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Field notes. Of the survey of Section No. 2, Township No. 133 No. Range 31 W. 5th principal meridian, as surveyed by John W. Caro, County Surveyor of Cass County, Minnesota.

Nov 8th 1907. Ed Newkirk, axman and chairman. George Green, axman and chairman. I use the following instruments; a Keuffel & Esser Engineers; transit, in perfect adjustment, and a 100 foot Chicago steel tape. We start out to hunt old Gov't bearing trees along the North side, and not being able to find any we follow the approximate North boundary of the Township, in a Westerly direction; We find a graded wagon road running East & West, and a few stakes but there are no Gov't bearing trees; Mr Newkirk & Mr Green say the surveyor who surveyed the wagon road, found no Government stakes or bearing trees and as this appears to have been the case, we drive to the Northwest corner of the township; At this point we find an Iron Monument, almost the shape of an ordinary carpet tack; it is 2 feet long with a head about 8 inches square; it sets in a meadow, loose in the ground, and has the appearance of having been moved a great many times, as there are lots of holes in the ground for a radius of a rod. believing this to be the approximate corner of the Twp we go 4 1/2 miles East, along the North boundary of the Township, to a point in a wet tam'swamp near the Northwest corner of Sec 2. I put up a stake to mark the place and quit for night.

November 9th 1907. Same crew & same instruments; At the Northwest cor of sec'2, Twp 133N, Range 31 W, the field notes of the original Gov't survey call for a post and the following bearing trees; Tam' 10, S 40 W, 6 links distant. Tam' 8, S 40 E, 3 links dist. Tam' 8, N 75 E, 5 lks distant, Tam' 7, N 25 W 15 links distant. We find the following bearing trees; Tam' 8, S 40 E, 3 lks. Tam' 7, N 25 W, 15 links. but the distance between them by way of the courses is 13.13 feet or 1.25 ft longer than government measure We set a stake for the true corner by perportionate measurement, after which the old Gov't bearing trees stand as follows; Tam' 8 S 40 e, 1.98 ft Gov't chain, equals 2.19 ft my chain. Tam' 7, N 25 W, 9.90 ft Gov't chain equals 10.94 ft my chain. Begining at the true Cor' just set we run S 1°3' E; magnetic Var' 9°48' E; going through a wet tam' swamp with water to our knees and breaking thin ice; At 500. ft lv swamp, enter solid ground; at 810. ft set stake for future reference.

May 22nd 1910. Ed Newkirk and Geo Brown chainmen, Josiah Hicks axman. Keuffel & Esser transit 200. foot Chicago steel tape. Going to the N.W. Cor Sec 2. Township 133 Range 31 we pull up the wood stake previously set by me at the true corner and put in its place a stone Monument, 8x8x36 inches in size, set its full length in the ground. Under the stone we have driven 5 sticks of 8. foot piling, until it appears to rest on solid ground, then pour in cement and sand until the stone and piling are blended in one; big solid concrete Monument. cemented to the big green roots of a 12. inch tam' stump. All courses turned from the true Meridian. the names of residency witnesses are Geo Brown., Geo Green., Ed Newkirk., and James E. Rearick.

RecoRded *Mar 1 1911*

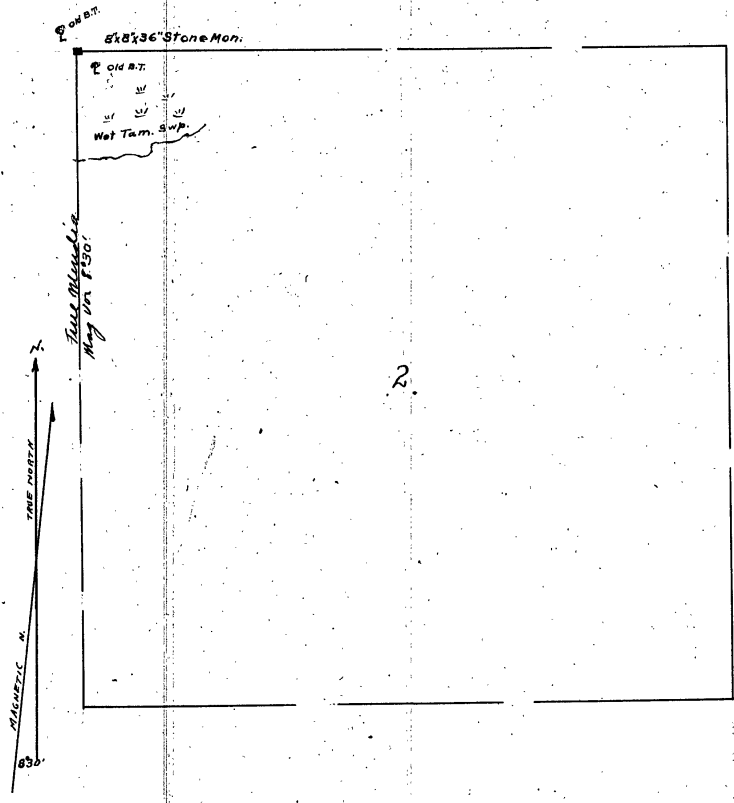
John W Caro
County Surveyor CaSs Co Minn

Plat of

Section 8, T. 133 N., R. 31 W., 5th P.M. Minn.

Scale - 1" = 800'

SURVEY RECORD No. 1.



Recorded 9th Mar 1st 1911

Survey begun Nov 8 1907
 ended May 22nd 1910

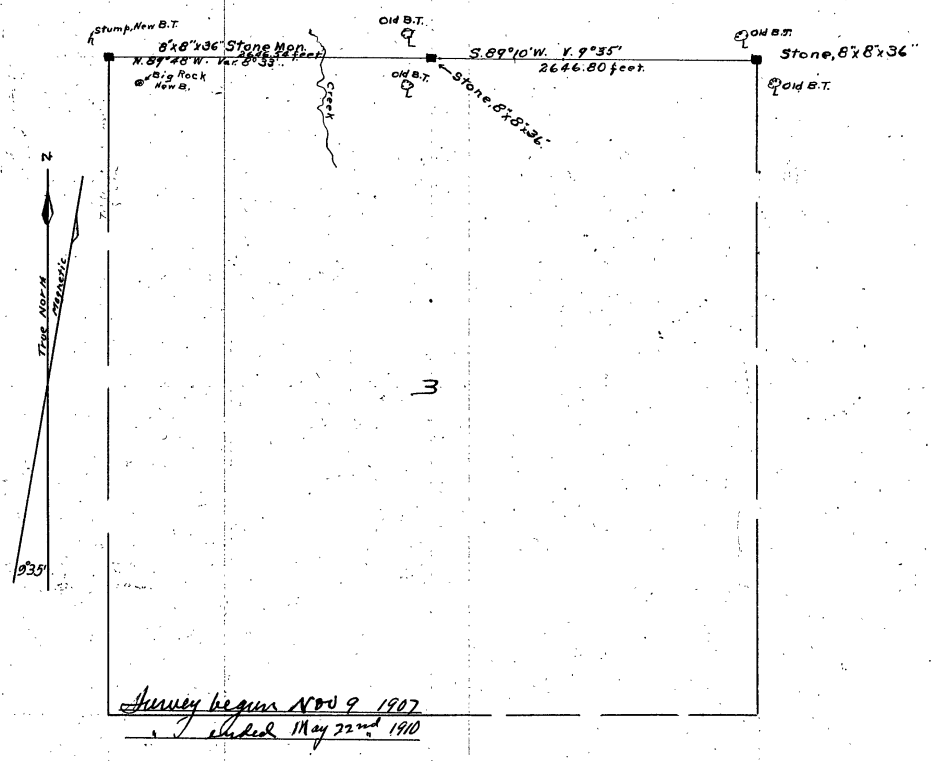
John W. Cress
 County Surveyor Cor. Co. Minn.

PLAT OF

Section 3, T. 133 N., R. 31 W., 5th P.M., Minn.

Scale 1" = 500'

SURVEY RECORD No. 2.



Recorded Mar 1st 1911

John W. Cline
Co. Surveyor Co. Minn

SURVEY RECORD No. 2

Field notes. Of the survey of Section 3, Township 133 N Range 31, W, 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass Co Minnesota; November 9th 1907 Ed Newkirk, axman & chairman, George Green, axman and chairman. I use the following instruments; A Keuffel & Essen Engineers' transit, in perfect adjustment, and a Chiggio steel tape, 100. ft in length. Beginning at the true Northeast

Corner Sec 3-133-31 (see plat & notes of Sec 2-133-31) we run N 88° 55' W, Mag' Var' is 7° 40' going through wet Tamarack swamp and breaking thin ice: at 1300. set stake in swamp: at 1500. ft, Lv swamp, At 1680 ft set hub and tack: at 1775. ft enter meadow at 2310 ft. lv meadow: at 2427.40 ft, set hub: at 2640, set hub for temporary 1/4 post: true 1/4 cor' on N. side of sec' 3:133:31 bears S 4° 29' W, 86.60 ft, making the length of the N. side of the Northeast quarter 2646.80 ft.

2640 ft Gov't chain, equals 2646.80 ft my chain.

At the 1/4 cor' on N. side of section 3-133-31 Gov't notes call for: Pine 8, N 29° W, 25 lks, Pine 8, S 5° W, 24 lks: We find both bearing trees plainly marked from which we set the true 1/4 cor' by flat measurement from the face of the trees after which they stand perfect for course and measurement.

I set post for true 1/4 corner and establish new bearing trees as follows, Norway Pine 4, s 31° 30' E, 32 ft: Jack Pine 4, N 44° e, 26.50 ft, Jack Pine N 63° E, 16.30 ft.

November 10th, 1907.

Beginning at the true 1/4 cor' on North side of Sec 3-133-31, I run n. 89° 45' Mag' Var 8° 30': At 350 ft enter Marsh: At 450 ft lv same: at 575 ft enter meadow: at 663, cross creek, bears S E at 1775 lv meadow: at 2640 ft set hub for temporary NW corner sec. 3-133-31. All Gov't bearing trees are gone and on November 10th, 1907 we continue straight line west: at 5280 ft set hub for temporary 1/4 cor, find no Gov't bearing trees and continue out line: at 7920 ft set hub, Old Gov't bearing trees are gone,

November 11th 1907.

Newkirk and Green still chaining, Ren Harris axman, continue our line: at 10560, set hub at 13200. set tack in plank culvert for temporary section corner. All Gov't bearing trees are gone.

November 12th, 1907.

Continue our line: at 15840 set temporary 1/4 cor. No bearing trees can be found, at 20974.80 set temporary twp corner. The true North west corner of Township 133-31 bears S 67° 50' W, ft. or 21 ft S. end 52 ft west. As 20974.80 ft Gov't chain equals 21026.80 my chain the length of the N boundary of the NW quarter of Section 3 is 2646.54 ft my chain.

Nov 13th 1907, we rechain the whole distance and find it correct.

Nov 14th, 1907, make transit east to hub Np 2640, we measure S 67° 50' W. 7.05 ft where we place the true NW Cor sec 3-133-31 with bearings as follows: Poplar stump 6 51° 30' W. 42.50 ft. Highest peak of big 3 ft. rock bears S 21° 45' E. 17.30 ft.

May 22nd 1910 Ed. Newkirk and George Brown chairmen at the true NE corner, and 1/4 corner on the N. side of sec 3-133-31 we place an 8x8x36 inch stone monument; at the true North-west corner of sec 3-133-31, all three monuments set in a bed of cement and sand.

The names of resident witnesses are as follows.

Ed Newkirk, Geo Green, Geo Brown, Jas E. Rearick.

RECORDED 1911

John W. Curo
County Surveyor, Cass County, Minnesota.

Field Notes: Of the survey of Section No. 34, Township No. 134 N, Range No. 31, 5th Principal Meridian as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

November 9th, 1907, Ed. Newkirk and George Green axmen and chairmen. We use the following instruments: A. Keuffel and Esser transit in perfect adjustment and a 100 foot Chicago steel tape.

We set the SE corner of Sec. 34, by proportionate measurement from the SE & NW old Govt. bearing trees (see plat and notes of Sec. 2, 133-31) then run N 88° 55' W Magnetic Var. is 7° 40' at 2640 ft set hub for temporary 1/4 cor. on S side of Sec. 34: the true corner bears S 4° 29' W, 86.60 ft. making the length of the S. side of the SE 1/4 of Sec. 34, 2646.80 feet my chain equals 2640. ft of Govt. chain,

We set the true 1/4 corner from old Govt. bearing trees (see plat and notes of Sec. 3 133-31) set stake and establish the following new bearing trees: N. Pine 4, S 31° 31' E. 32 ft. Jack Pine 4, S 44° E, 26.50 ft. Jack Pine 4, N 63° E, 16.30 ft.

Nov. 10th, 1907, same crew and instruments: Beginning at the true 1/3 corner on the South side of Sec. 34, we run N 89° 45' W Mag Var 8 / 30'. At 2640 set hub Temporary SW. cor. Sec. 34, at 5280 and 7920 ft. set hubs all govt. bearing trees along the line are gone.

Nov. 11th, 1907, continue our line: at 10560. hub: 13200. tax in culvert:

Nov. 12th, 1907, continue our line at 15840. hub: at 20974.80 set hub for temporary Twp. corner: The true SW corner of Twp. 134-31 bears S 67° 50' W 56 feet, or 21 ft S & 52 ft. West.

As 20974.80 ft. Govt. chain equals 21026.80 ft my chain, the length of the S boundary of the SW quarter of Sec. 34, is 2646.54 ft my chain.

Nov. 1st, 1907, We re-chain the whole distance and find it correct.

Nov. 14th, 1907. Setting transit on hub 2640. we run S 67° 50' W 7.05 ft. where we drive a stake for the true SW Cor. of Sec. 34, T 134 R. 31, with new bearings as follows:

Poplar stump 6, N 51° 30' W. 42.50 ft. highest peak of big 3 foot rock bears S, 31° 45' E, 17.30 ft.

Nov. 15th, 1907, Ed. Newkirk, Jas. E. Rearick, chairmen. Geo. Green axman: At the NE corner Sec. 34, T 134 R. 31, Govt. notes call for a post and the following bearing trees. Aspen 4 N 10° W 12 links: Aspen 10 N 48° E. 25 links: Aspen 8 S 80° W 60 links. Aspen 16, S 65° E, 40 links.

All are gone except the Northeast Aspen, from which we establish the true corner and drive a post (see plat and notes of Sec. 35, 134-31)

On May 22nd, and 23rd, 1910, Josiah Hicks axman. Geo. Brown and Ed. Newkirk, chairmen. We pull up the wood stakes at the SE cor. and Sw corner and 1/4 corner on South side of Sec. 34, T 134 R 31. and put in each place a stone monument 8x8x36 inches in size, set in a bed of cement, and on

Dec. 13th, 1910, Harry S. Todd transitman, Arthur Hemwood and Ed Newkirk chairmen, pull up the wood stake at the NE corner and put in its place 8x8x36 inch stone monument set in a bed of cement and sand.

The names of resident witnesses are: Ed. Newkirk, Arthur Hemwood, Geo. Brown, Geo. Green, J. E. Rearick, J. Hicks.

Recorded April 4 1911.

John W. Curo
County Surveyor, Cass Co., Minn.

NOTES	
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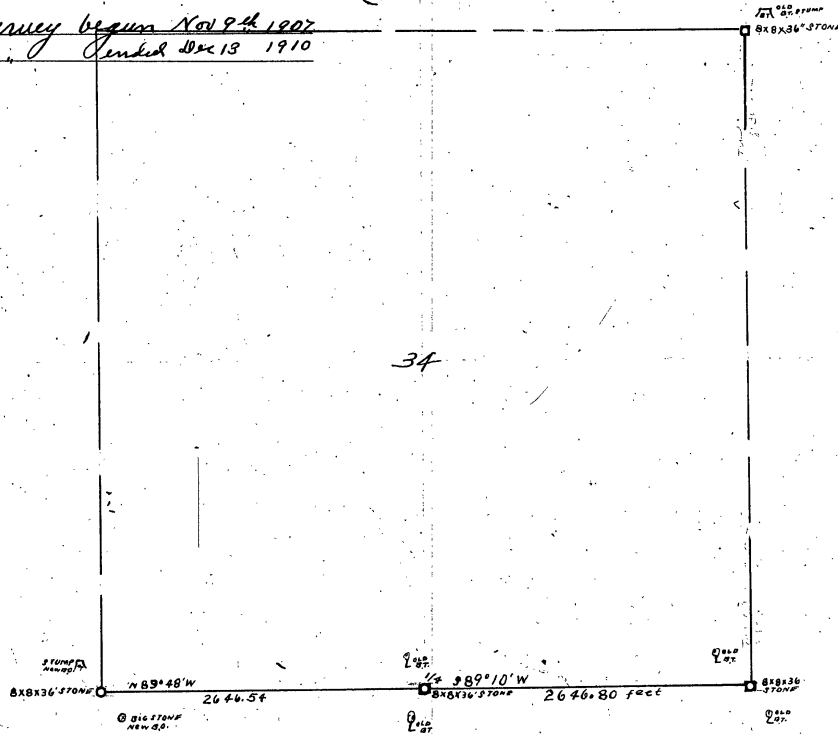
PLAT OF

Sec N^o 34 T. 134 N., R. N^o 31 W. 5. P. M.

Scale 1" = 800 ft.

SURVEY RECORD No 16

Survey begun Nov 9th 1907
Closed Dec 13 1910



Recorded April 4 1911
John W. Cline County Surveyor Cass Co. Mo.

-PLAT-
See Cont'd Page This Book
34 " " 472 " "

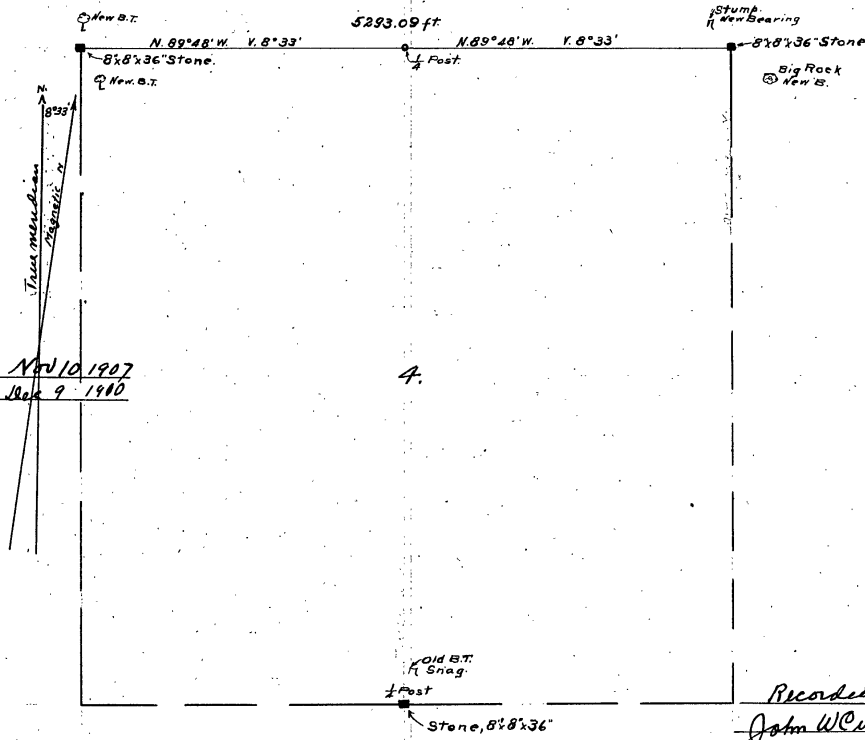
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PLAT OF

Section 4, T. 133 N., R. 31 W., 5th P.M. Minn.

Scale 1" = 800'

SURVEY RECORD No. 3.



*Survey begun Nov 10, 1907
" finished Dec 9, 1910*

4.

*Recorded Mar 1st 1911
John W. Cuss Civil Eng. Com.*

SURVEY RECORD No. 3

FIELD NOTES of the survey of Section No 4, Township No 133 N., Range No 31 W., 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

November 10th, 1907, Ed. Newkirk and George Green chainmen: I used the following instruments- A Keuffel & Esser Engineer's transit in perfect adjustment and a 100 ft Chicago Steel tape: Beginning at the true 1/4 corner of the North side of Sec 3 T. 133 R 31. (See plat and notes of sec 3-133-31) I run N 89° 45' W., Magnetic Variation 8° 30': At 2640 ft set hub for temporary NE Cor Sec 4.: All Gov't bearing trees are gone, and we continue our line: at 5280 set hub for temporary 1/4 corner on N. side of sec 4.: All the Government bearing trees are gone and we continue our line: At 7920. ft we set hub for temporary NW cor of sec 4 All Gov't bearing trees and stakes cannot be found.

November 11th, 1907, Newkirk and Green still chaining. Ren Harris axman. Continue our line. At 10560 set hub: At 13200 drive tack in culvert for temporary N. W. Cor of sec 5, no Gov't stakes or bearing trees can be found.

Nov 12th, 1907- continue our line: At 15840 set temporary 1/4 corner. All Gov't stakes or bearing trees are gone. Continue our line- At 20974.80 set hub for temporary Tw^o cor. The true Northwest corner of Township No 133 N., Range 31 W., Stands S 67° 50' W, 56. feet, or 21. ft S and 52 ft West.

As 20974.80 ft Gov't chain equals 21026.80 my chain, the length of the North side of Section 4, is 5280 ft Gov't chain equals 5293.09 feet my chain.

Nov 13th, 1907: We rechain the whole distance and find it correct.

November 14th, 1907 - Correcting our corners: At hub 2640 we measure S 67° 50' W, 7.05 ft where we place the true NE cor of section 4 T 133 R 31; with bearings as follows: Poplar stump 6, bears N 51° 30' W, 42.50 ft Highest peak of big 3 ft rock bears S 21° 45' E, 17.30 ft.

At hub No 7920 we chain S 67° 50' W, 21.15 ft where we place a stake for the true Northwest corner of section 4, T 133 R 31 with new bearing trees as follows: Poplar 4, S 9° 23' E, 33.90 ft. Poplar 2. N. 10° 10' E, 61.80 ft.

May 23rd, 1910 Ed Newkirk and Geo Brown, chainmen, we place a stone monument 8x8x36 inches in size, set in a bed of cement, at the true Northeast corner and the true Northwest corner of section 4, T 133, R 31.

At the 1/4 corner of south side of sec 4 T 133 R 31 Gov't notes call for the following bearing trees: Ash 6, N 62° E 36 links. Ash 7 S 30° W 57 links. We find the SW bearing trees plainly marked and the root of the NE bearing tree, from which we set a hub for the true 1/4 corner.

December 9th, 1910 Harry S. Todd, Deputy County Surveyor of Cass County, Minnesota, transitman, Ed Newkirk and Arthur Henwood, Chainmen set a stone monument 8x8x36 inches in size in a bed of cement at the true 1/4 corner of the south side of section 4, T 133 R 31 at the point established by me for such corner.

Recorded Mar 1st 1911

John W Curo
 County Surveyor, Cass County, Minnesota.

FIELD NOTES: Of the survey of section No. 5, Township 133 N, Range 31, W, 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

November 10th, 1907, Ed. Newkirk Axman and chairman. George Green axman and chairman. I use the following instruments: A Keuffel & Esser Engineer transit, in perfect adjustment and a 100 foot Chicago steel tape. Chaining all slopes and hills with a plumb bob.

Beg at the true $\frac{1}{4}$ post on N side of Sec 3, 133-31 previously set by me from old Govt. bearing trees (see plat and notes of Sec 3, 133-31) we run N 89°45' W., Magnetic var 8°30: At 7920 feet set hub for temporary N.E. cor of sec 5, 133-31 at which point the notes of the original Gov't survey call for a post and the following bearing trees:

Bk Oak 10, N 24 W, 30 lks. W Birch 6, N 61 E, 32 lks.
Asp 4, S 11 E, 27 lks, W Maple 6, S 18 W, 20 lks.

All are gone.

Nov. 11th, 1907 Ed Newkirk - Geo. Green, Ch. Jas. E. Rearick - Ren Harris Axman.

We continue our line: At 10560 set hub and tack for temporary $\frac{1}{4}$ on N. side sec 5 -133-31 where Gov't notes call for a post and the following bearing trees:

Aspen 6, S 51 W, 79 lks. Aspen 8, N 9 E, 82 lks.

All are gone and we continue our line:

At 13200 set tack in plank culvert for temporary NW cor Sec 5, 133-31 where Gov't notes call for a post and the following bearing trees: Bk Oak 6, N 25 E, 20 lks, Bk Oak 8, S 40 E, 36 lks, Bk Oak 8, S 85 W, 25 lks, Aspen 8, N 25 W, 33 lks.

All are gone and we continue our line:

Nov. 12th, 1907, Ed. Newkirk, George Green, Chainmen. Ren Harris axman. Continue our line and at 20974.80 feet set hub for temporary NW cor of Twp. 133 R, 31. The true corner stands S 67° - 50 W, 56 feet, or 21 feet S. & 52 ft, West, showing that 20974.80 ft. Gov't chain equals 21026.80 ft my chain, making the length of the north boundary of sec. 5 as follows: 5280 ft Gov't chain equals 5293.09 ft. my chain.

Nov. 13th, 1907, We re-chain the whole line above mentioned and find it correct. Newkirk and Green chainmen. No axmen.

Nov. 14th, 1907. Correcting the corners, we go east to tack 13200 in culvert being the temporary NW cor. sec. 5 and chain S 67° 50' W 35.24 feet where we place the true NW cor. Sec. 5, 133-31 with bearings as follows:

Tack in culvert bears N 67° 50' E 35.24 feet. Br. Oak 2, S 79° 45' E, 34 ft.
Br Oak 2, S 8° 25' W, 12.10 ft. Br. Oak stump 2, N 38° 20' W, 11.60 ft.

At hub 10560. we chain S 67-50 W. 28.19 ft and set true $\frac{1}{4}$ post on N side of Sec 5. No bearings near. At hub 7920. we chain S 67° 50' W 21.15 feet and set stake at true NE cor. sec. 5, 133-31 with new bearings as follows: Poplar 4, S 89° 23' E 33.90 ft. Poplar 2, N 10° 10' E, 61.80 ft.

May 23rd, 1910. Ed. Newkirk & Geo. Brown Ch. At the true NE corner and the true NW corner of Sec. 5 133-31 we pull up the wood stakes and place at each place, a stone monument 8x8x36 inches in size, set the full length in the ground in a bed of concrete. All courses turned from the true meridian. The names of resident witnesses are as follows: James E. Rearick, Ed. Newkirk, Geo. Green and George Brown.

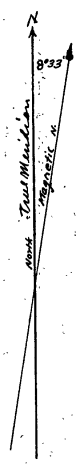
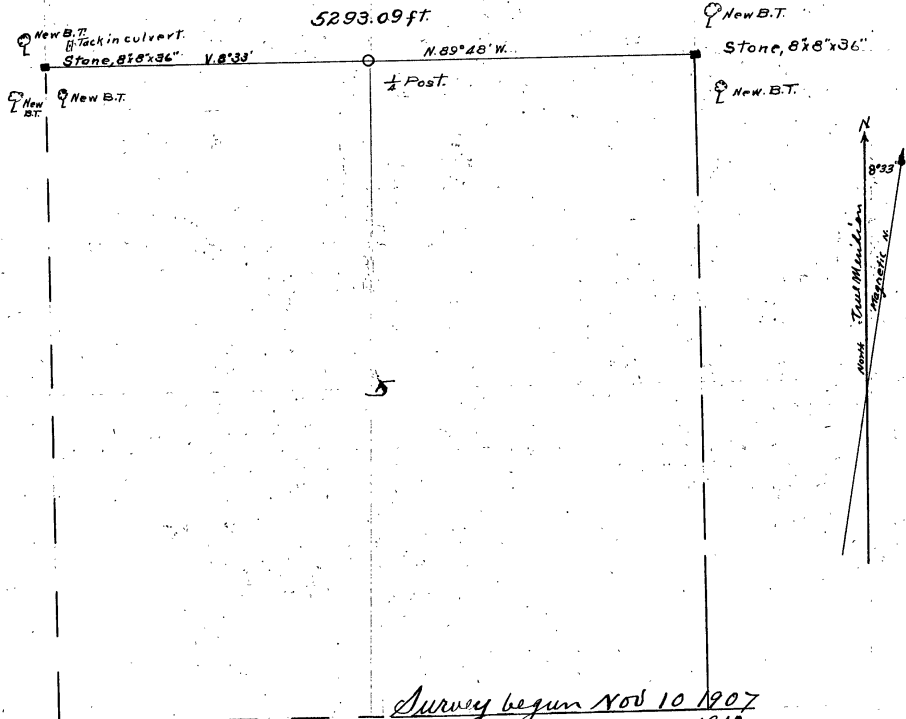
Recorded Mar 1st 1911

John W. Curo
County Surveyor, Cass Co., Minn.

PLAT OF

Section 5, T. 133 N., R. 31 W., 5th P.M. Minn.
Scale 1" = 200'

SURVEY RECORD No. 4



Survey begun Nov 10 1907
ended May 23 1910

Recorded Mar 1st 1911

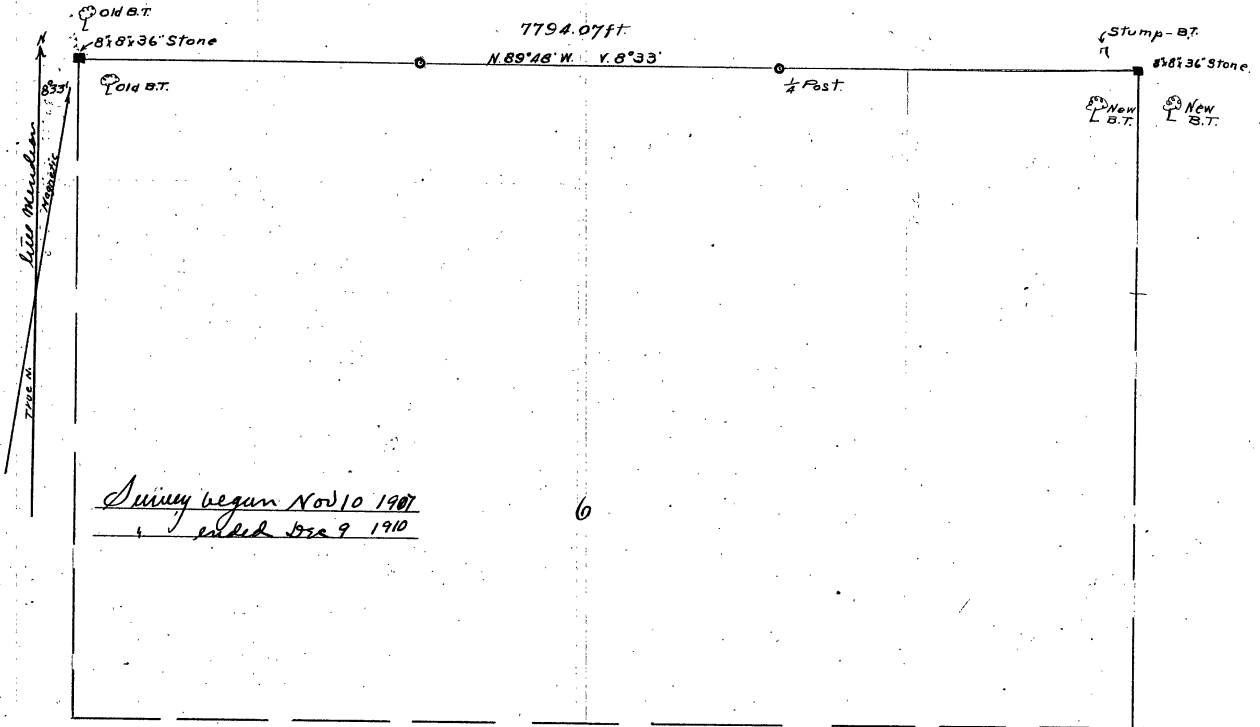
John W. Cull
County Surveyor Cor. Co. Minn.

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PLAT OF

Section 6, T. 133 N., R. 31 W., S. 4 P.M., Minn.
Scale 1" = 800'

SURVEY RECORD No. 5



Recorded Mar 1st 1911
John W. Cuss & Co. Surveyors & Co. Minn.

Field Notes: of the survey of sec. 6, twp. 133 N. Range 31 W, 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.
 Nov. 10th, 1907. Ed. Newkirk Axman and chairman. Geo. Green Axman and chairman. I use the following instruments: A. Keuffel and Esset Engineers' transit, in perfect adjustment, and a 100 foot Chicago steel tape, and use a plumb bob in chaining slopes and hills. Beginning at the $\frac{1}{4}$ cor. on the N side of Sec. 3, 133-31, previously established by me, from old Gov't bearing trees, (see plat and notes of Sec. 3, 133-31) run N 89° 45' W; Magnetic var 8° 30'.

At 13200 ft tack in plank culvert for temporary NE cor. Sec. 6, 133-31. All Gov't bearing trees gone.

Nov. 11th, 1907. Ed. Newkirk and Geo. Green chairmen. Ja. E. Fearick and Ben Harris axmen. At 15800. ft enter creek, bears S.: at 15829 lv. creek: at 15840. set hub temporary $\frac{1}{4}$ corner on N. side of sec. 6, 133-31., where Gov't notes call for "Aspen 10, N 4 E, 325 lks." All Gov't bearing trees are gone.

Nov. 12th, 1907. George Green and Ed. Newkirk chairmen, Ben Harris axman. Continuing at 16065. lv. river bottom: at 16245.70 set hub in bank wash out: at 18477.20 drive spike in root of stump: at 18480.10 set hub 30. ft east of centre of Motley road: at 18720. enter big bog: at 19740. lv. big bog.

Nov. 13th, 1907. Ed. Newkirk axman and chairman. Geo. Green axman and chairman. Continuing: at 20974.80 ft. set hub for temporary NW cor. of 6, 133-31: true Twp. corner stands S 67° 50' W, 56 ft. or 21. ft south and 52 ft. west, showing that 20974.80 ft. Gov't chain, equals 21026.80 ft my chain making the length of the N. boundary of sec. 61, as follows: 7774.80 ft. Gov't chain equals 7794.07 ft. my chain.

At the NW corner of Twp. 133 R. 31 Govt. notes call for NW Pine 9, N 29.5 E, 164 lks. Pine 10, S 85.3/4 E, 263 lks. Pine S S 16.1/2 W, 157 lks. I find the SE bearing tree plainly marked and the NE bearing tree dimly marked from which I set hub for true corner, Measurements on corners check out perfect. We re-chain the whole line above mentioned and find it correct.

Nov. 14th, 1907. from tack No. 13200 we chain S 67° 50' W, 35.24 ft and set stake for true NE cor. of Sec. 6, 133-31 with new bearings as follows.

Tack in culvert bears N 67° 50' E, 35.24 ft. Br. Oak 2, S 79° 45' E. 34. ft. Br. Oak 2, S 8° 25' W, 12.10 ft. Br. Oak stump 2, N 38-20 W. 11.60 ft.

May 23rd, 1910. Ed. Newkirk and Geo. Brown, chairmen: we set a stone monument, 8x8x36 its full length in the ground, at the point previously established by me at the true NE corner of Sec. 6, 133-31.

Dec. 9th, 1910. Harry S. Todd, Deputy County Surveyor, Cass Co., Minn. transit, Ed. Newkirk and Arthur Henwood, chairmen. place a stone monument 8x8x36 inches in size in a bed of cement at the point established by me for the true NW cor. Sec. 6, 133-31 according to the above notes.

Recorded Mar 1st 1911

John W. Curo
 County Surveyor, Cass Co., Minn.

Field Notes: of the survey of section 1, Township No. 133 N. Range 32, 5th Principal Meridian, as surveyed by John W. Curio, County Surveyor of Cass County, Minnesota.

Nov. 8th, 1907, Ed. Newkirk and George Green axmen and chairmen: I use the following instruments: A Keuffel & Esser Engineers transit in perfect adjustment, and a 100-foot Chicago steel tape:

We use a plumb bob in order to chain the slopes and hills.

We drive to a point which we believe to be the NE cor of Sec. 1, 133-32 where we find an iron monument, almost the shape of an ordinary carpet tack, it is 2 ft. long and has a head about 3 inches square: it sets in a meadow, loose in the ground and has the appearance of having been moved a great many times, as there are numerous holes in the ground for a radius of a rod.

We find some bearing trees, but as other corners have similar bearing trees, we decide to go east to some known corner and chain west so as to check up on the Government measurements.

Nov. 9th, 1907, Going to the NW corner of sec. 2, 133-31 we find the old Govt. bearing trees from which we set the true corner (see plat and notes of sec. 2, 133-31) and chain West 2646.80 ft. where we find the old Govt. bearing trees to the $\frac{1}{2}$ corner on the N side of Sec. 3, 133-31 from which we set the true corner (see plat and notes of Sec. 3, 133-31).

Nov. 10th, 1907.

Beginning at the $\frac{1}{2}$ corner on the N. side of Sec. 3, 133-31 we chain West along the township line but find no Govt. bearing trees 7920. ft set hub.

Nov. 11th, 1907. Ed. Newkirk and Geo. Green, chairmen. Jas. E. Rearick and Ren Harris, axmen, we continue our line west but find no Govt. bearing trees and at 13200. set hub.

Nov. 12th, 1907, Ed. Newkirk and George Green chairmen, Ren Harris axman. We continue our line West but find no Govt. bearing trees, and at 20974.80 ft. set a hub for the temporary NE cor. of Twp. 133-32.

The true Twp. cor. bears S- 67°50' W, 56. feet.

At the NE cor. Sec. 1, 133-32 Govt. notes call for the following bearing trees: Pine 9, N 29 $\frac{1}{2}$ E. 164 lks. Pine 10, S 85.3/4 E, 263 lks. Pine 8, S 16 $\frac{1}{2}$ W, 157 lks.

We find the SE bearing tree plainly marked, and the NE bearing tree dimly marked being almost rotted, from which we set the true Twp corner, by flat measurement, after which the trees stand perfect for course.

Dec. 9th, 1910 Harry S. Todd, Deputy County Surveyor of Cass Co. Minn. transitman:

Ed. Newkirk and Arthur Henwood, Chairmen: place a stone monument, 8x8x36 inches, in a bed of cement, at the point established by me, for the true NE corner of Sec. 1, R. 133, R. 32 according to the above notes. And the names of the resident witnesses are as follows:

Ed. Newkirk, Arthur Henwood and Geo. Green.

Recorded Mar 1st 1911

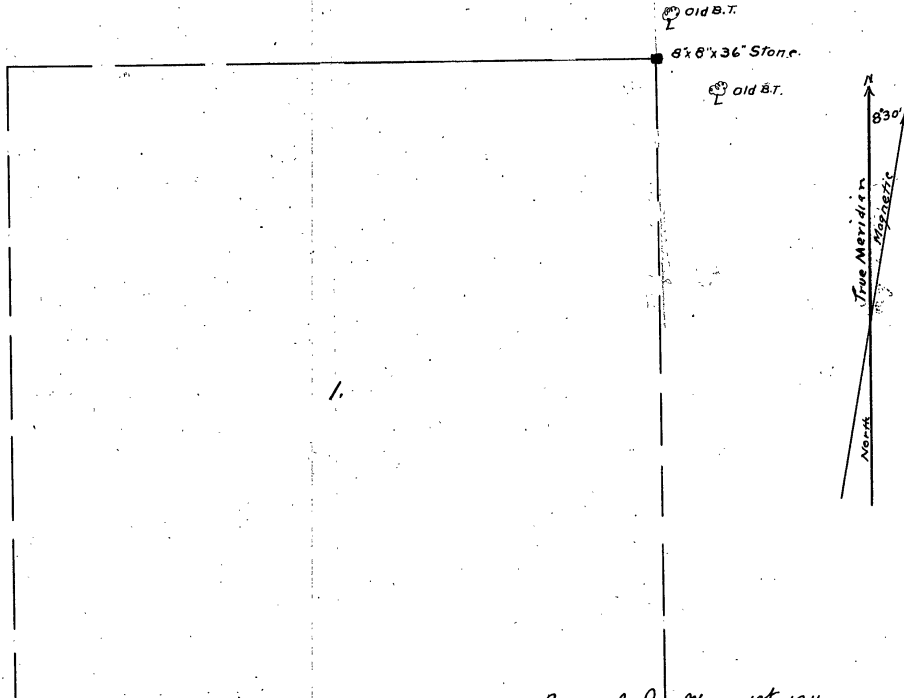
John W. Curio
County Surveyor, Cass Co., Minnesota.

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PLAT OF

Section 1, T. 133 N., R. 32 W., 5th P.M., Minn.
Scale 1" = 875'

SURVEY RECORD No 6



Survey begun Nov 8 1907
finished Dec 9 1910

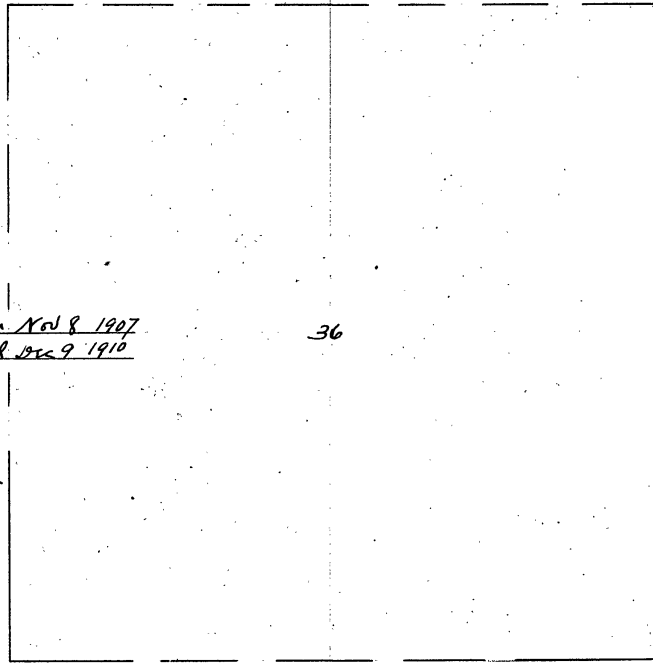
Recorded Mar 1st 1911
John W. C. Co. Surveyors Co. Minn.

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PLAT OF

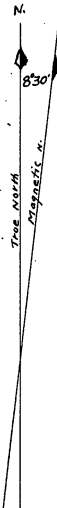
Section 36, T.134 N., R. 32 W., 5th P.M., Minn.
Scale 6" = one mile

SURVEY RECORD No. 7



Survey begun Nov 8 1907
finished Dec 9 1910

36



Old B.T.

8x8x36" Stone

Old B.T.

Recorded Mar 2nd 1911
John W. Cress County Surveyor
Com' Co Minn

- PLAT -	
Sec' Cont'd to Page of Book	
36	- 588 - A

Field Notes: of the survey of Section No. 36, Township No. 134 N. Range No. 32, W. 5th
 Principal Meridian: As surveyed by John W. Curo, County Surveyor of Cass County, Minnesota:
 Nov. 8th, 1907, Ed. Newkirk and George Green axmen and chainmen: I use the following instruments
 A. Keuffel & Esser Engineers' transit No. 8951. in perfect adjustment and a 100. foot Chicago
 steel tape.
 We use a plumb bob to level the tape in mearusing slopes and hills:
 We drive to a point which we believe to be the SE corner of Sec. 36, 134-32, where we find an
 iron monument almost the shape of an ordinary carpet tack: it is 2. ft. long and has a
 head about 8 inches square: it sets in a meadow, loose in the ground and has the appearance
 of having been moved a great many times, as there are numerous holes in the ground for a radius
 of a rod.
 We find some bearing trees, but as other corners have similar bearing trees, we decide to go
 East to some known corner and chain west, as as to check up on the Govt. measurement.
 Nov. 9th, 1907, Going to the NW cor. Sec. 2, 133-31, we find the old Govt. bearing trees,
 from which we set the true corner. (see plat and notes of Sec. 2, 133-31) and chain west 2646.80 ft.
 where we find the old Govt. bearing trees to the 1/4 post on the N side of Sec. 3, 133-31, from
 which we set the true corner, (see plat and notes of Sec. 3, 133-31)
 Nov. 10th, 1907.
 Beg at the 1/4 cor. on N side of Sec. 3, 133-31, we chain Westerly along the Twp. line, but find no
 Govt. bearing trees: At 7920. Ft set hub.
 Nov. 11th, 1907.
 Ed. Newkirk and Geo. Green, Chainmen, Ja. E. Reerick and Ren Harris, axmen: We continue our
 line west but find no govt. bearing trees, and at 13200. ft set hub.
 Nov. 12th, 1907, Ed. Newkirk and George Green chainmen, Ren Harris axman. We continue our
 line west but find no Govt. bearing trees, and at 20974.80 ft. set a hub for the temporary SE
 corner of Twp, 134-32:
 The true twp. cor. bears S 67° 50' W. 56 ft.
 At the SE cor. of Sec. 36, 134-32. Govt. notes call for the following bearing trees: Pine 9, N
 29 1/2 E. 164 lks. Pine 10, S 85 3/4 E. 263 lks. Pine 8, S 16 1/2 W. 157 lks.
 We find the SE BT plainly marked and the NE BT dimly marked, being almost rotted away, from which
 we set the true SE cor. Sec. 36, 134-32 by flat measurement from the bearing trees, after which the
 BTS stand perfect for course.
 Dec. 9th, 1910. Harry S.W. Todd, Deputy County Surveyor of Cass County, Minn. transitman:
 Ed Newkirk and Arthur Herwood, chainmen: place a stone monument, 8x8x36 inches in size, in a
 bed of cement, at the above point established by me for the true southeast corner of Sec. 36,
 134-32.

Recorded Mar 2nd 1911

John W. Curo
County Surveyor of Cass County, Minn.

-NOTES-			
See Cont'd to Page of Book			
36	"	511	" A"

2

Field Notes of the survey of Section No. 17, Township No. 133 N Range 31, W. 5th Principal Meridian, As surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

May 20th, 1910. Ed. Newkirk Chairman. Geo. C. Brown, Chairman, A. Roswald, axman,

We use the following instruments:

A. Keuffel and Esser Engineer's transit No. 8951. in perfect ^{adjustment} and a 300. foot Chicago steel tape: We use a plumb bob to level the chain in taking measurements on uneven ground.

At the corner of Secs. 8, 9, 16 and 17, being the NE corner of Sec. No. 17, T. 133 N, R. 31 W, the notes of the original Govt. survey call for a post and the following bearing trees:

Aspen 7, S 9 3/4 E, 49 lks. dist. Asp. 8, S 44 W, 30 lks. dist, Elm 15, N 70 1/2 W, 54 lks. distant.

We find the old Govt. bearing trees standing, plainly marked from which we establish the points for the true corner by flat measurement from the face of the trees, after which we place the transit over the point thus established and find each bearing stands perfect for course and distance.

In order to establish a stone monument at this corner we ^{chop} a hole through an old corduroy which has been built for a wagon road running east and west.

We dig a trench in the swampy ground 2 1/2 feet deep and 1 foot wide by 7 feet long: it extends 3 feet east and 3 feet north of the point for the true corner and forms a triangle: Into this trench we pour a mixture of good concrete made of 1 part portland cement and 5 parts sharp sand, into which we place a stone monument 8x8x36 inches in size, for the true NE corner of section 17-133-31: we then fill the trench full of small rock, sand and earth which holds the monument firmly in place until the cement sets, after re-placing the corduroy the top of the stone is about 6. inches above ground.

At this point small trees have grown up through the corduroy, showing that the wagon road has not been used for years.

The names of resident witnesses are as follows: Ed. Newkirk. George C. Brown, and A. Roswald.

Recorded Mar 2nd 1911

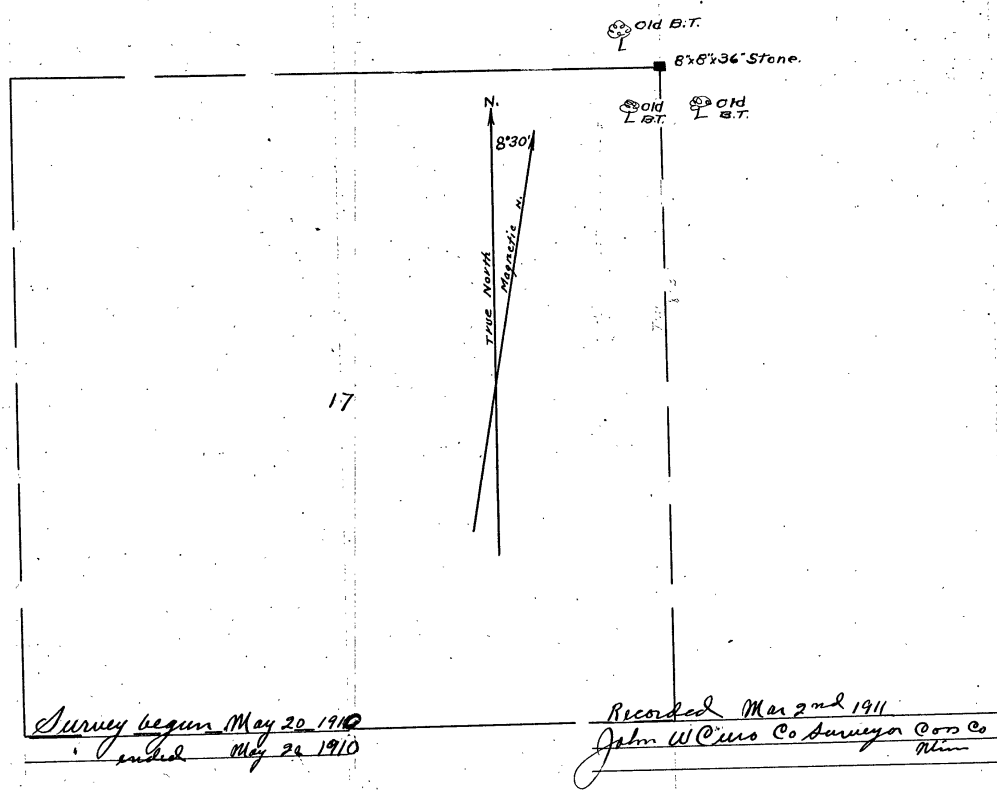
John W. Curo
County Surveyor, Cass Co., Minn.

A

PLAT OF

Section 17, T. 133 N., R. 31 W., 5th P.M., Minn.
Scale 1" = one mile

SURVEY RECORD No 8



17

Survey begun May 20 1910
ended May 22 1910

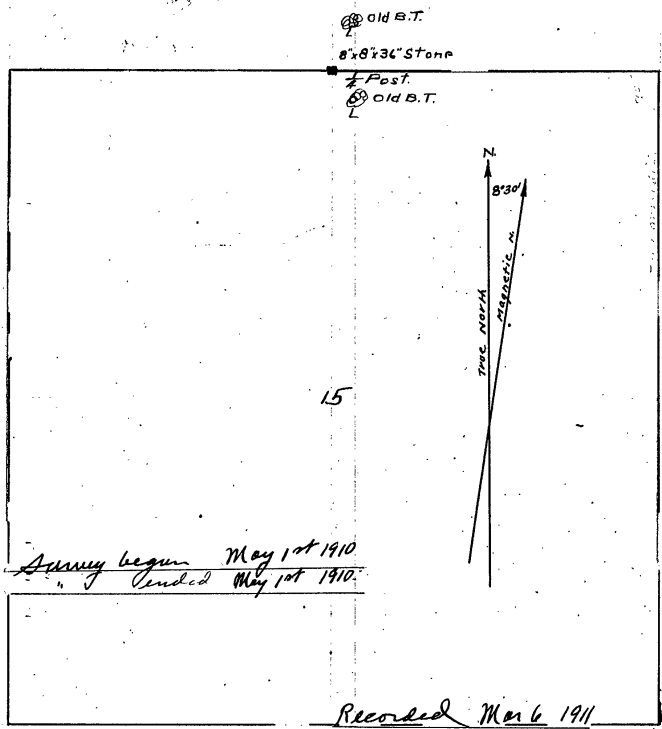
Recorded Mar 2nd 1911
John W. C. Co. Surveyors

A
PLAT OF

Sec. 15, Twp. 133 N., R. 31 W., 5th P.M., Minnesota.

Scale 1" = 875 Feet

SURVEY RECORD No 13



15

Survey begun May 1st 1910
ended May 1st 1910

Recorded Mar 6 1911

John W. Cass
Co. Surveyor Don Co. Minn.

Field Notes: Of the survey of Section No. 15, Township No. 133 N. Range No. 31, W. 5th: Principal Meridian, as surveyed by John W. Curo, County surveyor of Cass County, Minnesota: May 21st, 1910. Ed. Newkirk, George C. Brown, A. Roswald. Chairmen. I use the following instruments: A Keuffel & Esser, Engineers' transit in perfect adjustment and a 300 foot Chicago steel tape.

We use a plumb bob in taking measurements on uneven ground. All courses turned from the true Meridian.

At the $\frac{1}{4}$ corner on the North side of Sec. 15, T 133, R. 31, the notes of the original Govt. survey call for a post and the following bearing trees: Spruce 4, N. 18° E, 16 lks. distant. White Birch 7, S. 14° E. 26. links distant.

We find the bearing trees plainly marked from which we set the point for the true $\frac{1}{4}$ corner by flat measurement from the face of the bearing trees. Setting transit on the point thus established, the bearing trees stand perfect for course and measurement.

We set a stone monument 8x8x36 inches in size, in a bed of cement, at the true $\frac{1}{4}$ corner on the North side of Sec. 15, T. 133, R. 31.

The names of the resident witnesses are as follows: Ed. Newkirk, Geo. C. Brown, A. Roswald.

Recorded Mar 6th 1911

John W. Curo
County Surveyor, Cass Co., Minn.

Field Notes: of the survey of Section No. 16, Township No. 133 N. Range No. 31, W. 5th Principal Meridian: As surveyed by John W. Curo, County Surveyor of Cass County, Minnesota. May 20th, 1910. Ed. Newkirk, Chairman. Geo. C. Brown, Chairman. A. Roswald, axman.

We use the following instruments: A. Keuffel and Esser Engineers transit No. 8951, in perfect adjustment, and a 300. foot Chicago steel tape: We use a plumb bob to level the chain in taking measurements on uneven ground.

At the corner to Sections 8, 9, 16 and 17, being the North West corner of Sec. No. 16, T. No. 133, N. R. No. 31, W. the notes of the original Govt. survey, call for a post and the following bearing trees:

Aspen 7, S 9 3/4 E. 49 lks. distant. Aspen 8, S 44 W. 30 lks. distant. ELM 15, N 70 1/2 W, 54 lks. distant.

We find the old Govt. bearing trees standing, plainly marked, from which we establish the point for the true corner, by flat measurement from the face of the trees, after which we place the transit over the point thus established, and find that each bearing tree stands perfect for course and measurement.

In order to establish a stone monument at this corner, we chop a hole through an old corduroy, which has been built for a wagon road running East and West.

We dig a trench in the swampy ground 2 1/2 feet deep, and 1 foot wide by 7 feet long. It extends 3 feet E. and 3 feet N. of the point for the true corner, and forms a triangle: Into this trench we pour a mixture of good concrete, made of 1 part Portland cement and 5 parts clean sharp sand, into which we place a stone monument, 8x8x36 inches in size, for the true NW cor. of Sec. 16, 133-31: we then fill the trench full of small rock, sand and earth, which holds the monument firmly in place until the cement sets.

After re-placing the corduroy, the top of the stone is 6 inches above ground.

At this point small trees have grown up through the corduroy showing that the wagon road has not been used for years.

At the corner on the N. side of Sec. 16, of this township the Govt. notes of the original survey call for a post and the following bearing trees:

Aspen 5, S 1 1/2 E, 162. links dist. Asp. 4, N 71 E, 56 links. distant. All appear to be gone.

At the NE cor. of Sec. 16, 133-31, the notes of the original Govt. survey call for a post and the following bearing trees: Aspen 3, S 27 E, 238 links dist. Aspen 4, N. 28 W, 53 lks. dist. Asp. 4, N 40 E, 45 links distant. Birch 6, S 54 W, 76 lks. dist. All appear to be gone.

The names of the resident witnesses are as follows: Ed. Newkirk. George C. Brown, A. Roswald.

Recorded Mar 2nd 1911

John W. Curo
County Surveyor, Cass Co., Minn.

A

PLAT OF

Sec. 16, T. 133N., R. 31W., 5th P.M. Minn.

Scale 1" = 175'

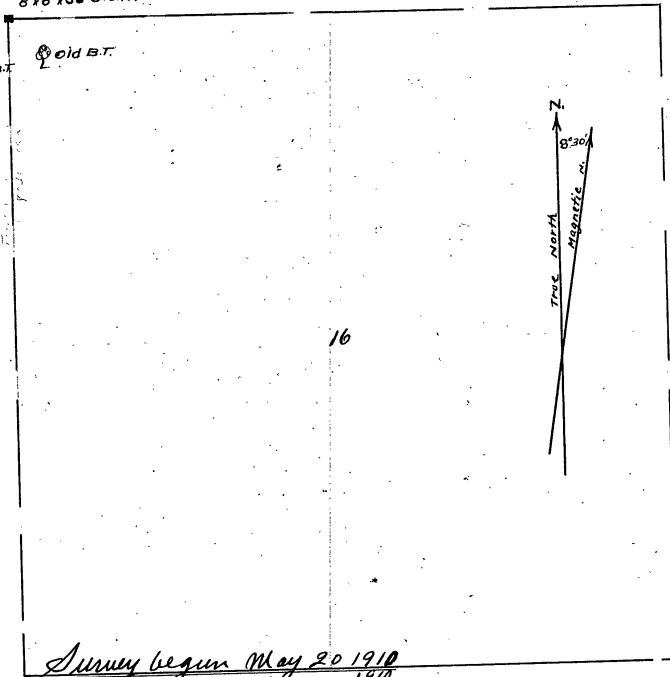
SURVEY RECORD No. 9

Old B.T.

8"x8"x36" Stone

Old B.T.

Old B.T.



16

Survey begun May 20 1910
ended May 20 1910

Recorded Mar 2nd 1911.
John W. Carr County Surveyor Cass Co Minn.

A
PLAT OF

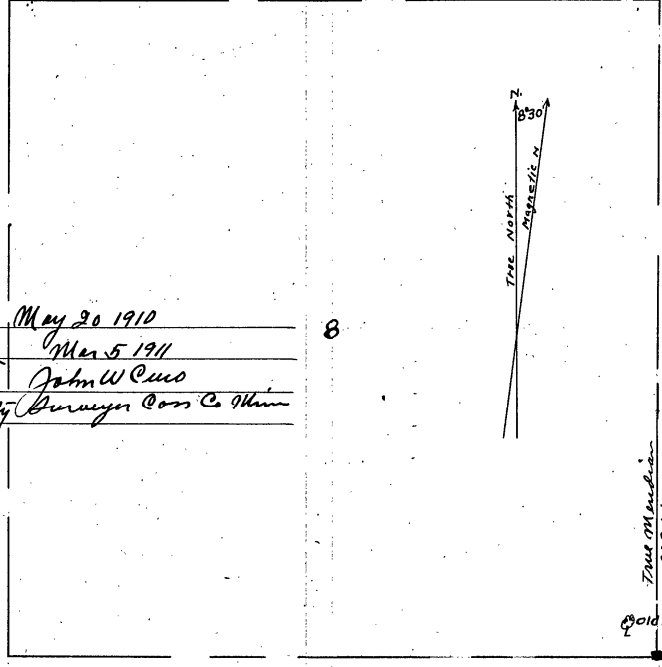
Sec. 8, T. 133 N., R. 31 W., 5th P.M. Minn.

Scale 1" = 875'

SURVEY RECORD No 10.

Surveyed	May 20 1910
Recorded	May 5 1911
John W. Cuss	
County Surveyor Cass Co. Minn.	

8



Old B.T.

8'x6'x36' Stone.

Old B.T.

Old B.T.

Field Notes: of the survey of Section No. 8, Township No. 133 N, Range No. 31 W. 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

May 20th, 1910, Ed. Newkirk, Chairman, Geo. C. Brown, Chairman, A. Roswald, Axman. We use the following instruments: A Keuffel & Esser Engineers' transit, No. 9851, in perfect adjustment, and a 300 foot Chicago steel tape. We use a plumb bob to level the chain in taking measurements on uneven ground.

At the corner of Sections 8, 9, 16 and 17, being the SE cor. of Sec. No. 8, T. No. 133 N. R. No. 31, W, the notes of the original Govt. survey, call for a post and the following bearing trees:

Aspen 7, S 9 $\frac{3}{4}$ E, 49 lks, distant. Aspen 8, S 44 W, 30 lks, dist. Elm 15, N 70 $\frac{1}{2}$ W, 54 links distant.

We find the old Govt. bearing trees standing, plainly marked from which we establish the point for the true corner, by flat measurement from the face of the bearing trees, after which we place the transit over the point thus established, and find that each bearing tree stands perfect for course and measurement.

In order to establish a stone monument at this corner, we chop a hole through an old corduroy, which has been built for a wagon road running East and West.

We dig a trench in the swampy ground 2 $\frac{1}{2}$ ft. deep, and 1 ft wide by 7 ft. long: it extends 3 ft. E, and 3 ft. N. of the point for the true corner and forms a triangle, into this trench we pour a mixture of good concrete, made of one part Portland cement, and five parts clean sharp sand, into which we place a stone monument, 8x8x36 inches in size for the true SE cor. of Sec 8, 133-31: we then fill the trench full of small rock, sand and earth, which holds the monument firmly in place until the cement sets.

After re-placing the corduroy, the top of the stone is 6 inches above ground.

At this point small trees have grown up through the corduroy, showing that the wagon road has not been used for years.

At the $\frac{1}{2}$ on the N. side of Sec. 8, 133-31, the notes of the original Govt. survey call for a post and the following bearing trees: Aspen 13, S 55 $\frac{1}{2}$ E, 41 lks. distant. Asp. 12, N. 33 $\frac{3}{4}$ E. 29 lks. distant. I have looked for these bearing trees and post but found nothing.

At the NE cor. Sec. 8, 133-31, the notes of the original Govt. survey call for a post and the following bearing trees: Asp. 5, N 63 E, 27 lks. distant. Aspen 14, S 7 $\frac{3}{4}$ E. 27 lks. dist. Aspen 15, S 60 $\frac{3}{4}$ W, 54 lks. dist. Ash 5, N 38 $\frac{3}{4}$ W, 43 lks. distant. All appear to be gone.

At the $\frac{1}{2}$ corner on the East side of Sec. 8, 133-31 the notes of the original Govt. survey call for a post and the following bearing trees: White Oak 12, S 63 $\frac{1}{2}$ W, 17 links dist. As Aspen 9, S 19 E, 37 links distant. I search for them but find nothing.

The names of the resident witnesses are as follows: Ed Newkirk, Geo. C. Brown, A. Roswald.

Recorded Mar 5 1911

John W. Curo
County Surveyor, Cass Co., Minn.

Field Notes: of the survey of Section No. 9, Township No. 133 N, Range No. 31, W. 5th, Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

May 20th, 1910, Ed. Newkirk, Chairman, Geo. C. Brown chairman, A. Roswald, axman.

I use the following instruments: A Keuffel & Esser Engineers' transit and a 300 foot Chicago steel tape.

At the corner to sections 8, 9, 16 and 17, being the Southwest corner of section 9, T. 133 R. 31, the notes of the original Govt. survey call for a post and the following

bearing trees:

Aspen 7, S 9 3/4° E, 49. links. Aspen 8, S 44° W. 30 links. Elm 15, N 70 1/2° W, 54 links.

We find the old Govt. bearing trees standing, plainly marked from which we establish the point for the true corner by flat measurement from the face of the bearing trees, after which we place the transit over the point thus established, and find that each bearing tree stands perfect or course and measurement.

In order to establish a stone monument at this point, we chop a hole through an old corduroy which has been built for a wagon road running East and West.

We dig a trench in the swampy ground, 2 1/2 ft. deep and 1 foot wide by 7 ft. long: it extends 3 ft. E. & 3 ft. N. of the point for the true corner, and forms a triangle: Into this trench we pour a mixture of good concrete, made of one part Portland cement and five parts clean sharp sand, into which we place a stone monument, 8x8x36 inches in size for the true SW cor. of Sec. 9, T. 133, R. 31: We fill the trench full of small rock, sand and earth which holds the monument firmly in place until the cement sets.

After re-placing the corduroy, the top of the stone is 6 inches above ground. At this point small trees have grown up through the corduroy, showing that the wagon road has not been used for years.

At the 1/4 corner on the North side of Section 9, T. 133, R 31 Govt. notes call for a post and the following bearing trees:

Ash 6, N 62° E. 36 links. Ash 7, S 30° W, 57 links.

We find the SW bearing trees plainly marked, and the top of the NE bearing tree, from which we set a hub for the true 1/4 corner.

Sec. 9th, 1910. Harry SW Todd, Deputy County Surveyor of Cass County, Minnesota, transitman. Ed Newkirk and Arthur Herwood, chairmen, set a stone monument, 8x8x36 inches, in size, in a bed of cement, at the true 1/4 corner on the South side of Sec. 4, T. 133 R. 31 at the point established by me for such corner.

The names of resident witnesses are as follows: Ed. Newkirk, Geo. C. Brown, A. Roswald.

Recorded Mar 5 1911

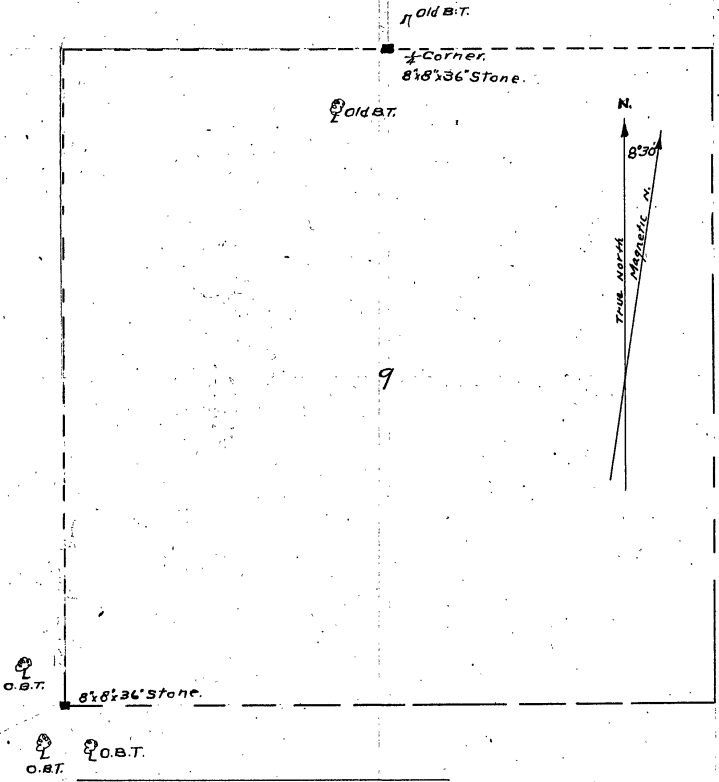
John W Curo
County Surveyor, Cass Co., Minn.

A
PLAT OF

Sec. 9, Twp. 133 N., R. 31 W., 5th PM, Minnesota

Scale 1" = 175'

SURVEY RECORD No 11



Survey begun May 20 1910
 " finished Dec 9th 1910

Recorded Mar 5 1911
 John W. Cress
 County Surveyor Cass Co
 Minn

A

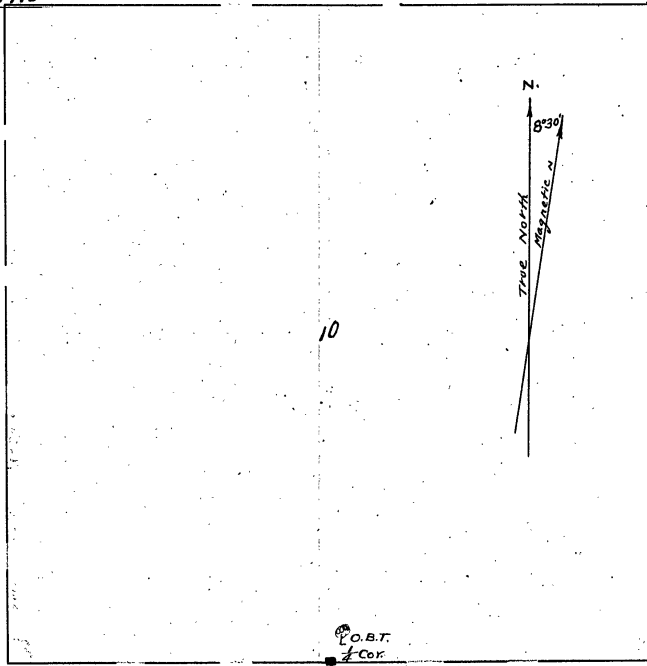
PLAT OF

Section 10, Twp. 133 N., R. 31 W., 5th P.M. Minn.

Scale 1" = 875'

SURVEY RECORD No 12

Surveyed May 21st 1910



O.B.T.
COR
8x8x36 Stone.
O.B.T.

Recorded Mar 5 1911
John W Curo Co Surveyor
Min

Field Notes: of the survey of Section No. 10, town ship No. 133 N. Range No. 31 W, 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

May 21st 1910, Ed. Newkirk chairman. George Brown, Chairman. A. Roswald, chairman.

At the $\frac{1}{4}$ corner on the south side of Sec. 10, T. 133 N. R. 31 W. the notes of the original Govt. survey call for a post and the following bearing trees:

Spruce 4 N 18° E. 16 lks. distant. White Birch 7, S 14° E, 26 lks. distant. We find the bearing trees plainly marked from which we set the true corner by flat measurement from the face of the bearing trees, after which the trees stand perfect for course and measurement.

At this point we set a stone monument 8x8x36 inches in size, in a bed of cement at the true $\frac{1}{4}$ corner on the south side of Sec. 10 Twp, 133 N, rge. 31 W.

The names of resident witnesses are as follows: Ed. Newkirk, Geo. C. Brown, A. Roswald.

In the above survey I use the following instruments: A Keuffel and Esser Engineers' transit in perfect adjustment and a 300 foot Chicago steel tape.

All courses turned from the true Meridian, and measurements taken with a steel tape, and a plumb bob.

Recorded *Mar 5 1911*

John W. Curo
County Surveyor, Cass County, Minn.

Field Notes: of the survey of Section No. 35, Township No 134 N. Range No. 31, W. 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

November 9th, 1907, Ed. Newkirk, chairman, Geo. Green chairman. I use the following instruments: A Keuffel & Esser transit; and a 100 foot Chicago steel tape.

At the Southwest corner of Sec. 35, Township 134 N. Range 31 W. the notes of the original Govt. survey call for a post and the following bearing trees: Tam. 10, S 40° W, 6 links. Tam. 8, S 40° E, 3 links. Tam 8, N 75° E, 5 links. Tam. 7, N 25° W. 15 links.

We find the following bearing trees: Tam. 8 S. 40° E, 3 links. Tam 7 N 25° W, 15 links, but the distance between them by way of the courses is 13.13 feet or 1.25 ft longer than Govt. measure.

We set a stake for the true corner by proportionate measurement after which the trees stand as follows: Tam. 8, S. 40° E, 1.98 ft. Govt. chain equals 2.19 ft my chain. Tam 7, N 25° W. 9.90 ft. Govt. chain equals 10.94 ft. my chain.

May 22nd, 1910, Ed. Newkirk and Geo. Brown, chairman. Josiah Hicks axman. We pull up the wood stake, and put in its place an 8x8x36 inch stone monument, set in a bed of cement for the true SW Cor. Sec. 35, T. 134, R. 31, as established by the above notes.

Nov. 15th, 1907, Ed. Newkirk & James E. Rearick, chairman. Geo. Green axman. At the NW Corner of Section 35, T 134 R. 31, Govt. notes call for a post and the following bearing trees:

Aspen 4, N 10° W, 12 links; Aspen 10, N 48° E, 25 links,
Aspen 8, S 80° W, 60 links, Aspen 16, S 65° E, 40 links.

All are gone except the Aspen 10, N 48° E. 25 links. We find this tree cut off and laid in a culvert, but the stump stands, and is the only stump any place near: We match the tree onto the stump and the marks correspond. We set the true corner from the stump and drive a 4x4x48 inch wood plug at the point, and run east on a Magnetic Variation of 8°30' E. At 1323.30 feet set hub for temporary 1/16 corner at 2646.6 ft. set temporary 1/4 corner. Old Govt. bearing trees are gone. At 3969.90 ft. set temporary 1/16 cor. at 5293.20 set hub for temporary NE Cor. of Sec. 35, Govt. notes for:

Pine 4, N 87½° E, 313. links, N. Pine 8, S 2° W. 510 links,
N. Pine 10, S 27 ¾° E. 500 links.

We find the stumps of the SE and SW trees, plainly marked "B. T." from which we set the true corner by proportionate measurement and established new bearing trees as follows:

Jack Pine 8 N. 45° 45' E. 50.45 ft. Norway Pine 12 N 22° 30' W. 21.15 feet,
Jack Pine 10 S 73° 20' E. 29.30 ft. Norway Pine 8 S 49° 30' W. 19.10 ft.
Var 8°30' See plat and notes of Sec. 36, 134 - 31.

Setting transit on Hub No. 5293.20 E. the true corner just set bears N 36° 30' W. 67°30 feet or 40. ft W. & 54. ft N. making the length of the N. boundary of Sec. 35, of 5293.20 ft Govt. chain equals 5253.20 ft my chain.

Dec. 13th, 1910: Harry S. Todd transitman, Arthur Herwood and Ed. Newkirk, chairmen. Pull up the wood stake at the NW Cor. of 35, and at the NE Cor. of Sec. 35, 134-31 and put in each place a stone monument 8x8x36 inches set in a bed of cement and sand.

The names of resident witnesses are: Ed. Newkirk, Arthur Herwood, James E. Rearick and George Green.

Recorded Apr 4 1911

John W. Curo
County Surveyor, Cass Co., Minn.

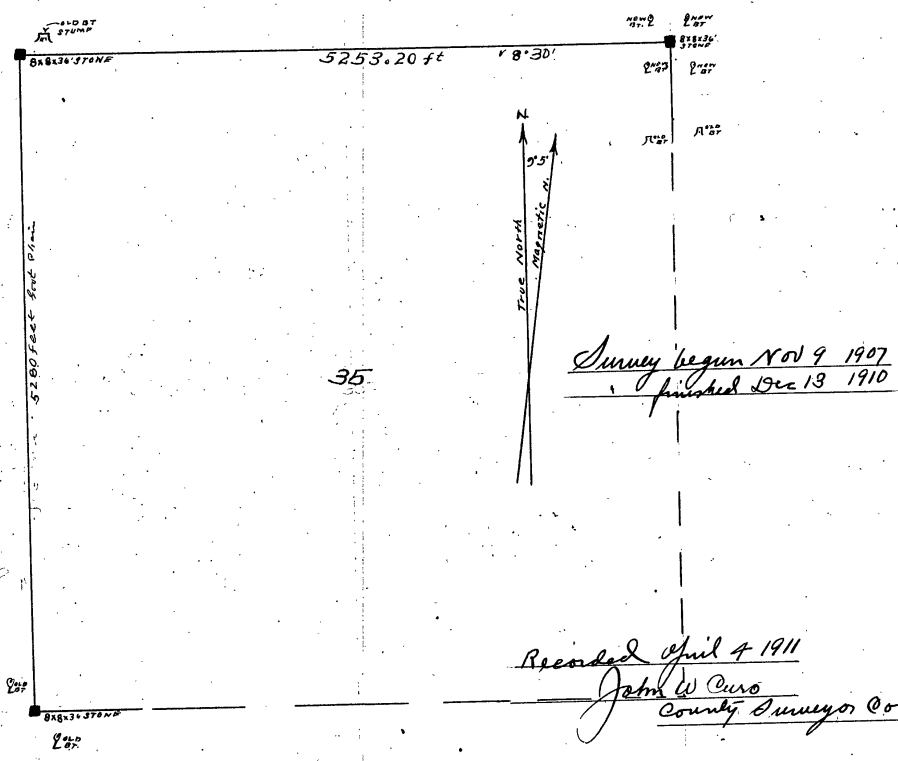
- NOTES -
Sec. Cont'd To Page This Book
35 " " 473

A

PLAT OF

Sec 35 T.134N. R.31W. 5.B.M.
Scale 1" = 875'

SURVEY RECORD No 14



-PLAT-

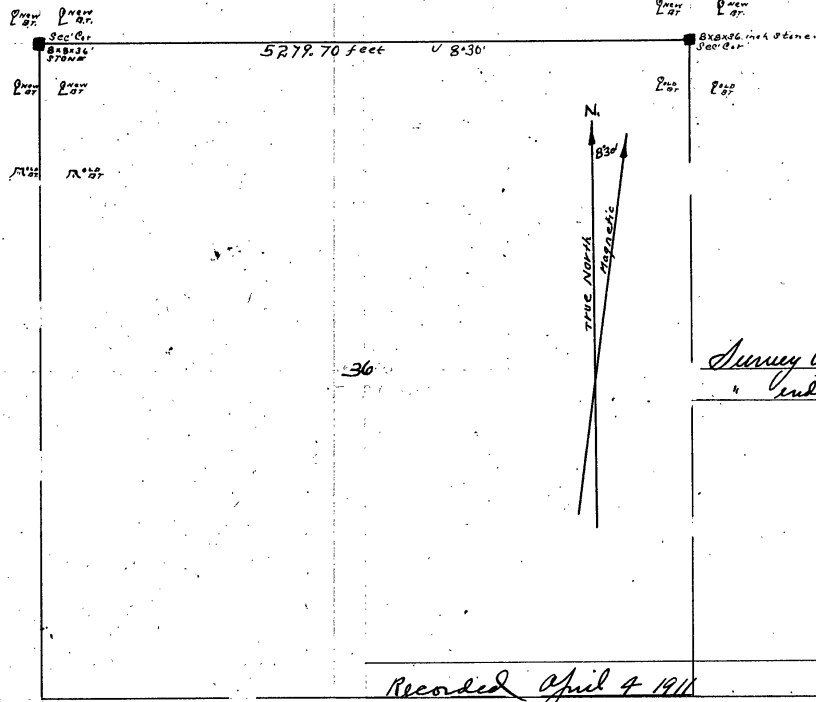
Sec Cont'd To Page This Road	35	"	475	"	"
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A
PLAT OF

SEC. 36 T. 134 N. R. 31 W. 5 P. M.

Scale 1" = 175'

SURVEY RECORD No 15



Survey begun Nov 15 1907
ended Dec 13 1910

Recorded April 4 1911

John W. Cress
Co Surveyor Cor & Minn

PLAT	
See Cont'd Page of Book	
36	"

A

Field Notes of the Survey of Section No. 36, Township No. 134 N. Range 31 W, 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

Nov. 15th, 1907, Jas. E. Rearick, Geo. Green & Ed. Newkirk axmen and chimen. I use the following instruments: A Keuffel & Esser transit in perfect adjustment and a 100 foot Chicago steel tape.

At the NW Corner of Sec. 36, 134-31 Govt. notes call for a post and the following bearing trees: Pine 4 N 87 1/2° E, 313 links, N. Pine 8, S 2° W, 510 links, N. Pine 10, S 27 3/4° E, 500 links. We find the SE and SW old Govt. bearing trees plainly marked from which we set the true corner beaing a post and the following new bearing trees: Jack Pine 1 N 45° 45' E 50.45 ft. Norway Pine 12, N 22° 30' W 21.15 ft. Jack Pine 10S-73° 20' E 29.30 ft. Norway Pine 8, S49° 39' W, 19.10 ft. to face of spots Var 8° 30'.

Nov. 16th, 1907, Same crew and instruments: Beginning at the true NW Corner of 36, just established, we run east on 8° 35' Variation at 535.60 set hub: at 1323.30 hub temporary 1/16 at 1498.80 hub, at 2235.30 hub, at 2646.60 hub. The 1/4 cor. seems to be gone: We found 1. NP stump marked "BT" facing N, but as the field notes call for 2. oak I write to Washington and St. Paul, and the surveyors General say I have to ignore this "pine" as the field notes call for "Oak."

Dec. 27th, 1907, same crew and instruments. Beginning at hub 2646.60 near 1/4 on N side of 36-134-31 we continue our line East: at 5293.20 the true NE Cor. of 36, stands N 45° 10' W 19.20 ft or 13.60 W. and 13.50 N making the length of the North boundry 5293.30 ft Govt. chain equals 5279.70 feet my chain.

At the NE Cor. of 36-134-31 Govt. notes call for a post and the following bearing trees: Pine 18, N 10° W 69 links. Pine 16, N 2° E, 64 links. Pine 20, S 65° W, 44 links, Pine 10, S 30° E 16 links.

We find the SE & SW, old bearing trees from which we establish the true corner and drive a post with new bearing trees as follows: N. Pine 8, N 44° 31' W, 41.60 ft. J. Pine 10, N 74° 50' E. 34.25 ft. to tack heads, at 9° Var.

Dec. 13th, 1910, Harry S. Todd transitman, Ed. Newkirk and Arthur Henwood chairmen, pull up the wood stakes at the NW cor of 36, and at the NE cor. of 36, T 134, R 31, and put in each place a stone monument 8x8x36 inches in size, set in a bed of cement and sand.

The names of resident witnesses are as follows: Ed. Newkirk, Arthur Henwood, Jas E. Rearick and George Green.

Recorded Apr 4 1911

John W Curo
County Surveyor Cass Co., Minn.

NOTES
Sec Cont'd To Page 46 Book
36

Field Notes of the survey of Section No. 33, Township No. 134 N. Range No. 31 W. 5th Principal Meridian as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

Nov. 9th, 1907, Ed. Newkirk axman and chainman: George Green, axman and chainman: I use the following instruments: A Keuffel and Esser transit in perfect adjustment, and a 100 foot Chicago steel tape.

At the $\frac{1}{4}$ corner on the South side of Section 34, T 134 N. R. 31 W. the notes of the original Govt. survey call for a post and the following bearing trees: Pine S N 29° W 25 links: Pine S S 5° W 24 links.

We find both bearing trees plainly marked from which we set the true corner by flat measurement from the face of the trees after which they stand perfect for course and measurement.

I set post for true $\frac{1}{4}$ cor. and set new bearing trees as follows: N Pine 4 S 31° 30' E. 32 feet J. Pine 4 N 44° E, 26.50 ft. J. Pine 4 N 63° E, 16.30 ft.

Nov. 10th, 1907, Beginning at the true $\frac{1}{4}$ cor. on South side of Section 34, T 134, R 31, We run N 89° 45' W, magnetic variation 8° 30'

At 350. ft enter marsh: at 450 leave same: at 575 enter meadow: at 663 cross creek, bears SE: at 1775, leave meadow: at 2640 ft set hub for temporary SE Cor. of Sec. 33. Govt. bearing trees are gone and we continue our straight line: at 5280 ft. set hub for temporary $\frac{1}{4}$ corner, find no Govt. bearing trees and continue our line: At 7920 ft. set hub for temporary SW Cor. of Sec. 33, old govt. bearing trees are gone.

Nov. 11th, 1907, Ran Harris axman, Newkirk and Green still chaining: We continue our line: at 10560 set hub: at 13200 set tack in plank culvert.

Nov. 12th, 1907, continue our line: at 15840 set temporary $\frac{1}{3}$ cor.: at 20974.80 set temporary twp. corner. The true SW corner of Twp. 134, R 31, bears S 67° 50' W 56 ft. or 21 ft. S. & 52 ft West.

Nov. 13th, 1907, we re-chain the whole distance and find it correct.

Nov. 14th, 1907, correcting corners: at hub 2640 we chain S 67° 50' W 7.05 ft. where we place a hub for the true SE cor. of Sec. 33, with bearing as follows: Poplar stump 6, N 51° 30' W 42.50 ft. highest peak of big 3 foot rock, bears S 21° 45' E, 17.30 ft.

At hub 7920 we chain S 67° 50' W, 21.15 ft. where we place a stake for the true SW corner of Sec. 33, with bearing trees as follows: Poplar 4, S 9° 23' E 33.90 ft. Poplar 2, N 10° 10' E. 6.80 feet.

May 23rd, 1910, Ed Newkirk and Geo. Brown chainmen. We pull up the wood stakes at the SE cor. of Sec. 33, and at the SW Cor. of Sec. 33, T. 134, R. 31, and put in each place a stone monument 8x3x36 inches in size, set in a bed of cement, at the true SE and SW corners of Sec. 33 of above town and range.

The names of resident witnesses are: Ed. Newkirk, Geo. Green and George Brown.

Recorded April 4 1911

John W Curo
County Surveyor Cass Co., Minn.

-NOTES-
Sec. Cont'd to Page This Book
93 " " 973 " "

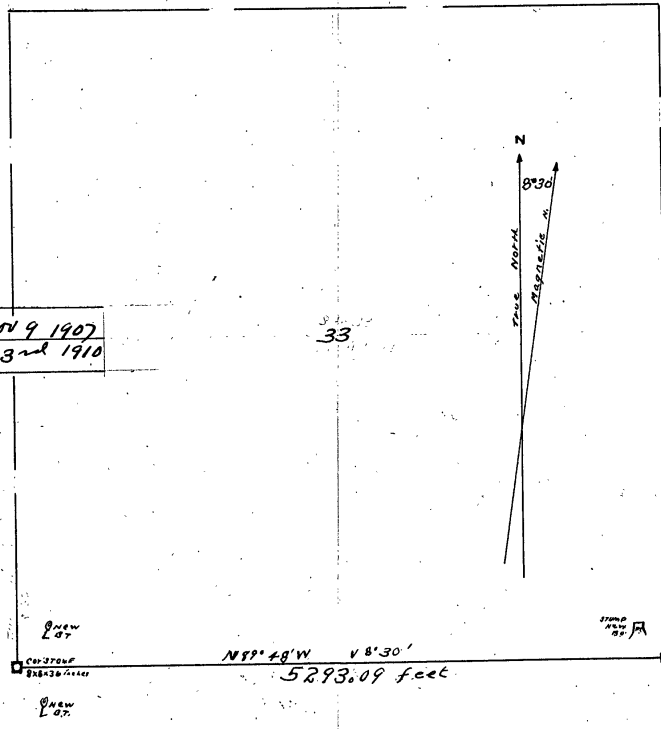
PLAT OF

Sec. 33 T. 134 N., R. 31 W., 5 P.M.
Scale 6" = one mile

SURVEY RECORD No 17

Survey begun Nov 9 1907
" ended May 3rd 1910

33



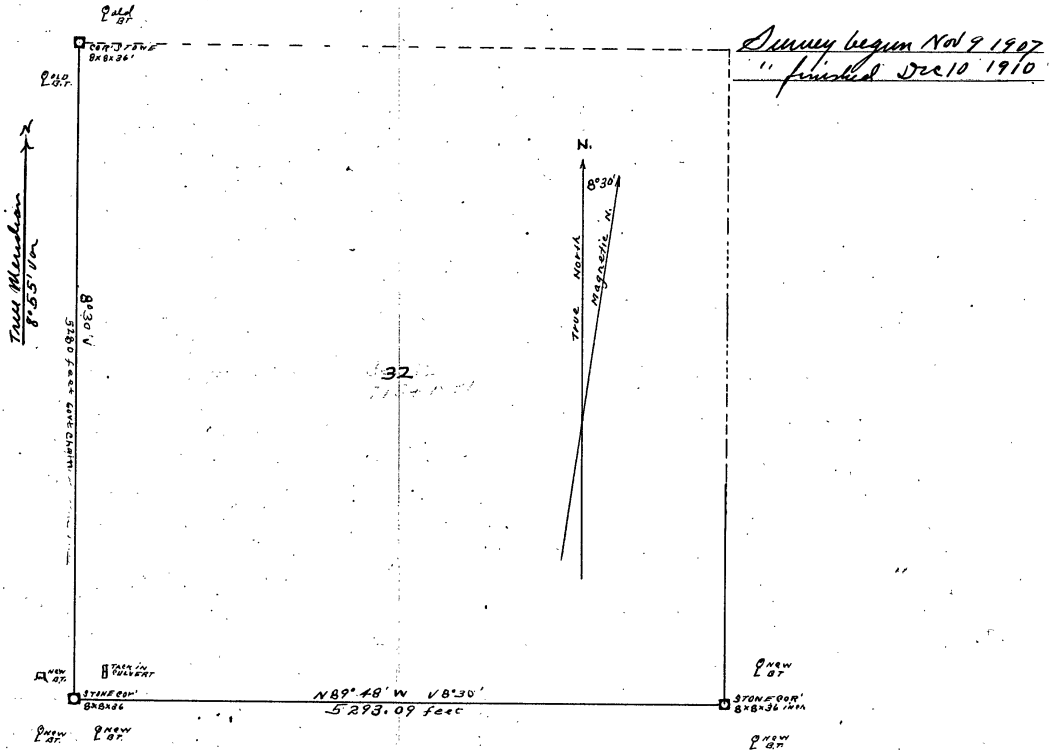
Recorded April 4 1911
John W. P. Co.
County Surveyor

PLAT
Sec. Cont'd To Page This Book
33 " 425 "

A
PLAT OF

SEC. 32, T. 134 N., R. 31 W., 5th PM.
Scale 6" = one mile

SURVEY RECORD No 18.



Recorded April 7 1911
 John W Curo Co Surveyors
 Cass Co Minn

Field Notes of the survey of Section No. 32, Township No. 143 N. Range No. 31 W. 5th Principal Meridian as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

Nov. 9th, 1907, Ed. Newkirk Axman and chairman, and George Green axman and chairman. I use the following instruments: A Keuffel and Esser Engineers' transit in perfect adjustment and a Chicago steel tape.

Beginning at the true 1/4 corner of the South side of Sec. 34, (see plat and notes of 34 T. 134, R 31) run N 89° 45' W. Mag. Var. 8° 30' at 350 ft. enter marsh:

Nov. 10th, 1907. continue our line: at 450 leave marsh: at 575 enter meadow: at 663 cross creek bears SE at 1775 leave meadow: at 2640 ft. set hub. 5280 set hub: at 7920 ft. set hub for temporary SE cor. of Sec. 32.

Nov. 11th, 1907, Ren Harris exman, Newkirk and Green chainmen. We continue our line: at 10560 set hub: at 13200 tack in plank culvert for temporary SW cor. of Sec. 32.

Nov. 12th, 1907. Continue our line: at 15840. set hub at 20974.80 set temporary Twp cor. the true SW cor. of Twp. 134 R. 31, bears S 67° 50' W, 56 ft. or 21. ft S. and 52 ft West. The Govt. posts and bearing trees on the whole run are gone.

Nov. 13th, 1907. we re-chain the whole distance and find it correct.

Nov. 14th, 1907, correcting corners: at hub 7920. we chain S 67° 50' W. 21.15 ft where we place a stake for the true SE cor. of Sec. 32, with bearing trees as follows: Poplar 4 S 9° 23' E, 33.90 ft. Poplar 2, N 10° 10' E. 61.80 ft.

At tack in culvert, No. 13200, we chain S 67° 50' W, 35.24 feet where we place stake for the true SW cor. of Sec. 32, with new bearing trees as follows: Tack in culvert bears N 67° 50' E. 35.24 ft. Br. Oak 2 S 79° 45' E, 34 ft. Br. Oak 2, S 8° 25' W, 12.10 ft. Br. Oak stump 2 N 38° 20' W, 11.60 ft.

Going to the NW cor. of Sec. 32, we set the true corner by proportionate measurement from old Govt. bearing trees (see plat and notes of Section 30, T 134, R 31)

May 23rd, 1910. Ed Newkirk and Geo Brown, chainmen. at the SE cor. on the SW cor. of Sec. 32, we pull up the wood stakes and put in their place a stone monument 8x8x36 inches in size, set in a bed of cement on the true SE and SW corner of said section 32, Twp. 134 N. R 31 W.

Dec. 10th, 1910, Harry S. Todd, transitman, Ed. Newkirk, and Arthur Henwood, chainmen. Pull up the wood stake and set an 8x8x36 inch stone monument for the true NW cor. Sec. 32, T 134 R 31.

The name of resident witnesses are: Ed. Newkirk, Geo. Green and Geo. Brown.

Recorded *Jan 4 1911*

John W. Curo
County Surveyor, Cass Co., Minn.

Field Notes: of the survey of Section No. 31, Township 134 N. Range 31 W. 5th Principal Meridian, as surveyed by John W. Curo County Surveyor, of Cass County, Minnesota.

Nov. 10th, 1907. Ed. Newkirk axman and chairman. Geo. Green axman and chairman. I use the following instruments: A Käuffel and Esser Engineers' transit and a 100 foot Chicago steel tape.

Beginning at the true 1/4 corner on South side of Sec. 34, T 134, R 31 previously established by me, we run N 89° 45' W. Mag. Var. 8° 30' at 7920. ft. set hub.

Nov. 11th, 1907, Ren Harris Axman. Green and Newkirk still chaining. We continue our line: At 13200 set tack in plank culvert for temporary SE Cor. of Sec. 31.

Nov. 12th, 1907, continue our line At 15840 set hub at 20974.80 set temporary township corner: the true SW cor. of Twp 134, Rge. 31, bears S 67° 50' W 56 ft. or 21 ft south and 52 ft west.

All the Govt. posts and bearing trees on the whole run are gone. At the SW cor. of Twp 134 N. Range 31 W. Govt. notes call for a post and the following bearing trees: Pine 9 N 29 1/2° E, 164 links. Pine 10 S 85 3/4° E, 263 links. Pine 8 S 16 1/2° W, 157 links.

I find the SE bearing tree plainly marked and the NE tree dimly marked from which I set hub for the true twp. corner. Measurements and courses check out perfect.

Nov. 13th, 1907, we re-chain the wholeline and find it correct.

Nov. 14th, 1907. Correcting: At tack No. 13200 we chain S 67° 50' W, 35.24 ft. and set stake for true SE Cor. Sec. 31, 134-31, with new bearings as follows: Tack in culvert bears N 67° 50' E, 35.24 ft. Br. Oak 2, S 79° 45' E, 34 ft. Br. Oak, 2, S 8° 25' W 12.10 ft. Br. Oak stump 2, N 38° 20' 11.60 ft.

May 23rd, 1910. Ed Newkirk and Geo. Brown chairmen: We set a stone monument 8x8x36 inches in size, in a bed of cement at the true SE cor. of Sec. 31 of above town and range,

Dec. 9th, 1910. Harry S. Todd transitman, Ed. Newkirk and Arthur Henwood chairmen. Place a stone monument 8x8x36 inches in size in a bed of cement at the point established by me for the true SW cor. Sec 31, T 134, R. 31.

Dec. 10th, 1910. Same crew: Pull up the wood stake and set an 8x8x36 inch stone monument in a bed of cement at the point previously established by me for the true NE cor. Sec. 31, Twp. 134 Rge. 31.

The names of the Resident witnesses are: Ed. Newkirk, Geo. Green, Geo. Brown, Arthur Henwood,

Recd Filed Apr 4 1911

John W. Curo
County Surveyor, Cass Co., Minn.

Sec	Cont'd to Page of Book
31	" 588 " A"

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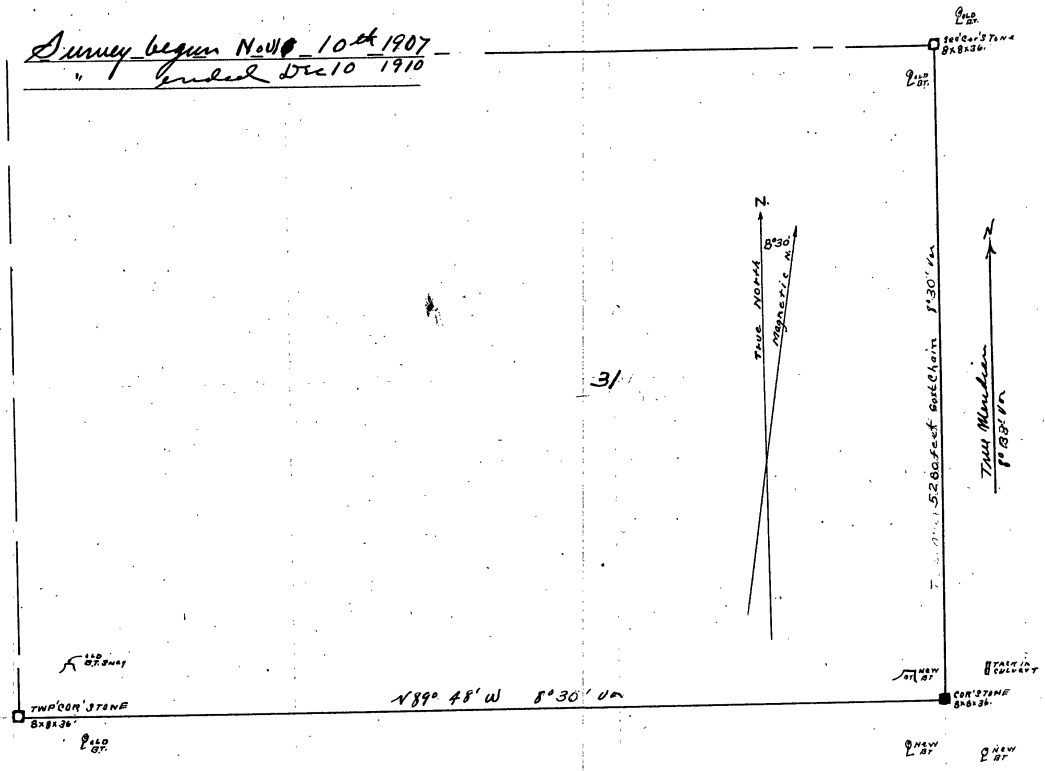
PLAT OF

SEC. 31, T. 134 N., R. 31 W., 5th P.M.

Scale: 1" = 875'

SURVEY RECORD No 19

Survey begun Nov 10th 1907
ended Dec 10 1910



Survey begun Nov 10 1907
ended Dec 10 1910

Recorded April 9 1911
John W. Carr
Co Surveyor Com Co Minn

See Conty to Page of Book
31 " " 588 " A"

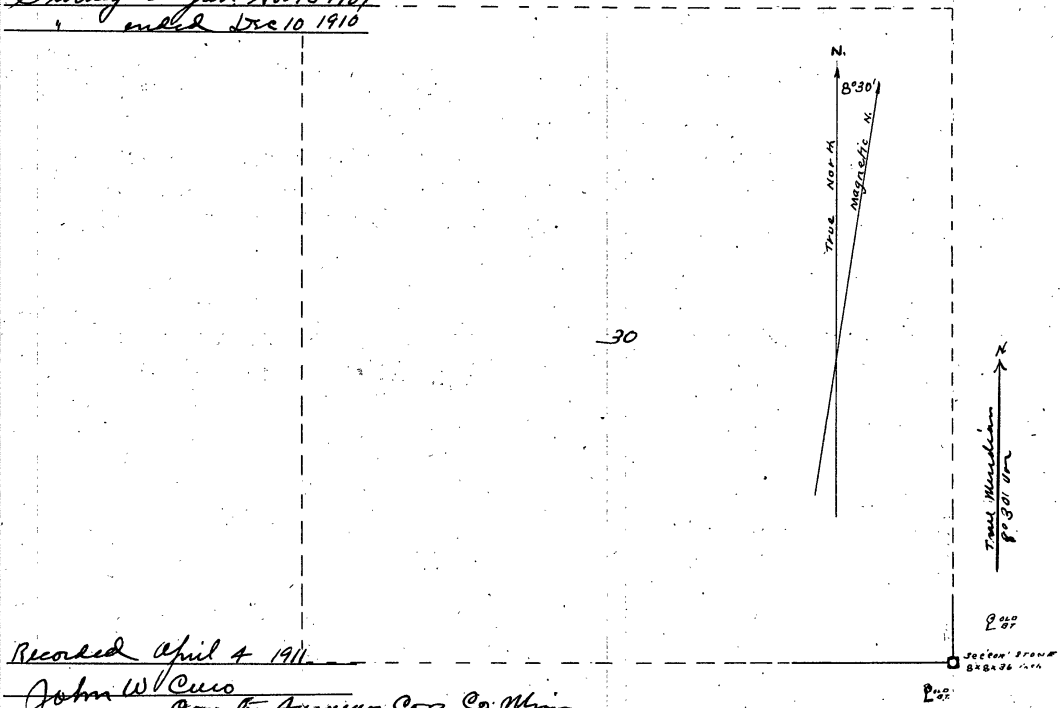
PLAT OF

SEC. 30, T. 134 N., R. 31 W. 5th P.M.

Scale 1" = 875'

SURVEY RECORD No 20

*Survey begun Nov 13 1907
ended Dec 10 1910*



Recorded April 4 1911

*John W. Cress
County Surveyor Cass Co. Minn.*

SURVEY RECORD No 20

Field Notes: Of the survey of Section No. 30, Township No. 134 N. Range No. 31 W. 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

Nov. 13th, 1907, Ed Newkirk axman and chairman, Geo. Green, axman and chairman, I use the following instruments: A Keuffel and Esser Engineers' transit No. 8951 in perfect adjustment and a 100 foot Chicago steel tape. We use a plumb bob to level the tape in measuring uneven ground.

At the Southeast corner of Sec. No. 30, being the corner to sections 29, 30, 31 and 32, Twp. 134, R 31, the notes of the original Govt. survey call for a post and the following bearing trees:

Balsam 16, S 30° E, 5 links distant. Elm 14, S 84° W, 22 links distant.
Elm 12, N 41° E 24 links distant. Aspen 22, N 32° W, 18 links distant.

We find the "Elm 14, S 84 W, 22 links" equals 14.52 feet.

"Elm 12, N 41 E, 24 links" equals 15.84 feet.

The Aspen and Balsam are gone.

With venier set at 8° 55' as an assumed meridian, I find the distance by way of the courses to be 37 feet, or 6.64 feet more than Govt. measurement, so by proportionate measurement I find 14.52 plus 3.18 equals 17.70 and 15.84 plus 3.45 ft. are 19.30 then both trees are in proper courses, measurements taken from face of "B.T." marks.

I drive a hub for the true corner, and with transit set over the same, a tall flag placed at the true section corner a mile south, reads 8° 55' Var. showing that my assumed meridian is correct.

Dec. 10th, 1910, Harry S. Todd, Deputy County Surveyor of Cass Co, Minn. transitman. Arthur Henwood and Ed Newkirk, chairmen. Keuffel and Esser Engineers' transit and a 200 foot Chicago steel tape. Pull up the hub previously placed by me for the true SE cor. of Sec. 31, of above township, and put in its place a stone monument 8x8x36 inches in size, set in a bed of concrete.

Following are the names of resident witnesses: Arthur Henwood, Ed Newkirk, Geo. Green.

Recorded April 4 1911

John W. Curo
County Surveyor, Cass Co., Minn.

A

Field Notes: of the survey of Section No. 29, Township No. 134 N. Range No. 31 W. 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

Nov. 13th, 1907, Ed. Newkirk, axman and chairman. Geo. Green axman and chairman. I use the following instruments: A Keuffel & Esser engineers' transit No. 8951 in perfect adjustment and a 100 foot Chicago steel tape. We use a plumb bob to level the tape in measuring uneven ground.

At the Southwest corner of Section No. 29, being the corner to Sections 29, 30, 31 and 32, T 134 R. 31, the notes of the original Govt. survey call for a post and the following bearing trees. Balsam 16, S 30° E. 5 links distant. Elm 14, S 84° W, 22 links distant. Elm 12, N 41° E, 24 links distant. Aspen 22, N 32° W, 18 links distant.

We find the "Elm 14, S 84° W, 22 links" equals 14.52 feet, "Elm 12, N 41° E, 24 links" equals 15.84 feet.

