- A. The ~~approximately~~ ^{approximately} $\frac{1}{2}$ mile of the original ditch in Sect. 32 Columbus Twp., photos (3) & (1), is free of obstruction, has few willows and no serious tree problem. The pipe crossing the town line road is 18" R.C. with 1.7' cover and ~~proper~~ ^{now ditch} flow line. Either a twin pipe or a 24" pipe could be installed here if water back up gives trouble in this half section. However, the comment of one resident was "We like it this way."
- B. The approximately $\frac{5}{8}$ mile of the original ditch in Section 5 Lino, photos (2) & (4), is flowing well but some minor tree removal may be advisable to avoid a future obstruction.

- C. The approximately $\frac{1}{4}$ mile of the original ditch still in use in Section 6 Lino is working, appears adequate for the existing depth upstream, has a comparatively large number of small willows starting. The pipe crossing 4th Ave is R.C.P. 24" with 1.2' cover, ^{skewed to flow line of the ditch} If water back up upstream from 4th Ave is a problem, a twin pipe would be ~~required~~ ^{offered}. This portion of the original ditch now feeds into a private ditch. Photo (5)

D. The balance of the original ditch in Section 6 has disappeared and has been replaced by an elaborate private ditch system at a lower level than the original ditch. ^{Photos (6) (7) (8)} This system feeds into a private ditch system in Section 7, and on into Marston Lake. If an overflow is deemed desirable, an overflow ditch could be dug south from the rubbish pile in photo (6) to feed into the C.S.A.H. 14 cross pipe which is 30" R.C.P. with 2.7' cover and some correction $\frac{1}{4}$ mile south of C.S.A.H. 14. The normal flow of the upstream water would still be into the private ditch system.

Work is now in progress on widening and deepening the private ditch system according to the start shown in Photo 18, dated June 16. On inspection June 19, the ^{private} ditch ^{work} had progressed approximately 1000 ft. to the north.

E. In Section 7 the water load is substantially taken over by private ditches feeding into the 72" C.M.P. at intersection T.H. 53 & T.H. 326.

Conclusions:

R We found a working ditch system which even in mid-June is moving a good amount of water.

We realize that the past spring was a season of abnormally high water.

That portion of the original ditch still in service was constructed seventy five years ago by hand tools and horse drawn ploughs and slushers. Ditching by these methods meandered here and there to save excavation and drain potholes with a minimum of ditch depth. Apparently, the ditch served its purpose for fifty years or more.

If we assume the benefited area for the original county ditches # 22 & # 10 as 8 sections and the total cost of the two ditches as \$1800.00, the original cost to each quarter section amounts to \$57.00, all of course, in year 1890 dollars. Again the original cost was \$14.00 for each 40 acre plot. ~~There is no money available to do any ditch cleanout.~~

The private ditch system existing, and more so as it is now being improved, benefits the ditch upstream from the existing junction in Section 6. The water moves north then west, then south, but it is moving on private property.

From an engineering point of view, if the original portion of the ditch now in use is to be maintained as is, and if backup in an abnormal season is a problem to be minimized, the corrections in A, C, & D could be constructed and assessed against benefited properties. If cleaning and deepening of this portion is desired, the same provisions should apply. There is no money available to do any ditch cleanout.

- ① At Town Line Road Looking North
- ② At Town Line Road Looking South
- ③ At Unweeded Half Section Road Looking North 12" pipe dry
- ④ At Town Road Between Secs. 5 & 6 Looking East
- ⑤ ditto Looking West
- ⑥ Existing Ditch East Edge Sod Field Looking North
- ⑦ ditto ditto
- ⑧ ditto ditto
- ⑨ Looking South
- ⑩ C.S.A.H. 14 Ditch Looking West
- ⑪ ditto ditto
- ⑫ ditto Looking East
- ⑬ From Single Box under T.H. 8 towards Marsden Lane
- ⑭ ditto upstream
- ⑮ At intersection C.R. 53 & T.H. 326 Looking South
- ⑯ ditto Looking North west
- ⑰ In S.E. 1/4 Sec. 7 Looking North
- ⑱ C.S.A.H. 14 at quarter corner Secs 6 & 7 Looking North
- ⑲ ditto South Water Flowing
- ⑳ ditto East South
- ㉑ ditto West
- ㉒ C.S.A.H. 14 north side ditch 1/4 mile east of Sunset water running
- ㉓ Field Ditch running north ditto
- ㉔ Field Ditch North of intersection of C.S.A.H. 14 and Sunset (C.R. 53)

18" R.C.P. full & running
Cover 1.7'

Cover 1.2'
24" C.M.P. clear & run

72" C.M.P. Clear Flowing