With the vernier set at 8° 55' as an assumed meridian I find the distance by way of the courses to be 37 feet or 6.64 ft. more than Govt. measurement, so by proportionate measurements I find 14.52 plus 3.18 equals 17.70 ft. and 15.84 plus 3.45 ft. are 19.30. then both trees are in proper courses, measurements taken from face of "B.T" marks.

I drive a hub for the true corner and with transit over the same, a tall flag placed at the true section corner a mile south reads "8° 55' Var" showing that my assumed meridian is correct.

Dec. 10th, 1910, Harry S. Todd, Deputy County Surveyor of Cass Co., Minn., transitman, Ed. Newkirk and Arthur Henwood, chainmen. Keuffel & Esser Engineers' transit and a 200 foot Chicago Steel tape.

Pull up the hub previously placed by me for the true SE cor. of Sec. 31 of above township and put in its place a stone monument 8x36 inches in size, set in a bed of concrete.

Following are the names of resident witnesses: Arthur Henwood, Ed. Newkirk, Geo. Green.

Recorded *Apr 4 1911*.

John W. Curo
County Surveyor Cass Co., Minn.

- NOTES -
Sec. Cont'd To Page of Book
29 " " " "

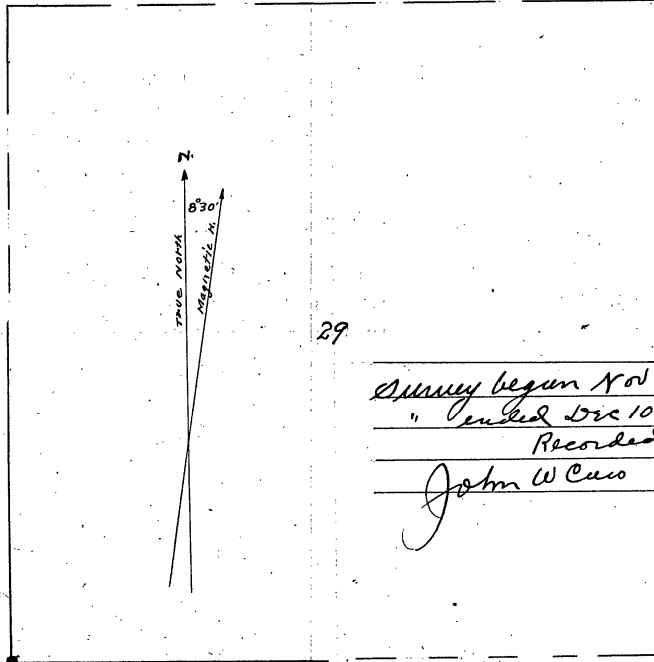
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PLAT OF

SEC. 29, T. 134 N., R. 31 W., 5th PM.

Scale 1" = 825'

SURVEY RECORD No 21



29

Survey begun Nov 13 1907
 " ended Dec 10 1910
 Recorded April 4 1911
 John W Cuss Co Surveyors Co Minn

1/2 x 1/2 STONE
See Cont.

- PLAT -
 See Cont'd to Page of Book
 29 " " "

A

PLAT OF

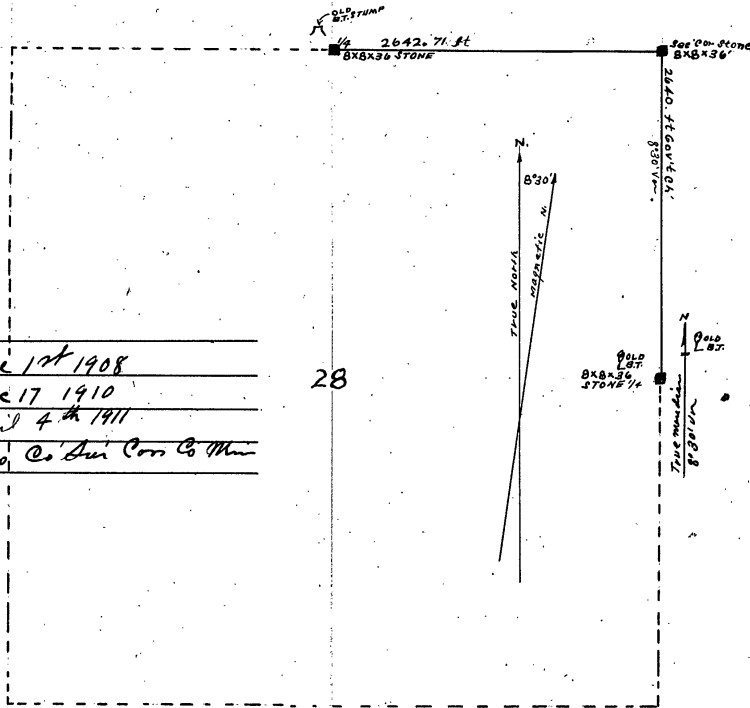
SEC. 28 T. 134 N. R. 31 W. 5th P.M.

SCALE 875 FT = 1"

SURVEY RECORD No 22.

Survey begun June 1st 1908
 Finished Dec 17 1910
 recorded April 4th 1911
 John W. Cunn Co. Sur. Com. Co. Minn.

28



- PLAT -
 Sec Cont'd in Misc. this Book
 28 " " 475 " "

A

Survey Record No. 22, Sec. No. 28, T. 134 N. R. No. 31, W. 5th, P. M.

Field Notes of the survey of Section No. 28, Township No. 134 N. Range No. 31 W. 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

Jan. 1st, 1908, Ed. Newkirk and James E. Rearick, chainmen. Geo. Green axman. I use the following instruments: A Keuffel & Esser Engineers' transit in perfect adjustment, and a 100 foot Chicago steel tape. Plumb bob line, double centre hubs.

Beginning at the true Southeast corner of Sec. 24, T 134, R 31, We run West on S⁸⁰ 50' Var: at 2040.00 set temporary 1/4 hub: at 5281.32 set hub temporary Sec. Cor.: at 7921.32 temporary 1/4 hub. No Govt. bearing trees found in the whole run.

Jan. 2nd, 1908. Same crew, continue our line: at 10561.32 hub for temporary section corner: 13209.25 set hub temporary 1/4 corner:

Jan. 3rd, 1908. Geo. Rogers, Ed. Newkirk, Geo. Green, Jas. E. Rearick. Continue our line: At 15857.16 feet set hub for temporary NE cor. of Sec. 28: at 18499.14 set hub for temporary 1/4 corner on the North side of Sec. 28. True 1/4 corner bears N 1° 46' W 169.70 ft. making the total distance 5.10 ft. too long.

At the 1/4 corner on N. side of 28. Govt. notes call for a post and the following bearing trees. Oak 18, N 51° W. 28 links. Oak 20, S 15° E. 22 links. We find the stump of the NW BT plainly marked, and the stump of the SE BT badly burned from which we set a hub for the true 1/4 corner.

Jan. 4 th, 1908. We re-chain the whole distance East and find no mistakes. Correcting. we set hub No. 15857.16, N 1° 46' W, 145.46 feet, which fixes its position for the true NE cor. of Sec. 28, as to East and West, but its position as to North and South will ave to be determined later.

Set bearing trees to our corrected hub as follows: Tack in heart of Poplar stump, 10, bears N 77° 15' W, 26.20 ft. Oak stump 10, S 51° 45' E. 47.70 ft. to tack in heart.

As 18499.14 ft. Govt. chain, equals 18504.24 ft. my chain, the length of the N. side of NE^{1/4} of Section 28, is 0.73 feet too long, or 2641.98 ft. Govt. chain equals 2642.71 ft. my chain.

Dec. 13th, 1910, Otto Klingbiel, Geo. Green. chaining, we pull up the wood Stake at the 1/4 on N. side of Sec. 28, and set a stone monument 8x8x36 inches in size in a bed of cement for the 1/4 corner.

Dec. 17th, 1910. Harry S. Todd assisting. From the old Govt. bearing trees, we set a stone monument 8x8x36 inches in size, in a bed of cement at the true 1/4 corner on the east side of Sec. 28, then run North to the NE Cor. of Sec. 9, and by proportionate measurement set a stone monument 8x8x36 inches in size in a bed of cement for the true NE cor. of Section 28, all in township above mentioned.

The names of resident witnesses are: Otto R. Klingbiel. Geo. Green. Ed. Newkirk.

Recorded *Apr 4 1911*

John W. Curo
County Surveyor Cass Co, Minn.

NOTES
Sec. Cont'd To Page 71's Book
28 " " 473 " "

Field Notes of the survey of Section 27, Township 134 N. Range 31 W. 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

Nov. 15th, 1907. Ed. Newkirk and James E. Rearick, chairmen. Geo. Green axman. I use the following instruments: A Keuffel & Esser transit in perfect adjustment and a 100 foot Chicago steel tape.

At the SE cor. of Sec. 27, T 134 R. 31, we set a hub for the true section corner from one old Govt. bearing tree which stands N 48° E 16.50 feet all others being gone and on

Dec. 13th, 1910, Harry S. Todd transitman. Arthur Herwood And Ed. Newkirk, chairmen, pull up the wood stake and place a stone monument 8x8x36 inches set in a bed of cement at the true SE cor. of Sec. 27, previously established by me.

Jan. 1st, 1908, Ed. Newkirk and J. E. Rearick, chairment. Geo. Green axman. Beginning at the true SE cor. of Sec. 24, we run west on 8° 50' Var. at 2640.66 set hub: at 5281.32 set hub: at 7921.32 set hub.

Jan. 2nd, 1908, Same crew continue: At 10561.32 set hub for temporary NE cor. of Sec. 27, at 13209.24 set hub for temporary 1/4 corner:

Jan. 3rd, 1908. Continuing. Geo. Rogers axman. Ed. Newkirk, Geo. Green. J. E. Rearick chairmen: At 15857.16 ft. set hub for temporary NW cor. of Sec. 27.: at 18499.14 ft. set hub for temporary 1/4 corner on N side of Sec. 28: true 1/4 corner stands N. 1° 46' W. 169.70 ft. making the total distance 3.10 ft. too long. No Govt. stakes or bearing trees could be found along the way, except at the SE cor. of Sec. 24, and at the 1/4 cor. on N. side of Sec. 28.

As 18499.14 ft. Govt. chain equals 18504.25 ft. my chain, the length of the north side of Sec. 27 is 1.46 ft. too long, or 5295.84 ft. Govt. chain. equals 5297.30 ft. my chain.

Jan. 4th, 1908. we re-chain the whole distance east, and find no mistakes. Correcting, we set hub No. 10561.32. N 1° 46' W. 96.88 ft. which fixes the NE cor. of Sec. 27 as to East and West and at the hub No. 15857.16 we chain N. 1° 46' W. 145.46 ft. which fixes its position for true NW Cor. of Sec. 27, as to East and West but the position of both corners as to North and South will have to be determined later.

Dec. 17th, 1910. Harry S. Todd assisting: From the old Govt. bearing trees, we set a stone monument 8x8x36 inches in size, in a bed of cement for the true 1/4 corner on the west side of Sec. 27, then ran North to the NE cor. of Sec. 9, and by proportionate measurements set a stone monument 8x8x36 inches in size, at the true NW cor. of Sec. 27.

Jan. 4th, 1908. Rearick and Newkirk chaining. Green, axman. Beginning at the true SE corner of Sec. 27, we run North 5280 ft. and set hub for temporary NE corner of Sec. 27.

Jan. 6th, 1908, continue north and at 10560. set hub for temporary NE cor. of Sec. 22. No Govt. marks can be found.

Jan. 7th 1908, we continue north and at 13200 set hub for temporary 1/4. True 1/4 post on the West side of Sec. 14, bears N 78° 33' W 151.30. Coming back to hub 5280 I chain N 78° 33' W. 60.52 ft which fixes the NE cor. of Sec. 27 as to North and South. From the first temporary corner we run South and from the second temporary corner we run East, and at the intersection I place the true NE corner of Section 27, with bearing trees as follows: Oak stump 8° N 51° 50' E, 32.93 ft. Red Oak 4, N 41° 51' W, 18.15 ft. to tack heads.

Dec. 14th, 1910, Todd, Green, Newkirk, Rearick, Klingbiel and I pull up the wood stake and place a stone monument 8x8x36 inches in size at the true NE Cor. of Section 27 above township and range.

Resident witnesses are as follows: Geo. Green, Ed. Newkirk, J. E. Rearick.

Recorded April 4 1911

John W. Curo
County Surveyor, Cass Co., Minn.

-NOTES-

Sec. Cont'd to Page 44 in Book
27 " " 473 " "

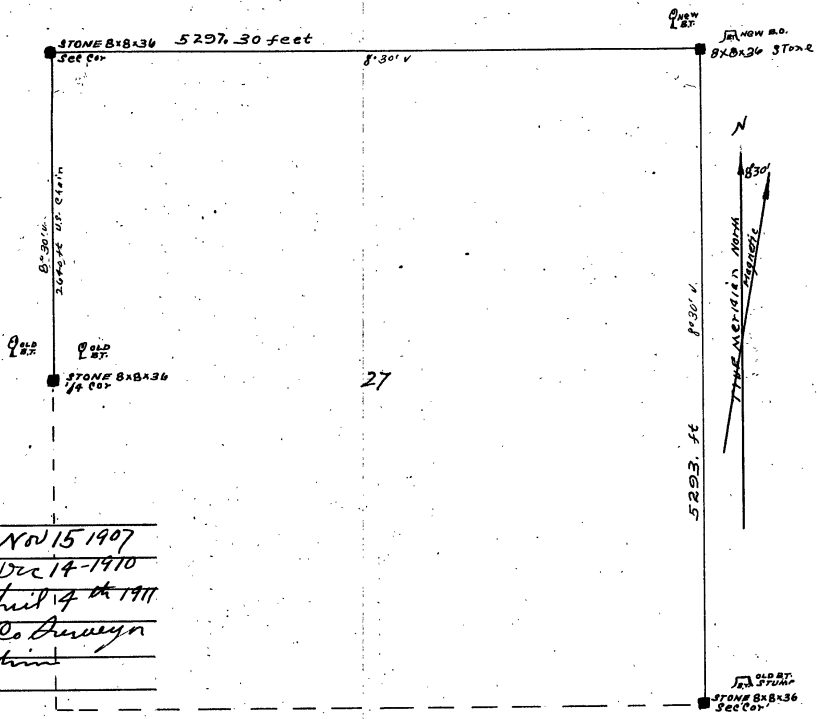
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PLAT OF

SEC. 27 T. 134 N. R. 31 W. 5th P.M.

Scale 900' = 1"

SURVEY RECORD No 23



Survey begun Nov 15 1907
 & ended Dec 14 1910
 Recorded April 4 1911
 John W. Curo Co Surveyor
 Cor. Co. Minn.

- PLAT -
 Sec Cont'd To Page This Book
 27 " 772 "

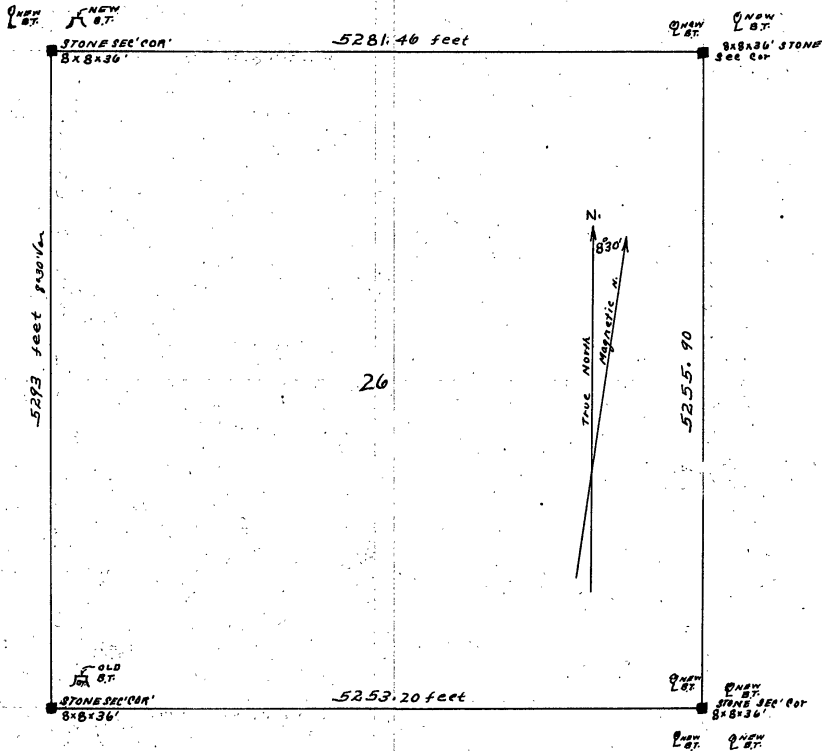
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PLAT OF

SEC. 26, T. 134 N., R. 31 W., 5th PM.

Scale 900' = 1"

SURVEY RECORD No. 24.



Survey begun Nov 15th 1907
 " ended Dec 13 1910
 Recorded April 4 1911
 John W. Cuss
 Co. Surveyors
 Minn.

OLD L. ST. NEW L. ST.

Survey Record No. 24, Sec. 26, T 134 N. R. 31 W 5th, P. M.

Field Notes: of the survey of Sec. 26, Twp. 134 N. Rge. 31 W, 5th P. M. as surveyed by John W. Curo, County Surveyor, Cass Co., Minn.

Nov. 35th, 1907, Ed. Newkirk and J. E. Rearick, chainmen. Geo. Green axman. K & E transit. 100 ft. Chicago Steel tape.

Set stake at true SW cor. Sec. 26, from one old Govt. bearing tree, standing N 48° E, 16.50 ft. all others being gone. Run East on 82° 30' Var. at 2646.60 ft. set temporary $\frac{1}{4}$ hub. Old Govt. bearings are gone: at 5293.20 set hub: True corner bears N 36° 30' W, 67.30 ft. or 40. ft. W, and 54 ft. North, making the length of south boundary of Sec. 26, only 5253.20 ft. my chain, set stake for the true SE cor. of Sec. 26, from two old Govt. bearing trees (see plat and notes of Sections 35 and 36) with new bearing trees as follows:

Jack Pine 8, N 45° 45' E, 50.45 ft. N. Pine 12, N 22° 30' W, 2115 ft.
 Jack Pine 10, S 73° 20' E, 29.30 ft. N. Pine 8, S 49° 30' W, 19.10 ft. Var. 8° 30'

Dec. 30th, 1907. Green and Rearick chainmen. Geo. & Steve Rogers, axmen. Beginning at true NW cor. Sec. 24, run South on 9° 30' Var: at 2640 temporary $\frac{1}{4}$ hub: at 5280 temporary NE Corner Sec. 26: at 7920 temporary $\frac{1}{4}$ hub all Govt, bearing trees are gone.

Dec. 31st, 1907. Newkirk and Green chainmen. Geo. and Steve Rogers axmen. At 10560 set hub: True SEW cor. Sec. 26, bears N 52° 55' W, 80.10 ft. Dist. short in 2 miles is 48.20 ft. making length of E side of 26 only 5255.90 ft. or 24.10 ft. short.

Jan. 1st, 1908, Newkirk, Green, Rearick, chainmen and axmen. Beginning at SE cor. Sec. 24, run W. on 8° 50' Var.: at 5281.32 ft. set hub temporary NE cor. Sec. 26: at 10561.32 ft. set hub temporary NW cor. Sec. 26.

Jan. 2nd, 1908. Newkirk, Rearick chainmen. Geo. Rogers and Green axmen. Continue West at 13209.24: set hub temporary $\frac{1}{4}$.

Jan. 3rd, 1908. Same crew. Continue: We find no Govt. bearing trees on the whole run, till we get to 18499.14 at which point we set hub for temporary $\frac{1}{4}$ cor. the true $\frac{1}{4}$ corner bears N 1° 46' W. 169.70 ft. showing the distance to be 5.10 ft. over length.

Jan. 4th, 1908. Newkirk, Green, Rearick, chainmen: Beginning at Sw corner Sec. 26, run North: at 5280 ft. set hub.

Jan. 6th, 1908, same crew. Continue North: At 10560. set hub. No Govt. marks found on whole run.

Jan. 7th, 1908. Same crew. Continue North (Var. 9° 20') and at 13200 ft. the true $\frac{1}{4}$ cor. between sections 14 and 15, bears N 78° 33' W, 151.30 ft.

Jan. 8th, 1908, Jas. E. Rearick and Ire-bhain all the measurements and set the NW cor. of Sec. 26, by proportionate measurements in all directions, and drive wood stake with new bearing trees as follows: Oak stump 8, N. 51° 50' E, 32.93 ft. Red Oak 4, N 41° 50' W. 18.15 ft. to tack heads at 9° Var.

We set the NE cor. of Sec. 26, the same way with new bearings as follows: J. Pine 8 N, 37° 44' W. 49.85 ft. J. Pine 8, N 43° 57' E, 60.50 ft. Poplar stump 10, S 43° W. 42.20 ft.

Dec. 13th, 1910, Harry S. Todd, Ed. Newkirk And Arthur Henwood set 8x8x36 inch stone in cement at the SE and SW corners of Sec. 26.

Dec. 14th, 1910. Todd, Green, Newkirk, Rearick, Otto Klingbiel, and I set 8x8x36 inch stone in cement at the true NW cor. and NE cor. of Sec. 26, of above Twp. and Range,

Resident witnesses are Geo Green., Ed. Newkirk, Jas. E. Rearick.

Recorded *April 4 1911*.

John W Curo
 County Surveyor, Cass Co., Minn.

Field Notes of the survey of Section 25, Township 134 N. Range 31 W. 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County, Minnesota.

I use a Keuffel and Esser transit and 100 ft. Chicago steel tape. Nov. 15th, 1907, Jas. E. Rearick, Geo. Green, Ed. Newkirk, axmen, and chainmen. At the SW cor. of Sec. 25, Govt. notes call for the following bearing trees: Pine 4, N 87 $\frac{1}{2}$ ° E. 313 lks. No. Pine 8, S 2° W, 510 lks. N. Pine 10, S 27 $\frac{3}{4}$ ° E, 500 lks.

We find the SE and SW old Govt. bearing trees plainly marked from which we set the true cor. being a post and the following new bearing trees: Jack Pine 8, N 45° 45' E, 50.45 ft.: N. Pine 12, N 22° 30' W, 21.15 ft.: Jack Pine 10, S 73° 20' E, 29.30 ft.: Norway Pine 8, S 49° 31' W, 19.10 ft. to face of spots, Var. 9° 30'.

Nov. 16th, 1907. Run east on 8° 55' Var. at 2646.60 ft. set hub. Govt bearing trees are gone.

Dec. 27th, 1907. Same crew and instruments, We continue our line: At 5293.20 ft. set hub for temporary sec. cor. the true SE cor. of Sec. 25, bears N 45° 10' Wm 19.20 ft. or 13.60 ft. West and 13.50 ft. North, making the length of the south side of Sec. 25, only 5279.70 ft. At this point Govt. notes call for Pine 18, N 10° W 69 lks. Pine 18, N 2° E. 64 links: Pine 20, S 65° W, 44 lks. Pine 10, S 30° E. 16 links. We find the SE and SW old bearing trees from which we establish the true SE cor. of Sec. 25, and set new bearing trees as follows: Nor. Pine 8, N 44° 31' W, 41.60 ft. Jack Pine 10, N 74° 50' E, 34.25 ft. to tack heads at 9° variation.

Beginning at the true SE cor. of Sec. 25, we run North on 8° 45' Var at 2640. set hub for temporary No. Govt. bearing trees.

Dec. 28th, 1907, continue North: At 3100 enter Lake; 3315 leave Lake. 3960 pin. 4820 hub. 5280 hub. true NE cor. of Sec. 25, stands North.

At the NE corner Sec. 25, Govt notes call for the following bearing trees: Pine 36, N 33° W, 26 lks. Pine 24 N, 54° E 31 lks. 20, S 53° W, 42 lks. Br. Oak 10, S 10° E, 21 lks.

We set a hub for the true corner from the stumps of the NE, SW and SE, bearing trees: the big root of the NW trees there plainly marked, but has been grubbed out of the road.

Dec. 30th, 1907, All of the Govt. quarter posts of 25, being gone and no Govt. marks at the NW corner, we begin at the true NE corner of Sec. 24, and run South on 9° 30' Var: at 5280 set hub for temporary NW cor. of Sec. 25, Govt. bearing trees are gone: at 7920 hub. No. Govt. trees:

Dec. 31st, 1907. Green and Newkirk chainmen. Geo. and Steve Rogers axmen, continue South: at 10560, set hub: true SW cor. Sec. 25, bears N 52° 55' W, 80.10. Correcting back we set hub No. 5280, N 52° 55' W, 40.05 ft. and set hub "A" temporary NW cor. sec. 25.

Jan. 1st, 2nd, and 3rd, 1908. Newkirk, Green, Rearick, chainmen. Geo. Rogers axman. Beginning at the SE cor. Sec. 24, we run west to the true $\frac{1}{2}$ cor. on the North side of Sec. 25, and find the distance 5.10 ft. longer than Govt. ch in and establish the true NW cor. of Sec 25, and put in new bearing trees as follows: Jack Pine 8, N 37° 44' W, 49.85 ft. Jack Pine 8, N 43° 57' E, 60.50 ft.: Poplar stump 10, S 43° W, 42.20 ft.

Dec. 13th, and 14th, 1910. Harry S. Todd, Arthur Herwood, Ed. Newkirk, J.W. E. Rearick, Otto Klingbiel and I pull up the wood stakes and place 8x8x36 inch stone monuments in a bed of cement at all four corners of Section 25, of above township.

Resident witnesses are: Geo. Green, Ed Newkirk, J. E. Rearick.

Recorded: April 4 1911

John W. Curo
County Surveyor, Cass Co., Minn.

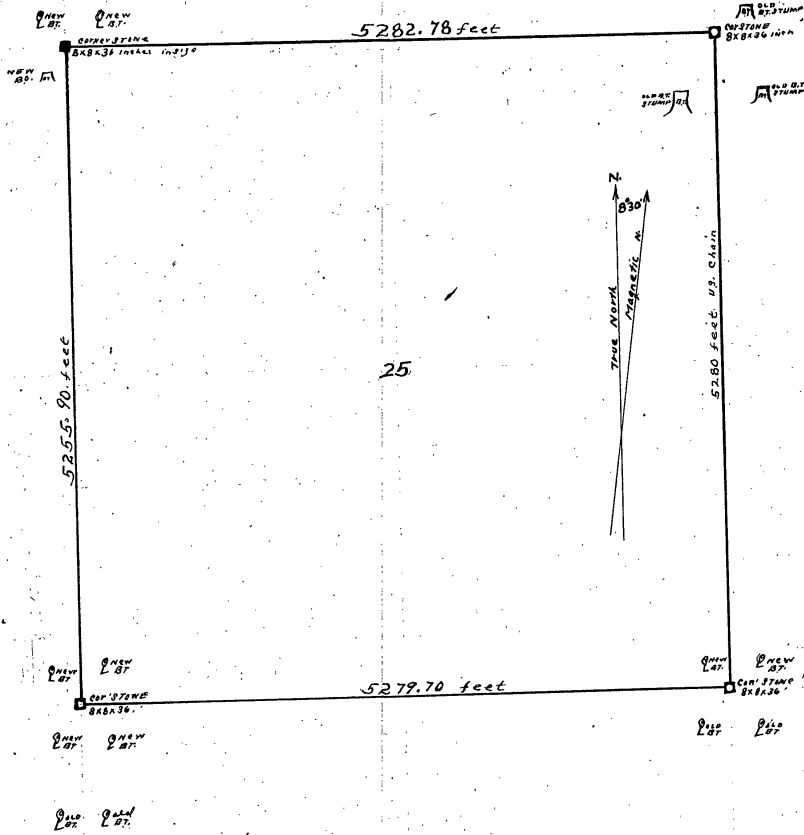
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PLAT OF

SEC. 25, T. 134 N., R. 31 W., 5th PM.

Scale 200' = 1"

SURVEY RECORD No 25



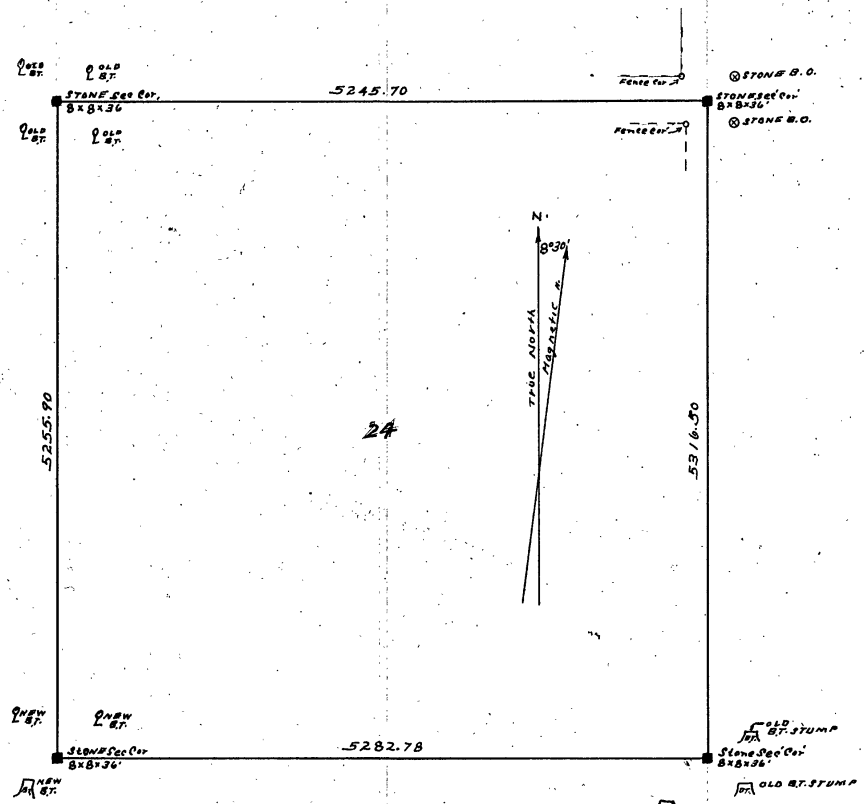
Survey begun Nov 16 1907
ended Dec 13 1910
Recorded April 4 1911
John W. Cress
Co. Surveyor Cass Co. Minn.

PLAT OF

SEC. 24, T. 134 N., R. 31 W., 5th P.M.

Scale 900' = 1"

SURVEY RECORD No. 26



Survey begun Dec 28-1907
 ended Jan 10 1910
 Recorded April 4 1911
 John W. Case Co. Surveyors & Planners

Survey Record No. 26. Sec. 24, T 134 n. R 31 W. 5th P. M.

Field Notes of the Survey of Sec. 24, T 134 N. Rge. 31 W. 5th P. M. As surveyed by John W. Curro, County Surveyor, Cass Co., Minn.

I use a K & E transit and 100 ft. Chicago steel tape.

Dec. 28th, 1907. Ed. Newkirk, Jas. E. Rearick, chainmen. Geo. Green axman. We set the true SE. Cor. of Sec. 24, from old Govt. bearing trees and drive hub, then set the NW Cor. from old Govt. bearing trees and drive a hub.

Dec. 30th, 1907. Green and Rearick, chainmen. Geo. and Steve Rogers axmen. Beginning at true NW Cor. sec. 24, run S 9° 30' Var. At 2640 temporary $\frac{1}{2}$ hub: at 5280 Temporary SW Cor. Sec. 24: 7920 temporary $\frac{1}{2}$ hub all Govt. bearings are gone.

Dec. 31st, 1907. Newkirk and Green chainmen. Geo and Steve Rogers, axmen. at 10560. hub: True SE Cor. Sec. 26, bears N 52° 55' W. 80.10 ft. distant short in 2 miles, is 48.20 ft., making the length of the W side of Sec. 24, only 5255.90 ft. or 24.10 ft. short.

Jan 1st, 1908. Newkirk, Green, Rearick, axmen. and chainmen. Beginning at SE corner Sec. 24, run West on 8° 50' Var.: at 5281.32 ft. set hub temporary SW Cor. Sec. 24.: at 10561.32 hub.

Jan. 2nd, 1908. Newkirk and Rearick chainmen. Geo. Rogers and Geo. Green axmen. Continue West: at 13209.24 ft. set hub.

Jan 3rd, 1908, same crew continued: We find no Govt. marks on the whole run until we get to 18499.14 ft. at which point for temporary corner and the true $\frac{1}{2}$ corner bears N 1° 46' W. 169.70 ft. showing the distance to be 5.10 ft. over length.

Jan. 8th, 1908. Rearick and I re-chained all the measurements and set the SW cor. of Sec. 24, by proportional measurements in all directions and drove a wood stake with new bearings as follows: Jack Pine S, N 37° 44' W, 49.85 ft. J. Pine S, N 43° 57' E. 60.50 ft. Pop. stump 10, S 43° W, 42.50 ft.

Jan. 9th, 1908. Orlander Rogers drives to Pillager to get Mr. Ruben Rearick who positiveky identified a stone set on top of a deep driven stake at the true NE corner of Sec. 24, with bearing as follows:

Mr. Ruben Rearick swears that the stone he shows me is the true corner set by Mr. Whiely former County Surveyor and that one fence corner is South Westerly, 41.20 ft. and 38.70 ft. North Westerly to another fence corner. and 34.30 ft southwesterly to the heart of a certain pine stump (the only stump near) the measurements taken today check out perfect.

Dec. 14th, 1910. Harry S. Todd, Newkirk, Rearick, Otto Klingbiel, Geo. Green and I pull up stakes and stones and place stone monuments 8x8x36 inches in size, in a bed of cement at all four corners of Sec. 24. Old man Rearick's stone monument at the NE cor. of Sec. 24, was mighty hard to get out, but good liberal dose of dynamite soon made room for the new corner stone.

Resident witnesses are: Geo. Green, Ed Newkirk, J. E. Rearick, and Ruben Rearick. Jan. 10th, 1908. J. E. Rearick and I chain the east side of Sec. 24, and find it 5316.50 ft and the North side we find 524570. ft.

Recorded Apr 1911

John W. Curro
County Surveyor, Cass Co., Minn.

Field Notes of the survey of Sec. 23, Twp. 134 N. Rge. 31 W. 5th P. M. as surveyed by John W. Curo, County Surveyor of Cass County, Minn.

I use a K & E transit and 100 ft. steel tape. Dec. 30th, 1907. Geo. Green and Jas. E. Rearick chainmen. Steve and Geo. Rogers axmen. At the NE cor. Sec. 23, I establish the true corner from old Govt. bearing trees and drive stake, then run South on $9^{\circ} 30'$ Var: at 2640 hub. at 5280, hub at 7920, hub all Govt. bearing trees are gone.

Dec. 31st, 1907. Ed. Newkirk and Geo. Green chainmen. Steve and Geo. Rogers axmen. Continue our line at 10560 set hub: True SE Cor. Sec. 26, bears N $52^{\circ} 55'$ W. 80.10 ft. making length of E. side of sec. 23; only 5255.90 ft.

Jan. 1st, 1908. Newkirk, Rearick, Green, chainmen. Beginning at Se corner Sec. 24, run West $8^{\circ} 50'$ var: at 5281.32 ft. set hub. at 10561.32 ft. set hub.

Jan. 2nd, 1908. Newkirk, Rearick chainmen. Geo. Rogers and Geo. Green axmen. Continue at 13209.24 hub.

Jan. 3rd, 1908. Same crew: at 15857.16 ft. set hub. No Govt. marks on the whole run: At 18499.14 set hub true $\frac{1}{4}$ cor. bears N $1^{\circ} 46'$ W. 169.70 ft. showing the distance to be 5.10 ft. over length.

Jan. 4th, 1908. Newkirk, Green, Rearick axmen and chainmen. Beginning at SW corner Sec. 26, run North: At 5280 ft. set hub.

Jan. 6th, 1908. Same crew Continue: at 10560. hub. No Govt. marks found on whole run:
Jan. 7th, 1908, Same crew continue: North Var. $92^{\circ} 20'$ at 13200 ft. the true $\frac{1}{4}$ cor. bears N $78^{\circ} 33'$ W. 151.30 ft.

Jan. 7th, 1908, continued. Beginning at NE corner e. 23, run West $8^{\circ} 20'$ Var at 2652.54 set hub and quit for the night.

Jan. 8th, 1908. Rearick and I re-chain all the measurements and set the SW Cor. Sec. 23, by proportionate measurements in all directions, drove wood stake with new bearings as follows: Oak stump 8, N $51^{\circ} 50'$ E. 32.93 ft. Red Oak 4, N $41^{\circ} 50'$ W, 18.15 ft. to tack head at 9° Var. We set the SE Cor. of Sec. 23; the same way with new bearings as follows: J. Pine 8, N $37^{\circ} 44'$ W. 49.85 ft. J. Pine 8, N $43^{\circ} 57'$ E, 60.50 ft. Pop stump 10, S 43° W, 43.20 ft.

Jan. 13th, 1908. Rearick, Newkirk and Green continue west: at 5305.08 temporary NW Cor. to sec. 23, drive hub at 10569.24 ft. hub:

Jan. 14th, 1908. Same crew continue: at 17178.15 feet set hub.

Jan. 15th, 1908. Same crew continue: At 21145.08 set temporary Seb. cor. True NW cor. of Sec. 20, bears N $60^{\circ} 53'$ W. 114. ft. this will make the total distance 99.60 ft. over length. N. Side Sec. 23 is 5305.08 plus 24.99 equals 5330.07.

Jan. 17th, 1908. Ed. Newkirk and I locate the true NW cor. Sec. 23, by proportionate measurements in all directions, drive stake with new bearings as follows: J. Pine 6, N $36^{\circ} 8'$ E, 35 ft. Jack pine 4, S $61^{\circ} 148'$ W. 6.15 ft. N. Pine 8, S $38^{\circ} 17'$ E. 7.80 ft.

Dec. 14th, 1910. Harry S. Todd, Green, Newkirk, Rearick, Otto Klingbiel and I set 8x8x36 inch stone in cement at the true SE and SW and NE corners of Sec. 23.

Dec. 15th, 1910. we set a stone 8x8x36 inches in size, in a bed of cement, at the true NW cor. of Sec. 23.

Resident witnesses are Geo Green, J. E. Rearick Ed. Newkirk.

Recorded *Jan 9 1911*

John W. Curo
County Surveyor, Cass Co., Minn.

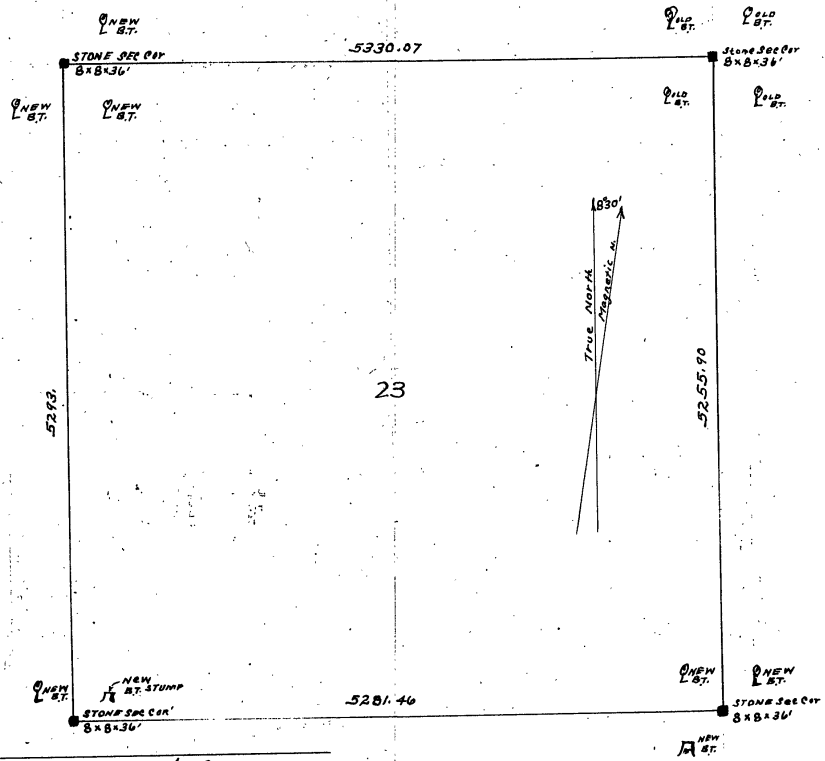
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PLAT OF

SEC. 23, T. 134 N., R. 31 W., 5th P.M.

SURVEY RECORD No 27

Scale 200' = 1"



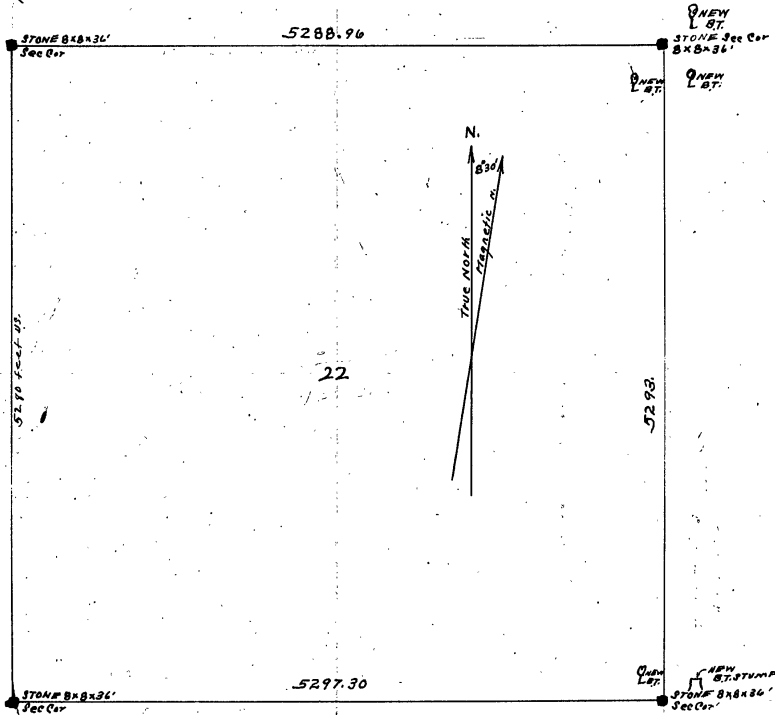
Survey begun Dec 31st 1907
 " ended " 15 1910
 Recorded April 4th 1911
 John W. Cullis
 Co. Surveyors, Corrs. & Mtr.

FLAT OF

Sec. 22, T. 134 N., R. 31 W., 5th P.M.

Scale 300' = 1"

SURVEY RECORD No 28



Survey begun Jan 1st 1908
 " finished Dec 17, 1910
 Recorded April 4 1911
 John W. Cress
 Co. Surveyor Cor. Co. Minn.

Survey Record No. 28, Sec. 22, T 134 N.R. 31 W, 5th P. M.

Field Notes of the survey of Sec. 22; Twp. 134 N. Rge. 31 W; 5th P. M. as surveyed by John W. Curo, County Surveyor, Cass Co, Minn.

Jan. 1st, 1908: I use a K & E transit, and 100ft. steel tape. Jas. E. Rearick and Ed. Newkirk, chainmen. Geo. Green, axman. All the Govt. corners on Sec. 22, are gone so we run them in.

Beginning at SE Cor. Sec. 24, run West $8^{\circ} 50'$ Var: at 10561.32 ft. set hub. Jan. 2nd, 1908 Newkirk and Rearick chainmen. Geo. Rogers and Geo. Green axmen at 13209.24 hub.

Jan. 3rd, 1908, same crew: at 15857.16 ft. set hub. No Govt. marks on the whole run: at 18499.14 true $\frac{1}{4}$ cor. bears $N 1^{\circ} 46' W$. 169.70 ft. showing the total distance to be 5.10 ft over length, making the south side of Sec. 22, a total of 5297.30 ft.

Jan. 4th, 1908. Newkirk, Green, Rearick axmen and chainmen: Beginning at SW cor. Se. 26, run North: at 5280 set hub.

Jan. 6th, 1908, same crew: At 10560, hub. No Govt. marks found on whole run: Jan. 7th 1908. Same crew. Continue N Var. $9^{\circ} 20'$: at 13200. true $\frac{1}{4}$ cor. bears $N 78^{\circ} 33' W$. 151.30 ft.

Beginning at NE cor. Sec. 23, run west $8^{\circ} 20'$ Var: at 3972.54 set hub. and quit for the night.

Jan. 8th, 1908. Rearick and I re-chain all the measurements and set a stake for the true SE corner of Sec. 22, with new bearings as follows: Oak stump 8, $N 51^{\circ} 50' E$. 32.93 ft. Red Oak 4, $N 41^{\circ} 50' W$. 18.15 ft. to tack heads at 9° Var.

Jan. 13th, 1908. Rearick, Newkirk, Green, Beginning at hub 3972.54 continue West and at 5305.08 set hub temporary NE cor. Sec. 22: at 10569.24 ft. set hub for temporary NW Cor. of Sec. 22:

Jan. 14th, 1908. Same crew: Continue at 17178.15 set hub:

Jan. 15th, 1908. Same Crew: Continue: No Govt. marks are found on the whole run until we get to 21145.08 ft. at which point we drive a hub for temporary sec. cor. True NW cor. Sec. 20, bears $N 60^{\circ} 53' W$. 114. This will make the total distance 99.60 ft over length. North side of Sec. 22 is 5264.16 plus 24.80 ft. equals 5288.96 feet.

Jan. 17th, 1908. Newkirk and I locate the true NE corner of Sec. 22, by proportionate measurements in all directions and set stake and bearings as follows: J. Pine 6, $N 36^{\circ} 8' E$. 6.35 ft. J. Pine 4, $S 61^{\circ} 14' W$. 6.15 ft. N. Pine 8, $S 38^{\circ} 17' E$ 7.80 ft.

Dec. 14th, 1910. Harry S. Todd, Geo. Green, and I, set a stone 8x8x36 inches in a bed of cement for the true SE cor. Sec. 22, and on

Dec. 15th, 1910. Rearick, Green and I and Otto Klingbiel, set an 8x8x36 inch stone in cement for the true NE Cor. of Sec. 22.

Dec. 17th, 1910. Harry SW Todd, Rearick, Green Klingbiel, and I chain from the true $\frac{1}{4}$ post on the West side of Sec. 27, North to the true NW corner SEC. 10, and by proportionate measurement in all directions we establish the true NW corner and SW corner of Sec. 22 at which points we set a stone monument 8x8x36 inches in size in a bed of cement. Resident witnesses are: Geo. Green, J. E. Rearick, Otto Klingbiel.

Recorded *Apr 7 1911*

John W. Curo
County Surveyor, Cass Co., Minn

Field Notes of the survey of Sec. 21, Twp. 134 N. Rge. 31 W. 5th P. M. as surveyed by John W. Curo, County Surveyor of Cass Co., Minn.

Jan. 1st, 1908. I use a K and E transit, and 100 ft. steel tape. Jas. E. Rearick and Ed. Newkirk, chainmen, and Geo. Green axman. The Govt. corners on the east side of Sec. 21 are gone, so we begin at SE cor. Sec. 24, and run west on $8^{\circ} 50'$ Var: at 10561.32 set hub.

Jan. 2nd, 1908. Newkirk and Rearick and Rearick, chaining: Geo. Rogers and Geo. Green axmen: Continue at 13209.24 hub.

Jan. 3rd, 1908. Same crew: Continue: at 15857.15 ft. set hub. No Govt. marks on the whole run: At 18499.14 true $\frac{1}{4}$ cor. on the Southside of Sec. 21 bears $N 1^{\circ} 46' W$. 169.70 ft. showing the total distance to be 5.10 ft. over length, making the south side of the SE quarter of Sec. 21, a total of 2642.71 ft. my chain of 0.73 ft. too long.

At the $\frac{1}{4}$ corner on the South side of Sec. 21, Govt. notes call for: Oak 18, $N 51^{\circ} W$. 28 lks. Oak 20, $S 15^{\circ} E$, 22 links.

We find the stump on the NW BT plainly marked, and the stump of the SE BT badly burned from which we set a hub for the true $\frac{1}{4}$ corner.

Jan. 4th, 1908. We re-chain the whole distance and find it correct.

Jan. 7th, 1908. Newkirk, Green and Rearick, axmen and chainmen. Beginning at NE cor. Sec. 23, run West on $8^{\circ} 20'$ Var: at 3972.54 ft. set hub. and quit for the night.

Jan. 13th, 1908. Same crew we begin at hub 3972.54 and continue West: and at 10569.24 set hub for temporary NE cor. Sec. 21.

Jan. 14th, 1908. Continue: at 17178.15 set hub.

Jan. 15th, 1908, Continue: No Govt. marks can be found on the whole run until we get to 21145.08 ft. at which point we drive a hub for temporary sec. cor. True NW cor. Sec. 20, bears $N 60^{\circ} 53' W$. 114. ft. this will make the total distance 99.60 ft. over length. Northside of Sec. 21 is 5286.60 plus 24.90 equals 5311.50 ft. my chain.

Dec. 17th, 1910. Harry S. Todd, Rearick, Green, Klingbiel and I chain from the true $\frac{1}{4}$ post on the West side of Sec. 27, North to the true NW Cor. Sec. 10, and by proportionate measurements, in all directions we establish the true NE cor. and SE cor. of Sec. 21, at which point we set a stone monument, 8x8x36 inches in size in a bed of cement.

The names of resident witnesses are: Otto Klingbiel, Jas. E. Rearick, Geo. Green.

Recorded: Apr 4 1911

John W. Curo
County Surveyor, Cass Co., Minn.

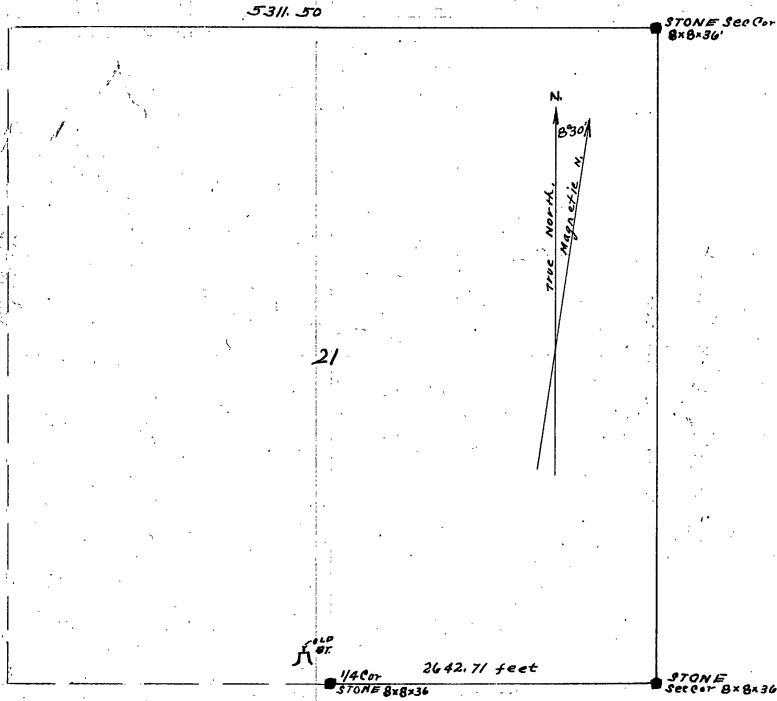
A

PLAT OF

SEC. 21 T. 134 N., R. 31 W., 5th P.M.

Scale 900' = 1"

SURVEY RECORD No 29



Survey begun Jan 1st 1908

ended Dec 17 1910

Recorded April 4th 1911

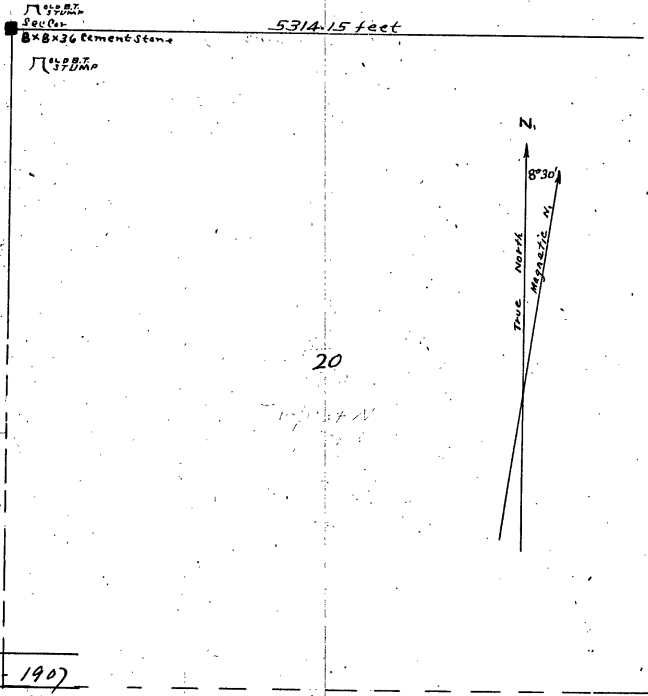
John W. Curo
County Surveyor Co. Va.

A

PLAT OF

SEC. 20, T. 134 N., R. 31 W., 5th PM.

Scale 900 ft = 1" **SURVEY RECORD No 30**



Survey begun Jan 7 1907
 ended Dec 13 1910
 Recorded April 4 1911
 John W. C. Muro
 Co. Surveyor Cor. & Min.

Survey Record No. 30, Sec. 20 T. 134 N. R 31 W. 5th, P. M.

Field Notes of the survey of Sec. no. 20 Township No. 134 N. Range 30 31 W. 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass Co., Minnesota.

Jan. 7th, 1908, Jas. E. Rearick and Ed. Newkirk, chairmen. Geo. Green axman: I use a Keuffel and Esser Engineers transit in perfect adjustment and a Chicago steel tape, 100 ft. long.

As the Govt. bearing trees on the North side of Sec. 20, T 134, R 31, appear to be gone I begin at the true corner to Sections 13, 14, 23 and 24, we run West on $8^{\circ} 20'$ var: At 2652.24 ft. set hub for temporary $\frac{1}{4}$ cor. between sections 14 and 23, all Govt. bearing trees are gone: at 3972.54 set pin and quit for night.

Jan. 13th, 1908 same crew, continue West: at 5305.08 set hub for temporary corner to Secs. 14, 15 22 and 23. All Govt. bearing trees are gone: at 7937.16 set hub for temporary $\frac{1}{4}$ between secs. 15 and 22: All Govt. bearing trees are gone: at 10569.24 ft. set hub for temporary corner to sections 15, 16, 21 and 22: All Govt. bearing trees are gone:

Jan. 14th, 1908: Same crew, continue our line West: at 13212.54 set hub for temporary $\frac{1}{4}$ corner between sections 16 and 21. All Govt. bearing trees are gone: at 15855.84 ft. Set hub for NE Cor. Sec. 20, at which point Govt. notes call for a post and the following bearing trees: Aspen 3, S 30° E 22. Aspen 3 S 35° W, 18. Aspen 3, N 80° E 37 lks. Aspen 3, N 38° W. 34 lks. all are gone.

Jan. 15th, 1908. Same crew: Continue our line west: at 18500.46 ft. set hub for temporary $\frac{1}{4}$ corner on North side of Sec. 20; all Govt. bearing trees are gone.

At 21145.08 set hub for temporary sec. corner. The true NW cor. of Sec. 20, stands N $60^{\circ} 53'$ W. 114. ft this would make the total distance 99.60 ft. over length, making the length, of the North side of Sec. 20, a total of 5314.15 ft longer than Govt. chain.

At the NW cor. of Sec. 20, Govt. notes call for SW Spruce 5, N 65° E. 34 lks. Aspen 4, N 27° W, 20 lks. Aspen 4, S 32° E, 4. Aspen 5, S 13° W. 10 links.

We find a flat stone, set at the true corner, which stands correct for measurements and courses from the NE and SE old Govt. bearing tree stumps.

Dec. 13th, 1910. Otto Klingbiel, Geo. Green and I set a stone 8x8x36 inches in size, in a bed of cement at the true NW cor. of Sec. 20.

Resident witnesses are: Geo. Green, Otto Klingbiel, J. E. Rearick.

Recorded *Apr 4 1911.*

John W. Curo
County Surveyor, Cass Co. Minn.

A

Field Notes of the survey of section No. 19, Twp No. 134 N, Rge No. 31 W, 5th P.M. as surveyed by John W. Curo, County Surveyor of Cass Co. Minn.
 Jan. 7th, 1908, Jas. E. Rearick and Ed. Newkirk, chainmen: Geo. Green axman: I use the following instruments: a Keuffel & esser engineers' transit and a Chicago steel tape 100 ft. long.

As the Govt. bearing trees on the north side of sec. 19, T 134, R. 31 appear to be gone, I begin at the true corner to sections 13, 14, 23 and 24 and run West on $8^{\circ} 20'$ Var:

At 2652.54 ft. set hub for temporary $\frac{1}{4}$ corner between sections 14 and 23. All Govt. bearing trees are gone: at 3972.54 set pin and quit for night.

Jan. 13th, 1908, same crew, continue west: at 5305.08 ft. set hub for temporary corner to sections 14, 15, 22 and 23 all Govt. bearing trees are gone: at 7937.16 set hub for temporary $\frac{1}{2}$ between sections 15 and 22, all Govt. trees are gone: at 10569.24 ft. set hub for temporary corner to sections 15, 16, 21 and 22: All govt. bearings are gone:

Jan. 14th, 1908, same crew continue our line west: At 13212.45 set hub for temporary $\frac{1}{2}$ corner between sections 16 and 21: All Govt. bearings are gone: At 15855.84 ft. set hub for corner to Sections 16, 17, 20 and 21: All Govt. bearing trees are gone:

Jan. 15th, 1908, same crew, continue our line West: At 18500.46 ft. set hub for temporary $\frac{1}{2}$ cor. between sections 17 and 20: All govt. bearings are gone: At 21145.08 set hub for temporary section corner: the true NE cor. of Section 19, bears N $60^{\circ} 53'$ W, 114 ft. making the total distance 99.60 ft over length or 21145.08 ft. Govt. chain equals 21244.68 ft my chain.

At the NE cor. of Section 19, Govt. notes call for: Spruce 5, N 65° E, 34 lks. Aspen, 4, S 32° E, 4 lks. Aspen 5, S 13° W, 10 lks.

We find a flat stone set at the true corner, which stands correct for measurements and courses from the NE and SE old Govt. bearing tree stumps.

Dec. 13, 1910. Otto Klingbiel, Geo. Green and I set a stone 8x8x36 in a bed of cement at the true NE cor. of Section 19.

Resident witnesses are: Otto Klingbiel, Geo. Green, and J. E. Rearick.

Recorded Apr 4 1911

John W Curo
 County Surveyor Cass Co., Minn.

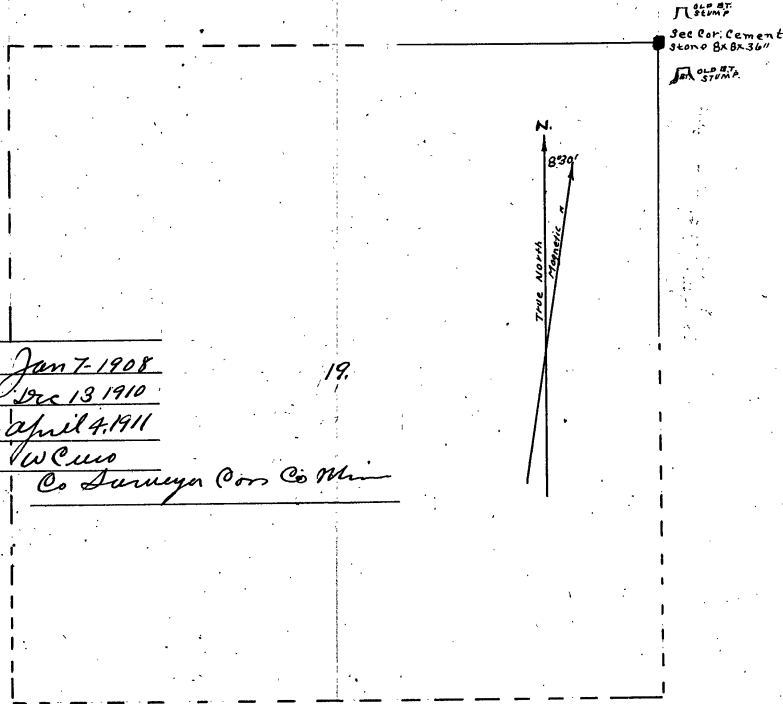
A

PLAT OF

SEC. 19 T. 134 N. R. 31 W. 5th P. M.

Scale 900 feet = one inch

SURVEY RECORD No 31



Survey begun Jan 7, 1908
finished Dec 13, 1910
Recorded April 4, 1911
John W. Cress
Co Surveyor Cor Co Minn

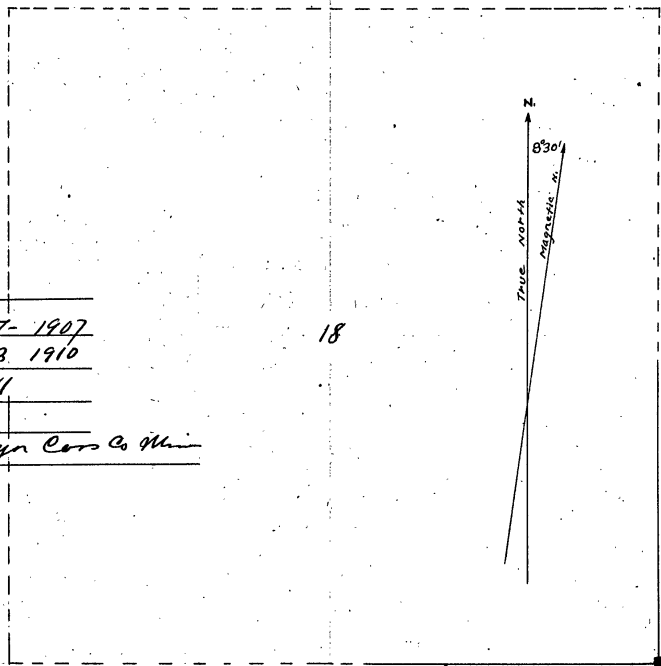
PLAT OF A

SEC. 18 T. 134 N. R. 31 W. 5th PM,

Scale 200 feet = 1 inch SURVEY RECORD No 32.

Survey begun Jan 7-1907
 " ended Dec 13, 1910
 Recorded April 4 1911
 John W. Curo
 Co. Surveyors Curo & Co. Minn.

18



OLD ST. STUMP
 848x36 cement
 STAMP SEC. 18
 OLD ST. STUMP

-PLAT-
 See Cont'd To Page This Book
 18 " 475 "

A

Survey record No. 32, Sec. 18, T 134 N, R 31 W, 5th., P. M.

Field Notes of the survey of Sec. No. 18, Twp. No. 134 N, Rge. No. 31 W, 5th P M as surveyed by John W. Curo, County Surveyor of Cass County, Minnesota.

Jan. 7th, 1908, Jas. E. Rearick and Ed. Newkirk, Chairmen: Geo. Green, axman. I use the following instruments: A Keuffel and Esser engineers' transit and a Chicago steel tape 100 ft. long.

As the Govt. bearing trees on the south side of Sec. 18, T 134 R 31 appear to be gone, I begin at the true corner to Sections 13, 14, 23 and 24, and run west on $8^{\circ} 20'$ Var:

At 2652.54 ft. set hub for temporary $\frac{1}{4}$ cor. between sections 14 and 23: All Govt. bearing trees are gone: at 3972.54 ft set pin and quit for night.

Jan. 13th, 1908. Same crew, continue west: at 5305.08 ft. set hub for temporary cor. to sections 14, 15, 22 and 23: All Govt. bearings are gone: at 7937.16 ft. set hub for temporary $\frac{1}{4}$ corner between sections 15 and 22: All Govt. bearings are gone: at 10569.24 ft, set hub for temporary corner to sections 15, 16, 21 and 22: All Govt. bearings are gone:

Jan. 14th, 1908. Same crew, continue our line west: at 13212.45 set hub for temporary $\frac{1}{4}$ corner between sections 16 and 21, All Govt. bearings are gone: at 15855.84 ft. set hub for corner to Sections 16, 17, 20 and 21, All Govt. bearings are gone:

Jan. 15th, 1908. Same crew, Continue our line west: at 18500.46 ft. set hub for temporary $\frac{1}{4}$ corner between sections 17 and 20: All Govt bearings are gone: at 21145.08 set hub for temporary section corner: the true SE corner of Section 18, bears $N 60^{\circ} 53' W$, 114 ft. making the total distance 99.60 ft. over length, or 21145.08 ft. Govt. chain, equals 21244.68 ft. my chain.

At the SE corner Sec. 18, Govt. notes call for: Spruce 5, N $65^{\circ} E$, 34 lks. Aspen 4, N $27^{\circ} W$, 20 lks. Aspen 4 S $32^{\circ} E$, 4 lks. Aspen 5, S $13^{\circ} W$, 10 lks.

We find a flat stone set at the true corner, which stands correct for measurements and courses from the NE and SE old Govt. bearing tree stumps.

Dec. 13th, 1910, Otto Klingbiel, Geo. Green and I set a stone $8 \times 8 \times 36$ in a bed of cement at the true SE cor. Sec. 18.

Resident witnesses are Otto Klingbiel, Geo. Green and J. E. Rearick.

Recorded *Apr 4 1911*

John W Curo
Surveyor, Cass Co., Minn.

NOTES	
Sec. Cont'd in Cass Co. Book	
18	473

Survey Record No. 33, Sec. 17, T 134 N, R 31 W, 5th P. M.

Field Notes of the survey of Sec. No. 17, Twp No. 134 N. Rge. No. 31 W, 5th P. M. as surveyed by John W. Curo, County Surveyor of Cass Co, Minn.

Jan. 7th, 1908, Jas. E. Rearick, and Ed. Newkirk, chairmen. Geo. Green axman. I use a K & E engineers' transit and a 100 ft. Chicago steel tape.

As the Govt. bearing trees on the south side of Sec. 17, T. 134, Rge. 31, appear to be gone I begin at the true corner to Sections 13, 14, 23 and 24, and run west on $8^{\circ} 20'$ Var:

At 2652.54 ft. set hub for temporary $\frac{1}{4}$ corner between sections 14 and 23: All Govt. bearings gone: At 3972.54 ft. set pin and quit for night.

Jan. 13th, 1908. Same crew, Continue west: at 5305.08 ft set hub for temporary corner to Sections 14, 15, 22 and 23: All Govt. bearings are gone: at 7937.16 ft. set hub for temporary $\frac{1}{4}$ Corner between sections 15 and 22. All Govt. bearings are gone: at 10569.24 ft set hub for temporary corner to sections 15, 16, 21 and 22: All Govt. bearings are gone.

Jan. 14th, 1908. Same crew. Continue our line west: At 13212.45 ft. set hub for temporary $\frac{1}{4}$ between sections 16 and 21. All Govt. bearings are gone: at 15855.84 ft. set hub for temporary SE cor. Section 17. All Govt. bearings are gone:

Jan. 15th, 1908. Same crew, continue our line West: At 18500.46 ft. set hub for temporary $\frac{1}{4}$ corner on South side of 17, All Govt. bearings are gone: At 21145.08 ft. set hub for temporary section corner: The true SW cor. Section 17, bears N $60^{\circ} 53'$ W, 114 ft. making the total distance 99.60 ft. over length and making the South side of Sec. 17, a total of 5314.15 ft. 24.91 ft. longer than Govt. chain.

At the SW. corner Sec. 17, Govt. notes call for: Spruce 5, N 65 E, 34 lks. Aspen 4, N 27 W, 20 lks. Aspen 4, S 32 E, 4 lks. Aspen 5, S 13 W, 10 links.

We find a flat stone set at the true corner which stands correct for measurements and courses from the NE and SE old Govt. bearing tree stumps.

Dec. 13th, 1910. Otto Klingbiel, Geo. Green and I set a stone 8x8x36 inches in size, in a bed of cement at the true SW corner Section 17,

Resident witnesses are Otto Klingbiel, Geo. Green, J. E. Rearick.

Recorded *Apr 4 1911*.

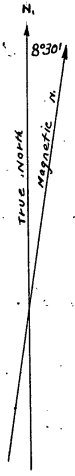
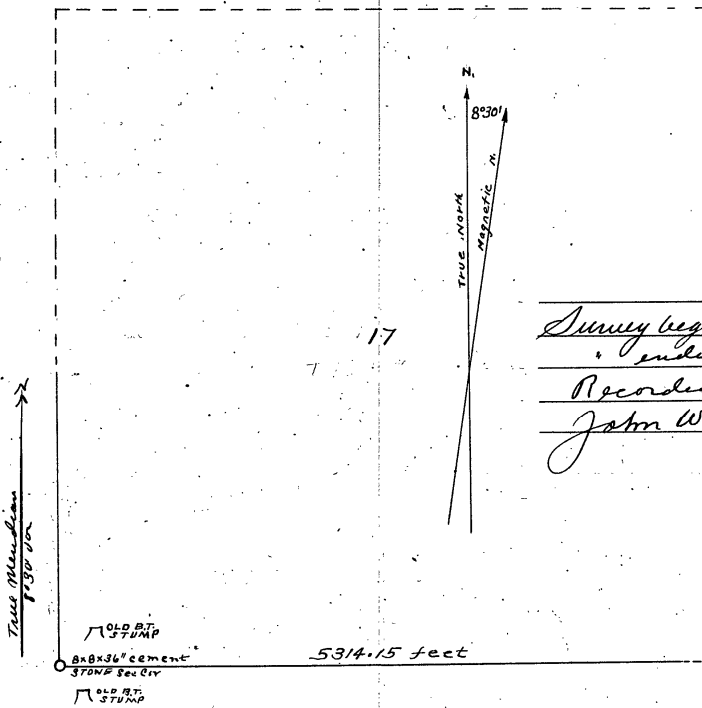
John W. Curo
County Surveyor, Cass Co., Minn.

-NOTES-			
Sec	Cont'd To Page	This Book	
17	"	473	" "

A PLAT OF

SEC. 17 T. 134 N., R. 31 W., 5th P.M.

Scale 200 feet = one inch SURVEY RECORD NO. 33.



Survey begun Jan 17 1908
 ended Dec 13 1910
 Recorded April 4 1911
 John W. Cress
 Co. Surveyor
 Ross C. Williams

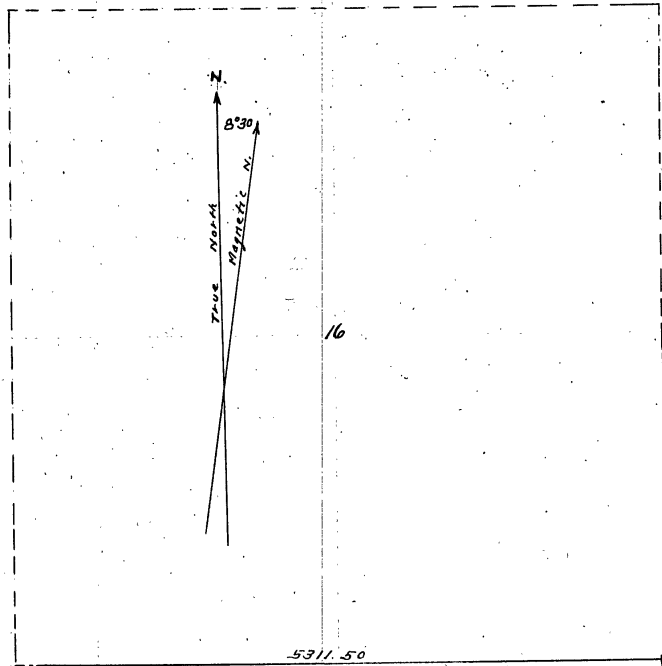
- PLAT -
 See Cont'd to Page This Book
 17 " " 425 "

PLAT OF

SEC. 16 T. 134 N. R. 31 W. 5th P.M.

Scale 200 feet = one inch

SURVEY RECORD NO. 34.



16

5311.50

8 1/2 x 3 1/2" Cement Stone Section

Survey begun Jan 7 1908
 ended Dec 17 1910
 Recorded April 4 1911
 John W. Cress
 Co. Surveyor Cor. Co. Minn.

- PLAT -	
Sec Cont'd To Page 745 Cont.	
16 " " 425 " "	

A

Survey Record No. 34. Sec. 16, Twp. 134 N. Rge. 31 W. 5th P. M.

Field Notes of the survey of ~~Sec. 16~~ Sec. 16, Twp. 134 N. Rge. No. 31 W, 5th P. M. as surveyed by John W. Curo, County Surveyor of Cass County, Minn.

Jan. 7th, 1908. Jas. E. Rearick and Ed. Newkirk, chairmen. Geo. Green axman: I use a K & E. Engineers' transit in perfect adjustment and 100 foot Chicago steel tape.

As the Govt. bearing trees around Sec. 16 appear to be gone I locate the SE cor. as follows:

Beginning at the true corner of Sections 13, 14, 23 and 24. I run West on $8^{\circ} 20'$ Var: at 2652.54 ft. set hub for temporary $\frac{1}{4}$ corner between sections 14 and 23: All Govt. bearings are gone: at 3972.54 ft. set pin and quit for night:

Jan. 13th, 1908. Same crew. Continue west: At 5305.08 ft. set hub for temporary corner to sections 14, 15, 22 and 23: All Govt. bearings are gone: at 7937.16 set hub for temporary $\frac{1}{4}$ corner between sections 15 and 22: All Govt. bearings are gone: At 10569.24 set hub for temporary south ea $\frac{1}{4}$ corner of section 16, all Govt. bearings are gone:

Jan. 14th, 1908. Same crew continue West: at 13212.45 ft. set hub for temporary $\frac{1}{4}$ on South side of Section 16, All Govt bearings are gone: At 15855.84 ft. set hub for temporary SW corner Sec. 16, All Govt. bearings are gone:

Jan. 15th, 1908. Same crew. Continue our line West: At 18500.46 ft. set hub for temporary $\frac{1}{4}$ between sections 17 and 20. All Govt. bearings are gone: At 21145.08 set hub for temporary section corner: The true corner to Sections 17, 18, 19 and 20 bears N $60^{\circ} 53'$ W, 114 ft. making the total distance 99.60 ft. over length, and making the length of Sec. 16 along the south side: 5311.50 ft. my chain, equals 5286.60 ft. Govt. chain or 24.90 ft. over length.

Dec. 17th, 1910. Harry S. Todd, Jas. E. Rearick, Geo. Green, Otto Klingbiel and I chain from the true $\frac{1}{4}$ post on the west side of Sec. 27, north to the true NW cor. of Sec. 10, and by proportionate measurement in all directions, we establish the true South East corner of Sec. 16, at which we set a stone monument 8x8x36 inches in size, in a bed of cement.

The names of resident witnesses are: Geo. Green, Otto Klingbiel, and Jas. E. Rearick.

Record Jan 4 1911

John W. Curo
County Surveyor, Cass Co., Minn.

- NOTES -
Sec. Cont'd to Page This Book
16 " 473 "

Field Notes of the survey of Sec. 15; Twp; No. 134, N. Rge. No. 31 W, 5th, P. M. as surveyed by John W. Curo, County Surveyor, Cass Co., Minn.

Jan. 4th, 1908. I use a K. & E. Transit, and 100 foot Chicago steel tape. Jas. E. Rearick and Ed. Newkirk, chainmen. Geo. Green axman:

Beginning at the SW corner, Sec. 26, run N. at 5280 set hub.

Jan. 6th, 1908. Same crew. Continue North: at 10560. set hub: No Govt. marks found on the whole run:

Jan. 7th, 1908. Same crew. Continue North Var. $9^{\circ} 20'$ at 13200 ft. set hub. True $\frac{1}{4}$ corner on East side of Section 15, bears N- $78^{\circ} 33'$ W, 151.30 ft. making the total length 32.50 ft. over length or 13200. ft. Govt. chain, equals 13232.50 ft. My chain, making the east side of the $\frac{1}{4}$ of Sec. 15, a total of 2646.50 ft. in length.

At the $\frac{1}{4}$ corner on the East side of Sec. 15, Govt. notes call for "Oak 6, S 48 E, 38 lks. Spruce 6, S 33 W, 25 lks. We find the oak standing plainly marked and the stump of the Spruce dimly marked from which we set the true $\frac{1}{4}$ corner and drive a hub.

As the Govt. bearing trees on the south side of Sec. 15 seem to be gone, I locate the corners as follows: Beginning at the true corner to Sections 13, 14, 23 and 24, I run West on $8^{\circ} 20'$ Var: at 2652.52 set hub for temporary quarter corner between sections 14 and 23: All Govt. bearings are gone: at 3972.54 set pin and quit for night.

Jan. 13th, 1908. Same crew, continue west: at 5305.08 ft. set hub for temporary corner to Sections 14, 15, 22 and 23 being the SE corner Section 15, at which point Govt. notes call for a post and the following bearing trees:

Black Pine 7, S 29 E. Black Pine 8, S 84 W, 33 lks. Black pine 10, S 86 E. 18 lks. Black Pine 10 N 25----- 20 lks. distant. All are gone and we continue west: at 7937.16 set hub for temporary quarter corner on south side of section 15, where Govt. notes call for: Spruce 10, S 20 E, 25 lks. Spruce 8, N 30 E, 35 lks. all are gone and we continue West: At 10569.24 set hub for temporary south west corner Section 15, At which point Govt. notes call for stake and the following bearing trees: Aspen 3, N 62W, 18 lks. Aspen 3, S 43 W. 20 links. Aspen 2 N 16 E. 13 links. All are gone and we continue west:

Jan. 14th, 1908. Same crew: At 13212.45 ft. set hub for temporary quarter between Sections 16 and 21: All Govt. bearings are gone: At 15855.84 ft. set hub for temporary corner to sections 16, 17, 20 and 21. All Govt. bearings are gone:

Jan. 15th, 1909. Same crew. At 18300.46 ft. set hub for temporary quarter between sections 17 and 20: All Govt. bearings are gone: At 21145.08 set hub for temporary Section corner to Sections 17, 18, 19 and 20 bears N $53^{\circ} W$ 114. ft making the total distance 99.60 ft. over length and making the length of Sec. 15, on the south side 5288.96 ft. My chain equals 5264.16 ft. Govt. chain or 24.80 ft. over length.

Jan. 17th, 1908. Newkirk and I locate the true SE cor. Sec. 15, by proportionate measurements in all directions and set stake and bearings as follows: Jack Pine 6, N $36^{\circ} 8'$ E, 6.35 ft. Jack Pine 4 S, $61^{\circ} 14'$ W, 6.15 ft: N. Pine 8, S $38^{\circ} 17'$ E, 7.80 ft.

Dec. 15th, 1910. Rearick, Green, Otto Klingbiel, and I set an 8x8x36 inch stone, in cement at the true SE cor. and quarter corner on East side of Sec. 15, and on Dec. 17, 1910, we chain from quarter cor. on west side of Sec. 17, North to the NW cor. Sec. 10, and by proportionate measurements set an 8x8x36 inch stone in cement at true SW cor. Sec. 15.

Resident witnesses are: Otto Klingbiel, J. E. Rearick, Geo. Green.

Recorded Apr 4 1911

John W. Curo
Co. Surveyor, Cass Co., Minn.

-NOTES-	
Sec Cont'd to Page This Book	
15	473

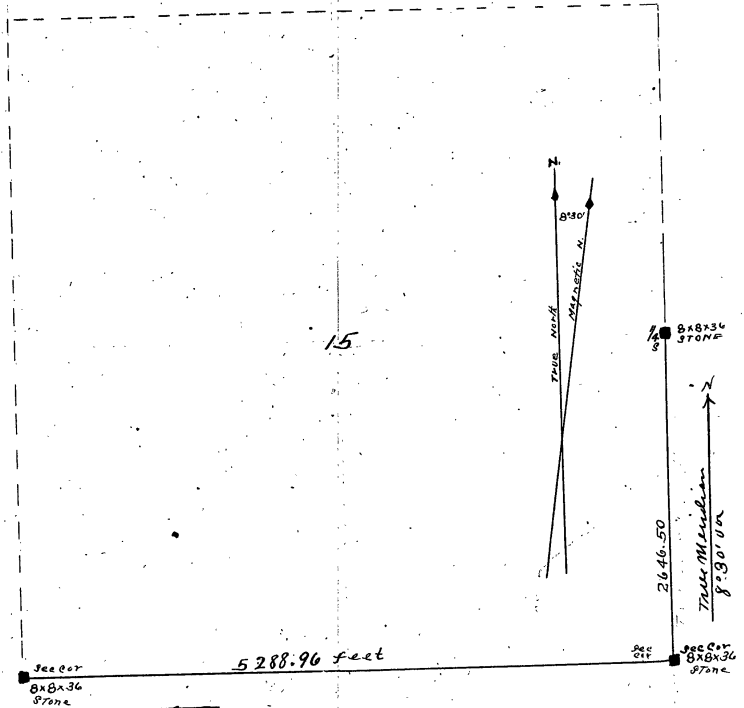
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PLAT OF

SEC. 15 T. 134 N., R. 31 W., 5th P.M.

Scale 100 feet = one inch

SURVEY RECORD NO. 35.



Survey begun Jan 7 1908
 " ended Dec 15 1910
 Recorded April 4 1911
 John W. Cusco
 Co. Surveyor Port Co. Minn.

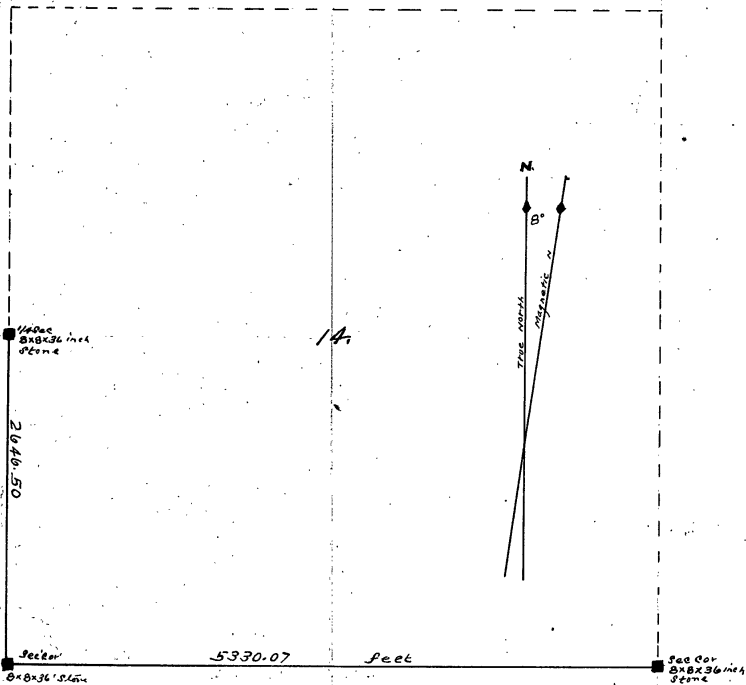
- PLAT -
 See Cont'd to Page This Book
 15 " " 475 "

A
PLAT OF

SEC. 14, T. 134 N., R. 31 W., 5th P.M.

Scale 900 feet = one inch

SURVEY RECORD No 36



Survey begun Dec 30 1907

revised Dec 15 1910

Recorded April 4 1911

John W. Co
Co Surveyor
Co. Co. Minn.

-PLAT-
See Cont'd To Page This Book
14 " " 475 " "

A

Survey Record No. 36, Sec. 14, T. 134 N. R 31 W, 5th, P. M.

Field Notes of the survey of Sec. 14, Twp. 134 N. Rge 31 W. 5th, P. M. as surveyed by John W. Curo, County Surveyor Cass Co, Minn.

Dec. 30th, 1907. Geo. Green and J. E. Rearick, chairmen: Steve and George Rogers, axmen: I use a K. & E. engineers transit and 100 foot Chicago steel tape.

At the SE corner Sec. 14, Govt. notes call for a post and the following bearing trees: Black Pine 14, S 65 W, 8 lks. Black Pine 12, N 35 E, 7 lks. Black Pine 6; S 80 E, 5 lks. ----- S N 30 W, 28 lks.

I find all the bearing trees but the NW one is out by the roots and I ignore it. Set post for true corner after which all the other trees stand perfect for course and measure.

Jan. 4th, 1908. Jas. E. Rearick, and Ed. Newkirk, chairmen: Geo. Green, Axman: Beginning at the SW corner Sec. 26, run North: At 5280 set hub.

Jan. 6th, 1908. Same crew, continue North: At 10560 set hub for temporary SW corner of Sec. 14, no Govt. marks are found on the whole run:

Jan. 7th, 1908. Same crew, continue North: Var 9° 20': at 13200 ft. set hub for temporary quarter corner: True quarter corner on West side of Section 14, bears N 78° 33' W, 151.30 ft. making the total length 32.50 ft. over length or 13200. ft Govt. chain, equals 13232.50 ft. my chain the west side of the SW 1/4 of Sec. 14, a total of 2646.50 ft. in length.

At the quarter corner on the west side of Sec. 14, Govt. notes call for: Oak 6, S 48 E, 38 lks: Spruce 6, S 33 W, 25 lk. We find the oak standing plainly marked and the stump of the Spruce dimly marked from which we set the true quarter corner and drive a hub.

Beginning at the true SE corner of Sec. 14, I run West on 8° 20' Var: at 2652.52 set hub for temporary quarter corner on South side of Sec. 14, at which point Govt. notes call for: Aspen 21, N 56 E, 12 links: Aspen 2, S 10 E, 23 links. All are gone. at 3972.54 set pin and quit for night.

Jan. 13th, 1908. Same crew, Continue west: at 5205.08 ft. set hub for temporary SW corner Sec. 14, at which point Govt. notes call for a post and the following bearing trees: Black Pine 7, S 29 E, -----: Black Pine 8, S 84 W, 33 lks. Black Pine 10, S 86 E, 18 lks. Black Pine 10, N 25 ----- 20 lks. dist. All are gone and we continue west: at 7937.16 set hub: at 10569.24 set hub.

Jan. 14th, 1908. Same crew. At 13212.45 ft. set hub: At 15855.84 ft. set hub.

Jan 15th, 1908, Same crew: At 18500.46 set hub. No Govt. bearings can be found on the whole run: At 21145.08 set hub for temporary Section Corner: The true corner to Sec. 17, 18, 19 and 20, bears N 60° 53' W, 114. ft. making Sec. 14 a total of 5330.07 ft along the south side.

Jan. 17th, 1908. Ed. Newkirk and I locate the true SW cor. Sec. 14, by proportionate measurements in all directions and set stake and bearings as follows: Jack Pine, 36° 8' E, 6.35 ft: J. Pine 4, S 61° 14' W, 6.15 ft. Nor. Pine 8, S 38° 17' E, 7.80 ft.

Dec. 15th, 1910. Rearick, Green, Otto Klingbiel, Newkirk and I set an 8x8x36 inch stone in a bed of cement, at the true SE corner, SW corner, and quarter corner on the West side of Sec. 14.

Resident witnesses are: J. E. Rearick, Geo. Green, Ed, Newkirk.

Recorded *JWC* Jan 4, 1911

John W Curo

-NOTES-
See Cont'd to Page This Area
14 " " " " " " " " " " " "

Survey Record No. 37, Sec. 13, T 134 N, R 31 W, 5th P. M.

Field Notes of the survey of Sec. No. 13, Twp. No. 134 N, Rge. No. 31 W, 5th P. M. as surveyed by John W. Curo, County Surveyor of Cass Co., Minn.

Dec. 27th, 1907, J. E. Rearick and Ed. Newkirk, chainmen. Geo. Green, axman. I use the following instruments: A Keuffel and Esser engineers' transit, and a 100 foot Chicago steel tape. At the South east corner of Sec. 13, Govt. notes call for a post and the following bearing trees: Pine 10, N 70 E, 29 lks. Pine 18, S 77 W, 21 lks. Pine 18 S, 55 E, 12, Pine 7 N 38 W, 27.

We find none of the bearing trees called for in the notes, but we find asquare topped stone, set well into the ground, which J. E. Rearick says is the true SE cor. of Sec. 13, set from old Govt. bearing trees, by the former County Surveyor.

We pass this up and go a mile west to the SW cor. of Sec. 13, at which point Govt. notes call for a post and the following BT's.

Black Pine 14, S 65 W. 8 lks. Black pine 12, N 35 E, 7 lks. Black pine 6, S 80 E, 5 lks.
Ex: ----- S N 30 W. 28 lks.

Dec. 30th, 1907. I find 11 the bearing trees at the SW corner Sec. 13, but the NW tree is out by the roots and I cannot use it. Set post for true corner after which all the other trees stand perfect.

Jan. 9th 1908. Rearick, Green and Newkirk working. Orlander Rogers drives to Pillager and brings out Mr. Ruben Rearick who positively identifies the square topped stone above mentioned, as the true SE corner Sec. 13, under this stone is a deeply driven stake, set by Mr. Whitely from the old Govt. bearing trees.

Mr. Ruben Rearick swears that the square topped stone he shows me is the true corner set by Mr. Whitely, former County surveyor, and that one fence corner is Southwesterly 41.20 ft and 38.70 ft. Northwestly to nother fence corner, and 34.30 ft. southwestly to the heart of a certain pine stump, the only stump any place near.

The measurements taken today, check out perfect. Mr. Ruben Rearick shows me a big stone northeast and another stone southeast, which he says he placed at the exact location of the original old Govt. bearing trees, and measurements taken to these stone check out perfect with the square topped stone set for the true section corner. Considering this square topped stone to be the true corner we look for the quarter corner on south side of section 13, but all traces of it are gone.

Jan. 10th, 1908. J. E. Rearick and I chain the south side of Sec. 13, and find the total distance to be 5245.70 feet.

Dec. 14th, 1910. Harry S. Todd, Newkirk, J. E. Rearick, Geo. Green, Otto Klingbiel and I pull up the stake and stone and place stone monuments 8x8x36 inches in size at the true SE and SW corners of Sec. 13.

Resident witnesses are Otto Klingbiel, Geo. Green, Ed. Newkirk, Ruben Rearick and James E. Rearick.

Recorded *Apr 4 1911*

John W. Curo
Co. Surveyor, Cass Co., Minn.

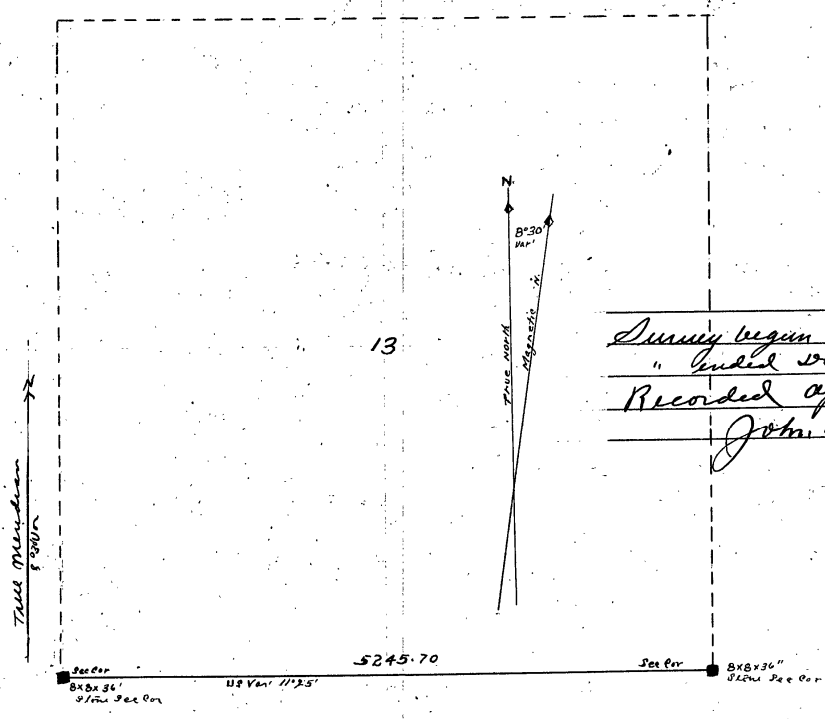
-NOTES-	
Sec. Cont'd To Page This Book	
13	479

A
PLAT OF

SEC. 13 T. 134 N., R. 31 W., 5th P.M.

SURVEY RECORD No 37.

scale correct - one inch



Survey begun Dec 28, 1907.
 " ended Dec 17, 1910
 Recorded April 4, 1911
 John W. C. Co.
 County Surveyor
 C. W. Co.

True Meridian
8 3000'

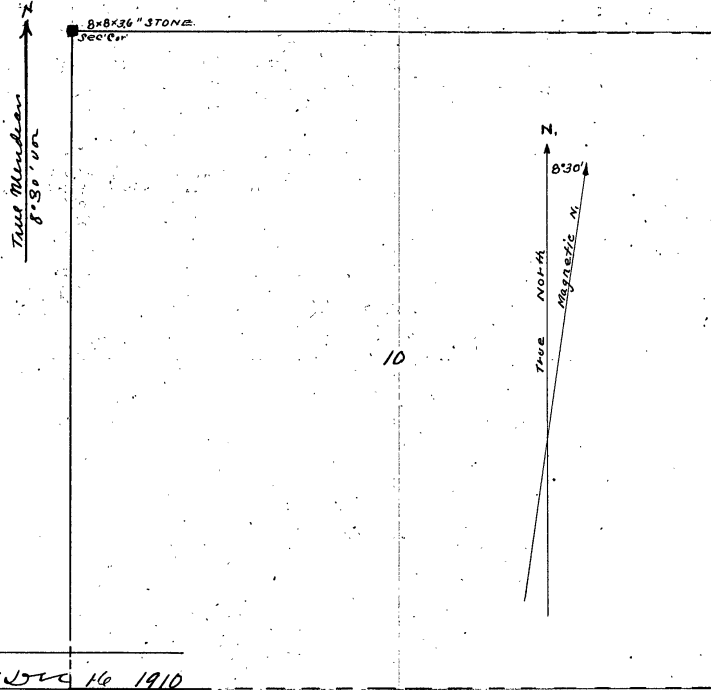
Sec 13
 5245.70
 Sec 13
 8x8x36"
 112 Van 11'25"
 8x8x36"
 8x8x36"
 8x8x36"

-PLAT-
 See Cont'd To Page This Book
 13 " 472 "

A
PLAT OF

SEC. 10, T. 134 N., R. 31 W. 5th P.M.

Scale 500 feet = one inch
SURVEY RECORD N^o 38.



Survey begun Dec 16 1910
 ended " 17 1910
 Recorded April 4 1911
 John W. Cline
 Co. Surveyor
 Co. Minn.

-PLAT-
 See Cont'd to Page This Book
 10 " 425 " "

A

Survey Record No. 38. Se. 10, T No. 134 N. R No. 31 W, 5th P.M.

Field Notes of the survey of Section No. 10, Twp. No. 134 N. Rge. No. 31 W. 5th P. M. as surveyed by John W. Curo, County Surveyor, of Cass Co., Minn.

Dec. 16th, 1910. Jas. E. Rearick, Otto Klingbiel, Geo. Green chainmen: I use Keuffel & Esser Engineer's transit in perfect adjustment and a 300 foot Chicago steel tape. We use a plumbob in taking measurements on uneven ground. At the corner to sections 3, 4, 9 and 10 T. 134, R 31, Govt. notes call for a post and the following bearing trees. Spruce 13, N 55° W, 5 links distant: Spruce 8, N 47° E, 5 links distant: Spruce 12 S 28° E, 24 links: Spruce 10, S 10° W 22 links distant.

We find the stump of the SE tree plainly marked, and the root of the Sw tree, from which we set a hub for the true Section corner, then dig a deep trench, into which we pour a mixture of Portland cement and sand. Into this cement we place a stone monument 8x8x36 inches in size for the true Northwest corner of Section 10.

The old Govt. NE and NW bearing trees cannot be found.

Dec. 17th, 1910. J. E. Rearick, Harry S. Todd, Otto Klingbiel and I chain the west side of Sec. 10, and look for the Govt. bearing trees on the west side at which point the notes of the original survey call for a post and the following bearing trees: Aspen 20, S 76° E, 28 links: Spruce 18, N 87° W, 24 links distant, All are gone:

The names of resident witnesses are as follows: Otto Klingbiel, Jas. E. Rearick, Geo. Green, John C. Martin:

Recorded Apr 4 1911

John W. Curo
County Surveyor, Cass Co., Minn.

-NOTES-	
See Cont'd 7. Page This Book	
10	" 473 "

A

Survey Record No. 39. Sec. No. 9, T. No. 134 N. R. No. 31 W, 5th P. M.

Field Notes of the survey of Sec. No. 9, Twp. No. 134 N. Rge. No. 31 W, 5th P. M. as surveyed by John W. Curo, County Surveyor of Cass Co., Minn.

Dec. 16th, 1910, Jas. E. Rearick, Otto Klingbiel, and Geo. Green chainmen: I use a Keuffel and Esser engineers' transit and a 300 foot Chicago steel tape. We use a plumb bob in taking measurements on uneven ground.

At the corner of sections 3, 4, 9 and 10 T. 134, R 31, Govt. notes call for a post and the following bearing trees: Spruce 18, N 55° W, 5 lks. dist. Spruce 8, N 47° E, 5 links dist. Spruce 12, S 28° E, 24 links distant. Spruce 10, S 10° W, 22 links distant.

We find the stump of the SE tree, plainly marked, and the foot of the SW tree, from which we set a hub for the true section corner: we dig a deep trench, into which we pour a mixture of Portland cement and sand, into this cement we place a stone 8 1/2 x 3 1/2 inches in size for the true NE corner of Section 9.

The old Govt. NE and NW bearing trees cannot be found.

Dec. 17th, 1910. J. E. Rearick, Harry S. Todd, Otto Klingbiel, and I chain the west side of Sec. 10, and look for the Govt bearing trees on the west side, at which point the notes of the original survey call for a post and the following bearing trees: Aspen 20, S 76° E 28 links distant. Spruce 18, N 87° W, 24 links distant. All are gone.

The names of the resident witnesses are as follows: Jas. E. Rearick, Geo. Green, John C. Martin.

Recorded *Apr 4 1911* ---

John W. Curo
Co. Surveyor, Cass Co., Minn. ---

-NOTES-	
Rec Cont'd To Page 74's Book	
9 " " 478 " "	

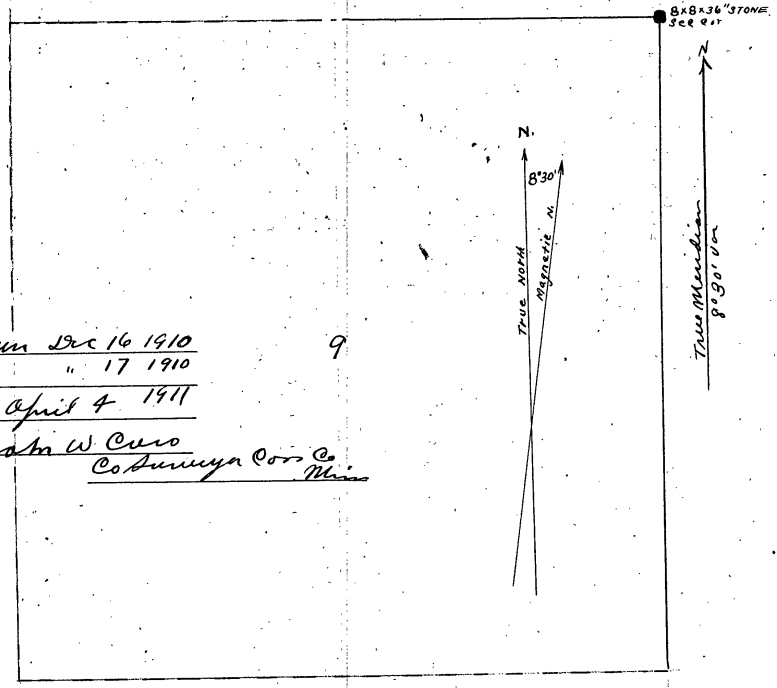
A
PLAT OF

SEC. 9, T. 134 N., R. 31 W., 5th P.M.

SURVEY RECORD NO. 39.

Scale 800 feet = 1 inch

Survey begun Dec 16 1910
" ended " 17 1910
Recorded April 4 1911
John W. Cress
Co. Surveyor Cor. Co. Minn.



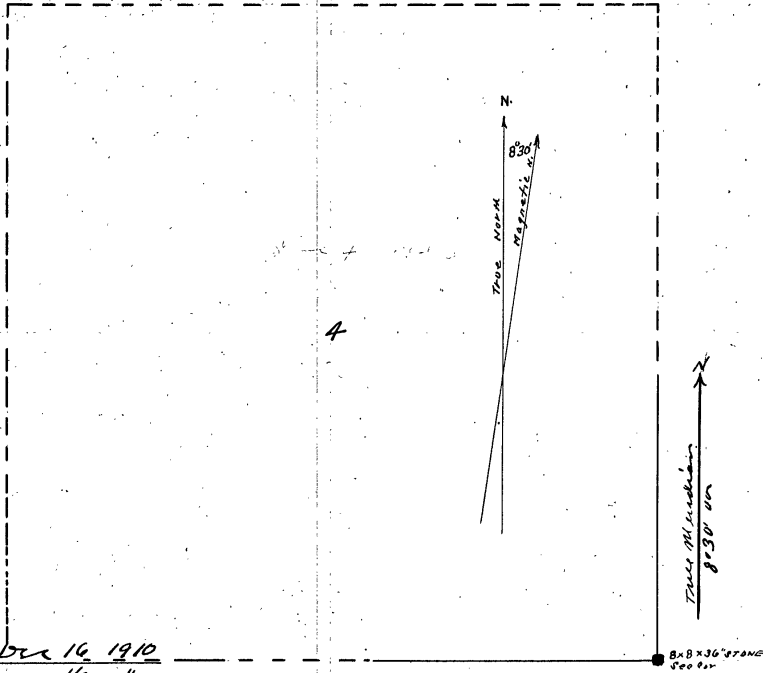
-PLAT-
See Cont'd To Page This Book
" 475 " "

A
PLAT OF

SEC. 4, T. 134 N., R. 31 W., 5th PM.

SCALE 900 FEET = 1" LINE

SURVEY RECORD NO. 40.



Survey begun Dec 16, 1910

" " " " " 16 "

Recorded April 4, 1911

*John W. Ellis
Co. Surveyor
Corr. Co. Minn.*

-PLAT-
See Cont'd To Page This Book
4 " " 475 " "

A

Survey Record No. 40. Sec. 4, T 134 N, R No. 31 W, 5th P. M.

Field Notes of the survey of Section No. 4, Twp. No. 134 N, Rge. No. 31 W, 5th P. M. as surveyed by John W. Curo, County Surveyor, of Cass Co., Minn.

Dec. 16th, 1910. Jas. E. Fearick, Otto Klingbiel, Geo. Green, chairmen. I use a Keuffel and Esser engineers' transit in perfect adjustment, and a 300 foot Chicago steel tape. We use a plumb bob in taking measurements on uneven ground: At the corner of Sections 3, 4, 9 and 10, T. 134, R 31, Govt. notes call for a post and the following bearing trees: Spruce 18, N 55° W, 5 lks. distant: Spruce 8, N 47° E, 5 lks. distant. Spruce 12, S 28° E, 24 links distant. Spruce 10, S 10° W, 22 links distant.

We find the stump of the SE tree, plainly marked, and the root of the SW tree, from which we set a hub for the true SE corner of Sec. 4, and then dig a deep trench, into which we pour a mixture of Portland cement and sand: into this cement we place a stone monument 8x8x36 inches in size, for the true southeast corner of Sec. 4.

The old Govt. NE and NW bearing trees cannot be found. The names of resident witnesses are: Otto Klingbiel, J. E. Fearick, Geo. Green, John C. Martin.

Recorded *Dec 9 1911*

John W. Curo
County Surveyor, Cass Co., Minn.

-NOTES-

See Cont'd. To Page This Book
4 " " 473 " "

A

Field Notes of the survey of Section No. 3, Twp. No. 134, N. Rge. No. 31 W, 5th P. M. as surveyed by John W. Curo, County Surveyor of Cass Co. Minn.

Dec. 16th, 1910. Jas. E. Rearick, Otto Klingbiel, Geo. Green, chairman: I use a Keuffel & Esser engineers transit in perfect adjustment and a 500 foot Chicago steel tape. We use a plumb bob in taking measurements on uneven ground:

At the corner to sections 3, 4, 9 and 10 T. 134, R 31, Govt. notes call for a post and the following bearing trees: Spruce 8, N 55° W, 5 lks. distant: Spruce 8 N 47° E, 5 links distant. Spruce 12, S 28° E, 24 links distant: Spruce 10, S 10° W, 22 lks. dist.

We find the stump of the SE tree plainly marked and the root of the SW tree, from which we set a hub for the true SW corner section 3, then dig a deep trench into which we pour a mixture of Portland cement and sand, into this cement we place a stone monument, 8x8x36 inches in size, for the true SW corner of Sec. 3.

The old Govt. NE and NW bearing trees, cannot be found.

Names of resident witnesses are: Otto Klingbiel, J. E. Rearick, Geo. Green, John C. Martin.

Recorded *Apr 4 1911*

John W Curo -----

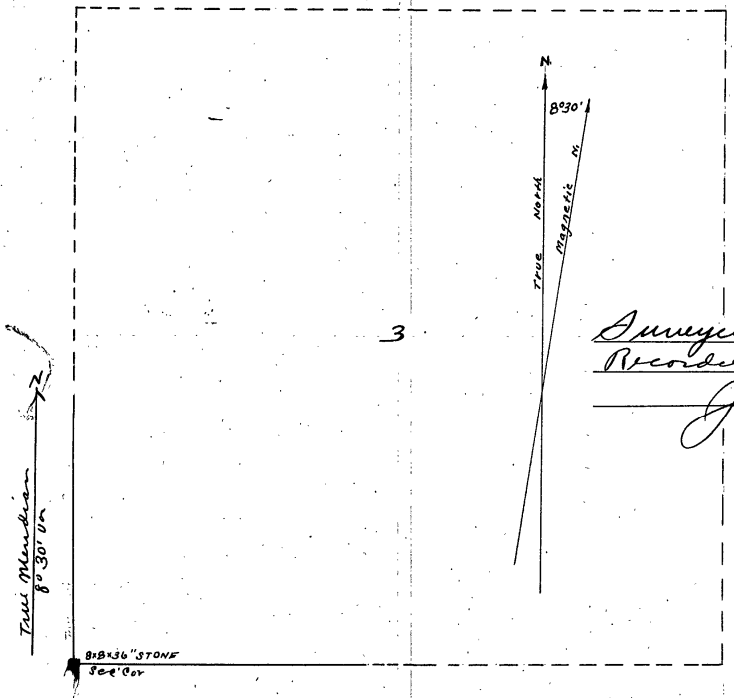
NOTES.	
See Cont'd Page 7th Book	
3 " " 473 " "	

A
PLAT OF

SEC. 3, T. 134 N., R. 31 W., 5th P.M.

Scale 200 feet / one inch

SURVEY RECORD No. 41.



Surveyed Dec 16 1910
 Recorded April 4 1911
 John W. Cull
 Co. Surveyor Cor. C

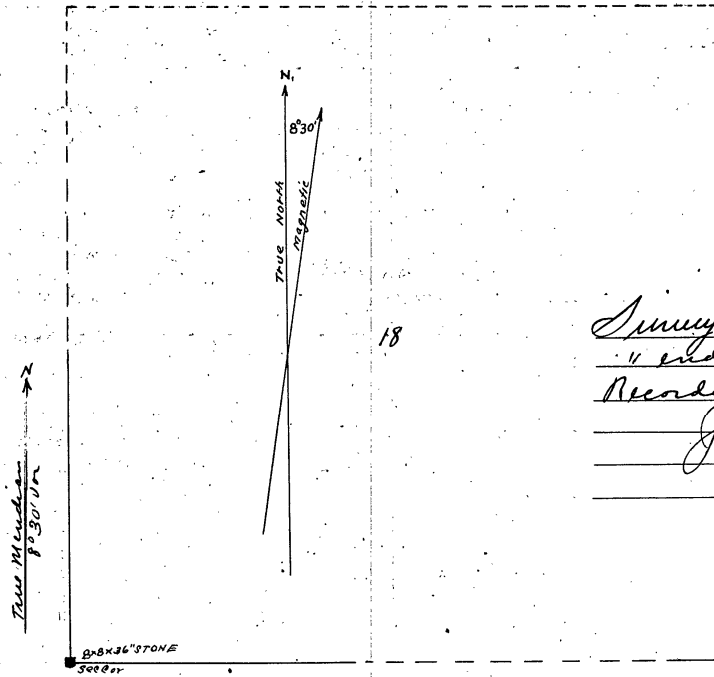
- PLAT -
 See Cont'd On Page This Book
 3 " 475 "

A
PLAT OF

SEC. 18, T. 134 N., R. 30 W. 5th P.M.

Scale 300 feet to one inch

SURVEY RECORD NO 42.



Survey begun Dec 20 1907
 " ended " 14 1910
 Recorded April 7 1911
 John W. Cuss
 County Surveyor
 Cor Co
 Minn

A

Survey record No. 42. Sec. 18, T. No. 134 N. R No. 30 W. 5th, P. M.

Field Notes of the survey of Sec. No. 18, Twp. No. 134 N. Rge. No. 30 W. 5th P. M. as surveyed by John W. Curo, County Surveyor of Cass Co., Minn.

Dec. 28th, 1907. Jas. E. Rearick and Ed. Newkirk, chainmen. Geo. Green, axman. I use the following instruments: A Keuffel and Esser engineers' transit in perfect adjustment and a 100 foot Chicago steel tape.

At the southwest corner of Sec. 18, Govt. notes call for a post and the following bearing trees: Pine 10, N 70° E, 29 links dist. Pine 18, S 77° W, 21 links distant. Pine 15, S 55° E, 12 links distant. Pine 7, N 38° W, 27 links distant.

We find none of the bearing trees called for in the notes, but we find a square topped stone, set well into the ground, which Mr. J. E. Rearick says is the true SW corner of Sec. 18, set from old Govt. bearing trees, by the former County Surveyor,

Jan. 9th, 1908. J. E. Rearick, Geo. Green and Ed. Newkirk, working: Olander Rogers drives to Pillager and brings out Ruben Rearick who positively identifies a square topped stone above mentioned, as the true south west corner of Section 18:

Under this stone is a deeply driven stake, set by Mr. Whitely from the old Govt. bearing trees. Mr. Ruben Rearick swears that the square topped stone he shows me is the true corner set by Mr. Whitely former County Surveyor, and that one fence corner is southwesterly 41.20 feet, and another fence corner bears Northwesterly 38.70 feet; and 34.30 ft. Southwesterly to the heart of a certain pine stump, the only stump any place near.

The measurements taken to day, check out perfect. Mr. Ruben Rearick shows me a big stone NE and another stone SE which he says he placed at the exact location of the original Govt. bearing trees, and measurements taken to these stones, check out perfect with the square topped stone set for the true section corner.

We consider this square topped stone to be the true SW cor. of Sec. 18, and on

Dec. 14th, 1910, Geo. Green, Otto Klingbiel and I blow out the square topped stone with repeated charges of dynamite and put in its place a stone monument 8x8x36 inches in size set in a bed of cement at the true South west corner of S section 18, Twp. 134, Range 30.

Resident witnesses are: Otto Klingbiel, Geo. Green, Ed. Newkirk, Ruben Rearick and Jas. E. Rearick.

Recorded Apr 4 1911

John W. Curo
County Surveyor, of Cass Co., Minn.

A

Survey Record No. 43, Sec. 19, T. 134 N., R. No. 30 W., 5th P. M.

Field Notes of the survey of Section No. 19, Twp. No. 134 N. Range No. 30 W. 5th, P. M. as surveyed by John W. Curo, County Surveyor of Cass Co., Minn.

Dec. 28th, 1907. Jas. E. Rearick and Ed. Newkirk, chairmen. Geo. Green axman. I use the following instruments: A keuffel and Esser engineers' transit, in perfect adjustment, and a 100 foot Chicago steel tape. We use a plumb bob to level the chain in taking measurements on uneven ground.

At the NW cor. of Sec. 19, Govt. notes call for a post and the following bearing trees: Pine 10, N 70° E, 29 links distant. Pine 18, S 77° W, 21 links. Pine 18, S 55° E, 12 links. Pine 7, N 38° W, 27 links.

We find none of the bearing trees called for in the notes, but we find a square topped stone, set well into the ground, which J. E. Rearick says is the NW corner of Sec. 19, set from old Govt. bearing trees by the former County Surveyor.

Jan. 9th, 1908. J. E. Rearick, Geo. Green and Ed. Newkirk, working: Olander Rogers drives to Pillager and brings out Mr. Ruben Rearick, who positively identifies the square topped stone above mentioned, as the true NW corner of Sec. 19.

Under this stone is a deeply driven stake, set by Mr. Whitely from the old Govt. bearing trees. Mr. Ruben Rearick swears that the square topped stone he shows me, is the true corner set by Mr. Whitely, former County Surveyor, and that one fence corner is southwesterly 41.20 ft. and another fence corner bears Northwesterly 38.70 ft. and 34.30 ft. southwesterly to the heart of a certain pine stump, the only stump any place near. Measurements taken today check out perfect.

Mr. Ruben Rearick shows me a big stone NE and another stone SE which he says he placed at the exact location of the original Govt. bearing trees, and measurements taken to these stones check out perfectly with the square topped stone set for the true section corner.

We consider this square topped stone to be the true NW corner of Section 19.

At the quarter corner on the west side of Section 19, Govt. notes call for a post and the following bearing trees: Aspen 6 N, 45 W, 12 links. Aspen 6, N 65 E, 41 links. All are gone and we go to the SW corner of 19, where Govt. notes call for a post and the following bearing trees: Pine 36, N 33 W, 26 links. Pine 24 N. 54 E. 31 links. Pine 20, S 53 W. 42 links. Br. Oak 10, S 10 E, 21 links. We find the stumps of all the old Govt. bearing trees, but the NW one has been grubbed out, so we located the true corner from the remaining three stumps and drive a hub.

Dec. 14th, 1910. Geo. Green, Otto Klingbiel, J. E. Rearick and I blew out the square topped stone at the NW corner Sec. 19, and put in its place a stonemount 8x8x36 inches in size, set in a bed of cement for the true corner, and at the SW corner of Sec. 19, we place a 8x8x36 inch stone in a bed of cement for the true corner.

Resident witnesses are: Otto Klingbiel, Geo. Green, J. E. Rearick, Ruben Rearick.

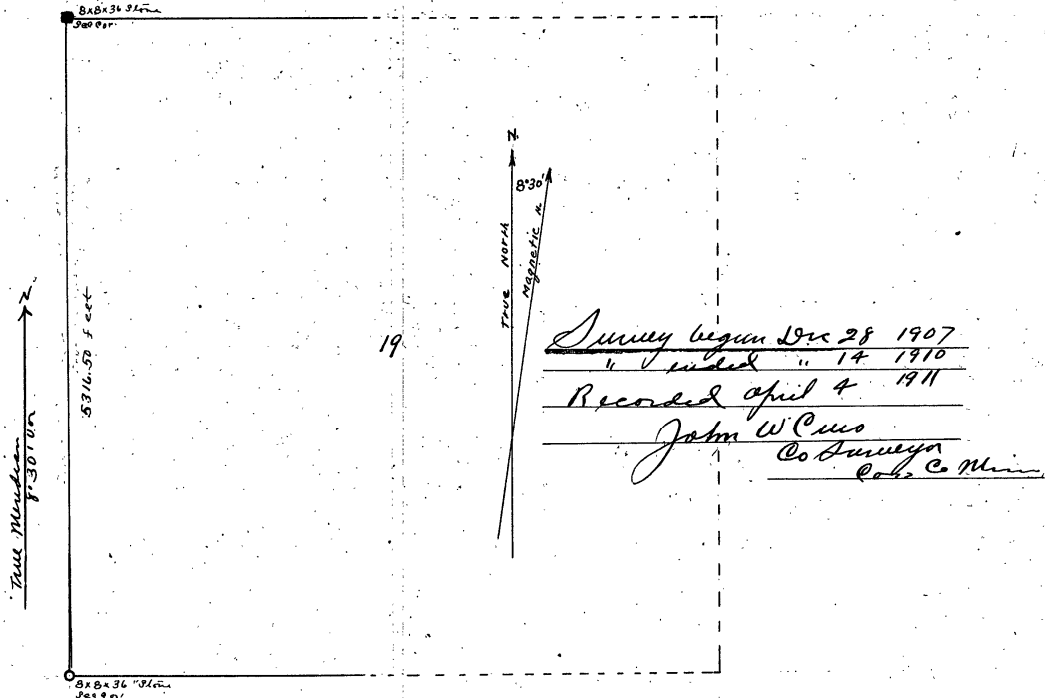
Recorded *Apr 4 1911*

John W. Curo
County Surveyor, Cass Co., Minn.

A
FLAT OF

SEC. 19, T. 134 N., R. 30 W., 5th P.M.

Scale 100 feet to one inch **SURVEY RECORD NO. 43.**



Survey begun Dec 28 1907
" " " " 14 1910

Recorded April 4 1911

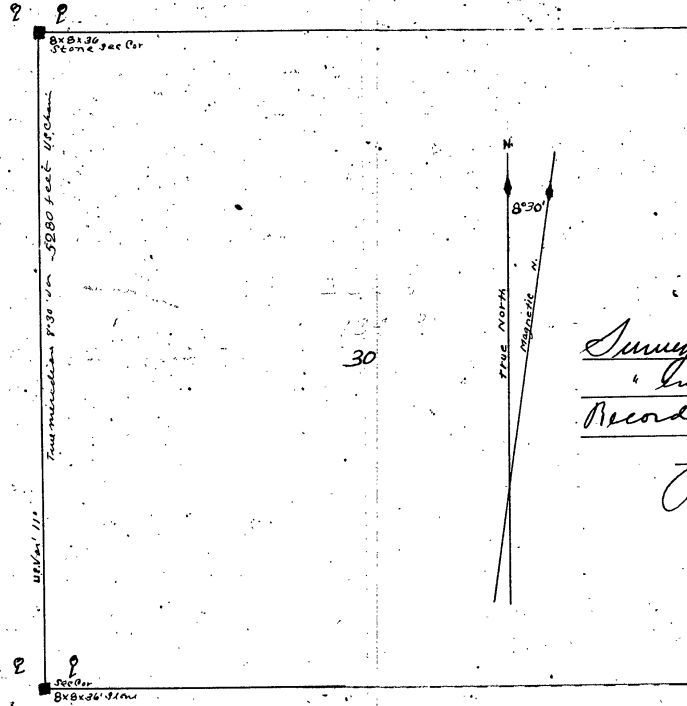
John W. Cress
Co. Surveyor
Col. Co. Minn.

A
PLAT OF

SEC. 30, T. 134 N., R. 30 W. 5th P.M.

SURVEY RECORD NO 44.

Scale 500 feet to one inch



Survey begun Dec 28 1907
" " " 13 1910

Recorded April 4 1911

John W. Cuss
Co. Surveyor
Cons. Comm.

A

Survey record No. 44, Sec. No. 30, T 134 N. R. 30 W, 5th, P. M.

Field Notes of the survey of Sec. No. 30, Twp No. 134 N. Rge. No. 30 W. 5th P. M. as surveyed by John W. Curo, County Surveyor of Cass Co., Minn.

Dec. 28th, 1907. J. E. Rearick, Ed. Newkirk, Chairmen: Geo. Green axman: I use the following instruments: A Keuffel and Esser engineers' transit and a 100 foot Chicago steel tape. We use a plumb bob to level the chain in taking measurements on an uneven ground.

At the NW corner Sec. 30, Govt. notes call for Pine 36, N 33 W, 26 links. Pine 24, N 54 E, 31 links. Pine 20 S, 53 W, 42 links. Br: Oak 10, S 10 E, 21 links.

We find the stump of all the old Govt. bearing trees, but the NW one has been grubbed out, so we locate the true corner from the remaining three stumps and drive a hub.

Dec. 27th, 1907. Ed. Newkirk, J. E. Rearick, Geo. Green axmen and chairmen. At the SW corner Sec. 30, Twp. 134, R 30, Govt. notes call for a post and the following bearing trees: Pine 18, N 10 W, 69 links: Pine 16, N 2 E 64 links. Pine 20 S 63 W 44 Links. Pine 10 S 30 E, 16 links.

We find the SE and SW old Govt. bearing trees from which we establish the true SW cor. Sec. 30, drive stake and set new bearing trees as follows: Norway Pine 8, N 44° 31 W. 41.60 ft: Jack Pine 10, N 74° 50' E. 34.25 ft. to tack heads at 9 Var.

Dec. 13th and 14th, 1910. Harry S. Todd, Arthur Herwood, Ed. Newkirk, J. E. Rearick Otto Kloggbiel and I pull up the wood stakes and place 8x8x36 inch stone monuments in a bed of cement at the true NW and true SW corners of Section 30 of above township.

I look for the quarter post on the west side of Sec. 30 where Govt. notes call for a post and the following bearing trees: P. Pine 10, N 45W, 9 links: P. Pine 8, S 20 E, 14 links: all are gone.

Resident witnesses are Otto Klingbiel, Geo. Green J. E. Rearick, Ruben Rearick and Ed. Newkirk.

Recorded Apr 4 1911

John W. Curo
County Surveyor, Cass Co., Minn.

A

Survey Record No. 45, Sec: 31, T. No: 134 N. R. No. 30, W. 5th, P. M.

Field Notes of the survey of Section No. 31, Twp No. 134 N. Range No. 30 W. 5th, P. M.
as surveyed by John W. Curo, County Surveyor of Cass Co., Minn.

Dec. 27th, 1907. Geo. Green, J. E. Fearick, Ed. Newkirk, axmen and chainmen. I use the following instruments: A keuffel and Esser engineers' transit in perfect adjustment and a 100 foot Chicago steel tape.

At the NW corner Sec. 31, 134, R. 30, Govt. notes call for a post and the following bearing trees: Pine 18, N 10° W, 69 links. Pine 16, N 2° E, 64 links. Pine 20, S 65° W, 44 links. Pine 10, S 30° E, 16 links. We find the SE and the SW old Govt. bearing trees from which we establish the true NW cor. Sec. 31, and drive a post and set new bearing trees as follows: Norway Pine 8, N 44° 31' W, 41.60 ft. Jack Pine 10, N 74° 50' E, 34.25 ft. to tax heads, at 9° Var:

Dec. 13th, 1910. Harry S. Todd, transitman: Ed. Newkirk and Arthur Henwood chainmen: Pull up the wood stake and place a stone monument 8x8x36 inches in size in a bed of cement at the true NW corner of Sec. 31, Twp 134, Rge 30.

Names of resident witnesses are Ed. Newkirk, Arthur Henwood, J. E. Fearick, and George Green.

Recorded

Apr 4 1911

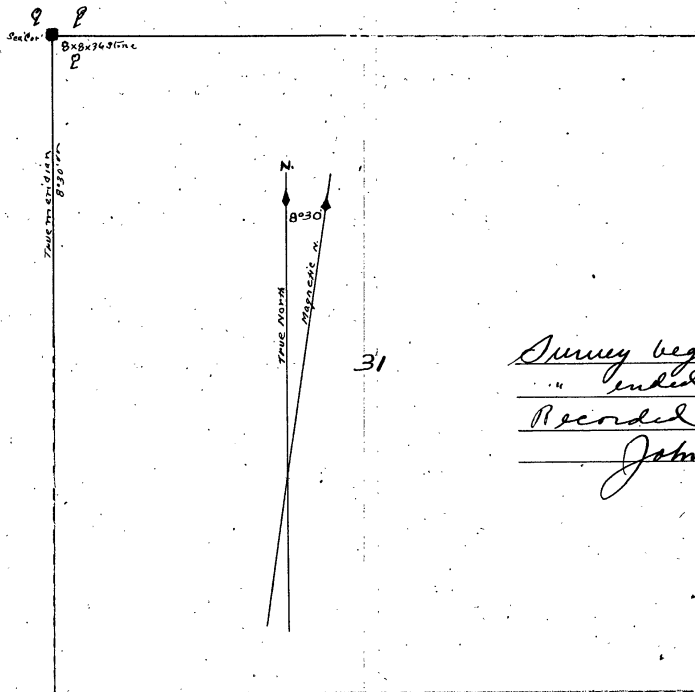
John W. Curo
County Surveyor, Cass Co., Minn.

A
PLAT OF

SEC. 31, T. 134 N., R. 30 W., 5th P.M.

SURVEY RECORD No 45

Scale 300 feet to one inch



Survey begun Dec 27 1907

" ended " 13 1916

Recorded April 4 1911

John W. Cross

Co. Surveyor

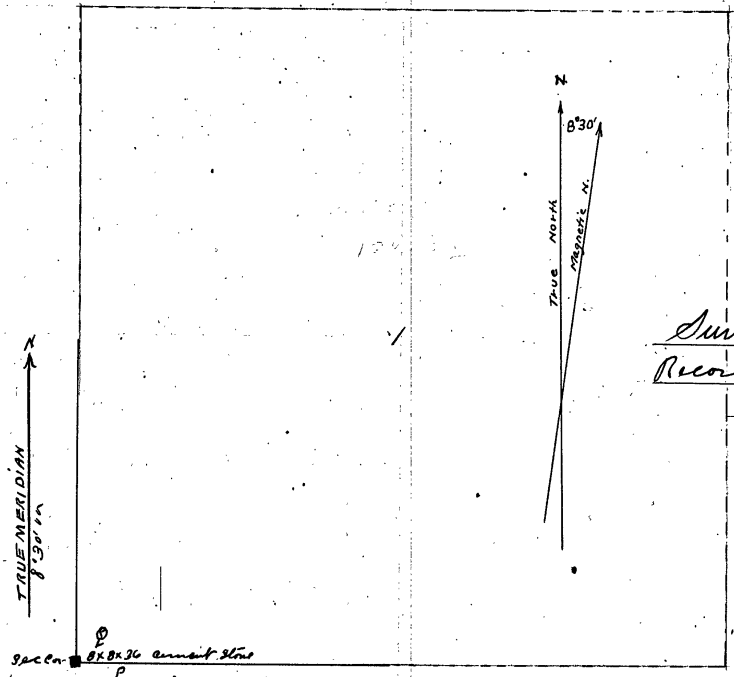
W. C. Mann

A
PLAT OF

SEC. 1, T. 138 N., R. 32 W., 5 1/4 P.M.

Scale 500 feet 1/2 inch

SURVEY RECORD NO 46.



Surveyed Nov 2nd 1910.

Recorded May 8, 1911

John W. Cress
Co Surveyor
Cot Co
Mo

- PLAT -
See Cont'd on Page of this Book
1 408

Field Notes of the survey of Section 1, Township No. 138 N. Range No. 32 W. 5th Principal Meridian as made by Harry S. Todd, Deputy County surveyor of Cass County, Minnesota, and examined, approved and recorded by John W. Curo, County Surveyor of Cass County, Minnesota: Wednesday November, 2nd, 1910. Harry S. Todd transitman, Charles Lewis exman and chairman. Carl Nelson Axman and chairman, we use the following instruments: A Keuffel and Esser Engineers' transit and a 200 foot Chicago steel tape.

At the corner to sections 1, 2, 11 and 12, being the SW corner to Section 1, T, 138 R. 32, the notes of the original Govt. survey call for a post and the following bearing trees:
 Tam. 3 S 16 $\frac{1}{2}$ W. 63 links distant,
 Tam. 4 S 62 E 65 links distant.
 White pine 14, N 87 $\frac{1}{2}$ E 1364 links distant.

We find the southeast bearing tree standing plainly marked from which we establish the SW corner of Section 1, by setting an 8x8x36 inch cement post, firmly bedded its full length in the ground. The old Govt. bearing tree, being a tamarac 4 inches in diameter bears S 62 E, 65 links distant. No other trees near.

The name of resident witnesses are: Carl Nelson, Charles Lewis, Bert Malmo, Hans L. Larson.

Recorded *May 8 1911*

Harry S. Todd
 Deputy County Surveyor.

John W. Curo
 County Surveyor, Cass Co., Minn.

- NOTES -
 Sec Cont'd on Page of this Book
 / " 409 " " "

Survey record No. 47, Sec. No. 2, T. No. 138 N. R. No. 32 W. 5th P.M.

Field Notes of the survey of Section No. 2 Township No. 138 N. Range No. 32, W 5th Principal Meridian as made by Harry S. Todd, Deputy County Surveyor of Cass County, Minnesota, and examined, approved and recorded by John W. Curo, County Surveyor of Cass County, Minnesota.

Wednesday November 2nd, 1910. Harry S. Todd transitman, Charles Lewis Axman and chairman, Carl Nelson axman and chairman, we use the following instruments: A Keuffel and Esser Engineers' transit and a 200 foot Chicago steel tape.

At the corner to Section 1, 2, 11 and 12, being the SE corner to Section 2, T 138 R. 32, the notes of the original Govt. survey call for a post and the following bearing trees:

Tam 3 S. 16 $\frac{1}{2}$ W, 63 links distant, Tam 4, S 62 E, 65 links distant.

White Pine 14, N 87 $\frac{1}{2}$ E, 1364 links distant.

We find the southeast bearing tree standing plainly marked from which we establish the true SE corner of Section 2 by setting an 8x8x36 inch cement post, firmly bedded its full length in the ground. The old Govt. bearing tree, being a tamarac 4 inches in diameter bears S. 62 E, 65 links distant. No other trees near.

The names of resident witnesses are SW Carl Nelson, Charles Lewis, Bert Melmo, Hans L. Larson.

Recorded May 8, 1911

John W. Curo
County Surveyor, Cass County, Minn.

Harry S. Todd
Deputy County Surveyor.

-NOTES-

See Cont'd on Page of this Book
2 " 409 " " "

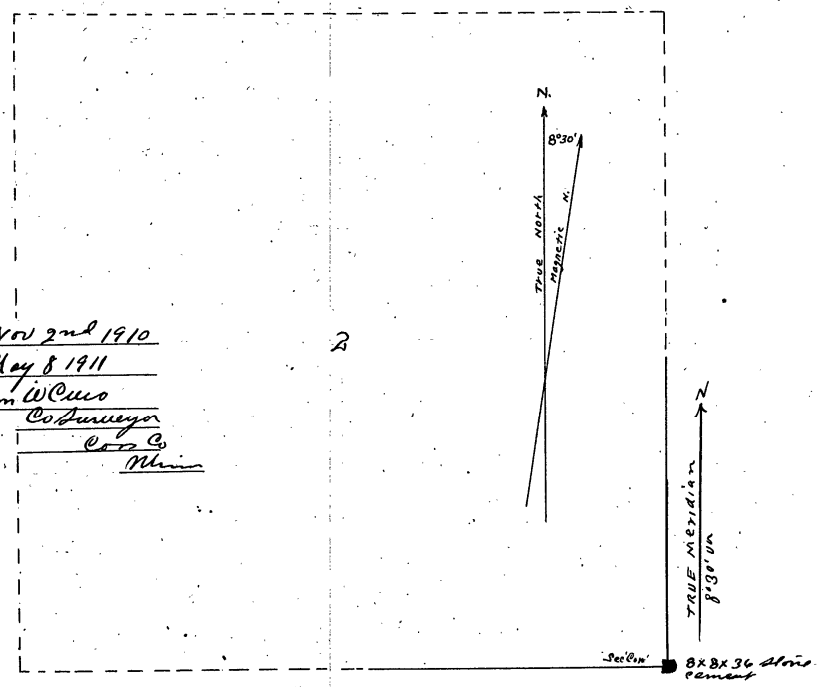
A
PLAT OF

SEC. 2, T. 138 N, R. 32 W., 5th P.M.,

scale 900 feet = 1 inch

SURVEY RECORD NO 47

Surveyed Nov 2nd 1910
Recorded May 8 1911
John W. Cuss
Co. Surveyor
Co. C.
Minn.



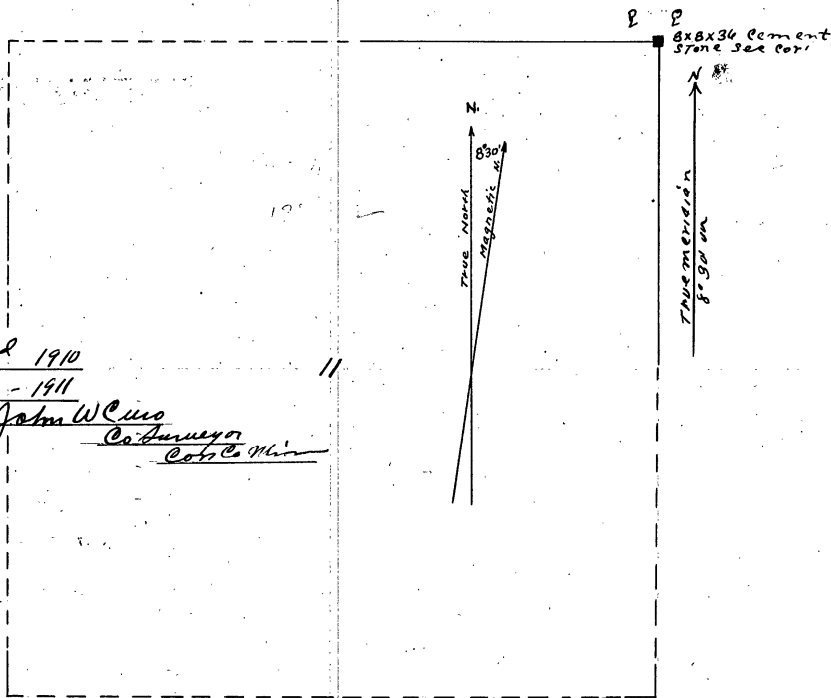
- PLAT -
 See Cont'd On Page of This Book
 2 " 408 " " "

A
PLAT OF

SEC. 11, T. 138 N., R. 32 W., 5th P.M.

Scale 900 feet = 1 inch

SURVEY RECORD NO 48.



Surveyed Nov 2nd 1910
 Recorded May 8 - 1911
 John W. Cress
 Co. Surveyor
 Co. of Minn.

-PLAT-
 See Cont'd On Page of this Book
 11 " 400 " "

A

Survey Record No. 48 Sec. No. 11, T. No. 138 N. R. No. 32 W. 5th P. M.

Field Notes of the survey of Section No. 11, Township No. 138 N. Range No. 32 W 5th Principal Meridian as made by Harry S. Todd, Deputy County Surveyor of Cass County, Minnesota, and examined, approved and recorded by John W. Curo, county surveyor of Cass county, Minnesota.

Wednesday, November 2nd, 1910, Harry S. Todd, transitman, Charles Lewis axman and chainman, Carl Nelson, axman and chainman. We use the following instruments: A Keuffel and Esser Engineers' transit and a 200 foot Chicago steel tape.

At the corner to sections 1, 2, 11 and 12, being the NE corner to Section 11, T. 138 R. 32 the notes of the original Govt. survey fall for a post and the following bearing trees:
 Tam 3 S. 16 $\frac{1}{2}$ W. 63 links distant. Tam 4 S. 62 $\frac{1}{2}$ E. 65 links distant.
 White Pine 14, N 87 $\frac{1}{2}$ E, 1364 links distant.

We find the southeast bearing tree standing plainly marked from which we establish the true NE corner of Section 11 by setting an 8x8x36 inch cement post firmly bedded its full length in the ground. The old Govt. bearing tree, being a Tamarac 4 inches in diameter bears S 62 E, 65 links distant. No other trees near.

The names of resident witnesses are: Carl Nelson, Charles Lewis, Bert Melmo, Hans L. Larson.

Recorded *May 8 1911*

Harry S. Todd
 Deputy County Surveyor.

John W. Curo
 County Surveyor, Cass Co., Minn.

-NOTES-

See Cont'd on Page of This Book
11 " " 409 " " "

A

Survey record No. 49, Sec. No. 12 T. No. 138 N. R. No. 32 W, 5th P. M.

Field Notes of the survey of Section No. 12, Township No. 138 N. Range No. 32 W. 5th Principal Meridian as made by Harry S. Todd, Deputy County surveyor of Cass County, Minnesota, and examined, approved and recorded by John W. Curo, County Surveyor of Cass County, Minnesota.

Wednesday November 2nd, 1910. Harry S. Todd, transitman, Charles Lewis axman and chainman, Carl Nelson axman and chainman. We use the following instruments: A Keuffel and Esser Engineers' transit and a 200 foot Chicago steel tape.

At the corner to sections 1, 2, 11 and 12, being the NW corner to Section 12, T 138, R. 32 the notes of the original Govt. survey call for a post and the following bearing trees:
 Tam. 3 S. 16 1/2 W. 63 links distant. Tam 4 S 62 E 65 links distant.
 White Pine 14, N 87 1/2 E. 1364 links distant.

We find the southeast bearing tree standing plainly marked from which we establish the true NW corner of Section 12 by setting an 8x8x36 inch cement post, firmly bedded its full length in the ground. The old Govt. bearing tree, being a tamarac 4 inches in diameter bears S 62 E. 65 links distant. No other trees near.

The names of the resident witnesses are: Carl Nelson, Charles Lewis, Bert Melmo, Hans L. Larson.

Recorded May 8 1911

John W. Curo
 County Surveyor, Cass Co., Minn.

Harry S. Todd
 Deputy County Surveyor.

- NOTES -

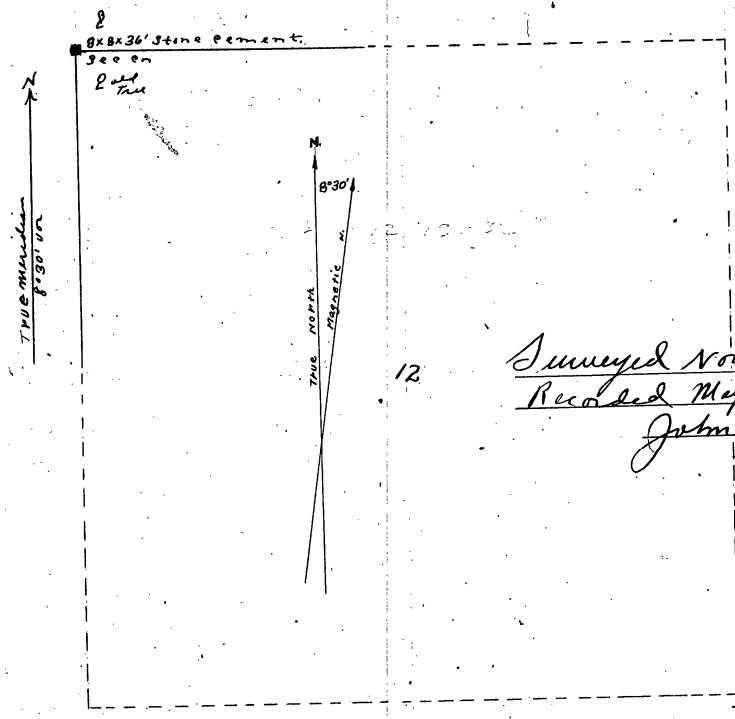
See Cont'd On Page of This Book
12 " " 109 " " "

A
PLAT OF

SEC. 12, T. 138 N., R. 32 W., 5th P.M.

Scale 200 feet to one inch

SURVEY RECORD NO 49.



12

Surveyed Nov 2nd 1910
Recorded May 8 1911
John W. Carr
Co. Surveyor Conn. Co. Minn.

-PLAT-

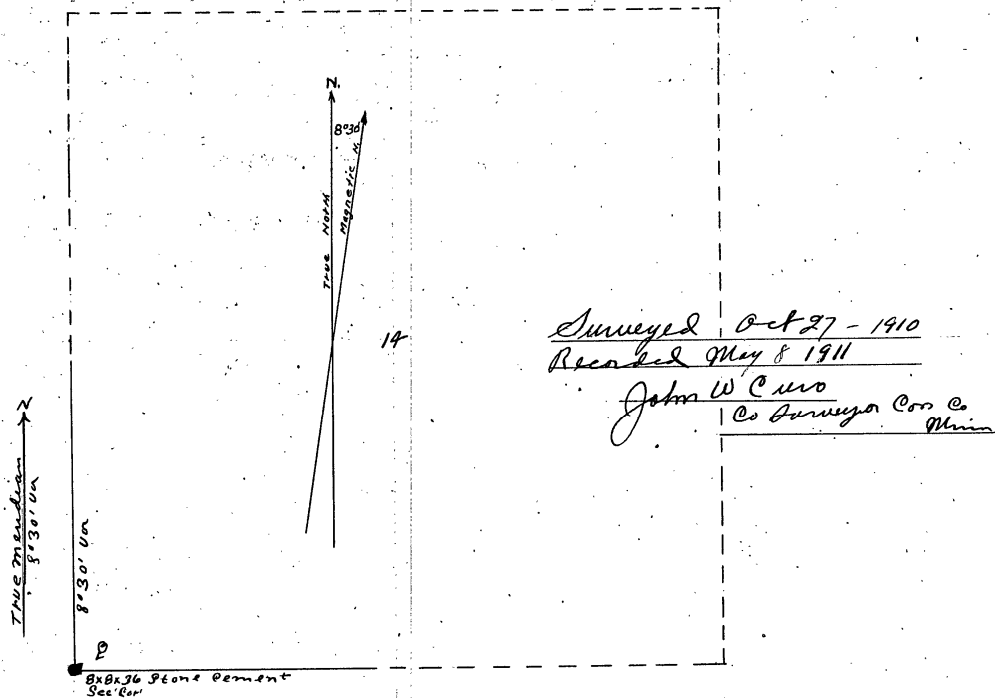
See Cont'd On Page of this Book
12 " " 408 " " "

A
PLAT OF

SEC. 14, T. 138 N., R. 32 W., 5th P.M.

Scale 300 feet / 1/2 inch

SURVEY RECORD NO. 50.



- PLAT -
See Cont'd on Page of This Book
12 " " 408 " "

A

Survey record No. 50, Sec. No. 14, Twp. No. 138 N. Rge. 32 W. 5th P. M.

Field Notes of the survey of Section No. 14, Township No. 138 N. Range No. 32 W. 5th Principal Meridian, Minnesota, as made by Harry S. Todd, Deputy County Surveyor of Cass County, Minnesota, and examined, approved and recorded by John W. Curo, County Surveyor of Cass County, Minnesota:

Thursday, Oct. 27th, 1910, Harry S. Todd, transitman; Carl Nelson, axman, Jess Watson, axman, Charles Lewis, chairman, Lawrence Daugherty chairman and axman. We use the following instruments: A Keuffel and Esser Engineers' transit and a 200 foot Chicago steel tape.

At the corner to Sections 26, 27, 34 and 35 Notes of original Govt. survey call for a stake and the following bearing trees:

Norway Pine 16, S 13W 33 links. Norway Pine 13, S 32 E. 81 links.
Norway Pine 14, N 62½ E. 28 links. Aspen 4 N. 32 W. 18 links.

All the trees are gone except the southwest one which has been cut down but the stump stands plainly marked and is positively identified by the axmen and chainmen as being the true old SW bearing tree stump. From this we set the true corner by placing a cement post 8x8x36 inches in size, its full length in the ground, and run North on 8° 15' var: at 839.85 ft. set hub: at 1320 ft. set temp. 1/16 post: 2640 ft. set temporary ¼ post. All govt. bearing trees are gone: at 2741.20 set hub: at 3797 set hub: at 3960 hub: at 5280 set hub for temp. cor. to sections 22, 23, 26, 27 all Govt. bearings are gone. Off set 35.55 ft. EAST so as to run up the road and continue NORTH at 189.24 set hub: at 1320. hub: at 2640 ft. set hub for temp. ¼ post all Govt. marks are gone: at 2725.45 set hub: at 3589.90 ft. set hub: 3960. temp. 1/16: at 4366.50 set hub: 5158.90 hub: in road 40ft. west of the true corner to sections 14, 15, 22, 23 at which point the Govt. notes call for Black Pine 10 N. 50 E. 5 links: Black Pine 4 S 57½ W. 132 links. Black Pine 3 N. 50 links.

We find the stump of the southwest tree standing plainly marked from which we set true corner by placing an 8x8x36 inch cement post firmly in the ground for the true SW corner Sec. 14:

The names of resident witnesses are: Jess Watson, Carl Nelson, Cha. Lewis, L. Daugherty.

Recorded May 8 1911
Harry S. Todd
Deputy County Surveyor.

John W. Curo
County Surveyor, Cass Co., Minn.

-NOTES-

Sec	Call'd On Page of This Book
14	" 409 " " "

Field Notes of the survey of Section No. 15, Township No. 138 N., Range No. 32 W. 5th Principal Meridian, Minnesota, as made by Harry S. Todd, deputy county surveyor of Cass County, Minnesota, and examined, approved and recorded by John W. Curo, county surveyor, of Cass county, Minnesota.

Thursday, Oct. 27th, 1910: Harry S. Todd, transitman: Carl Nelson, axman: Jess Watson, axman: Charles Lewis, chairman: Lawrence Daugherty chairman and axman: We use the following instruments: A Keuffel and Esser engineers' transit and a 200 foot Chicago steel tape.

At the corner to Sections 26, 27, 34 and 35 notes of original govt. survey call for a stake and the following bearing trees:

Norway Pine 16, S 13 W., 33 links. Norway Pine 13, S 32 E 81 links.
Norway Pine 14, N 62½ E. 28 links. Aspen 4, N 32 W. 18 links.

All the trees are gone except the southwest one which has been cut down but the stump stands plainly marked, and is positively identified by the axmen and chainmen as being the true old SW bearing tree stump, from this we set the true corner by placing a cement post 8x8x36 inches in size, is full length in the ground and run North on 9° 15' var. at 839.85 ft. set hub: at 1320 ft. set temp. 1/16 post: 2640. feet set temporary 1/4 post. All Govt. bearing trees are gone: at 2741.20 set hub: at 3797. set hub. at 3960 hub. at 5280 set hub for temp. cor. to sections 22, 23, 26, 27 all govt. bearings are gone:

at Off set 35.55 ft. EAST so as to run up the road and continue NORTH at 189.24 set hub: at 1320 hub: at 2640. ft. set hub: for temp. 1/4 post, all Govt. marks are gone: at 2725.45 set hub: at 3589.90 ft. set hub: 3960: Temp. 1/16: at 4366.50 set hub: 5158.90 hub. In road 40 ft. West of the true corner to sections 14, 15, 22, 23 at which point the Govt. notes call for Black Pine 10 N 50 E 5 links: Black Pine 4 S 57½ W 132 links: Black Pine 3 North 50 links. We find the stump of the southwest tree standing plainly marked from which we set true corner by placing an 8x8x36 inch cement post firmly in the ground for the true SE corner Sec. 15.

The names of resident witnesses are: Jess Watson, Carl Nelson, Chas. Lewis, L. Daugherty.

Recorded May 8 1911

Harry S. Todd
Deputy County Surveyor.

John W. Curo
County Surveyor, Cass Co., Minn.

-NOTES-

See Cont'd on Page of This Book
15 " 409 " " "

A
PLAT OF

SEC. 15, T. 138 N., R. 32 W., 5th P.M.

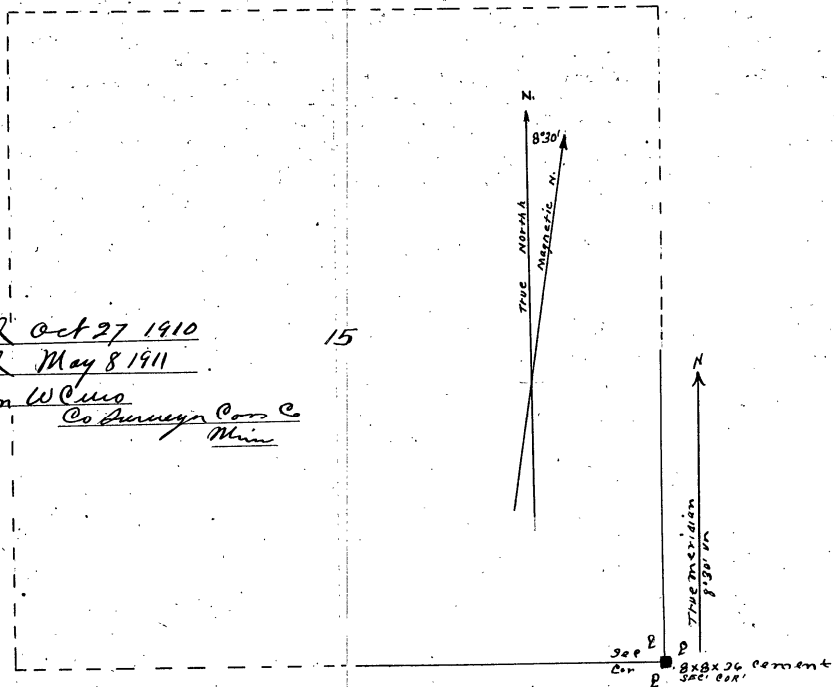
Scale 900 feet = 1 inch

SURVEY RECORD No 51

Surveyed Oct 27 1910
Recorded May 8 1911

15

John W. Cullis
Co Surveyor
Minn.



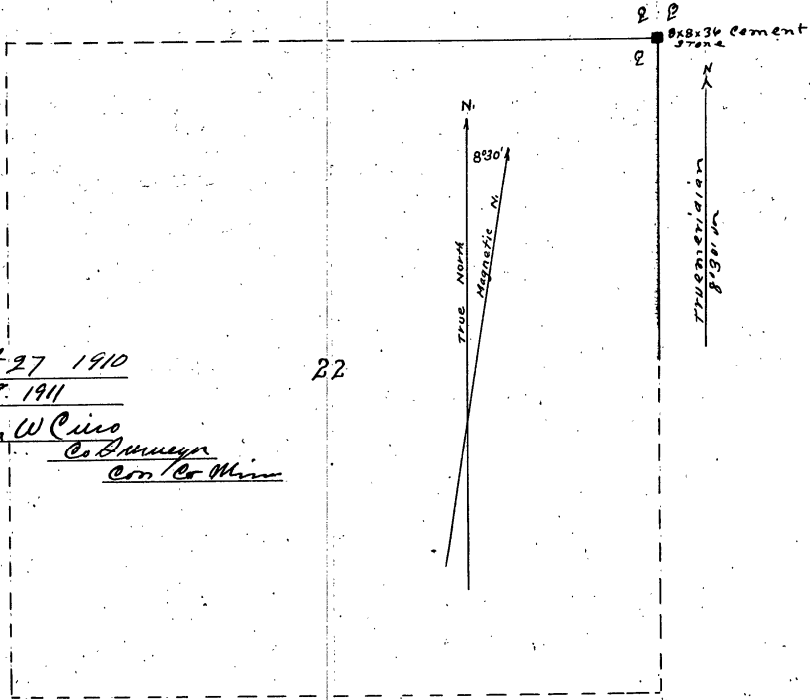
- PLAT -
See Cont'd On Face of This Book
15 " " 4.08 " " "

A
PLAT OF

SEC. 22, T. 138 N., R. 32 W., 5th P.M.

Scale 900 feet = one inch

SURVEY RECORD NO. 52.



Surveyed Oct. 27 1910
Recorded May 8. 1911

John W. Cline
Co. Surveyor
Can. Co. Minn.

22

PLAT	
Sec (cont'd on Page of This Book	
22	" 41/ "

A

Survey record No. 52, Sec. No. 22, Twp. No. 138 N. Re. 32 W. 5th P. M.

Field Notes of the survey of Section No. 22 Township No. 138 N. Range No. 32 W. 5th Principal Meridian, Minnesota, as made by Harry S. Todd, deputy county surveyor of Cass county, Minnesota, and examined, approved and recorded by John W. Curo, county surveyor of Cass county, Minnesota.

Thursday, Oct. 27th, 1910, Harry S. Todd, transitman: Carl Nelson, axman, Jess Watson, Axman: Charles Lewis, chairman: Lawrence Daugherty chairman and axman: We use the following instruments: A Keuffel and Esser Engineers' transit and a 200 foot Chicago steel tape.

At the corner to Secs. 26, 27, 34 and 35 notes of original Govt. survey call for a stake and the following bearing trees:

Norway Pine 16, S 13° W, 33 links,
 Norway Pine 13, S 32° E, 81 links,
 Norway Pine 14, N 62½° E. 28 links,
 Aspen 4, N 32° W, 18 links.

All the trees are gone, except the southwest one which has been cut down, but the stump stands plainly marked, and is positively identified by the axmen and chairmen as being the true old SW bearing tree stump. From this we set the true corner by placing a cement post 8x8x36 inches in size, its full length in the ground and run NORTH on 9° 15' var.: at 839.85 ft. set hub: at 1320 ft set temp. 1/16 post: 2640 ft. set temporary 1/4 post. All Govt. bearing trees are gone: at 2741.20 set hub : : at 3797.. set hub: : at 3960 Hub at 5280 set hub for temp. cor. to sections 22, 23, 26, 27, all Govt. bearings are gone:

Off set 35.55 ft. EAST so as to run up the road and continue NORTH at 189.24 set hub: at 1320 hub: at 2640 ft. set hub for temp. 1/4 post, All Govt. marks are gone: at 2725.45 set hub: at 3589.90 ft set hub: 3690. tem't 1/16: at 4366.50 set hub: 5158.90 hub: in road 40 ft. West of the true corner to sections 14, 15, 22, 23 at which point the Govt. notes call for

Black pine 10 N 50 E 5 links,
 Black pine 4 S 57½ W 132 links,
 Black pine 3 N. 50 links.

We find the stump of the southwest tree standing plainly marked from which we set true corner by placing an 8x8x36 inch cement post firmly in the ground for the true NE cor. Sec. 22.

The names of resident witnesses are: Jess Watson, Carl Nelson, Chas. Lewis, L. Daugherty.

Recorded May 8 1911

Harry S. Todd
 Deputy County Surveyor.

John W. Curo
 County Surveyor, Cass Co. Minn.

- NOTES -

See Cont'd On Page of This Book
22 " " 411 " " "

Field Notes of the survey of Section No. 23, Township No. 138 N. Range No. 32 W. 5th Principal Meridian, Minnesota, as made by Harry S. Todd, deputy county surveyor of Cass county, Minnesota, and examined, approved and recorded by John W. Curo, county surveyor of Cass county, Minnesota:

Thursday, Oct. 27th, 1910. Harry S. Todd, transitman: Carl Nelson axman: Jess Watson axman: Charles Lewis, chairman: Lawrence Daugherty chairman and axman: We use the following instruments: A Keuffel and Esser Engineers' transit and a 200 foot Chicago steel tape.

At the corner to Sections 26, 27, 34 and 35, Notes of original govt. survey call for a stake and the following bearing trees:

Norway Pine 16, S 13 W, 33 links,
Norway Pine 13, S 32 E, 81 links,
Norway Pine 14, N 62½ E, 28 links,
Aspen 4, N 32 W. 18 links.

All the trees are gone except the southwest one which has been cut down, but the stump stands plainly marked, and is positively identified by the axman and chairmen as being the true old SW bearing tree stump. From this we set the true corner by placing a cement post 8x8x36 inches in size, its full length in the ground, and run North on 9° 15' var.: at 839.85 ft. set hub: at 1320 ft. east temp. 1/16 post: 2640 ft set temporary ¼ post: All Govt. bearing trees are gone: at 2741.20 set hub: at 3797. set hub: at 3960 hub. at 5280. set hub for temp. cor. to sections 22, 23, 26, 27 all Govt. bearings are gone:

Off set 35.55 ft. East so as to run up the road and continue for temp. ¼ post all Govt. marks are gone: at 2725.45 set hub: at 3589.90 ft. set hub: 3960. tem't 1/16- at 4366.50 set hub.: 5158.90 hub: in road 40 ft. west of the true corner to sections 14, 15, 22, 23, at which point the Govt. notes call for
Black Pine 10 N 50 E 5 links,
Black Pine 4 S 57½ W, 132 links,
Black Pine 3 North 50 links.

We find the stump of the southwest tree standing plainly marked from which we set true corner by placing an 8x8x36 inch cement post firmly in the ground for the true NW corner Sec. 23.

The names of resident witnesses are: Jess Watson, Carl Nelson, Chas. Lewis, L. Daugherty.

Recorded *May 8 1911*

Harry S. Todd
Deputy, County Surveyor.

John W. Curo
Co. Surveyor, Cass co., Minn.

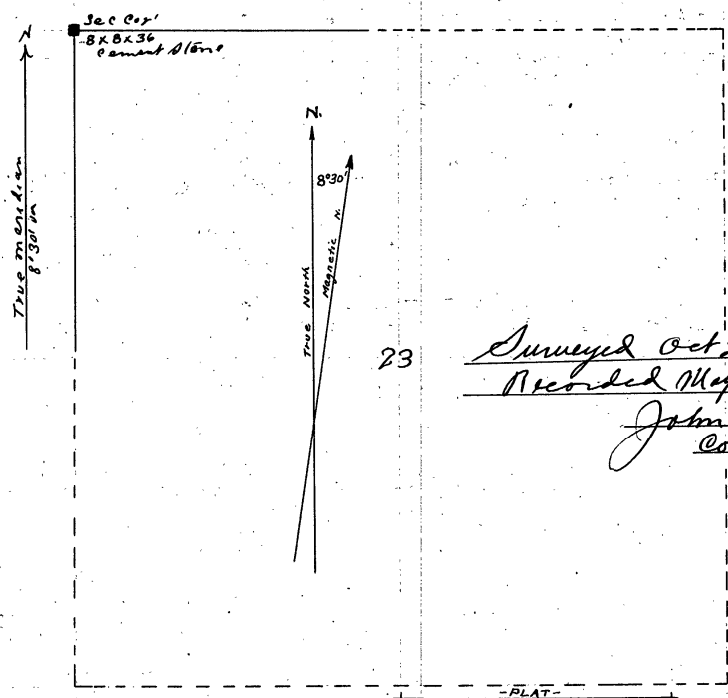
-NOTES-
See Cont'd on Page of this Book
23 " " " " " "

A
PLAT OF

SEC. 23, T. 138 N., R. 32 W., 5th P.M.

Scale 900 feet = 1 inch

SURVEY RECORD NO. 53.



Surveyed Oct 27 1910
Recorded May 8 1911

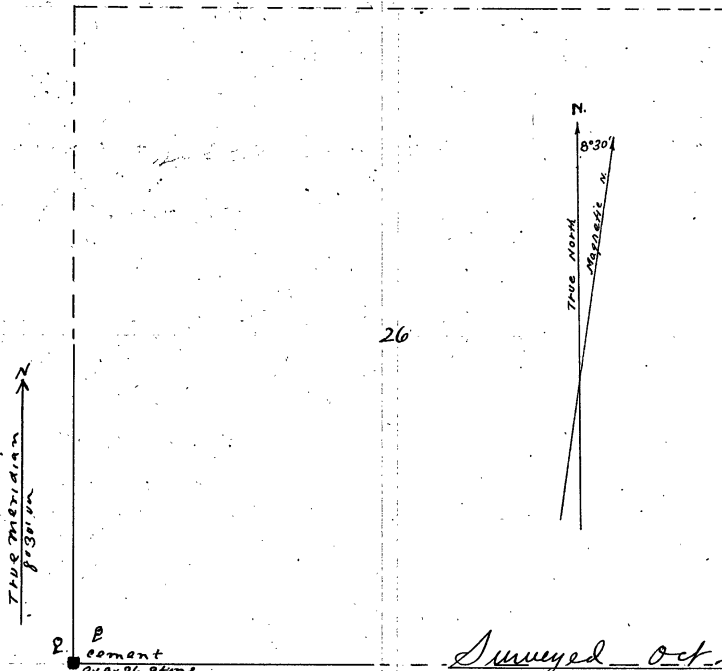
John W. P. ...
County Surveyor
Corr. C. W. ...

-PLAT-
Sec Cont'd On Page of This Book
23 " " 411 " " "

A
PLAT OF

SEC. 26, T. 138 N., R. 32 W. 5th PM.

Scale 900 feet = 1 inch SURVEY RECORD NO 54.



Surveyed Oct 27 1910
 Recorded May 8 1911.
 John W. Curio Co Surveyors & Co
 Minn

- PLAT -
Sec Cont'd On Page This Book
26 " " 41 " " "

Field Notes of the survey of Section No. 26, Township No. 138 N. Range 32 W. 5th Principal Meridian, as made by Harry S. Todd, deputy county surveyor of Cass county, Minnesota, and examined, approved and recorded by John W. Curo, county surveyor of Cass county, Minnesota. Thursday, Oct. 27th 1910, Harry S. Todd, transitman, Carl Nelson axman: Jess Watson, axman, Chas. Lewis, chairman: L. Daugherty, chairman and axman: We use a Keuffel & Esser, transit and a 200 ft. Chicago steel tape: At the corner to sections 26, 27, 34 and 35, notes of Govt. survey call for a stake and the following bearing trees:

Norway pine 16, S 13 W, 33 links,
Norway pine 13, S 32 E 21 links,
Norway Pine 14, N 62½ E 28 links.
Aspen 4 N 32 W, 18 links.

All the trees are gone except the southwest one which has been cut down but the stump stands plainly marked, and is positively identified by the axmen and chairmen as being the true old SW bearing tree stump. From this we set the true corner by placing a cement post 8x8x36 inches in size, its full length in the ground, and run North on 9° 15' var: At 839.85 ft set hub: at 1320 set temp. 1/16 post: at 2640 ft set temporary ¼ post: all Govt. bearing trees are gone: at 2741.20 set hub: at 3737 set hub: at 3960. hub at 5280 set hub for temporary corner to sections 22, 23, 26, 27. All Govt. bearings are gone.

Off set 35.55 ft. East so as to run up the road and continue North at 189.24 set hub: at 1320. hub.: at 2640 set hub for temp. ¼ post. All Govt. marks are gone: at 2725.45 set hub: at 3589.90 set hub: at 3960 temp 1/16 post: at 4366.50 set hub: at 5158.90 hub in road 40 ft west of the true corner to Secs. 14, 15, 22, 23 at which point the Govt. notes call for
Black pine 10 N 50 E 5 links,
Black Pine 4 S 57½ W 132 links,
Black Pine 3 N. 50 Links.

We find the stump of the SW tree standing plainly marked from which we set the true corner by placing an 8x8x36 inch cement post, firmly in the ground.

Oct. 29th. All work except Nelson. At ¼ corner between Sections 27 and 28, Govt. notes call for Norway Pine 29 S 71 E 140 links,
Norway Pine 8 N 20 W 31 links.

We find the SE tree standing plainly marked from which we set an 8x8x36 inch cement post for the true ¼ corner between Sections 27 and 28 T 138 N. R 32 W 5th P. M.

Names of resident witnesses are SW Jess Watson, Carl Nelson, Chas. Lewis and L. Daugherty.

Recorded *May 8 1911*

Harry S. Todd
Deputy county surveyor.

John W. Curo
County surveyor, Cass co., Minn.

-NOTES-	
See Cont'd On Page This Book	
26	411

Field Notes of the survey of Section 27 Township No. 138 N. Range No. 32 W. 5th Principal Meridian, as made by Harry S. Todd, Deputy county surveyor of Cass county, Minnesota, and examined, approved and recorded by John W. Curo, county surveyor, Cass county, Minnesota.

Thursday, Oct. 27th, 1910. Harry S. Todd, transitman, Carl Nelson, axman: Jess Watson, axman: Chas. Lewis, chairman: L. Daugherty, chairman and axman: We use a Keuffel & Esser transit and a 200 ft. Chicago steel tape: At the corner to Sections 26, 27, 34 and 35 notes of Govt. survey call for a stake and the following bearing trees:
 Norway pine 16, S 13 W 33 links,
 Norway pine 13, S 32 E, 21 links,
 Norway pine 14, N 62½ E, 28 links.
 Aspen 4 N 32 W, 18 links.

All the trees are gone except the southwest one which has been cut down but the stump stands plainly marked, and is positively identified by the axmen and chainmen as being the true old SW bearing tree stump: From this we set the true corner by placing a cement post 8x8x36 inches in size, its full length in the ground, and run North 8° 15' var. At 839.85 ft set hub: at 1320 set temp. 1/16 post: at 2640 ft set temporary 1/4 post: All Govt. bearing trees are gone: at 2741.20 set hub: at 3797 set hub. at 3960 hub. at 5280 set hub for temporary corner to secs. 22, 23, 26, 27. All Govt. bearings are gone: Offset 35.55 ft East so as to run up the road and continue North at 189.24 set hub: at 1320 hub: at 2640 set hub for Temp. 1/4 post. All Govt. marks are gone: at 2725.45 set hub: at 3589.90 set hub: at 3960. temp 1/16 post: at 4366.50 set hub: at 5158.90 hub in road 40 ft. West of the true corner to Secs. 14, 15, 22, 23, at which point the Govt. notes call for

Black pine 10, N 50 E. 5 links,
 Black pine 4, S 57½ W. 132 links.
 Black pine 3, N. 50 links.

We find the stump of the SW tree, standing plainly marked from which we set the true corner by placing an 8x8x36 inch cement post, firmly in the ground.

Oct. 29th, 1910. All work except Nelson. At 1/4 corner between Sections 27 and 28, Govt. notes call for Norway pine 29 S 71 E. 140 links.,
 Norway pine 8, N 20 W. 31 links.

We find the SE tree standing plainly marked from which we set an 8x8x36 inch cement post for the true 1/4 corner between sections 27 and 28. T 138 N R 32 W 5th P. M.

Names of resident witnesses are: Jess Watson, Carl Nelson, Chas. Lewis, and L. Daugherty.

Recorded May 8 1911

Harry S. Todd
 Deputy county surveyor,

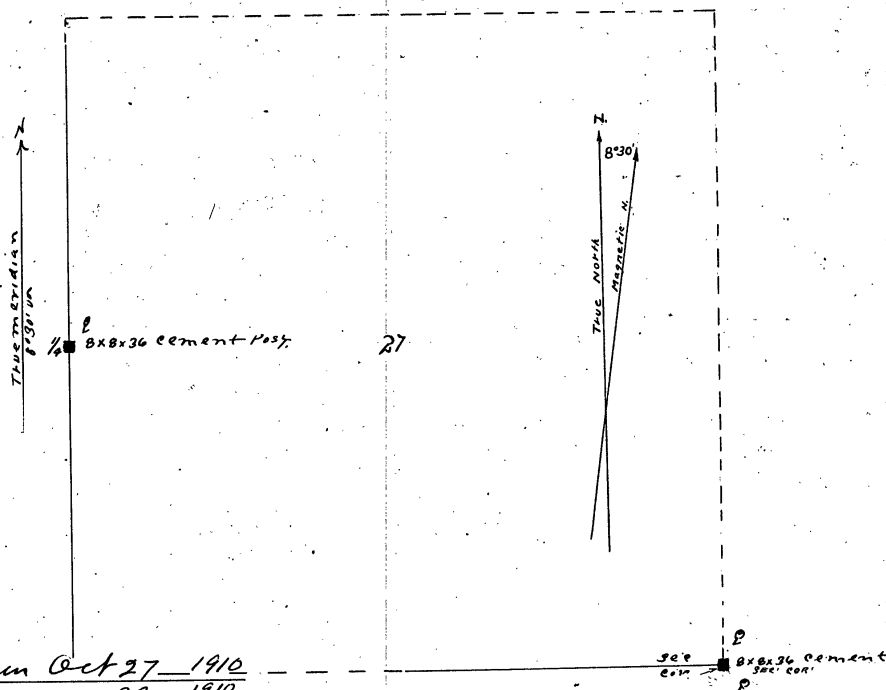
John W. Curo
 County Surveyor, Cass county, Minn.

A
PLAT OF

SEC. 27, T. 138 N., R. 32 W., 5th P.M.

Scale 900 feet = 1 inch

SURVEY RECORD No 55



Survey begun Oct 27 1910
 " ended " 29 1910
 Recorded May 8 1911

John W. Cull
 County Surveyor
 Co. Minn.

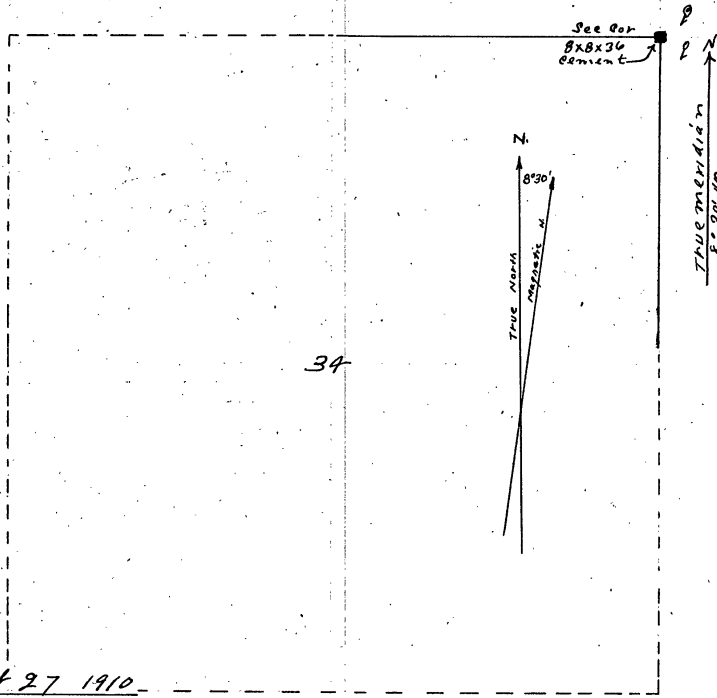
- PLAT -
 See Cont'd On Page This Book
 27 " " 417 " "

A
PLAT OF

SEC. 34, T. 138 N., R. 32 W. 5th P.M.

Scale 900 Feet = 1 inch

SURVEY RECORD 56.



Survey begun Oct 27 1910
" ended " 29 1910

Recorded May 8 1911

John W. Curo
County Surveyor
Corr Co Minn

PLAT
Sec Cont'd on Page Tail Book
34 " 411 "

A

Survey record No. 56. Sec. No. 34 Twp. No. 138 N. R 32 W. 5th P. M.

Field Notes of the survey of Section No. 34, Township No. 138 N. Range No. 32 W 5th Principal Meridian, as made by Harry S. Todd, deputy county surveyor of Cass county, Minnesota, and examined, approved and recorded by John W. Curo, county surveyor, Cass county, Minn.

Thursday, Oct. 27th, 1910. Harry S. Todd, transitman. Carl Nelson axman: Jess Watson, axman. Chas. Lewis, chainman: L. Daugherty, chainman and axman. We use a Keuffel & Esser transit and a 200 ft. Chicago steel tape: At the corner to sections 26, 27, 34 and 35, notes of Govt. survey call for a stake and the following bearing trees.

Norway pine 16 S 13 W 33 links,
 Norway pine 13, S 32 E. 21 links,
 Norway Pine 14, N 62½ E 28 links.
 Aspen 4 N 32 W, 18 links.

All the trees are gone except the southwest one which has been cut down but the stump stands plainly marked, and is positively identified by the axmen and chainmen as being the true old SW bearing tree stump: From this we set the true corner by placing a cement post 8x8x36 inches in size, its full length in the ground and run: North on 9° 15' var: at 839.85 ft set hub: at 1320 set temp. 1/16 post: at 2640 ft set temporary ¼ post: all Govt. bearing trees are gone: at 2741.20 set hub: at 3797 set hub: at 3960 hub: at 5280 set hub for temporary corner to sections 22, 23, 26, 27, all Govt. bearings are gone: Off set 35.55 ft east so as to run up the road and continue North at 189.24 set hub: at 1320 hub: at 2640 set hub for temp. ¼ post all Govt. marks are gone: at 2725.45 set hub: at 3589.90 set hub: at 3960 temp. 1/16 post: at 4366.50 set hub: at 5158.90 hub in road 40 ft. West of the true corner to Sec. 14, 15, 22, 23 at which point the Govt. notes call for

Black pine 10 N 50 E, 5 links,
 Black pine 4, S 57½ W 132 links.
 Black pine 3 N. 50 links.

We find the stump of the SW tree, standing plainly marked from which we set the true corner by placing an 8x8x36 inch cement post, firmly in the ground.

Oct. 29th, 1911. All work except Nelson. At ¼ corner between Secs. 27 and 28, Govt. notes call for Norway pine 29. S 71 E 140 links,
 Norway Pine 8, N 20 W 31 links.

We find the SE tree standing plainly marked from which we set an 8x8x36 inch cement post for the true ¼ corner between sections 27 and 28 T. 138 N. R. 32 W. 5th P. M.

Names of resident witnesses are: Jess Watson, Carl Nelson, Cha. Lewis and L. Daugherty.

Recorded May 8 1911

Harry S. Todd
 Deputy, county surveyor,

John W. Curo
 County surveyor, Cass Co., Minn.

-NOTES-	
See Cont'd on Page 120 of A	34
34	417

Survey record No. 57, Sec. No. 35 Twp. No. 138 N. R. 32 W. 5th P. M.

Field Notes of the survey of Section No. 35, Township No. 138 N. Range No. 32 W. 5th Principal Meridian, as made by Harry S. Todd, deputy county surveyor of Cass county, Minnesota, and examined, approved and recorded by John W. Curo, County surveyor, Cass County, Minn.

Thursday, Oct. 27th, 1910. Harry S. Todd, transitman, Carl Nelson axman, Jess Watson axman, Chas. Lewis, chairman, L. Daugherty, chairman and axman. We use a Keuffel & Esser, transit and a 200 ft. Chicago steel tape. At the corner of sections 26, 27, 34 and 35, notes of Govt. survey call for a stake and the following bearing trees:

Norway Pine 16 S 13 W 33 links,
Norway pine 13 S 32 E 21 links,
Norway Pine 14 N 62½ E 28 links,
Aspen 4, N 32 W 18 links.

All the trees are gone except the southwest one which has been cut down but the stump stands plainly marked, and is positively identified by the axmen and chairmen as being the true old SW bearing tree stump: From this we set the true corner by placing a cement post 8x8x36 inches in size, its full length in the ground, and run:

North on 9° 15' var:

At 839.85 ft. set hub: at 1320 set temporary 1/16 post: at 2640 ft set temporary 1/16 post: All Govt. bearing trees are gone: at 2741.20 set hub: at 3797 set hub: at 3960 hub at 5280 set hub for temporary corner to secs. 22, 23, 26, 27 all Govt. bearings are gone. Offset 35.55 ft. East so as to run up the road and continue North at 189.24 set hub: at 1320 hub: at 2640 set hub for temp. 1/16 post, all Govt. marks are gone: at 2725.45 set hub: at 3589.90 set hub: at 3960 temp 1/16 post: at 4366.50 set hub: at 5158.90 hub in road 40 ft. west of the true corner to Secs. 14, 15, 22, 23 at whichpoint the Govt. notes call for

Black pine 10 N 50 E 5 links,
Black pine 4 S 57½ W 132 links,
Black pine 3 N. 50 links.

We find the stump of the SW tree, standing plainly marked from which we set the true corner by placing an 8x8x36 inch cement post, firmly in the ground.

Oct. 29th, 1911, All work except Nelson. At 1/4 corner between Sections 27, and 28, Govt. notes call for Norway Pine 29 S 71 E 140 links.
Norway Pine 8, N 20 W 31 links.

We find the SE tree standing plainly marked from which we set an 8x8x36 inch cement post for the true 1/4 corner between Sections 27 and 28, T 136 N. R. 32 W. 5th P. M.

Names of resident witnesses are: Jess Watson, Carl Nelson, Chas. Lewis and L. Daugherty.

Recorded May 8 1911

John W. Curo
County surveyor, Cass county, Minnesota.

Harry S. Todd
Deputy, County Surveyor.

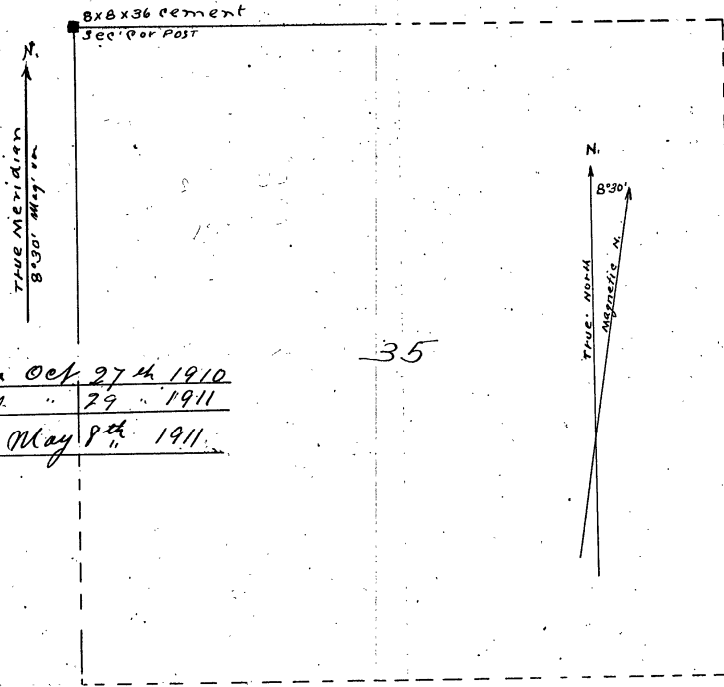
-NOTES-
Sec. Cent'd on Page This Book
35 " " 411 " "

A
PLAT OF

SEC. 35, T. 138 N., R. 32 W., 5th P.M.

Scale: 900 ft = 1 inch

SURVEY RECORD No 57



Survey begun	Oct 27 th	1910
" finished	" 29 "	1911
Recorded	May 8 th	" 1911

John W. Cress
County Surveyor Cass Co
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35 " " 411 " "

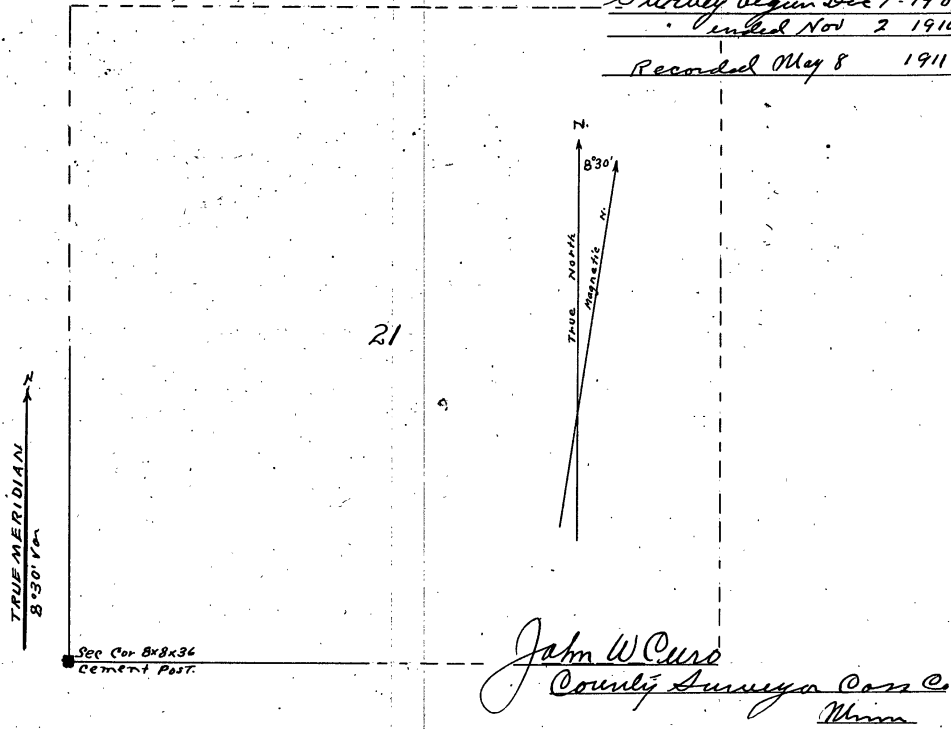
A
PLAT OF

SEC. 21, T. 138 N., R. 32 W. 5th P.M.

Scale 900 feet = 1 inch

SURVEY RECORD No 58

Survey begun Dec 7 - 1907
ended Nov 2 1910
Recorded May 8 1911



John W. Curo
County Surveyor Cass Co.
Missouri

-PLAT-
See Cont'd on Page of this Book
21 " 411 " " "

A

Survey record No. 58, Sec. No 21, T 138 N, Rge. 32 W. 5th P. M.

Field Notes of the survey of Section No. 21, Township No. 138 N. Range No. 32 W. 5th Principal Meridian, as made by Harry S. Todd, Deputy County Surveyor, Cass Co., Minn. and examined approved, and recorded by John W. Curo, County surveyor, Cass county, Minnesota.

Dec. 7th, 1907, John W. Curo, transitman. Jess Watson, chairman, K. & E. transit, 100 ft. steel tape.

At the corner to Sections 20, 21, 28, 29 T. 138 R. 32, being the SW corner of Section 21, Govt. notes call for a post and the following bearing trees:

Tamarac 8, S 55° W 43 links,
Tamarac 4, N 65° W 49 links,
Tamarac 7, N 47° E 29 links,
Tamarac 7, S 50° E 161 links,

the NW bearing tree is gone, and the others are all there, but are down, plainly marked, and by measuring from the center of the tree roots they do not check out for course or measurement.

We establish our corner by proportionate measurements and drive a solid oak plug for the true corner after which the location of the old tree centers stand as follows:

Tamarac 8, N 54, 45' E, 16.32 feet,
Tamarac 7, S 60 258 W, 24.20 feet,
Tamarac 7, S 44 10' E, 106.26 feet, with meridian at 8 magnetic variation.

Dec. 10th, 1907. Curo transitman, Jess Watson, Len Lewis, Chas. Lewis, Elmer Tibbitts, axmen and chainmen.

At the corner of Sections 17, 18, 19, 20 Govt. notes call for,

Black pine 11, S 9° W 29 links,
Norway Pine, 18 N 56½° E, 71 links,
Black Pine 14 S 52° E 90 links,
Black Pine 12, N 38° W 54 links.

We find the SE and the NW trees, and the roots of the SW and NE bearing trees, which check out perfect for course and measurement from which we set a wood corner post.

Oct. 29th, 1910. Harry S. Todd, transitman. L. Daugherty, J. Watson, C. Lewis, axmen and chainmen.

At the ¼ post between sections 27 and 28, Govt. notes call for

Norway Pine 29, S 71 E. 140 links.
Norway pine 8, N 20 W 31 links.

We find the SE B. T. standing plainly marked from which we set an 8x8x36 inch cement post for the true ¼ corner.

Nov. 1st, 1910. Todd, Lewis and Nelson. At the corner to Sections 17, 18, 19 and 20, we find the wood stake set by Curo, for the true corner from which the old Govt. bearing trees check out perfect for course and measurement.

Nov. 2nd, 1910. Todd, Nelson and Lewis, At the corner to Sec. 20, 21, 28, 29, we remove the "solid oak plug" set by Curo and put in its place an 8x8x36 inch cement post for the true corner.

Resident witnesses are: Chas. Lewis, J. Watson, L. Daugherty.

Recorded *M 24 8 - 1911*

Harry S. Todd
Deputy County surveyor.

John W. Curo
County Surveyor, Cass Co., Minn.

NOTES
See Cont'd On Page of this Book
21 " " 411

A

Survey record No. 59. Sec. No. 20. T 138 N. Rge. 32 W. 5th P. M.

Field Notes of the survey of Section No. 20, Township No. 138 N. Range No. 32 W. 5th Principal Meridian, as made by Harry S. Todd, deputy county surveyor, Cass county, Minn. and examined, approved and recorded by John W. Curo, county surveyor, Cass county, Minnesota.

Dec. 7th, 1907. John W. Curo, transitman. Jess Watson, chainman. K. & E. transit, 100 feet steel tape.

At the corner to Sections 20, 21, 28, 29 T. 138, R. 32, being the SE corner of Section 20, Govt. notes call for a post and the following bearing trees:

Tamarac 8, S 55 W. 43 links,
Tamarac 4, N 65 W. 49 links,
Tamarac 7, N 47 E, 29 links.
Tamarac 7, S 50 E, 161 links.

The NW bearing tree is gone, and the others are all there, but are down, plainly marked, and by measuring from the center of the tree roots they do not check out for course or measurement.

We establish our corner by proportionate measurements and drive a solid oak plug for the true corner after which the location of the old tree centers stand as follows:

Tamarac 8, N 54° 45' E 16.32 feet,
Tamarac 7, S 60° 25' W 24.20 feet.
Tamarac 7 S 44° 10' E, 106.26 feet.

with meridian at 8 magnetic variation.

Dec. 10th, 1907. Curo, transitman. Jess Watson, Len Lewis, Chas, Elmer Tibbitts, axmen and chainmen.

At the corner of Sections, 17, 18, 19, 20, Govt. notes call for:

Black pine 11, S 9 W 29 links,
Norway Pine 18 N 56 E 71 links,
Black pine 14 S 52 E 90 links,
Black pine 12 N 38 W 54 links.

We find the Se and the NW trees and the roots of the Sw and NE bearing trees which check out perfect for course and measurement, from which we set a wood corner post.

Oct. 29th, 1910, Harry S. Todd, transitman. L. Daugherty, J. Watson, C. Lewis, axmen and chainmen.

At the $\frac{1}{4}$ post between sections 27 and 28, Government notes call for

Norway Pine 29, S 71, E 140 links,
Norway pine 8, N 20, W, 31 links.

We find the Se bearing tree standing plainly marked from which we set an 8x8x36 inch cement post for the true $\frac{1}{4}$ corner.

Nov. 1st, 1910. Todd, Lewis and Nelson. At the corner to Sections 17, 18, 19, 20, We find the wood stake set by Curo for the true corner from which the old Govt. bearing trees check out perfect for course and measure. We remove the wood stake and place an 8x8x36 inch stone monument.

Nov. 2nd, 1910. Todd, Nelson, and Lewis, at the corner to Secs. 20, 21, 28, 29, we remove the "solid oak plug" set by Curo, and put in its place an 8x8x36 inch cement post for the true corner.

Resident witnesses are: Chas. Lewis, J. Watson, L. Daugherty.

Recorded *May 8 1911*
Harry S. Todd
Deputy, county surveyor.

John W. Curo
County surveyor, Cass county, Minn.

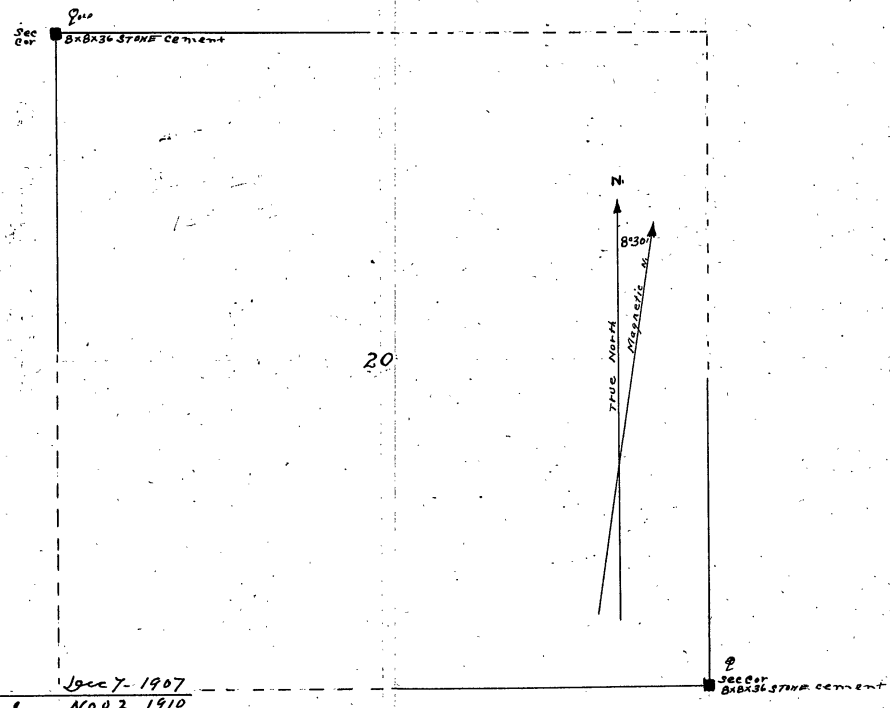
NOTES
See Cont'd to Page of this Book
20 " " 25 " " "

A
PLAT OF

SEC. 20, T. 138 N., R. 32 W. 5th PM.

scale 900 ft = 1 inch

SURVEY RECORD No 59



Survey begun Dec 7 - 1907
 " ended Nov 2 1910
 Recorded May 8 1911

John W. Curro
 County Surveyor Cass Co Minn.

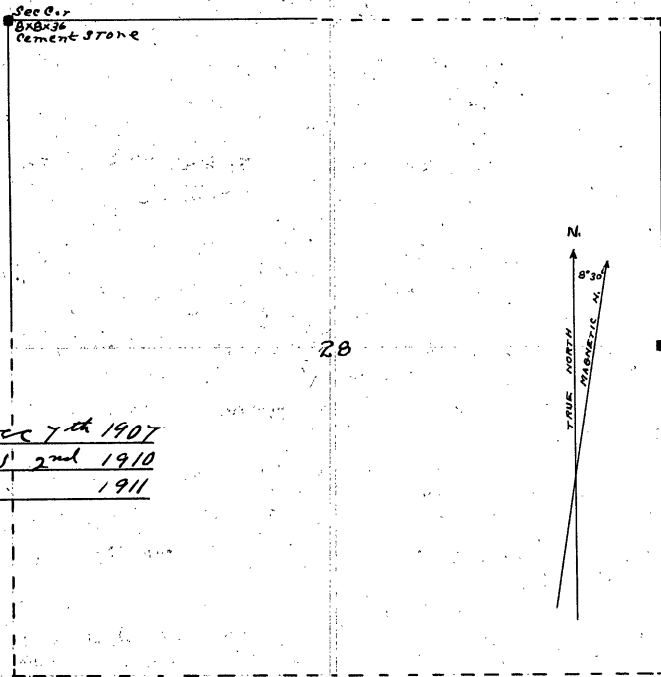
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 20 " 427 "

A
PLAT OF

SEC. 28, T. 138 N., R. 32 W. 5th P.M.

scale 900 ft = 1 inch

SURVEY RECORD NO 60.



Survey begun Dec 7th 1907
 ended Nov 2nd 1910
 Recorded May 8 1911

John W. Cress
 County Surveyor Cass Co Minn

See Cont'd On Page This Book
 28 411

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Survey record No. 60. Sec. No. 28, T. 138, N. R. 32 W. 5th P. M.

Field Notes of the survey of Section No. 28, Township No. 138 N Range No. 32 W. 5th Principal Meridian, as made by Harry S. Todd, deputy county surveyor, Cass county, Minn., and examined, approved and recorded by John W. Curo, county surveyor, Cass co., Minn,

Dec. 7th, 1907, John W. Curo, transitman, Jess Watson, chairman, K. & E. transit, 100 ft. steel tape.

At the corner to Sections 20, 21, 28, 29 T. 138 R. 32 being the NW corner of Section 28, Govt. notes call for a post and the following bearing trees SW

Tamarac 8, S 55, W 43 links,
Tamarac 4 N 65 W 49 links,
Tamarac 7, N 47 E 29 links,
Tamarac 7 S 50 E 161 links.

The NW bearing tree is gone, and the others are all there, but are down, plainly marked, and by measuring from the center of the tree roots they do not check out for course or measurement.

We establish our corner by proportionate measurements and drive a solid oak plug for the true corner after which the location of the old tree centers stand as follows:

Tamarac 8 N 54° 45' E. 16.32 feet,
Tamarac 7, S 60° 25' W 24.20 feet,
Tamarac 7, S 44° 10' E, 106.26 feet,

with meridian at 8° magnetic variation..

Dec. 10th, 1907. Curo transitman. Jess Watson, Len Lewi, Chas. Lewis, Elmer, Tibbetts, axmen and chairmen.

At the corner of Sections 17, 18, 19, 20, Govt. notes call for:

Black pine 11, S 9° W, 29 links,
Norway Pine 18, N 56½ E 71 links,
Black Pine 14, S 52½ E 90 links,
Black pine 12, N 38 W 54 links.

We find the SE and the NW trees and the roots of the SW and NE bearing trees which check out perfect for course and measurement from which we set a wood corner post.

Oct. 29th, 1910. Harry S. Todd, transitman. L. Daugherty, J. Watson, C. Lewis, axmen and chairmen.

At the ¼ post between sections 27 and 28. Govt. notes call for

Norway pine 29, S 71° E 140 links,
Norway pine 8, N 20½ W 31 links.

We find the SE bearing tree standing plainly marked from which we set an 8x8x36 inch cement post for the true ¼ corner.

Nov. 1st, 1910. At the corner to Sections 17, 18, 19, 20, we find the wood stake set by Curo for the true corner, from which the old Govt. bearing trees check out perfect for course and measure. We remove the wood stake and place an 8x8x36 inch stone monument.

Nov. 2nd, 1910. Todd, Nelson and Lewis, At the corner to Secs. 20, 21, 28, 29 we remove the solid oak plug set by Curo, and put in its place an 8x8x36 inch cement post for the true corner.

Resident witnesses are: Chas. Lewis, J. Watson, L. Daugherty.

Recorded May 8 1911

Harry S. Todd
Deputy county surveyor.

John W. Curo
County surveyor, Cass Co., Minn.

See Cont'd. on Page This Book
28 " 411 " "

Field Notes of the survey of Section No. 29 Township No. 138 N. Range No. 32 W. 5th principal meridian, as made by Harry S. Todd, deputy county surveyor, Cass Co., Minn., and examined, approved and recorded by John W. Curo, county surveyor, Cass co., Minn.

Dec. 7th, 1907. John W. Curo, transitman, Jess Watson, chairman. K & E transit, 100 ft steel tape.

At the corner to Secs. 20, 21, 28, 29, T. 138, R 32 being the NE corner of Section 29, Govt. notes call for a post and the following bearing trees.

Tamarac 8, S 55° W 43 links,
Tamarac 4 N 65° W 49 links,
Tamarac 7, N 47° E, 29 links,
Tamarac 7, S 50° E 161 links,

The NW bearing tree is gone, and the others are all there, but are down, plainly marked, and by measuring from the center of the tree roots they do not check out for course or measurement.

We establish our corner by proportionate measurements and drive a solid oak plug for the true corner after which the location of the old tree centers stand as follows:

Tamarac 8 N 54° 45' E, 16.32 feet,
Tamarac 7, S 60° 25' W, 24.20 feet,
Tamarac 7, S 44° 10' E, 106.26 feet.

with meridian at 8° magnetic variation.

Dec. 10th, 1907, Curo transitman, Jess Watson, Len Lewis, Chas. Lewis, Elmer Tibbitts, axmen and chairmen.

At the corner of Sections, 17, 18, 19, 20, Govt. notes call for:

Black pine 11, S 9° W 29 links,
N. Pine 18, N 56½° E 71 links,
Black pine 14, S 52° E, 90 links,
Black pine 12, N 38° W, 54 links.

We find the SE and the NW trees and the roots of the SW and NE bearing trees which check out perfect for course and measurement from which we set a wood corner post.

Oct. 29th, 1910. Harry S. Todd, transitman. L. Daugherty, J. Watson, C. Lewis, axmen and chairmen.

At the ¼ post between sections 27 and 28, Govt. notes call for

Norway Pine 29, S 71° E, 140 links,
Norway Pine 8, N 20° W, 31 links.

We find the SE bearing tree standing plainly marked from which we set an 8x8x36 inch cement post for the true ¼ corner.

Nov. 1st, 1910. At the corner to Sections 17, 18, 19, 20, we find the wood stake set by Curo, for the true corner, from which the old Govt. bearing trees check out perfect for course and measure. We remove the wood stake and place an 8x8x36 inch stone monument.

Nov. 2nd, 1910. Todd, Nelson and Lewis, At the corner to Sec. 20, 21, 28, 29, We remove the "solid oak plug" set by Curo, and put in its place an 8x8x36 inch cement post for the true corner.

Resident witnesses are: Chas. Lewis, J. Watson, L. Daugherty.

Recorded *May 8 1911*

Harry S. Todd
deputy county surveyor
Cass Co. Minn.

John W. Curo
County surveyor, Cass Co., Minn.

- NOTES -
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20 " 425 " " "

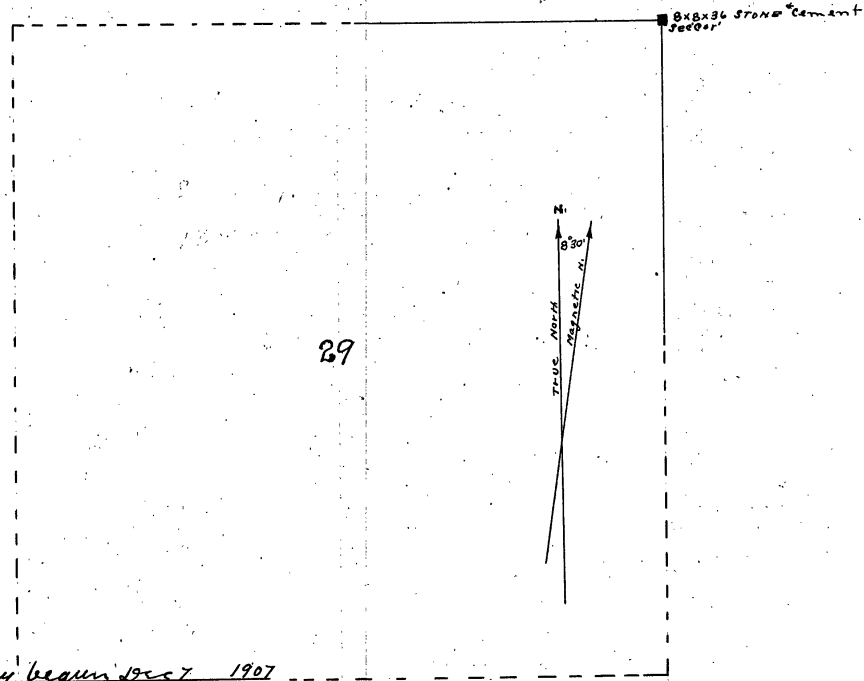
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PLAT OF

Scale: 900 feet = 1 inch

Sec 29 T 138^N R 32^W S 5^{PM}

SURVEY RECORD NO 61



Survey begun	Dec 7	1907
Field notes	2	1910
Recorded	May 8	1911

John W Curo
 County Surveyor Cass Co. Minn

- PLAT -
 See Cont'd To Page of This Book
 22 " 427 " " "

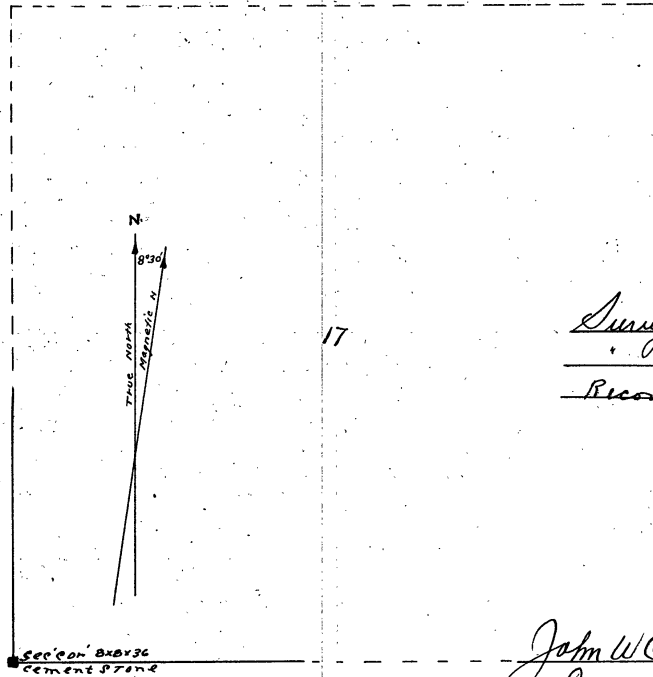
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PLAT OF

Sec 17. T 138^N R 32^W 5th P.M.

scale 900 feet = 1 inch

SURVEY RECORD NO 62



17

Survey begun 17th 10 1907
ended Nov 1st 1910
Recorded May 8 1911

John W. Curo
 County Surveyor Cass Co
 Minn

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See Cont'd to Page of this Book
17 " 412 " "

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Field Notes of the survey of Section No. 17, Township No. 138, W. Range 32 W. 5th Principal Meridian, as made by Harry S. Todd, deputy county surveyor, Cass county, Minnesota, and examined, approved and recorded by John W. Curo, county surveyor, of Cass county, Minn.

Dec. 10th, 1907. John W. Curo, transitman. Jess Watson, Len L. Lewis, Chas. Lewis, and Elmer Tibbitts axmen and chainmen. We use the following instruments: A Keuffel and Esser engineer's transit, and a 100 foot Chicago steel tape.

At the corner to Sections 17, 18, 19, and 20 being the SW corner to Section 17, the notes of the Gov. survey call for a post and the following bearing trees:

- Black pine 11, S 9° W, 29 links,
- Norway Pine 18, N 56½° E, 71 links,
- Black Pine 14, S 52° E. 90 links.
- Black Pine 12, N 38° W, 54 links.

We find the SE and the NW trees, and the roots of the SW and the NE bearing trees, which check out perfect for courses and measurement from which we set a wood post for the true section corner.

Dec. 11th, 1907. Same crew and instruments. At the corner to Sections 18 and 19, being the SW corner to Section 18, on the Westside of township 138 Range 32, Govt. notes call for a post and the following bearing trees.

- Tamarac 4 S 80° E, 18 links,
- Tamarac 4, N 37° E, 29 links,
- Tamarac 5, S 63° W, 40 links,
- Tamarac 6, N 40° W 15 links.

We find all of the old Govt. bearing trees, plainly marked, but they are down, and by careful calculation as to where they stood if staightened up, we set the true section corner and drove a wood stake. We found the old Govt. stake, plainly marked, and burned off at each end, lying within a few inches of where the true measurement come. All courses check out at 8 degrees magnetic variation, but the NE and SW trees seem to be 6 inches too far apart but by proportionate measurements we set the corner.

Nov. 1st, 1910. Harry S. Todd, transitman. Chas. Lewis and Carl Nelson, axman and chainmen. Going to the SW corner of Section 18, we pull up the wood stake, previously set by Curo for the true corner and put in its place an 8x8x36 inch cement post. The old Govt. trees are still there.

Then going a mile East to the corner of Sections 17, 18, 19 and 20, we pull up the wood stake and place an 8x8x36 inch stone post for the true SW corner of Section 17, Township 138 N. Range 32 W, the old Govt. bearing trees are still at this point.

Resident witnesses are Jess Watson, L. L. Lewis, E. Tibbitts.

Recorded May 8 1911

Harry S. Todd
Deputy, county surveyor, Cass. Co., Minn.

John W. Curo
County surveyor, Cass County, Minn.

-NOTES-
Sec Cont'd To Page of this Book
17 " 418 "

Field Notes of the survey of Section No. 18, Township No. 138, N., Range 32 W. 5th Principal Meridian, as made by Harry S. Todd, Deputy county surveyor, Cass county, Minnesota, and examined, approved, and recorded by John W. Curo, county surveyor, of Cass County, Minnesota.

Dec. 10th, 1907. John W. Curo, transitman. Jess Watson, Len L. Lewis, Chas. Lewis, and Elmer Tibbitts, axmen and chainmen. We use the following instruments: A Keuffel and Esser Engineers' transit, and a 100 foot Chicago steel tape.

At the corner to Sections 17, 18, 19 and 20, being the SE corner to Section 18, the notes of the Govt. survey call for a post and the following bearing trees:

Black Pine 11, S 9 W 29 links,
Norway Pine 18, N 56 E, 71 links,
Black Pine 14, S 52 E 90 links.
Black pine 12, N 38 W 54 links.

We find the SE and the NW trees, and the roots of the SW and the NE bearing trees, which check out perfect for courses and measurement from which we set a wood post for the true section corner.

Dec. 11th, 1907, same crew and instruments.

At the corner to Sections 18 and 19, being the SW corner to Section 18 on the West side of Township 138, Rge. 32, Govt. notes call for a post and the following bearing trees.

Tamarac 4, S 80 E. 18 links,
Tamarac 4 N 37 E. 29 links,
Tamarac 5, S 63 W. 40 links,
Tamarac 6 N 40 W 15 links.

We find all of the old Govt. bearing trees, plainly marked but they are down, and by careful calculation as to where they stood if straightened up, we set the true section corner and drove a wood stake. We found the old Govt. stake, plainly marked, and burned off at each end, laying within a few inches of where the true measurement come. All courses check out at 8 degrees magnetic variation, but the NE and SW trees seem to be 6 inches too far apart, but by proportionate measurements we set the corner.

Nov. 1st, 1910. Harry S. Todd, transitman. Chas. Lewis, and Carl Nelson, axmen and chainmen. Going to the SW corner of Section 18, we pull up the wood stake previously set by Curo for the true corner, and put in its place an 8x8x36 inch cement post. The old Govt. trees are still there.

Then going a mile East to the corner of Sections 17, 18, 19, and 20, we pull up the wood stake and place an 8x8x36 inch stone post for the true SE corner of Section 18, Township 138 N. Rge. 32 W. the old Govt. bearing trees are still at this point.

Resident witnesses are: Jess Watson, L. L. Lewis, E. Tibbitts.

Recorded May 8 1911

Harry S. Todd
Deputy, County Surveyor,

John W. Curo
County surveyor, Cass Co., Minn.

- NOTES -
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18 418

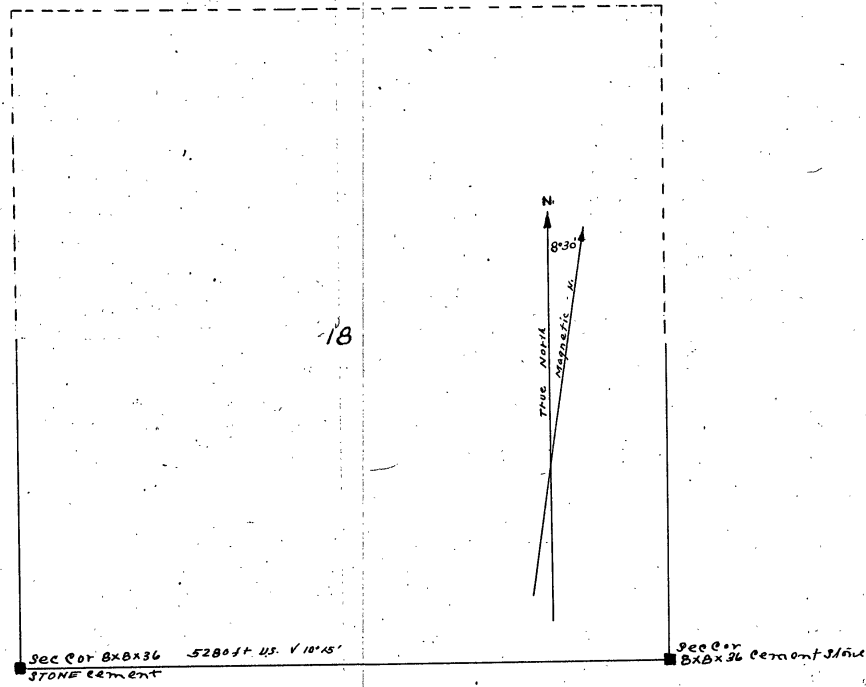
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PLAT OF

Sec 18 T138N R32W SPM

Scale 900 feet = 1 inch

SURVEY RECORD No 63.



Survey begun Dec 10 1907
 ended Nov 1st 1910
 Recorded May 8 1911

John W. Cress
 County Surveyor Cass Co. Minn.

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Sec	Cont'd	To	Page
18	"	419	" " "

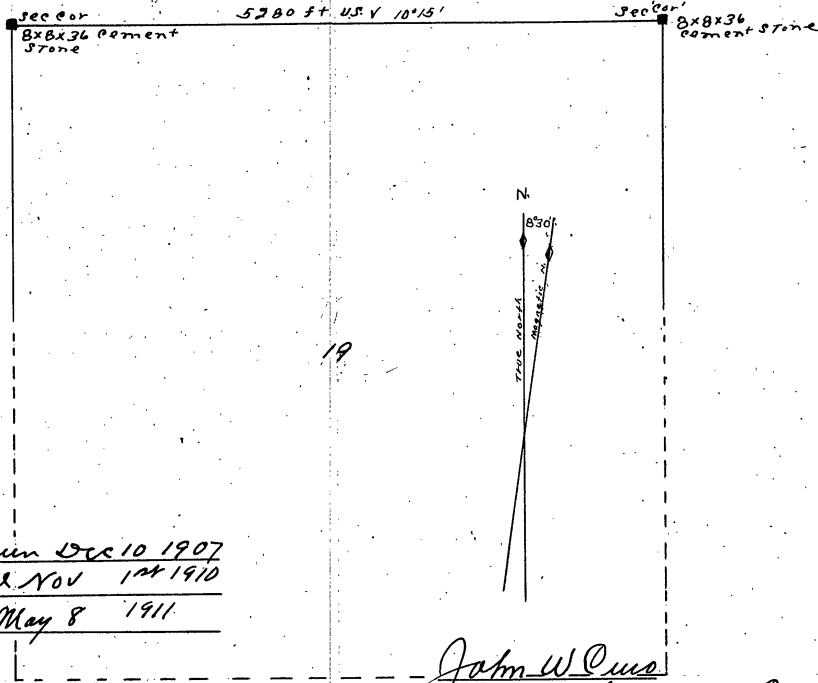
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PLAT OF

Sec 19, T 138 N R 32 W 5 PM

scale 900 feet = 1 inch

SURVEY RECORD NO 64



Survey begun Dec 10 1907
" ended NOV 1st 1910
Recorded May 8 1911

John W. Ows
County Surveyor Cass Co Minn.

PLAT
See Cent'd to Page of this Book
72 " 427 "

Field Notes of the survey of Section No. 19, Township No. 138 N. Range 32 W. 5th Principal Meridian as made by Harry S. Todd, deputy county surveyor, Cass county, Minnesota, and examined, approved and recorded by John W. Curo, county surveyor of Cass county, Minnesota.

Dec. 10th, 1907, John W. Curo, transitman. Jess Watson, Len L. Lewis, Chas. Lewis, and Elmer Tibbitts, axmen and chainmen: We use the following instruments: A Keuffel and Esser Engineers' transit, and a 100 foot Chicago steel tape.

At the corner to Sections 17, 18, 19 and 20, being the NE corner to Section 19, the notes of the Govt. survey call for a post and the following bearing trees:

Black Pine 11, S 9 W 29 links,
Norway Pine 18, N 56 $\frac{1}{2}$ E 71 links,
Black Pine 41, S 52 E 90 links,
Black Pine 12, N 38 W 54 links.

We find the SE and the NW trees, and the roots of the SW and the NE bearing trees, which check out perfect of courses and measurement from which we set a wood post for the true section corner.

Dec. 11th, 1907. Same crew and instruments. At the corner to Sections 18 and 19, being the NW corner to Section 19, on the west side of township 138, Range 32 Govt. notes call for a post and the following bearing trees.

Tamarac 4, S 80 E, 18 links,
Tamarac 4, N 37 E, 29 links,
Tamarac 5 S 63 W 40 links,
Tamarac 6 N 40 W 15 links.

We find all of the old Govt. bearing trees, plainly marked, but they are down, and by careful calculation as to where they stood, if straightened up, we set the true section corner and drove a wood stake. We found the old Govt. stake, plainly marked, and burned off at each end, laying within a few inches of where the true measurement come. All courses check out at 8 degrees magnetic variation, but the NE and SW trees seem to be 6 inches too far apart but by proportionate measurements we set the corner.

Nov. 1st, 1910. Harry S. Todd, transitman. Chas. Lewis, and Carl Nelson. Axmen and chainmen. Going to the NW corner of Section 19, we pull up the wood stake previously set by Curo, for the true corner and put in its place a 8x8x36 inch cement post. The old Govt. trees are still there.

Then going a mile East to the corner of Sections 17, 18, 19 and 20, we pull up the wood stake and place an 8x8x36 inch stone post for the true NE corner of Section 19, Township 138 N. Range 32 W. the old Govt. bearing trees are still at this point.

Resident witnesses are Jess Watson, L. L. Lewis, E. Tibbitts.

Recorded May 8 1911
Harry S. Todd
Deputy county surveyor.

John W. Curo
County surveyor, Cass Co., Minn.

NOTES	
Sec Cont'd To Page of This Book	
10	25

Survey record No. 65, Sec. No. 33, Twp. 140 N. R. No. 30 W. 5th P. M.

Field Notes of the survey of Section 33, Township No. 140 N. Range No. 30 W. 5th Principal Meridian, as made by John W. Curo, county surveyor, Cass county, Minnesota.

Nov 26 1907 Silas Manley and Francis Manley chairmen and axmen:
we use the following instruments: A Keuffel and Esser Engineer's transit,
and a 100 foot Chic go steel tape.

At the corner to Sections 32 and 33 on the south side of Twp 140 Rge 30 being the SW corner of Section 33, the notes of the original Govt. survey all for a post and the following bearing trees.

Black Pine 4, N 66° E, 52 links,
Black pine 4, N 44° W, 65 links,
Black pine 4, S 69° W, 28 links,
Black pine 4, S 30° E, 35 links,

We find all of the bearing trees standing, plainly marked from which we set an 8x8x36 in cement monument well into the ground, for the SW corner of Section 33, Township 140 Range 30, after which the old Govt. bearing trees stand correct for courses and measurements as called for in the original Government field notes.

The names of resident witnesses are: Silas Manley, James Manley, Clint Woodruff, John Stillwell.

Recorded May 8 1911

John W. Curo
County surveyor, Cass co., Minn.

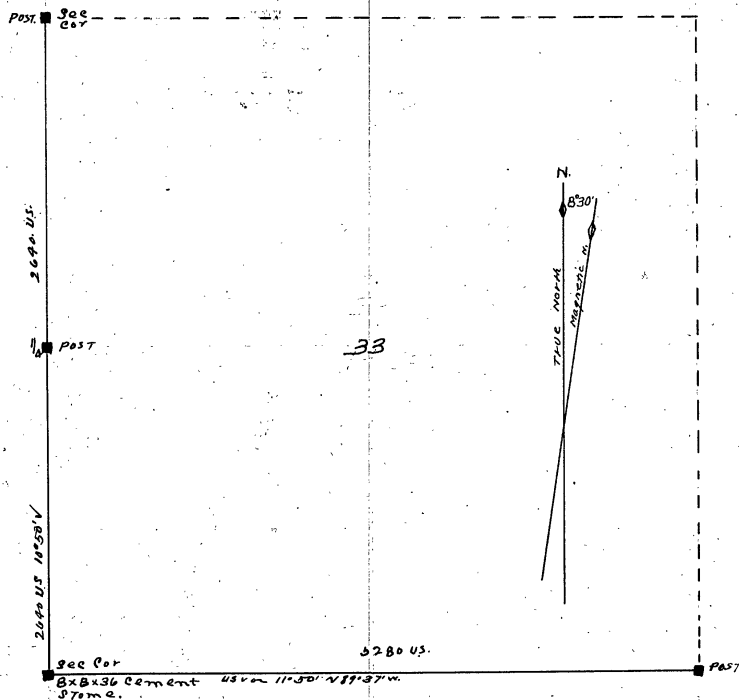
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PLAT OF

Sec 33 T 140^N R 30 W 5 PM

Scale 900 feet = 1 inch

SURVEY RECORD NO 65



Survey begun Nov 26-1907
 ended " 24 1907
 Recorded May 8 1911

John W. Cullis
 County Surveyor Cor. Co. Minn.

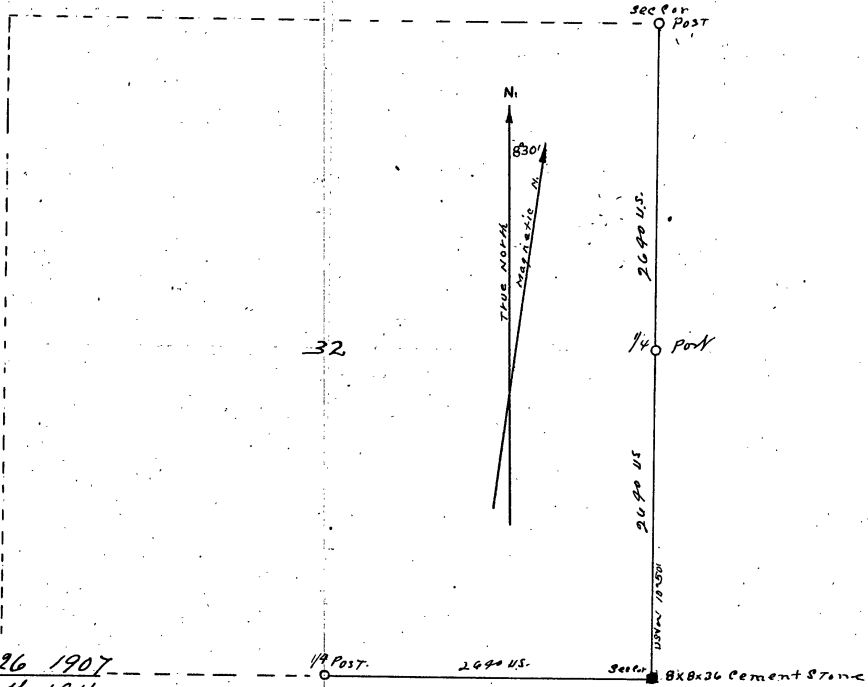
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PLAT OF

Sec 32 T140N R50W S22

Scale 6 inches = 1 mile

SURVEY RECORD NO 66.



Surveyed Nov 26 1907
Recorded May 8th 1911

John W. C. ...
County Surveyor Commission

A

Survey record Nel 66, Sec. No. 32 Twp. 140 N. R. No. 30 W, 5th P. M.

Field Notes of the survey of Section No. 32 Township No. 140 N. Range No. 30, W. 5th Principal Meridian, as made by John W. Curo, County surveyor of Cass county Minnesota.

Nov 26 1907 Silas Manley and Francis Manley, chainmen and axmen:
We use the following instruments: A Keuffel and Esser Engineers' transit and a 100 foot Chicago steel tape.

At the corner to Sections 32 and 33, on the south of Twp. 140 Rge. 30, being the SE corner of Section 32 the notes of the original Govt. survey call for a post and the following bearing trees.

Black pine 4, N. 66° E, 52 links,
Black pine 4, N 44° W, 65 links,
Black pine 4, S 69° W, 28 links.
Black pine 4, S 30° E, 35 links.

We find all of the bearing trees standing plainly marked from which we set an 8x8x36 inch cement monument well into the ground, for the true SE corner of Section 32, Township 140 Range 30 after which the old Govt. bearing trees stand correct for courses and measurements as called for in the original Government field notes.

The names of resident witnesses are: Silas Manley, James Manley, Clint Woodruff, John Stilwell:

Recorded May 8 1911

John W. Curo
County surveyor, Cass Co., Minn.

Field Notes of the survey of Section No. 4, Township No. 139 N. Range No. 30, W. 5th Principal Meridian, as made by John W. Curo, County surveyor, Cass county, Minnesota.

Nov 26 1907 Silas Manley and Francis Manley, chairmen and axmen.
We use a Keuffel and Esser transit and a 100 foot Chicago steel tape. At the NW corner of Section 4, T. 139 N. 30 Govt. notes call for:

Black Pine 4, N. 66 E. 52 links,
Black pine 4, N. 44 W. 65 links,
Black pine 4, S. 69 W. 28 links,
Black pine 4, S. 30, E. 35 links.

We find all the bearing trees standing plainly marked from which we set an 8x8x36 inch cement post for the true NW corner of Section 4. At the $\frac{1}{4}$ corner between Sections 4 and 5 Govt. notes call for

Norway pine 12, N. 82 E. 23 links,
Norway pine 18, N 52 W. 60 links.

We find both bearing trees standing plainly marked from which we set an 8x8x36 inch cement stone monument for the true $\frac{1}{4}$ corner on the West side of Section 4.

At the corner to Sections 4, 5, 8, 9, Govt. notes call for:

Birch 6, N. 34 E. 36 links,
Birch 5, N 78 W. 22 links,
Birch 4 S, 64 E. 69 links,
Black pine 5 S 46 $\frac{1}{2}$ W, 100 links.

We find the old Govt. bearing trees from which we set an 8x8x36 inch cement post for the true SW corner to Section 4.

Nov 29 1907 same crew working. At the $\frac{1}{4}$ corner between sections 8 and 9, Govt. notes call for

Black Pine 4, S 71 E. 40 links,
Black pine 6, S 88 W 330 links.

We find the southeast bearing tree standing plainly marked from which we set an 8x8x36 inch cement post for the true $\frac{1}{4}$ corner of the West side of Section 9, the SW tree is gone.

At the corner to Sections 8, 9, 16, 17. Govt. notes call for

Norway 24, N 75 W. 324 links,
Black pine 15, S 40 W. 433 links,
Norway 20 N 21 E, 1282 links.

The northeast tree is gone, but from the Northwest and southwest old Govt. bearing trees, we set an 8x8x36 inch cement post for the true SW corner to Section 9.

At the $\frac{1}{4}$ corner between Sections 8 and 17, Govt. notes call for:

Black pine 7, N 5 E 43 links.

We find the tree and set an 8x8x36 inch cement post for the true $\frac{1}{4}$ corner on the North side of Section 17.

At the corner to Sections 7, 8, 17, 18. Govt. notes call for:

Norway 10 N 19 E, 8 links,
Norway 12, N 58 W. 22 links,
Norway 12, N 25 E, 15 links,
Norway 12, S 68 W. 21 links.

We find all the trees and set an 8x8x36 inch cement post for the true SE corner to Section 7.

The names of resident witnesses are: Jas. Manley, Chas. Stoecker, Silas Manley.

Recorded May 8 1911

John W. Curo
County surveyor, Cass co., Minn.

Notes: Continued on page 373 to 377. this book.
Plat: " " " 376

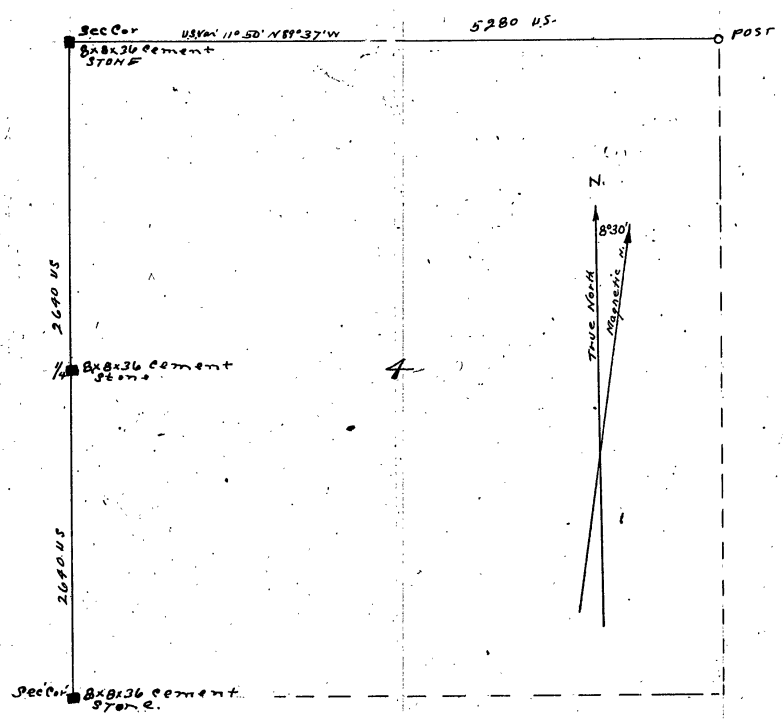
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PLAT OF

Sec 4 T 139 N R 30 W 5 PM.

scale 6 inches to the mile

SURVEY RECORD No 67



Survey begun Nov 26 1907
 finished Nov 29 "
 Recorded May 8 1911

John W Cuss
 County Surveyor Com C. Minn

Plat continued on page 376 this book

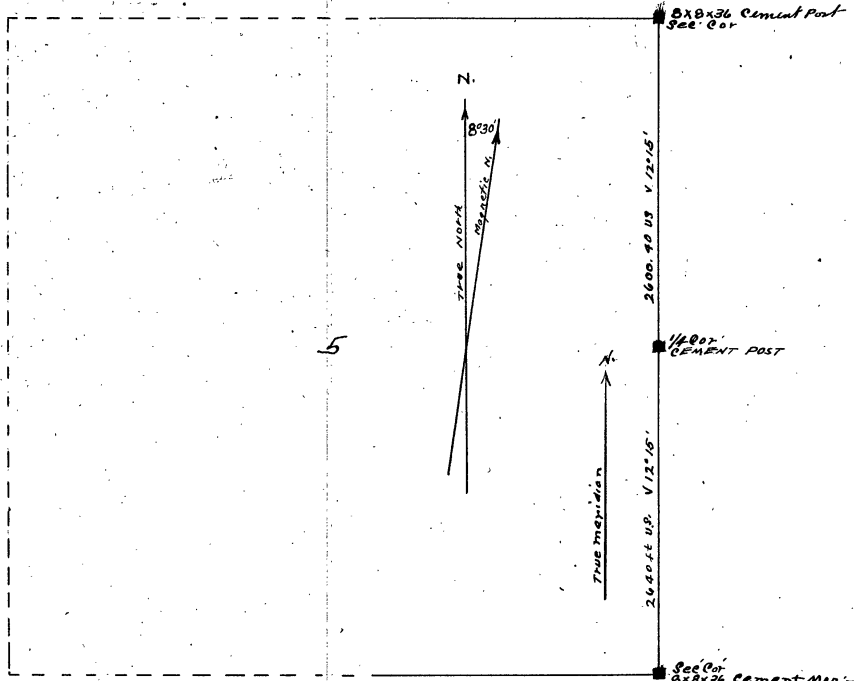
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PLAT OF

SEC 5 T 139 N R 30 W S PM

Scale inches to one mile

SURVEY RECORD No 68.



Survey begun Nov 26 1907
finished " 29 "

Recorded May 8th 1911

John W. Cline County Surveyor Cass & Miller

Plot continued on page 376 this book

Field Notes of the survey of Section No 5, Township No 139N, Range No. 30 W, 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass County Minnesota

Nov 26 1907 Silas Manley, and Francis Manley, chainmen and axmen.
We use a Keuffel and Esser transit and a 100 ft chain Chicago steel tape. At the NE cor of of section 5 T 139 R 30, Gov't notes call for: Black Pine 4, N 66 E, 52. links. Black pine 4. N 44 W, 65. links. Black pine 4. S 69 W, 28. links. Black pine 4. S 30 E, 35 links we find all the bearing trees standing plainly marked from which we set an 8x8x36 inch cement post for the true NE corner of section 5.

At the 1/4 corner between Sections 4. and 5. Government notes call for Norway pine 12, N 82 E, 23. links. Norway pine 18, N 52 W, 60. links.

We find both bearing trees standing plainly marked from which we set an 8x8x36 inch ^{cement} stone monument for the true 1/4 corner on the East side of section 5.

At the corner to sections 4, 5, 8, 9, Gov't notes call for: Birch 6, N 34 E, 36 links. Birch 5, N 78 W, 22 links. Birch 4 8 64 E, 69. links. Black pine 5, S 46 1/2 W, 100. links. We find the old Gov't bearing trees from which we set an 8x8x36 inch cement post for the true SE corner to Section 5.

Nov 29 1907 same crew working.

At the 1/4 corner between sections 8, & 9. Gov't notes call for Black Pine 4, S 71 E, 40 links. Black pine 6, S 88 W, 330. links. We find the Southeast bearing tree standing plainly marked from which we set an 8x8x36 inch Cement post for the true 1/4 corner of the ^{East} side of Section 8. the S.W. tree is gone.

At the corner to sections 8, 9, 16, 17, Gov't notes call for Norway 24, N 75 W, 324. links. Black pine 15, S 40 W, 433. links. Norway 20, N 21 E, 1282. links. the Northeast tree is gone, but from the Northwest and South west old Gov't bearing trees we set an 8x8x36 inch cement post for the true S E corner to section 8.

At the 1/4 corner between Sections 8. and 17, Gov't notes call for: Black pine 7, N 5 E, 43 links. We find the tree and set an 8x8x36 inch cement post for the true 1/4 corner on the N side of section 17

At the corner to sections 7. 8. 17. 18. Gov't notes call for: Norway 10 N 19 E 8 lks. Norway 12, N 58 W, 22 links. Norway 12, N 25 E 15. links. Norway 12, S 68 W. 21 links.

We find all the trees and set an 8x8x36 inch cement post for the true ESE corner to section 7. The name of resident witnesses are, Jas Manley, Chas Stoecker, Silas Manley.

Recorded May 8 1911

John W Curo
County Surveyor Cass Co, Minn.

Notes continued on page 373 to 377 this book

Field Notes of the survey of Section No 8, Township No 139 N. Range No. 30 W, 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass County Minnesota.

Nov 26 1907 Silas Manley, and Francis Manley, chainmen and axmen.

We use a Keuffel and Esser transit and a 100. foot Chicago steel tape: At the NW corner of Section 4 T 139 R 30, Gov't notes call for: Black Pine 4 N 66 E, 52. links. Black pine 4, N 44 W, 65. links: Black pine 4, S 69 W, 28. links. Black pine 4, S 30 E, 35 links we find all the bearing trees standing plainly marked from which we set an 8x8x36 inch cement post for the true NW corner of section 4.

At the 1/4 corner between Sections 4. and 5. Government notes call for Norway pine 12, N 82 E, 23 links. Norway pine 18. N. 52 W, 60 links.

We find both bearing trees standing plainly marked from which we set an 8x8x36 inch stone monument for the true 1/4 corner on the West side of section 4.

At the corner to sections 4, 5, 8, 9, Gov't notes call for: Birch 6, N 34 E 36 links. Birch 5, N 78 W, 22 links. Birch 4 S 64 E, 69. links. Black pine 5 S 46. 1/2 W, 100 links, We find the old Gov't bearing trees from which we set an 8x8x36 inch cement post for the true NE corner to section 8 *Nov 29* 1907 same crew working.

At the 1/4 corner between sections 8. & 9. Gov't notes call for Black Pine 4, S 71 E, 40 links. Black pine 6, S 88 W, 330. links. We find the Southeast bearing tree standing plainly marked from which we set an 8x8x36 inch Cement post for a true 1/4 corner of the East side of Section 8 the SW tree is gone.

At the corner of sections 8, 9, 16. 17. Gov't notes call for Norway 24, N 75 W, 324. links. Black pine 15, S 40 W, 433. links. Norway 20, N 21 E, 1282. links. the Northeast tree is gone but from the Northwest and Southwest old Gov't bearing trees we set an 8x8x36 inch cement post for the true SE corner of section 8.

At the 1/4 corner between Sections 8. and 17, Gov't notes call for: Black pine 7, N 5 E, 43 links. We find the tree and set an 8x8x36 inch cement post for the true 1/4 corner on the South side of section 8

At the corner to sections 7. 8. 17. 18. Gov't notes call for Norway 10 N 19 E, 8. lks Norway 12. N 58 W, 22 links. Norway 12 . N. 25 E, 15 links. Norway 12, S 68 W, 21 links.

We find all the trees and set an 8x8x36 inch cement post for the true S.W. corner to section 8 The name of resident witnesses are, Jas Manley, Chas Stoecker, Silas Manley.

Recorded *May 11th 1911*

John W Curo
County Surveyor Cass Co, Minn.

Notes
Plat

Continued on pages 373 to 377 this book
" " page 376 of this book

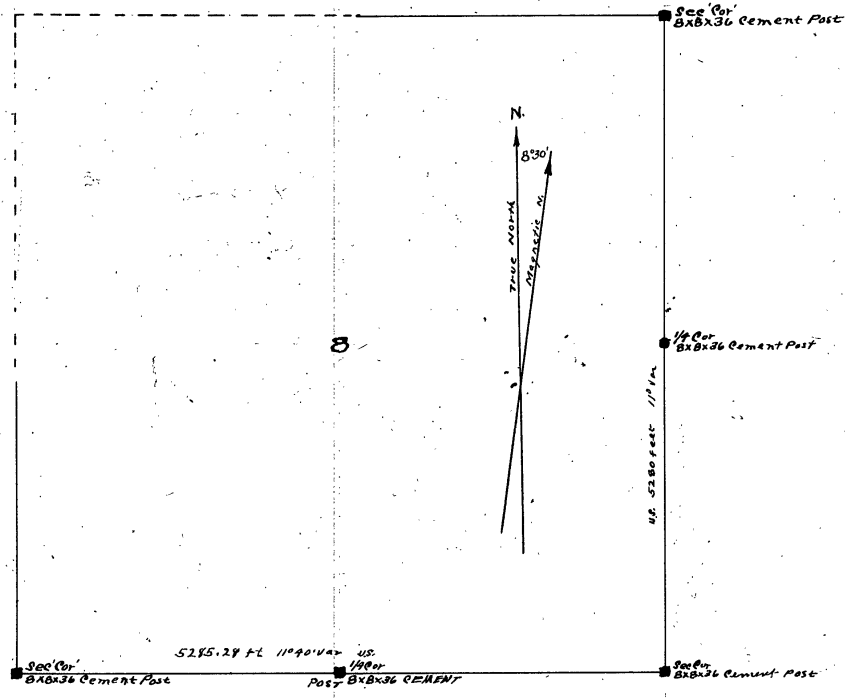
A

PLAT OF

Sec 8 T139N R30W 5th P.M.

Scale 6 inches = one mile

SURVEY RECORD No 69.



Survey begun Nov 26th 1907
 finished " " " "
 Rec'd and May 11th 1911 " 29 " "
 John W. Curo County Surveyor Cass Co. Minn

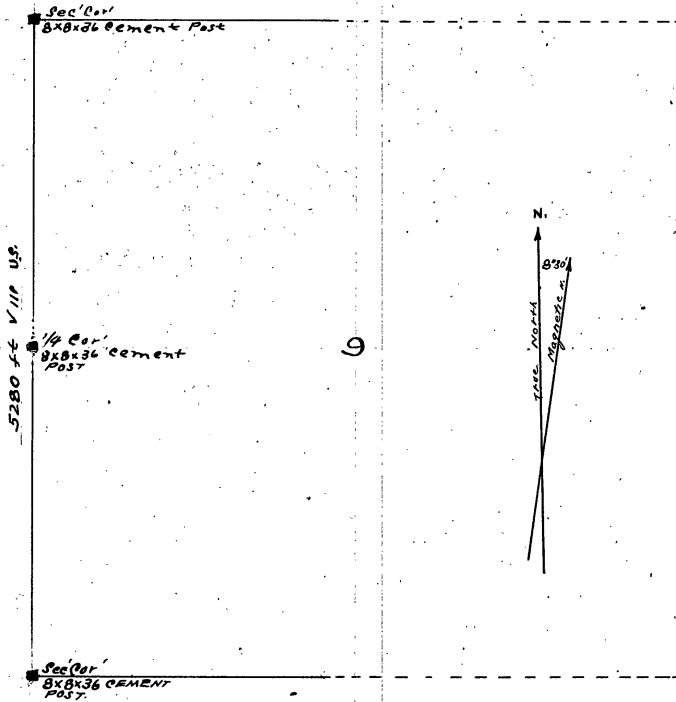
Plat continued on page 376 of this book

A
PLAT OF

SEC 9, T. 139N., R. 30W., 5TH P.M.

Scale 6 inches = 1 mile

SURVEY RECORD N^o 70.



Survey begun	Nov 26	1907
finished	" 29	"
Recorded	May 11	1911

John W. Curo County Surveyor Cass Co. Mo.

Plat continued on page 376 of this book

Field Notes of the survey of Section No 9, Township No 139 N. Range No 30 W. 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass County, Minnesota.

Nov 26 1907 Silas Manley and Francis Manley chainmen and axmen.
We use a Kauffel and Esser Transit and a 100 ft Chicago Steel tape. At the NW Corner of Section 4 T. 139 R 30 Gov't notes call for, Black Pine 4, N; 66 E 52 Links Black Pine 4, S 30 E 35 links we find all of the bearing trees standing plainly marked from which we set an 8x8x36 cement post for the true NW corner of section 4.
At the 1/4 corner between section 4 and 5 Government notes calls for Norway pine 12, N 82 E 23 links Norway Pine 18 N 52 W 60 links,
We find both bearing standing plainly marked from which we set an 8x8x36 inch stone monument for the true 1/4th corner on the west side of section four.
At the corner to sections 4,5,8,9, Gov't notes call for: Birch 6 N 34 E 36 links, Birch 5 N 78 W 22 links, Birch 4 S 64 E 69 links, Black Pine 5 S 46 1/2 W 100 links. We find the old Gov't bearing trees from which we set an 8x8x36 inch cement post for the true NW corner to section 9.

Nov 29 1907 same crew working-
At the 1/4 corner between sections 8 and 9 Gov't notes call for Black Pine 4 S 71 E 40 links Black Pine 6 S 88 W 330 links. We find the southeast bearing trees standing plainly marked from which we set an 8x8x36 inch cement post for the true 1/4 corner of the west side of section 9 the SW tree is gone.
At the corner of sections 8, 9, 16 17, Gov't notes call for Norway 24 N 75 W 324 links, Black Pine 15 S 40 W 433 links Norway 20 N 21 E 1252 links, The northeast tree is gone but from the northwest and southwest old government bearing trees we set an 8x8x36 inch cement post for the true SW corner to section 9.
At the 1/4 corner between sections 8 and 17 Gov't notes call for: Black Pine 7 N 5 E 45 links We find the tree and set an 8x8x36 inch cement post for the true 1/4 corner on the southside of section 8.
At the corner to sections 7,8,17,18, Gov't notes call for- Norway 10 N 10 E 8 links, Norway 12 N 58 W 22 links Norway 12 N 25 E 15 links Norway 12 S 68 W 21 links.
We find all the trees and set an 8x8x36 inch cement post for the true SE corner to section 7.
The name of resident witnesses are, Jas Manley, Chas Stoecker, Silas Manley.
Recorded May 11th, 1911

John W. Curo
County Surveyor of Cass County, Minn.

Notes continued on page 373 to 377 of this book

Field Notes of the survey of Section No 7 Township No 139 N., Range No 30 W 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County, Minnesota.

Nov 26 1907 Silas Manley and Francis Manley, chairmen and axman.

We use a Kuffel and Esser transit and a 100 foot Chicago steel tape. At the NE corner of section 5 Twp 139 R. 30 Gov't notes call for: Black Pine 4 N 66 E 52 Links Black Pine 4 N 44 W., 65 links Black Pine 4 S 69 W 28 links. Black Pine 4 S 30 E 35 links. We find all the bearing trees standing plainly marked from which we set an 8x8x36 inch cement post for the true NE corner of Section 5. At the 1/4th corner between sections 4 and 5 Government notes call for Norway Pine 12 N 82 E 23 links Norway Pine 18 N 52 W 60 links.

We find both bearing trees standing plainly marked from which we set an 8x8x36 inch stone monument for the true 1/4th corner on the east side of section 5.

At the corner of sections 4, 5, 8, 9, Gov't notes call for Birch N 34 E 36 links, Birch 5 N 78 W 22 links. Birch 4 S 64 E 69 links Black Pine 5 S 46 W 100 links. We find the old Gov't bearing trees from which we set an 8x8x36 inch cement post for the true NE corner of section 8.

Nov 29 1907 same crew working.

At the 1/4 corner between sections 8 and 9 Gov't notes call for Black Pine 4 S 71 E 40 links Black Pine 6 S 88 W 330 links.

We find the southeast bearing trees standing plainly marked from which we set an 8x8x36 inch cement post for the true 1/4 corner of the east side of Section 8. The S W tree is gone.

At the corner to sections 8, 9, 16, 17, Gov't notes call for Norway 24 N 75 W 324 Links, Black Pine 15 S 40 W 433 links Norway 20 N 21 E 1282 links. The northeast tree is gone but from the Northwest and southwest Old Gov't bearing trees we set an 8x8x36 inch cement post for the true SE corner to section 8.

At the 1/4th corner between Sections 8 and 17 Gov't notes call for Black Pine 7 N 5 E 43 Links. We find the tree and set an 8x8x36 inch cement post for the true 1/4 corner on the south side of section 8.

At the corner to sections 7, 8, 17, 18 Gov't notes call for Norway 10 N 19 E 8 links. Norway 12 N 58 W 22 links. Norway 12 N 25 E 15 links. Norway 12 S 68 W 21 links.

We find all of the trees and set an 8x8x36 inch cement post for the true SE corner to section 7.

The name of resident witnesses are Jas Manley, Chas Stoecker, Silas Manley.

Recorded Jan 2 1911

John W. Curo
County Surveyor, Cass County, Minn.

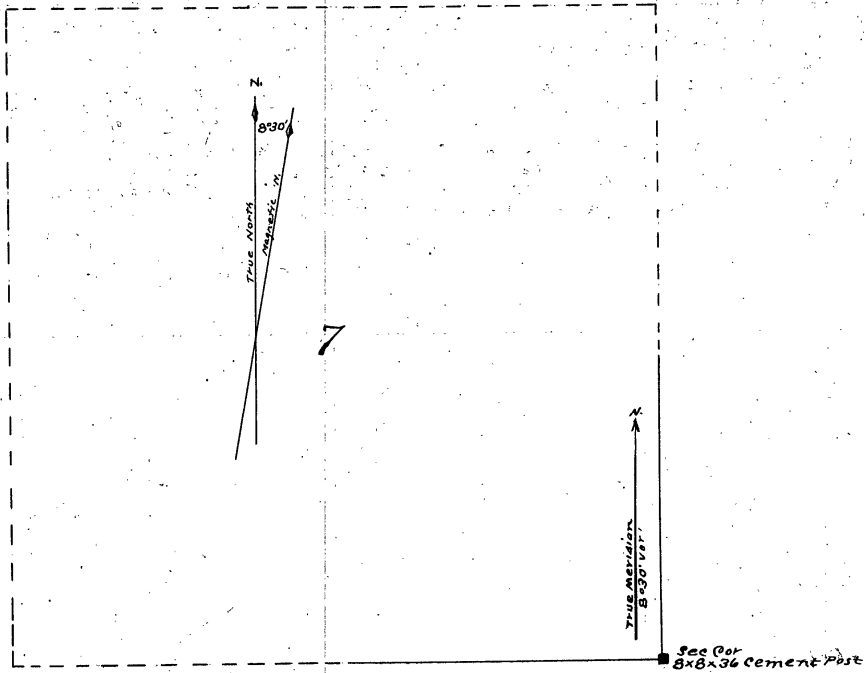
A

PLAT OF

SEC 7 T.139 N. R.30 W. 5th P.M.

Scale 6 inches = 1 mile

SURVEY RECORD No 71



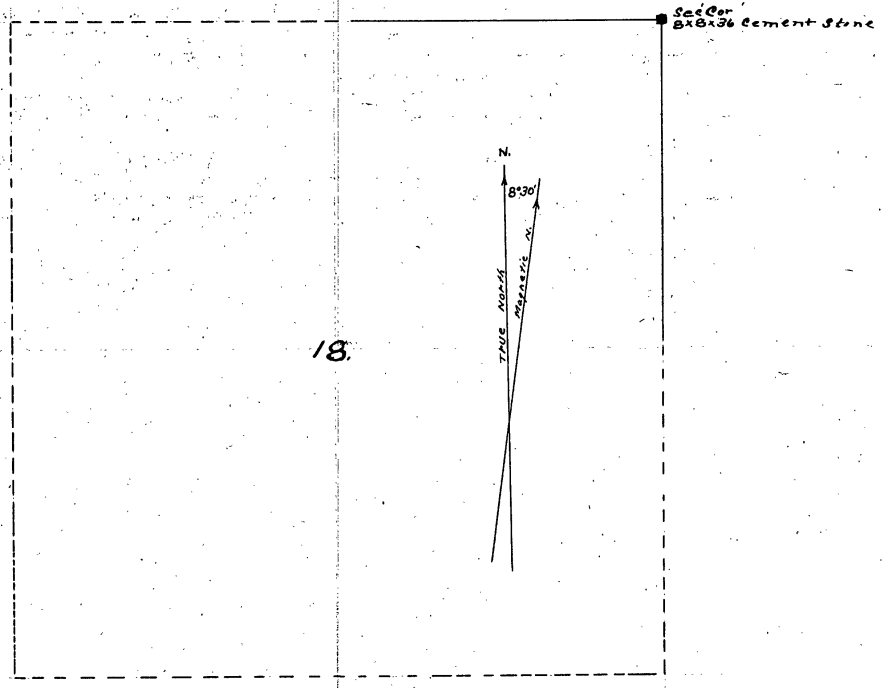
Survey begun Nov 26 1907
 finished 29
 Recorded June 1st 1911
John W. Cass County Surveyors Cass Co Minn

PLAT OF

SEC 18, T 139 N, R 30 W, 54 PM.

Scale 6" = 1 mile

SURVEY RECORD No. 72



18

Survey begun	Nov 26 1907
finished	" 29 "
Recorded	June 1st 1911
John W. Ellis County Surveyor Cass Co. Minn.	

Field Notes of survey on Section No 18. Township No. 139 N. Range No. 30 W, 5th Principal Meridian, as made by John W. Curo County Surveyor of Cass County Minnesota.

Nov. 26 1907 Silas Manley, and Francis Manley, chainmen and axmen.
We use a Keuffel and Esser transit and a 100. foot Chicago steel tape: At the NW corner of Section 4 T 139 R 30. Gov't notes call for: Black Pine 4, N 66 E, 52. links. Black pine 4. N 44 W, 65. links: Black-pine 4. S 69 W, 28. links. Black pine 4, S 30 E. 36 links we find all the bearing trees standing plainly marked from which we set an 8x8x36 inch cement post for the true NW corner of section 4.

At the $\frac{1}{4}$ corner between Sections 4. and 5. Government notes call for Norway pine 12, N 82 E, 23, links. Norway pine 18, N 52 W, 60. links.

We find both bearing trees standing plainly marked from which we set an 8x8x36 inch stone monument for the true $\frac{1}{4}$ corner on the West side of Section 4.

At the corner to sections 4, 5, 8, 9, Gov't notes call for: Birch 6, N 34 E, 36 links. Birch 5, N 78 W, 22 links. Birch 4 S 64 E, 69. links. Black pine 5, S 46. $\frac{1}{2}$ W, 100. links. We find the old Gov't bearing trees from which we set an 8x8x36 inch cement post for the true SE corner to section 4.

Nov 29 1907 same crew working.

At the $\frac{1}{4}$ corner between sections 8, & 9. Gov't notes call for Black Pine 4, S 71 E, 40 links, Black pine 6, S 88 W. 330. links We find the Southeast bearing tree standing plainly marked from which we set an 8x8x36 inch Cement post for the true $\frac{1}{4}$ corner of the East side of Section 8 the SW tree is gone.

At the corner to sections 8, 9, 16, 17, Gov't notes call for Norway 24, N 75 W, 324, links, Black pine 15, S 40 W, 433. links Norway 20, N 21 E, 1282. links. the Northeast tree is gone. but from the Northwest and Southwest old Gov't bearing trees we set an 8x8x36 inch cement post for the true SE corner to section 8.

At the $\frac{1}{4}$ corner between Sections 8, and 17, Gov't notes call for: Black pine 7, N 5 E, 43 links, We find the tree and set an 8x8x36 inch cement post for the true $\frac{1}{4}$ corner on the North side of section 17.

At the corner to sections 7, 8, 17, 18. Gov't notes call for: Norway 10 N 10 E, 81ks. Norway 10, N 58 N, 22 links. Norway 12, N 25 E 15 links. Norway 12 S 68 W, 21 links.

We find all the trees and set an 8x8x36 inch cement post for the true NE corner to section 18. The name of resident witnesses are, Jas Manley. Chas Stoecker, Silas Manley.

Recorded

June 1st 1911

John W. Curo
County Surveyor Cass Co, Minn.

Field note of the survey of Section No. 17 Township No. 139 N. Range No. 30. W, 5th Principal Meridian, as made by John W. Curo County Surveyor Cass County, Minnesota.

Nov 29

1907 Silas Manley and Francis Manley, Chainmen. ~~James Whitmore~~, and axman. We use a Keuffel and Esser Engineers' transit and a 100. foot Chicago steel tape. At the corner to Sections 8, 9, 16 and 17, being the NE corner of Section 17, Gov't notes call for a post and the following bearing trees:

Norway pine 24, N 75 W, 324. lks

Black pine 15, S 40 W, 433 Links.

Norway pine 20, N 21 E, 1282. links.

the NE tree is gone, but from the NW and SW old Gov't bearing trees we set an 8x8x36 inch cement post for the true NE corner to section 17.

At the $\frac{1}{4}$ corner on the North side of Section 17, notes call Black pine 7, N 5 E, 43 links. We find the tree and set an 8x8x36 inch cement post for the true $\frac{1}{4}$ corner.

At the Northwest corner 17, notes call for Norway pine 10, N 19 E, 8. lks. Norway 12, N 58 W, 22. links. Norway 12, N 25 E 15 links Norway, 12 S 68 W, 21 links. we find all the trees and set an 8x8x36 inch cement post for the true N.W. Cor. Sec 17.

July 17th 1908. John Falk, Arthur Falk, Gilstrom, J. A. Whitmore chainmen and axmen, same transit and chain.

At the $\frac{1}{4}$ corner between sections 16. and 17, Gov't notes call for Black pine 8, S 60, $\frac{1}{2}$ E 113. links. Norway pine 20, S 86 W, 198. links, we find both bearing trees plainly marked from which we set a wood stake for the true $\frac{1}{4}$ corner.

July 18th 1908 same outfit: At the corner to Sections 16, 17, 20, and 21 Gov't notes call for N. pine 24, N 29 E, 31 links. N. pine 22, N 40 W 29. links. Elm 9, S 20 W, 59. links. W. pine 30, S 59 E, 24. links. we find all the trees which check out perfect for course and distance, from which we set a wood stake for the true corner.

At the $\frac{1}{4}$ corner between Sections 20. and 21. Gov't notes call for: N. pine 24, N 47 E, 137. links, N Pine 18, N 19 W, 132. links.

We find both trees and set a wood stake for the true $\frac{1}{4}$ corner.

July 20th 1908 same outfit: at Cor' to Sections 20. 21. 28. 29. Gov't notes call for Black pine 8, N 84, E, 425. links. Black pine 7, N 35 W, 170. lks, Black pine 8, S 84 E 418 links. N Pine 15. S 3 W. 324. links.

THE N.W. tree is gone, but we find the other three from which we set a wood stake for the true Section corner.

July 25, and 27th 1908. with the same crew and instruments we pull up the wood stakes and place an 8x8x36 inch cement post at the following places: $\frac{1}{4}$ between Sections 16. and 17: corner to sections 16, 17, 20. 21.: $\frac{1}{4}$ between sections 20. and 21. and the corner to sections 20. 21. 28. 29. Resident witnesses are: John Falk, D, Gilstrom, J. A. Whitmore. *All courses gained from the lines mentioned*

Recorded June 1st 1911

John W Curo
County Surveyor Cass County Minnesota.

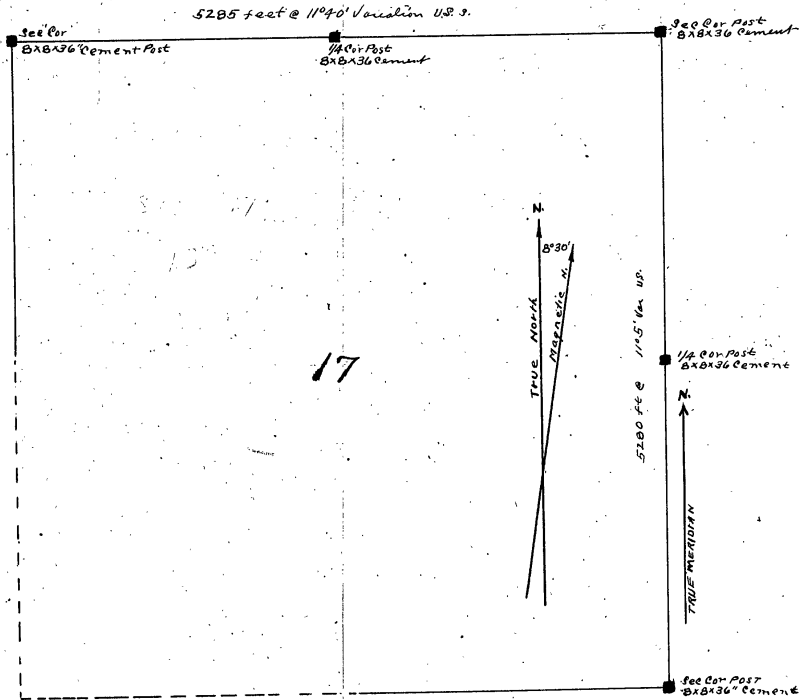
A

PLAT OF

Sec 17 T 139 N R 30 W 5 PM

Scale: 4" = 1 mile

SURVEY RECORD No 73.



Survey begun Nov 29th 1907
 finished July 27 1908
 Reopened June 1st 1911

John W. Carr & Surveyors Co. Minn.

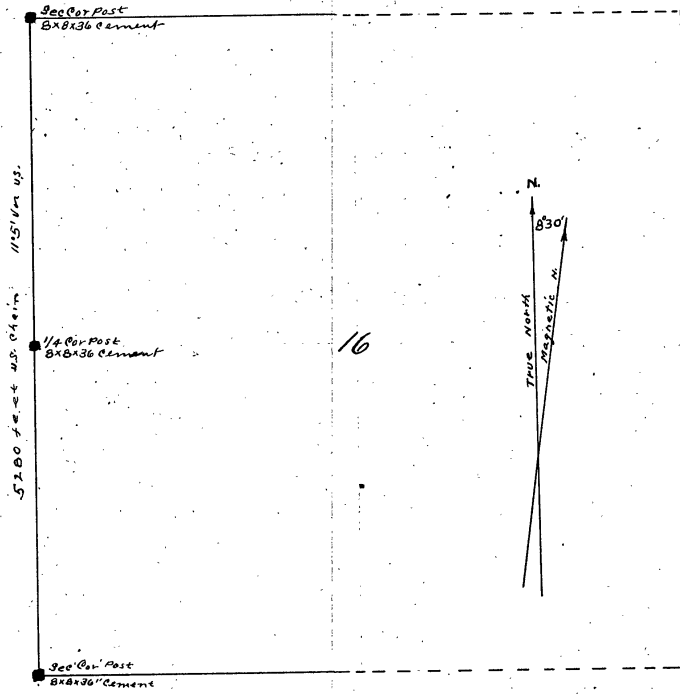
A

PLAT OF

Sec 16 T139N R 30W 5 P.M.

Scale 6" = one mile

SURVEY RECORD No 74



<u>Survey begun</u>	<u>Nov 29th 1907</u>
<u>Completed</u>	<u>July 27th 1908</u>
<u>Recorded</u>	<u>June 1st 1911</u>

John W. Curo County Surveyor Cass Co. Minn.

Field Note of the survey of Section No. 16 Township No 139 N. Range No. 30. W, 5th Principal Meridian, as made by John W. Curo, County Surveyor Cass County, Minnesota.
~~Nov-29th~~ 1907 Silas Manley and Francis Manley, chainmen. ~~Elmer Chambers,~~ and axmen
 We use a Keuffel and Esser Engineers' transit and a 100. foot Chicago steel tape.

At the corner to Sections 8, 9, 16 and 17, being the NW corner of Section 16, Gov't notes call for a post and the following bearing trees:

Norway pine 24, N 75 W, 324. lks.

Black pine 15, S 40 W, 433, links.

Norway pine 20, N 21 E, 1282 links.

The N.E. tree is gone, but from the NW. and SW. old Gov't bearing trees we set an 8x8x36 inch cement post for the true NW. corner to section 16.

At the $\frac{1}{4}$ corner on the North side of Section 17, notes call Black pine 7, N, 5 E, 43 links, We find the tree and set an 8x8x36 inch cement post for the true $\frac{1}{4}$ corner.

At the Northwest corner 17, notes call for Norway pine 10. N 19 E, 8. lks. Norway 12, N 58 W, 22 links. Norway 12 N 25 E, 15 links Norway, 12, S 68 W, 21. links. We find all the trees and set an 8x8x36 inch cement post for the true NW. cor. Sec. 17.

July 17th 1908. John Falk, Arthur Falk, Gilstrom, J. A. Whittemore chainmen and axmen, same transit and chain.

At the $\frac{1}{4}$ corner between sections 16 and 17, Gov't notes call for Black pine 8, S 60, $\frac{1}{2}$ E 113. links Norway pine 20, S, 86 W, 198. links. we find both bearing trees plainly marked from which we set a wood stake for the true $\frac{1}{4}$ corner.

July 18th 1908 same outfit: At the corner to Section 16, 17, 20, and 21. Gov't notes call for: N. pine 24, N 29E, 31 links. N. pine 23, 22, N 40W, 59. links, Elm 9, S 20 W, 59, links, W. pine 30 S 59 E, 24. links. we find all the trees which check out perfect for course and distance, from which we set a wood stake for the true corner.

At the $\frac{1}{4}$ corner between Sections 20. and 21. Gov't notes call for: N. pine 24, N 47 E, 137. links N. Pine 18, N 19 W, 132. links.

We find both trees and set a wood stake for the true $\frac{1}{4}$ corner.

July 20th 1908 same outfit: at Cor' to Sections 20, 21. 29. Gov't notes call for Black pine 8, N 84, E, 425. links. Black pine 7, N 35 W, 170. lks. Black pine 8, S 84 E, 418. links N. Pine 15, S 3 W, 324. links.

The NW. tree is gone, but we find the other three from which we set a wood stake for the true Section corner.

July 25 and 27 1908. with the same crew and instruments we pull up the wood stakes and place an 8x8x36 inch cement post at the following places: $\frac{1}{4}$ between Sections 16, and 17. corner to sections 16, 17, 20, 21.: $\frac{1}{4}$ between sections 20. and 21. and the corner sections 20. 21. 28. 29. Resident witnesses are: John Falk, D. Gilstrom, J. A. Whitmore.

Recorded *June 1st 1911*

John W. Curo
 County Surveyor Cass County Minnesota.

Field note of the survey of Section No. 20 Township No 139 N. Range No. 30. W, 5th Principal Meridian, as made by John W. Curo, County Surveyor Cass County Minnesota.

Nov 29 1907 Silas Manley and Francis Manley, chainmen. ~~Elmer Chambers, and axmen~~

We use a Keuffel and Esser Engineers' transit and a 100 foot Chicago steel tape.

At the corner to Sections 8, 9, 16, 17, being the NE. corner of Section 17, Gov't notes call for a post and the following bearing trees:

Norway pine 24, N 75 W, 324, lks

Black pine 15, S 40 W, 433. links.

Norway pine 20, N 21 E, 1282. links.

the NE. tree is gone, but the NW. and SW. old Gov't bearing trees we set an 8x8x36 inch cement post for the true NE. corner to section 17.

At the $\frac{1}{4}$ corner on the North side of Section 17 notes call Black pine 7, N 5 E, 43 links. We find the tree and set an 8x8x36 inch cement post for the true $\frac{1}{4}$ corner.

At the Northwest corner 17, notes call for Norway pine 10 N 19 E, 8 lks. Norway 12, N 58 W, 22 links. Norway 12 N 25 E, 15. links Norway, 12 S 68 W, 21 links. We find all the trees and set an 8x8x36 inch cement post for the true NW. Cor. Sec 17.

July 17th 1908. John Falk, Arthue Falk. Gilstrom, J.A. Whittemore chainmen and axmen, same transit and chain.

at the $\frac{1}{4}$ corner between sections 16 and 17. Gov't notes call for Black pine 8 S 60. $\frac{1}{2}$ E 113, links Norway pine 20, S 86 W, 198. links. we find both bearing trees plainly marked from which we set a wood stake for the true $\frac{1}{4}$ corner.

July 18th, 1908 same outfit: At the corner to sections 16, 17, 20. and 21. Gov't notes call for: N. pine 24 N 29 E, 31. links. N. pine 22, N 40 W, 59. links, Elm 9, S 20 W, 59 links W. pine 30, S 59 E, 24 links. we find the trees which check out perfect for course and distance, from which we set a wood stake for the true corner.

At the $\frac{1}{4}$ corner between Sections 20. and 21. Gov't notes call for: N. pine N 47 E, 137 links, N, Pine 18, N. 132 links.

We find both trees and set a wood stake for the true $\frac{1}{4}$ corner.

July 20th 1908 same outfit: at Cor' to Sections 20, 21. 28, 29, Gov't notes call for Black pine 8, N 84, E, 425. links. Black pine 7, N 35 W, 170. lks. Black pine 8, S 84 E, 418, links, N Pine 15 S 3 W, 324. links.

The NW. tree is gone but we find the other three from which we set a wood stake for the true Section corner.

July 25 and 27 1908. with the same crew and instruments we pull up the wood stakes and place an 8x8x36 inch cement post at the following places: $\frac{1}{4}$ between Sections 16, and 17,; corner to sections 16, 17, 20, 21,; $\frac{1}{4}$ between sections 20, and 21, and the corner to sections 20, 21, 28, 29.

Resident witnesses are: John Falk, D. Gilstrom, J.A. Whitmore.

Recorded *John W. Curo*
June 1st 1911

John W. Curo
County Surveyor Cass County Minnesota.

Notes continued on page 373 & 377 of this book

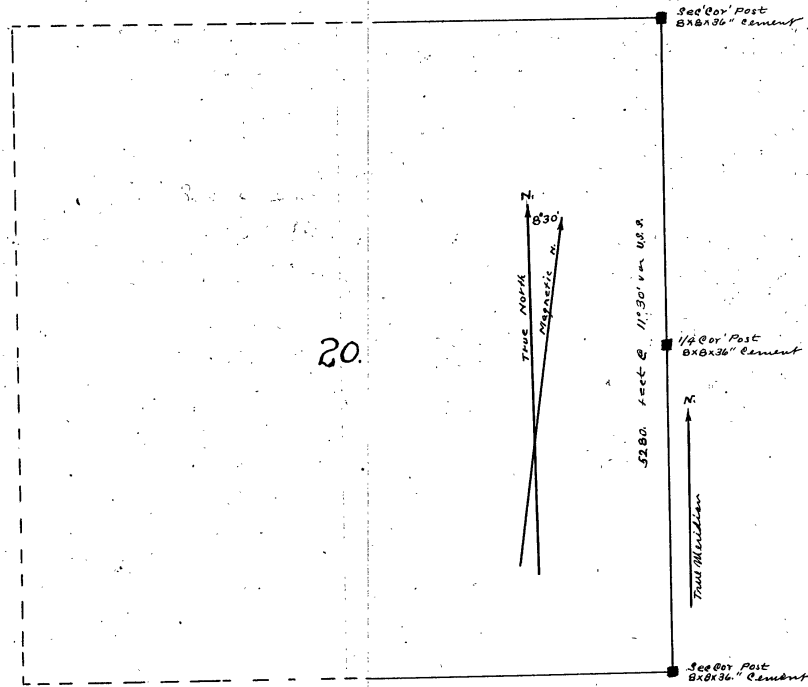
A

PLAT OF

Sec 20. T139N R30W 5PM

Scale 6" = one mile

SURVEY RECORD No 75



Survey begun Nov 29th 1907
 Completed July 27 1908
 Recorded June 1st 1911
John W. Cuss Co Surveyors Cass Co. Mo.

rest continued on page 376 this book

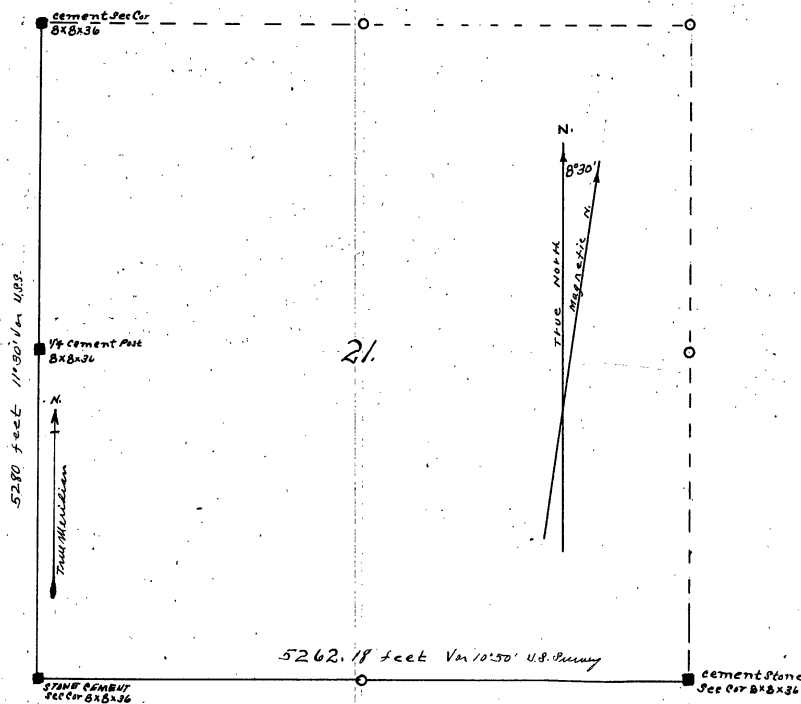
A

PLAT OF

Sec 21 T139N R30W 5 PM.

Scale 6" = one mile

SURVEY RECORD No 76.



Survey begun Nov 29th 1907
 finished Oct 7th 1910
 Recorded June 1st 1911
John W. Cress, C. H. Cress, Cress Co. Minn.

plat continued on page 376 this book

Field note of the survey of Section No. 21 Township No. 139 N, Range No. 30 W, 5th Principal Meridian, as made by John W. Curo, County Surveyor Cass County, Minnesota, ~~Nov 29th 1907~~ Silas Manley and Francis Manley, chainmen Elmer Chambers, and axman We use

a Keuffel and Esser Engineers' transit and a 100. foot Chicago steel tape.

At the corner to Sections 8, 9, 16, and 17, being the NW. corner of Section 16, Gov't notes call for a post and the following bearing trees:

Norway pine 24, N 75 W, 324, lks.

Black pine 15, S 40 W, 433, links.

Norway pine 20, N 21 E, 1282. links.

The NE. tree is gone, but from the NW. and SW. old Gov't bearing trees we set an 8x8x36 inch cement post for the true NW. corner to section 16.

At the $\frac{1}{4}$ corner on the North side of Section 17, notes call Black pine 7, N 5 E, 43 links, We find the tree and set an 8x8x36 inch cement post for the true $\frac{1}{4}$ corner.

At the Northwest corner 17, notes call for Norway pine 10, N 19 E, 8 lks. Norway 12, N 58 W. 22 links. Norway 12, N, 25 E, 15 links Norway, 12, S 68 W, 21. links, we find all the trees and set an 8x8x36 inch cement post for the true NW. Cor. Sec 17.

July 17th 1908. John Falk, Arthur Falk, Gilstrom, J. A. Whittemore chainmen and axmen. same transit and chain.

at the $\frac{1}{4}$ corner of sections 16 and 17, Gov't notes call for Black pine 8, S 60. $\frac{1}{2}$ E, 133. links. Norway pine 20, S 86 W, 198. links. We find both bearing trees plainly marked from which we set a wood stake for the true $\frac{1}{4}$ corner.

July 18th 1908 same outfit: At the corner to sections 16, 17, 20, and 21. Gov't notes call for: N. pine 24 N 29 E, 31, links N pine 22, N 40 W 59. links Elm 9, S 20 W, 59. links, W pine 30. S 59 E, 24 links. we find all the trees which check out perfect for course and distance, from which we set a wood stake for the true corner,

At the $\frac{1}{4}$ corner between Sections 20. and 21. Gov't notes call for: N. pine 24, N 47 E, 137, links N Pine 18 N 19 W, 132. links.

We find both trees and set a wood stake for the true $\frac{1}{4}$ corner.

July 20th 1908 same outfit: at Cor' to Sections 20, 21, 28, 29, Gov't notes call for Black pine 8, N 84, E, 425. links, Black pine 7, N 35 W, 170. lks. Black pine 8 S 84, E 418 links. N pine 15, S 3 W. 324. links.

The NW. tree is gone, but we find the other three from which we set a wood stake for the true Section Corner

July 25 and 27th 1908. with the same crew and instruments we pull up the wood stakes and place an 8x8x36 inch cement post at the following places: $\frac{1}{4}$ between Section 16. and 17, : corner to sections 16, 17, 20. 21.: $\frac{1}{4}$ between sections 20. and 21, and the corner to sections 20, 21, 28, 29,.

Oct 7 1910 J Falk A Falk Harry Todd. We place 8x8x36 inch cement post at the true SE. corner Sec 21. Set from old Gov't bearing trees

Resident witnesses are A. Falk D. Gilstrom. J. A. Whittemore.

Recorded

June 1st 1911

John W Curo
County Surveyor Cass Co, Minn.

Notes continued on page 373 to 377. this book

Field Notes of the Survey of Section No. 29, Township No 139 N, Range No 30 W, 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass County Minnesota.

July 20th 1908. John Falk, J. A. Whittemore, David Gilstrom, axmen and chainmen. We use a K. & E. transit and a 100. ft Chicago steel tape: At the NE corner to Section 29 Government notes call for a post and the following bearing trees:

Black pine 8, N. 84 E, 425. links Black pine 7, N 35 W, 170 links Black pine 8, S 84 E, 418. links. Norway pine 15, S 3W. 424. links. The Northwest tree is gone, but we find the other three called for, from which we set a wood stake for the true corner to Sections 20, 21, 28, 29.

July 21st 1908. same crew, with Clark Falk, assisting: At the $\frac{1}{2}$ corner between Sections 28, and 29, Government notes call for: & "Witness Corner South, 276. Links" with bearing trees as follows: Jack pine 6 N, 83. $\frac{1}{2}$ E. 15 links. Black pine 7, S 20. $\frac{1}{2}$ W, 104. links" we find both trees from which we set the true witness corner and drive a wood stake.

July 22nd 1908. same crew: at the corner to Sections 28, 29, 32, 33, Government notes call for: Black pine 8, N. 67 E, 43. links. Black pine 4, N. 25. $\frac{1}{2}$ W, 29 links. Black pine 10. S 78 E, 31 links, we find all of the trees from which we set a wood stake for the true SE. corner of Section 29.

July 24th 1908. Same crew: we pull up the wood stake at the $\frac{1}{2}$ corner between sections 28, and 29, and put in its place an 8x8x36 inch cement post, marked "U.S. W.C."

July 27th 1908. same crew we pull up the wood stake at the corner to sections 28, 29, 20, 21, and put in its place an 8x8x36 inch cement post. At the $\frac{1}{2}$ between Sections 29, and 32, we find an old hub set by me years ago for the true $\frac{1}{2}$ corner, from the old Gov't bearing trees, we pull up the hub and place a cement post 8x8x36 inches in size for the true $\frac{1}{2}$ corner.

July 28th 1908, we pull up the wood stake at the true corner to sections 28, 29, 32, 33, and place an 8x8x36 inch cement post.

July 29th 1908. Arthur Falk and I dig up a wood plug and iron pin and a stone, which I set years ago for the true corner to sections 29, 30, 31, 32, from old Gov't bearing trees, and place an 8x8x36 inch cement post for the true corner.

Oct 7th 1910: John and Arthur Falk, Harry S. Todd and I place an 8x8x36 inch cement post at the true corner to sections 21, 22, 27, and 28, set from old Government bearing trees, All in Twp 139 Rge 30.

All courses turn from the true meridian.

Resident witnesses are John Falk, Arthur Falk, J. A. Whittemore

Recorded

June 1st 1911

John W Curo
County Surveyor Cass Co Minn.

Notes continued on page 373 to 377 this book

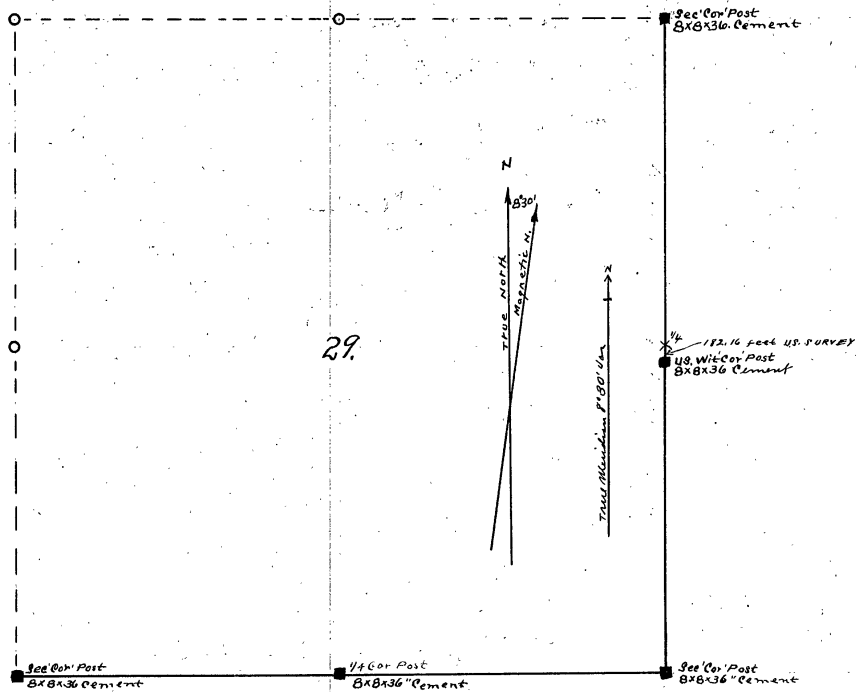
A

PLAT OF

Sec 29 T139N R30W 5 PM.

Scale 6" = one mile

SURVEY RECORD No 77



Survey begun July 20th 1908
 " finished Oct 7th 1910
 Recorded June 1st 1911
 John W. Curo County Surveyor Cass Co. Minn

plat continued on page 376 of this book.

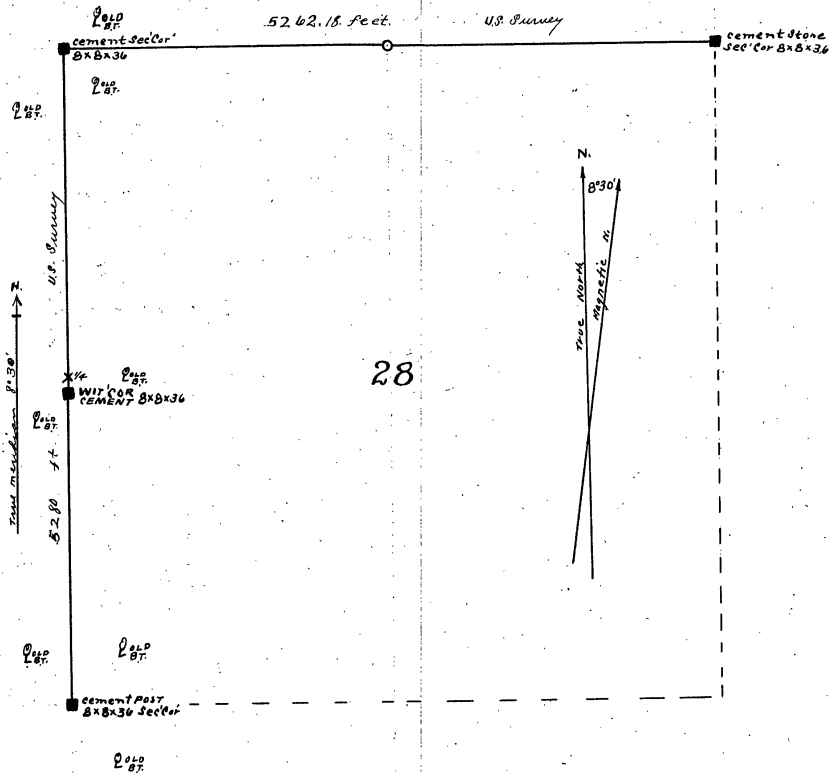
A

PLAT OF

Sec 28, T139N, R30W, 5th PM.

Scale 6" = 1 mile

SURVEY RECORD NO 78.



Survey begun July 20th 1908
 " finished Oct 7 " 1910
 Recorded June 1st 1911
John W. Piers County Surveyor Cass Co. Minn.

plat continued on page 376 of this book

Field Notes of the Survey of Section No, 28 Township No 139N. Range No 30 W. 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County Minnesota.

July 20th 1908. John Falk, J. A. Whittemore, David Gilstrom. axmen and chainmen we use a K. & E. transit and a 100. ft Chicago steel tape. At the NW corner to Section 28 Government notes call for a post and the following bearing trees:

Black pine 8 N 84 E, 425 links Black pine 7 N 35 W, 170 links Black pine 8, S 84 E, 418 links, Norway pine 15, S 3 W 424. links. the Northwest tree is gone but we find the other three called for, from which we set a wood stake for the true corner to Sections 20, 21, 28, 29,

July 21st 1908. same crew, with Carl Falk, assisting: at the $\frac{1}{2}$ corner between sections 28, and 29, Government notes call for: & "Witness Corner South, 276. links" with bearing trees as follows: Jack pine 6, N. 88. $\frac{1}{2}$ E, 15 links. Black pine 7, S 20 $\frac{1}{2}$ W, 104. links"

we find both trees from which we set the true witness corner and drive a wood stake.

July 22nd 1908. same crew: at the corner to Sections 28, 29, 32, 33, Government notes call for: Black pine 8, N. 67 E, 43. links. Black pine 4, N 25. $\frac{1}{2}$ W, 29. links Black pine 10, S 78 E. 31 links. we find all the trees from which we set a wood stake for the true SW. corner of Section 28.

July 24th 1908. Same crew: we pull up the wood stake at the $\frac{1}{2}$ corner between Sections 28. and 29, and put in its place an 8x8x36 inch cement post, Marked "U. S. W. C."

July 27th, 1908 same crew, we pull up the wood stake at the corner to sections 28, 29, 29, 27, and put in its place an 8x8x36 inch cement post. At the $\frac{1}{2}$ between Sections 29. and 32, we find an old hub set by me years ago for the true $\frac{1}{2}$ corner, from the old Gov't bearing trees. we pull up the hub and place a cement post 8x8x36 inches in size for the true $\frac{1}{2}$ corner.

July 28th 1908 we pull up the wood stake at the true corner to sections 28, 29, 32, 33, and place an 8x8x36 inch cement post.

July 29th 1908, Arthur Falk and I dig up a wood plug, and iron pin and a stone, which I set years ago for the true corner to sections 29. 30. 31, 32. from old Gov't bearing trees, and place an 8x8x36 inch cement post for the true corner.

Oct 7th 1910. John and Arthur Falk, Harry S. Todd and I place an 8x8x36 inch cement post at the true corner to sections 21, 22, 27, and 28, set from old Government bearing trees, All in Twp 139. Rge 30.

All courses turned from the true meridian.

Resident witnesses are John Falk, Arthur Falk, J. A. Whittemore.

Recorded *June 1st 1911.*

John W Curo
County Surveyor Cass Co Minn.

Notes continued on page 373 to 377 of this book

Field Notes of the Survey of Section 32, Township No. 139 N. Range No. 30 W. 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County Minnesota,

July 20th 1908. John Falk, J. A. Whittemore, David Gilstrom, axmen and chainmen. We use a K. & E. transit and a 100. ft Chicago steel tape: At the NE. corner to Section 29 Government notes call for a post and the following bearing trees:

Black pine 8, N 84 E, 425. links. Black pine 7, N 35 W, 170. links Black pine 8, S 84 E, 418 links Norway pine 15. S 3 W, 424. links. the Northwest tree is gone, but we find the other three called for from which we set a wood stake for the true corner to Sections 20, 21, 28, 29.

July 21st 1908. same crew, with Carl Falk assisting: At the $\frac{1}{2}$ corner between Sections 28, and 29. Government notes call for: & " Witness Corner South, 276. links" with bearing trees as follows:

Jack pine 6, N. 88. $\frac{1}{2}$ E, 15 links. Black pine 7, S 20. $\frac{1}{2}$ W. 104 links" we find both trees from which we set the true witness corner and drive a wood stake.

July 22nd 1908, same crew: at the corner to sections 28, 29, 32, 33, Government notes call for : Black pine 8, N 67 E, 43, links. Black pine 4 N 25. $\frac{1}{2}$ W, 29. links. Black pine 10, S 78 E, 31 links. We find all of the trees from which we set a wood stake for the true SE. corner of Section 29.

July 24th 1908 Same crew: we pull up the wood stake at the $\frac{1}{2}$ corner between Sections 28, and 29, and put in its place an 8x8x36 inch cement post, marked "U.S. W.C. "

July 27th 1908, same crew. we pull up the wood stake at the corner to sections 28, 29, ~~28~~ 21, and put in its place an 8x8x36 inch cement post. At the $\frac{1}{2}$ between Sections 29, and 32. we find an old hub set by me years ago for the true $\frac{1}{2}$ corner from the old Gov't bearing trees, we pull up the hub and place a cement post 8x8x36 inches in size for the true $\frac{1}{2}$ corner.

July 28th 1908, we pull up the wood stake at the true corner to sections 28, 29, 32, 33. and place an 8x8x36 inch cement post.

July 29th 1908. Arthur Falk and I dig up a wood plug and iron pin and a stone, which I set years ago for the true corner to sections 29, 30, 31, 32, from old Gov't bearing trees, and place an 8x8x36 inch cement post for the true corner.

Oct 7th 1910. John and Arthur Falk, Harry S Todd and I place an 8x8x36 inch cement post at the true corner to sections 21, 22, 27, and 28, set from old Government bearing trees, all in Twp 139 Rge 30 All courses turned from the true meridian.

Resident witnesses are John Falk, Arthur Falk, J. A. Whittemore.

Recorded *June 1st 1911*

John W. Curo
County Surveyor Cass Co Minn.

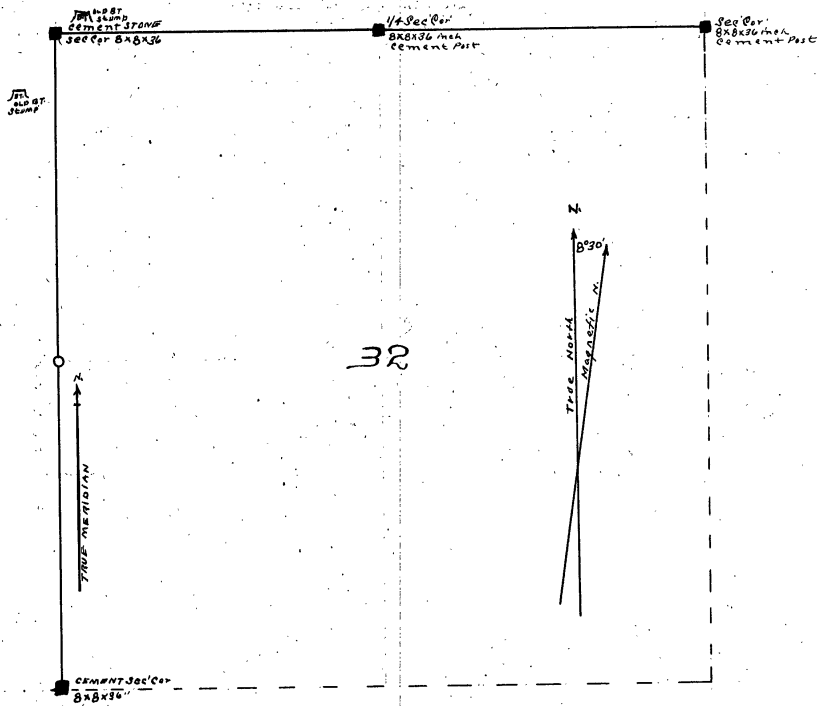
A

PLAT OF

SEC 32, T139 N, R30 W 5 P.M.

Scale 6" = 1 mile

SURVEY RECORD No 79.



Survey begun July 20th 1908
 " finished Oct 7th 1910
 Recorded June 1st 1911
 John W. Cuss County Surveyor Cass Co. Minn

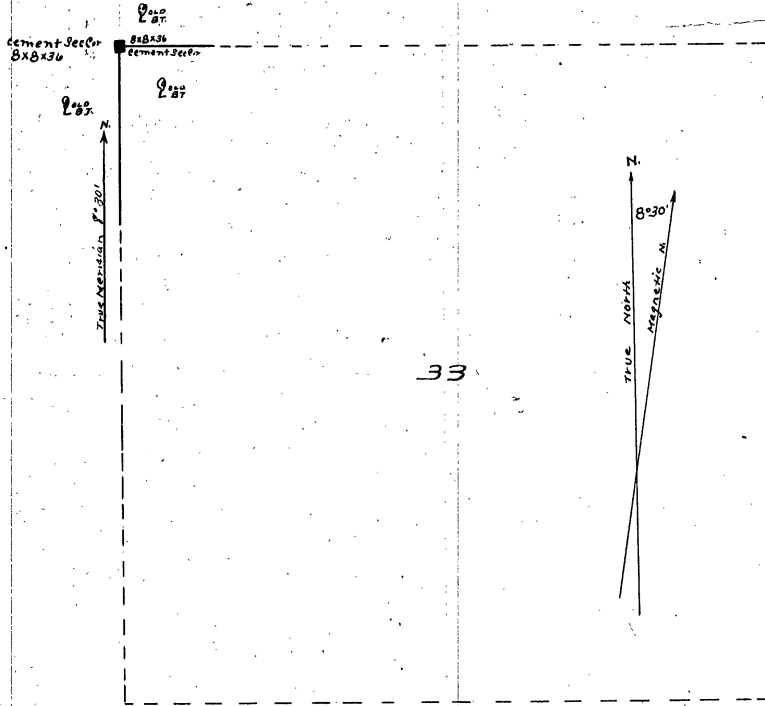
A

PLAT OF

Sec 33, T. 139 N., R. 30 W., 5th P.M.

Scale 6" = one mile

SURVEY RECORD NO. 80.



Survey begun July 30th 1908
 Finished Survey Oct 7th 1910
 Recorded June 1st 1911
 John W. Curo, County Surveyor Cass Co. Minn.

Field Notes of the Survey of Section No. 33 Township No. 139 N. Range No 30 W, 5th Principal Meridian, as made by John W. Curo County Surveyor, Cass County Minnesota.

July 20th 1908, John Falk, J. A. Whittemore, David Gilstrom, axmen and chainmen we use a K. & E. transit and a 100, ft Chicago steel tape: At the NW. corner to section 28, Government notes call for a post and the following bearing trees:

Black pine 8, N 84 E, 425. links. Black pine 7, N 35 W, 170 links. Black pine 8 S. 84 E, 418. links. Norway pine 15, S. 3 W, 424 $\frac{1}{2}$ links. the Northwest tree is gone, but we find the other three called for, from which we set a wood stake for the true corner to Sections 20, 21, 28, 29.

July 21st 1908, same crew, with Carl Falk assisting: At the $\frac{1}{4}$ corner between Sections 28. and 29. Government notes call for a "Witness Corner South 276, links" with bearing trees as follows: Jack pine 6, N 88 $\frac{1}{2}$ E. 15 links. Black pine 7; S 20 $\frac{1}{2}$ W, 104. links" we find both trees from which we set the true witness corner and drive a wood stake;

July 22nd 1908. same crew: at the corner to sections 28, 29, 32, 33, Government notes call for: Black pine 8, N 67 E, 43. links. Black pine 4 N 25 $\frac{1}{2}$ W, 29. links. Black pine 10. S 78 E 31 links. we find all of the trees from which we set a wood stake for the true SW. corner to Section 28.

July 24th 1908. Same crew: we pull up the wood stake at the $\frac{1}{4}$ corner between Sections 28, and 29, and put in its place an 8x8x36 inch cement post, marked "U.S. W. C."

July 27th 1908. same crew. we pull up the wood stake at the corner to sections 28, 29, 29, 31, and put in its place an 8x8x36 inch cement post. At the $\frac{1}{4}$ between Sections 29, and 32, we find an old hub set by me years ago for the true $\frac{1}{4}$ corner, from the old Gov't bearing trees. we pull up the hub and place a cement post 8x8x36 inches in size for the true $\frac{1}{4}$ corner.

July 28th 1908; we pull up the wood stake at the corner to sections 28, 29, 32, 33, and place an 8x8x36 inch cement post.

July 29th, 1908. Arthur Falk and I dig up a wood plug, an iron pin and a stone, which I set years ago for the true corner to sections 29, 30. 31 32; from old Gov't bearing trees, and place an 8x8x36 inch cement post for the true corner.

Oct 7th, 1910, John and Arthur Falk, Harry S. Todd and I place an 8x8x36 inch cement post at the true corner to sections 21. 22. 27. and 28, set from old Government bearing trees. All in Twp 139, Rge 30.

All courses turned from the true meridian.

Resident witnesses are John Falk, Arthur Falk, J. A. Whittemore.

Recorded June 1st 1911

John W. Curo
County Surveyor Cass Co Minn.

A

Field Notes of the Survey of Section No22, Township No. 139. N, Range 30 W. 5th Principal Meridian as made by John W. Curo County Surveyor of Cass County Minnesota.

July 20th 1908. John Falk, J. A. Whittemore, David Gilstrom. axmen and chainmen we use a K. & E. transit and a 100 ft Chicago steel tape. At the NW corner to section 28, Government notes call for a post and the following bearing trees:

Black pine 8, N 84 E. 425. links Black pine 7 N. 35 W, 170. links Black pine 8 S 84 E, 418 links Norway pine 15, S 3 W, 424. links the Northwest tree is gone, but we find the other three called for from which we set a wood stake for the true corner to Sections 20, 21, 28, 29.

July 21st 1908, same crew with Carl Falk, assisting: At the $\frac{1}{4}$ corner between sections 28. and 29, Government notes call for : & " Witness Corner South. 276. links" with bearing trees as follows: Jack pine 6, N 88. $\frac{1}{2}$ E. 15 links. Black pine 7. S. 20. $\frac{1}{2}$ W, 104. links" we find both trees from which we set the true witness corner and drive a wood stake.

July 22nd 1908. same crew: at the corner to Sections 28, 29, 32, 33, Government notes call for Black pine 8, N. 67 E, 43. links. Black pine 4, N 25. $\frac{1}{2}$ W, 29 links, Black pine 10, S 78 E. 31 links. we find all of the trees from which we set a wood stake for the true SW corner of Section 28.

July 24th 1908. Same crew we pull up the wood stake at the $\frac{1}{4}$ corner between Sections 28, and 29, and put in its place an 8x8x36 inch cement post, marked " U.S. W. C. "

July 27th 1908. same crew, we pull up the wood stake at the corner to sections 28, 29, 29, 31, and put in its place an 8x8x36 inch cement post. At the $\frac{1}{4}$ between Sections 29, and 32, we find an old hub set by me years ago for the true $\frac{1}{4}$ corner, from the old Gov't bearing trees. we pull up the hub and place a cement post 8x8x36 inches in size for the true $\frac{1}{4}$ corner.

July 28th 1908, we pull up the wood stake at the true corner to sections 28, 29, 32, 33, and place an 8x8x36 inch cement post.

July 29th 1908. Arthur Falk and I dig up a wood plug, and iron pin and a stone which I set years ago for the true corner to sections 29, 30, 31, 32, from old Gov't bearing trees, and place an 8x8x36 inch cement post for the true corner.

Oct 7th 1910. John and Arthur Falk, Harry S, Todd and I place an 8x8x36 inch cement post at the true corner to sections 21, 22, 27, and 28, set from old Government bearing trees All in Twp 139 Rge 30.

All courses turned from the true meridian.

Resident witnesses are John Falk, Arthur Falk, J. A. Whittemore.

Recorded June 1st 1911

John W Curo
County Surveyor Cass Co Minn.

Notes continued on page 373 to 377 this book

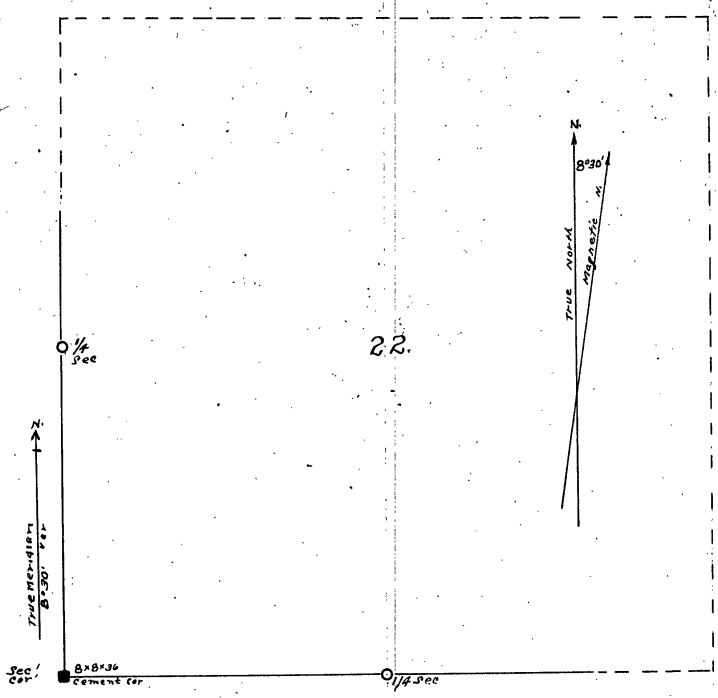
A

PLAT OF

Sec 22, T139N R30W 5 PM

Scale 6" = one mile

SURVEY RECORD No 81.



Survey begun July 20th 1908
 finished Oct 9th 1910
 Recorded June 1st 1911

John W. Cross, County Surveyor, Cass Co. Minn.

plat continued on page 376 this book

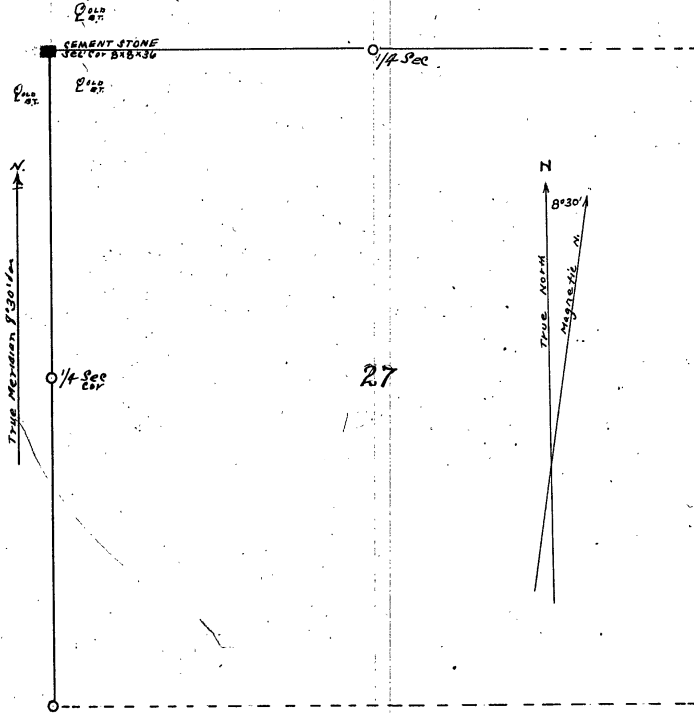
A

PLAT OF

Sec 27, T. 139 N R 30 W 5 P.M.

Scale: 4" = 1 mile

SURVEY RECORD No 82.



Survey begun July 20th 1908
 " Finished Oct 7th 1910
 " Recorded June 1st 1911
 John W. Curo County Surveyor Cass Co. Minn.

plat continued on page 376 of this book

Field Notes of the Survey of Section No. 27, Township No. 139 N, Range No. 30 W, 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass County Minnesota.

July 20th 1908. John Falk, J. A. Whittemore, David Gilström axmen and chainmen. We use a K. & E. transit and a 100 ft Chicago steel tape: At the NE. corner to Section 29, Government notes call for a post and the following bearing trees:

Black pine 8 N 84 E, 425 links. Black pine 7. N. 35 W. 170. links Black pine 8, S 84 E, 418 links. Norway pine 15 S 3 W, 424. links. the Northwest tree is gone, but we find the other three trees cut off for from which we set a wood stake for the true corner to Sections 20, 21, 28, 29.

July 21st 1908. same crew with Carl Falk, assisting: at the $\frac{1}{2}$ corner between Sections 28, and 29, Government notes call for: & "Witness Corner South, 276. links" with bearing trees as follows: Jack pine 6, N 88. $\frac{1}{2}$ E, 15 links. Black pine 7, S 20. $\frac{1}{2}$ W, 104. links" we find both trees from which we set the true witness corner and drive a wood stake.

July 22nd 1908. same crew at the corner to sections 28, 29, 32, 33, Government notes call for: Black pine 8 N. 67 E, 43 links. Black pine 4. N 25. $\frac{1}{2}$ W, 29 links Black pine 10 S 78 E, 31 links. we find all of the trees from which we set a wood stake for the true SE corner of Section 29.

July 24th 1908, Same crew: we pull up the wood stake at the $\frac{1}{2}$ corner between Sections 28, and 29 and put in its place an 8x8x36 inch cement post, marked "U. S. W. C. "

July 27th 1908. same crew. we pull up the wood stake at the corner to sections 28, 29, 29, 27, and put in its place an 8x8x36 inch cement post. At the $\frac{1}{2}$ between Sections 29. and 32, we find an old hub set by me years ago for the true $\frac{1}{2}$ corner, from the old Gov't bearing trees, we pull up the hub and place a cement post 8x8x36 inches in size for the true $\frac{1}{2}$ corner.

July 28th, 1908. we pull up the wood stake at the true corner to sections 28, 29. 32, 33, and place an 8x8x36 inch cement post.

July 29th 1908. Arthur Falk and I dig up a wood plug and iron pin and a stone, which I set years ago for the true corner to sections 29, 30, 31, 32, from old Gov't bearing trees, and place an 8x8x36 inch cement post for the true corner.

Oct 7th 1910. John Falk, Arthur Falk, Harry S. Todd and I place an 8x8x36 inch cement post at the true corner to sections 21, 22, 27, and 28, set from old Government bearing trees, all in Twp 139, Rge 30.

All courses turned from the true meridian.

Resident witnesses are John Falk Arthur Falk, J. A. Whittemore.

Recorded *June 1st 1911*

John W. Curo
County Surveyor Cass Co Minn.

Notes continued on page 373 to 377 this book

Field notes of the survey of Section No 30, Township No 139N. Range No 30, W 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County Minnesota.

July 9th 1906 Harold Miles Chairman and axman, Claude Helm, chairman and axman, we use a K. & E. engineers' transit and a 100. foot Chicago steel tape.

At the corner to sections 29, 30, 31, and 32, Twp 139, N. R. 30. W, being the SE. corner to section 30, Gov't notes call for a post and the following bearing trees:

Norway pine 20, S, 79 E 13, links Black pine 8, S. 6 W, 162. links. Norway pine 18, N 32 E, 178 . links.

We find the stump of the South-west tree plainly marked and the stump of the North-east tree dimly marked and on chaining the measurements I find a hub drove in the ground for the true section corner

I drive an iron pin in the hub and place a flat stone on top so as to mark the place. The corner post of a fence North 53. feet.

Run East: at 1320, ft set hub at 2640. ft set hub at 3960, ft set hub at 5280, ft set hub the corner to sections 28, 29, 32, 33, bears 77°14' to the Left, 68 ft distant.

WE find all the bearing trees plainly marked from which we set the true corner.

July 10th 1906 Correcting back, we set transit on Hub 2640, and run N.12° 46' E, 34. feet and drove hub for $\frac{1}{2}$ corner between sections 29, and 32, established new bearings as follows: Pine 9, S 18 W, 14. $\frac{1}{2}$ links Stump 10, N 25° 36' E, 94. $\frac{1}{2}$ links.

WE find Old Gov't bearing trees down and partly buried in the dirt but measurements taken from the roots, check out perfect for course and distance, with the stake we have just set.

July 29th 1908. Arthur Falk and I dig up the wood plug, iron pin and stone, and place an 8x8x36 inch cement post at the true SE. corner to Sec 30, T.139.R. 30.

At M. C. No. 64, T. 139. R 30 we find both old Gov't bearing trees from which we place an 8x8x36 inch cement post for the true corner on the south side of section 30, then measured East along the Section line and find the distance to the SE corner of sec 30. to be 1670. ft or 20. ft. longer than Gov't chain, Chaining back 1336. ft I place an 8x8x36 inch post for the true $\frac{1}{16}$ corner.

Resident witnesses are John Falk Arthur Falk, John Baily.

Recorded June 1st 1911

John W Curo
County Surveyor Cass Co Minn.

Notes continued on page 373 to 377 this book

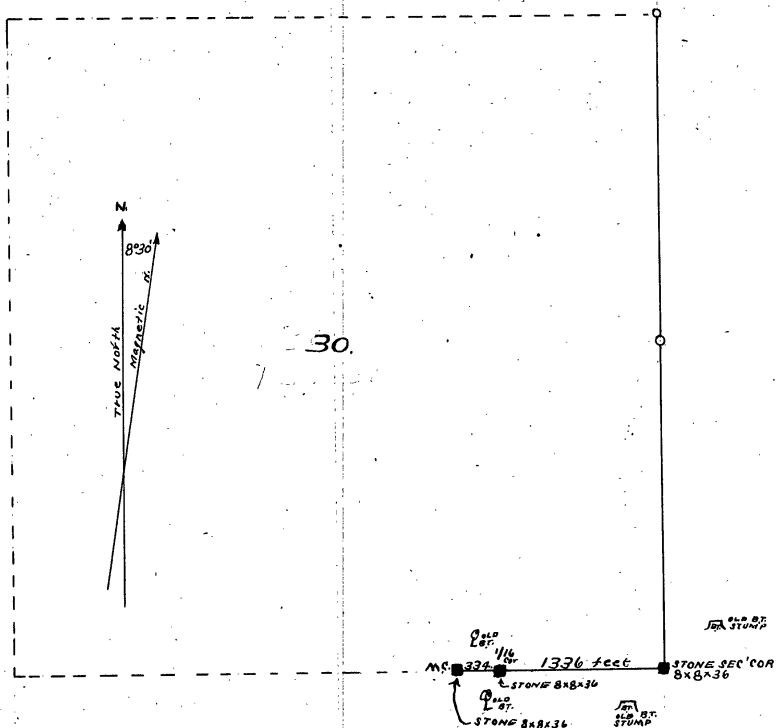
A

PLAT OF

Sec 30, T139 N R 30 W 5th PM.

scale 6" = one mile

SURVEY RECORD No 83.



Survey begun July 9th 1906
 finished July 29th 1908
 Recorded June 1st 1911
 John W. Cross County Surveyor Cross Co. Maine

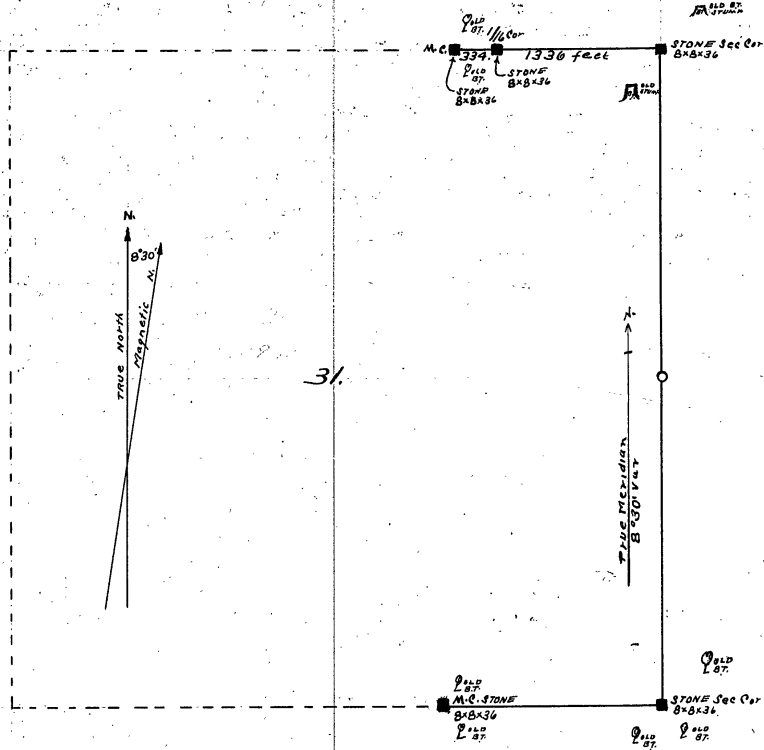
plat continued on page 376 this book

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PLAT DE

Sec 31 TWP 139 R6E 30 S. PAN.
Scale 1" = 1 mile

SURVEY RECORD NO 84.



Survey begun July 9th 1906
 finished July 29th 1908
 Recorded Aug 1st 1911
 John W. Curo County Surveyor Cass Co. Minn.

A

Survey record No. 84 Sec No. 31, T. No, 139N. R. NO. 30 W, 5th P. M.

Field Notes of the survey of Section No. 31, Township No. 139 N. Range No. 30 W, 5th Principal Meridian as made by John W. Curo, County surveyor of Cass County Minnesota.

July 9th 1906 Harold Miles, chairman and axman. Claude Helm, chairman and axman, we use a K. & E. engineers' transit and a 100 foot Chicago steel tape.

At the corner to sections 29, 30, 31, and 32. Twp 139 N. R. 30 W. being the NE. corner to section 31, Gov't notes call for a post and the following bearing trees:

Norway pine 20. S 79 E, 13. links Black pine 8, S 6 W. 162, links, Norway pine 18. N 32 E, 178. links.

We find the stump of the South-west tree plainly marked and the stump of the North-east tree dimly marked and on chaining in the measurements I find a hub drove in the ground for the true section corner

I drive an iron pin in the hub and place a flat stone on top so as to mark the place. The corner post of a fence bears North, 33. feet.

At the SE. corner to Section 31, Town 139N, Range 30 W, Gov't notes call for a post and the following bearing trees: N. pine 10: S 61 E, 48. lks, Oak 8, N 51 W, 54, lks. Black pine 10, S 5 W, 89. lks. B pine 7, N 64 E, 115. we find the 3. pine trees and set a piece of R.R. rail for the true SE. corner of section 31. T. 139 R. 30.

July 28th 1908. John Falk, & J.A. Whittemore, chainmen & moundmen Going to M. C. No. 63 on the East side of Pine Mountain Lake, and on the South boundry of sectio 31 T 139 R 30 Gov't notes call for: Ash 6, S 36.2 E, 92 lks. Balm of Giliad 16, N 22.3/4 E, 100. lks. Bothe trees are there but almost gone. we set an 8x8x36 inch cement block for the true Meander post.

Going the the SE corner to sec 31, T 139. R 30, we pull up the R.R. iron and place an 8x8x36 inch cement post for the true corner.

July 29th 1908. Arthur Falk and I dig up the plug, iron pin and stone, and place an 8x8x36 inch cement post at the true NE. corner to Sec 31, T. 139. R 30.

At M. C. No 64, T. 139. R 30. we find both old Gov't bearing trees from which we place an 8x8x36 inch cement post for the true corner on the Nort side of section 31, then measured East along the Section and find the distance to the NE. corner of sec 34 to be 1670. ft or 20. ft longer than Gov't chain, Chaining back. 1336. ft I place an 8x8x36 inch post for the true 1/16 corner. Resident witnesses are John Falk, Arthur Falk, John Bailey.

Recorded June 1st 1911

John W. Curo
County Surveyor Cass Co Minn.

Survey record No. 85 Sec No 6; T: 138 N, R: No 30 W, 5th P.M.

Field Notes of the survey of Section No 6, Township No 138, Range No. 30 W, 5th Principal Meridian, as made by John W. Curo; County surveyor of Cass County Minnesota.

July 10 1906 Harold Miles, chairman and axman. Claude Helm, chainman and axman, we use a K. & E. engineers' transit and a 100. foot Chicago steel tape.

At the NE. corner to Section 6. Town 138 N Range 30 W, Gov't notes call for a post and the following bearing trees: N. pine 10. S 61 E, 48. lks. Oak S, N 51 W, 54 lks. Black pine 10, S 5 W, 89 lks. B. pine 7, N, 64 E. 115. we find the 3, pine trees and set a piece of R. R. rail for the true NE. corner of sectio 6. T. 138 R. 30.

July 28th 1908. John Falk, & J. A. Whittemore chainmen & moundmen. Going to M.C. No 16 on the East side of Pine Mountain Lake the North boundry of section 6 T 138 R 30 Gov't notes call for: Ash 6 S 36. $\frac{1}{2}$ E, 92 lks. Balm of Giliad 16, N 22. $\frac{3}{4}$ E, 100 lks. Both trees are there but almost gone, we set an 8x8x36 inch cement block for the true Meander post.

Going to the N.E. corner to sec 6, T 138. R 30, we pull up the R.R. iron and place an 8x8x36 inch post for true corner.

Resident witnesses are John Falk, Artur Falk, John Bailey

Recorded

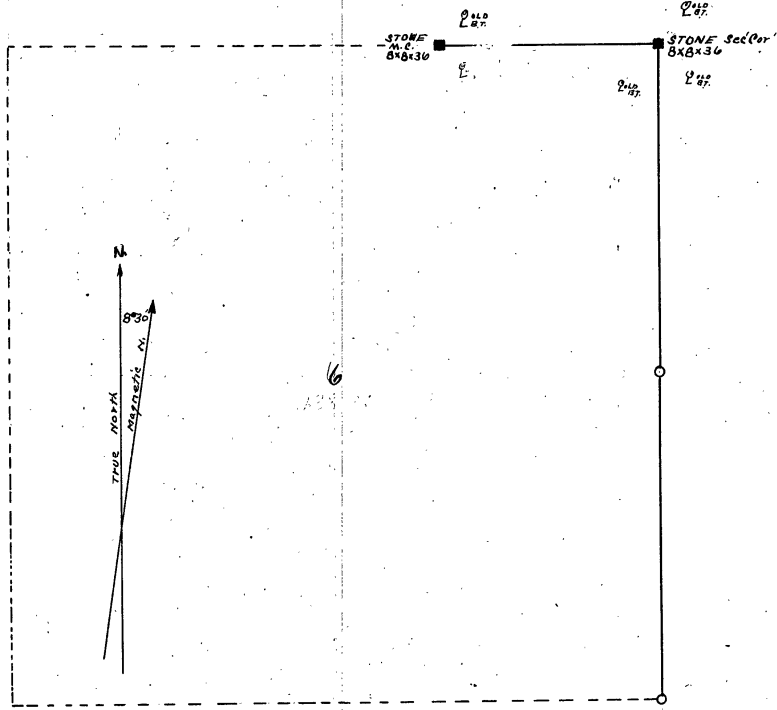
*June 1st 1911**John W Curo*
County Surveyor Cass Co. Minn.

A

PLAT OF

Sec 6. T. 138 N. R. 30 W. 5th P.M.
scale 6" = 1 mile

SURVEY RECORD No 85.

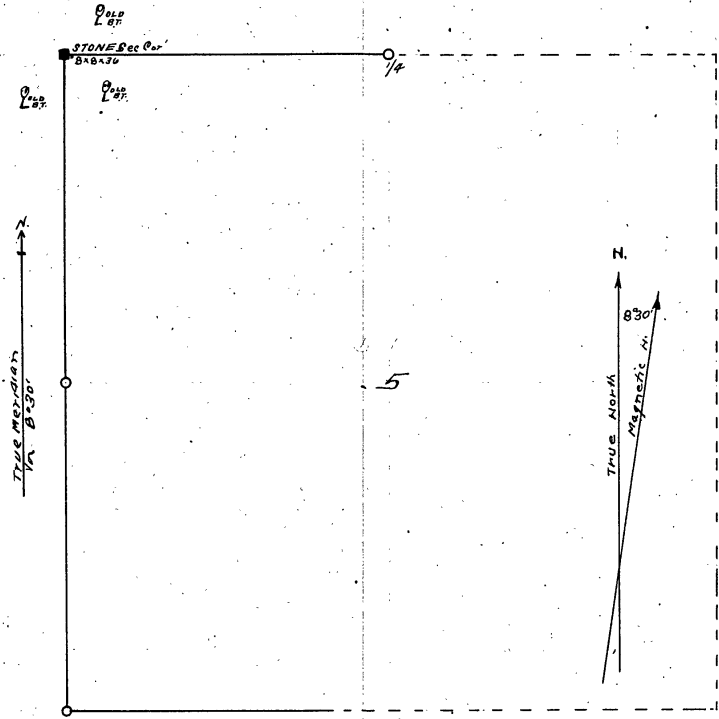


Survey begun July 10th 1906
 " finished July 28th 1908
 " recorded June 1st 1911.
 John W. Curo County Surveyor Cass Co. Missouri

PLAT OF

Sec 5 T. 138 N. R. 30 W. S. 4 M.
Scale 6 inches = 1 mile

SURVEY RECORD NO 86



Survey begun July 9th 1906
 Completed " 28 " 1908
 Recorded June 1st 1911
 John W. Ohio County Surveyor Cass Co. Minn.

A

Survey record No 86 Sec. No. 5. T. No. 138 N, R. No. 30 W. 5th P.M.

Field Notes of the survey of Section 5, Township No. 138 N, Range No. 30 W, 5th Principal Meridian, as made by John W. Curo, County surveyor of Cass County Minnesota.

July 9th 1906 Harold Miles, chairman and axman. Claude Helm, chairman and axman. we use a K. & E. engineers' transit and a 100. foot Chicago steel tape.

At the NW. corner to Section 5, Town 138 N, Range 30 W, Gov't notes call for a post and the following bearing trees: N. pine 10, S 61 E. 48. lks Oak S, N 51 W, 54 lks. Black pine 10 S 5 W, 89 lks, B pine 7, N 64 E, 115. we find the 3 pine trees and set a piece of R. R. rail for the true NW. corner of section 5, T 138 R 30.

July 28th 1908. John Falk, & J.A. Whittemore, chainmen & moundmen. Going to M.C. No. 16 on the East side of Pine Mountain Lake and on the N boundary of section 6 T 138 R 30 Gov't notes call for : Ash 6, S 36.2 E, 92 lks. Balm-of-Giljad 16, N 22.3/4 E, 100 lks. Both trees are there but almost gone. we set an 8x8x36 inch cement block for the true Meander post.

Going to the NW. corner of sec 5, T 138, R 30 we pull up R.R. iron and place an 8x8x36 inch post for true corner.

Resident witnesses are John Falk, Arthur Falk, John Bailey.

Recorded June 1st 1911

John W. Curo
County Surveyor Cass Co Minn.

Survey record No. 87. Sec 22. T. No. 137 N, R no 31. W 5th P. M.

Field notes of the survey of Section 22 Township No. 137N, Range No. 31 W, 5th P. M. as made by John W. Curo, County surveyor of Cass Co. Minn.

June 12th 1907 O.P. Olson, & O.G. Boquest, Ax men Ole Sandstrom and I chaining. perfect plumbob line. I use a K & E. transit in perfect adjustment and a 100. foot Chicago steel tape.

At the Corner to Secs' 22, 23, 26, 27, T 137, R 31, being the S.E. corner of section 22 Gov't notes call for a post and the following bearing trees: White Birch 8. N 40° E, 18. links.: W. Birch 7 N 37° W, 16. links: White birch 12, S 4° E, 25. links. Aspen 9. S 74° W, 20. links. All are gone except the root of the NW and W. old Gov't bearing trees but we find a long sharp field stone buried in the road centre for the true corner: This stone was placed there by James M. Canfield when he was County Surveyor of Cass County, and Jake Huffman assisted in placing it.

Setting transit on a hub marked "O.O." near the N line of Sec 26, we run West on 8°30' variation At 586.30 ft set hub: at 3368.10 feet intersect the true corner at SE Cor of section 22: Going back to hub O.O. we run East: and at 1980. feet, equals 5348.10 ft set hub true corner to sections 23, 24, 25, 26, 137-31 stands N 12°5' E, 14.90 feet, marking the total length of the North side of section 26, 5351.30 feet.

Coming back to hub 586.30 we measure 107.80 ft West and set hub: then measure N 12°5' E 7.45 ft and set oak stake for true $\frac{1}{4}$ corner on North side of section 26 with new bearing trees as follows: Old White pine stub, 16. N.66° 28' W, 69. feet: Poplar stub 8, N 55°4' E, 44.20 feet. at 8° 40' variation.

At the corner to sections 23, 24, 25, 26, T. 137 R. 31, being the NE corner to section 26 Gov't notes call for a post and the following bearing trees: White pine 8, S 79°W, 30. links., Norway pine 6, N 30°E, 40. links. White birch 9, S 58°E, 35. links. Aspen 8, N 50° W, 19 links. we find the stump of the white pine and norway bearing trees, plainly marked from which we establish the true corner, and set a stone.

June 13th 1907. same crew: Beginning at $\frac{1}{4}$ on South side of sec 23 run N. 8° var' : at 1320. ft set hub: at 2640. ft set hub at 3960. ft set hub: at 5280. ft set hub for temporary $\frac{1}{4}$ corner on North side of section 23 find no stakes.

June 14th 1907. Beg' at $\frac{1}{4}$ Cor' on N side of sec 26 run S. 8° 40' var: at 1320. 2640. 3960. 5280. ft set hubs.

Going to the corner of sections 25, 26, 35m 36m being the SE cor of sec 26, Gov't notes call for a post and bearing trees as follows: Norway pine 21, N 20° W, 44. links. White pine 7, N 69° E, 105 links. Dead White birch 7, S 80°W, 12. links. W. birch 6, S 67°E. 20. links. We find the Norway and white pine plainly marked from which we set a stake for the true SE. Cor' of section 26.

June 15th 1907. Beginning at the NE corner of Section 35 we run West 8° 40' var: at 2640. set temp $\frac{1}{4}$ corner: Bearing trees are gone at 5301.80 ft set hub true corner of sections 26, 27, 34, 35, stands North 4. feet. At this point Gov't notes call for: Tamarac 20, S 41° E, 40. links: Tamarac 14, S 20° W, 71. links. Elm 12, N 61°W, 65. links. Elm 8, N 42°E, 47. links.

I set a good solid pine post for the section corner well into the swamp.

Resident Witnesses are: Ole Sandstrom, Jake Huffman, O.P. Olson.

County Surveyor Cass County Minnesota.

Recorded July 31st 1911

John W. Curo County Surveyor Cass Co Minn

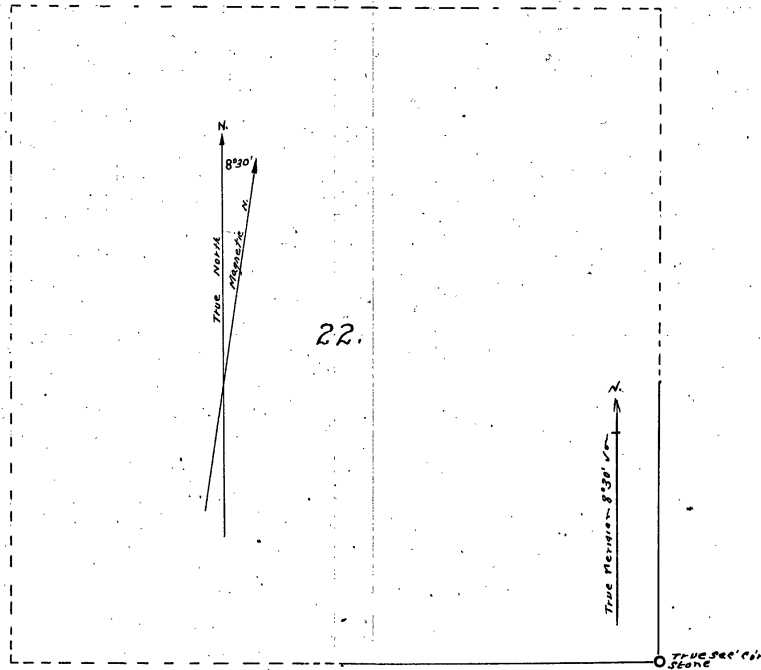
A

PLAT OF

Sec 22 T 137 N R 31 W 5 PM

Scale: 6 inches to the mile

SURVEY RECORD NO 87



Survey begun June 13th 1907
 " completed 15 " 1907
 " recorded July 31 1911
 John W. Cline County Surveyor Cass Co. Mo.

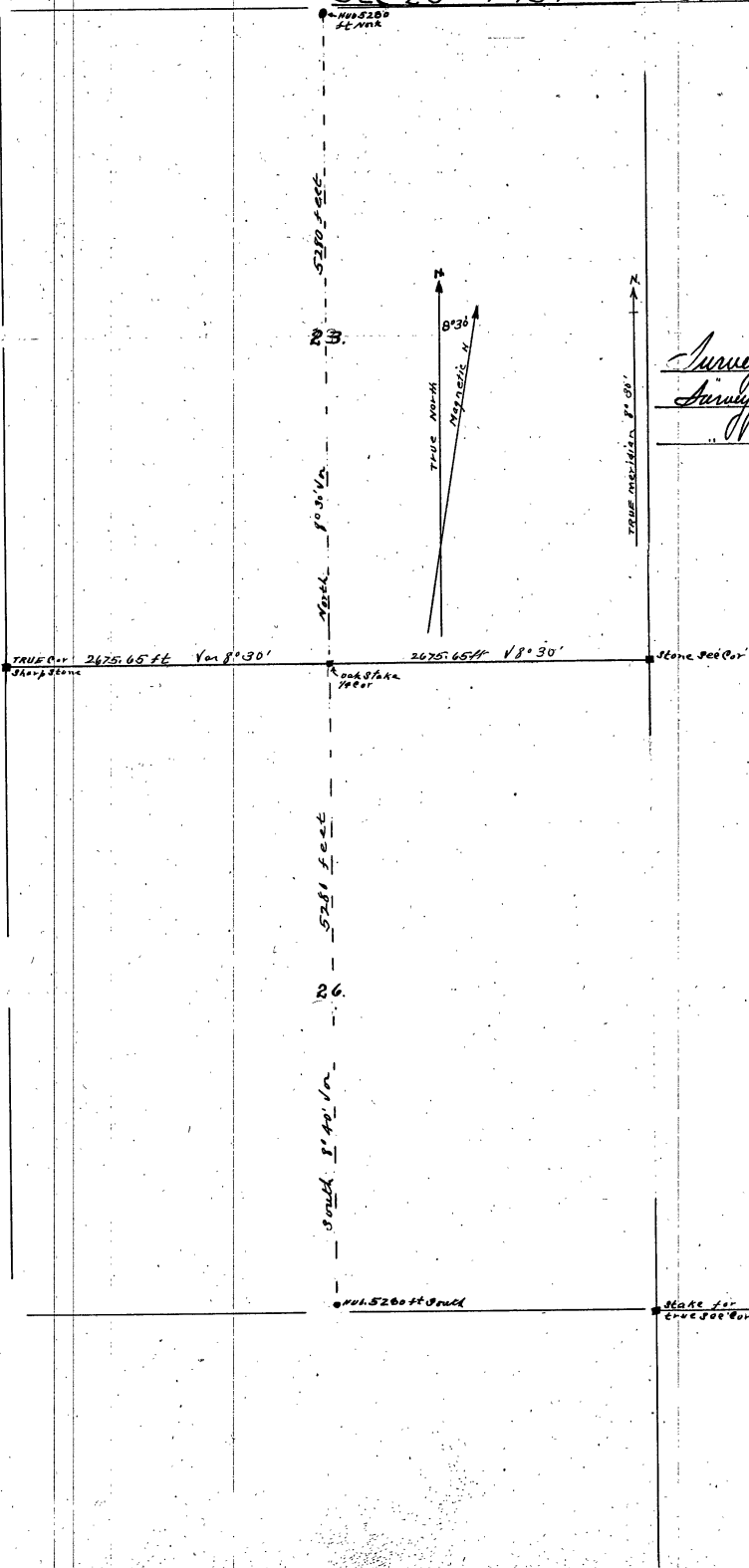
A

PLAT OF

Scale 4 inches = 1 mile

Sec 23 T 137 N R 31 W 5 PM

SURVEY RECORD NO 88.



Survey begun June 12th 1907
 Survey finished June 14th 1907
 Recorded July 31st 1911

John W. Piro
 County Surveyor Don Co Minn

Sec
 36

A

Survey record No 88 Sec 23 T. No 137 N, R No 31 W 5th P. M..

Field notes of the survey of Section No 23 Township No 137 N, Range No. 31 W, 5th P. M. as made by John W. Curo, County Surveyor of Cass Co Minn.

June 12th 1907 O.P. Olson, & O.G. Boquest, Axmen, Ole Sandstrom and I chaining, perfect plumbob line I use a K&E. transit in perfect adjustment and a 100. foot Chicago steel tape:

At the corner to Secs' 22, 23, 26, 27, T 137, R 31 being the SW corner of section 23 Gov't notes call for a post and the following bearing trees: White Birch 8, N 40°E, 18. links, W, Birch 7 N 37° W. 16. links: White birch 12 S 4°E, 25. links. Aspen 9, S 74°W, 20, links. All are gone except the root of the NW and SW old Gov't bearing trees but we find a long sharp field stone buried in the road centre for the true corner: This stone was placed there by James M. Canfield when he was County Surveyor of Cass County, and Jake Huffman assisted in placing it.

Setting transit on a hub marked "O.O." near the N line of Sec 26 we run West on 8° 30' variation: At 586.30 ft set hub: at 3368.10 feet intersect the true stone corner at SW cor of Cor of section 23: Going back to hub O.O. we run East: and at 1980. feet. equals 5348.10 ft set hub true corner to sections 23, 24, 25, 26, 137-31 stands N 12°5'E, 14.90 feet making the total length of the South side of section 23 5351.30 feet.

Coming back to hub 586.30 we measure 107.80 ft West and set hub: then measure N 12°5' E, 7.45 ft and set oak stake for true $\frac{1}{4}$ corner on S side of section 23 with new bearing trees as follows:

Old White pine stub, 16. N 66°38' W, 69. feet Poplar stub 8, N 55°4'E, 44.20 feet. at 8°40' variation.

At the corner to sections 23, 24, 25, 26, T. 137 R. 31, being the S E corner to section 23 Gov't notes call for a post and the following bearing trees: White pine 8, S 79°W, 30. links., Norway pine 6, N 30° E. 40. links White birch 9, S 58°E, 35 links., Aspen 8. N 50°W, 19. links. we find the stump of the white pine and norway bearing trees, plainly marked from which we establish the true corner and set a stone.

June 13th 1907, same crew: Beginning at $\frac{1}{4}$ on South side of sec 23 run N 8° var': at 1320. ft set hub: at 2640. ft set hub at 2960. ft set hub: at 5280 ft set hub for temporary $\frac{1}{4}$ corner on N. side of section 23 find no stake.

June 14th 1907 Beg' at $\frac{1}{4}$ cor' on S side of sec 23 run S. 8° 40' var: at 1320. 2640, 3960, 5280, ft set hubs.

Going to the corner of sections 25, 26, 35, 36, being the SE-cor to sec 26 Gov't notes call for a post and bearing trees as follows: Norway pine 21. N 20°W, 44 links. White pine 7, N 69°E, 105. links Dead white birch 7 S 80°W, 12. links. W birch 6 S 67°E, 20 links. We find the Norway and white pine plainly marked from which we set a stake for the true NW Cor' of Section 36.

Resident witnesses are: Ole Sandstrom, Jake Huffman, O. P. Olson.

Recorded July 31st 1911

John W. Curo
County Surveyor Cass County Minnesota.

Survey record No. 89 Sec 27 T. No. 137 N, R No 31 W 5th P. M.

Field notes of the survey of Section No 27 Township No 137 N, Range No 31 W. 5th P. M. as made by John W. Curo, County surveyor of Cass County Minn.

June 12th 1907 O. P. Olson, & O.G. Boquest, Axmen, Ole Sandstrom and I chaining, perfect plumbob line. I use a K & E. transit in perfect adjustment and a 100. foot Chicago steel tape:

At the corner of Secs' 22, 23, 26, 27, T. 137 R 31 being the NE. corner of section 27 Gov't notes call for a post and the following bearing trees: White Birch 8. N 40°E, 18. links: W. Birch 7. N 37° W, 16 links: White birch 12, S 4°E. 25. links. Aspen 9, S 74° W. 20. lks. All are gone except the root of the NW and SW old Gov't bearing trees but we find a long sharp field stone buried in the road centre for the true corner: This was placed there by James M. Canfield when he was County Surveyor of Cass County and Jake Huffman assisted in placing it.

Setting transit on a hub marked "O.O." near the N line of Sec 26, we run west on 8° 30' variation: At 586.30 ft set hub: at 3368.10 feet intersect the true stone corner at NE Cor. of section 27: Going back to hub O.O. we run East and at 1980. feet equals 5348.10 ft set hub true corner to sections 23, 24, 25, 26, 137- 31 stands N 12° 5'E, 14.90 feet making the total length of the South side of section 23 5351.30 feet.

Coming back to hub 586.30 we measure 107.10 ft West and set hub: then measure N 12° 5'E, 7.45 ft and set oak stake for true $\frac{1}{2}$ corner on S side of section 23 with new bearing trees as follows: Old White pine stub, 16 N 66° 38' W, 69. feet: Poplar stub, N 55° 4' E, 44.20 feet. at 8° 40' variation.

June 15th 1907. Beginning at the NW corner of Section 36 we run West 8 40' var. at 2640. set temp $\frac{1}{2}$ corner: Bearing trees are gone at 5301.80 ft set hub: true NE corner of sections 34, 26, 27, 34, 35, stands North 4 feet. At this point Gov't notes call for: Tamarac 20, S 41° E 40 links: Tamarac 14, S 20 W, 71 links. Elm 12 N 61° W, 65 links. Elm S N. 42° E, 47. links. I find all of the trees and set a good solid pine post for the section corner well into the swamp.

Resident witnesses are: Ole Sandstrom, Jake Huffman, O.P. Olson.

Recorded July 31st 1911

John W. Curo
County Surveyor Cass County Minn.

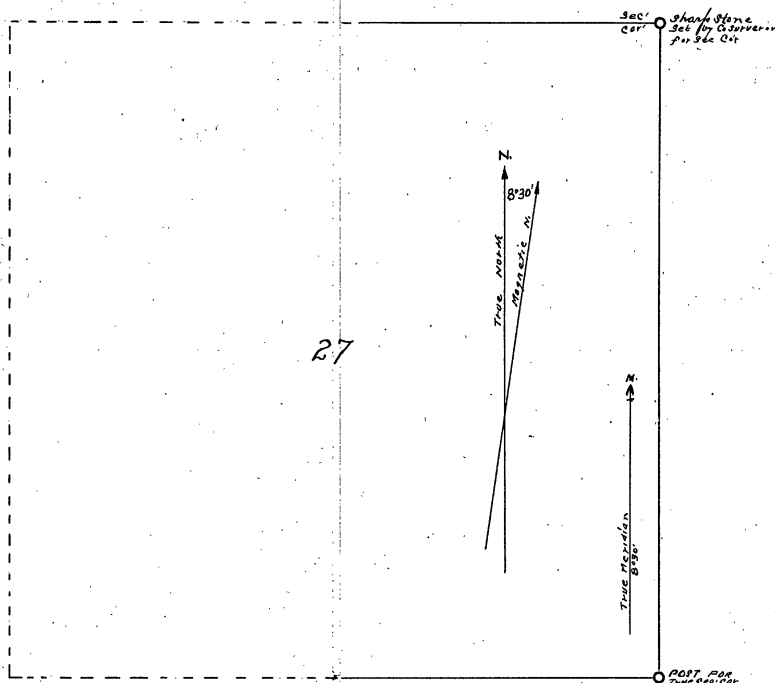
A

PLAT OF

Sec 27 T 137ⁿ R 31^w 5 PM

Scale 6" = 1. mile

SURVEY RECORD No 89.



Survey begun June 13th 1907
 finished " 15 " 1907
 Recorded July 31st 1911
John W. Cress County Surveyor Cress Co. Minn.

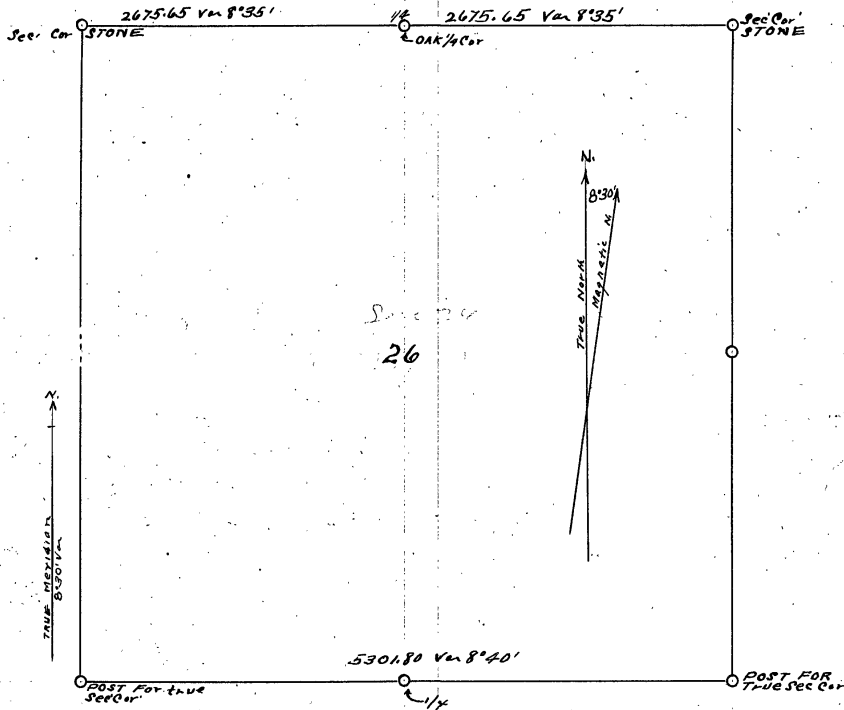
A

Plat of

Sec 26 T 137 N. R 31 W. 5th PM.

Scale 6 inches = 1 mile

SURVEY RECORD No 20



Survey begun June 12th 1907
 " Completed July 15th 1907
 " Recorded July 31st 1911
 John W. Corso, County Surveyor Cross Co. Minn.

A

Survey record No 90 Sec 26 T. No. 137 N, R NO 31 W 5th P.M.

Field notes of the survey of Section No 26 Township No 137 N, Range No 31 W, 5th P.M. as made by John W. Curo, County surveyor of Cass Co Minn.

June 12th 1907 O.P. Olson & O.G. Boquest, Axmen: Ole Sandstrom and I chaining, perfect plumb line I use a K & E. transit in perfect adjustment and a 100 foot Chicago steel tape:

At the corner to Secs: 22, 23, 26, 27, T 137 R 31 being the NW corner of section 26 Gov't notes call for a post and the following bearing trees: White birch 8. N 40°E, 13 links.: W Birch 7 N 37° W 16. links: White birch 12, S, 4°E, 25 links. Aspen 9 S 74°W, 20, lks. all are gone except the root of the NW and SW old Gov't bearing trees but we find a long sharp field stone buried in the road centre for the true corner: This stone was placed there by James M Canfield when he was County Surveyor of Cass County, and Jake Huffman assisted in placing it.

Setting transit on a hub marked "O.O." near the line of Sec 26, we run West on 8° 30' variation: At 586.30 ft set hub: at 3368.10 feet intersect the true stone corner at NW cor of section 26. Going back to hub O.O. we run East and at 1980. feet, equals 5348.10 ft set hub true corner to section 23, 24, 25, 26, 137-31 stands N 12° 5' E 14.90 feet, making the total length of the North side of section 26 5351.30 feet.

Coming back to hub 586.30 we measure 107.80 ft West and set hub: then measure N 12° 5'E, 7.45 ft and set oak stake for true 1/4 corner on N side of section 26 with new bearing trees as follows: Old White pine stub, 16. N 66 38'W, 69, feet: Poplar stub 8° N 55°4'E, 44.20 feet. at 8°40' Variation.

At the corner to sections 23, 24, 25, 26, T, 137 R. 31 being the NE corner to section 26 Gov't notes call for a post and the following bearing trees: White pine 8, S 79 W, 30, links. Norway pine 6 N 30° E, 40 links. White birch 9 S 58° E, 35 links., Aspen 1, N 50 W, 19 links. we find the stump of the white pine and Norway bearing trees, plainly marked from which we establish the true corner and set a stone.

Going to the corner of sections 25, 26, 25, 36, being the SE cor to sec 26 Gov't notes call for a post and bearing trees as follows: Norway pine 22, N 20°W, 44. links White pine 7 N 69°E, 105. links Dead white birch 7, S 80°W, 12.links. W. birch 6, S 67°E, 20links. We find the Norway and white pine plainly marked from which we set a stake for the true SE cor' of section 26.

June 15th 1907. Beginning at the SE corner of Section 26 we run West 8° 40' var. at 2640 set temp 1/4 corner: Bearing trees are gone at 5301.80ft set hub: true SW corner of sections 26, 26, 27, 34, 35, stands North 4. feet. At this point Gov't notes call for: Tamarac 20 S 41°E, 40, links Tamarac 14 S 20°W, 71, links. Elm 12, N 61°W, 65, links. Elm 8 N 42 E, 47 links, we find all the trees and set a good solid pine post for the section corner well into the swamp.

Resident witnesses are: Ole Sandstrom, Jake Huffman, O.P. Olson.

Recorded *July 31st 1911*

John W. Curo
County Surveyor Cass County Minnesota.

Correcting the 1/4 corner on South side of Sec 26: At Hub 2640 West, we chain 10.90 feet West and 2. feet North and set a stake for the true 1/4 corner between sections 26 and 35. Twp 137-31 with new bearings as follows: Norway pine 12. N 41° E 74.10 feet. Pine Stump 6. N 12° 30' W. 20.70 feet to center of stump and tree: Both marked "New B.T." Magnolia on 8° 40'.

A

Survey record No 91 Sec 24. T. No 137 N. R no 31 W, 5th P.M.

Field notes of the survey of Section No 24 Township No 137n, Range No 31 W. 5th P. M. as made by John W. Curo, County surveyor of Cass Co, Minn.

June 12th 1907 O.P. Olson, & O.C. Boquest, Axmen. Ole Sandstrom and I chaining, perfect plumbob line I use a K & E, transit in perfect adjustment in perfect adjustment and a 100. foot Chicago steel tape.

At the Corner to Sects' 22, 23, 26, 27, T. 137 R 31 being the SW corner of section 23 Gov't notes call for a post and the following bearing trees: White Birch 8, N 40 E, 18 links, W. Birch 7, N 37 W, 6 links, White birch 12, S 4 E 25, links Aspen 9 S 74 W, 20 links. all are gone except the root of the NW and SW old Gov't bearing trees but we find a long sharp field stone burried in the road centre for the true corner: This stone was placed there by James M. Canfield when he was County Surveyor of Cass County, and Jake Huffman assisted in placing it.

22-23-26-27

Setting transit on a hub marked "O.O." near the line of Sec 23, we run West on S 30' variation: At 586.30 ft set hub: at 3368.10 feet intersect the true stone corner at SW of section 23: Going back to hub O.O. we run East and at 1980. feet equals 5348.10 ft set hub true corner to sections 23, 24, 25, 26, 137-31 stands N 12 5'E. 14.90 feet making the total length of the South side of section 23 5351.30 feet.

23-24-25-26

Coming back to hub 586.30 we measure 107.80 ft west and set hub: then measure N 12 5'E, 7.45 ft and set oak stake for true $\frac{1}{4}$ corner on South side of section 23 with new bearing trees as follows: Old white pine stub, 16, N 66 38'W, 69 feet: Poplar stub 8, N 55 4' E, 44.20 feet at 8°40 variation.

1/4 23-26

At the corner to sections 23, 24, 25, 26, T. 137R. 31, being the SW corner to section 24 Gov't notes call for a post and the following bearing trees: White pine 8, S 79W, 30 links, Norway pine 6 N 30 E 40 links. White birch 9, S 58 E, 35 links.; Aspen 8 N 50 W, 19 links. we find the stump of the white pine and Norway bearing trees, plainly marked from which we establish the true corner and set a stone Resident witnesses are: Ole Sandstrom Jake Huffman O.P.Olson.

23-24-25-26

Recorded July 31st 1911

John W. Curo
County Surveyor Cass County Minnesota.

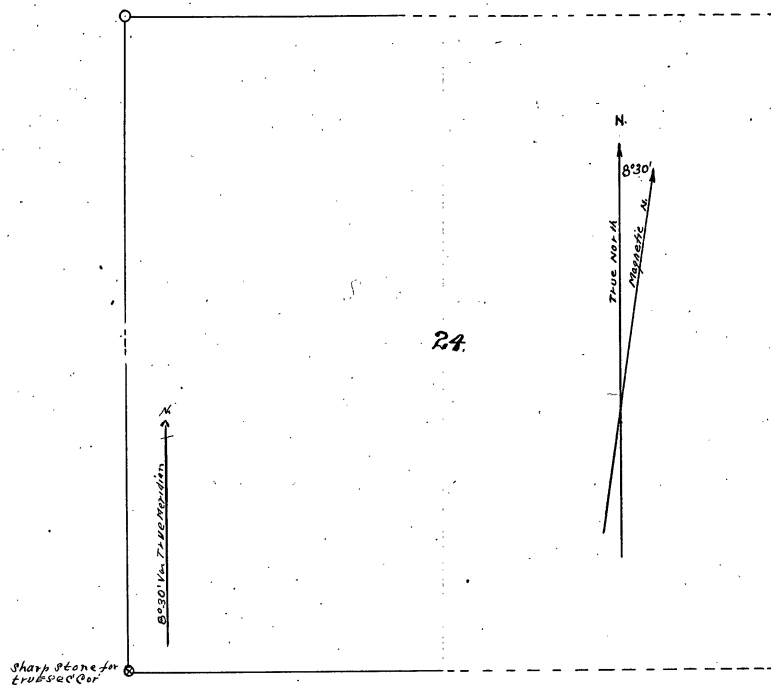
A

PLAT OF

Sec 24 T 137 N R 31 W 5th PM.

Scale 6" = 1 mile

SURVEY RECORD No 91



Survey begun June 17th 1907
 " finished " " " "
 " Recorded July 31st 1911
 John W. Curo, County Surveyor Cass Co. Missouri

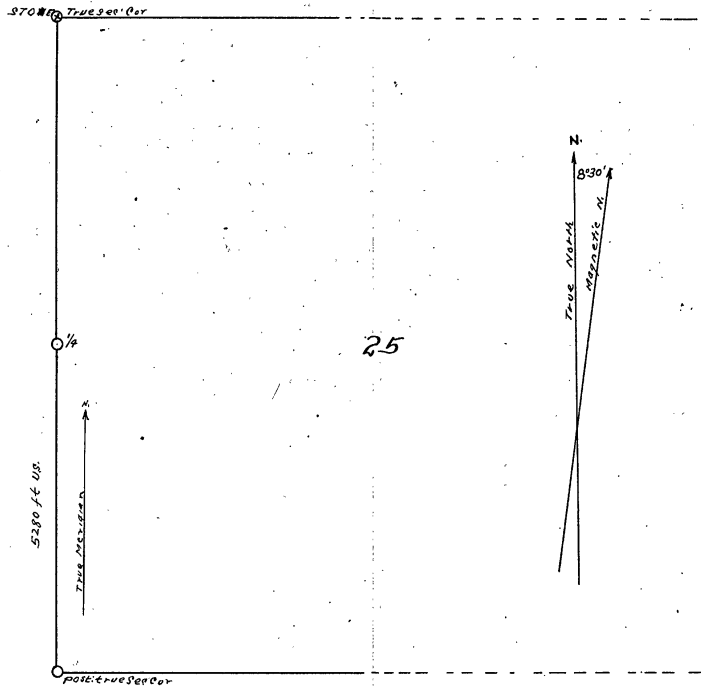
A

PLAT OF

Sec. 25 T. 137 N. R. 31 W. S. 4 P.M.

Scale 6 inches to the mile

SURVEY RECORD No. 22.



Survey begun June 12th 1907
 finished
 recorded July 31st 1911
 John W. Cline Co. Surveyors Cass Co. Minn.

Field notes of survey of Section No 25 Township No 137 N. Range No 31 W. 5th P. M. as made by John W. Curo County surveyor of Cass Co Minn.

June 12th 1907 O.P. Olson & O.G. Boquest Axmen. Ole Sandstrom and I chaining, perfect plumbob line I use a K & E transit in perfect adjustment and a 100. foot Chicago steel tape:

At the Corner to Secs: 22, 23, 26, 27, T 137, R 31 being the NW corner of section 26 Gov't notes call for a post and the following bearing trees: White Birch 8, N 40 E, 18 links.: W Birch 7 N 37 W 16. links: White birch 12 S 4 E, 25, links, Aspen 9, S 74 W, 20. lks. All are gone except the root of the NW and SW old Gov't bearing trees but we find a long sharp field stone burried in the road centre for the true corner: This stone was placed there by James M. Canfield when he was County surveyor of Cass County, and Jake Huffman assisted in placing it.

Setting transit on a hub marked "O.O." near the line of Sec 26, we run West on 8° 30' variation: At 586.30 ft set hub :at 3368.10 feet intersect the true stone corner at NW of section 26: Going back to hub O.O. we run East: and at 1980. feet, equals 5348.10 ft set hub true corner to sections 23, 24, 25, 26, 137- 31 stands N 12° 5' E. 14.90 feet. making the total length of the North side of section 26 5351.30 feet:

Coming back to hub 586.30 we measure 107.80 ft West and set hub: then measure N 12 5'E, 7.45 ft and set oak stake for true $\frac{1}{4}$ corner on N side of section 26 with new bearing trees as follows:

Old White pine stub, 16 N.66 38' W, 69 feet: Poplar stub 8, N 55 4' E, 44.20 feet. at 8 40' variation.

At the corner to sections 23, 24, 25, 26, T. 137 R. 31 being the NW corner to section 25 Gov't notes call for a post and the following bearing trees: White pine 8, S 79 W, 30 links., Norway pine 6 N 30 E, 40. links. White birch 9, S 58 E, 35. links., Aspen 8, N 50 W, 19 links. we find the stump of the white pine and norway bearing trees plainly marked from which we establish the true corner. and set a stone.

Going to the Corner of sections 25, 26, 35, 36, being the SW cor of sec 25 Gov't notes call for a post and bearing trees as follows: Norway pine 12, N. 20° W, 44. links. White pine 7, N 69 E, 105. links. Deep white birch 7, S 80 W, 12. links. W. birch 6, S 67 E, 20. links. We find the Norway and white pine plainly marked from which we set a stake for the true SW corner of section 25.

Resident witnesses are: Ole Sandstrom. Jake Huffman, O.P. Olson .

Recorded July 31st 1911

John W Curo
County Surveyor Cass County Minnesota,

22-23-24-27

23-24-25-26

1/4 lot 23-26

23, 24, 25, 26

25, 26, 35, 36,

Field notes of the survey of section No 36 Township No. 137, Range No 31 W. 5th Principal Meridian as made by John W. Curo, County surveyor of Cass County Minnesota.

June 14th 1907. O.P. Olson axman. O. G. Boquest, ax man, Ora Welker, axman, Ole Sandstrom and my self chaining perfect. We use a Keuffel & Esser transit in perfect adjustment and a 100. foot Chicago steel tape. at the NW corner of section 26 being the corner to sections 25, 26, 35, 36, T 137. R. 31. Government notes call for a post and the following bearing trees: Norway pine 12. N 20° W. 44. links White pine 7. N 69° E, 105 links. W Birch 6 S 67° E, 20. links. Dead White Birch 7, S 80° W, 12 links. We find the Norway and White pine bearing trees standing plainly marked from which we set the corner post by flat measurement from the trees after which the trees stand as follows:

25-26-35-36

Norway pine 12. N 20° W, 44 links, equal 29.04 feet.

White pine 7, 63° 45' E, 105 links, equal 69.30 feet.

June 15th 1907. Welker, Sandstrom, Boquest & Olson: we run West on 8°40' magnetic variation: at 175. ft enter meadow: at 1355.20 ft set hub west of meadow: at 1967. 30 set hub at 2640. set hub for temporary 1/2 corner on the North side of section 35.

26-35 1/2

At this point the notes call for a post and the following trees: White birch 10, S 34° W, 12. links Birch 7. N 38° E, 33 links. all are gone and we continue our line: at 2703.60 ft set hub: at 3133. 30 set hub: at 3865.10 set hub: at 4275.20 ft set hub: at 4868. 70 ft set hub at 5280. ft set hub at 5301.80 feet the true corner sets North 4. feet:

26-27-34-35

At this corner of 26, 27, 34, 35, being the NE corner of sec 34 Gov't notes call for a post and the following trees: Tamarac 20, S 41° E. 40 links. Tamarac 14, S 20° W, 71. links. Elm 12, N 61° W, 65. links. Elm 8, N 42° E, 47. links. we find three of the old Gov't bearing trees from which we set the true corner by proportionate measurement and drive a good solid stake well into the soft swamp, after which the trees stand as follows: Elm 8 N 39°15' E, 29.22 feet distant. Tamarac 20, S 34° 25' E, 26.40 feet distant: Tamarac 14, S 25° 45' W, 44. 15 feet distant.

Correcting back:

At hub 2640. we chain 10.90 feet West and 2 feet North and set the true 1/2 corner on the South side of section 26 T 137, R 31, with new bearing trees as follows: Norway pine 12, N 41 E, 74.10 ft: pine stump 6, N 12°30' W, 20.70 feet to centre of stump and tree. both are marked "new B. T. "

1/2. 26-35

Resident witnesses are O.P. Olson: O. G. Boquest, and Ole Sandstrom.

Recorded

July 31st 1911

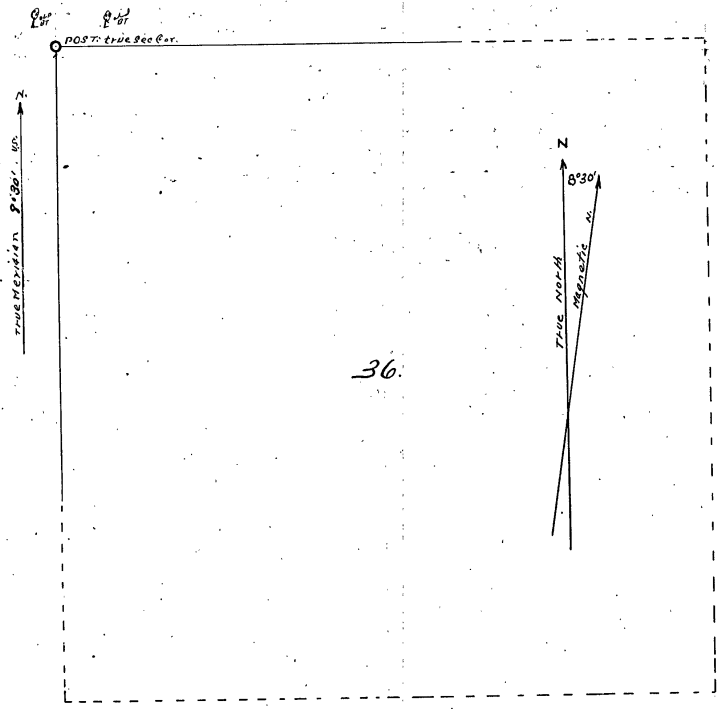
John W Curo
County Surveyor Cass Co Minn.

A

PLAT OF

Sec 36 T 137^N R 31^W 5^{PM}

Scale 6 inches = 1 mile **SURVEY RECORD N^o 93.**



Survey begun June 14th 1907
 finished 15th 1907
 Recorded July 31st 1911
John W. Curo. Co. Surveyors Cass Co. Minn.

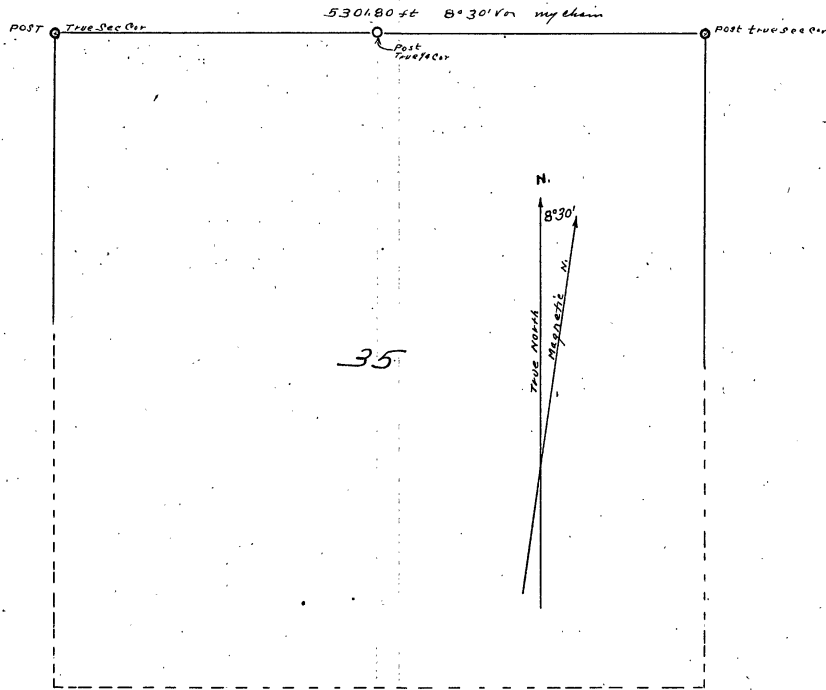
A

PLAT OF

Sec 35 T137N R31W 5 PM

scale 6 inches = 1 mile

SURVEY RECORD No 94



Survey begun June 12th 1907
 Completed Survey " 15 " 1907
 Recorded July 31st 1911
John W. Owen & Son, Surveyors, Cass Co. Minn.

A

Survey record No 94 Sec No 35 T. 137 N R 31 W, 5th P.M.

Field notes of the survey of section No 35 Township No. 137 N. Range No 31 W, 5th Principal Meridian, as made by John W. Curo County surveyor of Cass County Minnesota.

June 14th 1907 O.P. Olson, axman. O.G. Boquest, axman. Ole Sandstrom and my self chaining perfect. We use a Keuffel & Esser transit in perfect adjustment and a 100 foot Chicago steel tape. at the NE corner of section 35 being the corner to sections 25 26, 35, 36, T. 137, R 31. Government notes call for a post and the following bearing trees: Norway pine 12 N 20° W, 44. links. White pine 7 N 69° E, 105 links. W. birch 6 S 67° E, 20 links Dead White Birch 7 S 80° W, 12 links. We find the Norway and White pine bearing trees standing plainly marked from which we set the corner post by flat measurement from the trees after which the trees stand as follows:

Norway pine 12 N 20° W, 44 links, equal 29.04 feet.
White pine 7, N 63° 45' E, 105 links, equal 69.30 feet

June 15th 1907. Welker, Sandstrom. Boquest & Olson: we run West on 8° 40' magnetic variation: at 175 ft enter meadow: at 1355.20 ft set hub West of meadow: at 1967.30 set hub at 2640. set hub for temporary $\frac{1}{4}$ corner on the North side of section 35.

At this point the notes call for a post and the following trees: White birch 10, S 34° W. 12 links. Birch 7, N 38° E, 33 links. all the trees are gone and we continue our line: at 2703.60 ft set hub: at 3133.30 set hub: at 3865.10 set hub: at 4275.20 ft set hub. at 4868.70 ft set hub: at 5280. ft set hub: at 5301.80 feet the true corner sets North 4, feet.

At this corner of 26, 27, 34, 35, being the NW corner of sec 35 Gov't notes call for a post and the following trees: Tamarac 20, S 41° E, 40 links. Tamarac 14, S 20° W, 71. links, Elm 12, N 61° W, 65. links. Elm 8, N 42° E, 47. links. we find three of the old Gov't bearing trees from which we set the true corner by proportionate measurements and drive a good solid stake well into the soft swamp, after which the trees stand as follows: Elm 8, N 39° 15' E, 29.22 feet distant. Tamarac 20 S 34° 25' E, 26.40 feet distant: Tamarac 14, S 25° 45' W, 44.15 feet distant.

Correcting back:

At hub 2640 we chain 10.90 feet West and 2 feet North and set the true $\frac{1}{4}$ corner on the N side of section 35 T 137. R 31 with new bearing trees as follows:

Norway pine 12 N 41 E, 74.10 ft: pine stump 6 N 12° 30' W, 20.70 feet to centre of stump and tree both are marked " new B.T."

Resident witnesses are: O.P. Olson, O.G. Boquest, and Ole Sandstrom.

Recorded July 31st 1911

John W. Curo
County surveyor Cass Co Minn.

25.26.35/36

1/4 26-35

26.27.34.35

1/4 26-35

Field notes of the survey of section No 34 Township No 137 N. Range No 31 W. 5th Principal Meridian, as made by John W. Curo County surveyor of Cass County Minnesota.

July 14th 1907. O P. Olson, axman. O G. Boquest. axman. Ora Welker, axman. Ole Sandstrom and my self chaining perfect. We use a Keuffel & Esser transit in perfect adjustment and a 100 foot Chicago steel tape. at the SE corner of section 26 being the corner to sections 25, 26, 35, 36, T 137. R 31. Government notes call for a post and the following bearing trees:

25, 26, 35, 36.

Norway pine 12. N 20° W, 44 links. White pine 7. N 69° E, 105 links. W Birch 6 S 67° E, 20 links, dead white Birch 7. S 80° W, 12 links. We find the Norway and White pine bearing trees standing plainly marked from which we set the corner post by flat measurement from the trees after which the trees stand as follows:

Norway pine 12. N 20° W, 44 links equal 29.04 feet.

White pine 7 N 63°45'E, 105, links equal 69.30 feet.

June 15th 1907. Welker, Sandstrom. Boquest & Olson: we run West on 5°40' magnetic variation: at 175. ft enter meadow: at 1355.20 ft set hub west of meadow: at 1967.30 set hub at 2640. set hub for temporary $\frac{1}{4}$ corner on the South side of section 26.

26-35 $\frac{1}{4}$

At this point the notes call for a post and the following trees: White birch 10 S 34°W, 12 links. B Birch 7 N 38° E, 33. links. all are gone and we continue our line: at 2703.60 ft set hub: at 3133.30 set hub: at 3865.10 set hub: at 4275.20 ft set hub: at 4868.70 ft set hub: at 5280. ft set hub at 5301.80 feet the true corner sets North 4, feet.

26, 27, 34, 35.

At this corner of 26, 27, 34, 35, being the NE corner of sec 34 Gov't notes call for a post and the following trees: Tamarac 20, S 41°E, 40 links Tamarac 14, S 20°W, 71. links Elm 12, N 61° W, 65 links. Elm 8, N 42°E, 47. links. we find three of the Old Gov't bearing trees from which we set the true corner by proportionate measurement and drive a good solid stake well into the soft swamp, after which the trees stand as follows: Elm 8 N 39°15'E, 29.22 feet distant. Tamarac 20 S 34°25'E, 26.40 feet distant: Tamarac 14 S 25°45' W, 44.15 feet distant.

Correcting back:

At hub 2640. we chain 10.90 feet West and 2 feet North and set the true $\frac{1}{4}$ corner on the South side of section 26 T. 137 R 31 with new bearing trees as follows:

Norway pine 12, N 41E. 74.10 ft pine stump 6 N 12°30'W, 20.70 feet to centre of stump and tree. both are marked " new B.T."

26-35. $\frac{1}{4}$

Resident witnesses are: O.P.Olson: O.G.Boquest and Ole Sandstrom.

Recorded

July 31st 1911 -

John W. Curo
County Surveyor Cass Co, Minn.

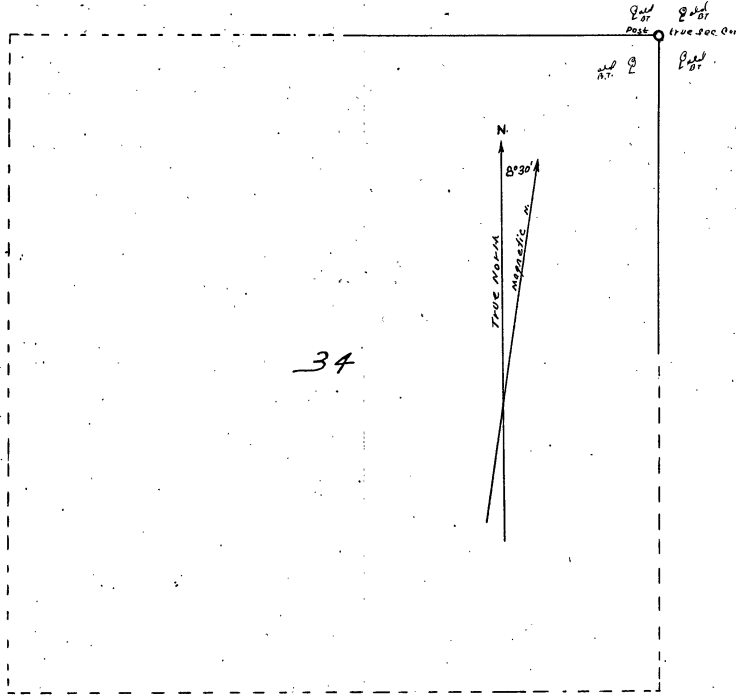
A

PLAT OF

Sec 34 T 137 N R 31 W 5 PM

scale 6 inches = 1 mile

SURVEY RECORD No 95



Survey begun June 14th 1907
 " finished " 15 " 1907
 " Recorded July 31st 1911
 John W. Curo. Co. Surveyor Cass Co. Minn.

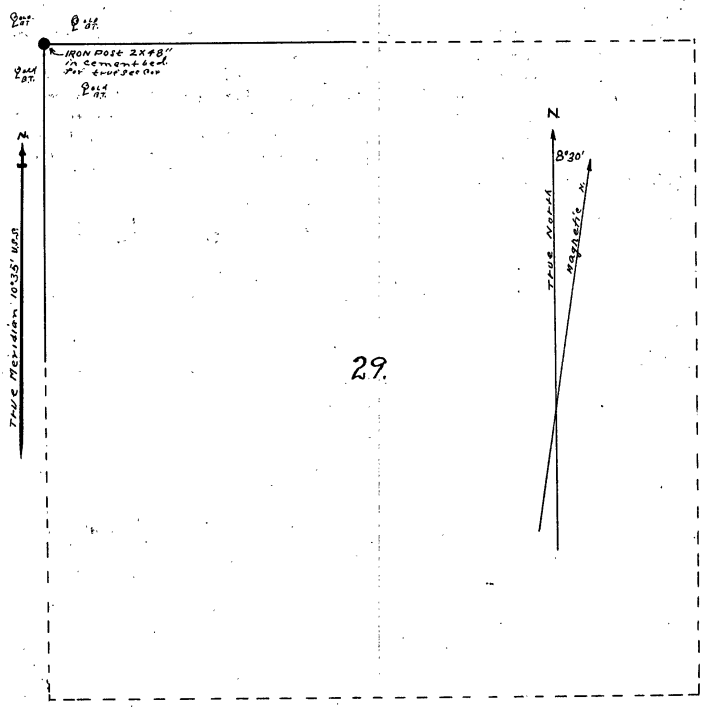
A

PLAT OF

SEC 29, T. 137 N., R. 32 W., 5 P. M.

Scale 6 inches = 1 mile

SURVEY RECORD NO 96.



Survey begun July 16 1911
 finished July 23 "
 Recd 31st "
John W. Curis County Surveyors Co. Mo.

PLAT OF
See Carried to Page This Book
29 " " 582 " "

A

Field notes of the survey of section No 29 Township No . 137 N, Range No. 32 W, 5th Principal

Meridian, as made by Harry S. Todd, Deputy County Surveyor of Cass Co Minn and examined, approved and recorded by John W. Curo County surveyor Cass Co Minn.

July 16th 1911. Harry S. Todd, transitman, and chainman, O Rand chainman R, Rasmunson and Ed Ellis Axmen: We use a Keuffel and Esser engineers' transit in perfect adjustment and a 300 foot Chicago steel tape.

At the corner of sections 19, 20, 29, 30, T. 137, R 32, being the NW corner of section 29 the notes of the original Gov't survey call for a post and the following bearing trees:

Tamarac 8, N 11°W, 12 links. Tamarac 7, S 65°W, 58. links.
" 8. S 68°E, 43 links. W Birch 8, N 82°E, 75 links.

We find all the trees but they are down and we set a wood stake for the true corner, and run West on 8°30' var: at 625.50ft set hub : at 1661. ft set hub: at 2566. 80 feet the true 1/4 corner sets South 12.45 feet.

At the 1/4 corner between 19 and 30. Gov't notes call for Aspen 7, N 37.1/2 E, 212 links. Jack pine 12 S 25 E, 385. links. We find the SE bearing tree from which we set the true corner by driving a wood stake and run West 8°25' variation. at 664.70 set hub: at 1290.60 set hub: at 1935.80 set hub: at 2717.80 section corner sets North 44. feet..

At the NW corner of Section 30 Gov't notes call for: Tamarac 14, S 17°E, 231 links. Tamarac 7, S 21/2° W, 261 links " 10 N 15°E, 258. links, " 8 N 11° W, 245 links. We find the NE tree from which we set the true corner and find old stake. 6-

July 17th, 1911. Ed Wilson & Ed Ellis, axmen. R. Ras munson & Ole Rand chainmen Begining at the NW corner of section 29 run North on 8°30' var': at 2614. feet the 1/4 corner on West side of section 20 bears East 5.55 ft We find both old Gov't bearing trees and set a stake for the true 1/4 post .

July 23rd, 1911 Ellis & Rasmunson, Chainmen, Todd, Transitman. at the corner to sections 19, 20, 29, 30, we pull up the wood stake and set an iron pipe 2 by 4 1/2 inches in size into a bed of cement for the true corner. Resident witnesses Ed. Ellis O. Rand, Ed Wilson.

Recorded July 31st 1911

John W Curo
County Surveyor Cass Co, Minn.

19-20-29-30

1/4 19-30

S.W. Cor 19

N.W. Cor 30

19-20-29-30

19-20 1/4

19-20-29-30

Notes of
Sec Carried to Page This Book
29 " " 572 " "

A

Survey record N 97 Sec No 30. T 137 N R No, 32 W. 5th P. M.

Field notes of the survey on section No 30 Township No 137 N. Range 32 W, 5th Principal Meridian, as made by Harry S. Todd, Deputy County Surveyor of Cass Co Minn and examined, approved and recorded by John W. Curo, County surveyor Cass Co Minn.

July 16th 1911. Harry S. Todd transitman and chairman, O Rand Chinman; R Rasmunson and Ed Ellis axmen; Weisse a Keuffel and Esser engineers' transit in perfect adjustment and a 300 foot Chicago steel tape.

At the corner of sections 19 20 29, 30, T 137, R 32, being the NE corner of section 30 the notes of the original Gov't survey call for a post and the following bearing trees:

Tamarac 8, N 11°W, 12, links Tamarac 7, S 65° W, 58 links.

" 8, S 68°E, 43 links. W Birch 8, N 82° E, 75 links.

We find all the trees but they are down and we set a wood stake for the corner and run West on 8° 30' Var: at 625.50 ft set hub: at 1661 ft set hub: at 2566.80 feet the true $\frac{1}{4}$ corner sets South, 12.45 feet.

At the $\frac{1}{4}$ corner between 19, and 30, Gov't notes call for: Aspen 7, N 37 $\frac{1}{2}$ ° E. 212 links. Jack pine 12 S 25° E, 385 links We find the SE bearing tree from which we set the true corner by driving a wood stake, and run West 8°25' variation. at 664.70 set hub: at 1290.60 set hub at 1935 set hub: at 2717.80 section corner sets North 44. feet.

At the NW corner of Section 30 Gov't notes call for:

Tamarac 14, S 17°E, 251. links Tamarac 7, S 2 $\frac{1}{2}$ ° W, 261 links,

" 10, N.15° E, 258 links, " 8, N 11°W, 245 links,

We find the NE tree from which we set the true corner and find the old stake.

July 17th 1911. Ed Wilson & Ed Ellis axmen. R Rasmunson & Ole Rand chainmen. Beginning at the NE corner of section 30 run North on 8°30' var' at 2614 feet the $\frac{1}{4}$ corner on East side of section 19 bears East 5.55 ft We find both old Gov't bearing trees and set a stake for the true $\frac{1}{4}$ post.

July 23rd 1911 Ellis & Rasmunson chainmae Todd transitman. at the corner to section 19 20.29, 30 we pull up the wood stake and set an iron pipe 2 by 48 inches in size, into a bed of cement for the true corner. Resident witnesses are: Ed Ellis O. Rand Ed Wilson.

Rescinded July 31st 1911

John W Curo
County Surveyor Cass Co Minn.

19-20-29-30

1/4 19-30

S.W.Cor' 19

N.W.Cor' 30

19-20-29-30

1/4 19-20

19-20-29-30

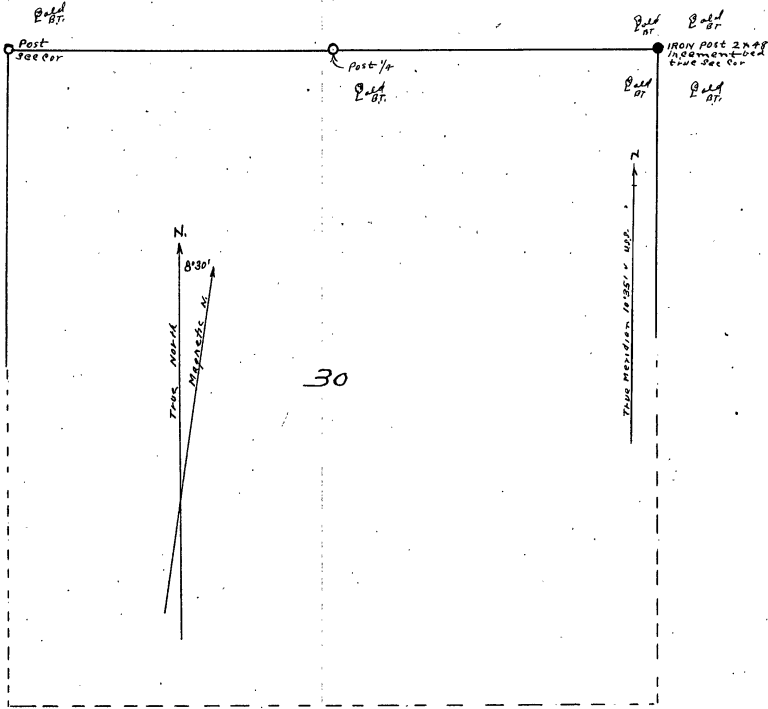
A

PLAT OF

Sec 30 T. 137 N. R. 32 W. 5 P.M.

Scale 6" = 1. mile

SURVEY RECORD No 97.



Survey begun	July	16	1911
Finished	"	23	"
Recorded	"	31	"

John W Cross Co Surveyors Cross Co Minn

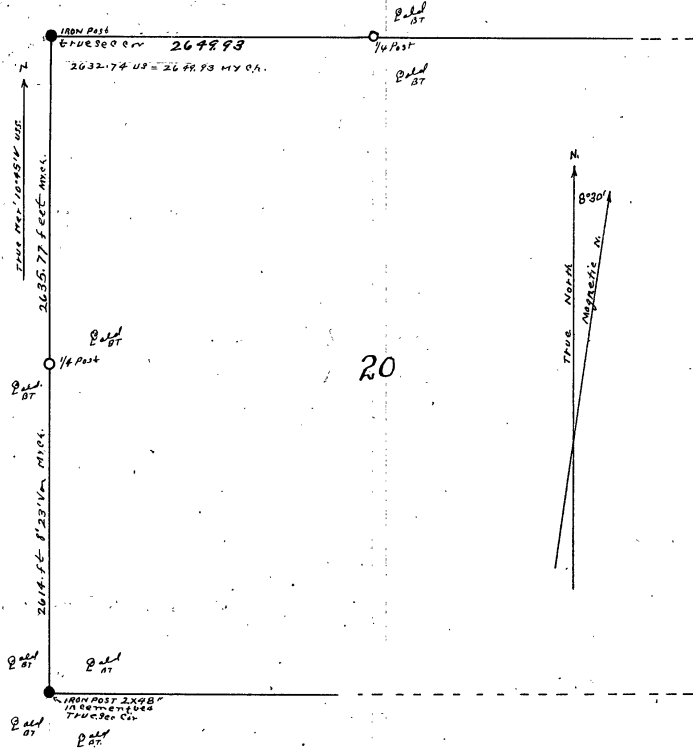
A

PLAT OF

SEC 20, T137N, R 32W, S 10M.

Scale 6" = 1 mile

SURVEY RECORD No 98.



Survey begun July 16th 1911
 Completed " 25th "
 Recorded " 31st "
John W. Cress Co. Surveyors, Cass & Minn.

- PLAT OF -	
Sec	Carried to Page This Book
20	" " 582 " "

A

Survey record N 98 Sec No 20. T 137 N R No 32 W, 5th P. M.

Field notes of the survey of section No 20 Township No 137 N Range No 32 W, 5th Principal Meridian as made by Harry S.W Todd, Deputy County Surveyor of Cass Co. Minn., and examined, approved and recorded by John W. Curo County surveyor Cass Co. Minn.

July 16th 1911. Harry S. Todd, transitman and chairman, O Rand chairman: R Rasmunson and Ed Ellis axmen, We use a Keuffel and Esser engineers' transit in perfect adjustment and a 300 foot Chicago steel tape.

At the corner of sections 19, 20 29, 30, T 137 R 32 being the SW corner of section 20 the notes of the original Gov't survey call for a post and the following bearing trees:

Tamarac 8, N 11 W, 12 links Tamarac 7, S 65 W, 58 links.

" 8, S 68 E, 43 links W Birch 8, N, 82 E, 75 links. We find all the trees but they are down and we set a wood stake for the true corner.

July 17th 1911. Ed Wilson & Ed Ellis axmen. R Rasmunson & Ole Rand chainmen, Beginning at the SW corner of section 20 run North on 8°30' var' at 2614 feet the 1/4 corner on the West side of section 20 bears east 5.55ft We find both old Gov't bearing trees and set a stake for the true 1/4 post from which we run North on 8°30' var: at 2640 ft set temporary corner to sections 17 18, 19 20. all bearings are gone we continue North: at 5271.55 ft the 1/4 corner between 17 and 18 bears West 32 ft. At this point we find the old Gov't trees from which we set the true corner.

July 22nd 1911 same crew Beginning at the 1/4 corner between sections 17 and 20 which we set from both old Gov't bearing trees, we run West 8°30' var: 7981ft at which point the NW corner of sec 19 bears North 259.50 ft Could find no evidence of old Gov't post or trees at 1/4 cor' between sections 18 and 19.

July 23rd, 1911 Ellis & Rasmunson, chairman. Todd Transitman, by proportionate measurements in all directions we establish the true corner to sections 17, 18, 19, and 20 and place a 2. inch iron pipe 4 ft. in length set in a bed of cement for the true corner, and at the corner to sections 19, 20, 29, 30, we pull up the wood stake and set an iron pipe 2. by 48 inches in size into a bed of cement for the true corner, Resident witnesses are Ed Ellis O Rand Ed Wilson.

Recorded

County Surveyor Cass Co Minn.

19-20-29-30

1/4 19-20

17-18-19-20

1/4 17-18

17-20 1/4

18-19

17-18-19-20

19-20-29-30

Recorded July 31st 1911.

John W Curo, County Surveyor Cass Co Minn

NOTES OF
Sec Carried to Page This Book
20 " " 573 " "

Field notes of the survey of section No 19 Township 137 N, Range No 32 W. 5th Principal Meridian, as made by Harry S Todd Deputy County Surveyor of Cass County Minn, and examined, approved and recorded by John W. Caro, County surveyor Cass, Co Minn.

July 16th, 1911. Harry S Todd, transitman and chainman. O. Rand chainman R Rasmunson and Ed Ellis axmen: We use a Keuffel and Esser engineers' transit in perfect adjustment and a 300 foot Chicago steel tape.

At the corner of sections 19, 20, 29, 30, T 137, R 32 being the SE corner of section 19 the notes of the original Gov't survey call for a post and the following bearing trees:

Tamarac 8 N 11 W, 12 links; Tamarac 7, S 65 W, 58 links.
" 8 S 68 E 43 links W. Birch 8 N 82 E, 75 links.

We find all the trees but they are down and we set a wood stake for the true corner and run west on 8°30' var: at 625.50 ft set hub: at 1661 ft set hub: at 2566. 80 feet the true 1/4 corner sets South 12.45 feet.

At the 1/4 corner between 19 and 30. Gov't notes call for: Aspen 7 N 37 1/2 E, 212 links. Jack pine 12 S 25E, 385 links. We find the SE bearing tree from which we set the true corner by driving a wood stake 8°25' variation: at 664.70 set hub at 1290.60 set hub at 1935. 80 set hub at 2717. 80 section corner sets North 44 feet. At the SW corner of section 19 Gov't notes call for Tamarac 14 S 2 1/2 E, 231 links Tamarac 7 S 2 1/2 W, 261 links " 10 N 15 E 258 Links. " 8 N 11 W, 245 links. We find the NE tree from which we set the true corner and find the old stake.

July 17th 1911 Ed Wilson & Ed Ellis axmen. R Ruamanson & Ole Rand chainmen. Beginning at the SE corner of section 19 run North on 8°30' var: at 2614 feet the 1/4 corner of East side of section 19 bears East 55°55' ft. We find both old Gov't bearing trees and set a stake for the true 1/4 post from which we run North on 8°30' var: at 2640 ft set temporary corner to sections 17, 18, 19, 20, all old bearings are gone and we continue North, at 5271.55 ft the 1/4 corner between 17 and 18 bears West, 32 ft. At this point we find the old Gov't trees from which we set the true corner.

July 22nd 1911, same crew: Beginning at the 1/4 corner between sections 17 and 20. which we set from both old Gov't bearing trees, we run West 8°30' var: 7981 ft at which point the NW corner of sec 19 bears North 259.50 ft. Could find no evidence of the old Gov't post or trees at the 1/4 cor' between sections 18, and 19.

July 23, 111 Ellis & Rumanson chainmen Todd transitman by proportionate measurements in all directions we establish the true corner to sections 17, 18, 19, & 20 and place a 2 inch pipe 4 ft. in length, set in a bed of cement for the true corner, and at the corner to sections 19, 20, 29, 30. we pull up the wood stake and set an iron pipe 2 by 48 inches in size, into a bed of cement for the true corner. Resident witnesses are Ed Ellis O Rand Ed Wilson.

Recorded

County Surveyor Cass Co, Minn.

Recorded July 31st 1911

John W. Caro. Co Surveyor Cass Co Minn

19-20-29-30

19-30 1/4

SW Cor 19

NW Cor 30

19-20-29-30

19-20 1/4

17-18-19-20

17-18 1/4

17-20 1/4

SW Cor 18

NW Cor 19

17-18-19-20

19-20-29-30

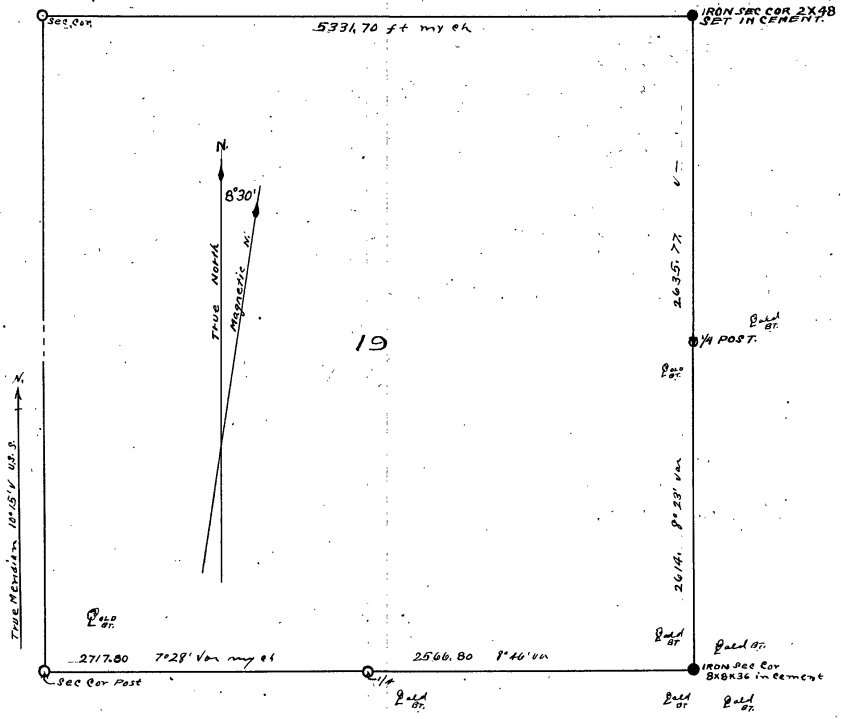
A

PLAT OF

Sec 19, T. 137 N., R. 32 W. 5. P.M.

Scale 6" = 1 mile

SURVEY RECORD NO 99.



Survey begun July 16th 1911
 Completed " 23rd "
 Recorded " 31st "
 John W. Curo. Co Surveyors Cass Co. Missouri

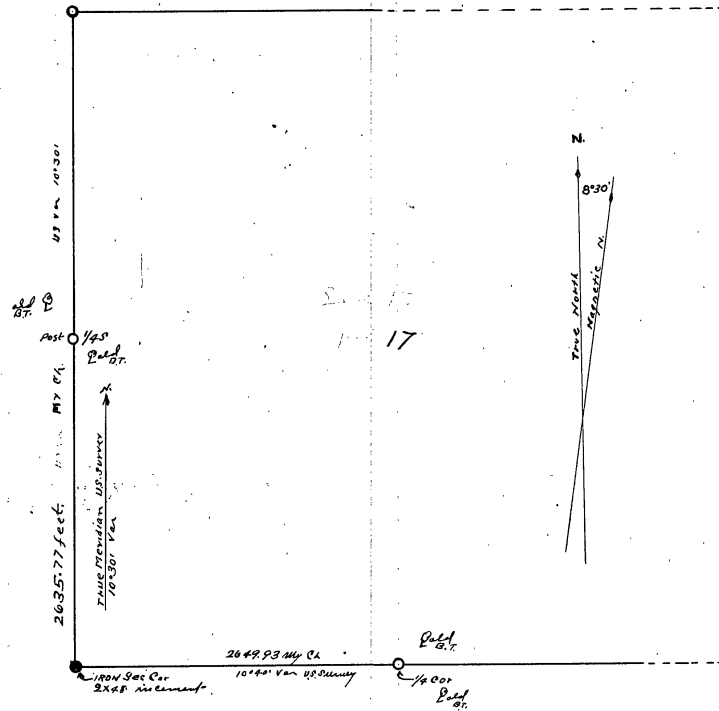
A

PLAT OF

Sec 17, T. 137 N., R. 32 W., S. 5 P.M.

Scale 6" = 1 mile

SURVEY RECORD No 100.



Survey begun July 17th 1911
 Completed " 28th "
 Recorded " 31st "

John W. P. & Co. Surveyors Cors. C. Minn.

PLAT OF
Sec' Carried to page of this book
17 " " 592 " " "

Field notes of the survey of section No 17 Township No 137 N Range No 32 W, 5th Principal Meridian as made by Harry S Todd, Deputy County Surveyor of Cass Co, Minn and examined, approved and recorded by John W. Curo County surveyor Cass Co, Minn.

July 17th 1911. Harry S Todd Transitman We use a Keuffel and Esser engineers' transit in perfect adjustment and a 300 foot Chicago steel tape. Ed Wilson & Ed Ellis axmen, R Rasmuson & Ole Rand chainmen Beginning at the SE corner of section 19 run North on 8°30' var: at 2614 feet the 1/4 corner of East side of section 19 bears East 5.55 ft We find both old Gov't bearing trees and set a stake for the true 1/4 post from which we run North on 8° 30' var: at 2640 ft set temporary corner to sections 17, 18 19 20, all old bearings are gone and we continue North: at 5271.55 ft the 1/4 corner between 17, and 18 bears West 32 ft At this point we find the old Gov't trees from which we set the true corner.

July 22nd 1911, same crew: Beginning at the 1/4 corner between sections 17. and 20 which we set from both old Gov't bearing trees we run West 8°30' var: 7981 ft at which point the NW corner of sec 19 bears North 259.50 ft. Could find no evidence of the old Gov't post or trees at the 1/4 cor'. between sections 18, and 19.

July 23rd, 1911 Ellis & Rasmuson chainmen, Todd transitman by proportionate measurements in all directions we establish the true corner to sections 17, 18, 19, and 20, and place a 2 inch iron pipe 4 ft in length, set in a bed of cement for the true corner, and at the corner to sections 19, 20. 29. 30 we pull up the wood stake and set an iron pipe 2 by 48 inches in size, into a bed of cement for the true corner. Resident witnesses are Ed Ellis O Rand Ed Wilson.

Recorded July 31st 1911

John W Curo
County surveyor of Cass Co, Minn.

Notes of -	
Sec	Carried to Page of Mr. Book
17	" " 592 " " "

19-20-29-30

19-20 1/4

17-18-19-20

17-18 1/4

17-20 1/4

18-19

17-18-19-20

19-20-29-30

Field notes of the survey of section No 18 Township No 137 W, Range No 32 W, 5th Principal Meridian as made by Harry S Todd, Deputy County Surveyor of Cass Co Minn and examined approved and recorded by John W, Curo County Surveyor of Cass Co Minn.

July 17th 1911. Harry S. Todd transitman We use a Keuffel and Esser engineers' transit in perfect adjustment and a 300foot Chicago steel tape.

Ed Wilson & Ed Ellis axmen R Rasmanson & Ole Rand chainmen, Beginning at the SE corner of section 19 run W orth on $8^{\circ}30'$ var': at 2614 feet the $\frac{1}{4}$ corner on E side of section 19: bears East 5.55 ft We find both old Gov't bearing trees and set a stake for the true $\frac{1}{4}$ post from which we run North on $8^{\circ}30'$ var': at 2640 ft set temporary corner to sections 17, 18, 19, 20, all old bearings are gone and we continue North: at 5271.55 ft the $\frac{1}{4}$ corner between 17 and 18 bears West: 32 ft At this point we find the old Gov't trees from which we set the true corner.

July 22nd 1911, same crew Beginning at $\frac{1}{4}$ corner between sections 17 and 20 which we set from both old Gov't bearing trees we run West $8^{\circ}30'$ var' 7981 ft at which point the SE corner of sec 18 bears North 259.50 ft Could find no evidence of the old Gov't post or trees at the $\frac{1}{4}$ cor' between sections 18 and 19.

July 23rd Ellis & Rasmanson, chainmen. Todd transitman by proportionate measurements in all directions we establish the true corner to sections 17, 18, 19, and 20, and place a 2 inch iron pipe 4 ft in length, set in a bed of cement for the true corner, and at the corner to sections 19, 20, 29 30 we pull up the wood stake and set an iron pipe 2 by 48 inches in size, into a bed of cement for the true corner.

Recorded *July 31st 1911*

John W Curo
County surveyor Cass Co Minn.

19-20-29-30

19-20 $\frac{1}{4}$

17-18-19-20

17-18 $\frac{1}{4}$

17-20 $\frac{1}{4}$

18-19

17-18-19-20

19-20-29-30

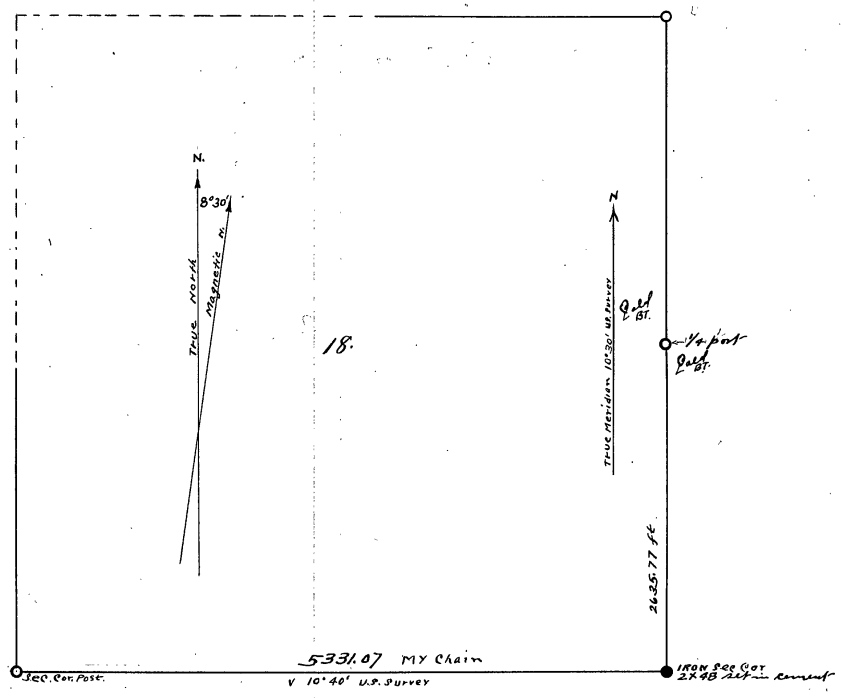
A

PLAT OF

Sec 18 T. 137 N R 32 W 5 P.M.

Scale 6" = 1. mile

SURVEY RECORD No 101.



Survey begun	July 17 th	1911
" finished	" 23 rd	1911
" Recorded	" 31 st	1911

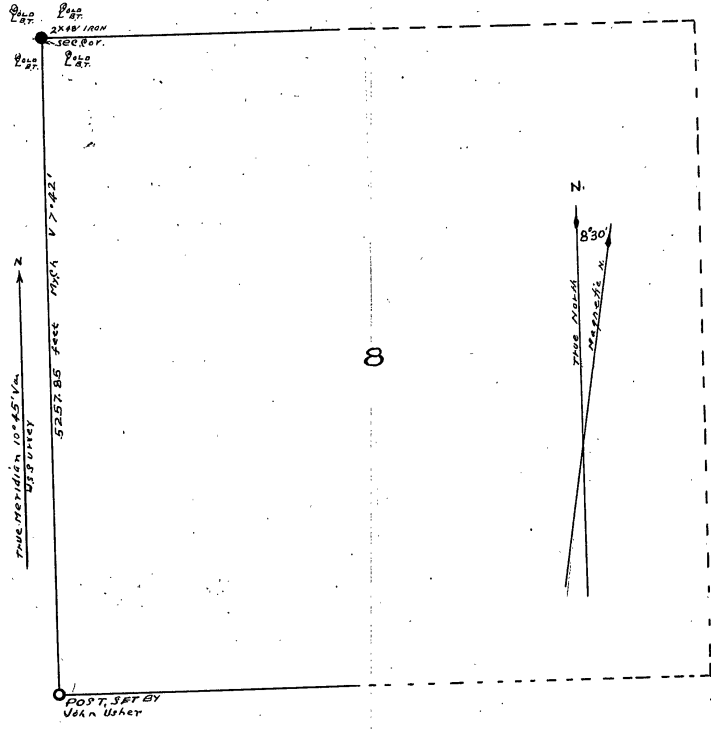
John W. Curo. Co Surveyor Cass Co. Missouri

A

PLAT OF

Section 8, T. 137 N. R. 32 W. 5 P.M.

Scale 6 inches = 1/2 mile SURVEY RECORD No 102.



Survey begun July 19th 1911
 " Completed " 23 " "
 " Recorded " 31 " "
 John W. Curo, Co. Surveyor Cass Co. Miss.

PLAT OF
 Sec. Carried To Page of this Book
 8 " 572 " "

Field notes of the survey of Section No 8 Township No 137 N, Range No 32, W 5th Principal Meridian as made by Harry S Todd, Deputy County Surveyor of Cass County Minnesota, and examined approved and recorded by John W. Curo, County Surveyor of Cass County Minnesota:

July 19th 1911 Harry S Todd transitman Ed Wilson and Ed Ellis, axmen: Ole Rand and R Rasmunson chainmen: We use a Keuffel and Esser engineers' transit in perfect adjustment, and a 300 foot Chicago steel tape:

17-18 1/4

At the 1/4 corner between sections 17 and 18 137 32, Gov't notes call for : Black Ash 5 S 25° E 35 lks: Tamarac 10 N 60° W, 46. links. we find both bearing trees, one plainly marked and standing, and the stump of the other tree, from which we set a hub for the true 1/4 corner and run North on 8°30' variation: at 2636.75 feet a stake set by J. Usher a surveyor, sets 22.75 ft East. At this corner of section 7, 8, 17, and 18, Gov't notes call for: Dead Spruce 7, N 23° W, 32 lks. Dead Spruce 8, S 62° W, 27. lks. Dead spruce 6, S 44° E, 42 links, White pine 17, N 64°E, 66 lks.

7-8-17-18

All of these trees seem to be gone, but as every one here seems to think this post is correct I decide to use it for present, but refuse to set an iron corner until I have time to investigate as to whether it is correct. I set the transit over Ushers stake and run N. on 8°30' variation: At 300 ft set stake, at 438.25 ft set hub: at 600. enter swamp: at 750, 1v same: at 900. stake at 977 hub: at 1200 stake, at 1500-stake, at 1621.45, hub, at 1800, stake: 2100 stake, at 2107, 30 hub at 2400 stake Quit for night.

7-8 1/4

July 20th 1911, same crew continuing: at 2640.50 set hub near 1/4 corner between sections 7. and 8. at which point Gov't notes call for: Dead Balsam 8, N 86° W, 112 links Dead Balsam 10, N 52° E 41 lks Can find nothing and continue our line: At 3650 ft enter swamp, bears E & W.: at 3816.95 hub in Swamp at 3900, stake 4200 stake: 4955.10 hub at 5257. 85 ft true corner sets East 74. 50 ft. at this corner of sections 5, 6, 7, 8, Gov't notes call for: Tamarac 10, S 32° E, 9. Tamarac 8, N. 69° E 27. Tam' 9, N 10° W, 37. Tam' 14 S 74W, 45lks.

5-6-7-8

We find all the trees which check out perfect from which we set a wood stake for the true corner. July 23rd 1911 Ellis Rasmunson, Todd, pull up the wood stake at the NW corner of section 8 and set a 2 inch by 48 inch iron pipe in a bed of cement for true corner.

Resident witnesses are: Ed Ellis, R Rasmunson, Ed Wilson.

Recorded July 31 1911

County Surveyor Cass Co Minn.

- NOTES OF -
Sec Carried to Page of This Book
8 " " 593 " " "

Field notes of the survey of Section No 7 Township No 137 N. Range No 32 W, Principal Meridian, as made by Harry S Todd Deputy County Surveyor of Cass County Minnesota, and examined, approved and recorded by John W. Curo, County Surveyor of Cass County Minnesota:

July 19th 1911 Harry S Todd, transitman. Ed Wilson and Ed Ellis axmen. Ole Rand and R Rasmussen chainmen. We use a Keuffel and Esser engineers' transit in perfect adjustment and a 300 foot Chicago steel tape:

At the $\frac{1}{2}$ corner between sections 17 and 18 137, 32, Gov't notes call for Black Ash 5 S 25° E, 35 lks. Tamarac 10 N 60° W, 46 links. We find both bearing trees one plainly marked and standing and the stump of the other tree, from which we set a hub for the true $\frac{1}{2}$ corner, and run North on 8°39' variation: at 2636.75 feet a stake set by J. Usher, a surveyor, sets 22.75 ft East At this corner of section 7, 8, 17 and 18 Gov't notes call for Dead Spruce 7, N 23° W, 32 lks. Dead spruce 8, S 62° W 27 lks. Dead spruce 6, S 44° E, 42 links White pine 17, N 64° E, 66 lks. All of these trees seem to be gone, but as every one here seem to think this post is correct I decide to use it for the present, but refuse to set an iron corner until I have time to investigate as to whether it is correct I set the transit over Ushers stake and run N on 8°30' variation: At 300 ft set stake at 438.25 ft set hub: at 600. enter swamp at 750 lv same: at 900, stake at 977, hub: at 1200 stake at 1500 stake. at 1621.45 hub. at 1800 stake 2100 stake at 2107.30 hub at 2400 stake Quit for night.

July 20th 1911 same crew, continuing: at 2640.50 set hub near $\frac{1}{2}$ corner between sections 7 and 8 at which point Gov't notes call for Dead Balsam 8, N 86° W. 112 lks Dead Balsam 10 N 52° E. 41 links Can find nothing and continue our line at 3900, stake 4200 stake 4955.10 hub at 5257.85 ft true corner sets East 74.50 ft at this corner of sections 5, 6, 7, 8, Gov't notes call for: Tamarac 10 S 32° E 9 Tamarac 8 N 69° E 27. Tam 9, N 10° W, 37. Tam 14 S 74° W, 45 lks. We find all the trees which check out perfect from which we set a wood stake for the true corner.

July 23rd 1911 Ellis Rasmunson Todd, pull up the wood stake at the NE corner of section 7 and set a 2 inch by 48 inch iron pipe in a bed of cement for the true corner.

Resident witnesses are Ed Ellis, R Rasmunson Ed Wilson.

Recorded July 31st 1911

County Surveyor Cass Co Minn.

17-18 1/4

7-8-17-18

7-8 1/4

5-6-7-8

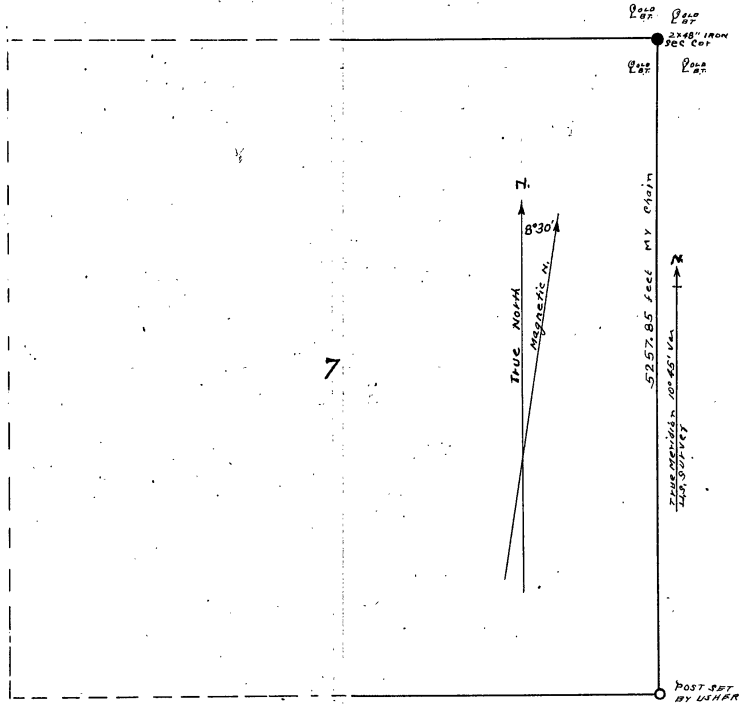
A

PLAT OF

Sec 7, T137 N R 32 W S. P.M.

Scale 6" = 1. mile

SURVEY RECORD NO 103.



Survey begun July 19 1911
 Survey completed " 23 "
 Recorded " 31 "
 John W. Ours Co Surveyors Cass Co Missouri

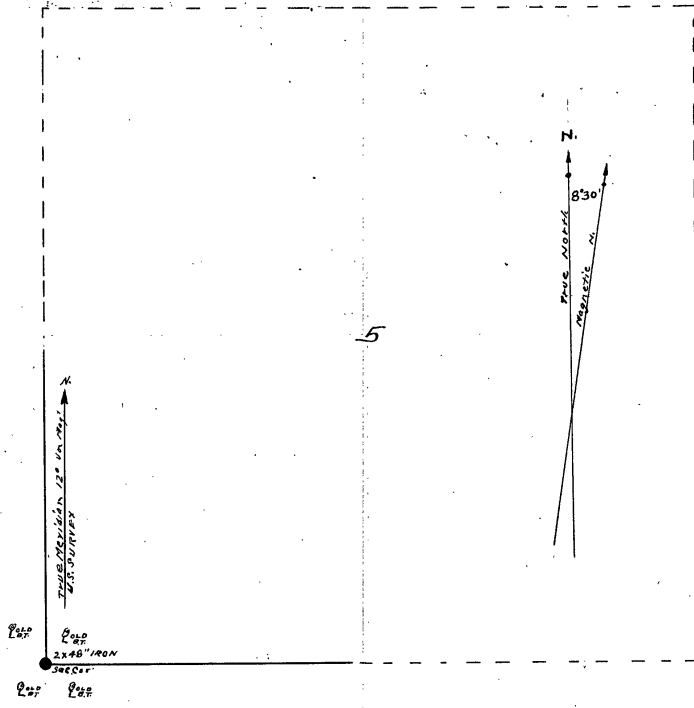
A

PLAT OF

Sec 5 T. 137 N R. 32 W 5 PM

SCALE 6" = 1 MILE

SURVEY RECORD NO 104.



Survey begun July 20th 1911
 " finished " 23rd "
 " Recorded " 31st "
John W. Curis, Co. Surveyor Cass Co. Minn.

A

Survey record No 104 Sec No 5 T. 137 N , R. No 32 W, 5th P.M.

Field notes of the survey of Section No 5 Township No 137 N Range No 32 W, 5th Principal Meridian as made by Harry S Todd, Deputy County Surveyor of Cass County Minnesota, and examined approved and recorded by John W. Cure, County Surveyor of Cass County Minnesota:

July 20th 1911 Harry S Todd transitman: Ed Wilson and Ed Ellis axmen: Ole Rand and R Rasmunson Chairmen

At the corner of sections 5, 6, 7, 8, Gov't notes call for Tamarac 10 S 32°E 9 Tamarac 8 N 69°E, 27, Tam' 9, N 10° W, 37. Tam' 14 S 74° W, 45 lks.

We find all the trees which check out perfect from which we set a wood stake for the true corner from which we run North on 8° 30' var' At 300 stake at 600 stake at 731 hub, at 900 stake at 1160 25 Hub 1200 stake, at 1500 stake at 1645.90 hub, 1800 stake at 2093.50 hub, 2100 stake 2400 stake 2640 set temporary $\frac{1}{2}$ corner between sections 5 & 6 at which point Gov't notes call for: White pine 24, N 27° W. 63 lks Black Ash 8, S 50. $\frac{1}{2}$ ° E, 150 lks can find nothing and quit for night.

July 21st 1911 same crew continue North at 2700 stake 2921.40 hub 3000 stake 3300 stake 3326.90 hub: 3600 stake 3900 stake 3919.40 hub 4200 stake 4762.45 hub 4800 stake 5100 stake 5280 temporary NW corner to section 5 at which point Gov't notes call for Aspen 14 N 56° E, 25 lks, Fir 12 N 40 W, 36 lks White Birch 10 S 35 $\frac{1}{2}$ E 18 lks. White pine 18, S 23 W. 60 lks. find nothing.

July 23rd 1911 Ellis Rasmunson Todd, pull up the wood stake at the SW corner of section 5 and set a 2 inch by 48 inch iron pipe in a bed of cement for the true corner.

Resident witnesses are Ed Ellis R Rasmunson, Ed Wilson.

Recorded July 31st 1911

John W. Cure
County Surveyor Cass Co Minn.

5-6-78

5-6 1/4

A

Survey record No 105 Sec No 6, T, No 137, N. R No 32 W, 5th P.M.

Field notes of the survey of Section No 6 Township No 137 N, Range No 32 W. 5th Principal Meridian, as made by Harry S Todd, Deputy County surveyor of Cass County Minnesota and examined approved and recorded by John W. Curo County Surveyor of Cass County Minnesota:

July 20th 1911 Harry S Todd, transitman, Ed Wilson and Ed Ellis axmen. Ole Rand and R. Rasmunson chainmen. We use a Keuffel and Esser engineers' transit in perfect adjustment and a 300 foot Chicago steel tape

At the corner of sections 5, 6, 7, 8, Gov't notes call for: Tamarac 10, S 32 E, 9 Tamarac 8, N 69° E 27. Tam' 9 N 10° W, 37. Tam' 14, S 74° W, 45 lks.

100
5-6-7-8

WE find all the trees which check out perfect from which we set a wood stake for the true corner, from which we run North on 8° 30' var' at 300, stake at 600 stake at 731 hub at 900 stake, at 1160.25 hub. 1200, stake at 1500 stake at 1645.90 hub. 1800 stake at 2093.50 hub. 2100 stake 2400 stake 2640 set temporary 1/2 cor' between sections 5 & 6 at which point Gov't notes call for: White pine 24, N 27° W, 63 links, Black Ash 8, S 50.1/2 E, 150 lks. can find nothing and quit for night:

2
5-6 1/4

July 21st 1911 same crew continued North, at 2700 stake, 2921.40 hub 3000, stake, 3300 stake 3326. 90 hub 3600 stake, 3900 stake 3919.40 hub, 4200 stake, 4762.45 hub 4800 stake 5100 stake, 5280 temp- Orary NE corner to section 6 at which point Gov't notes call for Aspen 14, N 56 E, 25 lks. Fir 12 N, 40W, 36 lks. White Birch 10 S 35 1/2° E, 18 lks. White pine 18, S 23 W, 60 lks. find nothing.

July 23rd 1911, Ellis Rasmunson, Todd pull up the wood stake at the SE corner of section 6 and set a 2 inch by 48 inch iron pipe in a bed of cement for the true corner.

5-6-7-8

Resident witnesses are: Ed Ellis R Rasmunson, Ed Wilson.

Recorded July 31st 1911

John W. Curo
County Surveyor Cass Co, Minn.

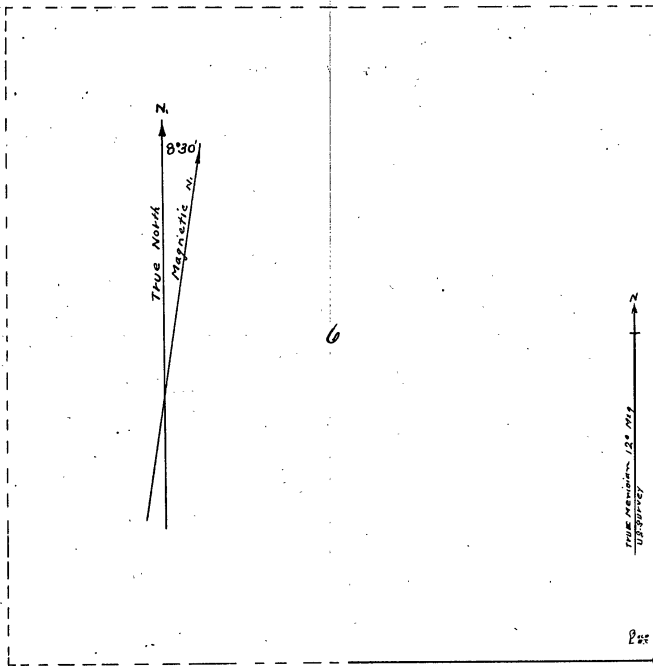
A

PLAT OF

Sec 6, T 137, R 32, S 5 P.M.

Scale 6" = 1 Mile

SURVEY RECORD No 105



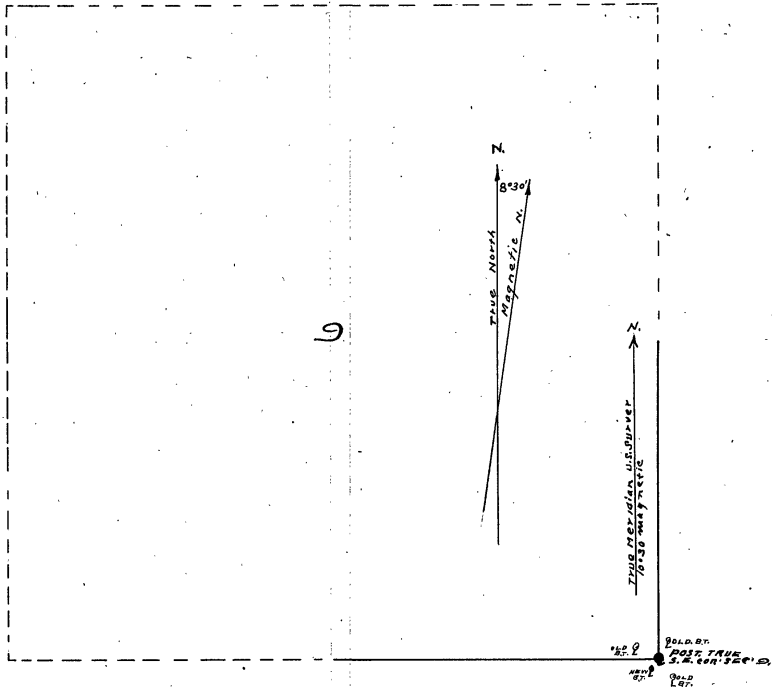
Survey commenced July 20 1911
 " " 23 " "
 " " 31 " "
John W. Carr, Co. Surveyors Carr Co. Minn.

A

PLAT OF

Sec 9 T144N R29W 5 PM SURVEY RECORD No 106

scale: 4" = 1 mile



9

Survey commenced Nov 10 1904
 " completed Dec 7 1907
 " recorded Aug 22 1911

John W. Cress, Co. Surveyor Cass Co. Minn.

A

PPP

Survey record / No 106 Sec No 9 T No. 144 N, R No 29 W, 5th P. M.

9-10-15-16

15-16-14

15-16-21-22

21-22-27-28

9-10-15-16

Field notes of the survey of section No 9 Township No 144N, Range No 29 W. 5th Principal Meridian, as made by Jehn W. Curo, County Surveyor of Cass County Minnesota.

Nov. 10th 1906 Swore in Archie McDonald and Mike Corbett as axmen and chainmen Weuse a K & E transit and a 100.ft chain: At the corner of sections 9, 10, 15, 16, T. 144 N. R. 29 W, Gov't notes call for: White pine 16, N 69° W. 75 lks. Poplar 12, S 25° W, 44 links, Poplar 6, S 65° E, 22lks. Oak 6, N 59° E, 65. lks. We find the 6. inch poplar and the 6 inch Oak which check out with the Government courses and measurements after which the Pine stands N 70° 30' W, 53.80 ft which is 4,30 ft to far away I establish the corner by proportionate measurement and set a wood post with new bearings as follows: Poplar 2, S 10° WE 31.16 ft run South on 6° variation: at 325 ft cross road: at 660.00 ft set hub: at 811.50 tack in stump: at 1320.00 hub: at 1525. ft enter swamp bears E.&W, at 1750. leave same: at 1980.00 hub: at 2640. set hub all gov't marks are gone: at 5280. All Gov't marks are gone at 7920 find no post or bearings: at 10560 can find no bearing trees: at 13200, find no Gov't marks: at 15840ft Gov't stakes or marks can be found and as it seems to be amile still further on to Leech Lake there must have been a mile mistake made in the original survey. the above line was run Nov 10th 11th 12th, 13th, and 14th 1906.

Dec 7th 1906. H. Meeker & Jake Hjerpe ax and chainmen: We set the corner of sections 10 11, 14, 15 from old Gov't bearing trees .

This survey shows that the Southeast corner of Section 9 is probably a mile further from Leech Lake than the Government records show, and that the section corner one mile East, Gov't chain is still in existance future examination and survey of section 9.

Resident witnesses at the time of this survey are A. McDonald. M. Corbett H. Meeker.

Recorded Aug 22 1911

Jahn W Curo
County Surveyor Cass Co. Minn.

A

Survey record No 107 Sec No 10 T No 144 N, R No 29 W, 5th P.M.

Field notes of the survey of section No 10 Township No 144 N, Range No29 W, 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County Minnesota.

Nov 10th 1906 Swore in Archie McDonald and Mike Corbett as axmen and chainmen We use a K & E transit and a 100 ft chain: At the corner of Sections 9, 10, 15, 16, T 144 N, R. 29 W. Gov't notes call for: White pine 16 N 69°W, 75 lks. Poplar 12, S 25°W, 44links. Poplar 6, S 65° E 22 lks. Oak 6, N 59° E. 65lks. We find the 6. inch poplar and the 6 inch Oak which check out with the Government courses and measurements after which the Pine stands N 70°30' W, 53.80 ft which is 4.30 ft too far away I establish the corner by proportionate measurement and set a wood post with new bearings as follows: poplar 2, S 10° W, 31.16 ft run South on 6° Variation: at 325 ft cross road at 660.00 ft set hub at 811.50 tack in stump: at 1320.00 hub at 1525 ft enter swamp bears E & W at 1750 leave same at 1980.00 hub at 2640. set hub all Gov't marks are gone: at 5280 all Gov't marks are gone: at 7920 find no post or bearings at 10560 can find no bearing trees: at 13200. find no Gov't marks at 15840 ft No Gov't stakes or marks can be found and as it seems to be a mile still further on to Leech Lake there must have been amile of mistake made in the original survey, the above line was run Nov 10th 11th, 12th, 13th, & 14th, 1906.

Dec 7th 1906 H. Meeker & Jake Hjerpe ax and chainmen: we set corner of sections 10, 11, 14, 15, from old Gov't bearing trees.

This survey shows that the Southwest corner of section 10 is probably a mile further from Leech Lake than Government records show.

Resident witnesses at the time of this survey are, A. McDonald, M. Corbett, H Meeker,
Recorded Aug 22 1911

John W Curo
County Surveyor Cass Co. Minn.

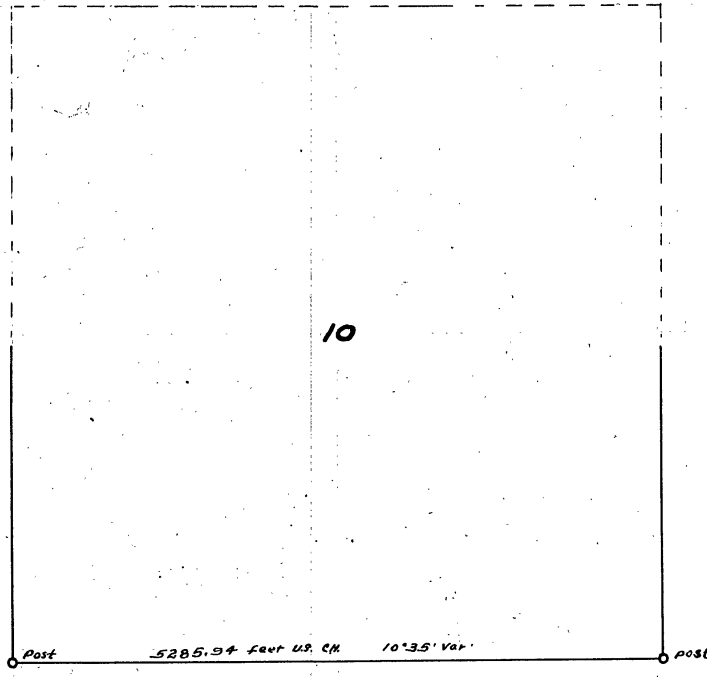
A

PLAT

Sec 10 T144N R29W 5 PM

scale 1" = one mile

SURVEY RECORD No 107



SURVEY BEGUN NOV 10 1906
 " FINISHED DEC 7 1906
 " RECORDED Aug 22 1911

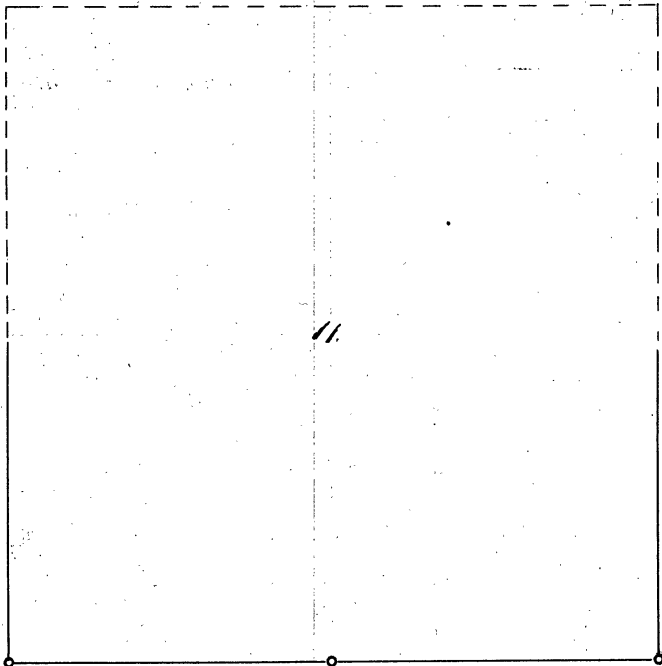
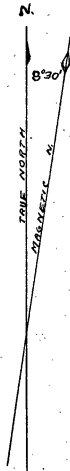
John W. Curo, C. Surveyor Cass Co. Maine

A

PLAT

Sec 11. T 144^N R 29^W 5^{MM} SURVEY RECORD N^o 108

SCALE 4 INCHES = ONE MILE



SURVEY BEGUN	DEC 7 th 1906
" FINISHED	" 8
" RECORDED	AUG 22 1911

John W. Curo. Co Surveyor Cass Co. Missouri

. Field notes of the survey of section Noll Township No 144 N Range No29 W, 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County Minnesota.

Dec 7th 1906 We use a K & E Transit and a 100 foot chain. Henry Meeker and Jake Hjerpe, axmen and chainmen: At the corner to sections 10 11, 14, 15, T 144 Rge29, Gov't notes call for: White pine 24 S 35°W, 43 links White pine 18, S 35°E, 73 links. Poplar 5, N 45°E, 32 links Birch 10 N 65° W 27 links. We find the old trees and set an oak stake for the true corner by proportionate measurements from the trees.

Run East on 12° variation at 800 enter swamp, bears North and South: at 1320. set tall stake for temporary 1/16 corner : at 2640 feet set tall stake for temporary 1/4 corner between Sections 11, and 14 T. 144, Range 29, could find no bearing trees and quit for night:

December 8th 1906. H. Meeker and Jake Hjerpe axmen and chainmen: continue our line East: Found the 1/16 post No 13 of section 11 previously set by some surveyor 1050 ft North so we quit this line and follow an old transit line Easterly to corner of sections 11 12, 13 and 14 where Gov't notes call for Jack pine 10 N 15°W, 8 links Jack pine 10 N 15° E, 35 links Jack pine 10 S 10°W, 13 links Norway pine 24 S 35°E 87 links. We find the trees from which we set a wood stake for the true section corner, and run west on 4°30' var along an old transit line between sections 11 and 14, at 1270 ft E side of old log road: at 1300. W side of road, at 1320 set tall stake for temporary 1/16 corner: at 2640. set stake for temporary 1/4 corner variation changes to 2 degrees: at 2668 ft the true 1/4 corner stands 115.70 ft south. At this point being the 1/4 corner between sections 11 and 14 Gov't notes call for Tam' 6 S 30° W. 29 links Cedar 5 N 63°W 18links we find both trees from which we set a wood stake for the true corner.

Resident witnesses are J Hjerpe, H. Meeker, August Shepske.

Recorded Aug 22 1911

John W. Curo
County Surveyor Cass Co. Minn.

Field notes of the survey of section No 12 Township No 144 N Range No 29W, 5th Principal Meridian. as made by John W. Curo County Surveyor of Cass County Minnesota.

We use a K & E Transit and a 100 foot chain.

December 5th 1906 H Meeker and Jake Hjerpe axmen and chainmen, We follow an old transit line East erly to the corner of sections 11, 12, 13, and 14, where Gov't notes call for Jack pine 10 N 15°W, 8 links. Jack pine 10 N 15°E, 35 links. Jack pine 10 S 10°W, 13 links, Norway pine 24, S 35°E, 87 links We find the trees from which we set a wood stake for the true section corner and run West on 4° 30' var along an old transit line between sections 11 and 14, At 1270 ft E, side of old log road: at 13000 W. side of road at 1320 set tall stake for temporary 1/16 corner: at 2640 set stake for temporary 1/4 corner variation changes to 2 degrees. at 2668 ft the true 1/4 corner stands 115.70 ft South At this point being the 1/4 corner between sections 11 and 14 Gov't notes call for Tam' 6 S 30° W. 29 links. Cedar 5 N 63° W, 18 links. we find both trees from which we set a wood stake for the true corner.

Dec 10th 1906. H Meeker and J Hjerpe ax and chainmen: Beginnig at the true corner to sections 11, 12, 13, 14, 144-29 we run South on old transit line 7° 40' variation at 1320 ft set stake at 2640 ft set stake.

Dec 11th 1906. continueing: at 3960 ft set stake: at 5280 ft set stake a newly established corner sets 114 ft south and 842 feet East this corner is set for the corner of sections 13, 14, 23, 24. and has new bearing trees: at this corner of Section 13, 14, 23, 24, T.1444 R 29 Government notes call for Tamarac 6, S 19°W, 20 links. Tamarac 6. S 27° E. 31 links Tamarac 5 N 13°W, 80 links Tamarac 5 N 21°E, 38 links. I can find nothing of the old tress and it seems to be a mile further south to the lake than what the Government records show.

Resident witnesses are J. Hjerpe, H. Meeker. August Shepske.

Recorded Aug 22 1911

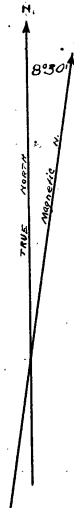
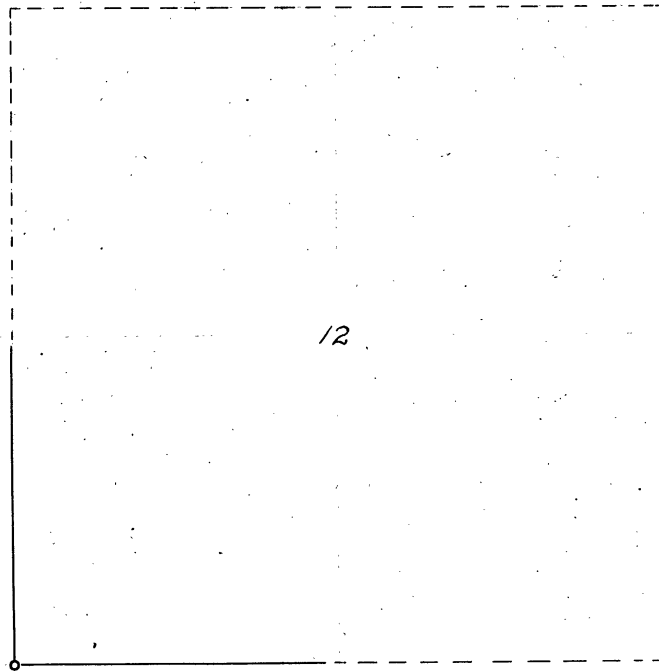
John W. Curo
County Surveyor Cass Co. Minn.

A

- PLAT -

Sec 12 T 144 N R 29 W 5 PM SURVEY RECORD No 109

Scale: 6" = 1 Mile



Surveyed December 8th 15 11th 1206
 Recorded August 22nd 1911
 John W. Carr, Co Surveyor Cass Co Missouri

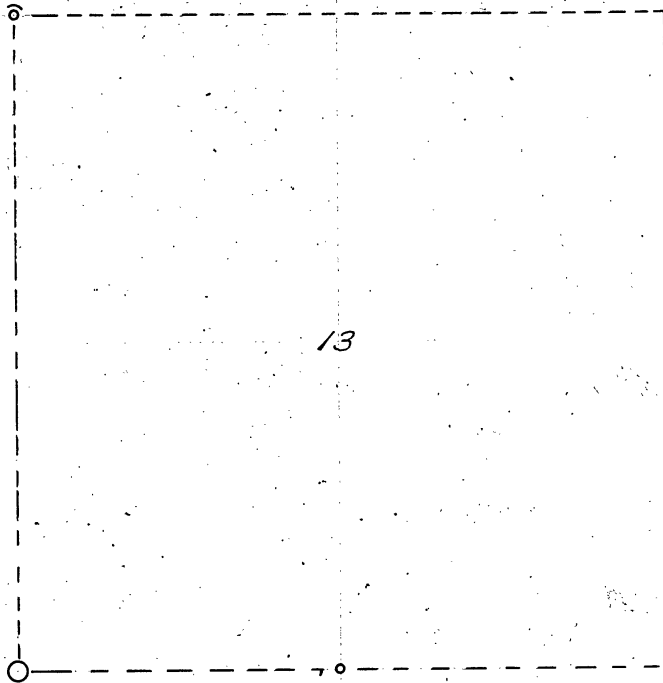
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- PLAT -

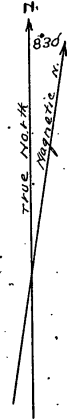
Sec 13 T 144 N R 29 W 5 PM

SURVEY RECORD NO. 110.

SCALE 6 INCHES = 1 MILE



13



Surveyed December 8th 1906 to December 11th 1906
Recorded August 22nd 1911.
John W. Curro, Co Surveyor Cass Co. Minn.

Field notes of the survey of section No 13 Township No 144, N. Range No 29 W. 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County Minnesota.

We use a K & E Transit and a 100 foot chain.

December 5th 1906. H. Meeker and Jake Hjerpe axmen and chainmen: We follow an old transit line Easterly to the corner of sections 11, 12, 13, and 14, where Gov't notes call for Jack pine 10 N, 15° W, 8 links, Jack pine 10 N 15° E, 35 links, Jack pine 10 S. 10 W. 13 links. Norway pine 24, S 35° E, 87 links. We find the trees from which we set a wood stake for the true section corner. and run West on 4° 30' var along an old transit line between sections 11 and 14, at 1270 ft E side of old log road at 1300 W side of road: at 1320 set tall stake for temporary 1/16 corner at 2640 set stake for temporary 1/4 corner variation changes to 2 degrees. at 2668 ft the true 1/4 corner stands 115.70 ft South. At this point being the 1/4 corner between sections 11 and 14, Gov't notes call for Tam' 6 S 30° W, 29 links. Cedar 5 N 63° W. 18 links we find both trees from which we set a wood stake for the true corner.

Dec 10th 1906. H. meeker and J. Hjerpe ax and chainmen: Begining at the true corner to sections 11, 12, 13, 14, 144-29 we run South on old transit line, 7° 40' variation at 1320 ft set stake: at 2640 ft set stake.

Dec 11th 1906. continuing: at 3960 ft set stake at 5280 ft set stake a newly established corner sets 114 ft south and 842. feet East this corner is set for the corner of sections 13, 14, 23, 24, a and has new bearing trees: at this corner of section 13, 14, 23, 24, T. 144. R. 29. Government notes call for Tamarac 6, S 19° W, 20 links Tamarac 6 S 27° E, 31. links. Tamarac 5, N 13° W, 80 links Tamarac 5 N 21° E, 38 links I can find nothing of the old trees and it seems to be a mile further South to the lake, than what the Government records show.

At meander post No 7 between sections 13 and 24 Government notes call for Tamarac 6 N 70° W, 81 links Poplar 4 S 77° W 76 links I find the tamarac from which I set a wood post for the meander corner. Resident witnesses are J. Hjerpe, H. Meeker, Agust Shepske.

Recorded Aug 22 1911

John W Curo
County Surveyor Cass Co. Minn.

Field notes of the survey of section No 14 Township No 144 Range No 29 W, 5th Principal Meridian, as made by John W. Curo County Surveyor of Cass County Minnesota,

Dec 7th 1906 We use a K & E transit and a 100 foot chain Henry Meeker and Jake Hjerpe axmen and chainmen. At the corner to sections 10. 11, 14, 15, T 144 Rge 29, Gov't notes call for: White pine 24, S 35° W, 43 links, White pine 18, S 35° E 73 links Poplar 5. N 45° E, 32 links Birch 10 N 65° W 27 links, We find the old trees and set an oak stake for the true corner by proportionate measurements from the trees.

Run East on 12° variation: at 800 feet enter swamp. bears North and South: at 1320 set tall stake for temporary 1/16 corner at 2640 feet set tall stake for temporary 1/4 corner between sections 11 and 14. T 144. Range 29. could find no bearing trees and quit for night:

December 8th 1906 H. Meeker and Jake Hjerpe axmen and chainmen: continue our line East: found the 1/16 post No 13 of section 11 previously set by some surveyor, 1050 ft North so we quit this line and follow an old transit line Easterly to the corner of sections 11, 12, 13, 14, where Gov't notes call for Jack pine 10 N 15° W, 8 links. Jackpine 10 N 15° E 35 links Jack pine 10, S 10° W, 13 links Norway pine 24, S 35° E 87 links. We find the trees from which we set a wood stake for the true section corner and run West on 4°30' var along an old transit line between sections 11 and 14 At 1270 ft E side of old log road at 1300 W. side of road: at 1320 set tall stake for temporary 1/16 corner: at 2640 set stake for temporary 1/4 corner variation changes to 2 degrees, at 2668 ft the true 1/4 corner stands 115.70 ft South. At this point being the 1/4 corner between sections 11, and 14, Gov't notes call for Tam: 6 S 30° W, 29 links Cedar 5, N 63° W 18 links. we find both trees from which we set a wood stake for the true corner.

Dec 10th 1906 H. meeker and J Hjerpe ax and chainmen Begining at the true Corner to sections 11, 12, 13, 14, 144- 29 we run South on old Transit line 7°40' variation at 1320 ft set stake at 2640 ft set stake.

Dec 11th 1906 continueing at 3960 ft set stake at 5280 ft set stake a newly established corner sets East 842 feet South and 842 feet East this corner is set for the corner of sections 13, 14, 23, 24, and has new bearing trees: at this corner of section 13, 14, 23, 24, T 144, R 29, Government notes call for Tamarac 6, S 19 W 20 links. Tamarac 6 S 27 E 31 links Tamarac 5 N 13 W, 80 links, Tamarac 5 N 21 E, 38 links. I can find nothing of the old trees and it seems to be a mile further South to the Lake. than what the Government records show.

Dec 14th 1906. We set the corner to sections 14, 15, 22, 23, from old Gov't bearing trees. Run South on 9°30' var 8280 ft and it seems to be a mile further south to Leech Lake. Must be a mile Mistake in original survey.

Resident witnesses are J Hjerpe H. Meeker. August Shepske,
Recorded Aug 22 1911

John W. Curo
County Surveyor Cass Co Minn.

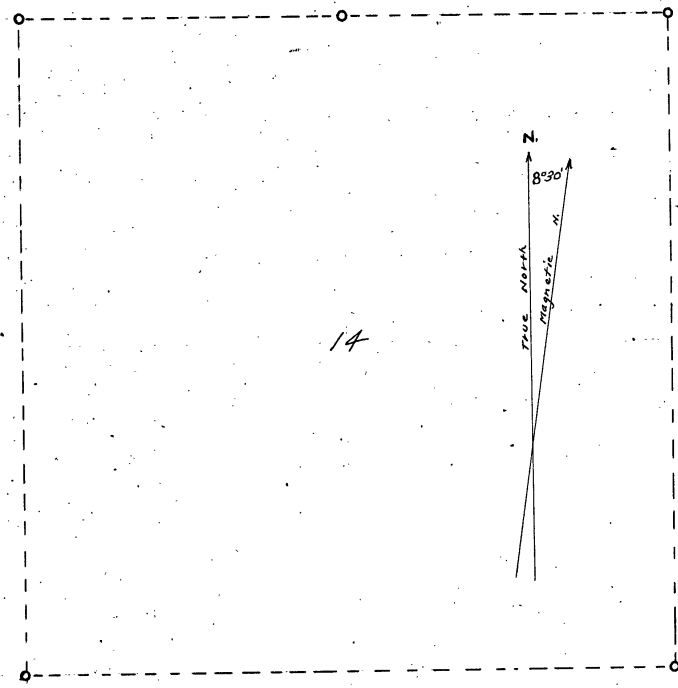
A

PLAT OF

Sec 14 T.144N R.29W 5 PM

SURVEY RECORD NO III.

SCALE 4 INCHES = 1 MILE



Surveyed Dec 7th 1906 to Dec 14th 1906
Recorded August 22nd 1911
John W. Curo & Surveyors Cass Co. Minn

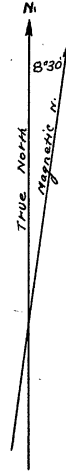
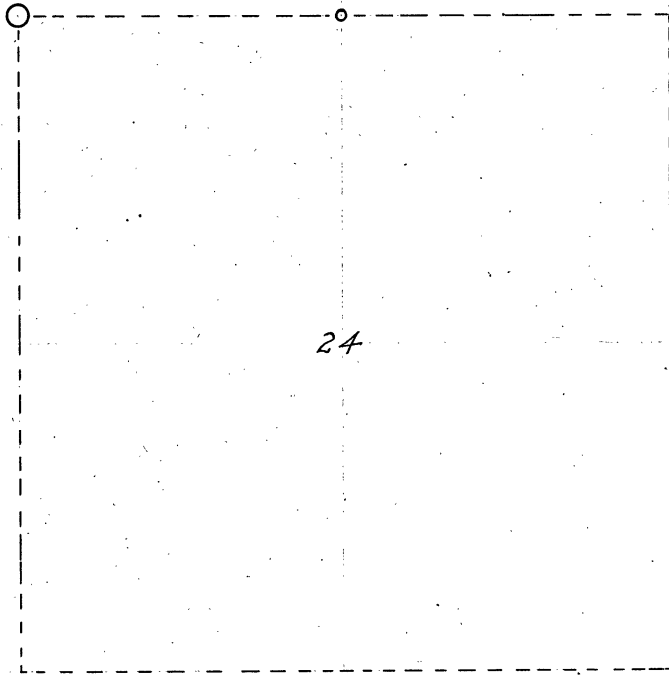
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PLAT OF

Sec 24 T 144 N R 29 W 5 PM

SURVEY RECORD No 112

SCALE 6 INCHES = 1 MILE



Surveyed December 8th to December 14th 1906
Recorded August 22nd 1911
John W. Puro, Co Surveyor Cass Co Minnesota

A

Survey record 112, Sec No 24 T No 144, N. R. No 29 W, 5th P.M.

Field notes of the survey of section No 24 Township No 144 N Range No 29 W, 5th Principal Meridian as made by John W, Cass County Surveyor of Cass County Minnesota.

We use a K & E Transit and a 100 foot chain.

December 8th, 1906 H Meeker and Jake Hjerpe axmen and chainmen: We follow an old transit line Easterly to the corner of section 11, 12, 13, and 14 where Gov't notes call for Jack pine 10 N 15° W, 8 links Jack pine 10 N 15° E 35 links Jack pine 10 S 10° W, 13 links. Norway pine 24 S 35° E 87 links We find the trees from which we set a wood stake for the true section corner.

Dec 10th, 1906. H. Meeker and J. Hjerpe ax and chainmen: Beginning at the true corner to sections 11, 12, 13 14. 144- 29 we run South on old transit line 7° 40' variation at 1320 ft set stake at 2640 ft set stake.

Dec 11th 1906 continuing at 3960 ft set stake: at 5280 ft set stake a newly established corner set 114 ft South and 842 feet East this corner is set for the corner of sections 13, 14, 23, 24, and has new bearing trees: at the corner of section 13, 14, 23, 24. T 144, R 29 Government notes call for Tamarac 6 S 19° W, 20 links Tamarac 6 S 27° E 31 links. Tamarac 5 N 13° W 80 links Tamarac 5 N 21° E 38 links I can find nothing of the old trees and as it seems to be a mile further south to the lake than what the government records show.

At meander post No 7 between sections 13 and 24 Government notes call for Tamarac 6 N 70° W 81 links. Poplar 4 S 77° W, 76 links I find the Tamarac from which I set a wood post for the meander corner

Dec 14th 1906 We set the corner to sections 14, 15 22, 23, from old Gov' bearing trees. Run South on 8° 30' var 5280 ft and it seems to be a mile still further to Leech Lake, must be a mile mistake in original survey.

Resident witnesses are J Hjerpe H. Meeker August Shepske,

Recorded Aug 22 1911

John W Cass
County Surveyor Cass Co, Minn.

Field Notes of the survey of section No 23 Township No 144 N Range No 29 W 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass County Minnesota.

We use a K & E transit and a 100 foot chain.

December 8th, 1906 H. Meeker and Jake Hjerpe axmen and chainmen We follow an old transit line Easterly to the corner of section 11, 12, 13, and 14 where Government notes call for Jack pine 10 N 15° W 8 links Jack pine 10 N 15 E 35 links Jack pine 10 S 10° W, 13 links. Norway pine 24 S 35° E 87 links We find the trees afom which we set a wood stake for the true section corner.

December 10th 1906 H Meeker and J Hjerpe ax and chainmen: Beginnig at the true corner to sections 11, 12, 13, 14, 144-29 we run South on old transit line 7°40' variation at 1320 ft set stake at 2640 ft set stake.

Dec 11th 1906 continueing at 3960 ft set stake at 5280 ft set stake a newly established corner sets 114 ft south and 842 feet East this corner is set for the corner of sections 13, 14, 23, 24. and has new bearing trees: at this corner of section 13, 14, 23, 24. T 144, R, 29 Government notes call for Tamarac 6 S 19 W 20 links Tamarac 6 S 27° E 31 links Tamarac 5 N 13° W 80 links Tamarac 5 N 21° E 38 links I can find nothing of the old trees it seems to be a mile further south of the lake than the Government records show.

At Meander post No 7 between sections 13 and 24 Government notes call for Tamarac 6, N 70° W 81 links, Poplar 4 S 77° W 76 links, I find the tamarac from which I set a wood stake for the meander corner.

December 14th 1906 We set the corner to sections 14, 15, 22, 23, from old Gov't bearing trees, Run South on 9° 30' Var 5280 ft and it seems to be a mile further south to Leech Lake Must be a mile mistake in original survey.

Resident witnesses are J Hjerpe, H Meeker, August Shepske.

Recorded Aug 22 1911

John W Curo
County Surveyor Cass Co, Minn.

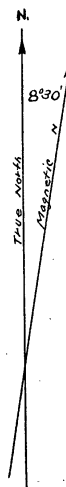
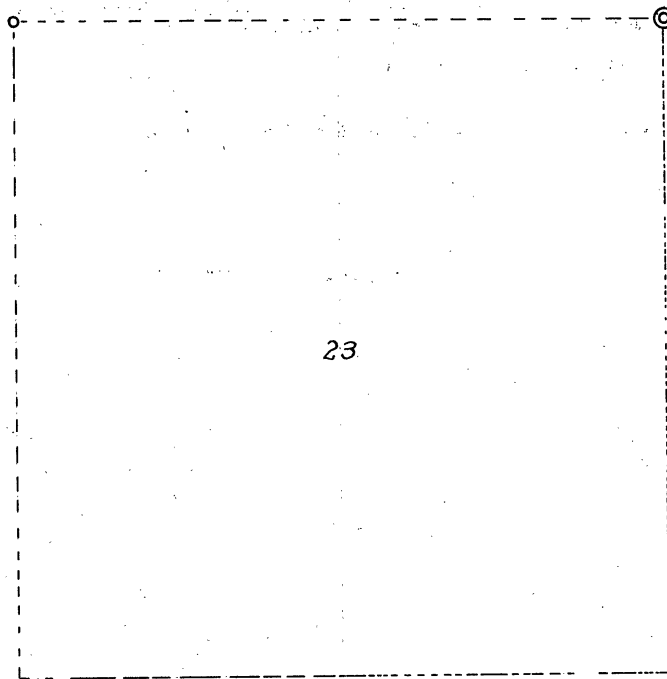
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PLAT OF

Sec 23 T144N R29W 5PM

SURVEY RECORD No. 113.

SCALE 1/4 INCHES = 1 MILE



23

Surveyed Dec 8th 15 Dec 14th 1906

Recorded August 22nd 1911

John W. Cress, Co. Surveyor Pass Co. Maine

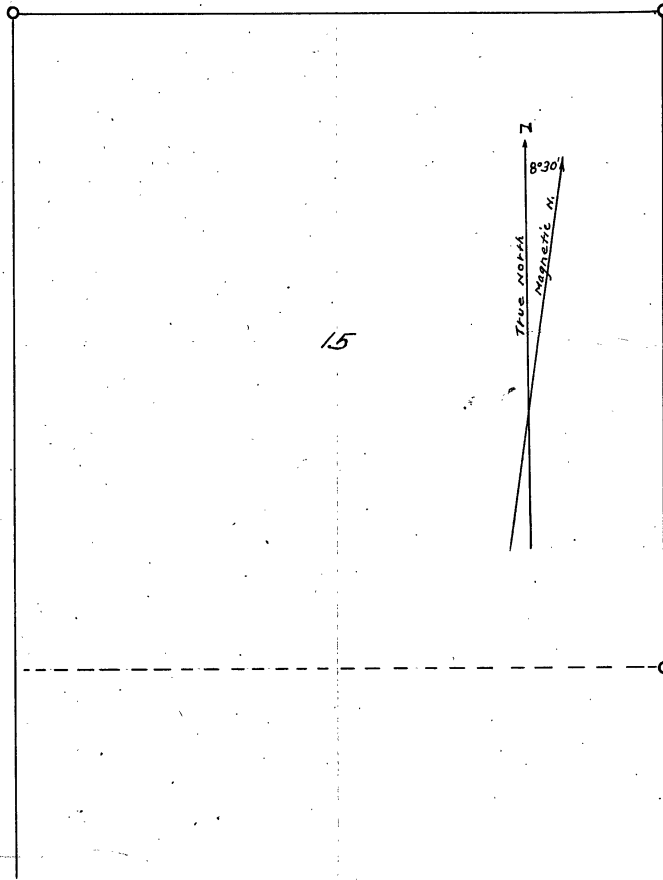
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PLAT OF

Sec 15 T 144 N R 29 W 5 PM

SURVEY RECORD N^o 114.

SCALE: 4 INCHES = 1 MILE



Surveyed Nov 10th 1906 To December 14th 1906

Recorded August 22nd 1911

John W. Cuss. & Surveyors Pass Co. Minneapolis

Field notes of the survey of section No 15 Township No 144. N, Range No 29, W. 5th Principal Meridian, as made by John W. Curo. County Surveyor of Cass County Minnesota.

Nov 10th 1906 Swore in Archie Mc Donald and Mike Corbatt axmen and chainmen.

We use a K & E transit and a 100 ft chain: At the corner of Sections 9, 10, 15, 16. T 144 N R 29 W. Gov't notes call for: White pine 16 N 69° W 75 lks. Poplar 12, S 25° W 44 links Poplar 6 S 65° E 22 links Oak 6 N 59° E 65 links We find the 6 inch poplar and the 6 inch Oak which check out with the Government courses and the measurements after which the pine stands N 70° 30' W 53.80 ft which is 4.30 ft too far away I establish the corner by proportionate measurement and set a wood post. Run South on 6° variation: at 325 ft cross road at 660.00 ft set hub: at 811.50 tack in stump at 1320.00 hub, at 1525 ft enter swamp bears E & W, at 1750 leave same: at 1980.00 hub: at 2640 set hub all Gov't marks are gone: at 5280 all Gov't marks are gone at 7920, find no post or bearing at 10560, can find no bearing trees: at 13200 find no Gov't marks at 15840 ft No Gov't stakes or marks can be found and as it seems to be a mile still further on to Leesh Lake there must have been a mile of mistake made in the original survey, the above line was run Nov 10th 11th, 12th, 13th, & 14th, 1906.

Nov 16 1906 Chas Parent and Joe Regan ax and chainmen we establish the corner to sections 16, 17, 20, 21, T 144 R 29, from old Gov't bearing trees and drive Oak stake.

Dec 7th 1906 H Meeker & Jake Hjerpe ax and Chainmen We set the corner to section 10, 11, 14 and 15 T 144 R 29 from old Gov't bearing trees and drive Oak stake.

Dec 14th 1906 Meeker & Hjerpe chainmen: at the corner to Sections 14, 15, 22, 23, T 144 R 29 Gov't notes call for Maple 7 N 55° E 11 lks Maple 6 S 56° E 17 lks Lind 13 S 21 W 18 Maple 3 N 25° W 12 links drive oak stake for true corner.

This survey shows that the Southeast corner of Section 15 is probably a mile further from Leesh Lake than the Government records show, and that the section corner one mile West, Government chain is still in existence, and can be used for future surveys and examination of section 15, T 144, Range 29.

Resident witnesses are J Hjerpe, H Meeker, Jas Regan..

Recorded Aug 22 1911

John W Curo
County Surveyor Cass Co Minn.

Field notes of the survey of section 16 Township No 144 N Range No 29 W, 5th Principal Meridian, as made by John W. Curo County Surveyor of Cass County Minnesota,

Nov 10th 1906, Swore in Archie McDonald and Mike Corbett as axmen and chainmen.

We use a K&E transit and a 100 ft chain: At the corner of sections 9, 10, 15, 16, T 144 R 29 W, Gov't notes call for: White pine 16 N 69 W 75 lks, Poplar 12, S 25 W 44links, Poplar 6, S 65 E, 22 lks Oak 6 N 59 E 65 lks. We find the 6 inch poplar and the 6 inch Oak which check out with the Government courses and measurements after which the Pine stands N 70 30' W 53.80 ft which is 4.30 ft too far away. I establish the corner by proportionate measurement and set a wood post with new bearing as follows: poplar 2 S 10 W 31.16 ft run South on 6° variation: at 325 ft cross road at 660.00 ft set hub at 811.50 tack in stump: at 1320.00 hub at 1525 enter swamp bears E & W at 1750 leave same at 1980.00 hub at 2640. set hub all gov't marks are gone: at 5280, all Gov't marks are gone: at 7920 find no post or bearings at 10560 can find no bearing trees at 13200 find no Gov't marks: at 15840 ft No Gov't stakes or marks can be found and as it seems to be a mile still further on to Leech Lake there must have been a mile of mistake made in the original survey, the above line was run Nov 10, 11, 12th, 13th, & 14th, 1906.

Nov 16th 1906 Chas Parent and Jas Regan ax and chainmen, we establish the corner to sections 16, 17, 20, 21, T 144 R 29 from old Gov't bearing trees and drive Oak stake for line corner.

Dec 14th 1906 Meeker & Hjerpe chainmen: At the corner to sections 14, 15, 22, 23, T 144, R 29 Gov't notes call for Maple 7 N 55E, 11 lks, Maple 6, S 56E, 17 lks Lind 13 S 21 W 18 Maple 3 N 23 W 12 lks. we find the trees and drive an oak stake for line corner.

March 4th 1907 August Shepske and I begin at the $\frac{1}{4}$ corner between Sections 21 and 28, where Gov't notes call for Balsam 7, S 45 E, 23 links Balsam 3 N 75 E 18 links we find both trees and set an oak stake for the true corner.

Jan 19th 1907. A Boyesen and Tom Olson axmen and chainmen: we go to the South west corner of section 7, T 144. R 29 and establish the true corner from old Government bearing trees and set an oak stake.

This survey shows that the Southeast corner of section 16, is probably a mile further from Leech Lake than the Government records show and that the section corner one mile East of the southeast corner and two miles west of the Northwest corner of section 16, are still there and can be used for future surveys in establishing other corners of section 16, T 144 Range 29.

Resident witnesses are A Shepske H, Meeker Jake Hjerpe.

Recorded Aug 22 1911

John W. Curo
County Surveyor Cass Co, Minn.

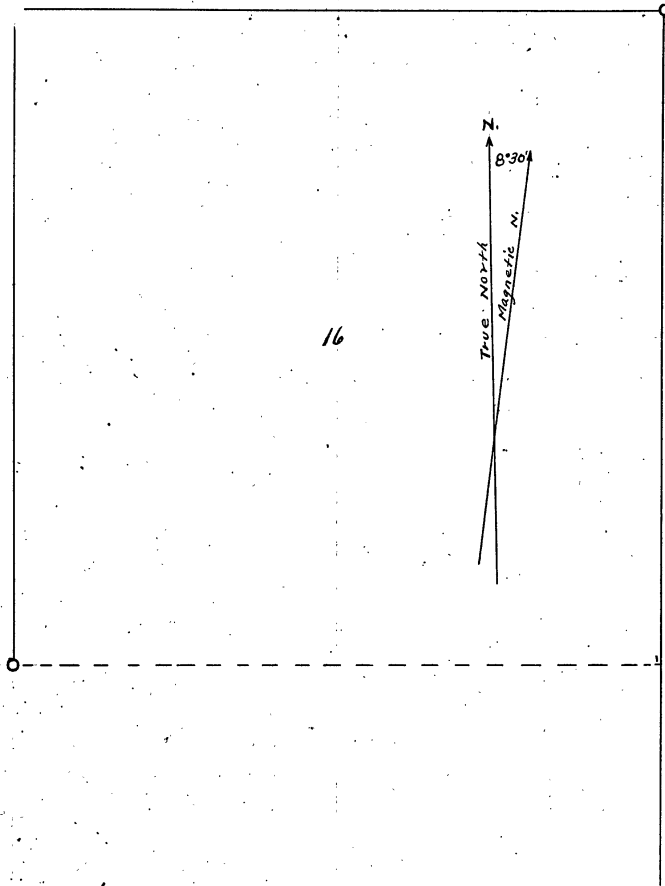
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PLAT OF

Sec 16 T144N R29W 5 PM

SURVEY RECORD No. 115.

SCALE: 6 INCHES = 1 MILE



Surveyed Nov 10th 1906 To March 4th 1907
Recorded August 22nd 1911
John W. Cuss, Co. Surveyor Cass Co. Minnesota

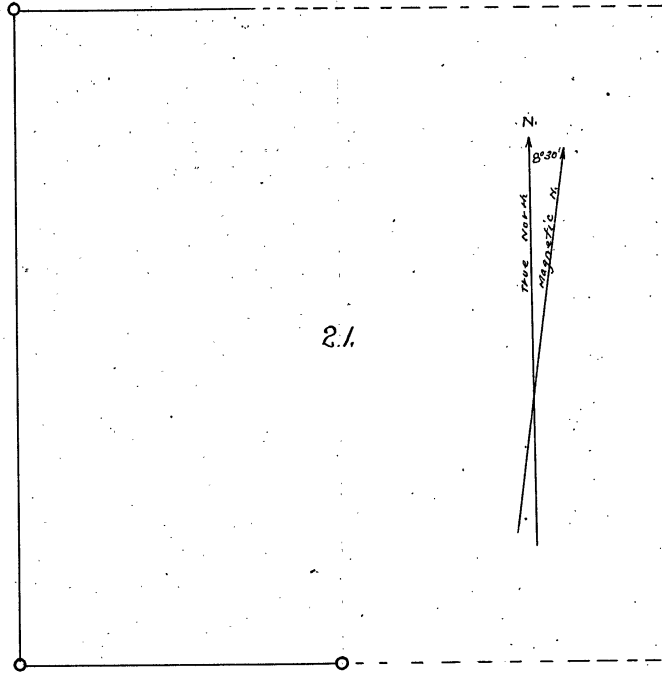
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PLAT OF

Sec 21 T144ⁿ R29^w

5^{PM}
SURVEY RECORD N^o 116.

SCALE: 6 INCHES = 1 MILE



Surveyed Nov 10th 1906 to March 4th 1907

Recorded August 22nd 1911

John W. Curo, Co Surveyor Cass Co Minnesota

Field notes of the survey of section no 21 Township No 1444 N Range No 29W 5th Principal Meridian, as made by John W Curo County Surveyor of Cass County Minnesota,

Nov 10th 1906 Swore in Archie McDonald and Mike Corbett as axmen and chainmen. We use a K & E transit and a 100 ft chain: at the corner of Sections 9, 10, 15, 16, T 144 N, R, 29W, Gov't notes call for: White pine 16 N 69W 75 lks. Poplar 12 S 25W 44 links Poplar 6 S 65 E 22lks. Oak 6 N 59 E 65 lks. We find the 6 inch poplar and the 6 inch Oak which check out with the Government courses and measurements after which the pine stands N 70°30' W, 53.80 ft which is 4.30 ft too far away I establish the corner by proportionate measurement and set a wood post with new bearings as follows: poplar 2, S 10 W 31.16 ft run south on 6° variation: at 325 ft cross road at 660,00 ft set hub: at \$11.50 tack in stump: at 1320.00 hub at 1525. ft enter swamp bears E & W, at 1750 leave same: at 1980,00 hub: at 2640 set hub all Gov't marks are gone: at 5280. all Gov't marks are gone at 7920. find no post or bearings at 10560 can find no bearing trees: at 13200 find no Gov't marks at 15840. ft No Gov't stakes or marks can be found and as it seems to be a mile still further on to Leech Lake there must have been a mile of mistake made in the original survey, the above line was run Nov. 10th, 11th, 12th, 13th, & 14th, 1906.

Nov 16th 1906 Chas Parent, and Jas Regan ax and chainmen. We establish the corner to sections 16 17, 20, 21, T 144, R. 29, from old Gov't bearing trees and set oak stake fore line corner.

Dec 14th 1906. H Meeker & J Hjerpe chainmen At the corner to sections 14, 15, 22, 23, T 144, R 29, Gov't notes call for: Maple 7 N 55E 11lks Maple 6 S 56 E 17 lks Lind 13 S 21 W 18 lks Maple 3 N 23 W 12 lks. we find the trees and set the true corner by driving an oak stake.

Dec 31st 1906 T Sien & I set the corner to sections 20, 21, 28, 29, from old Gov't bearing trees and drove Oak stake, At this point the Gov't notes call for Fir 16, S 15 W 34 links Elm 12 S 23 E 58 lks. Maple 6 N 26 W, 17 links. Basswood 6 N 10 W, 37 links, we find all of the trees and set an oak stake for the line corner,

March 4th 1907, August Shepske and I begin at corner of sections 20, 21, 28, 29 and run 2640, ft East to the $\frac{1}{2}$ corner between sections 21 and 28, where Gov't notes call for Balsam 7 S 45 E 23 links Balsam 3 N 75 E 18 links, we find both trees and set an oak stake for the true corner.

This survey shows that Section 21, may be a mile further from Leech Lake than the Government survey records show, and that the section corners a mile East and a mile North (Government chain) from the Northeast corner of sec 21, are still in existence and may be used in establishing the SE and NE corners of section 21, T 144, Range 29.

Resident witnesses are A Shepske, H, Meeker Jake Hjerpe.

Recorded Aug 22 1911

John W Curo
County Surveyor Cass Co Minn.

Field notes of the survey of Section No 22 Township No 144 N, Range No 29 W, 5th principal Meridian as made by John W. Curo, County Surveyor of Cass County Minnesota, November 10th 1906, Swore in Archie Mc Donald and Mike Corbett as axman and chainmen: We use A K & E transit and a 100 ft chain.

At the corner of sections 9, 10, 15, 16, T 144N, R, 29 W, Gov't notes call for White pine 16, N 69° W 75 links Poplar 12 S 25° W 44 links Poplar 6 S 69° E 22 links: Oak 6 N 59° E, 65 links.

We find the 6 inch poplar and the 6 inch Oak which check out with the Government courses and distances, after which the pine stands N 70° 30' W. 53.80 feet which is 4.30 feet too far away. I establish the corner by proportionate measurement and set a wood post with new bearings as follows Poplar 2. S 10° W, 31.16 feet.

Run South on 6° variation: At 325 ft cross road at 660 ft set hub at 611.50 tack in stump- at 1320 hub at 1525 ft enter swamp bears E & W at 1750 lv. same at 1980.00 set hub at 2640 ft set hub, all Gov't marks are gone at 5280 hub, all Gov't marks are gone at 7920 feet find no post or bearings: at 10560 and at 13200 ft find no bearing trees: at 15840. no Government stake or bearing trees can be found, and as it seems to be a mile still further to Leech Lake there must have been a mile of mistake made in the original Government survey.

The above line was run Nov, 10th, 11th, 12th, 13th, and 14th, 1906
Nov 16th 1906, Chas Parent and Jas Regan ax and chain men We establish the corner to sections 16, 17, 20, 21 T 144 R 29 from old Gov't bearing trees, and set an oak stake for the true corner.

Dec 14th 1906. H Meeker and T Hjerpe chainmen: at the corner to sections 14, 15, 22, 23, T 144, R 29, Gov't notes call for Maple 7, N 55° W 11 links, Maple 6, S 56° E 17 links, Lind 13 S 21° W 18 links Maple 3 N 23° W 12. links. We find all of the trees and set the true corner by driving an oak stake: Run south 5280 feet and Leech Lake seems to be a mile still further South.

Dec 31 T. Sien and I set the corner to sections 20, 21, 28, 29, from old bearing trees and drive an oak stake for the true corner.

March 4th 1907 August Shepske and I begin at the corner of sections 20, 21, 28, 29, T 144, R 29. and run East: 2640 feet and at the $\frac{1}{4}$ corner between Sections 21. and 25, which we set from old Gov't bearing trees and drive an oak stake.

This survey shows that Section 22 may be a mile further from Leech Lake than Gov't records show or it may be 2 miles along the West side: It also shows the section corners now in existence which can be used in establishing the points not yet established.

Resident witnesses are A Mc Donald, M Corbett, H. Meeker.

Recorded Aug 22 1911

John W Curo
County Surveyor Cass Co, Minn.

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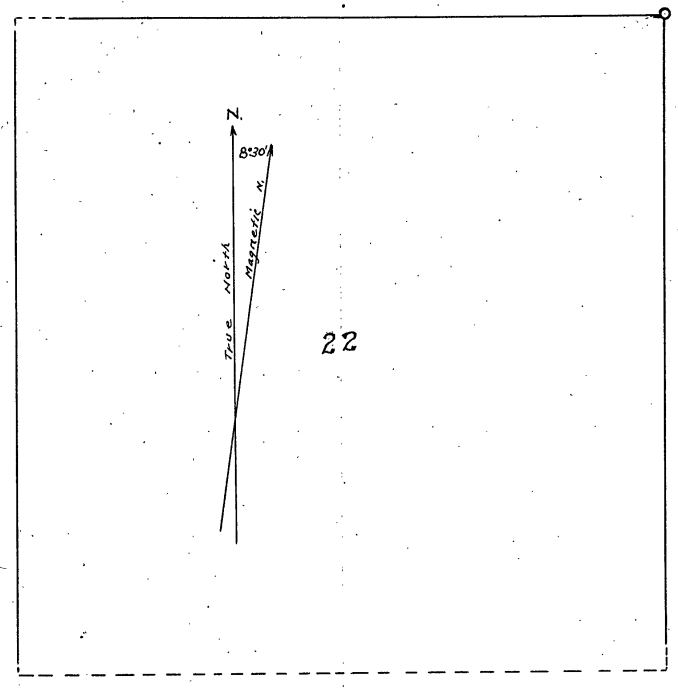
PLAT OF

Sec 22 T144^N R29^W

5^{PM}

SURVEY RECORD No 117

SCALE - 4 INCHES = 1 MILE



22

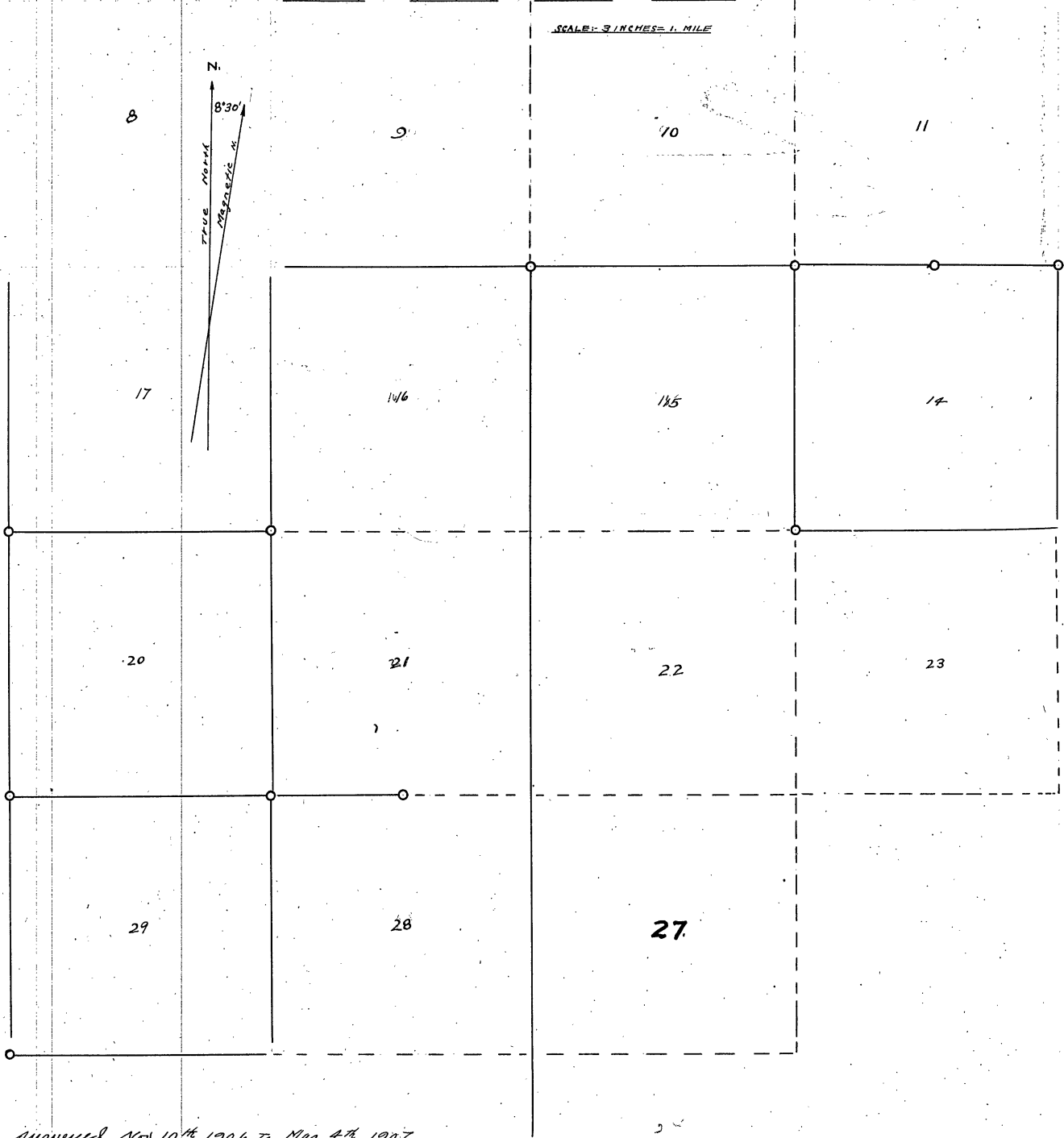
Survey made Nov 10th 1906 to March 4th 1907
 Recorded August 22nd 1911
 John W. Curo, Co. Surveyor Cass Co. Missouri

SURVEY RECORD No 118

PLAT OF

Sec 27 T144N R29N 5 PM

SCALE: 3 INCHES = 1 MILE



Surveyed Nov 10th 1906 to Mar 4th 1907

Recorded August 22nd 1911

John W. Cass, Co Surveyor Cass Co Minn

Field notes of the survey of Section No 27 Township No 144 N. Range No 29 W, 5th principal Meridian as made by John W. Curo County Surveyor of Cass County Minnesota.

November 10th 1906 Swore in Archie McDonald and Mike Corbett as axmen and chainmen: We use a K & E transit and a 100 foot chain.

At the corner of Sections 9, 10, 15, 16, T 144 N R 29 W, Gov't notes call for White pine 16, N 69° 07' W 75 links Poplar 12 S 25° W, 44 links Poplar 6 S 65° E 22 links: Oak 6 N 59° E 65 links.

We find the 6 inch poplar and the 6 inch oak which check out with the Government courses and distances after which the pine stands N 70° 30' W 53.80 feet which is 4.30 feet too far away. I establish the corner by proportionate measurement and set a wood post with bearing as follows: Poplar 2 S 10° W 31.16 feet.

Run South on 6° variation: At 325 ft cross road: at 660 ft set hub: at 611.50 tack in stump: at 1320.00 hub at 1525 ft enter swamp bear E & W. : at 1750 lv same: at 1980.00 set hub at 2640. ft set hub all Gov't marks are gone at 5280 hub, all Gov't marks are gone at 7920. feet find no post or bearings: at 10560. and at 13200. ft find no bearing trees: at 15840. no Government stake or bearing trees can be found, and as it seems to be a mile still further to Leech Lake. there must have been a mile of mistake made in the original Government survey.

The above line was run Nov. 10th, 11th, 12th, 13th, and 14th, 1906. November 16th 1906, Chas Parent and Jas Regan ax and chainmen: We establish the corner to sections 16, 17, 20, 21 T. 144 R 29 from old Gov't bearing trees, and set an oak stake for the true corner.

Dec 14th 1906 H. Meeker and J Hjerpe chainmen at the corner to sections 14, 15, 22, 23, T 144 R 29 Gov't notes call for Maple 7 N 55° E. 11 links Maple 6 S 56° E 17 links Lind 13 S 21° W, 18 links maple 3, N 23° W, 12 links, We find all of the trees and set the true corner by driving an oak stake: Run south 5280 feet and it seems to a mile still still further South to Leech Lake

Dec 31st 1906 T Sien and I set the corner to sections 20, 21, 28, 29, from old bearing trees and drive an oak stake for the true corner.

March 4th 1907 August Shepske and I begin at the corner of sections 20, 21, 28, 29, T 144 R 29 and run East 2640 feet to the 1/4 corner between Sections 21, and 28, which we set from old Gov't bearing trees and drive an oak stake.

This survey shows that Section 27 may be a mile further from Leech lake than Gov't records show it may be 2 miles long on the West side: It also shows the section corners now in existence which can be used in establishing the points not yet established.

Resident witnesses are: A. McDonald, M. Corbett, H Meeker.

Recorded Aug 22 1911

John W. Curo
County Surveyor Cass Co Minn.

Field Notes of the survey of Section No 28 Township No 144 N Range No 29 W 5th Principal Meridian, as made by John W. Curo County Surveyor of Cass County Minnesota,

November 10th 1906 Swore in Archie McDonald and Mike Corbett as axmen and Chainmen: We use a K & E transit and a 100 foot chain:

At the corner of Sections 9, 10, 15, T 144 N R 29 W. Gov't notes call for White Pine 16, N 69° W 75 links Poplar 12 S 25° W 44 links Poplar 6 S 65° E 22 links Oak 6 N 59° E 65 links

We find the 6 inch poplar and the 6 inch oak which check out with the Government courses and distances after which pine stands N 70° 30' W 53.80 feet which is 4.30 feet too far away. I establish the corner by proportionate measurement and set a wood post with new bearings, as follows: Poplar 2 S 10° W. 31. 16 feet.

Run South on 6" variation at 325 ft cross road: at 660 ft set hub at 611.50 tack in stump: at 1320.00 hub at 1525 ft enter swamp. bears: E. & W at 1750 lv, same at 1980.00 set hub at 2640 ft set hub. all Gov't marks are gone at 5280 hub: all Gov't marks are gone: at 7920 feet find no post or bearings: at 10560 and at 13200 no bearing trees at 15840 no Government stake of bearing trees can be found and as it seems to be a mile still further to Leech Lake there must have been a mile of mistake made in the original Government survey.

The above line was run Nov 10, 11th, 12th, 13th, and 14th, 1906.

November 16th 1906 Chas Parent and Jas Regan ax and chainmen: We establish the corner to sections 16, 17, 20, 21, T 144 R 29 from old Gov't bearing trees and set an oak stake for the true corner.

Dec 14th 1906 H. Meeker and J Hjerpe chainmen. At the corner to sections 14, 15, 22, 23, T 144 R 29 Gov't notes call for: Maple 7 N 55° E 11 links Maple 6 S 56° E 17 links Lind 13 S 21° W 18 links Maple 3 N 23° W 12 links We find all of the trees and set the true corner by driving an oak stake Run South 5280 ft and Leech Lake seems to be a mile still further South, We find no bearing trees At the ¼ corner between sections 22 and 27 we can find no bearing trees.

Dec 31st 1906. T Seim and I set the corner to sections 20, 21, 28, 29, from old bearing trees and drive an oak stake for the true corner.

March 4th 1907 August Shepske and I begin at the corner of sections 20, 21 28, 29, T 144 R 29 and run East 2640 feet to the ¼ corner between sections 21. and 28, which we set from old Gov't bearing trees and drive an oak stake.

This survey shows that Section 28 may be a mile further from Leech Lake than the Gov't records show or it may be 2 miles long on the East side: It also shows the section corner now in existence which can be used in establishing the points not yet established.

Resident witnesses are: A. McDonald M Corbett H Meeker.

Recorded Aug 22 1911

John W Curo
County Surveyor Cass Co. Minn.

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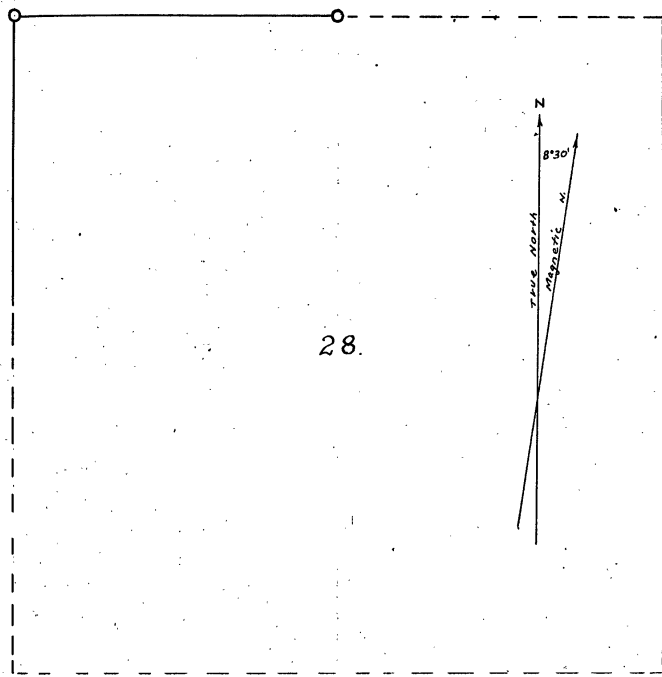
-PLAT-

Sec 28 T144^N R29^W

5 P.M.

SURVEY RECORD No 119.

SCALE - 6 INCHES = 1 MILE



Surveyed Nov 10th 1906 to March 4th 1907

Recorded August 22nd 1911

John W. Curo. Co. Surveyors Cass Co. Minn.

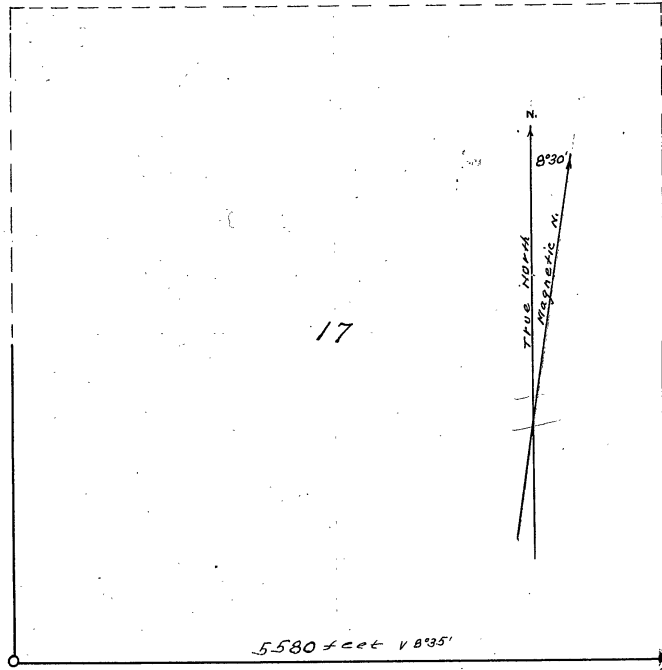
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-PLAT-

Sec 17 T144 R29 5 PM

SURVEY RECORD No 120.

SCALE: 6 INCHES = 1 MILE



Surveyed Nov 10th 1906 to Jan 19th 1907

Recorded August 22nd 1911

John W. Cuss. Co Surveyor Cass Co Minn

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Survey record No 120 Sec No 17 T No 144 N, Range No 29 W, 5th P. M.

Field notes of the survey of Section No 17 Township No 144 N, Range No 29 W, 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County Minnesota.

Nov 10th 1906. Swore in Archie McDonald and Mike Corbett as axmen and chainmen. We use a K & E transit and a 100 foot chain.

At the corner of sections 9, 10, 15, 16, T. 144, Range 29 W. Government notes call for White pine 16, N. 69° W, 75 links Poplar 12, S 25° W, 44 links Poplar 6 S 65° E, 22 links, Oak 6, N 59° W 65 links. We find the 6 inch poplar and the 5 inch oak which check out with Government courses and measurements after which the pine stands N 70° 30' W, 53.80 feet, which is 4.30 feet too far away. I establish the corner by proportionate measurement and set a wood post with new bearing as follows: Poplar 2, S 10° W, 31.16 feet.

Nov 11th, 12th, 13th 14th. 1906 we run 3 miles South and found no stakes or bearing trees on the whole run, and as Leech Lake seems to be a mile South from the end of our survey there must have been a mile of mistake made in the record of the original Government survey.

Nov 15th 1906, C Parent and Jas Regan axmen and chainmen: At the corner to Sections 17, 18, 19, 20, T 144, R 29 Gov't notes call for Poplar 12, N 45° W, 31 links: Poplar 7 S 19° W 39 links Maple 6 N 69° E 26 links, Birch 6 S 44° E 17 links We find all of the trees except the Maple and set a post for the true corner with new bearings as follows Birch 2 N 21° E 14.55 feet Run East on line of old spots 2640 feet and set a post for temporary $\frac{1}{4}$ corner between Sections 17 and 20 Where Government notes call for Elm 4 S 3° W 4 links, Balsam 4 N 63° E 12 links we find nothing and quit for night.

Nov 16th 1906 same crew, continue East at 5280 feet the corner to sections 16, 17, 20, 21, is 300 feet East, at which point the field notes call for Oak 7 S 53° E 28 links Poplar 10 N 67° E 21 links. Poplar 9, N 33° W, 34 links Maple 6 S 52° W 31 links. we find the old bearing trees and set an oak stake for the true corner.

Jan 19th, 1907 A Boyenson and Tom Olson set the Northwest corner of Section 18, from old Government bearing trees and set wood stake.

This survey shows section corners now in existence which can be used to establish corners not yet established.

Resident witnesses are C Parent, J. Regan, T. Siem.

Recorded Aug 22 1911

John W. Curo
County Surveyor Cass Co, Minn.

Field Notes of the survey of section No 20 Township No 144 N, Range No 29 W, 5th Principal Meridian, as made by John W. Curo, County Surveyor Cass County Minnesota.

Nov 15th 1906, C Parent and Jas Regan axmen and chainmen: At the corner of Section 17, 18, 19, 20, T 144, R 29, Gov't notes call for: Poplar 12, N 45° W 31 links: Poplar 7, S 19° W 39 links. Maple 6, N 69° E 26 links Birch 6 S 44° E 17 links, We find all of the trees except the maple and set a post for the true corner with new bearings as follows Birch 2, N 21° E 14.55 feet: Run East on line of old spots, 2640 feet and set a post for temporary $\frac{1}{4}$ corner between Sections 17, 18 and 20 where Government notes call for Elm 4 S 3° W 4 links Balsam 4 N 63° E 12 links we find nothing and quit for night.

Nov 16th 1906 same crew, continue East a t 5280 feet the corner to sections 16, 17, 20, 21, is 300 feet east at which point the field notes call for Oak: 7 S 53° E 28 links Poplar 10 N 67° E 21 links, Poplar 9 N 33° W 34 links maple 6 S 52° W 31 links We find the old bearing trees and set an oak stake for the true corner.

Nov 17th 1906, Beginning at the corner to sections 17, 18, 19, 20, T 144 R, 29, run South following old spots at 1320 feet set tall stake for temporary $\frac{1}{16}$ corner at 2640 feet set tall stake for temporary $\frac{1}{4}$ corner where Gov't notes call for Birch 6 S 86° W 31 links: Birch 6 N 34° E 36 links. we find nothing and continue South at 3960 feet set tall stake for temporary $\frac{1}{16}$ corner and continue South at 5280 ft set stake the corner to sections 19, 20, 29, 30, set South 120 feet at this point the notes call for Tamarac 6 S 47° E 24 links, Ash 5 N 44° W 105 links Tamarac 12, N 50° W, 39 links Tamarac 4 N 17° E 21 links we find the trees and set a wood stake for the true corner and run East at 1320 ft set stake at 2640 feet set stake and look for the $\frac{1}{4}$ corner between sections 20 and 29 where Government notes call for Balsam 4, S 73° E, 35 links Balsam 6 N 70° W 28 links, We find nothing.

Dec 31 st 1906, T siem and I go to the corner of section 20, 21, 28, 29, T 144 R 29, Where the notes call for : Birch 16 S 15° W, 54 links, Elm 12, S 23° E 58 links Maple 6 N 26° W, 17 links, Basswood 6 N 10° W 37 links we find the trees and set a wood stake for true corner.

This survey shows section corners now in existence which can be used to establish corners not yet established.

Resident witnesses are C Parent, J. Regan, T Siem.

Recorded

Aug 22 1911

John W Curo
County Surveyor Cass Co, Minn.

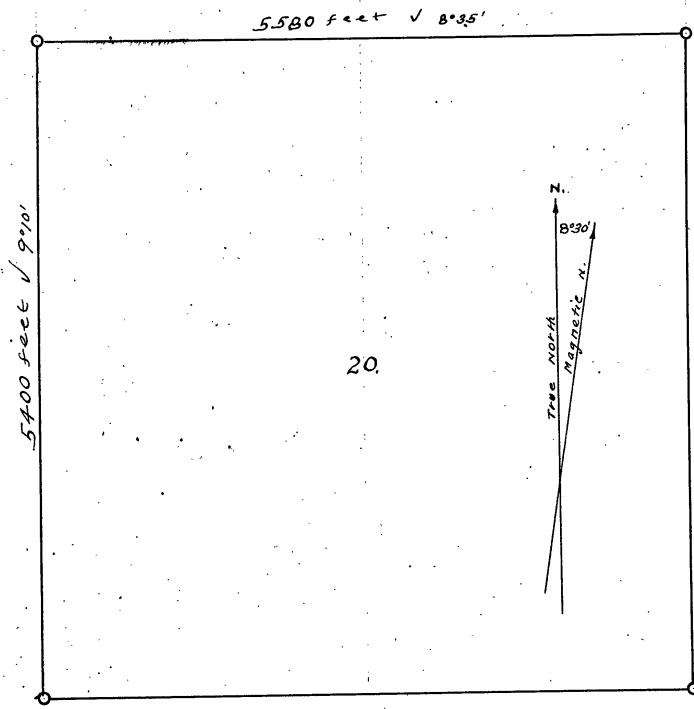
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- PLAT -

Sec 20 T144N R29W 5th PM

SURVEY RECORD No 121.

SCALE: 4" = ONE MILE



Surveyed Nov 15th 1906 to Dec 31st 1906
Recorded August 22nd 1911
John W. Curo. Co Surveyors Cass Co. Miss.

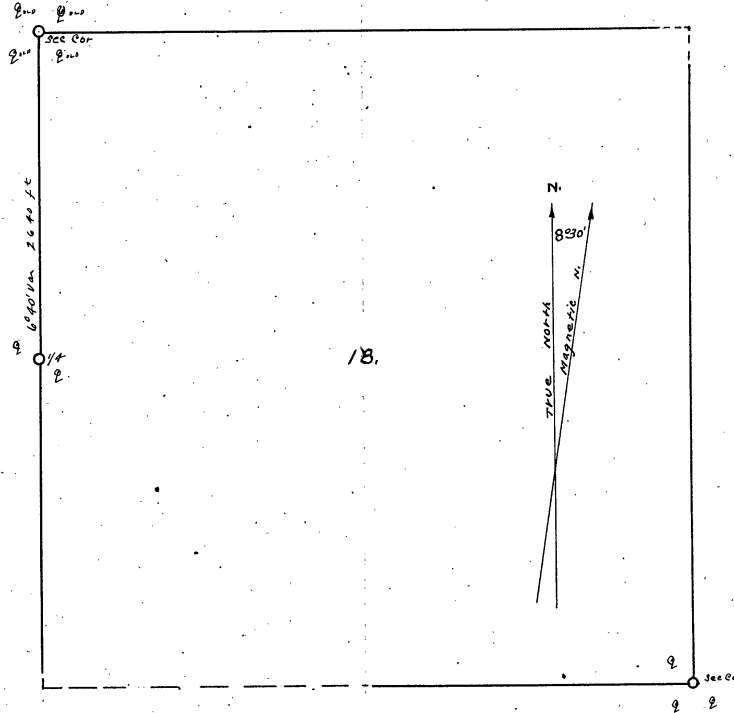
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-PLAT-

Sec 18 T144N R29W 5th

SURVEY RECORD NO 122.

SCALE: 4" = 1 MILE



Surveyed Nov 15th 1906 to Jan 20th 1907
 Recorded August 22nd 1911
 John W. Curran, Co Surveyor Cass Co Minn

Field notes of the survey of section No 18 Township No 144 N, Range No 29 W. 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County Minnesota.

Nov 15th, 1906 Charles Parent and James Regan axmen and chainmen I use a Keuffel and Esser transit and a 100 foot chain,

At the corner of sections 17, 18, 19, 20, T. 144N, R 29 W. Government notes call for a post and the following bearing trees Poplar 12, N 45° W 31 links Poplar 7 S 19° W 39 links Maple 6 N 69° E 26 links. Birch 6 S 44° E 17 links, We find all of the bearing trees except the maple. and set an oak post for the true corner and mark new bearing trees as follows: Birch 2 N 21° E 14.55 feet.

Jan 19th, 1907 A Boyeson and T. Olson axmen and chainmen Going to the Northwest corner of Section 18 and Southwest corner of sec 7 T 144 N Rge 29 W the notes call for a post and the following bearing trees Black Ash 12, N 61° E 12 links, Cedar 4, N 3° 11 links. B ash 13 S 55° W 6 links Cedar 5 S 45° E 20 links, We find all of the trees from which we set a wood stake for the true corner and run South on 8° 45' variation: at 1320 ft set tall stake at 2640 ft set tall stake at this point being the $\frac{1}{4}$ corner of the West side of section 18 the notes call for a post and the following trees: Maple 4 S 47° E 24 links Ironwood 4 N 38° W 3 links We find no trees and quit for night.

Jan 20th 1907. I find the bearing trees to the $\frac{1}{4}$ corner on the West side of section 18 T. 144 N. Rge 29 W. and set a wood stake for the true $\frac{1}{4}$ corner Stake No 2640 on the line we run yesterday sets 155 feet east.

Begining at the $\frac{1}{4}$ post just set on the West side of section 18 I run South on 8° 45' variation at 1320 ft set tall stake at 2640 ft. set tall stake near the Southwest corner of section 18 at which point the notes call for a post and the following bearing trees: Fir 5, N 56° E 10 links Lind 4 N 13° W 20 links Maple 4 S 75° W 12 links All appear to be gone.

Recorded Aug 22 1911

John W Curo
County Surveyor Cass Co Minn.

Field notes of the survey of Section No 29 Township No 144 N Range No 29 W 5th Principal Meridian, as made by Cass County Minnesota.

Nov 16 th 1906 Charles Parent and James Regan axmen and chainmen I use a Keuffel and Esser transit and a 100 foot chain.

At the corner to sections 19, 20 29, 30 T 144 N R 29 W, the notes of the original Government survey call for a post and the following bearing trees. Tam 6 S 47° E 24 links, Ash 5 S 44° W 105 links Tamarac 12, N 50° W 39 links Tamarac 4 N 17° E 21 links We find all of the old bearing trees from which we set an oak post for the true corner.

Nov 17th 1906 C Parent and J Regan axmen and chainmen: Begining at the corner to sections 19, 20, 29, 30. we run East on 8° 35' variation at 1320 ft set tall stake for 1/16 corner at 2640 ft set tall stake for 1/4 corner between Sections 20, and 29, at which point the notes call for a post and the following bearing trees Balsam 4 S 73° E 35 links Balsam 6 N 70° W 28 links all appear to be gone.

Dec 30th 1906 T Siem and I chaining and cutting brush: At the corner to sections 20, 21, 28, 29, Government notes call for a post and the following bearing trees Birch 16 S 15° W 54 links Elm 12, S 23° E 58 links. Maple 6 N 26° W, 17 links. Basswood 6 N 10° W 37 links We find all the old bearing trees and set an oak post for the true corner.

Dec 31st 1906 T Siem and I run the line between sections 29, and 30, Begining at the corner to sections 19, 20, 29, 30, T 144 N R 29 W we run South on 7° variation. At 1320 ft set tall stake At 2640 feet set tall stake near 1/4 corner between sections 29 and 30 at which point the notes call for a post and the following bearing trees. Balsam 6 S 39° E links Balsam 4 10° W, 9 links All seem to be gone continue South at 3960 feet set tall stake, at 5280 ft set tall stake Variation changes to 3° 30' Taking our line as a meridian the true corner to sections 29, 30, 31, 32, bears S 86° 30' E 197 feet.

At this point the notes call for a post and the following trees Basswood 16 N 23° W 38 links, Ironwood 4 N 69° E 22 links Ironwood 6 S 11° E 28 links Balsam 5 S 47° W 16 links We find all the trees from which we set a wood stake for the true corner,

Recorded Aug 22, 1911

John W. Cuno
County Surveyor Cass Co Minn.

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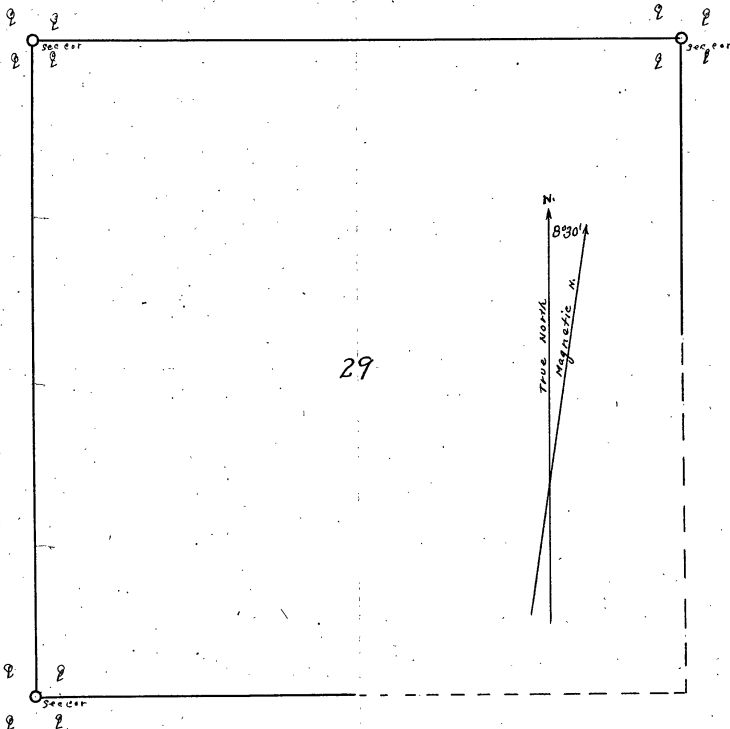
-PLAT-

Sec. 29 T144N R29W

5 P.M.

SCALE: 6" = 1 MILE

SURVEY RECORD NO 123.



Surveyed Nov 16th 1906 to Dec 31st 1906

Recorded August 22nd 1911

John W. Case, Co Surveyor, Cass Co. Missouri

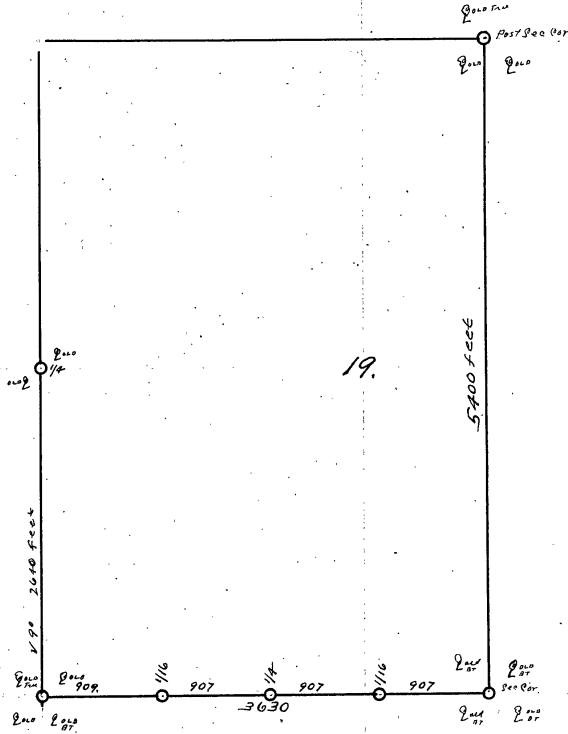
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- PLAT -

Sec 19 T144N R29W 5 PM

SCALE: 6" = 1 MILE

SURVEY RECORD No 124



Surveyed Nov 15th 1906 to Jan 25th 1907
 Recorded August 22nd 1911
 John W. Curro, Co. Surveyor, Cass Co. Minnesota

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Survey record No 124 Sec No 19, T 144 N R No 29 W, 5th P.M.

Field notes of the survey of section No 19 Township No 144 N Range No 29 W, 5th Principal Meridian, as made by John W. Curo County Surveyor of Cass County, Minnesota.

Nov 15th 1906 Charles Parent and James Regan axmen and chainmen I use a Keuffel and Esser transit and a 100 ft chain,

At the corner of sections 17, 18 19, 20, T 144 N R 29 W, Government notes call for a post and the following bearing trees Poplar 12N 45°W 31 links, Poplar 7S 19° W 39 links Maple 6 N 69°E 26 links Birch 6 S 44° E 17 links, We find all of the bearing trees except the Maple and set an oak post for the true corner and mark new bearing trees as follows: Birch 2 N 21° E 14.55 feet,

November 16th 1906 Charles Parent and James Regan axmen and chainmen Beginning at the corner to sections 17, 18, 19, 20, T 144 N Rge 29 W. run South on 8°35' variation: At 1320 feet set stake at 2640 feet set tall stake near $\frac{1}{4}$ corner between sections 19, and 20, at which point the notes of the Government survey call for a post and the following bearing trees: Birch 6S 68° W 31 links Birch 6N 34° E 36 links; All seem to be gone and we continue South at 3960 feet set tall stake at 5280 ft set stake The corner to sections 19, 20, 29, 30, sets South 120 feet.

At the corner to sections 19, 20, 29, 30, T 144 N R 29 W, the notes of the original survey call for a post and the following bearing trees: Tam 6 S 47° E 24 links Ash 5 S 44° W 105 links Tamarac 12, N 50° W 39 links, Tamarac 4 N 17° E 21 links We find all of the old bearing trees from which we set an oak post for the true corner.

Jan 21st 1907 H Halverson and A. Boyesen axmen and chainmen, at the $\frac{1}{4}$ corner on the West side of sec 19 T 144 N R 29 W, the notes call for a post and the following trees Maple 6 N 50° E 17 links Maple 4 S 58° W 25 links we find both the old trees from which we set a wood stake for the $\frac{1}{4}$ corner and run south on 9° variation: at 1320 ft set stake at 2640 ft set stake for the true Southwest corner of section 19, where notes call for Maple 6 N 75° E 30 links, Maple 4 N 10° W 14 links, Maple 4 S 40° W 16 links White Elm 20S 57° E 21 links, we find the old trees from which we set the true corner and drive a wood stake.

Jan 25th 1907. Frank A Hart and I begin at southeast corner of sec 19 and run west on 7° variation at 3630 ft intersect the Range line at a point 106.38 ft North of the true Southwest corner of the section. Correcting back at 907 set $\frac{1}{16}$ S 2650 ft at 1814 set $\frac{1}{4}$ corner south 53 feet at 2721 set $\frac{1}{16}$ south 79.50 feet.

Recorded Aug 22 1911

John W. Curo
County Surveyor Cass Co. Minn.

Field notes of the survey of section No 30 Township No 144 N range No 29 , W 5th Principal Meridian as made by John W. Curo County Surveyor of Cass County Minnesota, Nov 16th 1906 C Parent and J. Regan axmen and chainmen. we use a K & E transit and a 100 foot chain.

We go to the corner of sections 19, 20, 29, 30, T 144 N R 29 W, where the notes of the original Government survey call for a post and the following bearing trees: Tamarac 6, S 47 E 24 links. A Ash 5 S 44 W 10 5 links Tamarac 12 N 50 W 39 links Tamarac 4 N 17 E 21 links We find all of the old bearing trees from which we set an oak post for the true section corner.

Dec 31st 1906 T. Siem and I Begining at the corner of sections 19, 20, 29 30, T 144 R 29 W. we run South on 7° variation at 1320 feet we set a ball stake at 2640 feet we set a tall stake for temporary $\frac{1}{4}$ corner between sections 29, 2nd 30, at which point the notes call for a post and the following bearing trees: Balsam 6, S 39° E 12 links Balsam 4 N 10° W 9 links All seem to be gone and we continue our line South: At 3960 feet set tall stake at 5280 feet set a tall stake: Variation changes to 3° 30' taking our line as a meridian the true corner to sections 29, 30, 31, and 32 bears S 86° 30' E 197 feet. At this point the notes call for a post and the following bearing trees: Basswood 16, N 23° W 38 links, Ironwood 4 N 69° E 22 links Ironwood 6 S 11° E 28 links Balsam 5 S 47° W 16 Links, We find all of the old trees from which we set a wood stake for the true section corner.

Jan 24th 1907 At Meander Corner No 12 on the North side of Sucker bay the West side of Section 30 T 144 N R 29W the notes call for a post and the following bearing trees: White birch 5 N 19° W 30 links Spruce 5 N 42° E 12 links, I find the old Birch bearing tree standing plainly marked from which I set a new stake for the true corner and mark new bearing trees as follows: Cedar 12, N 35° W, 16 feet. Cedar 8 N 25° E 22 feet.

Jan 25th 1907 Frank A. Hart and I Begining at M. C. No 12 run North on 10 degrees variation at 1093.62 feet we intersect the true Northwest corner of section 30 T 144 N R 29 W, at which point we find the post set Jan 21st 1907 by H. Halversen A. Boyerson and I From old Government bearing trees as follows: Maple 6 N 75° E 30 links Maple 4 N 10° W 14 links Maple 4, S. 40°W, 16 links Elm 20S, 7° E 21 links,

Begining at the Northeast corner of Sec 30 we run west on 7° variation at 3630 feet we intersect the range line 106.38 feet north of the Northeast corner of section 30 Correcting back: At 907 ft set 1/16 S 2650 feet At 1814 set $\frac{1}{4}$ corner 53 feet South, at 2721 set 1/16 south 79,50 ft.

Jan 28th, 1907. H. Halversen and I begin at corner to sections 29, 30, 31, 32, and run West on 9° variation at 1600 feet intersect East bank of Leech lake but find no Meander Corner: Chain West on ice: At 3485 feet intersect our preliminary line 3900 feet North of Meander Corner No.10

Recorded Aug 22 1911

John W. Curo
County Surveyor Cass Co. Minn.

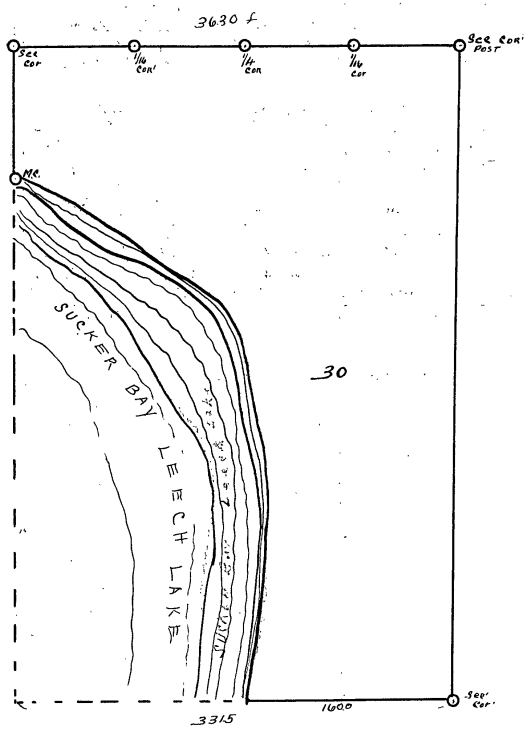
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PLAT-

Sec 30 T144N R29W 5 PM

SCALE: 4 INCHES = 1 MILE

SURVEY RECORD NO 125.



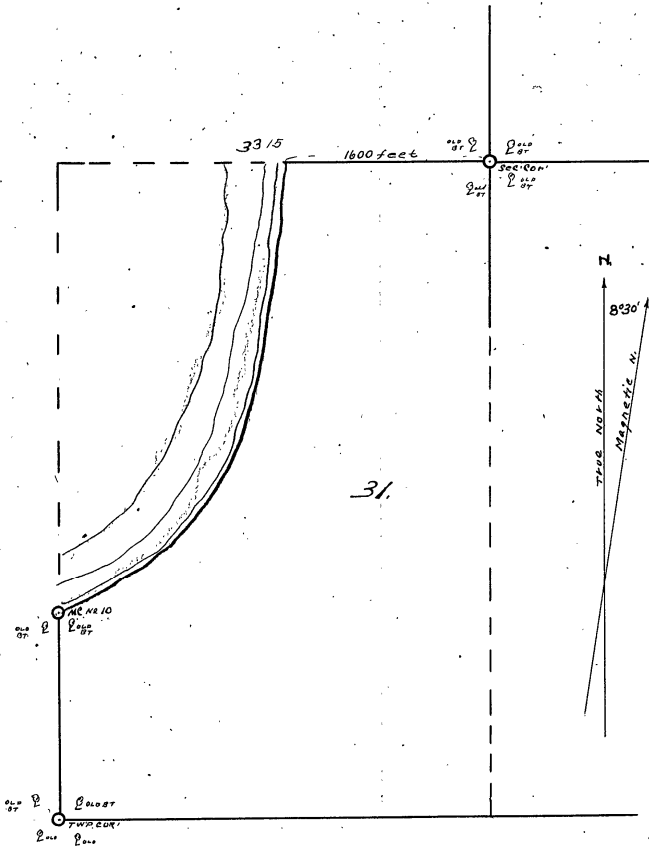
Surveyed Nov 16th 1906 to Jan 28th 1907
Recorded August 22nd 1911
John W. Curo Co Surveyors Cass Co Minn

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-PLAT-

Sec 31 T144 R29 5 PM.
SCALE: 6" = 1 MILE

SURVEY RECORD No 126.



Surveyed Dec 31st 1906 to Mar 25th 1907
 Recorded August 22nd 1911
 John W. Cress Co. Surveyors & Cass Co. Minn.

Field notes of the survey of section No 31 Township No 144 N, Range No 29 W, 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass County Minnesota,

Dec 31st, 1904, I use a K & E transit and a 100 foot steel chain: T. Siem and I chainmen and axmen: going to the corner of sections 29, 30, 31, 32, Twp, 144 N Rge 29W, we look for the corner where Government field notes call for a post and the following bearing trees: Basswood 16, N 69° E 22 links: Ironwood 6, S 11° E 28 links, Balsam 5, S 47° Wm 16 links We find all of the old trees from which we set a wood stake for the true section corner by flet measurement taken from the face of the old trees.

J Jan 28th 1907 H. Halverson and axmen and chainmen: Going to Government Meander Corner No 10 on the South shore of Sucker Bay and the West boundry of section 31. Twp 144 N R 29W, we look for the corner where Government field notes call for a post and the following bearing trees, White Oak 14, N 51° E 23 links. White Birch 12, S 26° W, 51 links we find the oak standing plainly marked and the foot of the Birch from which we set a wood stake for the true corner, and run a preliminary line North on the ice: Then going to the corner of sections 29, 30, 31, 32, we run a line West on 9° variation: at 1600 feet enter Sucker Bay and look for Meander Corner No 11, between sections 30, and 31, where the notes call for a post and the following bearing trees, Ash 6, S 70° E 36 links. Elm 4, N 68° E 27 links We find not ing and chain west on the ice and at 3485 intersect our preliminary line at a point 3900 feet North of Meander post No 10.

Going back to Meander post No 10 of Twp 144 N Rge 29 W, I run a compas line South between sections 31 and 26, only pacing the line to get the approximate distance 8°458 var: at 630, pace I intersect the corner to Township 144 and 144 N Range 29, and 30 W, at which point the notes of the original survey call for a post and the following bearing trees: Cedar 20, N 41° E 11 lks Cedar 18, N 43° W 14 links Fir S 24° W 12 links: Fir 10 S 8° E 9 links I find all of the old bearing trees well marked and on digging into the moss I find the point of the old stake, I square up a post made from a pine knot and drive it well down for the true Township corner.

Jan 29th 1907 we continue North on the ice from Meander Corner No 10 Between sections 31 and 36. 16° 30' variation at 3618.78 feet set temp' section corner on ice: at 6258.78 ft set temp' ¼ cor' at 7805.16 set temp' M. C. No 12 no ice the true M. C. stands 494, 84 feet North and 390 feet East Var 16° 30' Correcting up sec Cor' 3618.78 goes N 229.43 ft and East 170 ft The ¼ corner at 5258.78 goes N 397, ft and E 249 ft.

Mar 25th 1907 Jas Blane and I chain from the corner to sections 29, 30, 31, 32 west to the corner of 30, 31, 25, and 26. on the ice and find distance 3315. feet.

Recorded Aug 22 1911

John W Curo
County Surveyor Cass Co. Minn.

Field notes of the survey of Section No 32 Township No 144 N. Range No 29 W. 5th Principal Meridian, as made by John W. Curo County Surveyor of Cass County Minnesota

Dec 31st 1907 I use a K & E transit and a 100 foot steel chain: T Siem and I chainmen and axmen going to the corner of sections 30, 31, 32, Twp 144 N, Rge 29W we look for the corner where Government field notes call for a post and the following bearing trees: Basswood 16, N 23° W 38 links Ironwood 4 N 69° E 22 links. Ironwood 6 S 11° E 28 links Balsam 5 S 47° W 16 links We find all of the old trees from which we set a wood stake for the true section corner, by flat measurement taken from the face of the trees,

Jan 28th 1907 H. Halverson and I axmen and chainmen: Going to Government Meander Corner No 10 on the South shore of Sucker Bay the West boundry of section 31. Twp 144 N R 29 W. we look for the corner where government notes call for a post and the following bearing trees: White Oak 14 N 51° E 23 links. White Birch 12 S 26° W, 51 links we find the Oak standing plainly marked and the root of the birch from which we set a wood stake for the true corner and run a preliminary line North on the ice: 16° 30' Then going to the corner of sections 29, 30, 31, 32, we run a line West on 9° variation: At 1600 feet enter Sucker Bay and look for Meander Corner No 11 between sections 30 and 31 where the notes call for a post and the following bearing trees: Ash 6, S 70° E 36 links. Elm 4 N 68° E 27 links. We find nothing and chain west on the ice and at 3485 intersect our preliminary line at a point 3900 feet north of Meander post No 10,

Going back to Meander post No 10 of Twp 144 N, Rge 29 W, I run a compass line South between sections 31 and 32 only pacing line to get the approximate distance 8° 45' at 630 paces I intersect the corner to Townships 143 and 144 N Ranges 29 and 30 W, at which point the notes of the original survey call for a post and the following bearing trees: Cedar 20, N 41° E 11 links Cedar 18, N 43° W, 14 links: Fir, S 24° W 12 links: Fir 10 S 8° E 9 links I find all of the old bearing trees well marked and on digging into the moss I find the point of the old stake. I square up a post made from a pine knot and drive it well down for the true Township corner.

Jan 29th, 1907 we continue North on ice from Meander Corner No 10: between sections 31, and 36. 16° 30' variation: at 3618.78 feet set temp' section corner on ice: 6258.78 ft set temp' $\frac{1}{4}$ cor' at North and 390 feet East Var 16° 30' Correcting up sec Cor' 3618.78 goes N 229.43 ft and East 170 ft. The $\frac{1}{4}$ cor' at 5258.78 goes N 397 ft and E 249 feet.

Mar 25th, 1907. Jas Blane and I chain from the corner to sections 29, 30, 31, 32, west to the corner of 30, 31, 25, 36, on the ice and find the distance 3315 feet.

Mar 26th, 1907 Beginning at the Southwest corner of Township 144 N Range 29, W, I run East on 9° variation compass line, pacing my measurements: at 1000 look for $\frac{1}{4}$ corner at 2000 paces look for Section corner, at 3000 paces look for $\frac{1}{4}$ corner find nothing: at 3500 paces I find the Southeast corner of section 32, T 144N R 29 W, at which point the notes call for Cedar 15, N 85° E 73 links Cedar 12, N 79° W 53 links Cedar 7, S 87° W 83 links Cedar 8 S 87° E 49 links I find all of the trees and the old stake which I replace by making a new stake which I drive for the true corner.

Recorded Aug 27 1911

John W. Curo
County Surveyor Cass Co. Minn.

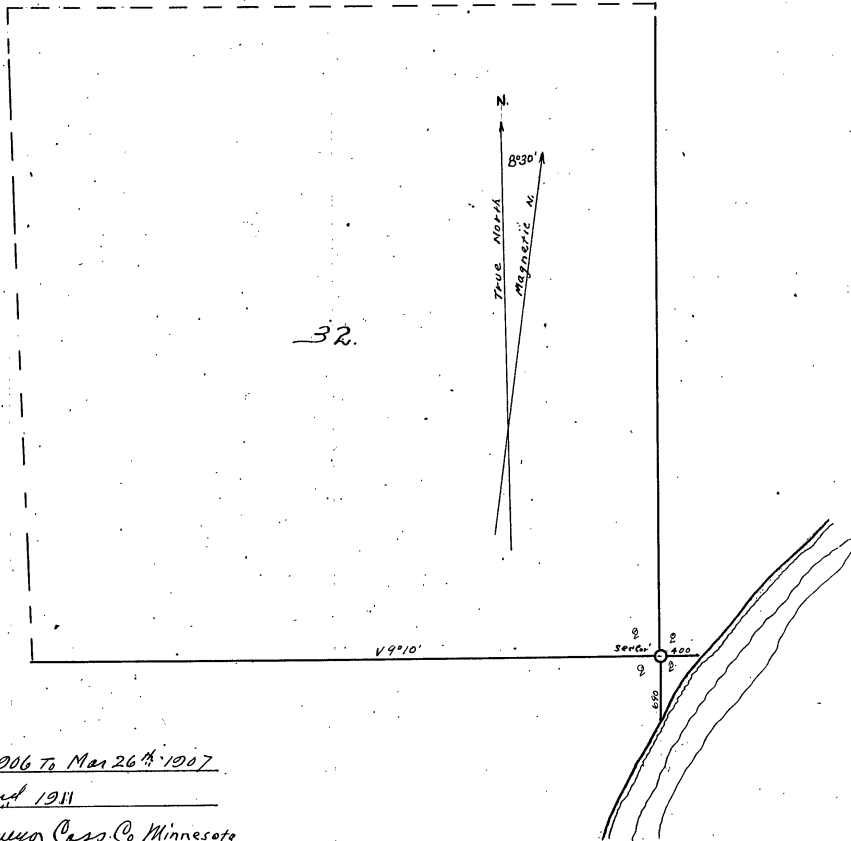
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-PLAT-

Sec 32 T144N R29W 5 PM

SCALE 6" = 1 MILE

SURVEY RECORD NO 127



Surveyed Dec 31st 1906 to Mar 26th 1907
Recorded August 22nd 1911
John W. Curo, Co Surveyor Cass Co Minnesota

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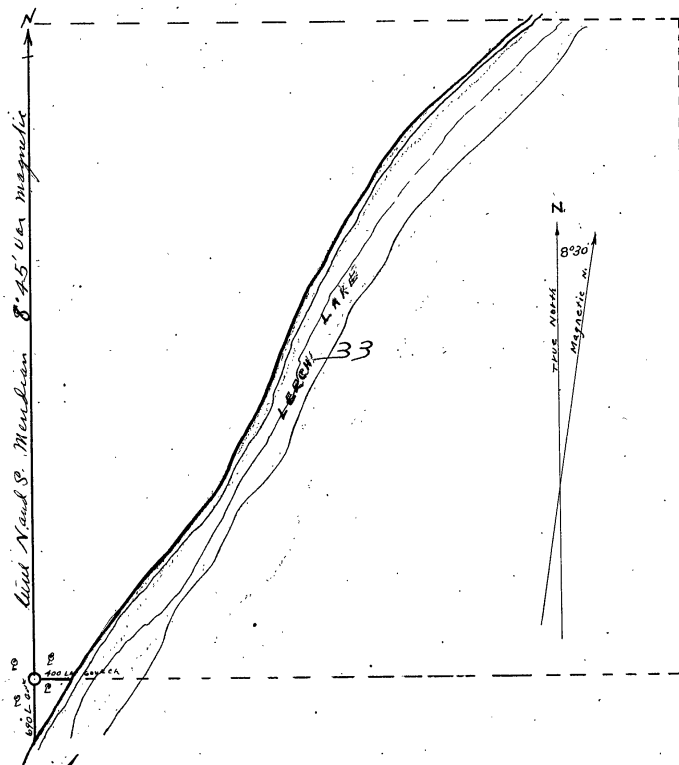
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OF

Sec 33 T 144 N R 29 W 5 PM

Scale 4 inches = 1 mile

SURVEY RECORD NO 128.



Survey commenced	Dec 30 th 1906
" finished	March 26 th 1907
" recorded	Sept 11. 1911

John W. Curo. Co. Surveyor Cass Co. Minnesota

Field notes of the survey of section No 33 Township No 144 N, Range No 29, W, 5th Principal Meridian, as made by John W. Curo County Surveyor Cass County Minnesota,

Dec 30th, 1906. T Seim and I axmen and chainmen: we use a K & E transit and a 100 foot steel chain. As we wish to locate the Northwest corner of section 33 and cannot find the bearing trees we begin a mile North at the corner of section 20, 21, 28, 29, where notes call for a post and the following bearing trees: Birch 16. S 15 W 54 links Elm 12, S 23 E 58 links Maple 6 N 26 W 17 links. Basswood 6 N 10 W 37 links. we find all the trees and set a wood stake for the true corner and start Seim cutting a line South.

Mar 22nd, 1907 J. Blain and I chaining beginning at the corner to sections 20, 21, 28, 29, we run South on $8^{\circ}35'$ variation: at 2640 ft find no corner at 5280 feet set stake and look for the Northwest corner of section 33 being the corner to sections 28, 29, 32, 33, T 144 N. R 29 W, where the notes call for: Tamarac 6, S 42 W 32 links Tamarac 8 N 40 W 43 links Tamarac 6 S 25 E 26 links Tamarac 7 N 22 E 11 links All seem to be gone:

March 26th, 1907 In order to find the southwest corner of section 33 I begin at the Southwest corner of Township 144 N R 29 W. and run a compass line east on 9° variation at 3500 paces being about 9240 feet I intersect the Southwest corner of section 33 at which point the notes call for a post and the following bearing trees: Cedar 15 N $85^{\circ}E$ 73 links Cedar 12 N 79 W 55 links Cedar 7 S 87 W 83 links Cedar 8 S 87 E 49 links, I find all of the trees and the old stake which I replace with new one, driven for the true corner This measurement shows the Southeast corner of section 33 T 144 N R, 29 W to be 1320 feet closer to the township corner than Government records show.

Beginning at the Southwest corner of section 33 I run east on 9° variation 264 feet and look for Meander post No 1 at which point the notes call for a post and the following bearing trees: White Birch 5 N 79 W 180 links White Birch 4 S 82 W, 186 links I can find no traces of the old corner or bearing trees:

Going back to the Southwest corner of section 33, I run North on $8^{\circ}35'$ variation at 1320 feet I set a small stake at 2640 feet I set a small stake for the $\frac{1}{4}$ corner on the West side of section 33 at which point the notes call for Tamarac stub 4 S 11 W 119 links, Tamarac stub 6 N 29 E 206 links I can find no trace of the old corner. *all courses lined from the true Meridian*

Recorded *Sept 11th 1911*

John W Curo
County Surveyor Cass Co, Minn.

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Field notes of the survey of section 8 Township No 144 N Range No 29 W 5th Principal Meridian, as made by John W. Curo County surveyor of Cass County Minnesota

I use a Survey Compass and a 100 foot steel chain

Jan 19th 1907 A Boyeson and T. Olson axmen and chainmen: In order to locate the Northwest corner of section 8 we go to the $\frac{1}{4}$ corner between sections 7 and 8 of T 144 N. R 29 W at which point the notes of the old Government survey call for a post and the following bearing trees: White pine 22 S 85° E 12 links we find the tree plainly marked from which we set a wood stake for the true $\frac{1}{4}$ corner measurements taken from the face of the tree, with a variation of 8° 35' as a meridian:

Beginning at the $\frac{1}{4}$ corner post just set we run North on 8° 35' var at 1320 feet set small stake for temporary 1/16 corner at 1400 feet enter tamarac swamp which bears NE and SW at 1955 leave tamarac swamp which bears NE and SW at 2640 feet set small stake for temporary corner to sections 5, 6, 7, 8, at which point the notes of the old Government survey call for a post and the following bearing trees: Cedar 10, S 60° W 7 links Spruce 14, S 50° E 23 links Spruce 6 N 45° W 60 links Cedar 12 N 26° E 90 links: I cannot find any marks of this old corner or bearing trees and continue our line North: at 5045 feet enter solid ground which bears E & W at 3445 feet leave solid ground and enter Tamarac swamp at 3960 feet set small stake for temporary 1/16 corner at 5280 feet set small stake for temporary $\frac{1}{4}$ corner between sections 5 and 6, T 144 N R 29 W, at which point the notes of the old Government survey call for a post and the following bearing trees: Tamarac 13 S 24° E 16 links Spruce 5 S 18, W 17 links: I find both of the bearing trees from which I set a wood stake for the true $\frac{1}{4}$ corner by flat measurement from the face of the trees after which the trees stand correct for course at 8° 30' variation our stake No 5280 sets 26 feet South and 50 feet west of the true $\frac{1}{4}$ corner but as the chaining was done very rough through the brush I do not think it is correct.

Going back to stake No 2640 set for the temporary corner to sections 5, 6, 7, 8. I run East on 8° 35' variation at 525 feet enter solid ground at 1320 feet set small stake for temporary 1/16 corner: at 2640 feet look for the $\frac{1}{4}$ corner between sections 5 and 8.

At which point the notes call for a post and the following bearing trees: White Pine 20 S 46° W 19 links Maple 6, N 11° E 6 links All appear to be gone.

Recorded Aug 27 1911

John W. Curo
County Surveyor Cass, Co, Minn.

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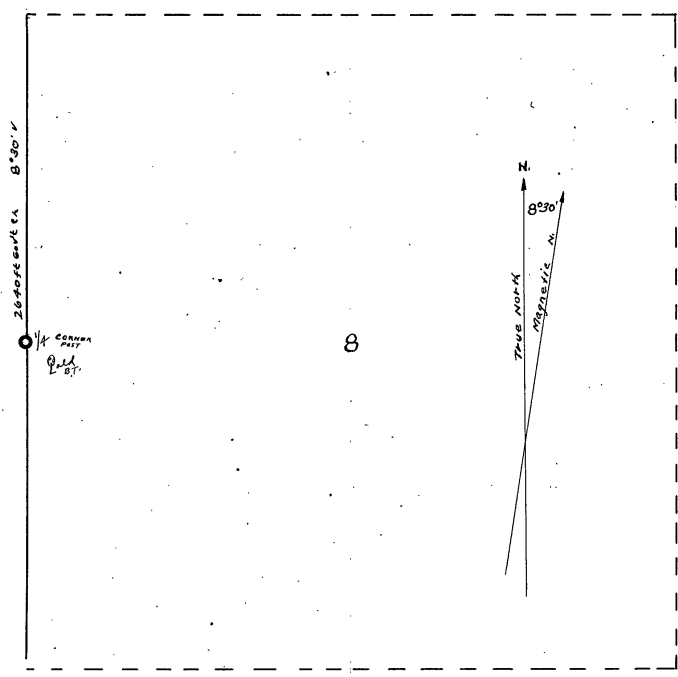
PLAT

Sec 8 T144 R29

SCALE: 1/4" = 1 MILE

5 P.M.

SURVEY RECORD NO 129.

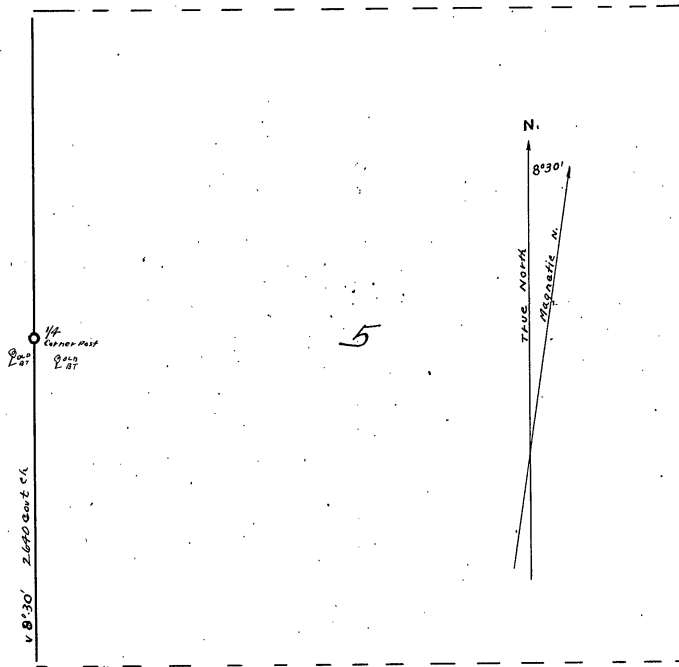


Surveyed Jan 10th 1907
Recorded Aug 22nd 1911
John W. Cunn. Co. Surveyor
Ross Co. Minnesota

-PLAT-

SURVEY RECORD NO. 130. Sec 5 T 144 N R 29 W 5 PM.

SCALE 6" = 1 MILE



Surveyed January 19th 1907
Recorded August 22nd 1911
John W. Cuss, Co Surveyor
Cass Co, Minnesota.

A

Survey record, No 130 Sec No 5 T No 144 N, R 29W, 5th, P. M.

Field notes of the survey of section 5 Township No 144 N, Range No 29, W, 5th Principal Meridian as made by John, W. Curo, County Surveyor Cass Co, Minn.

I use a Gurley compass and a 100 foot steel surveyors chain

Jan 19th 1907 A. Boyeson and T. Olson axmen and chainmen. In order to locate the Southwest corner of section 5 we go to the $\frac{1}{4}$ corner between sections 7, and 8 of T 144 N R 29 W, at which point the notes of the old Government survey call for a post and the following bearing trees, White pine 22, S 85° E 12 links we find the tree plainly marked from which we set a wood stake for the true $\frac{1}{4}$ corner measurements taken from the face of the tree with a variation on 8° 35' as a meridian: Beging at the $\frac{1}{4}$ cornerpost just set we run North on 8° 35' var: at 1320 feet set small stake for temporary 1/16 corner: at 1400 feet enter tamarac swamp which bears NE and SW at 1955 leave tamarac swamp which bears NE and SW at 2640 feet set small stake for temporary corner to sections 5, 6, 7, 8, at which point the notes of the old Government survey call for a post and the following bearing trees:

Cedar 10, S 60° W 7 links Spruce 14, S 50° E 23 links Spruce 6 N 45° W 60 links, Cedar 12 N 20° E 90 links: I cannot find any marks of the old corner or bearing trees and continue our line North: at 3045 feet enter solid ground which bears E & W at 3445 feet leave solid ground and enter Tamarac swamp. at 5280 feet set small stake for temporary $\frac{1}{4}$ corner between sections 5 and 6 T 144 N R 29 W at which point the notes of the old Government survey call for a post and the following bearing trees, Tamarac 13, S 24° E 16 links Spruce 5 S 18° W 17 links I found both of the bearing trees from which I set a wood stake for the true $\frac{1}{4}$ corner by flat measurement from the face of the trees after which the trees stand correct for course at 8° 30' variation, our stake No 5280 set 26 feet south west of the true $\frac{1}{4}$ corner but as the chaining was done very rough the brush I do not think it is correct.

Going back to stake No 2640 set for the temporary corner to sections 5, 6, 7, 8, I run East on 8° 35' variation: at 525 feet enter solid ground: at 1320 feet set small stake for temporary 1/16 corner: at 2640 feet look for $\frac{1}{4}$ corner between sections 5 and 8 at which point notes call for a post and the following bearing trees: White pine 20, S 46° W 19 links Maple 6 N 11° E 6 links. all seem to be gone.

Recorded Aug 27 1911

John W. Curo
County surveyor Cass Co. Minn.

Field notes of the survey of section No 7 Township No 144 N. Range No 29 W, 5th Principal, Meridian, as made by John W. Curo County surveyor of Cass County Minnesota.

I use a Gurley compass and a 100 foot steel surveyors chain.

Jan 19th 1907: A Boyeson and T. Olson axmen and chainmen: In order to locate the NE corner of section 7 we go to the $\frac{1}{4}$ corner between sections 7 and 8 of T 144 N R 29 W, at which point the notes of the old Government survey call for a post and the following bearing trees White Pine 22 S 85° E 12 links we find tree plainly marked from which we set a wood stake for the true $\frac{1}{4}$ corner measurements taken from the face of the tree, with a variation on 8° 35' as a meridian:

Beginning at the $\frac{1}{4}$ post just set we run North on 8° 35' var: at 1320 feet set small stake for temporary $\frac{1}{16}$ corner: at 1400 feet enter tamarac swamp which bears NE and SW at 1955 leave tamarac swamp which bears NE and SW at 2640 feet set small stake for temporary corner to sections 5, 6, 7, 8 at which point the notes of the old Government survey call for a post and the following bearing trees: Cedar 10 S 60° W 7 links Spruce 14, S 50° E 23 links Spruce 6, N 45° W, 60 links, Cedar 12 N 26° E 90 links: I cannot find any marks of the old corner or bearing trees and continue our line North at 3045 feet enter solid ground which bears E & W: at 3445 feet leave solid ground and enter tamarac swamp at 3960 feet set small stake for temporary $\frac{1}{16}$ corner at 5280 feet set a small stake for temporary $\frac{1}{4}$ corner between sections 5 and 6, T 144 N, R 29 W. at which point the notes of the old Government survey call for a post and the following bearing trees: Tamarac 13, S 24° E 16 links Spruce 5 S 18° W 17 links I find both of the bearing trees from which I set a wood stake for the true $\frac{1}{4}$ corner by flat measurement from the face of the trees after which the trees stand correct for course at 8° 30' variation, our stake no 5280 sets 26 feet south and 50 feet west of the true $\frac{1}{4}$ corner but as the chaining was done very rough through the brush I do not think it is correct.

Going to the Southwest corner of section 7, T 144 N R 29W, Government notes call for a post and the following bearing trees: Black ash 12, N 61° E 12 links: Cedar 4, N 3° W 11 links: Black ash 13, S 55° W. 6 links Cedar 5 S 45° E 20 links: We find all of the old trees from which we set a wood stake for the true corner.

Recorded Aug 22 1911

John W. Curo
County Surveyor Cass Co. Minn.

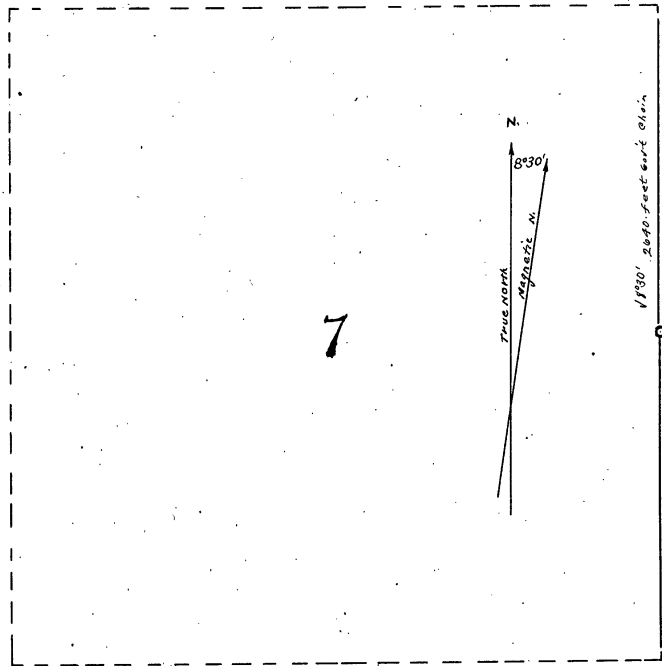
A

-PLAT-

Sec 7 T 144 N R 29 W

5 P.M. SURVEY RECORD No. 131

SCALE 4" = 1 MILE



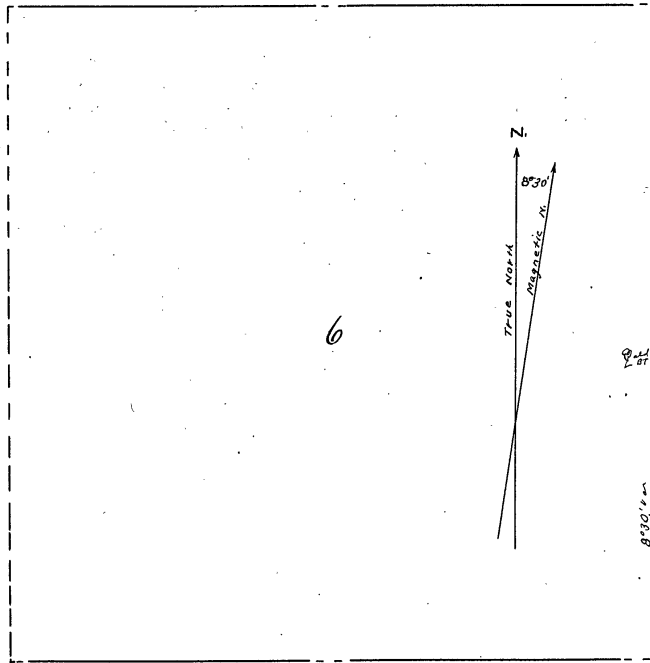
survey made Jan. 19, 1907
..recorded Aug. 22, 1914
John W. Cass, Co. Surveyor
Cass Co. Minnesota

A

-PLAT-

SURVEY RECORD No. 132 Sec 6 T 144^N R. 29^W 5 P.M.

SCALE: 1" = 1 MILE



SURVEY MADE Jan 19, 1907.

" RECORDED AUG 22, 1911.

John W. Cass, Co Surveyor

Cass Co, Minnesota

Field notes of the survey of section No 6, Township No 144 N, Range 29W, 5th Principal Meridian as made by John W. Curo County Surveyor of Cass County Minnesota, use a Gurley compass and a 100 foot steel surveyors chain.

Jan 19th, 1907 A. Boyeson and T Olson axmen and chainmen: In order to locate the Southwest corner of section 6 we go to the $\frac{1}{4}$ corner between sections 7, and 8 of T 144 N, R 29 W. at which point the notes of the old Government survey call for a post and the following bearing trees: White pine 22 S 85° E 12 links we find the tree plainly marked from which we set a wood stake for the true $\frac{1}{4}$ corner, measurements taken from the face of the tree, with variation on 8° 35' as a meridian.

Beginning at the $\frac{1}{4}$ post just set we run North on 8° 35' var: at 1320 feet set small stake for temporary $\frac{1}{16}$ corner at 1400 enter tamarac swamp which bears NE and SW at 1955 leave tamarac swamp which bears NE and SW at 2640 feet set small stake for temporary corner to sections 5, 6, 7, 8, at which point the notes of the old Government survey call for a post and the following bearing trees: SW Cedar 10 S 60° W 7 links Spruce 14 S 50° E 23 links Spruce 6 N 45° W 60 links Cedar 12, N 26° E 90 links: I cannot find any marks of the old corner or bearing trees and continue our line North: at 3045 feet enter solid ground which bears E & W at 3445 feet leave solid ground and enter Tamarac Swamp: at 3960 feet set small stake for temporary $\frac{1}{16}$ corner: at 5280 feet set small stake for temporary $\frac{1}{4}$ corner between sections 5 and 6 T 144 N, R 29 W. at which point the notes of the old Government survey call for a post and the following bearing trees: Tamarac 13, S 24° E 16 links Spruce 5 S 18° W 17 links I find both of the bearing trees from which I set a wood stake for the true $\frac{1}{4}$ corner by flat measurement from the face of the trees after which the trees stand correct for course at 8° 30' variation our stake No 5280 sets 26 feet south and 50 feet west of the true $\frac{1}{4}$ corner but as the chaining was done very rough through the brush I do not think it is correct.

Going back to stake No 2640 set for temporary corner to sections 5, 6, 7, 8, I run East on 8° 35' variation at 525 feet enter solid ground at 1320 feet set small stake for temporary $\frac{1}{16}$ corner, at 2640 feet look for $\frac{1}{4}$ corner between sections 5 and 8 at which point the notes call for a post and the following bearing trees: White pine 20, S 46° W 19 links: Maple 8 N 11° E 16 links all seem to be gone.

Recorded July 22 1911

John W. Curo
County Surveyor Cass Co. Minn.

Field notes of the survey of section No 18 Township No 145 N Range No 31 W, 5th Principal Meridian, as made by John W. Curo County Surveyor of Cass County Minnesota.

Aug 17th, 1906 Swore in Dave Jones and Herman Strucksberg as axmen and chainmen. at 9 A. M. we use a K & E transit and a 100 foot Chicago steel tape:

August 18th 1906 Jones and Strucksberg axmen: swore in Christ Wrayge who helped me chain.

At the corner to sections 7, 8, 17, 18, being the NE corner to section 18 the notes of the original survey call for a post and the following bearing trees: Jack pine 14, N 58° E 398 links Jack pine 12, S 5° W 348 links Jack pine 9 S 3° E 291 links Jack pine 16, N 3° W 900 links we find the distance between the NW and SE trees to be 2.44 feet longer than Government chain or 786.06 feet Government chain equals 788.50 feet my chain.

7-8-17-18

By propoertionate measurement between the NW and SE trees I set a hub for temporary section corner then run a line of short pins westerly at right angles: then begining at the bearing tree is Sec 8 I run S 58° W 262.68 feet to a point NW of my temporary corner hub thence S 5° W 229.68 feet to a point North and West of the bearing trees in section 18, which show that they do not stand perfect for course by measurement flet from my temporary corner hub to the NE and SW bearing trees the distance is perfect: We place a 4x4 x60 inch green tamarac post for the true corner at which point we find the old Government post after which the old bearing trees stand as follow Jack pine 14, N 56° E 262.68 feet Government chain Jack pine 12, S 5° W 229.68 feet Government chain Jack pine 9, S 3° E 192.66 feett my chain equals 192.06 feet Government chain or 0.06 feet long: Jack pine 116 N 3° W 595.84 feet my chain equals 594 feet Government chain being 1.84 ft long all courses turned from the true Meridian at 8° 30' magnetic variation.

Recorded Sept 11 1911

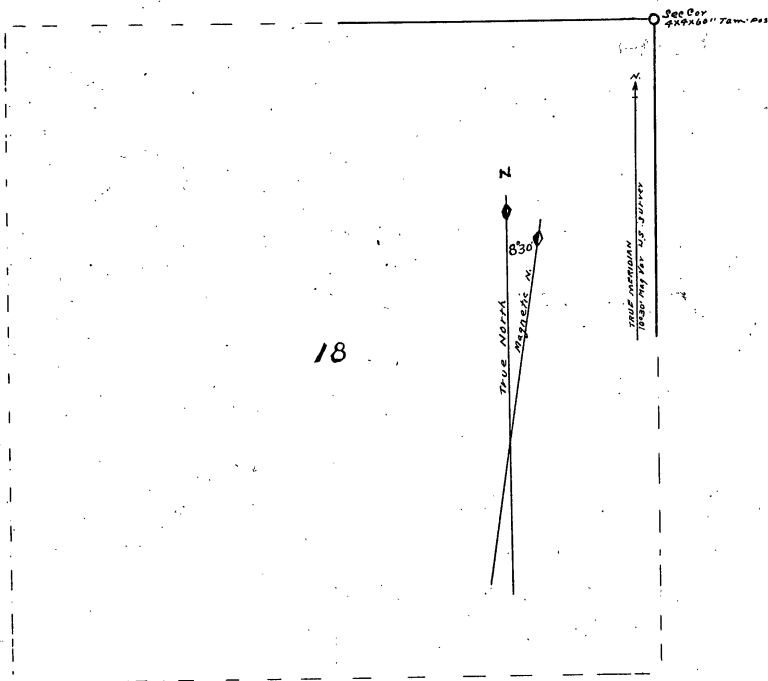
John W Curo
County Surveyor Cass Co.

A

PLAT OF

Sec 18 T 145^N R 31^W 5 PM SURVEY RECORD No. 133

Scale 6 inches = 1 mile

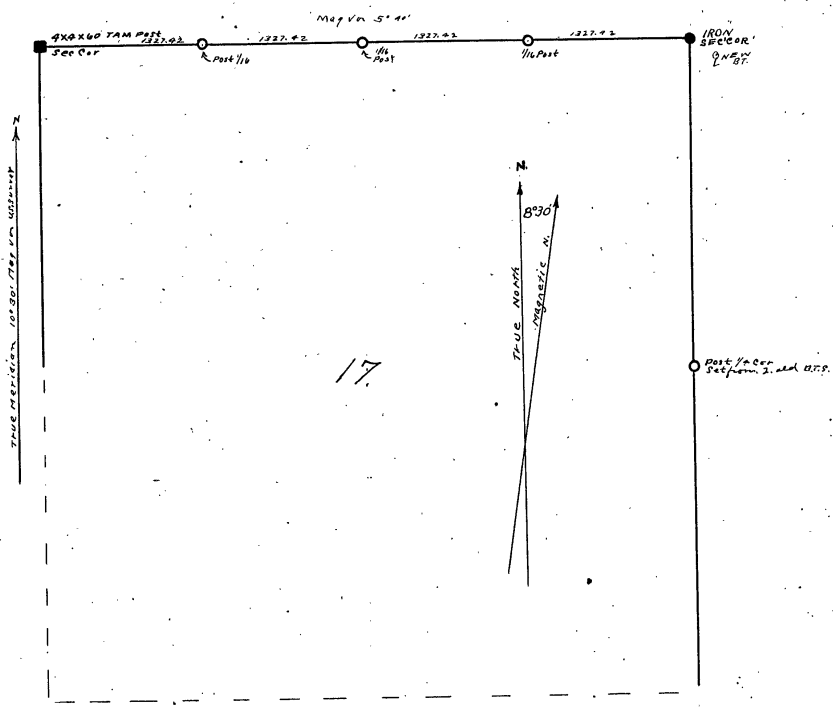


Survey commenced Aug 17th 1906
 " completed " 18 " 1906
 " recorded Sept 11 1911
 John W. Curo, Co. Surveyor Cass Co. Missouri

A

PLAT OF

SURVEY RECORD No. 134. Sec 17 T. 145ⁿ R. 31^w 5^{PM}
scale 6 inches = 1 mile



Survey Commenced Aug 17 1906
Completed " 19 "
recorded Sept 11 1911
John W. Cass, Co Surveyor Cass Co Minnesota

Field notes of the survey of section No 17 Township No 145 N. Range No 31 W, 5th Principal, Meridain, as made by John W, Curo County Surveyor Cass County Minnesota.

August 17th, 1906, Swore in Dave Jones and Herman Strucksberg as axmen and chainmen at 9 A. M. we use a K & E transit and a 100 foot Chicago steel tape.

August 18th 1906 Jones & Strucksberg axmen Swore in Christ Wrayge who helped me chain.

At the corner to sections 7, 8, 17, 18. being the NW corner to section 17, the notes of the original survey call for a post and the following bearing trees Jack pine 14, N 58° E 398 links Jack pine 12, S 5° W. 348 links Jack pine 9, S 3° E 291 links Jack pine 16, N. 3° W 900 links we find the distance between the NW and SE trees to be 2.44 feet longer than Government chain or 786.06 feet Government chain equals 788.50 feet my chain.

By proportionate measurement between the NW and SE trees I set a hub for temporary section corner then run a line of shorth pins westerly at right angles: then begining at the bearing tree is Sec 8, I run S 58° W 262.68 feet to a point west of my temporary corner hub thence S 5° W 229. 68 ft to a point North and West of the bearing tree in section 18, which shows that they do not stand perfect for course but by measurement flat from my temporary corner hub to the NE and SW bearing trees the distance is perfect: We place a 4x4x60 inch green tamarac post for the true corner at which point we find the old Government post after which the old bearing trees stand as follows Jack pine 14 N 56° E 262.68 feet Government chain Jack pine 12, S 5° W, 229.68 feet Government chain, Jack pine 9, S 3° E 192.66 feet My chain equals 192,06 feet Government chain or 0.60 feet long: Jack pine 16, N 3° W 595.84 feet my chain equals 594 feet Government chain all courses turned from the true Meridian, at 8° 30' magnetic variation.

August 19th 1906 Dave Jones HW Strucksberg Cahs Hensey axmen Christ Wrayge & I chaining Begining at the NW Cor of 17 run East at 5° 45' var: at 1329.90 ft set hub at 2659.80 feet set h hub at 3989,70 feet set hub at 5319.60 set hub the true corner from 8, 9, 16, 17, bears S 44° 16' W 14 feet we set the true corner from 3 old bearing trees and drive an iron stakk into the cerduroy and cover it with sand, and establish a new bearing tree as follows Jack pine 9 S 65° 37' E. 47.60 feet Var :9° 45' as meridian, Correcting back we set Hub 1329,90 S 44° 16' W, 3.50 feet with new bearings as follows: Jack pine 5 N 53° 40' 29,10 ft Jack pine 5, S 51° 33' W 12.95 feet.

At 2659.80 we run S 44° 16' W 7 feet and set true 1/4 corner with trees as follows: Jack pine 10 S 33° 27' feet Jack pine 8S 29° 30' E 36.30 feet At hub 3989.70 we run S 44° 16' 10.50 feet with Jack pine 8 S 51° 51' 16.80 feet Jack pine 6, S 9° 45' W, 16.40 feet as bearings:

Recorded Sept 11 1911

John W Curo
County Surveyor Cass Co. Minn.

7-8-17-18

7-8-17-18

8-9-16-17

8-17 1/4 E. of Twp line

1/4 8-17

8-17. 1/4 East half

Field notes of the survey of section No 7 Township No 145 N Range No 31 W, 5th Principal Meridian, as made by John W. Curro, County Surveyor of Cass County Minnesota.

August 17th 1906 Swore in Dave Jones and Herman Strucksberg as axmen and chainmen at 9 A. M. we use a K & E transit and a 100 foot Chicago Steel tape: P. M. Swore in Wm Grumbo who helped me chain: we establish the true 1/4 corner between sec's 7 & 8 T, 145 N R 31. W. from both old bearing trees which we find plainly marked and drive a stake.

7-8-14

August 18th 1906 Jones and Strucksberg axmen Swore in Christ Wrayge who helped me chain. At the corner to sections 7, 8, 17, 18, being the SE corner to section 7 the notes of the original survey call for a posy and the following bearing trees Jack pine 14, N 58° E 398 links Jack pine 12 S 5° W 348 links Jack pine 9, S 3° E 291 links Jack pine 16 N 2° W 900 links we find the distance between the NW and SE trees to be 2.44 feet longer than Government chain or 786.06 feet Government chain equals 788.50 feet my chain. By proportionate measurement between the NW and SE trees I set a hub for temporary section corner then run a line of short pins westerly at right angles: then begining at the bearing tree is sec 8, I run s 58° W 262.68 feet to a point west of my temporary corner hub thence S 5° W 229.68 feet to a point North and West of the bearing tree in section 18 which shows that they do not stand perfect for course but by measuring flat from my temporary corner hub to the NE and SW bearing trees the distance is perfect: We place a 4x4x60 inch green tamarac post for the true corner at which point we find the old Government post after which the old bearing trees stand as follows: Jack pine 14 N 56° E 262.68 feet Government chain. Jack pine 12, S 5° W 229.68 feet Government chain Jack pine 9 S 3° E 192.6 feet My chain equals 192.06 feet Government chain or 0.60 feet long Jack pine 16 N 3° W 595.84 feet my chain equals 594.00 feet Government chain all courses turned from the true Meridian at 8° 30' magnetic variation.

7-8-17-18

Aug 20th 1906 D Jones and I chaining H. Strucksberg axmen Begining at the 1/4 corner between sections 7 and 8, we run North on 7° 30' variation at 1320 feet set hub at 2640 feet set a hub the true corner to sections 5, 6, 7, 8, bears S 2° 25' E, 42.50 feet At this point the notes call for: Norway pine 26, N 60° E 42 links Norway pine 14, S 84° E 70 links: Norway pine 18 N 58° W 76 links Norway pine 18, S 46° E 92 links we find the stumps of all the trees plainly marked from which we set a stake for the true corner,

7-8-14

5-6-7-8

Aug 25th: 1906 Henry Seley sworn as chainmen at 1/4 between sections 7 and 8 We set new trees as follows: Jack pine 8, N 61° 25' E 63.70 feet: Jack pine 6, N 69° 52' W 44.10 feet thence North to hub 1320 and run S 2° 25' E. 21.25 feet and set 1/16 with stump 24. S 84° 40' E 63.70 feet. Stump 20, N 78° 26' W, 22.50 Feet.

7-8-14

7-8-1/16

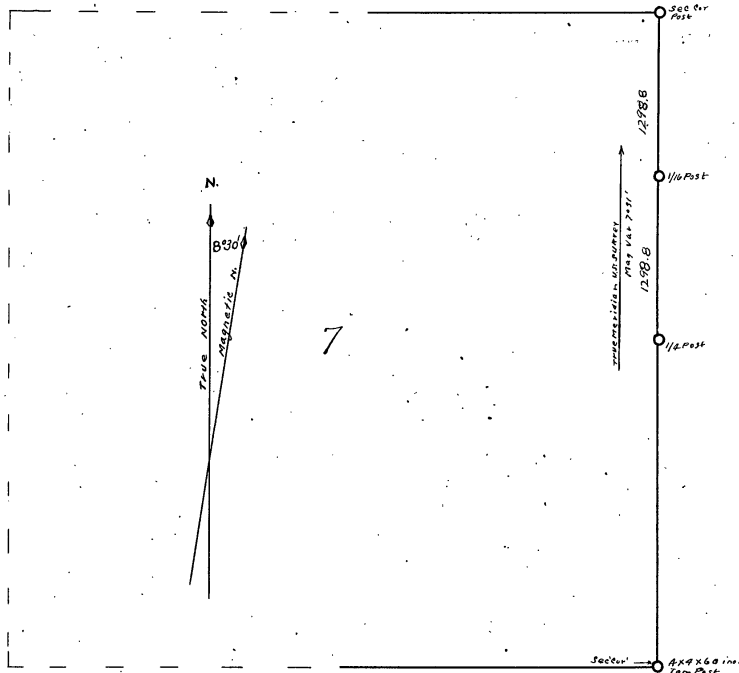
Recorded Sept 11 1911

John W. Curro
County Surveyor Cass Co. Minn.

A

PLAT OF

Sec 7 T. 145^N R. 31^W 5^{PM} SURVEY RECORD No. 135.
Scale 4 inches = 1 Mile



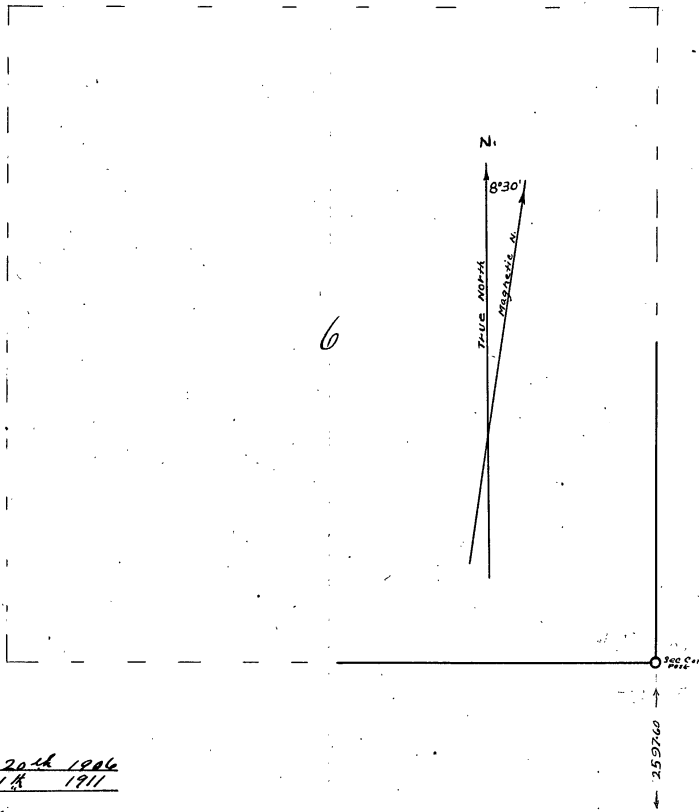
Surveyed August 17th to August 25th 1906
 Survey recorded Sept 11th 1911
 John W. Curran, Co. Surveyor Cass Co. Minnesota

A

PLAT OF

SURVEY RECORD No. 136 Sec 6. T 145^N R 31^W 5 P.M.

SCALE 6" = 1 MILE



Surveyed Aug 17th to 20th 1896
Survey recorded Sept 11th 1911
John W. C. Co. Surveyors
Class Co. Minnesota

A

Survey record No 136 Sec No 6 T. 145 N, R 31 W, 5th P. M.

Field notes of the survey of section No 6 Township N 145 N Range No 31 W 5th, Principal Meridian as made by John W. Curo County Surveyor of Cass County Minnesota, August 17th 1906 Swore in Dave Jones and Herman Strucksberg as axmen and chainmen at 9 o'clock A. M.

5-6-7-8

August 20th 1906 Dave Jones and I chaining, H. Strucksberg axmen: We look for the corner to sections 5, 6, 7, 8, T. 145N Rge 31 W, being the SE corner to sections 6, where the notes of the Government survey call for a post and the following bearing trees:

7-8-1/4

Norway pine 26, N 60° E 42 links Norway pine 14 S 84° E 70 links Norway pine 18 N 58° W 76 links Norway pine 18, S 46° E 92 links We cannot find the corner or trees and in order to locate the same we go to the $\frac{1}{4}$ corner between sections 7 and 8 and with a K & E engineers transit and a 100 foot Chicago steel tape we run North on 7° 30' magnetic variation:

5-6-7-8

At 1320.00 feet set a hub for the temporary 1/16 corner: at 2640 feet set a hub for the temporary corner to sections 5, 6, 7, 8: the true corner stands S 2° 25' E 42.50 feet We find all of the old bearing trees stumps from which we set a wood stake 4x4x60 inches well into the ground for the true corner. This shows that from the SE corner of section 6 south to the $\frac{1}{4}$ corner the distance is 2597.00 feet or 42 feet short of Government chain.

Recorded Sept 11 1911

John W. Curo
County Surveyor Cass Co. Minn

Field notes of the survey of section No 5 Township No 145 N. Range No 31 W, 5th Principal Meridian, as made by John W. Curo County surveyor of Cass County Minnesota August 17th 1906. Swore in Dave Jones and Herman Strucksberg as axmen and chainmen at 9 o'clock A-M.

August 20th 1906 Dave Jones and I chaining H Strucksberg axmen: We look for the corner to sections 5, 6, 7, 8, T 145 N Rge 31 W. being the SW corner to section 5, where the notes of the Government survey call for a post and the following bearing trees:

5-6-7-8

Norway pine 26, N 60° E 42 links Norway pine 14. S 84° E 70 links Norway pine 18, N 58° W, 76 link Norway pine 18, S 46° E 92 links: We cannot find the corner or the trees and in order to locate the same we go to the $\frac{1}{4}$ corner between sections 7 and 8 and with a K & E transit and a 100 foot Chicago steel tape we run North on 7° 30' magnetic variation

7-8 1/4

At 13200 feet set a hub for the temporary $\frac{1}{16}$ corner: at 2640 feet set a hub for the temporary corner to sections 5, 6, 7, 8, : the true corner stands S 2° 25' 42.50 feet. We find all of the old bearing trees stumps from which we set a wood stake 4x4x36 inches well into the ground for the true corner. This shows that from the SW corner of section 5 south to the $\frac{1}{4}$ corner the distance is 2597.00 feet of 42.00 feet short of Government chain.

5-6-7-8

Run East on 5° variation: at 1310.10 set hub at 2620.20 set hub for temporary $\frac{1}{4}$ corner between sections 5 and 8. All old bearing trees are gone:

7-8 1/4

Aug 23rd, 1906, Continue East at 3930.30 set hub at 5240.40 set hub for temporary corner to sections 4, 5, 8, 9, T, 145 N, R 31 W, : the true corner stands N 16° 35' 39.70 feet.

5-8 1/4

At this point the old field notes call for a post and the following bearing trees: Jack pine 8, N 64° E 27 links Jack pine 8, N 70° W 24 links Jack pine 6, S 6° W 44 links Jack pine 6 S 67° W 31 links, we set a stake for the true corner with new bearing trees as follows: Jack pine 14, N 57° 15' E 20 feet: Jack pine 14, S 77° 30' W 35 feet: Correcting back west: hub 3930.30 goes N 16° 35' W 29.77 feet from which jack pine 10 bears N 77° 20' E 10.50 feet Jack pine 9, S 30° 43' W. 58. 30 feet:

4-5-8-9

Hub 2620.20 goes N 16° 35' W. 19.85 feet wher we set the true $\frac{1}{4}$ corner with trees as follows: Norway pine 9, S 65° W 28.10 feet: Norway pine 9, S 61° 24' E 94 feet:

Hub 1310.10 goes N 16° 35' W, 9.92 feet with new trees as follows Jack pine 8, N 57° 50' E, 21.40 feet, Jack pine 6, S 21° 37' E, 28.80 feet.

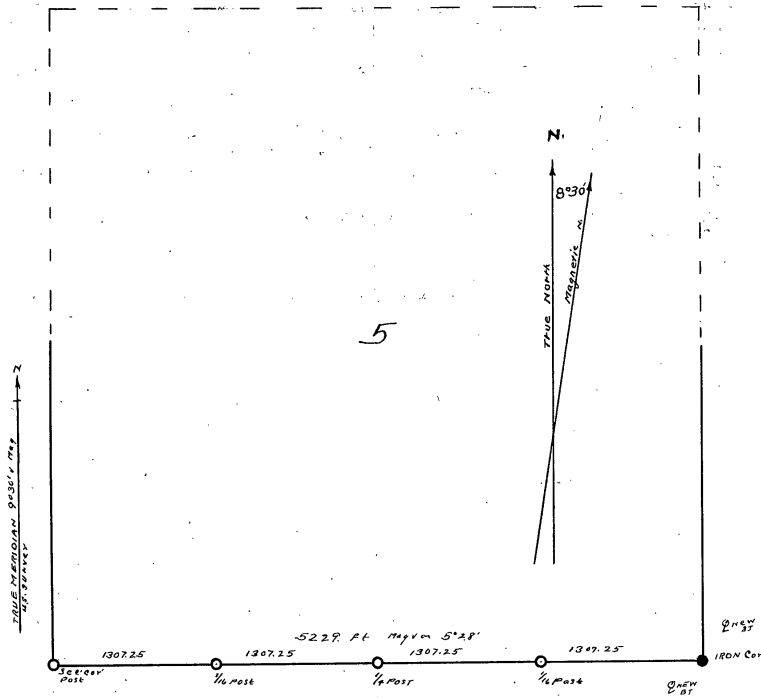
May 7th, 1907. I pull up the wood stake at the SE corner of section 8, and put in its place a 2x36 inch iron pipe for the true corner.

Recorded Sept 11 1911

John W Curo
County Surveyor Cass Co. Minn.

PLAT OF

Sec 5 T 145^N R 31^W 5^{PM} SURVEY RECORD No 137
scale 6" = 1. mile



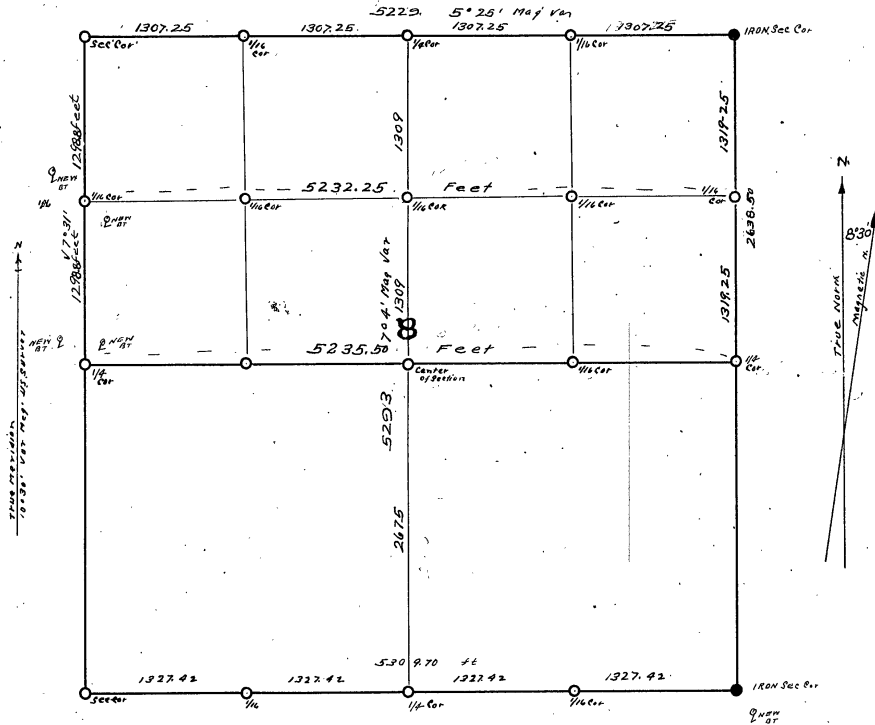
Survey begun August 20th 1906
 Finished May 7 1907
 Recorded Sept 11 1911
 John W. Cass, Co Surveyor Cass Co Missouri

A

PLAT OF

SURVEY RECORD No. 138 Sec 8. T. 14.5 N R. 31 W 5 PM

SCALE 4" = 1 MILE



Surveyed Aug 17th to 26th 1906
Survey recorded Sept 11 1911
John W. Curo Co Surveyors
Class Co. Minn.

Survey Record No 138, Sec 8 T. 145 N, R 31 W, 5th P. M.

Field notes of the survey of section 8, Township 145 N. Range 31 W. 5th Principal Meridian, as made by John. W. Curo County Surveyor of Cass County Minn. D, Jones H. Strucksberg Wm Grumbo: Christ Wrayge: C. Hensey: Martin Anderson: Swore in axmen and chainmen: We use a new taensit and a 100 foot steel tape: Survey begun August 17th, 1906. Ended August 26th 1906. set $\frac{1}{4}$ corner on E side from 2 old bearing trees set stake and run West: 1320: 4640: 3960: 5280. feet set hub: true $\frac{1}{4}$ on west side bears N 27° 38' E. 94 feet. set wood stake for $\frac{1}{4}$ from two old bearing trees set new ones: J Pine 8, N 61° 25' E 63.70 ft. J. pine 6 N 69° 52' W 44.10 ft. Run N. 7° 30' var 1320 hub: 2640 hub NW cor set from 4 old bearing trees stands S 2° 25' W 42.50 ft length of line 42.4ft: Correcting back set hub 1320 S 2° 25' W 21.35 ft set 1/16 with New bearing trees as follows: N pine stump 24, S 84° 40' E 63.70 feet Stump 20, N 78° 26' W, 22.50 feet Thence E 5° 30' Var' at 1311 hub 2622 Hub: 3933 Hub 5244 Hub: true 1/16 stands S 23° 12' W. 20.70 feet At this point we have set the true 1/16 with new bearings as follows: J. pine 5 S 72° 30' E 44.40 feet- Stump 8, S 70° 4' W 50.20 feet. Set SW cor from 4 old trees and run E 5° 45' var 1320.90 hub 2659.80 hub old Gov't trees are gone: at 3989.70 hub 5319.60 true SE cor sets S 44° 16' W 14 feet, set from 4 Gov't trees Drove iron for corner from which J. Pine 9 S 65° 37' E 47.60 feet correct hub 1329,90 from which J. pine 5 N 53° 40' E, 29.10 J. pine 5 S 51° 33' W 12.95. Correct $\frac{1}{4}$ hub 2659.80 from which J pine 10, S 33° 27' W, 22.80 feet J. pine 8 S 29° 30' E 36.30 ft. At 3989.70 correct 1/16 from which J. pine 8. S 51° 51' 16.80 ft J. pine 6, S 9° 45' W, 16.40 feet. which J pine 8.

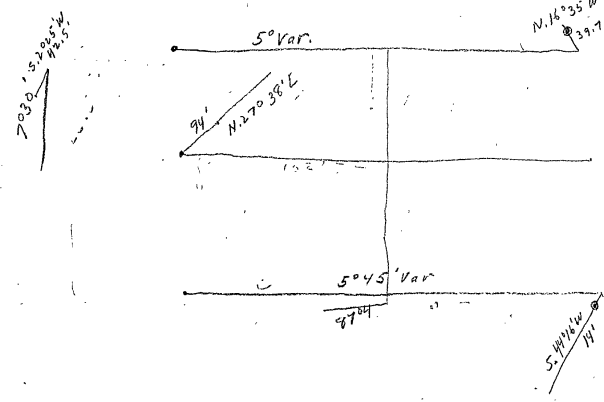
From NW corner run E. 5° var 1310.10 hub 2620.20 hub Gov't trees gone: At 3930.30 hub 5240.40 hub true NE cor set from 4 Gov't trees stands N 16° 35' W, 39.70 ft with new trees as follows: J pine 14, N 57° 15' E. 51.20 ft J. pine 14, 77° 30' W 35 ft we correct 3930.30 from which J. pine 10 N 77° 20' E 10.50 ft J. pine 9, S 30° 43' 58.30 ft We correct 2620.20 from which N p, 9, S 65° W 28.10 ft N. P. 9 S 61° 24' E 94 ft. We correct 1310.10 from which J pine 8, N 57° 50' E 21.40 ft J Pine 6, S 21° 37' E 28.80 ft

From $\frac{1}{4}$ on N side run S at 5280 $\frac{1}{4}$ stands S 81° 41' W 87.40 ft: Correct back N. From NE Cor: S, to $\frac{1}{4}$ is 2638.50 feet centre NE $\frac{1}{4}$ has J.P. 6 S 81° 18' W 11.40 ft J. P. 6 S 82° 23' E, 6.40 ft Centre of N $\frac{1}{4}$ has J. P. 4: N. 41° 25' W 37.70 ft J. P. 4, S 81° 10' E 24 ft Centre of NW $\frac{1}{4}$ has Stump 16, N 30° E 49.60 ft J. P. 5, S 42° 38' W 89.80 ft Centre of W $\frac{1}{4}$ has J. P 4, N 67° W, 5.70 ft J. P. 7, S 4° 30' E 4.70 ft Centre of section has J. P 6, N 68° 10' W, 13.60 ft J. P 8 S 9° E, 16.20 ft Centre of E $\frac{1}{4}$ has J. P. 5 N 23° W, 17.60 ft J. P. 8 S 37° 40' 13.20 ft.

I pull up the wood stake at the N. E. Corner and put in a 2x36 inch iron pipe for the true corner.

Recorded Sept 11 1911

John W. Curo
County Surveyor Cass Co. Minn.



A

Survey record No. 139 Section No 9 T. No 145 N, R. 31 W, 5th P. M.

Field notes of the survey of section No 9 Township No 145N, Range No 31 W, 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass County, Minnesota. Use a K and E transit and a 100 foot Chicago steel tape:

Aug 17th 1906 D. Jones and I set the 1/4 corner between sections 8 and 9 from both old Government trees and drove stake.

8-9- 1/4

August 19th. D. Jones C. Wrayge H. Strucksberg: C Hensey axmen and chainmen: we establish the corner to sections 8, 9, 16, and 17. from four old Government bearing trees and drive an iron drift bolt for the corner with a new tree as follows: Jack pine 9, S 65° 37' E 47.60 feet at 9° 45' variation

8-9-16-17

August 23rd, 1906 Wm Grumbo: C Wrayge D. Jones. M Anderson axmen and chainmen: At the corner to sections 4, 5, 8, 9, the Government notes call for a post and the following bearing trees: Jack pine 8, N 64° E 27 links Jack pine 8 N 70° W, 24 links: Jack pine 6 S 6° W 44 links Jack pine 6 S 67° W 31 links we find all of the trees from which we set a wood stake for the true NW corner of section 9 run South 2638.50 feet to the 1/4 corner

4, 5, 8, 9

May 7th, 1907 I pull up the wood stake at the corner to sections 4, 5, 8, 9, and put in an iron monument 2x36 inches in size for the true corner.

8-9- 1/4

May 30th 1907 A.D. Stanley John Matson and I begin at an iron monument at the corner to sections 9, 10, 15, 16, T 145 N R. 31 W. from old Government bearing trees and run N on 8° 10' variation: at 2640 feet the old Gov't bearing trees are gone at 5280 feet st hub for temporary c corner to sections 3, 4, 9, 10, at which point the notes call for a post and Jack pine 7m S 66° E 23 links Jack pine 8 N 75° E 37 links: Jack pine 6 N 73° W 134 links Jack pine 8, S 82° W 16 links We find the stumps of the old trees from which some one has set a stake correctly and we mark new trees as follows: Jack pine 5 S 63° 15' W, 37.40 feet with Meridian at 8° variation

4-5-8-9- IRON

From hub 5280 the true corner stands N 72° 8' W 21 feet: June 1st 1907 J Matson and A. D, Stanley: we work the transit on line between sections 9 and 16m and chain East at 2117 .40 set hub on hill: at 2640 hub at 3960 set hub at 5280 set hub the iron corner to sections 9, 10, 15, 16, sets 20 feet East making the line 5300 feet long Correction back we find the iron 1/4 corner set by Jas Canfield from two old Gov't bearing trees and it is 2643 feet East of the SW corner of section 9 and 2656.90 feet West of the SE corner of section 9 and 1.30 feet north of a straight line between the two points Correcting East hub 3960 goes East 11.30 feet and North 0.65 feet at which point we set a 2x48 inch iron pipe with cap for the true 1/16 corner: The angle of the SE quarter of section 9 is 90° 43' at a point 1131 feet west of the SE corner of section 9 I set a 2x48 inch pump pipe, capped for the SW corner of VanPelts Addition to Cass Lake:

9-10-15-16- IRON

Recorded Sept 11 1911

3-4-9-10

John W Curo
Co Surveyor Cass Co,

9-16

9-10-15-16 IRON

9-16- 1/4 IRON

9-16 1/16 IRON

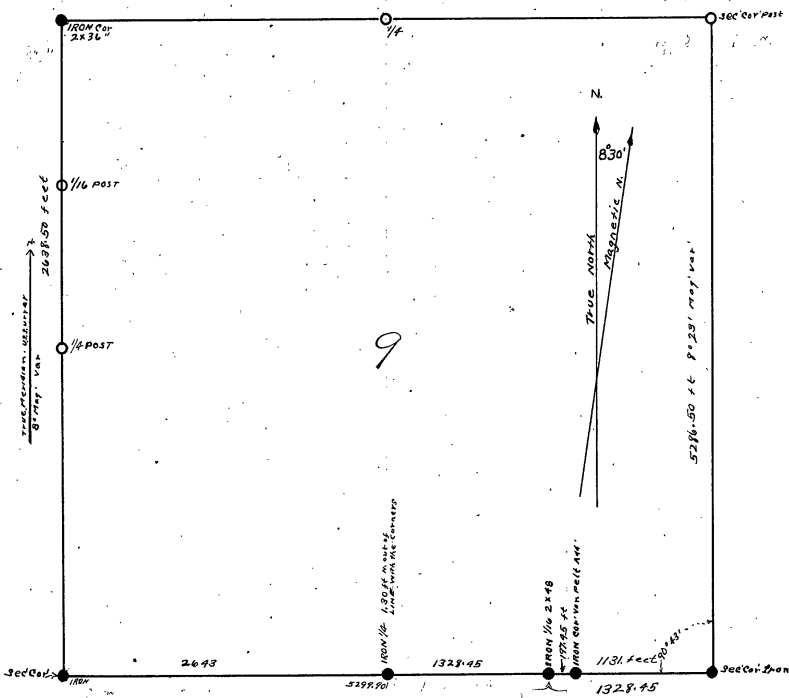
IRON COR.
VAN PELT ADDITION

A

PLAT OF

Sec 9. T145 R31 5 P.M. SURVEY RECORD No. 139

SCALE 6 INCHES = 1 MILE



Survey begun Aug 17th 1906
 Completed May 30 1907
 recorded Sept 11 1911

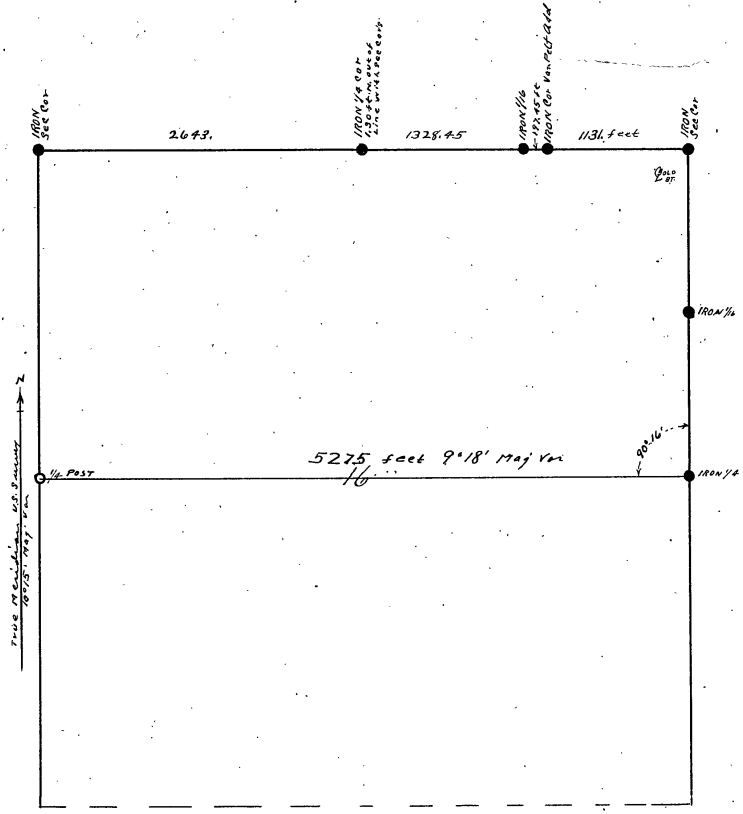
John W. Curran, Co. Surveyor Cass Co. Minnesota

A

PLAT OF

SURVEY RECORD No. 140. Sec 16. T 145 N R 31 W 5 PM.

Scale: 6 inches = 1 mile



Survey begun Aug 12th 1896
 finished May 8 1911
 recorded Sept 11 1911
 John W. Cass. Co. Surveyor Cass. Co. Minn.

-PLAT-
 Sec Cont'd to Page THIS BOOK
 16 " " 531 " " "

Survey record No 140 Section No 16 T No 145 N R 31 W 5th P.M.

Field notes of the survey of sectio No16 Township No 145 N Range No 31 W 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass County Minnesota, I use A K and E. transit and a 100 foot Chicago steel tape.

8-9-16-17

August 19th 1906 D. Jones C Wrayge H. Strucksberg C Hensey axmen and chainmen: we establish the corner to sections 8, 9, 16. and 17 from four old Government bearing trees and drive an iron drift bolt for the corner with a new tree as follows Jack pine 9, S 65° 37' East 47.60 feet at 9° 45' Variation.

9-10-15-16 IRON

May 30th 1907 A. D. Stanley John Matson and I begin at an iron monument at the corner to sections 9, 10, 15, 16, T. 145 N R, 31 W. set from old Government bearing trees and run N on 8° 10' variation:

9-16 1/4
9-10-15-16 IRON
9-16 1/4 IRON

June 1st 1907 J. Matson and A. DW Stanley, we work the transit on line between sections 9 and 16 and chain East at 2117.40 set hub on hill at 2640 hub at 3960 set hub at 5280 set hub the iron corner to sections 9, 10, 15, 16, sets 20 feet East making the line 5300 feet long. Correcting back we find the iron 1/4 corner set by Jas Canfield from two old Gov't bearing trees a and it is 2643 feet East of the NW corner of section 16 and 2656.90 feet west of the NE corner of section 16, and 1.30 feet North of a straight line between the two points, Correctiong East hub 3960 goes East 11.38 feet and North 0.65 feet at which point we set a 2x48 inch iron pipe with cap for the true 1/4 corner. The angle of the SE quarter of section 9 is 90° 43' at a point 1131 feet West of the NE corner of section 16 I set a 2x48 inch pump pipe capped for the SW Cor of VanPelts Addition to Cass Lake :

IRON 1/16 16-9

May 8th 1911 A. D. Stanley Walter Coats and I At the 1/4 corner between sections 15 and 16. we find a 2 inch iron post set correctly from the old Government bearing trees for the 1/4 corner from which we run West on 8° variation At 1320 feet set hub at 1760 feet Cross old Wagon road at 1765.40 hub at 2625 cross main wagon road at 2640 hub temporary centre of sec 16, at 2663 vtack in stump at 3451.60 hub at 3631 centre of G.N. Ry track at 3960 hub at 4514.30 hub at 4840.40 tack in stump at 5280 the 1/4 corner between sections 17 and 18 set from both old Government bearing trees . bears S 2° 20' E 119.80 feet I correct the East and West centre line then with transit on the 1/4 corner on East side I take the angle of the centre line with the East side of the Northeast quarter and find 90° 16' -

IRON 1/4 15-18

1/4 17-18

Recorded Sept 11 1911

John W Curo
County Surveyor Cass Co, Minn.

- NOTES -
See Cont'd to Page This Book
16 529

Field notes of the survey of section No 4 Township No 145 N Range No 31 W, 5th Principal Meridian, as Made by John W. Curo County Surveyor of Cass County Minnesota. I use a K and E transit and a 100 foot Chicago steel tape:

August 23rd 1906 Wm Grumbo C Wrayge D. Jones M. Anderson axmen and chainmen: We go to the corner to sections 4, 5, 8, 9, T 145 N Rge 31 W, Where Government notes call for a post and the following bearing trees: Jack pine 8, N 64° E 27 links Jack pine 8 N 70° W 24 links all of the trees from which we set a wood stake. 4x4x36 inches in size for the true corner.

4-5-8-9.

May 7th 1907 P. Gomache axmen and chainmen we go to the corner of section 4, 5, 8, 9, T 145 N R 31 W where we pull up the wood stake and put in its place an iron monument 2x36 inches in size set well into the ground for the true corner. from which the new bearing trees we set for our wood corner as follows: Jack pine 14, N 57° 15' E 51.20 feet Jack pine 14 S 77° 30' W 35 feet:

4-5-8-9. IRON

May 30th 1907 A.D. Stanley and J Matson axmen and chainmen: At the corner to sections 3, 4, 9, 10 T. 145 N R 31 W, the notes call for a post and the following bearing trees, Jack pine 7 S 66° E 23 links Jack pine 8m N 75° E 37 links Jack pine 6 N 73° W 134 links Jack pine 8 S 82° W 116 links We find the stumps of the old Government bearing trees from which some one has set a wood stake correctly, and we establish new bearing trees as follows: Jack pine 5, S 41° 21' E 39.60 feet; Jack pine 5, S 63° 15' W 37.40 feet with Meridian at 8° variation.

3, 4, 9, 10

July 1st 1907 In order to locate the $\frac{1}{4}$ corner on the South side of section 4 T 145 Range 31 W, I go to the $\frac{1}{4}$ corner on the South side of section 9 and with Ed M. McIntosh and Iver Fisvig as axmen and chainmen we run North At 1320 feet set hub at 2640 feet set hub at 3960 feet set hub at 5280 feet rough chain, the $\frac{1}{4}$ corner on the south side of section 4 sets West 12.70 feet At this point field notes call for a post and the following trees Jack pine 10 N 8° W 120 links Jack pine 6 S 16° E 48 links we find both trees and set a wood stake for the true $\frac{1}{4}$ corner.

4-9. $\frac{1}{4}$
9-16 $\frac{1}{4}$ 4-9 $\frac{1}{4}$

Recorded Sept 11, 1911

John W. Curo
County Surveyor Cass Co Minn.

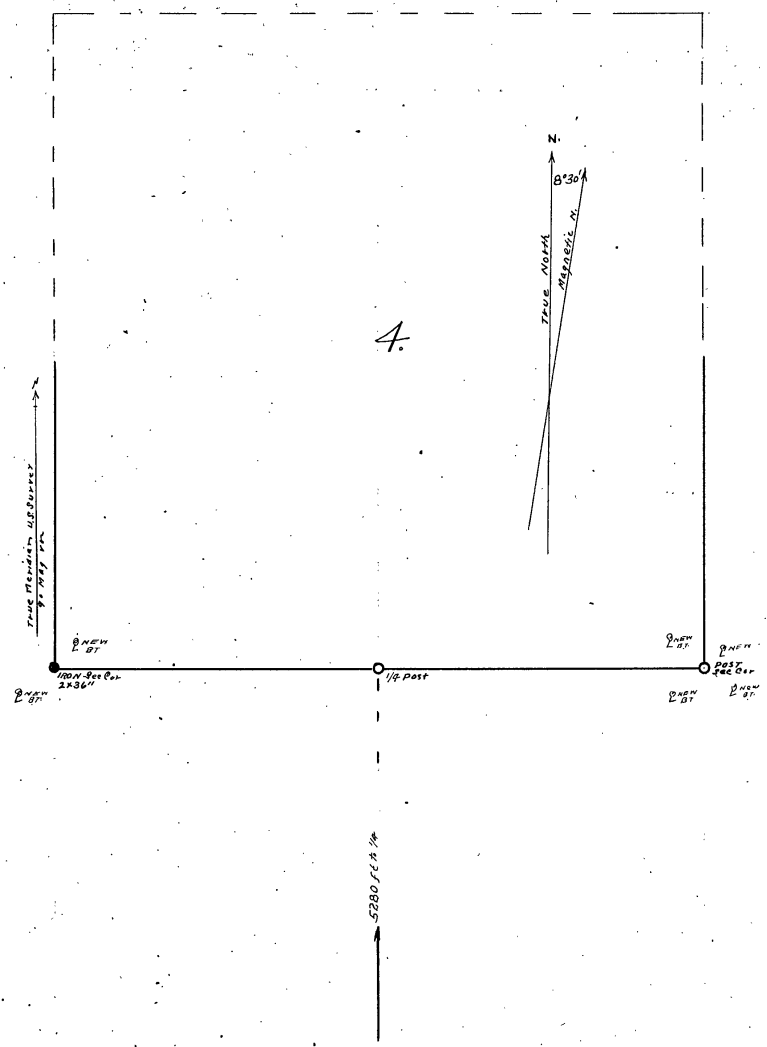
A

PLAT OF

Sec 4. T145^N R31^W 5^{PM}

SURVEY RECORD No. 141.

Scale 6" = 1. Mile



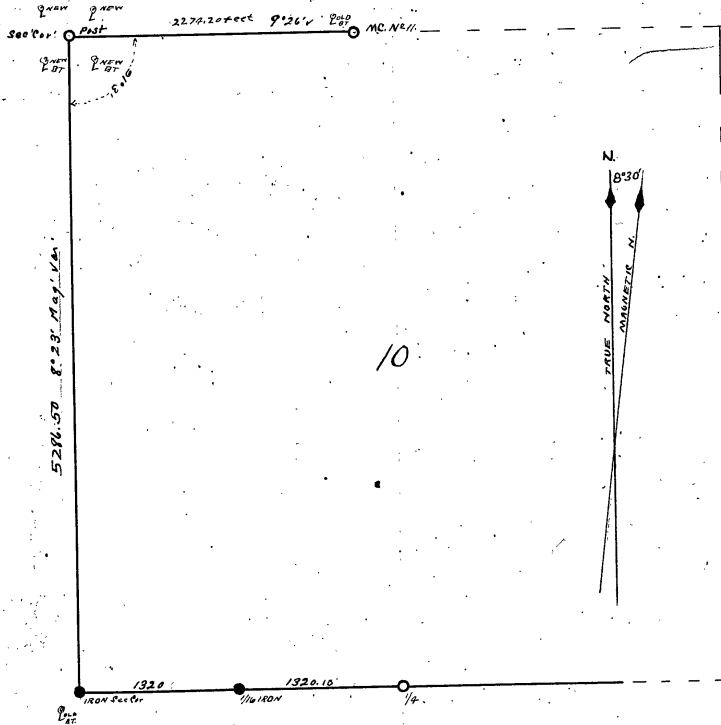
Survey commenced Aug 23 1906
 completed Sept 11 1907
 recorded Sept 11 1911
 John W. Cass & Surveyor Cass & Main

A

PLAT OF

SURVEY RECORD No. 142. Sec 10. T 145^N R 31^W 5^{PM}.

SCALE 4 INCHES = 1 MILE



Survey begun May 30th 1907
 Completed Aug 1st 1907
 Recorded Sept 11th 1911

John W. Owen, Co. Surveyor Cass Co. Minnesota

Field notes of the survey of Section No 10 Township No 145 N, Range No 31 W, 5th Principal meridian, as made by John W. Curo County Surveyor of Cass County Minnesota. I use a K and E transit and a 100 foot Chicago steel tape:

May 30th 1907 A. D. Stawley and John Matson Axmen and chainmen: at the corner to sections 9, 10, 15, 16, T. 145 N Rge 31 W being the SW corner of section 10 the notes call for a post and the following bearing trees: Jack pine 8, S 22° E 110 links Jack pine 7 S 40° 31' W 91 links Jack pine 5 N 50° W, 61 links Jack pine 8, N 75° E 88 links we find a 2 inch iron pine set correctly from the old trees for the true corner and the SW tree is still standing plainly marked and checks out fine with the iron corner.

In order to find the NW corner of section 10 I begin at the corner to sections 9, 10, 15, 16 T 145 Rge 31W and run North on 8° 10' variation At 2640 feet the old Government bearing trees on the west side of section 10 are gone At 5280 feet the corner to sections 3, 4, 9, 10, stands N 72° 8' W 21 feet At this point notes of the Government survey call for a post and the following bearing trees: Jack pine 7, S 66° E 23 links. Jack pine 8, N 75° E 37 links Jack pine 6, N 73° W 134 links Jack pine 8, S 82° W 16 links We find the stumps of the old Government bearing trees from which some one has set a wood stake correctly for the true corner and we establish new trees as follows Jack pine 5, S 41° 20' E 39.60 feet: Jack pine 5 S 63° 15' W 37.40 feet:

August 1st 1907. A. D. Stanley and I chaining and cutting brush: Going to the Meander corner on the West side of Cass Lake between sections 3 and 10 being Meander post No 11 we look for the corner At this point the old notes call for a post and the following bearing trees Bm Giliad 5 N 44° W 4 links B Giliad 4 S 14° E 8 links. WE find the NW Tree plainly marked from which we set the true Meander corner for which we drive a wood post 4x4x60 inches in size for the true corner Going to the corner of sections 3, 4, 9, and 10 set by me we run East following a new cut out roadway at 10° 31' variation at 153.05 feet set a hub at 1320 feet set hub: at 2233.90 feet set hub enter lake shore. Needle reads 10° 45' variation: Turn 90° angle to the right and run South 67.70 feet thence read needle at 9° 45' and run East 40.30 feet to the Meander corner just set, making total distance about 2274.20 feet or 16 feet short.

With transit at hub 2233.90 the meander corner stands S 30° 43' E 78.80 feet: at hub 153.05 I run S 30° 43' E 5.40 ft which fixes the true line between sections 3, and 10 then with transit at section corner I find that the angle between the N and W boundry of sec 10 is 91° 3'

From SW corner of sec 10 run East at 746.90 centre of manhole At 1320 feet iron monument: at 2640 true 1/4 corner sets 0.40 South and 0.10 East, Set from old Government bearing trees.

Recorded Sept 11 1911

John W. Curo
County Surveyor Cass Co Minn.

3478
20820
20820
229020

9, 10, 15, 16

1/4 9-10

3, 4, 9, 10

M.C. N. 11

3-10

3, 4, 9, 10

Field notes of the survey of section No 3 Township No 145 N Range No 31 W, 5th Principal Meridian, as made by John W. Curo County Surveyor of Cass County Minnesota I, use a K and E transit and a 100 foot Chicago steel tape: May 30th 1907 A. D. Stanley and John Matson axmen and chairmen: At the corner to sections 9, 10, 15, 16, T 145 N Rge 31 W, being the corner of section the notes call for a post and the following bearing trees: Jack pine 8', S 22° E 110 links: Jack pine 7, S 40° 30' W 91 links Jack pine 5 N 50° W 61 links Jack pine 8 N 75° E 88 links We find a 2 inch iron pipe set correctly from the old trees, for the true corner and the SW tree is still standing plainly marked and checks out fine with the iron corner.

In order to find the SW corner of section 3 I begin at the corner to sections 9, 10, 15, 16, T 145 N Rge 31 W and run North on 8° 10' variation: At 2640 feet the old Government bearing trees on the West side of section 10 are gone: At 5280 feet the corner to sections 3, 4, 9, 10, Stands N 72° 8' W 21 feet. At this point being the SW corner of section 3 the original notes of the Government survey call for a post and the following bearing trees: Jack pine 7, S 66° E 23 links Jack pine 8, N 75° E 37 links: Jack pine 6, N 73° W 134 links Jack pine 8, S 82° W, 16 links We find the stumps of the old Government bearing trees from which some one has set a wood stake correctly for the true corner, and we establish new trees as follows: Jack pine 5, S 41° 20' E 60 feet: Jack pine 5, S 63° 15' W 37.40 feet.

39. August 1st 1907 A. D. Stanley and I chaining and cutting brush: Going to Meander corner on the West side of Cass Lake between sections 3 and 10, being Meander post No 11 we look for the corner: At this point the old notes call for a post and the following bearing trees: Bm Giliad 5 M 44° W 4 links B. Giliad 4 S 14° E 8 links, We find the NW tree plainly marked from which we set the true meander corner for which we drive a wood post 4x4x60 inches in size for the true corner Going to the corner of sections 3, 4, 9, and 10 set by me we run East following new cut out roadway at 10° 30' variation: at 153.05 feet set a hub at 1320 feet set hub at 2233.90 feet set hub enter lake shore: Needle reads 10° 45' variation Turn 90° angle to the right and run South 67.70 feet thence read needle at 9° 45' and run East 40.30 feet to the Meander corner just set, making total distance about 2274.20 feet or 16 feet short.

With transit at hub 2233.90 the meander corner stands S 30° 43' E 78.80 feet at hub 153.05 I run S 30° 43' E 5.40 ft which fixes the true line between sections 3 and 10 then with transit at section corner I find that the angle between the N and W boundary of sec 10 is 91° 3' Recorded *Sept 11 1911*

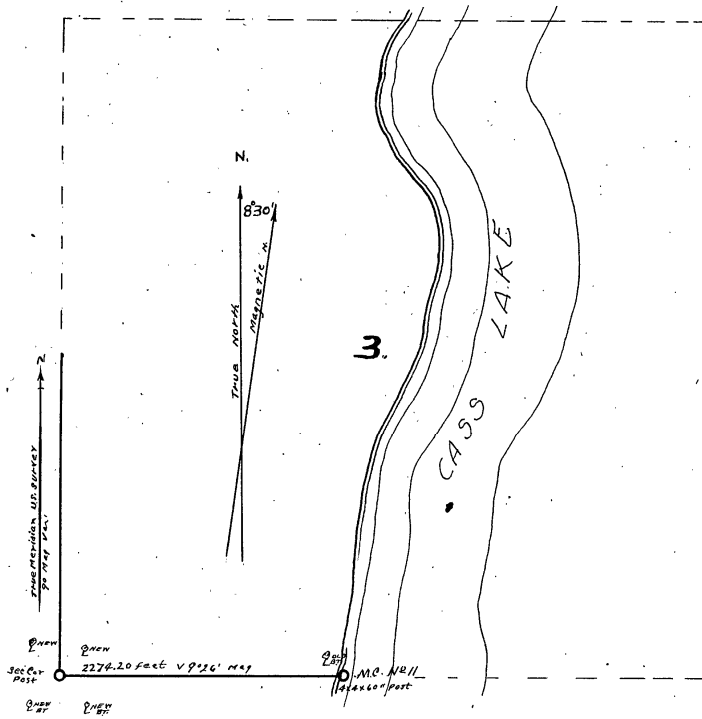
John W. Curo
County Surveyor Cass Co, Minn.—

A

PLAT OF

Sec 3. T145ⁿ R31^w 5 PM. SURVEY RECORD No. 143

Scale 4 inches = 1 mile



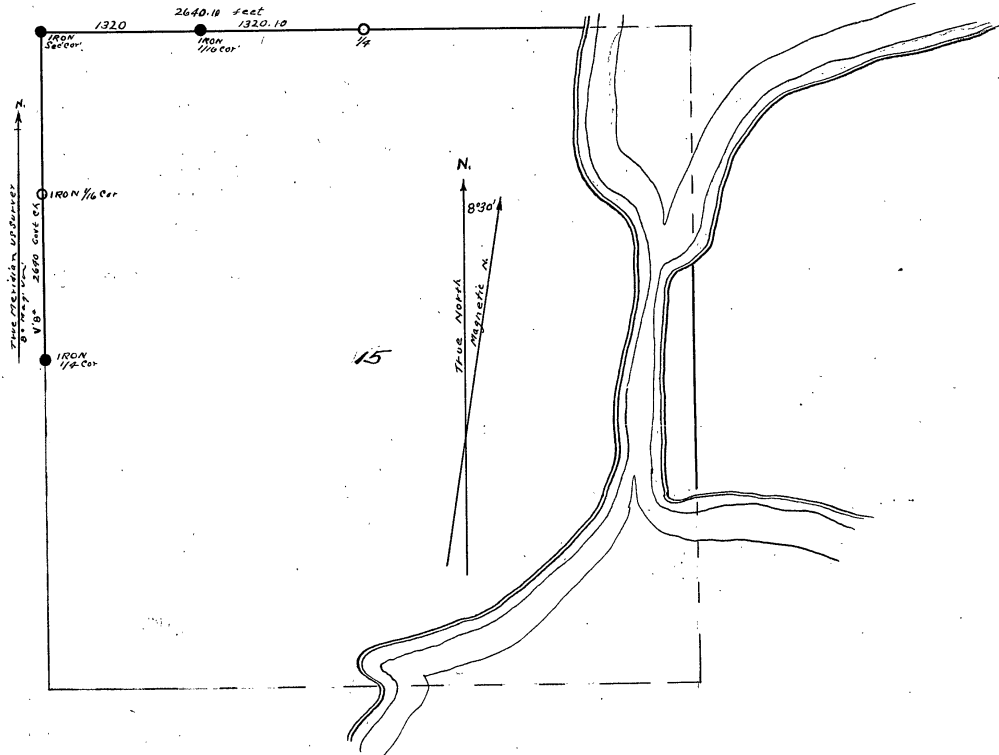
Survey commenced May 30 1907
 completed Aug 1 1907
 recorded July 11 1911
 John W. Curo. Co. Surveyors Cass Co. Minn

A

PLAT OF

SURVEY RECORD No. 144. Sec 15 T145^N R31^W S 2^{PM}

Scale 6" = 1 mile



<i>Survey begun</i>	<i>May 30th 1907</i>
<i>Completed</i>	<i>Aug 30 1907</i>
<i>recorded</i>	<i>Sept 11 1911</i>

John W. Curio, Co. Surveyor Cass Co. Minn

- PLAT -
Sec. Cont'd To Page This Acct
15 " 531

Field notes of the survey of section No 15 Township No 145 N, Range No 31 W, 5th Principal Meridian as made by John W. Curo County Surveyor of Cass County Minn. I use a K and E Engineers transit and a 100 foot Chicago steel tape: May 30th 1907 A.D. Stanley and John Matson axmen and chainmen: At the corner to sections 9, 10, 15, 1, T. 145 N. Rge 31 W, being the NW corner of sections 15 the notes call for apost and the following bearing trees Jack pine 8, S 22° E 110 links Jack pine 8, N 75° E 88 links We find a 2 inch iron pipe set correctly from the old trees for the true corner, and the SW tree is still standing plainly marked and checks out fine with the iron corner.

We run south following the section line on the west boundary of section 15 Twp 145 N Rge 31 W and measured it carefully to the $\frac{1}{4}$ corner on the west side, at which point the notes call for a post and the following bearing trees: Jack pine 10 N 60° E 12 links: Jack pine 12 S 76° W 30 lks. We find both of the old trees standing plainly marked from which some one has set an iron $\frac{1}{4}$ corner correctly from the bearing trees: it is iron pipe 2x36 inches in size set well into the ground. Going North to the $\frac{1}{16}$ corner we find a 2 inch iron monument set perfect for course and distance.

August 29th 1907 A. D. Stanley and I Begining at the iron monument at the Northeast ^{west} corner of section 15, T 145 N Rge 31 W. we run East through the centre of the street at 746. 90 centre of big iron man hole: at 1320 iron monument set by some surveyor for the $\frac{1}{16}$ corner At 2138.40 hub, in cut on hill.

Aug 30th 1907 continueing East at 2640 feet set hub: the $\frac{1}{4}$ corner on the North side of section 15 bears 0.40 feet South and 0.10 ft east, which shows that the iron monument set 1320 feet for the $\frac{1}{16}$ corner is 0.20 ft too far North and 0.05 feet too far West.

At the $\frac{1}{4}$ corner on the North side of section 15 the notes call for a post and the following bearing trees: Jack pine 12, N 41° W 25 links Jack pine 10 S 4° E 20 links we find the stump of both of the trees the Northwest one being plainly marked and the other one dimly marked, from which we set a wood stake for the true $\frac{1}{4}$ section corner. Going to Meander corner No 10 on the West side of Cass Lake on line between sections 10, and 15 we look for the post where the notes call for a post and the following bearing trees: Aspen 6 S 86° W 1360 links Aspen 6 N 89° W 1355 links I find the stump of both of the old trees but donot attempt to set the post as the meadow is wet.

Recorded Sept 11 1911

John W Curo
County Surveyor Cass Co. Minn.

-NOTES-
Sec. Cont'd to Page This Book
15 " " 539

9-10, 15, 16. IRON

15-16 $\frac{1}{4}$ IRON

15-16 $\frac{1}{16}$ IRON

10-15 $\frac{1}{4}$

10-15 - $\frac{1}{16}$ IRON

10-15 $\frac{1}{4}$

10-15 M.C. N^o 10.

A

Field notes of the survey of section No 23 Township No 142 N Range No 31 W, 5th Principal Meridian, as made by John W. Curo County surveyor of Cass County Minnesota, assisted by A. W. Moulster Deputy County Surveyor. We use a Heller and Brightly Engineers' transit and a 200 foot Chicago steel tape.

July 13th 1910 A. W. Moulster transitman Charlie Chatfield and Tom Kennedy axmen and chainmen We go to the corner to sections 13, 14, 23, 24, Twp 142 N. Rge 31 W, at which point the notes of the original Government survey call for a post and the following bearing trees: Yellow pine 18, N 83° E 37 links Yellow pine 14, N 59° W 25 links Yellow pine 18, S 65° W 31 links Yellow Pine 10S 55° E 51 links. We find the stumps of all the old bearing trees plainly marked from which Jas. D Middleton set an iron monument 4 years ago, for the true corner by proportionate measurement from the face of the stumps we re-chain it and find the iron monument correct for position after which we set the transit on the monument from which we take new bearing trees as follows. tack head in old stump bears N 83°14' E 24.60 feet Tack head in old stump 14, bears N 61° W 16.42 feet Tack in old stump 18, bears S 64° W 20.45 feet tack in old stump bears S 54° 52' E 38.10 feet Beginning at the true NE corner of section 23, we run West on 9° 10' variation: at 181.50 feet look for Meander corner No 9 on East shore of lake, and on the line between fractional sections 14, and 23, at which point the notes call for a post and the following bearing trees: Yellow pine 8, S 73° E 17 links Yellow pine 10, N 52° E 19 links: We do not find the post or trees and go back to iron corner of section 13, 14, 23, 24, and run South on 9° 10' variation At 282.48 feet we look for Meander corner No 8, between fractional sections 23 and 24m at which point the notes call for a post and the following bearing trees Yellow pine 14; N 11° E 32 links Yellow pine 6, N 35° W 50 links: We do not find the post or bearing trees because the lake seem to have washed away the bank, and the trees may have been up rooted.

13, 14, 23, 24

23

M.C. No 9 Secs 14-23

M.C. No 8. Secs 23-24

Recorded Sept 11 1911

John W. Curo
County Surveyor Cass Co. Minn.

NOTES OF

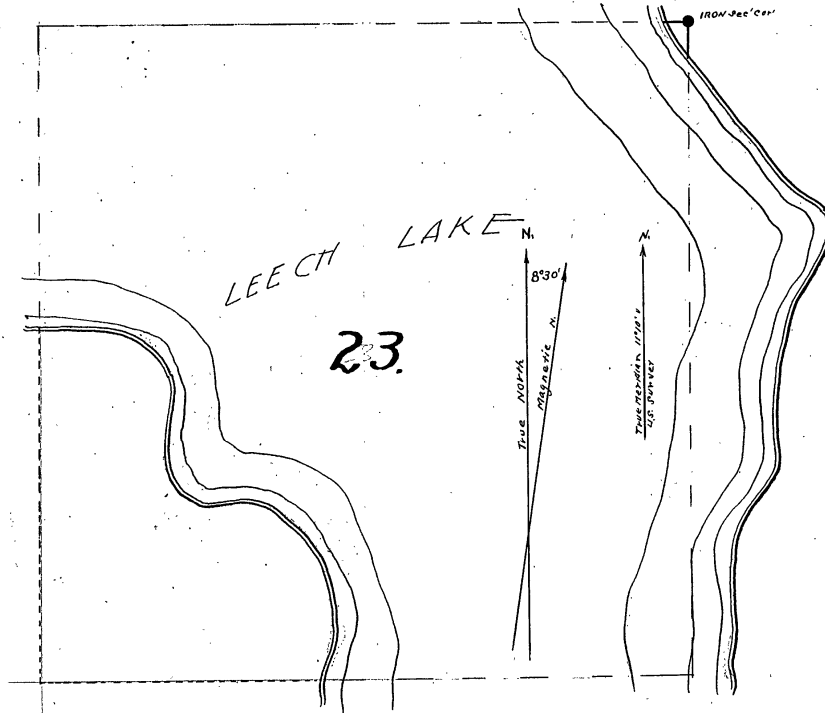
See Cont'd on Page of this Book
23 " " 389 " " "

A

PLAT OF

Sec 23 T142^N R31^W 5 P.M. SURVEY RECORD No. 145.

SCALE 4" = 1 MILE



Surveyed July 13 1910
 " Recorded Sept 11 1911
 John W. Cass, C. Surveyor Cass P. Miner

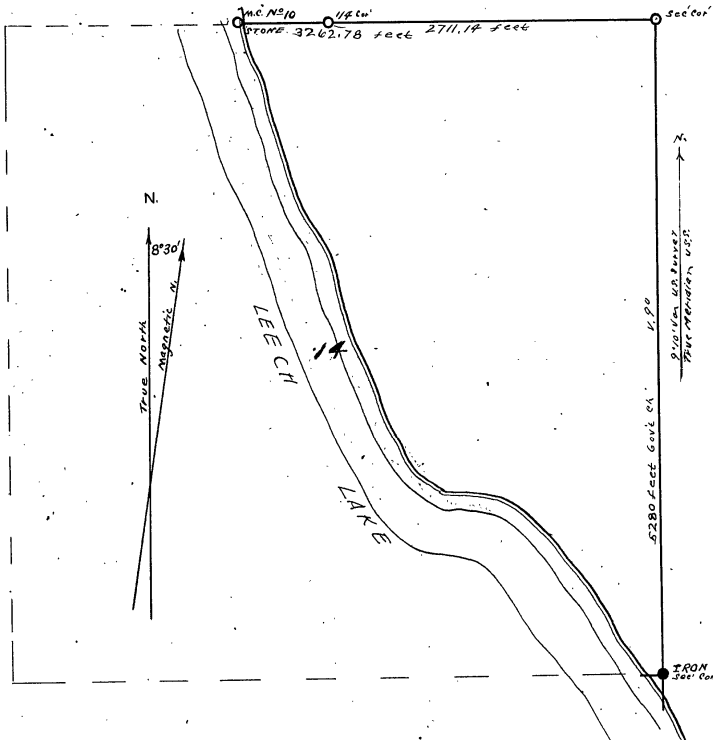
PLAT OF
 See Cont'd on Page of This Book
 25 " 368 " " "

A

PLAT OF

SURVEY RECORD No. 146. Sec 14 T142^N R31^W 5^{PM}

Scale 6" = 1 MILE



Survey commenced	July 13	1910
Completed	Aug 1	1910
Recorded	Sept 11	1911

John W. Carr, C. Surveyors, Cass Co. Minn.

A

Survey record No 146 Sec No 14 T 142, N R 31 W 5th P. M.

Field notes of the survey of section No 14 Township No 142 N Range No 31 W. 5th Principal, Meridian, as made by John W. Curo, County Surveyor of Cass County Minnesota, assisted by A. W. Moulster, Deputy County Surveyor. We use a Heller and Brightly Engineers' transit and a 200 foot Chicago steel tape,

13. 14. 23. 24.

July 13th 1910 A. W. Moulster transitman: Charlie Chatfield and Tom Kennedy axmen and chainmen We go to the corner to sections 13, 14, 23, 24, Twp 142 N Rge 31 W, at which point the notes of the original government survey call for a post and the following bearing trees Yellow pine 18 N 83° E 37 links Yellow pine 14 N 59° W 25 links Yellow pine 18, S 65° W 31 links Yellow pine 10 S 55° E 51 links We find the stumps of all the old bearing trees plainly marked from which Jas D Middleton set an iron monument 4 years ago, for the true corner by proportionate measurement from the face of the stumps: we re-chain it and find the iron monument correct for position. after which we set the transit on the monument from which we take new bearings as follows: tack head in stump bears N 83° 14' E 24.60 feet tack head in old stump 14 bears N 61° W 16.42 feet: Tack in old stump 18, bears S 64° W 20.45 feet tack in old stump bears S 54° 52' E 38.10 feet: Beginning at the true SE corner of section 14 we run West on 9° 10' variation: at 181.50 feet look for Meander corner No 9, on East shore of Lake, and on the line between fractional sections 14, and 23, at which point the notes call for a post and the following bearing trees: Yellow pine 8, S 73° E 17 links: Yellow pine 10, N 52° E 19 links- We do not find the post or trees. the lake seems to have washed away the bank, and the trees may have been uprooted.

M.C. No 9
14-23

13. 14. 23. 24.

1/4 13-14

11. 12. 13. 14

Beginning at the corner to sections 13, 14, 23, 24, run North at 9° variation, chaining roughly: at 2640 feet set stake for temporary 1/4 corner between sections 13, and 14, at which point we look for 1/4 corner. find nothing and continue North at 5300 feet rough chain we find the corner to sections 11, 12, 13, 14, at which point the notes call for a post and the following bearing trees: Birch 3, N 19° E 41 links poplar 7 N 51° W 49 links. Red Oak 8 S 83° W 66 links White pine 18 S 51 1/2° E 75 links We find all of the old trees but the white pine is down: set a post for the true corner. thence on 9° variation at 250 ft wagon road bears N & S: at 1395.20 hub: at 2086.30 off set 1.50 feet N to set around big Norway tree.

July 14th 1911 Bob Ross: C Chatfield, chainmen A W Moulster, transitman, at 2640 hub at 3959.20 hub.

August 1st 1910 we find the bearing trees to Meander corner No 10 on the North side of section 14 from which we set a stone monument 5x6x24 inches in size with a large pile of rock around it. With transit on hub 3159.20 we continue West and at 3250.20 set hub at waters edge. true corner stands S 5° 21' W 135.20 feet, subtracting the 1.60 feet offset North true distance from hub 2250.20 to M.C. No 10, is 133.70 feet Correcting East hub 2640 goes West 60.66 feet, then S 5° 21' W 112.34 feet where we set post for true 1/4 corner from which N. P., Stump 16, N 74° 10' E 15.20 feet W pine 20 bears S 32° 55' W, 51.45 feet.

Recorded Sept 11 1911

John W. Curo
County Surveyor Cass Co Minn.

M.C. No 10

bet' Secs 11-14

Field notes of the survey of section no 24 Township no 142 N. Range No 31 W, 5th Principal Meridian, as made by John W. Curo County surveyor of Cass County Minnesota assisted by A. W. Moulster Deputy County Surveyor. We use a Heller and Brightly Engineers transit and a 200 foot Chicago steel tape.

July 1910 A. W. Moulster transitmen Charlie Chatfield and Tom Kennedy axmen and chainmen: we go to the corner to sections 13, 14, 23, 24, Twp 142 N Rge 31 W at which point the notes of the original Government survey call for a post and the following bearing trees: Yellow pine 18, N 83° E 37 links Yellow pine 14, N 59° W 25 links Yellow pine 18, S 65° W 31 links Yellow pine 10 S 55° E 51 links. We find the stumps of all the old bearing trees plainly marked from which Jas D. Middleton set an iron monument 4 years ago for the true corner by proportionate measurements from the face of the stumps; we re-chain it and find the iron monument correct for position, after which we set the transit on the monument, after which we take new bearings as follows: tack head in old stump bears N 83° 14' E 24.60 feet: tack in old stump 14, bears N 61° W 16.42 feet: tack in old stump 18, bears S 64° W 20.45 feet: tack in old stump bears S 54° 52' E 38.10 feet : Begining at the true NW corner of section 24 we run West on 9° 10' variation at 181.50 feet look for Meander corner No 9 on East shore of Lake, and on the line between fractional sections 14, and 23, at which point the notes call for a post and the following bearing trees: Yellow pine 8, S E 17 Links: Yellow pine 10, N 52° E 19 links: We do not find the post or trees and go back to the iron corner of sections 13, 14, 23, 24, and run South on 9° 10' variation: At 282.48 feet we look for Meander corner No 8 between fractional sections 23 and 24 at which point the notes call for a post and the following bearing trees: Yellow pine 14, N 11° E 32 links: Yellow pine 6, N 35° W 50 links. We do not find the post or bearing trees because the lake seem to have washed away the bank, and the trees may have been up rooted.

August 17th 1910. Begining at the iron corner to sections 13, 14, 23, 24, T 142 Rge 31 W, I run East on 9° 10' variation and look for Meander corner No 5, on the west side of the lake between fractional sections 13 and 24, at which point the notes call for a post and the following bearing trees: Sugar 15, S 52° W 15 links. W Oak 20, N 82° W 55 links. I find no trace of either the post or trees and bank seems to have been washed away since original survey.

Recorded *Sept 11* 1911

John W. Curo
County Surveyor Cass Co Minn.

13, 14, 23, 24

MCN=9

14-28

MCN=8

23-24

13, 14, 23, 24

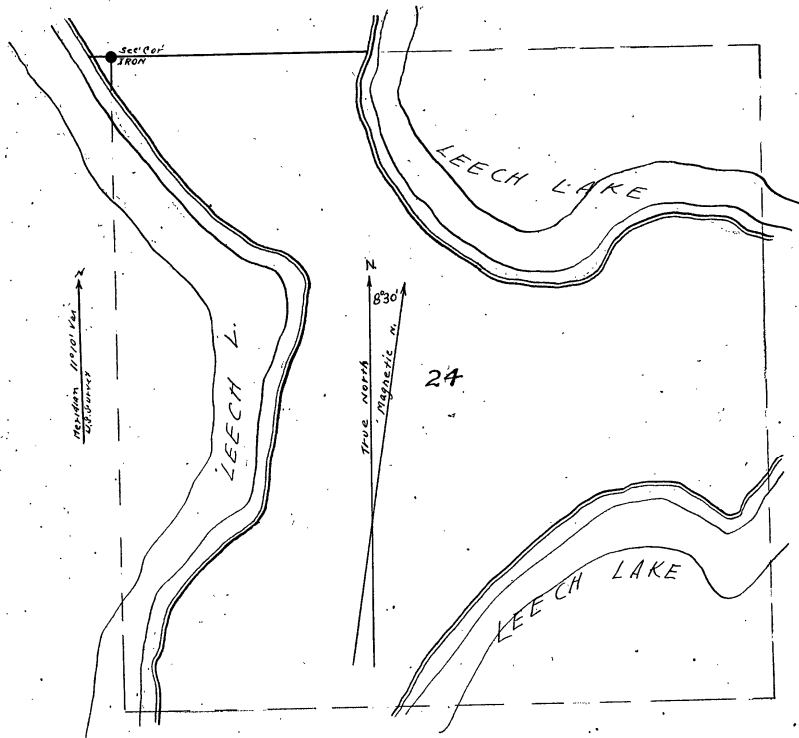
MCN=5

A

PLAT OF

Sec 24. T142^N R31^W 5^{PM} SURVEY RECORD NO. 147.

scale 6 inches = 1 mile



<u>Survey commenced</u>	<u>July 13 1910</u>
<u>completed</u>	<u>July 17 1910</u>
<u>recorded</u>	<u>Sept 11 1911</u>

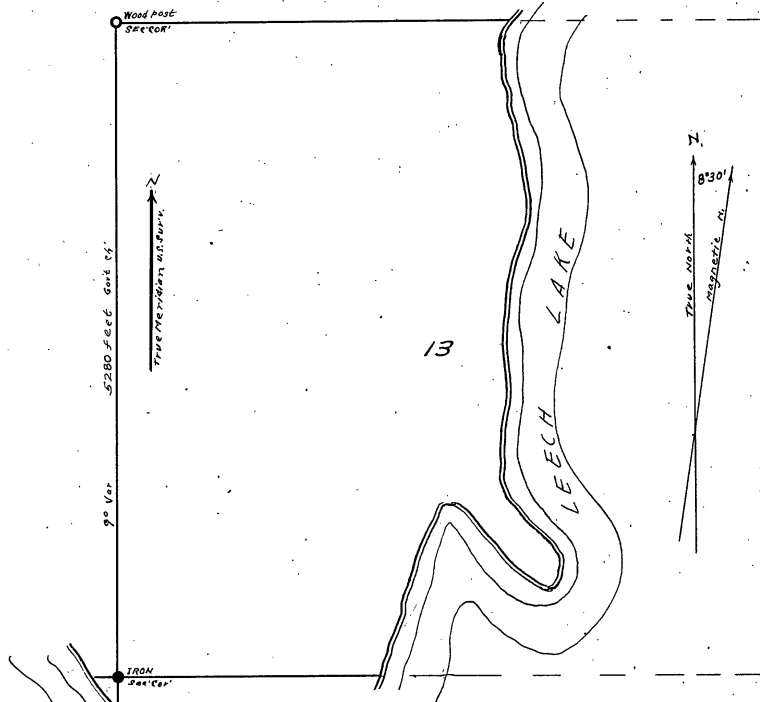
John W. Cass Co. Surveyors, Cass Co. Minnesota

A

PLAT OF

SURVEY RECORD No. 148. Sec 13. T. 142^N R. 31^W 5^{PM}

Scale 4" = 1 mile



Survey commenced July 13 1910
 " Completed " " " "
 recorded Sept 11 1911

John W. Cass, Co. Surveyors Cass Co. Minnesota

A

Field notes of the survey of section no 13 Township No 142 N Range No 31 W 5th Principal Meridian, as made by John W. Cass County Surveyor of Cass County Minnesota assisted by A. W. Moulster. Deputy County Surveyor, We use a Heller and Brightly Engineers transit and a 200 foot Chicago steel tape.

13.14.23.24

July 1910 A. W. Moulster transit man Charlie Chatfield and Tom Kennedy axmen and chainmen we go to the corner to sections 13, 14, 23, 24, Twp 142 N Rge 31 W, at which point the notes of the original Government survey call for a post and the following bearing trees Yellow pine 18 N 83° E 37 links Yellow pine 14, N 59° W 25 links Yellow pine 18, S 65° W 31 links Yellow pine 10 S 55° E 51 links We find the stumps of all the old bearing trees plainly marked from which Jas D Middleton set an iron monument 4 years ago, for the true corner by proportionate measurement from the face of the stumps: we re-chain it and find the iron monument correct for position, after which we set the transit on the monument from which we take new bearings as follows: tack head in old stump bears N 83° 14' E 24.60 feet: tack in old stump 14, bears N 61° W 16.42 feet: tack in old stump 18, bears S 64° W 20.45 feet: tack in old stump bears S 54° 52' E 38.10 feet Beginning at the true SW corner of section 13 we run West on 9° 10' variation: at 181.50 feet look for Meander corner No 9 on East shore of lake, and on the fractional line between sections 14 and 23 at which point the notes call for a post and the following bearing trees: Yellow pine 8, S 73° E 17 links: Yellow pine 10, N 52° E 19 links We do not find the post or trees and go back to the iron corner of sections 13, 14, 23, 24, and run South on 9° 10' variation: At 282.48 feet we look for meander corner No 8, between fractional sections 23 and 24, at which point the notes call for a post and the following bearing trees: Yellow pine 14, N 11° E 32 links. Yellow pine 6, N 35° W 50 links WE do not find the post or bearing trees because the lake seem to have washed away the bank and the trees may have been up rooted.

M.C. No 9

M.C. No 8

13.14.23.24

Beginning at the corner to sections 13, 14, 23, 24, run North on 9° Variation, chaining roughly at 200 feet set stake at 400 feet set stake at 600 feet set stake at 800 feet set stake at 1000 feet set stake at 1200 feet set stake at 1400 set stake at 1600 set stake at 1800 set stake at 2000 set stake at 2200 feet set stake: at 2400 feet set stake: at 2600 feet set stake: at 2640 set stake for temporary 1/4 corner between sections 13, and 14 at which point the notes call for a post and the following bearing trees: We find nothing and continue North: At 5300 feet rough chain we find corner to sections 11, 12, 13, 41, at which point the notes call for a post and the following bearing trees Birch 3 N 19° E 41 links Poplar 7, N 51° W 49 links Red Oak 8 S 83° W 66 links White pine 18, S 51 1/2° E 75 links we find all of the old trees but the White pine is down: set a post for true corner.

1/4 Cor 13-14

11.12.13.14.

Recorded Sept 11 1911

John W. Cass
County Surveyor Cass Co. Minn.

Field notes of the survey of section 12 Township No 142 Range No 31 W, 5th Principal Meridian, as made by John W. Curo County surveyor of Cass County Minnesota, assisted by A W Moulster deputy County Surveyor of Cass County Minnesota, We use a Heller & Brightly Engineers' transit and a 200 foot Chicago steel tape.

July 13th, 1910 A. W. Moulster transitman Charlie Chatfield and Tom Kennedy axmen and chainmen. At the corner to sections 11, 12, 13, 14, T 142 N R 31 W, being the SW corner to section 12 we look for the stake, wher Government field notes call for a post and the following bearing trees: Birch 3 N 19° E 41 links Poplar 7 N 51° W 49 links Red Oak 8 S 83° W 66 links White pine 18 S 51½ E 75 links WE find all of the trees from which we set a wood stake for the true corner. the Southeast white pine bearing tree is down.

11.12.13.14.

July 14th 1910 Bob Ross, C. Chatfield A. W. Moulster: begining at the corner to sections 11, 12, 13, & 14 T 142 N Rge 31 W run North on 9° variation at 200 feet set pin at 400 feet set pin at 445.50 feet set a hub at 600 feet set pin: at 800 feet set pin: at 911.15 set hub at 1000 set pin: at 1200 ft set pin: at 1208.10 set hub at 1400 ft set pin: at 1600 ft set pin at 1645.90 ft set hub. and quit for night.

11.12.13.14.

July 16th 1910 C. Chatfield Bob Ross, and A W. Moulster, continue North at 1800 set pin at 2000 set pin at 2181.30 set hub on account of big pine effect 1 foot east at hub 2181.30 and at hub 1645.90 and continue North at 2200 set pin: at 2400 set pin: at 2600 set pin: at 2623.40 old ¼ stake sets West 1.30 feet: Correct up the line which is 1 foot East of starting course and 1.30 feet East of the true ¼ corner-

¼ Cor. 11-12

July 19th 1910 Bob Ross: C Chatfield A. W Moulster and Ben King continue line North from ¼ corner between sectins 11 and 12 at 500.30 tack in log: at 10585.10 hub at 1635 feet set hub at 2049.30 feet set hub at 2405.70 feet set hub at 2640 feet there is no trace of the corner to sections 1, 2, 11, 12, at which point the notes call for a post and the following bearing trees: White pine 30 N 72A E 194 links Yellow pine 30 N 22½ W 242 links Yellow pine 30 S 66½ E 70 links We hunt for a radius of 300 feet but find nothing.

¼ Cor. 11-12

1-2-11-12

Recorded Sept 11 1911

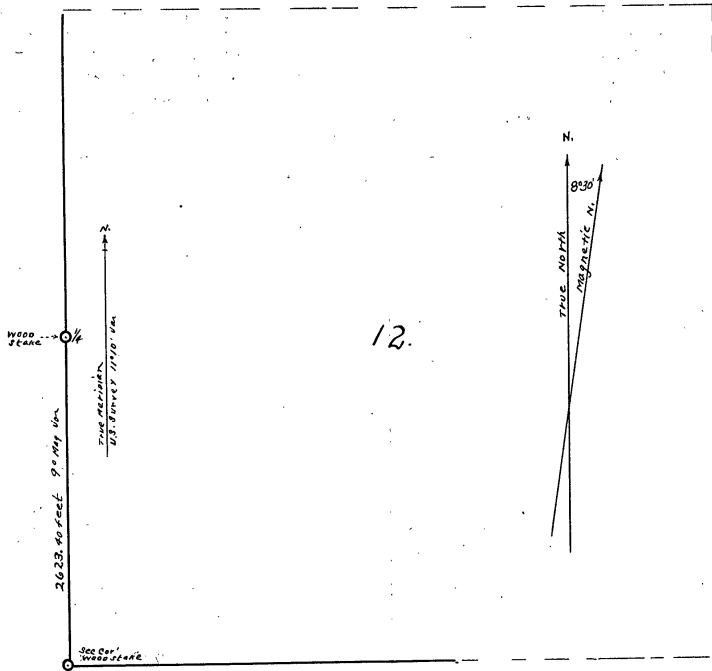
John W. Curo
County Surveyor Cass Co Minn.

A

PLAT OF

Sec 12 T142^N R31^W 5 P.M. SURVEY RECORD No. 149.

Scale 6 inches = 1 mile



Survey commenced July 13 1910
 " Completed " 19 1910
 " Recorded Sept 11 1911
 John W. Cass, Co. Surveyors Cass Co. Minnesota

A

PLAT OF

SURVEY RECORD No 150

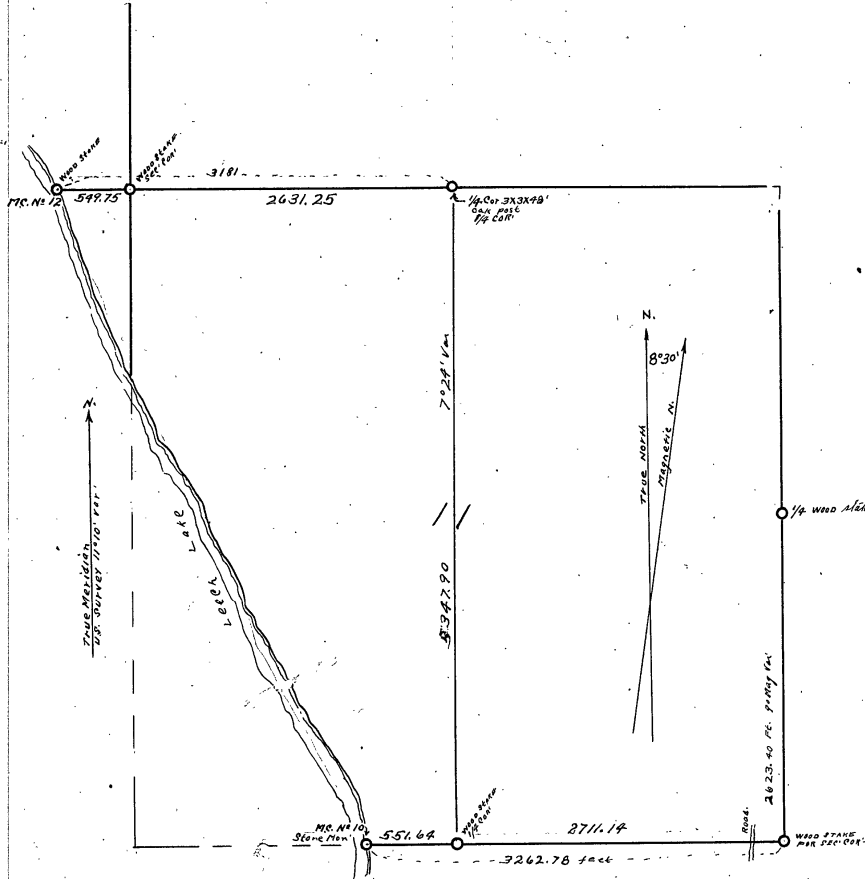
Sec 11

T 142^N

R 31^W

5 P.M.

Scale 4" = 1 mile



Survey commenced July 13 1910
 completed July 1
 recorded Sept 11 1911

John W. Curo, Co. Surveyors Cass Co. Minnesota

A

Survey record No 150 Sec No 11 T. No 142 N R 31 W, 5th P. M.

Field notes of the survey of section no 11 Township No 142N Range No 31 W 5th Principal Meridian, as made by John W. Curo County surveyor of Cass County Minnesota; assisted by A.W. Moulster, deputy County Surveyor of Cass County Minnesota; We use a Heller & Bright's Engineers transit and a 200 foot Chicago steel tape.

July 13th 1910 A. W. Moulster, transitman: Charlie Chatfield and Tom Kennedy, axmen and chainmen: At the corner to sections 11, 12, 13, 14, T 142 N Rge 31 W being the SE corner to section 11 we look for the stake where Government notes call for a post and the following bearing trees: Birch. 3 N 19° E 41 links: Poplar 7 N 51° W 49 links: Red Oak S S 83° W 66 links: White pine 18, S 51.½° E, 75 links: we find all of the trees, from which we set a wood stake for the true corner. the Southeast white pine bearing tree is down.

Run West on 9° variation: at 250 road bears N & S at 2086.30 set hub and offset 1.½ feet North to get around a large pine and continue West.

July 14th 1910, Bob Ross, C Chatfield axmen and chainmen: A.W. Moulster transitman: Continue west: at 3159.20 feet set hub:

July 15th 1910. Bob Ross C Chatfield. A-W Moulster: Begining at corner to 11, 12, 13, 14, run North on 9° variation: at 1645.90 feet set hub at 2181.30 set hub and offset 1 foot East on account of big pine and continue North: at 2623.40 the old ¼ corner post sets West 1.30 feet.

July 19th, 1910 continue North from the ¼ corner: at 2640 feet there is no trace of the corner to sections 1, 2, 11, 12, and we hunt for a radius of 300 feet. July 20 run a line West through centre of sec 11 at 4706 enter lake

July 22nd 1910 Ross, Chatfield, King Moulster: setting transit on a small hub set 1. foot South and 15. feet East of Meander Corner No 12m run East on 9° variation measureing from true Meander corner at 15, hub at 35. centre of 30' Norway which sets on the true section line at 480.90 hub on hill 687.40 hub on hill at 1886.90 hub on hill.

July 26 th 1910 continue at 3181.00 the ¼ corner between sections 2 & 11 sets South 38.70 feet at which point we set an oak post 3x3x48 inches for the ¼ corner by flat measurement from face of both old trees after which they stand as follows: At 9° var Yellow pine 20N 10° W 57.42 feet Yellow pine 27 S 63° 35' W 38.28 feet

July 27th 1911 run South on 9° variation at 5235.90 hub on E & W random line at 5347.90 true ¼ sets West 149.64.

July 30th 1910 Going to hub No 3181.00 near ¼ on N side of section 11 continue random line East at 5693.80 hub at 5772-15 cross N & S random line a point 2645.60 ft N of the ¼ corner.

August 1st 1910 we set Meander corner No 10 from Government bearing trees and going East to hub 2640 we correct up the line and set the true ¼ on the South side of Section 11, Norway pine 16, N 74° 10' E 15.20 feet: White pine 20 S 32° 55' W 51.45 feet. could find no trace of the old ¼ corner or trees. It is 2711.14 feet to Southeast corner of section 11, and the length of the whole south line is 3262.78 feet We find old Government bearing trees at corner to sections 2, 3, 10, 11, and set with new bearing trees as follows Oak 6 N 20° E 13 feet A t 549.75 feet E of M C no 12 sec Corner sets South 31.90.

Recorded Sept 11 1911

John W Curo
County Surveyor Cass Co, Minn.

11-12-13-14

11-12-13-14

1/4 Bk 11-12

1-2-11-12

Cor. Sec 11

M.C. No 12

1/4 2-11

1/4 Cor. Sec 11-14

M.C. No 10

1/4 11-14

2-3-10-11

A

Survey record No 151. Sec No 2 T No 142 N R 31 W, 5th P. M.

Field notes of the survey of section No 2 Township No 142 N Range No 31 W 5th Principal Meridian as made by John W Curo County surveyor of Cass County Minnesota Assisted by A. W. Moulster deputy County Surveyor of Cass County Minnesota, We use a Heller & Brightly Engineers transit and a 200 foot Chicago steel tape.

July 12th, 1910 A. W. Moulster: Charlie Chatfield and Tom Kennedy axmen and chainmen look for the corner to sections 2, 3, 10, 11, Twp 142N. Rge 31W, and as it appears to be gone, go to Meander corner No 12, being on the East side of a part of Leech Lake and on the section line between fractional sections 3 and 10 at which point the Government notes call for a post and the following bearing trees: Yellow pine 18 N 64° E 43 links Birch S, S 11.1° W 23 links the birch is gone but the Yellow pine is still green and plainly marked but is turned out by the roots: and has roaled down the steep bank to the lake: We find the exact spot where the tree stood, by the break in the sod and by small roots still left in the ground and run East on 9° variation at 35 feet we intersect a large tree which stands on the section line: going around the tree we run rough line East 570 feet but can find no trace of the corner to sections 2, 3, 10, 11.

July 22nd A. W. Moulster transitman Bob Ross and C Chatfield chainmen and axmen: begining at a small hub set 1 foot South and 15 feet East of Meander No 12 run East on 9° variation measuring from the true corner at 15 feet small hub at 35 feet South side of 30 inch Norway pine tree: At 480.90 feet set hub on hill at 687.40 set hub on hill: at 1208.15 fork in log: at 1886.90 set hub on hill: ~~at 1886.90~~

July 26th 1910: A W Moulster: Ben King C Chatfield Bob Ross: continue east at 2146.40 hub at 2796.80 hub on pine ridge: at 3181.00 the 1/4 corner between sections 2 and 11 bears South 38.70 feet: At this point the notes call for a post and the following bearing trees: Norway pine 20 N 20 E 87 links Yellow pine 27 S 52° W 58 links: we find both old bearing trees from which we set a new oak stake 3x3x48 inches for the true 1/4 corner by flat measurement from the face of the trees, after which the trees stand as follows: Yellow pine stump 20, N 10° W 57.42 feet: Yellow pine stump 27, S 63° 35' W 38.28 feet, at 9° variation.

July 29th and 30th 1911 continue our random line East: at 5772.15 feet we intersect a new transit line at a point 2645.60 feet North of the 1/4 corner between sections 11 and 12, We cannot find the post or bearing trees at the corner to sections 1, 2, 11, 12,

August 1st 1910 correcing this line back we find the corner to sections 2, 3, 10, 11. where Government notes call for: White pine 30, N 9° E 56 links Yellow pine 25 S 9° W 28 links Yellow pine 20 S 73° E 58 links: We find the old bearing trees from which we set a stake for the true corner with a new bearing tree as follows: Oak 6, N 20° E 13 feet.

At a point 549.75 feet East of Meander corner No 12, the corner to sections 2, 3, 10, 2nd 11 bars South 31.90 feet.

Recorded, Sept 11 1911.

John W Curo
County Surveyor Cass Co Minn.

2-3-10-11

170 N^o 12

Secs 3-10

2, 3, 10, 11.

170 N^o 12.

1/4 2-11

1-2-11-12

2-3-10-11

170 N^o 12.

A

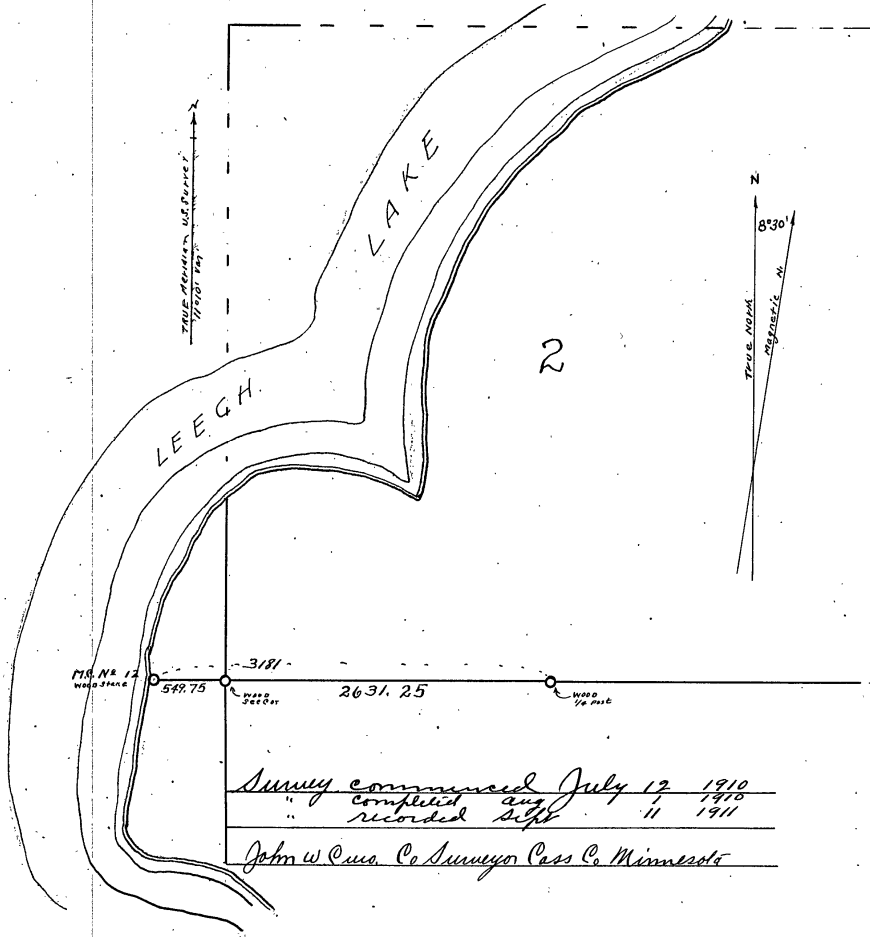
PLAT OF

Sec 2, T142N R31W

5 PM

SURVEY RECORD No. 151

Scale 6" = 1 mile

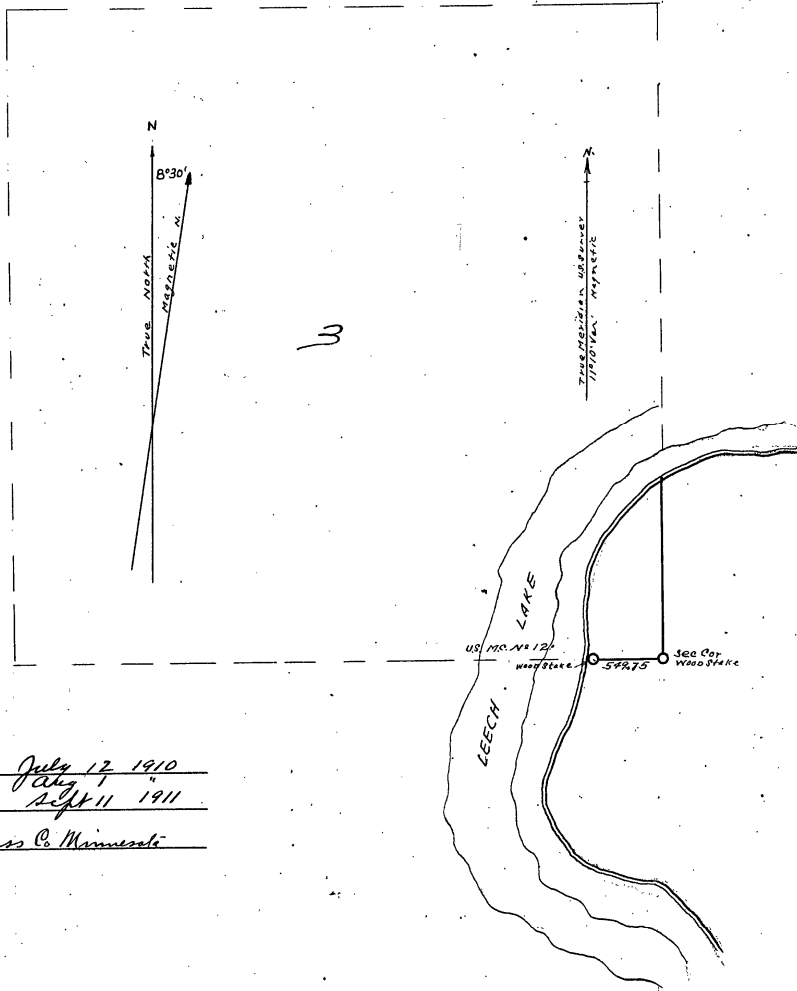


A

PLAT OF

SURVEY RECORD No. 152. Sec 3 T 142^N R 31^W 5^{EM}

Scale 6" = 1 mile



Survey commenced July 12, 1910
Completed Aug 1, 1910
recorded Sept 11, 1911

John W. Curo & Surveyors Pass Co. Minnesota

A

Survey record No 152 Sec No 3 T No 142 N R 31 W, 5th P. M.

Field notes of the survey of section No 3 Township No 142 N Range 31 W, 5th Principal Meridian, as made by John W Curo County Surveyor of Cass County Minnesota, assisted by W. W. Moulster, deputy County Surveyor of Cass County Minnesota, We use a Keller and Brightly Engineers transit and a 200 foot Chicago steel tape.

July 12th 1910 A. W. Moulster transitman Charlie Chatfield and Tom Kennedy axmen and Chainmen: look for the corner to sections 2, 3, 10, 11, Twp. 142 N Rge 31 W and as it appears to be gone, go to Leech lake and on the section line between fractional sections 3 and 10 at which point the Government notes call for a post and the following bearing trees: Yellow pine 18, N 64° E 43 link Birch 8, S 11.2° W 23 links the birch is gone but the yellow pine is still green and plainly marked, but is turned out by the roots: and has rolled down the steep bank to the lake: we find the exact spot where the tree stood, by the break in the sod and by small roots still left in the ground, and run East on 9° variation: at 35 feet we intersect a large tree which stands on the section line: going around the tree we run a rough line East 570 feet but can find no trace of the corner to sections 2, 3, 10, 11.

July 22nd A. W. Moulster transitman Bob Ross and C Chatfield chainmen and axmen: begining at a small hub set 1 foot South and 15. feet East of Meander No 12 run East on 9° variation: measuring from the true corner: at 15. feet small hub at 35 feet South side of 30 inch Norway pine tree at 480.90 feet set hub on hill at 686.40 set hub on hill at 1208.15 fork in log at 1886 set hub on hill:

July 26th 1910 A. W. Moulster Ben King, C Chatfield Bob Ross continue East at 2146. 40 hub at 2796.80 hub on pin ridge: at 3181.00 the $\frac{1}{4}$ corner between sections 2 and 11 bears South 38.70 feet At this point the notes call for a post and the following bearing trees: Norway pine 20 N 20 E 87 links Yellow pine 27 S 52° W 58 links: we find both old bearing trees from which we set a new Oak stake 3x3x48 inches for the $\frac{1}{4}$ corner by flat measurement from the face of the trees, after which the trees stand as follows: Yellow pine stump 20N 10° W 57.42 feet Yellow pine stump 27 S 63° 35' W 38.28 feet at 9° variation.

August 1st 1910. correcting this line back we find the corner to sections 2, 3 10, 11, where Government notes call for White pine 30 N 9° E 56 links Yellow pine 25 S 9° W 28 links Yellow pine 20 S 73° E 58 links we find the old bearing trees from which we set a stake for the true corner with a new bearing tree as follows: Oak 6 N 20° E 13 feet:

At a point 549.75 feet East of Meander. corner No 12 the Corner to sections 2, 3, 10, 11, bears South 31.90 Feet.

Recorded Sept 11 1911

John W Curo
County Surveyor Cass Co. Minn.

2-3-10-11
M.C. No 12
3-10

2-3-10-11

1/4 2-11

2-3-10-11

M.C. No 12

2-3-10-11

A

Field notes of the survey of section No 10 Township No 142 N Range No 31 W 5th Principal Meridian, as made by John W. Cass County Surveyor of Cass County Minnesota assisted by A. W. Moulster deputy county Surveyor of Cass County Minnesota We use a Heller & Brightly transit and a 200 foot Chicago steel tape.

July 12th 1910 A. W. Moulster transitman Charlie Chatfield and Tom Kennedy axmen and chainmen look for the corner to sections 2, 3, 10, 11. Twp 142 n Rge 31 W, and as it appears to be gone go to the Meander corner No 12 being on the East side of a part of Leech lake and on the section line between fractional sections 3 and 10 at which point the Government notes call for a post and the following bearing trees: Yellow pine 18, N 64° E 43 links Birch S S 11½° W 23 links the birch is gone but the yellow pine is still green and plainly marked, but is turned out by the roots: and has rolled down the steep bank to the lake: we find the exact spot where the tree stood, by the break in the sod and by small roots still left in the ground, and run East on 9° variation at 35 feet we intersect a large tree which stands on the section line Going around the tree we run a rough line East 570 feet but can find no trace of the corner to sections 2, 3, 10, 11.

July 22nd A. W. Moulster transitman Bob Ross and C. Chatfield chainmen and axmen. being at a small hub set 1 foot South and 15 feet East of Meander No 12 run East on 9° variation measuring from the true corner at 15 feet small hub at 35 feet South side of 30 inch Norway pine tree at 480.00 feet set hub on hill at 687.40 set hub on hill at 1208.15 fork in log at 1886.90 set hub on hill:

July 26th 1910: A. W. Moulster Ben King: C. Chatfield: Bob Ross: continue East. at 2146.40 hub at 2796.80 hub on pine ridge: at 3181.00 the ¼ corner between sections 2 and 11 bears south 38.70 feet At this point the notes call for a post and the following bearing trees Norway pine 20 N 20° E 87 links Yellow pine 27 S 52° W 58 links: we find both old bearing trees from which we set a new Oak stake 3x3x48 inches for the true ¼ corner by flat measurement from the face of the trees after which the trees stand as follows: Yellow pine stump 20 N 10° W 57.42 feet Yellow pine stump 27 S 63° 35' W 38.28 feet at 9° variation.

August 1st 1910: correcting this line back we find the corner to sections 2, 3, 10, 11 where Government notes call for White pine 30 N 9° E 56 links Yellow pine 25 S 9° W 28 links Yellow pine 20 S 73° E 58 links We find the old bearing trees from which we set a stake for the true corner with a new bearing tree as follows: Oak 6 N 20° E 13 feet.

At a point 549.75 feet East of Meander corner No 12, the corner to sections 2, 3, 10, and 11 bears South 31.90 feet.

Recorded Sept 11 1911

John W. Cass
County Surveyor Cass Co Minn.

2-3-10-11
MC N^o 12
3-10

2-3-10-11

1/4 2-11

2-3-10-11

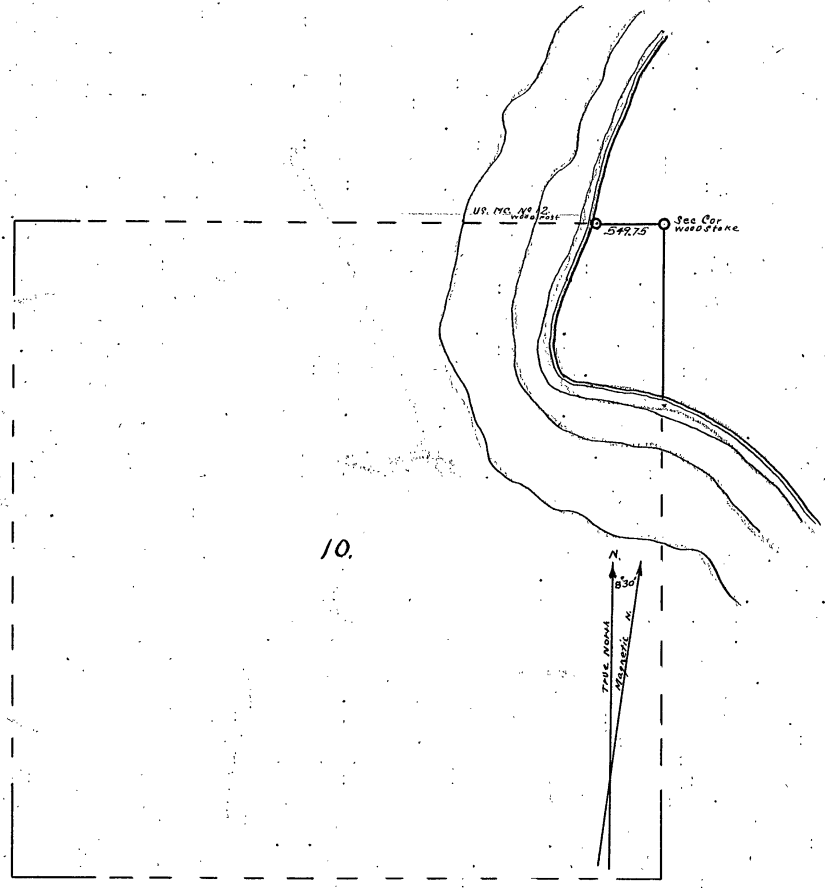
MC N^o 12

2-3-10-11

PLAT OF

Sec 10. T 142^N R 31^W 5 PM SURVEY RECORD No. 153

Scale 4" = 1 mile



Survey commenced July 17 1910
completed Aug 7 1910
revised Sept 11 1911

John W. Cass, Co Surveyor, Cass Co Minn

Principal Meridian

Sections 1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 16, 22, 23, 24, T 140- 27

Field notes of the survey of a part of Township No 140 N, Range 27, W, 5th P. M. as made by John W. Curo County surveyor of Cass County Minn Assisted by A. Moulster deputy County Surveyor of Cass County Minn: The instruments are a Keuffel & Esser Engineers' transit and a 300. foot Chicago steel tape: A Heller & Brightly engineers' transit and a 200 foot Chicago steel tape: A Gurley compass and a 100 foot Chicago steel tape. Survey begun Oct 4th 1906: Survey ended and iron monuments set Sept 25th 1911.

Oct 4th 1906 John W. Curo transitman: Lewis Williams axman: Geo Snell & Mark Snell chainmen: we use a 100 foot tape and a Gurley compass We begin at the corner to sections 10, 11, 14, 15, where the original notes of the Government survey call for a post and the following bearing trees: Ash 6, N 20° 20' E, 20 links distant: Ash 6, S 70° 15' E, 15 links: White pine 4, S 80° W, 20 links: Tamarack 12, N 40° W, 32 links We find the old government post which checks out perfect course and measurement with the old bearing trees which are down but plainly marked: We re-place the old post with a new one 4x4x36 inches in size, drove well into the ground: Run West on 7°35' variation 2640 feet but can find no trace of the 1/4 corner: continue West and at 5280 feet rough chain we find the corner to Sections 9, 10, 15, 16, at which point the old notes call for a post and the following bearing trees: Norway pine 6, N 25° 40' W 87 links: White pine 8, S 17° W, 31 links: Elm 10, N 50° E 100 links: White pine 28, S 78° 50' E, 123 links: We find the old trees plainly marked from which we set a 4x4x36 inch post for the true corner.

Oct 5th, 1906. Run North on 10° 10' variation: Compass survey: at 2643 feet rough chain intersect the old government post at 1/4 corner between Sections 9 & 10 where the old notes call for a post and the following bearing trees: Tamarac 7, N 48° 30' W, 6 links: Tamarac 6, N 41° 00' E. 30 links. We find both trees plainly marked and they stand perfect for course but the North-west one is a little too far away. Beginning at the 1/4 corner between Sections 9 & 10 we run North on 10° 10' variation and at 2640. feet we find the corner to sections 3, 4, 9, & 10 where the notes call for a post and: Norway pine 24, N 74° 50' W. 78 links: Norway pine 28, S 51° 20' W, 95 links: Norway pine 24, N 22 45' E, 34 links: Maple 6, S 15° 15' E, 65 links: We find the old bearing trees from which we set a 4x4x36 inch wood post well into the ground for the true corner and make a new bearing tree as follows: One white pine stump 6, S 1° E, 15.40 feet.

Oct 6th, 1906, Run East on 7° 27' variation: at 682 feet set hub on first hill: at 1324.29 feet set hub: at 1531 feet set hub: at 2648.58 set hub transit survey: all of the marks at the 1/4 corner between sections 3 & 10 are gone.

Oct 7th, 1906, continue East: at 3972.78 set hub: at 5297.16 set hub. true section corner stands S 83° 20' E, 38.40 feet.

At the corner to sections 2, 3, 10, 11, Gov't notes call for: White pine 10, N 31° E, 12 links White birch 8, S, 6° E, 20 links: Burr Oak 5, S. 73° W, 16 links: Maple 4, N 88° 20' W, 33 links: We find the oak standing plainly marked and the roots of the other trees from which we set a 4x4x36 inch wood post well into the ground for the true corner: Correcting back: at hub 2648.58 we run S 83° 20' E, 19.20 feet where we place a 4x4x36 inch wood post for the true 1/4 corner at hub 1324.29 we run S 83° 20' E, 9.60 feet where we set a post for the true 1/16 corner: at hub 682. We run S 83° 20' E, 4.94 feet and set post on true line.

July 3rd, 1908. Jas R. Kinler, Geo Snell, Mark Snell, axmen: John Curo, Compassman: we begin at the corner to sections 9, 10, 15, 16, and pace a compass line 1000 paces, south to the 1/4 corner, between Sections 15 & 16. We run a picket line down and correct back. July 4th 1908 We run South from the 1/4 corner between sections 15 & 16, 8° variation 100 feet steel tape, compass line: at 1500 feet set stake N. edge of wagon road on old grade: at 1505 feet centre of road: at 2640. we could find no trace of the corner to sections 15, 16, 21, 22.

August 9th, 1909. Curo transitman: Geo Snell, Hiram Snell, chainmen: Jake Smith, James E. Carey, Ben Vanasse, axmen: K & E transit 300 foot steel tape, double centre tacked hub, plum bob line Curo assisting in chaining perfect: At the corner to Sections 11, 12, 13, 14, Gov't notes call for: White Oak 6, S 20° 30' E, 35 links: Aspen 4, S 17° 40' W, 41 links: Aspen 4, N 36° 20' 73 links: White B Birch 8, N 47° 45' E, 6 links: We set the stake for the true corner from the SE Oak and the NE birch by flat chain from face of the tree after which they stand as follows: Var 8° 46' : Oak 6, S, 18° & 54' E, 23.10 feet: Birch 8, N 47° 45' E, 3.96 feet to face of "B.T". We set new bearings as follows: Tack on Green Oak bears S 58° 41' E, 10.54 feet. the two old Aspens are gone. Run West 7° 50' variation: at 1075 feet set hub: at 1320 feet set hub: at 1586 centre of main road, bears N & S: 1669.30 set hub: E. of lake & quit for night.

August 11th, 1909 Beginning at corner to sections 11, 12, 13, 14, run North on 10° variation: at 50 feet enter solid meadow, (wet) at 540 feet lv meadow: at 730.50 set hub: at 800 cross main stage road: at 1241.60 set hub: 1320. hub at 1385 enter marsh (solid) : at 1550 feet lv. marsh: (culvert site in centre) at 1914.50 set hub: at 2030. enter marsh: at 2185 lv same (Culvert site in centre) at 2444.10 hub: at 2600 set stake enter marsh: at 2440, stake in marsh, culvert site : at 2740 lv marsh: no trace of the 1/4 corner can be found: at 5276. feet, true corner sets East 40.90 feet.

August 12th, 1909. At the corner to sections 1, 2, 11, 12, the notes call for: Aspen 9, N 60° 40' W 38 links: White pine 24, N 53° 10' E, 58 links: White pine 24, S 63° W, 50 links: Br Oak 6, S 23° E 5 links: We find all of the trees from which we set a 4x4x36 inch wood post for the true corner and make a new bearing tree as follows: Aspen 8, N 48° 57' E, 45. 09 feet to tack head. Var' 8° 46', Run East on 7°15' variation: set hubs along the line: at 1406 centre of old log road N&S : at 2640 no trace of the 1/4 cor! at 4940 cross old stage road NE & SW: at 5313 set hub: can find no trace of the corner to sections 1 & 12. so we will have to run it in. 17°

August 13th 1909 M. C. No 4, on South side of Tuliby lake is gone: C Charles Blom Jr. Jac Carey & Curo find M. C. No 5, on the North side of Tuliby lake where the notes call for : Yellow pine 16, N 53° W, 29 links: Yellow pine 18, S 70° E, 45 links: We find both the trees from which we set a 4x4x 36 inch wood post for the true Meander . this is the M. C. No 41 for the Twp. East. Point Telescope South across the lake at 8° Variation and drive a stake at the Waters edge on South side of Tuliby marked "0.0". from which we chain South: at 1364.80 set hub: at 1500 set stake: at 1570.80 set hub: temporary NE Corner of Sec 12: at 1665.20 set hub:

August 14th 1909, continue South: at 2748.50 set hub : at 2800 set stake and quit this line 'till future time. Setting transit on M. C. No 5, on N, side of Tuliby lake we make a new bearing as follows: Tack in graen 6 inch oak stump bears S 41° W, 2.65 feet. We back sight telescope on the long cut out line South of the lake and run North: at 112.50 set hub, variation changes to 6°50' at 473 ft cross Gilmer's road E&W: at 1426.26 set hub: the true Corner of the Township bears N 84° 56' E. 41.45 feet making the distance 3.70 feet longer than Gov't chains

10-11-14-15

1/4 10-15
9-10-15-16

1/4 9 and 10

3, 4, 9, 10.

1/4 3 and 10

2-3-10-11.

1/4 3, 10
1/16 3 and 10

9-10-15-16
1/4 15-16

15-16-21-22

11-12-13-14

11-12-13-14

1/4 11-12

1, 2, 11, 12.

1/4 1 and 12.
1 and 12.

M.C. No 4.
M.C. No 5.

1-12.

M.C. No 5

Twp Cor

At the NE corner to Twp 140, Rge 27, the notes call for a post and SW Tamarack 5, S25° E. 87 links: Tamarack 6, S 27° 30' W, 56 links: We find the stump of the SW tree dimly marked from which we measure our and by running a sharp iron pin down in the moss we strike the old triangular shaped Government stake plainly marked lying in the water: under a net work of roots, 14 inches under the surface: we cut away the moss: carefully stand up the post upon which we set the transit and the old stumps of the BTS stand perfect for course and measurement: We make new bearing trees as follows: Jack pine 6, N 11° W, 177.70 feet: Norway 12 N 63° 6' E, 160.50 feet to tack heads. Geo Snell, and Jim Carey were the chief witnesses to the resurrection of the North east corner to Township 140 N, Range 27 W.

August 15th 1909. We go to the 1/4 corner between Sections 15, & 16 where Gov't notes call for: Ash 5, N 23° 30' W, 31 links: White pine 20, S 1° E 39 links: We find the SE tree plainly marked but down from which we set the true corner being 4x4x48 inch maple post: the NW, Ash is gone: Set new bearings as follows: 8°46' variation: White pine stump 26, N 28° 23' E 57,80 feet: White pine stump 30, S 33° E, 58.65 feet to tack heads drove in stumps: Run East on 7°45' variation: at 2045 feet centre of Mark Snell's road on old R. R. grade bears N&S: at 2059.60 feet set hub East of Road and quit for night.

Part 2

Survey Record No 154 T. 140 N, R 27W, S. P. M. Sections 1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 16, 22, 23, 24, L40-27 August 16th 1909, Geo Snell and Mark Snell chainmen: Hiram Snell and Jas Carey axmen. K&E transit, 300 foot Chicago steel tape, plumb-bobline Double centre hubs, Curo transitman and assistant chairman. Beginning at a point on hub 2059.60 feet east of the 1/4 corner between Sections 15 and 16 we continue East: 7°45' variation: at 2260 feet set hub: at 2335.80 feet set hub: at 3042 feet set hub: at 3550.40 feet set hub: at 4026, cen' of old road on old grade, bears NE & SW at 4047.20 set hub: at 4150 enter open meadow south of Beaver Dam: at 4600 lv meadow: at 4700 set hub: at 5000 set stake in centre of old main stage road: bears SE & NW: at 5033.40 set hub: at 5325.20 and the 1/4 corner between sections 14 and 15 sets South, 30.70 feet.

At the 1/4 corner between sections 14 and 15, notes call for a post and Tamarac 10, S 30°30' W 9 links: Tamarack 6, S 20° E, 30 links: We find the old stake: with the point way down in the moss. and both the bearing trees down, dug up by carey, we set a new stake 4x4x36 inches in size for the true 1/4 corner with new bearings as follows: Cross (+) on south brow of big rock bears North 29.90 feet: a nail in top of Ash stake bears S 40°33' E, 40.55 feet.

August 17th 1909. At the corner to sections 14, 15, 22, 23, the notes call for apost and the following trees: Poplar 6 S 21° 30' E, 53 links: Poplar 6, N 46° E, 33 links, White pine 12 S 76° 30' W 26 links: Maple 6, N 60° 45' W 32 links: We found the NW Maple standing plainly marked, and the stump of the SW W Pine plainly marked: also the SE Poplar plainly marked but down and out by the roots: We set a 4x4x36 inch wood stake for the true corner by proportionate measurement from the SE poplar and the NW Maple. distance is 0.60 feet too long, flat to face of figures, After setting stake the trees bears as follows: 8°46' variation: Old Maple B.T. bears N 59° 7' W, 21.42 feet: a tack in the same tree bears N 59° 46' W, 21.30 feet: A tack in the face of the old W. P. stump, bears S. 78° 46' W, 17.16 feet: Old Poplar B. T. bears S 21° 30' E, 35.28 feet.

Run north on 7°50' variation between sections 14 and 15, Geo Whitted cutting brush: at 1320 ft set hub: at 1595.60 ft set hub: at 2256.10 set hub: at 2355 ft cen' main stage road bears E&W: at 2627.60 the 1/4 corner sets West, 29.60 feet.

Beginning at the 1/4 corner between sections 14 & 15, we run East on 7°45' var': at 600 set hub: at 1115 feet centre of main stage road bears NE & SW: at 1130.30 set hub: at 1372.50 set hub: at 1751.60 set hub: at 2094. set hub at 2230.30 set hub.

August 18th 1909 continue East: At 2915 feet center of Geo Snell's road bears N & S: 2924.70 set hub: at 2737.40 set hub: at 4508.10 set hub: at 4979.60 set hub: at 5300. set hub: at 5323. the 1/4 corner between sections 13, and 14 set North 62.40 feet, At the 1/4 corner between sections 13, & 14 the notes call for a post and the following trees: Balsam 6, S 10° E 40 links: Cedar 4, N 1° 45' W 35 links: We find the NW tree down and out at the roots, the one root still hangs, from which we set a good 8 foot cedar post 4x4 drove well into the swamp with new bearing trees as follows: Balsam 4, S 16° E, 75 feet to tack head: Balsam 4, S 6°15' W, 43.10 feet to tack head at 8°46'.

Beginning at Meander corner No. 10 on the North side of Island Lake, and on the line between sections 23, & 24, the notes call for a post and the following bearing trees: Tamarac 5 N 44°53' E 370 links: Tamarack 4 N 13°25' W 287 links: We find both old trees standing plainly marked on which we set the Meander by flat chain from face of the trees and drive a good 4x4, twelve foot tamarack pole down into the springy swamp, and it does not reach solid ground. The NE tree stands perfect for course at 8°-46' variation but I forgot to take the bearing of the NW tree: The NE B T is getting shakey so I set new bearings to it as follows: Tam 4, N 66°28' W 13.94 feet to tack head: Tam 5 N 13°3' E 27.88 feet to tack head: Tamarac 6, S 38°38' E, 28.56 feet to tack head. measurements taken to face of the old "B.T." mark of the old bearing tree.

August 19th 1909. Beginning at Meander corner No 10 on the North side of Island Lake we run North on 8° var' between sections 23 and 24: at 300 set stake in two feet of water and moss: at 461.10 set hub on bank: at 1005.50 set hub: at 1502.80 set hub: at 1625 enter main big open wet swamp: at 3099.80 set pin in swamp: the 1/4 corner between sections 13, and 14 sets west 32.60 feet. We correct the E and West centre line of section 14, and drive good solid hubs: August 20th 1909, We correct up the E & W centre line of sections 14 and 15.

April 7th, 1910. John W. Curo transitman: Geo Snell chairman. At the corner to sections 13, 14, 23, 24, Gov't Notes call for a post and the following bearing trees: Tamarac 5, S 81° E 117 links: Tamarack 6, N 74°15' E 105 links: Tamarack 5, S 19°45' W, 23 links: Tamarack 4 N 80° 30' W 52 links: A year ago Mark Snell, Geo Snell and Curo were here and found the old Government stake plainly marked and it checked out perfect with the roots of the old bearing trees, the stumps of which are still standing but the figures have been burned off: We drive a stake well into the ground after straightening it up and it is still where we put it as measurements taken to a tamarack tree East and the old Meander corner South. show.

April 7th 1910 A. W Moulster transitman: Mark Snell, E. C McVay chairmen: Cap Withrow axmen: Beginning at the corner to sections 13, 14, 23, 24, previously set by Curo run West At 7°45' var' H&B transit 200 foot Chicago steel tape: At 1100 lv open bog: at 1169.85 hub on beach: at 1664.50 hub: at 1740 Island Lake: M C No 15. can not be found:

Twp Cor

1/4 15-16

1/4 15-16

1/4 14-15

14, 15, 22, 23

1/4 14-15

1/4 13-14

M.C. No 10 23-24

M.C. No 10 23-24

1/4 13-14

14-15

13-14, 23, 24

M.C. 15

Get distance across lake by tying a 200 and 300 foot tape together: at 2120.02 lv lake and set pin: at 2420.02 set pin: at 2628.40 hubin field: at 2640 set hub M. C. No 16, and the 1/4 corner between sections 14 and 23 are gone: at 3130 enter open bog: at 4225. lv bog : at 4315.50 set hub at 4705.95 set hub: at 5339.60 set pin: the corner to sections 14, 15, 22, 23, sets South 95.35 feet.

April 8th. 190 Moulster, transitman: Correct the line back as follows: At hub No 2640, we chain west 29.80 feet to hub 2669.80 then South 47.675 feet where we drive an iron rod for the 1/4 corner b between sections 14 and 23, at which point a cross (+) in a big rock bears south 2 feet, Run North on 8° var' : at 237.45 set hub: at 500 enter bog at 1200 set stake : at 1450 feet lv bog: at 2603 cross E & W transit line: at 2654.65 set hub and quit this line Begining at the true 1/4 corner between sections 14, 15, back sight telescope on the true section line South, and run North on 7°55' var. at 128.95 set hub on bench: at 854.05 set hub. at 1491.50 set hub: quit for night.

April 9th 1910 A. W. Moulster and crew: continue North: at 1969.55 set hub: at 2640. the true corner to sections 10, 11, 14, 15. set 4.50 ft North and 122 feet West.

John Curo and Geo Snell pull up the old stake previously established by Curo, and put a new stake in its place and make new bearing trees as follows: Poplar 10 N 86°53' E 130.15 feet: Poplar 8, S 36°7' E 113.75 feet.

Curo transitman: Geo Snell and Axel Whitted as a crew: Begining at a point between sections 13 & 14 on hub 1500 feet North of M. C. No. 10, chain North 280.45 feet to hub 1780.45: then 17.41 feet West and place a 3x3x85 inch post for the true 1/16 corner: then Begining at a stake marked "0.0". at a point on that out transit line, 32.60 feet of 1/4 corner between sections 13 & 14, we run North continuing the old transit line perfectly straight: at 185.80 set hub: at 200 enter solid meadow: at 939.20 tack in log: at 1200 lv tam' swamp : at 1414.90 set hub: at 1667. set hub at 2367.80 set hub: at 2540.70 set hub at 2640.80 set pin: true corner to sections 11, 12, 13, 14, sets West 39.30 feet.

PART 3

Survey Record No. 154. T 140 N. R 27 W. 5 P. M. 140-27.

April 10th 1910. John W. Curo, transitman, Geo Snell ax & Chairman: Begining at the 1/16 post North of th corner to sections 13, 14, 23, 24, we run West on 9° var' At 390 feet lv sawmp: at 1320. ft set hub: at 1698.90 set hub: 1720 set stake.

Correcting the West & West centre line of section 14, Begining at stake 2600 we chain East 67.10 feet and set hub: then North 31.27 feet where we place the true centre stake of section 14: At a point 2633.15 feet North of the 1/4 on S, side, the Preliminary line run by Moulster is 16.52 feet East: We set the true centre post of section 14, with bearings as follows: White pine 36. N 65° 40' E, 46.78 feet Tamarack stump 8, S 34°5' E 50.10 feet. To set the centre of East half of Section 14, we begin at hub 3737.40 and chain 257.65 feet to 3995.05, then North 46.83 feet we place a 4x4x48 inch post for the true 1/16 corner with bearings as follows : Spruce Stump 15. S 17° 10' E, 25.15 feet: Spruce stump 12, N 32° 21' E 36.35 feet at 9° variation. To set the centre of the South half of section 14, we begin at the 1/4 corner on South side and chain north 1316.57 feet along Moulsters line. then West 8.26 feet where we place a post for the true 1/16 corner: Tset center of the SE 1/4 of section 14, we begin at the 1/16 on East side and chain West: at 13200 set hub at 2662.85 true corner sets North 9.60 feet: correcting back we begin at hub 1320 and chain 11.80 feet West to hub 1331680 then North 4.80 feet. where we drive a post for the true centre of the S. E. quarter of section 14. To put in the 1/16 west of the corner to Sections 13, 14, 23, 24, we chain west 1334.90 feet, then South 23.84 feet where we place a solid post for the true 1/16 corner.

April 11th. 1910 A. W. Moulster transitman. Mark snell & Bill Carey chainmen. Cap Withrow and Axel Whitted, axman: Begining at the corner to sections 1, 2, 11, 12, run West on 7° 50' variation at 213.70 set hub on bench: at 1204.05 feet set hub: at 1761.76 feet set hub: at 2280.55 set hub at 2640 feet set hub: we find traces of the old Government 1/4 corner but as they are not plain we continue West : at 2833.85 set hub: At 3250.87 set hub at 4305.50 feet set hub: at 4579.50 set hub: at 5122.60 set hub: at 5125. feet the true corner to sections 2, 3, 10, 11, sets South 47.50 feet.

April 12th 1910 A. W. Moulster transitman: Marks Snell & Alex Whitted chainmen: Bill Carey and Cap withrow axmen: Curo and Geo Snell assisting: To put in the corner to sections 1 and 12, and 12 & 13, on the Range line between Ranges 26 and 27 we proceed as follows On March 27th 1910 Geo Snell and Cap Withrow begun at Meander Corner No 5, of Twp 140 R. 27 on the North side of Tuliby Lake and chained South across the Ice and found the distance 2572 feet to stake previously set by Curo on the south side of Tuliby Lake Marked "0.0". The Distance across Tuliby Lake is 2577.30 feet Gov't chain between Meander No 4 and No. 5 so by begining at stake 0.0. on the South side of Tuliby Lake, Moulster takes Curo's line and runs South over old line of hubs: Setting transit on Curo's hub No 2748.50 South of Stake 0.0. back sight telescope on M. C. No. 5, and and run South: at 3100.15 hub on hill: at 3776 set hub at 4260. set pin: P. M. Curo takes the transit and continues the line: at 4400 set pin: at 4449.70 set hub: at 51200. set hub: at 5394.10 feet set hub: at 5958. set hub : at 6377. set hub: at 6821.50 set pin: the true corner to 12 and 13 on Range line, sets East 12 feet : at this point the notes call for a post and the following bearing trees: Red Oak 8, N 23° E 6 links: White pine 28. S 35E 53 links Black Oak 6, S 16° W, 47 links Black Oak 8, N 21° W 63 links. We find the SE pine plainly marked but burned off the stump and down, also the SW oak with nothing but the stump standing. The NE Oak is down and rotted to mush but the NW Oak is gone: We set a good strong 4x4x48 inchoak post well into the ground for the true corner from the face of the SW and SE trees which check out perfect for course and chain.

April 13th, 1910 Correcting back: As the 1/4 corner on the East side of sections 12 is gone and the M. C. No 4 on the S of Tuliby lake is gone we consider and figure the total distance : 9428.10 feet Government chain equals 9393.50 feet my chain making it 34.60 feet short according to my chain From a point 4148.10 feet South of M. C. No 5, where the NE Corner of sections 12, should be, we chain 15.22 feet North to hub 4132.88, then 5.28 feet east where we drive a 4x4x48 inch post for the true section corner with new bearing trees as follows: Birch 2 1/2, S 40° 34' E 24.35 feet. Birch 4, S 46° 48' W 58.00 feet to tack heads, courses taken from Range line at about 8° 30' variation magnetic. Correcting up the old line run last year between sections 1 and 12, we begin at hub 5313. feet east of the NW Corner of section 12, we chain 45.50 feet east to hub 5358.50 at which point we intersect the range at a point 137.60 feet North of the true NE corner of Section 12 just set.

14, 15, 22, 23.

1/4 14-23

1/4 14-15

10-11-14-15

13-14
M.C. No 10
1/16 13-14

11, 12, 13, 14.

1/16

13, 14, 23, 24

Center 1/4 Sec 14

1/16 Sec 14

13, 14, 23, 24

1, 2, 11, 12.

2-3-10-11.

1-12

12-13
M.C. No 5

M.C. No 5

12-18.

1/4 12

M.C. No 5

1-12

1/16 Sec 14

April 17th 1910 A. W. Moulster transitman: Axel Whitted ax and chainmen: Beginning at the 1/16 post set by Curo in the centre of the East half of section 14, run North on 8° magnetic variation at 322.70 set hub: at 785.40 set hub at 1197.95 tack in old log: at 1400 set pin: P. M. Mark Snell and Wm Carey assisting: at 1997.60 set hub: at 2511.60 set hub at 2642.65 the true 1/16 post sets 25.90 feet West, and about 2.2 feet South of Curo's E & W random line. At 8° variation set new bearings as follows: Jack pine 5, N 87°45' W, 150.60 feet: Poplar 8, N 45°8' E 109.75 feet: For the corner I set an oak post 3 1/2 x 3 1/2 x 30 inches in size

1-12
2-11
11-12

April 18th 1910 A. W. Moulster, Mark Snell and Axel Whitted correct the random lines between sections 1. and 12, 2 and 11, 11 and 12.

1-2-11-12
3-4-9-10
9-10-15-16

September 21st 22nd 23rd, 24th, 25th, 1911 George Snell. Assistant County Surveyor of Cass County Minnesota. pulls up the true corners and puts in their place, a good galvanized iron monuments 2 1/2 by 48 inches in size, set in a bed of cement and concrete at the following points:
Northeast corner to section 12, and Southeast corner to section 1. : Corner to sections 1, 2, 11, 12, : Corner to sections 2, 3, 10, (K): the 1/4 corner between sections 3 and 10: the corner to sections 4, 9 and 10, : the corner to sections 9, 10, 15, 16, : the corner to sections 10, 11, 14, 15, : the 1/16 corner west of the corner to sections 11, 12, 13, 14, : the corner to sections 11, 12, 13, 14, : the corner between Sections 13 and 14, : the 1/16 corner in the centre of the East half of section 14, : The centre of section 14, : the 1/4 corner between Sections 14 and 15, : the corner to sections 14, 15, 22, 23, : the 1/4 corner between sections 14, and 23.

All in Township No 140 N, Range 27 W, 5th Principal Meridian. *All our courses turned from the true meridian*

Recorded Nov 4th 1911

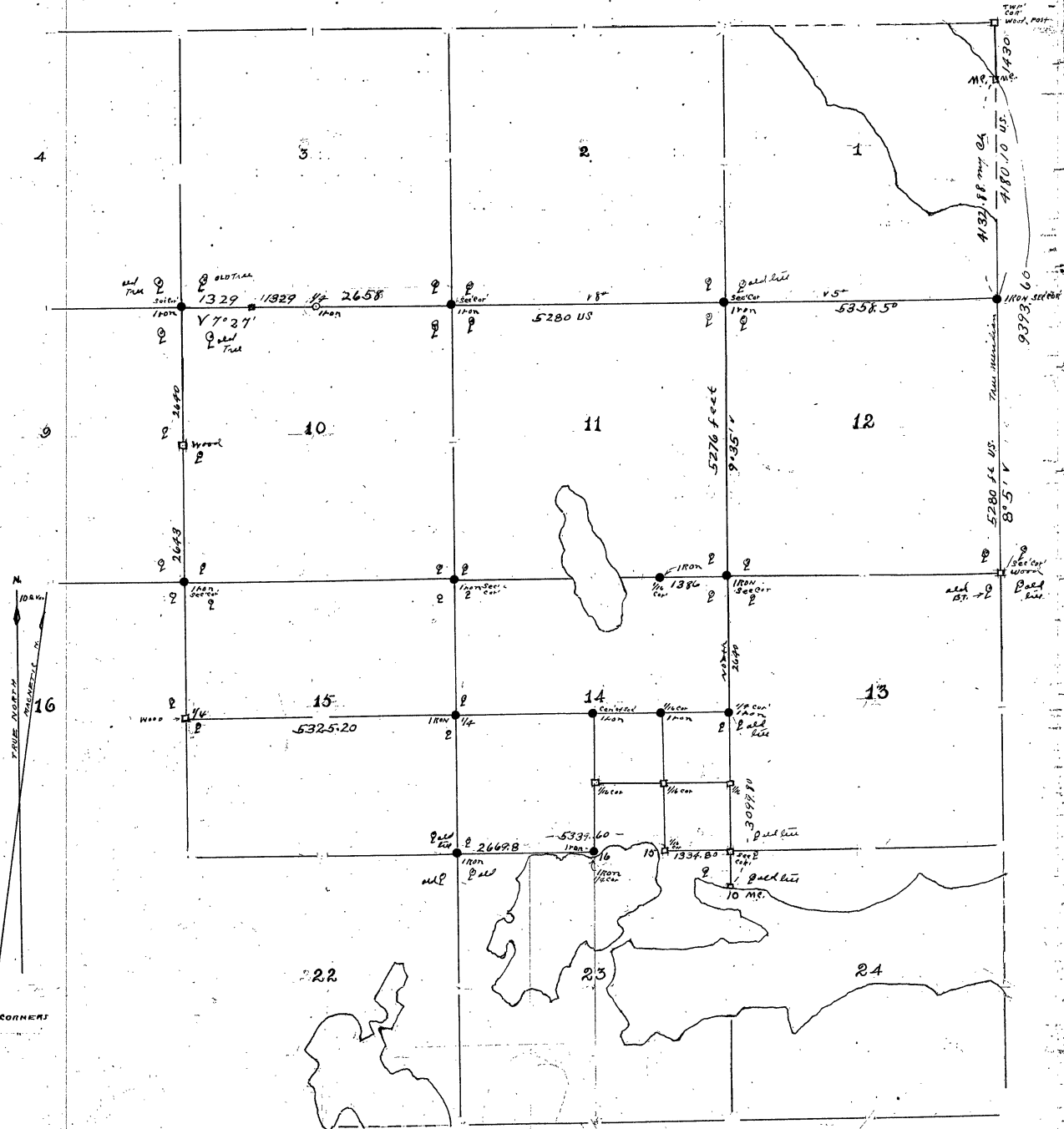
*John W. C. Curo
County Surveyor Cass Co Minn*

NOTES -			
Sec	Cont'd to	Page of	Book
1	"	"	"
2	"	568	A
3	"	568	A
4	"	568	A
5	"	"	"
10	"	429	A
11	"	"	"
12	"	"	"
13	"	"	"
14	"	"	"
15	"	429	A
16	"	429	A
22	"	432	A
23	"	432	A
24	"	432	A

PLAT OF
TOWNSHIP - No 140 N - RANGE - No 27 W
5th PRINCIPAL MERIDIAN

SURVEY RECORD - No 154 -
SEE PAGE 308 - FIELD NOTES -

scale: 3 inches = 1 mile



Survey commenced Oct 4 1906
completed Sept 25 1911
revised Nov 7 1911

See Cont'd to Page of Book		
1		
2	568	A
3	568	A
4	568	A
5		
6		
7		
8		
9	428	A
10		
11		
12		
13		
14		
15	428	A
16	428	A
22	428	A
23	431	A
24	431	A

John W. Currier
County Surveyor, C. M.

Sections No4, 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 29, 30, T 139-31-
Field notes of the survey of part of Township 139 N. Range 31 W5th Principal Meridian, through sections 4, 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 29, 30, as made by John W. Curo County Surveyor, Cass County Minnesota assisted by Harry S. Todd, Deputy County Surveyor, Cass County, Minnesota. The instruments we use are the Kueffel and Esser Engineers' transit and a 300 foot Chicago Steel tape. All courses turn from the true meridian. Survey begun July 30th, 1908. Survey finished and Iron monument set August 20th, 1911.

1/4 16-17

M.C.N. 9

-7-18

July 30th, 1908, Curo transitman. John Luiten chainmen. We go to the 1/4 corner between Sections 16 and 17, where the Government notes call for a post and the following bearing trees: Black pine 8, N 58° E, 6 links: White pine 7, N 83° W, 18 links. We find the stumps of both trees plainly marked but dead, from which we establish the true point for the 1/4 corner and drive a wood hub. Run North on 9° magnetic variation 1221 links to the south end of Goose Lake where we look for Meander post No 9, on line between fractional section 16, and 17, at which point the Government notes call for a post and the following bearing trees. Rock 2x2x1 feet in size bears S 39° E, 8 links: Aspen 8, S 50° W, 61 links: All appear to be gone

July 31st, 1908, Curo transitman. John Luten and Art Holden chainmen: Gert Luiten axman: A. N. Hanks looking up section corners ahead of survey. At the SW corner to section, 7 being the NW corner of Section 18, Government notes call for a post and the following bearing trees: Spruce 8, S 70° E, 87 links. Spruce 10 S. 45° W, 188 links. Spruce 8 N 40° E 163 links. The NE tree is standing plainly marked but dead. The other trees are gone but the old roots and stumps are there and check out perfect for course and measurement, except that between the NE and the SW trees there is a distance of 0.20 ft. too long, and between the NW and the SE trees the distance is one foot too short: We measured from the face of the NE tree and the heart of the NW and SE trees by proportionate measurement, variation, at 0° as meridian. The old bearing trees stand as follows: N 37° E, 107.68 feet to face of tree N 37° 30' W, 97.05 feet to heart of stump: S 46° 33' W, 77.98 feet to face of stump: S 70° 45' E 57.05 feet to heart of stump: at this point we set a hub and tack for the true corner with new bearings as follows: Jack pine stump 3 N 37° 30' E 20.30 feet: Jack pine 3 S 16° 47' E 12.56 feet to tack in heads

August 1st, 1908. Curo transitman, John and Gert Luiten, Frank Bice and Dell Trusty axman and chainmen: Beginning at the SW corner to section 7 run North on 9° 30' variation: at 1320 feet set hub at 1876.40 tack in stump. 2225.20 feet tack in stump at 2640 feet set hub. The 1/4 corner is gone, Continue North: At 3098.30 feet set hub at 3631.60 feet set hub: at 3960 feet set hub: At 44, 60 feet set hub: At 5280 feet set hub. The true corner sets North 55° 3' E, 130.30 feet with new bearings as follows: Jack pine 8 S 27° 17' W, 47 feet. Jack pine 8 N 13° 35' E 27.90 feet. Another 10 inch Jack pine which has been cut down stands South 4° 12' W, 13.40 feet: Measurements taken to the face of the trees 9° variation We put a new stake in at this point which is the true NW corner of Section 7 where the Government notes call for a Pine 8 N 79° W 81 links: Pine 8 S 82° W, 70 links: Pine 10 S 52° E, 64 links: All the old trees are gone. We continue our transit line North at 5350 cross E, and W wagon road and sowed field. At 5740 lv. field. At 5913 set hub. At 6372.50 feet set hub: At 6600 set hub: At 7920 feet set hub. The true 1/4 post sets North 74° 15' E, 159.40 feet. At this point the Government notes call for a post and the following bearing trees: Pine 12, S 5° W, 355 links: Pine 12 S 5° E, 33 links. We find the old SW bearing tree standing plainly marked, and the root of the SE bearing tree. from which we set a post for the 1/4 corner, after which the bearings stand correct for course and measurement. We make new bearing trees as follows: Jack pine 5, - 11.85 feet Jack pine 5 NE 23.40 feet: Jack pine 5 SW 29.80 feet to tack heads. A post set by James M. Candfield bears North 19° 15' E, 46.20 feet, My preliminary line beginning at the SW corner of section 7 and running one mile and a half North has been run straight chained by John Luiten and Dell Trusty.

1/4 8-17

August 3rd, 1908, Curo transitman: Dell Trusty, John Haney, Art Holden, Frank Bice, John Luiten. Gert Luiten axmen and chainmen: At the 1/4 corner between Sections 8 and 17 Government notes call for a post and the following bearing trees: Norway pine 13, S 72° 30' W, 44 links: Norway pine 16, N 56° 30' E 42 links. Both the trees are there plainly marked, but the SW tree has been grubbed out and hauled away on account of road building. I set a wood hub for the true 1/4 corner from the NE and make a new bearing tree as follows: Poplar 2, S 27° 10' W, 25.70 feet to tack in head. Drove tack in old NE BT at a point one inch E of the letter "S". At the corner to Sections 7, 8, 17, 18, the Government notes call for a post and the following bearing trees: Black pine 10, N 10° 30' W, 58 links: Black pine 10, S 77° W 102 links: Black pine 10, N 21° E, 110 links: Black pine 7 S 27° 30' E, 94 links. As we cannot find any of these trees we decide to run the line in. Beginning at the 1/4 post: between Sections 8 and 17 run W along road center, 11° 30' variation: At 1320 feet set hub: At 2640 feet set hub from which we put in light bearing trees as follows: Jack pine 5 SE, 2907 feet J. P. Stump NE 12.99 feet: A stake set by Hallett sate 3.50 feet E, and 1.50 feet N. We continue transit line W. At 5280 set hub: at which point the bearing trees between sections 7 and 18 are gone. We put in light bearing to our hub as follows: JP 2, NW, 12.75 feet: Fence post NE 14, 42 feet,

1/4 7-18

August 4th, 1908: Same crew. Beginning at hub 5280 we continue W: At 5446 a post set by Hallett set 8 feet So At 5990.50 feet set hub At 6600 feet set hub: At 7698.24 feet set temporary SW cor. Section 7 True corner sets 41° 9' W, 179.60 feet: Continue transit line W. 118.90 feet and at 7817.14, true corner set South 135.50 feet. All check chained by Trusty and Curo found correct.

1/4 20-24-20

Going to the corner to Sections 19, 20, 29, and 30 Government notes call for a post and the following bearing trees: Norway pine 15, N 66° 30' E, 96 links: Black pine 16, S 14° W, 84 links: Norway pine 16 N 84° 15' E 11 links Norway pine 13, N 80° 30' W. 121 links: We set a wood hub for the true corner by careful measurement from the face of the SW Jack pine and the Norway bearing tree which stands N 84° 15' E 11 links, which stands plainly marked. The other trees being burned. Run North on graded road at 8° 40' variation at 2640 feet set hub: at which point the 1/4 corner or bearing trees cannot be found: At 5280 feet old bearing trees are gone but we set an oak plug in the road centre for the temporary corner to Sections 17, 18, 19, and 20, from which we establish new bearings as follows: Tack in 6 inch dead stump. bears N 30° 42' W, 75.25 feet: Fence post bears N 85° E, 33.70 feet to tack head, which are the bearings to our temporary Section corner: continue North at 7920 feet set oak plug in W edge of road for temporary 1/4 corner, between Sections 17 and 18, with bearings as follows: NP one inch SE 24.10 feet: Poplar one inch, NE 2400 feet, A stake set by Hallett bears North 54° 25' E, 49.60 feet. At this point Government notes are gone.

1/4 17-18-20

1/4 17-18

7-8-17-18

August 5th, 1908, Same crew, Continue North: At 10560 feet set hub for temporary corner to Sections 7, 8, 17, 18, and put bearing trees to the hub as follows: JP stump 8, Sw 13.60 feet: JP 6 SE 8.30 feet, to tack heads:

At a point where James M. Canfield established this corner is 118.40 feet South and one foot West: Continue North 97.50 feet, at which point we cross our E. and W. preliminary line 54.40 feet West of hub number 2640 W of the 1/4 corner between sections 8 and 17.

August 6th. 1908. We run North one and one-fourth miles, rough compass line, and find all the Government Meander corners and section corners badly burned or gone.

1/4 8-17

Survey Record No. 155 Township 139 N. R. range 31 W. 5th P. M.

Sections 3, 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 29, 30m T. 139-31. continued.

October 7th, 1908. Frank Thompson and James Wilson of Backus chains to have seen the bearing trees to M. C. number 12, on South end of Haney Lake, Thompson drives me to the point but finds that all traces of the trees he once saw have been burned, so Wilson thinks it useless for him to identify the spot. Mr. A. N. Hanks claims to have saw the old Government bearing trees at the corner to Sections 17, 18, 19, 20, and I sent him to find them if he can.

17, 18, 19, 20

October 8th, 1908, Curo Transitman: John Haney and Ed Luiten chainmen: A. W. Hanks and John Luiten axmen. Beginning at hub number 10560, two miles North of the corner to sections 19, 20, 29, and 30. we continue transit line North, Curo assisting in chaining, perfect plumb bob line. Two miles + 650.50 feet set hub in field at -1000 enter meadow: at 1111 poplar point at 1320 stake in meadow: at 1650.20 set hub in sea wall: At 1664 feet enter South edge of Haney Lake.

19 20 29 30

October 9th, 1908, Curo transitman: John Haney and Ed Luiten chainmen: A. N. Hanks and John Luiten axmen: Beginning at 1652.20 on sea wall we continue transit line North, by causing a hub to be set on North side of Haney Lake at a point 5114.10 feet North of the place of beginning at the two mile hub. We got the distance across Lake Haney by off setting about 80 rods West with a 90° angle, with transit set on hub 5114.10 we chain 165.90 feet North and set 3 mile hub.

October 10th, 1908 Curo transitman, Ed Luiten: John Luiten and John Haney axmen and chainmen: A-W Hanks goes to look up the old Government bearing trees between Sections 7 and 8: 17 and 18m 19 and 20, which we so far have been unable to find: Beginning at three mile hub 15840 feet North of the Corner to Sections 19, 20, 29, and 30 we continue transit line North: At 410.15 feet set hub near South end of Island Lake: I caused hub to be set on the North side of the South arm of Island Lake at a point 1142.80 feet from place of beginning. We get the distance across the Lake by an off set West of 500 feet at 90° angle, carefully taken with good transit: At 1553.30 set hub. At 1663.70 feet true Meander corner 15 sets East 45.40 feet; At Meander corner 15 the Government notes call for White pine 26, N 76°W, 50 links: White pine 24, N 59° E, 36 links. The NW BT is plainly marked but down, and the slab with the figures on it is loose from the tree. We set the post from this stump at 8°46' variation. The NE BT is there but stands North 29° E, instead of North 59°E, as called for in the notes. I drove a tack in both the stumps and measured from tack heads. We found our distance in the whole to run of three miles + 1663.70 feet to be really 271.10 feet longer than the Government chain calls for.

19 20 29 30

October 11th. 1908, Curo transitman: John and Ed Luiten and Haney axmen and chainmen: A. N. Hanks still locating old Government bearing trees, At Meander post number 15 we drive an oak post 4x4x48 inches in size, we'll into the ground for the true corner.

Beginning at hub number 1663.70 on transit line at a point 45.40 feet West of Meander corner 15 we continue transit line North: At 2395.90 feet set hub, about 100 feet South of waters' edge.

October 14th 1908 Curo transitman: John Luiten, Ed Luiten and John Haney axmen and chainmen: Beginning at hub number 2395.90 feet we continue North, cause a hub to be set on the North side of the Lake at 3787.90 feet North of the place of beginning: We get the distance across the lake by off setting West at an 90° angle.

October 15th. 1908. Curo, transitman, John Luiten: John Haney: Ed Luiten, axmen and chainmen: Beginning at hub No 3787.90 we we continue our transit line North. 1428 feet to hub no 5215.90 at at which point the Northeast corner of Sections 6, and the Northwest corner to section 5 bears East at 90° angle, 139.20 feet The Government measurements of the whole run from the corner to sections 19, 20, 29, 30, North to the Town line, are given as three miles -5169.12 feet or 21009.12 feet Government chain while my chainage carefully taken under a plumb bob shows three miles plus 5215.90 feet or 21055.90 feet being 46.78 feet longer than Government chain.

19 20 29 30

At the NE corner of section 6, being the NW corner to section 5, on the Township line, the original field notes call for a post and the following bearing trees: Norway pine 20, N 87° E 95 links distant Norway pine 8 S 53° E, 92 feet: Black pine 6, S 50° W, 59 links We found the Norway stumps: the trees had been sawed off, but the BT marks were plain The S3 stump did not have the slightest sign of having been marked not even depression in the good plain bark: and the top of the stump which was short showed no sign under the closest scrutiny, but when we chopped in there was the "B. T." plain: The Jack pine was gone but the mound where the roots had been was in evidence: We set a wood post for the true corner by flat measurement from the face of the "B.T." marks after which the trees stand as follows: 8°46' variation: N.P. 20, N 89°45'E, 62.70 feet: N. P. 8 S 51°10' E 60.72 feet: Courses taken to heart of stumps, measurements to face of marks: We set an Oak stake, 4x4x48 inches in size for the true corner, and made new bearing trees as follows: Poplar 4, N 1°8' E, 22.38 feet: Dead Poplar 4, S 73°30' W, 22.30 feet to tack in heads drove in flat spot. This whole four miles has been chained over twice, being check chained by Curo and Dell Trusty, and Curo and Ed Luiten, and is absolutely correct.

5-6

October 16th 1908 Curo transitman: Ed Luiten John Luiten, John Haney, axmen and chainmen: We go to the 1/4 corner between sections 5 and 8, Where the notes call for a post and the following bearing trees: Norway pine 12, N 25°30' E, 46 links Norway pine 18, S 11° W, 28 lks. We find the stump of both bearing trees standing plainly marked from which we set a 4x4x48 post for the true 1/4 corner and run west at 11° variation: At 30 feet enter bog: at 550 lv same: At 911.80 feet set hub on raise: 1320 feet set hub: At 1326.60 feet set hub for temporary 1/16 corner: At 1340 feet enter open bog: At 2010 leave same At 2144.50 feet set hub on hill 50 feet South of the point of solid land: At 2400 feet enter bog: At 2580 feet leave same: at 2640 feet set hub At 2653.20 set hub for Temporary section corner

1/4 5-8

October 17th, 1908, Curo transitman: Trusty and Curo Chainmen: Beginning at hub number 2640 we continue transit line West: At 1320 set hub number 3960 : at 3973.20 feet set temporary 1/16 @ 5298.20. 1/4

1/4 6-7

October 18. 1908, Curo transitman, Trusty and Curo chainmen: John Luiten Ed Luiten John Haney, axmen Beginning at hub number 5293.20 we continue West 1320 feet and set a hub number 6613.20 feet : At 6973.40 feet set hub: At 7758.30 feet set hub for temporary Section corner. thence 30.40 feet west and

set hub 7788.70 feet at which point the old section corner at the SW corner of Section 6 and the NW corner of Section 7 bears South 90° angle, 179.70 feet.

1/4 8-9

October 19, 1908, Curo transitman: Same crew: At the 1/4 corner between Sections 8 and 9 the Government notes call for a post and the following bearing trees: Norway pine 12, S 84°30' W, 21 links: W White pine 26, S 85° 30' E, 28 links: Both stumps are standing plainly marked but the distance by the way of courses at 8°46' variation is 6.50 feet too long. We set a stake for the true 1/4 corner by a proportionate measurement between the bearing trees: 18.48+3.17=22.19 feet: 13.86+2.79= 16.65 feet total 38.84 feet.

4-5-8-9

October 20th, 1908. Curo transitman: Beginning at the 1/4 corner between sections 8 and 9 run North 8°46' variation: At 250 feet cross old Hackensack road which bears NE and SW: At 800 feet set stake in the centre of an 80 feet swamp. culvert site: At 1320 feet set hub at 2101 feet set hub on hill. At 2640 feet set stake: At 2654 feet the corners of Sections 4, 5, 8, 9, bears East 23.80 feet. At this point the Government notes call for a post and the following bearing trees: White pine 6, N 8 85°W, 16 links: White pine 12, S 19°30' E, 57 links: Norway pine 28, S 22°30' W 88 links: Norway pine 24, N 42°30' E 63 links: We find all the old bearing tree stumps from which we set a stake for the true corner.

3-4-9-10

Survey Record No. 155 Township No 139 N. Range No 31 W, 5 P. M.

Sections 4, 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 29, 30, 139-30-

17-18-19-20

October 21, 1908, Curo transitman: Ed Luiten, Dell Trusty chairman: John Hanly, John Luiten, Joe Phillips, Herbert Tatro axmen: At a point 2654 feet North of the 1/4 corner between Sections 8 and 9, the corners to sections 4, 5, 8, 9, bears East 23.80 feet Correcting back we set hub number 1320 North 7 feet and East 1190 feet where we set the true 1/16 corner and run East through the centre of the North 1/2 of section 9 at 9°40' variation: At 1320 feet set stake: At 2640 feet set stake: At 2930 set hub in pass between hills: At 5280 feet set stake: Then run 1320 feet North but could not find the bearing trees to the corner to sections 3, 4, 9, 10, Coming back to hub number 2930 in pass between the hills we run a line for the road center South 49° and 15' East. 1000 feet to a stake set in old road: thence South 14° West 750 feet to old grade: thence East along old grade.

1/4 8-17
19-20-29-30
5-6-7-8

August 10th 1911. Harry S. Todd transitman: Curo and John Luiten chairman: Set an iron monument 2 1/2 inches by 4 feet in size in a bed of cement for the true 1/4 corner between Sections 16, and 17 Curo, and Todd set hub for true sec cor to 17, 18, 19, 20. from one old Govt B. T. Stump.

19-20-29-30
7-8-17-18

August 11th, 1911. Curo Transitman: Todd chairman: In establishing the corner to Sections 7, 8, 17 and 18 from the lines just run. the old Government bearing trees which we have been unable to find up to this time are as follows: Black pine 10, N 10° 30' W, 58 links: Black pine 10, S 77° W, 102 link Black pine 10 N 21° E, 110 links: Black pine 7 S 27° 30' E, 94 links. We find the NE and the NW bearing trees from which we set a wood stake for the true corner at a point 2694.30 feet West of the 1/4 corner between sections 8 and 17, and at a point 10560+95.50 = 10655.50 feet North of the corner to Sections 19, 20, 29, and 30.

We go to the corner to Sections 5, 6, 7, and 8 to establish the true point for the same from the lines run, but as we find all of the old Government bearing trees we pass up the survey lines and establish the corner from the old trees: At this point Government notes call for a post and the following bearing trees: White pine 28, N 43° 30' E 23 links: White pine 24, S 75°35' W 47 links: Black Oak 10 N 16° W, 37 links. We find the stumps of the two pines well marked and the roots of the oak. all of which check out perfect for course and measurement. we set a wood stake for the corner: run South 10°30' variation: At 76.60 feet, intersect the old transit line, about 2511.70 feet West of the 1/4 corner between Sections 5 and 8 At a point 3 miles-227.10 feet North of the corner to Sections 19, 20, 29, and 30 the true corners to Sections 5, 6, 7, and 8, sets East 29 feet and at a point two miles +97.50 feet North of the corner to Sections 19, 20, 29, and 30 we intersect the true corners to Sections 7, 8, 17 and 18. August 11th P. M. 1911, continued, Harry S. Todd transitman, Ralph and Art Holden and Ed Luiten axmen and chairman: We pull up the wood hubs and put in their place a 2"x4" iron monument set in a bed of cement for the true government corners in the following places: The 1/4 corner between sections 16 and 17: the 1/4 corner between sections 8 and 9 and the corner to sections 4, 5, 8, and 9.

17-18-19-20

August 12th. 1911- Harry S, Todd transitman: Ed luiten, Art Holden and Ralph Holden axmen and Chairmen: Pull up the stake between sections 8 and 17, and sections 7 and 18 and the South West Corner to section 7, set by Curo, and put in their place a 4 foot galvanized iron, 2 inches in diameter, set in a bed of cement, for the true corner. We check up the point of the 1/4 corner between sections 7 and 18, from the notes of Curo's old survey, and at a point 2673.71 feet west of the true corner to Sections 7, 8, 17, and 18: from the old transit line we chained South 70.61 feet and intersect the iron 1/4 corner just set which shows that it is in the proper place.

August 14th, 1911 Todd transitman, John Luiten Ralph and Art Holden axmen and chairmen: Pull up wood hub at the corner of sections 19, 20, 29, and 30, set by Curo, and put in its place an iron corner 2x48 inches in size: set in a bed of cement, for the true corner. Going to the corner to Sections 17, 18 19, and 20 we establish the true corner from Curo's old survey and set an iron 2x48 inches in a bed of cement, for the true corner, At the corner to Secs 7, 8, 17, 18, we pull up wood stake and place 2x48 in iron post for the true corner.

August 15, 1911, Harry S. Todd transitman: Ed Luiten, Ralph and Art Holden axmen and chairmen: Pull up the wood stakes set by Curo at the NE corner, the SW corner and the 1/4 corner on the West side of Section 6 and set a 2x48 inch iron post, in a bed of cement, for a true corner.

August 16, 1911. Todd transitman: Henry Luiten, Ralph and Art Holden chairmen and axmen: Beginning at the SE corner to Section 7 run west along Curo's old transit line 1336.85 feet then South 35.30 feet at which point we establish a true 1/16 corner and run North on 8°35' magnetic variation: at 490.50 set hub: at 1312 feet set hub: at 1345 feet enter swamp: at 200 feet leave same: At 2270 feet set hub: at 2450 feet cross road bearing NE and SW and enter ploughed field, not planted: at 3030 feet enter wagon road bearing N & S: 3160 feet leave road: at 3180.50 ft set hub: at 3629.50 set hub Then in order to run up the road, we run N 1°18' W, at 4370.80 set hub: then angle to right 2°12' and at 5280 set hub.

August 17, 1911 Todd transitman, John Luiten, Henry Luiten Ralph Holden axmen. Atr Holden and Harry S. Todd chairmen: Beginning at the SW corner of section 6, previously established we run east on 9°30' magnetic variation, following graded road, At 2866.70 set hub: at 3785.10 feet set hub for temporary 1/16 corner: at 5105.10 feet, the true South East corner of section 6 bears North 403.45 feet, angle taken from preliminary line. Correcting back. at hub 3785.10 we run North 297.70 feet at which point we place a wood hub for the true 1/16 corner.

1/4 8-17

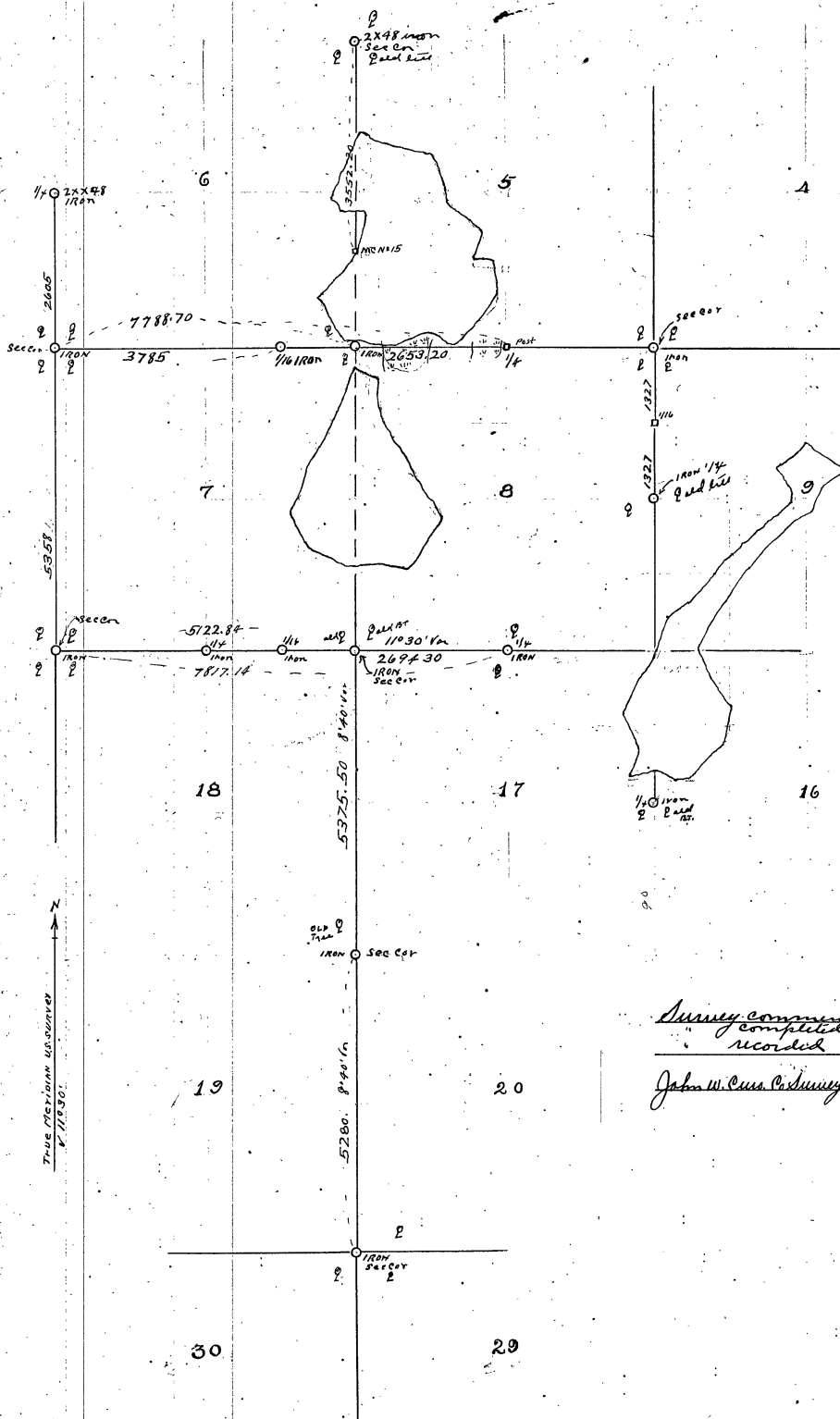
August 18. 1911 Harry S. Todd transitman H. Luiten, Lucien Holden and R. Holden axmen. Art Holden and Todd chairmen. Beginning at the 1/4 corner between sections 8 and 17, we run east on 9° 30' variation At 2620 set hub: take stadia reading across Goose Lake and find the distance to be 927.24 feet added

TOWNSHIP No 139ⁿ RANGE No 31^w 5th PRINCIPAL MERIDIAN

Survey No 155-

Scale 3 inches = 1 mile

SEE PAGE 313 - FIELD NOTES



Survey commenced July 30 1908
 completed Aug 20 1911
 recorded Nov 4 1911
 John W. Cunniff Surveyors, Cass Co. Mo.

Continued from page 315.

139-31

to 2620 feet equals 3547.24 feet: at 4399.56 feet set hub: at 5290.56 feet set hub for temporary corner between sections 9 and 16, at which point the Government bearing trees are gone.

August 19th 1911, same crew continue east: At 5773.04 feet set hub: at 6415.30 set hub: at 7243.10 set hub at 7930.56 feet set hub. August 20. 1911 Todd transit man H Luiten. L. Holden Chas Seward, axmen: Art Holden and Todd chainmen. Looked for the corner to sections 9, 10, 15, and 16, at which the government note bearing trees appear to be gone. Run compass line half a mile east to the corner between sections 10 and 15 but can find no trace of the government bearing trees or old post. We look for the corner to sections 8, 9, 16 and 17 but old government bearing trees appear to be gone.

Going to the 1/16 corner west of the corner to sections 7, 8, 17, and 18 we pull up the wood hub and set a galvanized iron pipe. 4 feet long by 2 inches thick, set in a bed of cement for the true 1/16 corner.

We correct the North and South center line through the east half of section 7 so that the new proposed road will run straight from one 1/16 corner to the other.

274

9-10-15-16

8-9-16-17

7-8-17-18

Survey begun July 30 1908
" Finished Aug 20 1911
" Recorded Nov 4 1911

John W. Cass, Co. Surveyor Cass Co. Minn

2

Field notes of the survey of a part of Township No 137th Range 29th 5th Principal Meridian through sections above shown, as made by John N. Curo, County Surveyor of Cass County, Minnesota and deputies appointed by him as shown.

Section 6

March 30th 1906. We use N and E transit and 100 foot chain; G. L. Kelly & C. J. Alund, axmen; H. O. Hanson and Curo, chainmen; John N. Curo transitman.

1/4

At the 1/4 corner on the West side of Section 6, Govt notes call for a post and the following bearing trees. Sawn 5" Q. 28° N. 35 links; Sawn 5" Q. 30° E. 31 links; We found the post and the Q. N. tree plainly marked from which we set a new 4"x4"x48 inch tamarac post well into the ground for the true corner; The Q. E. tree could not be found. Run South at 92° 30' variation; at 1320 feet set hub; at 1420 set hub; at 1720 set hub; at 2640 set hub.

March 31st 1906. H. O. Hanson and Curo, chaining; John H. Heninger, axman; Continue South; at 2940. set hub near the road; at 3960. set hub, and offset 25 feet to the right at 90°; thence South on 92° 30' variation; at 5280 set hub; Offset back 25 feet to the left, East and set hub; turn transit on 1/4 corner on the West side of Section 7, which was in place, and the course reads Q. 52° 30' N. 49 feet.

In Section 7:

at the 1/4 corner on the West side of Section 7, Govt notes call for a post and the following trees: Oak 6" N. 80° N. 34 links, Birch 14" N. 75° E. 20 links. We find Oak stump standing plainly marked from which a 4"x4"x48 inch oak post has been correctly set for the true 1/4 corner; the Birch is gone; Connecting back at hub No 2640 in run Q. 52° 30' N. 2450 feet at which point we set a 4"x4"x48 inch tamarac post for the true corner to Sections 6 and 7, on the Range line.

P. M. Chris Swanson and Grover Heninger, axmen and chainmen; Connecting back; at hub 1320 we run Q. 52° 30' N. 12.25 feet which establishes the 1/16 corner South of the 1/4 on N. side of Sec. 6.

Secs 4, 5, 8, 9.

July 3rd 1906. W. H. Hallett and John N. Curo set the corner to Sections 4, 5, 8, 9. from old Govt bearing trees, and put in new bearings as follows: Jack pine 12" N. 64° 31' N. 52 links. Jack pine 12" N. 41° 30' N. 73 links.

Section 6

At the 1/4 on the North side of Section 6, Curo and Hallett establish the true 1/4 corner from old Govt bearing trees and put in new bearings as follows: Jack pine 8" N. 77° 31' N. 50 links. Jack pine 8" Q. 66° 55' N. 40 links.

Sections 8 & 9

April 26th 1907 Curo transitman. P. L. Parish, ax and chainman; N and E. transit; Beginning at hub on old transit line, set 5280 feet North of the corner to Sections 8-9-16-17 the true corner sets N. 78° 5' E. 34.80 feet; Connecting South to hub 3960, we run N. 78° 5' E. 2620 feet at which point we place a stake for the true 1/16 corner; Going South to hub 2640. we chain N. 78° 5' E. 17.40 feet at which point we place a post for the true 1/4 corner between Sections 8 and 9; At hub 1980 run N. 78° 5' E. 13 feet and place stake on line.

To run the approach of the new bridge across Pine River, we set the transit at a point in the center of the bridge where the section line crosses, about 30 feet from the N. N. end and 1125 feet North of the corner to Sections 8-9-16-17. and run thence N. 36° 47' E along center of bridge and at 192 feet set hub; thence North parallel to section line. 300 feet; thence N. 15° 5' N. 422 feet intersecting the section line at a point 1980 feet North of the corner to sections 8-9-16-17.

Sections 3 and 4

June 1st 1908. John Keyoth, R. P. Keyoth, Bill Seakes, Geo. Robrdeau, axmen and chainmen; John N. Curo Transitman set the NE corner of Section 4 and NE corner Section 3 from four old Govt bearing trees which are plainly marked.

October 23rd 1909. Curo transitman. N and E. Transit; John and Henry Leif, J. N. Osrover assisting; We begin at the true 1/4 corner set from old Govt bearing trees on the North side of Section 4, and run transit line 1/2 mile West on 8° 45' variation and set a line of white pebbles along the true section line

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without chaining it, clear to the corner to Sections 4 and 5, on township line where we set a post for the true NN corner Section 4 from all of the old bearing trees which we find plainly marked.

Dec. 21st 1908. Hand E. Transit, Caro Transitman; J. P. Leaf, Geo. Newman Jim Ellis, axmen and chainmen. We are making a survey of a judicial highway between Cass and Crow Wing Counties. We go to the corner of Sections 27-28-33-34 T-137N-R-29W. where Groat notes call for a post and the following bearing trees: Black Pine 6" N-43E-23 links; Black Pine 6" N-38W-37 links; Norway Pine 12" R-31W-36 links; Black Pine 6" R-64E-50 links. We found the stumps of the old Groat bearing trees plainly marked from which we establish the true corner by flat measurement from the stumps and place 7/8 inch iron, 2 feet long; the iron is a piece of an old bedstead.

We go to the corner to Sections 21-22-27-28 where Groat notes call for: Black pine 6" Q-61E-36 links; Black Pine 5" R-64W-35 links; Black Pine 12" N-57W-115 links; Red Oak 5" N-75E-41 links. We found all of the trees, which are plainly marked except the NE and SW. We find a 4x4 oak stake set by N. H. Hallett take correct for the true corner and we drive a tack in the stake at the point for the true corner and establish new bearings as follows: Jack Pine 12" N-54W-51E-49.70 feet; Jack Pine 10" R-79W-33E-44.10 feet to tack head, at 8-46 variation.

Dec. 22nd 1908. Run South at 930 feet enter N bend of 10 foot creek; thence up stream; at 967 feet leave creek - of which the general course is East; at 1320 feet set hub; at 2640 feet set hub. The bearing trees to the 1/4 corner are gone; at 3530 cross 6 foot creek, - bears East. At 3960 feet set hub; at 5280 feet set hub; the true corner to Sections 27-28-33-34 - bears South 28.40 feet; Correction back hub 3960 goes South 21.30 feet where we drive a 7/8 iron, being a piece of an old bedstead, for the true 1/4 corner; at 2640 we chain South 14.20 feet where we drive 7/8 inch iron, being a piece of an old bedstead for the true 1/4 corner between Sections 27 and 28; set hub 1320 we chain South 7.10 where we drive a 7/8 inch piece of iron bedstead for the true 1/4 corner.

Dec. 23rd 1908. all work but Grover: with Transit at corner to Sections 21-22-27-28. back sight South on true section line and run North; at 1320 feet set stake; at 2640 feet set hub; The old Groat corner and bearings are gone, continue work; at 3960 feet set hub; at 5280 feet set hub; the corner to Sections 15-16-21-22 sets post 135 feet. We have chained this mile in the rough with out a plumb bob. At the corner to Sections 15-16-21-22 Groat notes call for a post and the following bearing trees: Aspen 6" R-11W-36 links; Norway pine 15" R-52E-262 links; Aspen 12" N-61W-228 links. No trees in Section 15. We find the stump of the R.E. tree plainly marked from which we set a 4x4x38 inch pine post for the true corner and make new bearings as follows: Jack Pine 12" N-59E-37.50 feet; Jack Pine 12" R-57W-39.6 feet to tack heads at 8-46 magnetic variation. We carry the Transit half a mile South after moving it on line between the true corners, set a row of white stakes the whole mile, showing the true section line between the lines 21 and 22.

Dec. 24th 1908. Taking the angle of the two lines, I find they East boundary of Section 21, runs on 1026 variation more than the East boundary of Section 28.

January 12th 1909. J. P. Leaf. Use Groveland and Caro dig up the old hub at the true North west corner of Section 6 which was set by Caro

27-28-33-34
137-29

21-22-27-28
137-29

1/4

27-28-33-34

1/4-27-28

21-22-27-28

15-16-21-22

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Section 6-

and set two years ago at a point previously established by them from the old
Spot bearing trees, at which time they set the true Township corner and put in new
bearing as follows: Norway Pine stump 24" N about 20° N. 46.40 feet to a back
head: Birch tree 2" S. about 20° E. 26.30 feet. No tack: stump 6. 5. N. 54.75 feet to tack head.
Tack in root of one old bearing tree bears N 71° 47.50 feet.

We drove a trap pipe with steam cock on to be used for the true Twp corner.

The old bearings are there and check out perfectly.

Sections
5-6-7-8-

May 11th 1909. To set in the corner to Sections 5-6-7-8. John N. Curo

transitman. Dan Matzgen and Curo chaining. Perfect Hand E transit, 300
foot steel tape. John Swinman and Jim Parsons axmen: at the 1/4 corner
between Sections 5 and 6. Spot notes call for a post and the following bearing
trees: Norway Pine 15" R. 70° 30' N. 17 links: Norway pine 20" R. 35° E. 12 links:
No find the small square 1/4 post set a year ago by Curo, from both of the bearing
trees which are plainly marked. The post has tipped over out Mr. N.H. Elwood
a surveyor has set a 2 inch iron pipe for the true corner and I find it checks
out perfectly with the old R.E. stump which has been sawed down since I was
here last, and the figures have been burned but I drove a tack in the
old post at the exact point where the figures used to be at 8° 46' variation.
The iron is a 1" x 12" crooked on one end. We run South at 8° 09', across
plowed field; at 1320 feet set hub:

May 13th 1909. Curo, transit. Dan Matzgen and Curo chaining. Perfect
Hand E transit. 300 foot steel tape. John Swinman, Earnest Matzgen, Jim
Parsons, Gus Johnson, Tom Cummeth, axmen, Continue South: at 1448 feet
center of Maud R.R. bears N 71° and R.E.: at 1627.50 set hub on hill: at 1700 enter
river bottom: at 1774 enter Norway Brook, runs S.E.: at 1876 leave Norway
Brook: at 2020 leave river bottom: at 2269.30 set hub: at 2370 enter
river bottom: at 2520 set stake in meadow: at 2555.30 set hub N of river: at
2538 enter Norway Brook, runs S.W.: at 2640 feet set stake in river for temporary
corner to Sections 5-6-7-8. Where spot notes call for: Elm 8" N 5-8° E. 150 links
Norway Pine 10" R. 70° N. 252 links: Elm 7" N. 34° E. 215 links: also a Witness
corner 25 links South with bearings as follows: Elm 5" R. 63° E. 100 links. All
appear to be gone and we continue South: at 2690 leave river: at 2720.10 set
set hub in meadow, at 2820 set stake on tow head, on point in river: at
2920 enter Norway Brook, runs S.E.: at 3032 leave same: at 3062.50 set hub mouth
bank of river: at 3129 set stake: at 3200 enter river bottom: at 3420 set stake in
meadow: at 3500 feet enter Norway Brook, runs S.W.: at 3638 leave same: at
at 3720 set stake: at 3950 set stake 10 feet North of Pine River: at 3960 enter
river, runs East: at 4077, leave Pine River: at 4250 set stake: at 4547.50 set
hub on North slope: at 4550 set stake: at 4630 feet center of old road,
bears R.E. and N.W.

May 14th 1909. continue South. Cummeth and Curo chaining. Perfect
Curo transitman, Swinman, Johnson, Parsons, axmen: at 4850 set stake
on hill: at 4993.40 set hub on South brow of hill: at 5150 set stake:
set stake for temporary 1/4 corner between Sections 7 and 8 at which
point the spot notes call for a post and the following bearing trees: Aspen 5"
R. 56° E. 12 links: poplar 5" R. 82° N. 24 links. All appear to be gone, we continue
South: at 5560 feet set stake: at 5680 set stake North of meadow: at 5980 set
stake South of meadow: at 6212.20 set hub: at 6280 set stake on side of hill: at 6580
set stake: at 6581 set hub: at 6880 stake at 7180 stake: at 7420 set hub: at 7760.50 set
stake. The true corner to Sections 7-8-17-18 set post 82.60 feet: at this point the spot
call for: Poplar 3" N. 48° E. 56 links: Poplar 3" N. 29° N. 72 links: White pine at R. 48° N. 100
links: Poplar 5" R. 33° E. 40 links: I find the R. N. old spot trees still standing and
the sharp point of a rock, set for the true corner, by old Jos. Plank and I two
year ago: measurements and courses check out perfectly to a tack drove in
the old tree at 8° 46' variation. from which true stone corner, the corner post
of a fence owned by Mr. Lyster, bears R.E. 1 1/2 feet to the side of the post, showing
that Mr. Lyster has his fence a little over the line.

May 24th 1909. Same tools. Morris Cummeth and Curo chaining,
Curo transit. Mrs Cummeth, R. N. Hale, E. Matzgen, axmen: Going to the

1/4
7-8

7-8-17-18

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Sections 4-5-8-9

Corner of Sections 4-5-8-9. I find an oak stake set for the true corner by Curo and Hallett and I take new bearings as follows: Green Jack pine 12" N-56° 58' N. 34 feet to tack head; Green Jack pine 11" N-52° 13' N. 47.33 feet to face of figures; dead Jack pine stump 10" L. 31° 44' E. 8.95 feet; Run West at 9° 30' variation, at 300-600-900-1200-1320 feet set small wood pins; at 1322.75 feet set hub; at 1329.90 feet set pin for temporary 1/4 corner; at 2659.80 feet set stake for temporary 1/4 corner between Sections 5 and 8, at which point the notes call for the following trees: Norway Pine 15" N-50° 30' N-33 links; White Pine 30" L. 61° 45' N-53 links. All seem to be gone and we continue West; at 3989.70 feet set temporary 1/4 post; at 4105.70 center of Maud D.O. R. bears N and E; at 5181.70 set hub; at 5256.70 set hub on East bank of Norway Brook; at 5260 enter river; at 5471.70 set small stake West of river; at 5473.40 drove hub.

5-8 1/16-1/4

May 25th 1909 continue West. At hub 5473.40 we turn 90° angle and offset North 150 feet, and set up benchmark. Then from hub 5473.40 we continue West; at 7273.40 set hub and offset 150 feet North, back sight on first offset and continue West 150 North of our first line; at 7443.40 we offset 150 feet more to the North and run West 300 feet North of our original course; at 10532.40 the true South West corner of Section 6, and the N.W. corner of Section 7 bears South 280.90 feet.

5-6 1/4

May 28th 1909. Beginning at the iron pin set for the true 1/4 corner between Sections 5 and 6 run North at 8° var. Hand E. Transit. 500 foot steel tape; Curo Transit man; Curo and Earnest Malgreen chaining perfect; Jim Parsons axman; at 500 feet set pin; at 420- center of 4 foot ditch, water runs West; at 600 feet set stake; at 849.60 set hub; at 900, 1200, 1500, 1800, 2100, 2400 feet set stakes; at 2668.40 feet the true N.E. corner of Sec. 6 and N.W. corner of Section 5 bears East 55.40 feet; at this point the Gov't notes call for a post and the following bearing trees: Norway Pine 22" N-75° E 100 links; Black Pine 6" N-7° N. 153 links; Norway Pine 24" L. 83° N. 25 links; Norway Pine 18" L. 87° E. 66 links; I set the true section corner from the stump of the old R.E. bearing tree at 8° 46' variation, measured from the face of the figures; with transit on the true corner old 737 stump bears L. 87° E 43.56 feet; a tack in the same stump bears L. 86° 53' E. 43.56 feet; a tack in a pitch pine stump, bears L. 1° 12' E. 16.83 feet at 8° 46' variation; Continuing back; at hub 1800 we run East 37.37 feet to the true line; at hub 849.60 we measure East 19.64 feet and set stake on true line; Curo Transit man; Geo Wagner, McCrummett, chairman; Jim Parsons and Earnest Malgreen, axmen; Dan Malgreen and I go to the 1/4 on the West side of Section 6- 137-29 where we put up a tall flag, then run back with Auto to the 1/4 corner between sections 5 and 6 where I set up the transit which I focus on the tall flag one mile West and run a line of stakes West to railroad track.

5-6 1/4

May 29th 1909 - With transit set on the 1/4 corner between sections 5 and 6 I back sight transit on flag at 1/4 corner a mile West and run East; I have Crummett set a line of stakes over a quarter of a mile East, as a preliminary line to show about where the center line of Section 5 will come.

Sections 20-21-28-29 19-20-27-30

Beginning at the corner to sections 20-21-28-29, previously established by Curo, we run West on 8° 20' variation; at 1320 feet set hub; at 3960 feet set hub; at 5280 feet set stake; at 5284.00 feet set stake; at 5286.00 set hub, at the corner to sections 19-20-29-30. Gov't notes call for a post and the following trees: Aspen 8" N-67° E. — — ; Aspen 7" N-17° N. — — ; Aspen 9" L. 22° N. — — ; Aspen 7" L. 33° E. — — ; No distance given; all are gone; at the 1/4 corner between sections 20 and 29, Gov't notes call for: Aspen 10" L. 15° E. 21 links; White Oak 6" N-48° E, 25 links; all are gone;

14 20-29

From hub 5286. we continue West; at 5288 set hub; at 5679.70 set hub; at 5996.40 feet set hub; at 6514.30 set hub; at 6850 enter open marsh; at 7360 leave marsh; at 7480 feet set hub; at 7697. cross old road-bears N. E and L. N.; at 7856.30 set hub; at 7870 enter swamp; at 7914. culvert site; at 7970 leave swamp; at the 1/4 corner between sections 19 and 30, Gov't notes call for a post and the following trees: White Pine 6" N-57° N. 18 links; Norway

14-30 1/4

Sections 19-30

pine 9" R. 71° N. 56 links: We found the C.N. tree standing plainly marked, and the stump of the N.W. tree plainly marked from which we set the corner by flat measurement from face of the marks, after which they stand as follows: 8° 45' variation assumed as a meridian: White pine 6" N. 44° 2' W. 1188 feet to the tack head drove in stump: Norway pine 9" R. 71° 22' N. 36.96 feet to a tack. We set new bearings as follows: Tack in old White Pine stump bears N 64° 37' W. 19.57 feet: Beginning at hub 7856.30 we chain first 100.70 feet to hub 7957. at which point the true 1/4 corner post just set bears North 49.50 feet.

A. N. Waudater, Trausitman

Beginning at the 1/4 corner between Sections 19 and 30, run first on 8° var.: at 146 cross wire fence: at 375 old road bears Naud R.: at 484. feet set hub: take stadia reading across swamp: 940 added to 484 equals 1424. feet to hub over swamp: enter small sand hill, contains plenty of sand to grade road across swamp: at 1635 enter South end of swamp lake which we cross 50 feet North of South end: From hub 1424 we take stadia reading across swamp lake: rods reads 65.7 added to 1424 makes 2087 to hub over swamp lake, 90 feet West of lake: at 2385 feet set hub: at 2600 set stake: at 2614 feet the true C.N. corner of Section 19 and the N.W. corner of Section 30 bears North 6:70 feet: at this point the old notes call for a post and the following bearing trees: White Pine 14" N. 65° E. 68 links: White Pine 18" N. 37° W. 105 links: Spruce 13" R. 33° W. 47 links: Pine 12" R. 39° 38' E. 61 links: We find the post and three of the old bearing trees from which we establish a new post for the true corner by proportionate measurement: The distance between the N.W. and R.E. trees we find 8 feet short, and after setting the post the old trees stand as follows: White Pine N. 35° 22' W. 68.03 feet: White Pine 14" N. 64° 40' E. 44.88 feet: Pine 12" R. 38° 48' E. 39.53 feet to tack heads drove in old trees. Variation 8° 45'.

Sections 19-20-29-30

April 25th 1910. John N. Curo Trausitman, Geo. Newman, Will Newman, Noah Ritchie axmen and chainmen: going to hub no 7957 feet West of the corner to Sections 20-21-28-29- we find that the 1/4 corner between Sections 19 and 30, bears North 49.50 feet: To fix the corner to Sections 19-20-29-30 as to East and West I find the total distance from the section corner, West to the 1/4 corner to be 5283.96 feet, plus 2640. feet making 7923.96 feet. Goint chain is 7957. feet my chain: This shows the line to be 33.04 feet longer than Goint chain, so at Hub 5284 I chain West 22. feet to hub 5306 at which point I place a hub which fixes the position of the corner to Sections 19-20-29-30. as to East and West and place a hub marked "O.O."

14

April 26th 1910. Curo Trausitman: N. Ritchie: Chas Jokla, Ralph Tillen, Lawrence Rusch, axmen and chainmen: We correct up the line along the South side of the R. 71. 1/4 of Section 19. I drive good solid hubs that mark the road center along the section line and set tall stakes well into the ground: Setting Transit on the East and West corrected hub 5306 feet West of the corner to Sections 20-21-28-29 run North on 8° variation: at 1008 center of road bears East N.: at 1672 feet set hub: at 2234.80 set hub: at 2640 set hub: at the 1/4 corner between Sections 19 and 20, old notes call for: Spruce 26" N. 65° W. 16 links: Spruce 10" N. 36° E. 35 links: all are gone and we continue our line: at 2727.60 feet set hub: at 3188.30 set hub: at 3457 set hub: N and E Transit. 300 foot tape.

20-21-28-29

17-18-14-20

14

April 27th 1910. Geo. Newman, N. Ritchie; C. Jokla, R. Tillen, L. Rusch: assisting Curo run Transit: Continue North, 3750.00 enter big meadows: at 5400 set hub in meadows 50 feet East of solid ground: We look for the corner to Sections 17-18-19-20. where Goint notes call for Aspen 8" N. 16° E. 30 links: Aspen 12" N. 25° W. 44 links: Aspen 12" R. 73° N. 30: They are all gone and we continue North: still in meadows at 7400 leave meadows: at 7800. set hub: We look for the 1/4 corner between Sections 17 and 18, where the

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7-8-17-18 notes call for; Norway pine 16"-R-18°N-40 links; Black pine 6"-R-39°E-121 links; All are gone and m continued; at 8740. set hub west of the lake; at 8900 N.W. corner of Little Lake; at 10631.70 feet set hub; the true corner to sections 7-8-17-18. bears west 230.85 feet. The corner is a sharp stone just inside the corner of a fence.

August 21st 1910. Geo Kuoman, J. Ellis, Jas Fokla, axman and chainman; Beginning at hub "O.O." set 5306 feet west of the corner to sections 20-21-28-29- and 2651 feet East of the 1/4 between sections 19 and 30, and 10631.70 feet south of the corner to sections 7-8-17-18. m run south nearly in line with our cut out line running north.

7-8-17-18 Curve South on 8° variation; at 1721 feet bribe tack in green oak stump; at 1760 cross trail bear E and N; at 1800 set hub; at 2100 meter west of; at 2200 leave same; at 2530 cross road bearing E and N; at 2616.45 set hub; at 2626.30' cross mine fence, bears E and N; at this point m look for the 1/4 corner between sections 29 and 30, where front notes call for;

17 Aspen 10"-R-26°N-20 links; Aspen 14"-N-12°E-58 links; All are gone and m continue south; at 2800 set stake in a rod meadow; at 3157.20 set hub; P.N. Dalton, Kelley, woods in place of J. Ellis; Continue South; at 3345.40 set hub; at 3800 set stake in field; at 4000 set stake in south edge of field; at 4052.90 set hub about 50 feet west of mine fence; at 4052.90 set hub about 50 feet west of mine fence; at 4290 cross road E and N; at 5236.50 set hub; at 5236.50 cross mine fence; at 5261.50 road center, E and N; at 5280, set hub; m look for the corner to sections 29-30-31-32- where front notes call for;

29-30-31-32 Aspen 10"-R-24°E-53 links; Aspen 12"-N-22°N-50 links; Aspen 14"-R-45°N-36 links; Aspen 14"-R-53°E-10 links; All are gone and m continue South; at 5891 feet set hub; at 7326 set hub;

17 September 14th 1910; Harry R. Todd, chainman, J. Ellis, Luro and Geo. Kuoman, axman and chainman; Beginning at hub 7326 m continue line South; at 8079.90 set hub; at 8557.80, set hub; at 9035. tack in green oak stump; 9100 meter open meadow, E and N; at 9680 the North end of a mine fence running South, is East 20 feet; 9900 leave meadow; at 10093.70 set hub; at 10355 intersect road center, bears E and N; at 10365; set hub South of town line road;

31-32 At the 1/4 corner between sections 31 and 32, front notes call for Aspen 16"-N-75°E-125 links; Spruce 12"-R-68°N-19 links; All are gone; at the P.N. corner of section 32, - and the P.E. corner of section 31 old front notes call for a post and the following trees; Sassafras 5"-N-64°-30°E. - - Yellow Pine 20"-N-24°N-229 links; I found a 14" inch green white pine tree standing, marked for a new bearing tree by Mr. D.D. Bartlett or some other surveyor, but I am sure this is a mistake because the post should be 200 feet farther South;

31-32 September 15th 1910. Todd, chainman, Luro and Kuoman chainmen, Haud E. Trausset 200 foot steel tape, Plumb bob line; m attempt to locate the corner to sections 31 and 32 on the South line of Twp 137. Range 29, by going to the P.E. corner of section 32, where front notes call for a post and the following trees; Yellow Pine 16"-N-78°30'E-100 links; yellow pine 21"-N-25°45'N-19 links; m find both of the stakes plainly marked from which m set the true corner from face of the trees, after which a tack driven in the old tree bears N-24°4'N-12.54 feet; a tack in the N.E. tree bears N-79°14'E-66 feet, at 9° magnetic variation. after setting a good hub and tack at this corner m run West along the grade of road at 6° variation,

4 which I am sure will bring us too far North, but as the road is an easy place to run our line, m will "try it"; at 1125 feet set hub on hill; at 1320 feet set hub; at 2640 set hub; at the 1/4 corner on South side of section 32, front notes call for; Sassafras 10"-N-9°45'E-101 links; Sassafras 12"-N-84°-30°N-103 links; All are gone and m continue West; at 3228.60 set hub in road center; at 3960 set hub; at 4358 leave meadow; at 5280 set hub; at 5400 set pin 4 feet East and 2 feet South of our hub No 10365; set coming from the North; at 5477.20 set hub on side hill; at 5715 set hub; at 6200.40 set hub;

37 m quit this line for a few days. September 16th 1910. Haud E. Trausset, 200 feet chain; Harry R. Todd, chainman, J. N. Luro and Geo. Kuoman chainmen, J. Ellis and J. H. Bellider, axmen; Beginning at iron pin set for the true corner to sections 27-28-33-34, m start the survey of a judicial road by running South on 8° 30' variation; at 600 feet set hub; at 1320 feet set hub; at 1567.55 set hub; at 1600 set pin, in open meadow; 1950 meter Beaver dam bearing E and N; 20 feet East of head of a ditch; at 2000 set pin 20 feet South of Beaver dam; it is 20 feet East and 30 feet West to solid land; thence South across big meadow; at 2200 set pin in meadow 60 feet East and 20 feet West of solid land; at 2300 intersect NE point of road land coming up from the R.N.; at 2350 set hub on point; at 2400 set pin, in big open meadow; at 2600 set hub in meadow, 30 feet East of solid land; at 2675 a quarter post set by Mr. Foble of St Paul 8 years ago, sets 10 feet West;

27-28-33-34 at the 1/4 corner between sections 33 and 34 front notes call for Sassafras 7"-R-84°N-

17 33-34

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73 links: Lamanack 5" N 56° E - 213 links: These trees were gone when Mr Fouble set this corner, and his post may have been moved; continue South. Fred Houghtaling worked in P.M. at 2900 pcy in meadow 30 feet east of solid land; at 2850 touch point of solid land coming up from the West: at 2900 m are 30 ft east of solid land: at 2990 set pin in big meadow 100 feet of solid land: at 4050 leave meadow: at 4200 hub on hill; at 4206 cross road and Mr set 4260 cross road; bears N.E. and S.W. at 4630 hub in field; at 4755.20 set hub in field: in front of Peter Goodwin house; at 5280 set hub for temporary R.E. Corner Section 33 and R.N. Corner Section 34, where I set notes call for: Pine 12" N 65° E, 230 links; Pine 20" N 110° W. 643 links: Both are gone and never were found.

33-2

Mr Fouble, C.E. of St. Paul set an iron corner at this point but it may have been moved. So we decided to "run in the corner". Mr Peter Goodwin says that this iron corner set 8 years ago by Mr Fouble is correct. And when I asked him to show me the bearing trees Mr Fouble used in locating the corner he took me to the West side of the meadow and pointed out an old blazed line tree. He said Mr Fouble had gone East half a mile, and run West and had never found any bearing trees. So we pass his corner up and will begin in the morning to properly locate this corner.

33-3

September 17th 1910. Camp crew and tools: Begun running at the R.N. Corner of Section 33, previously established by me, in run East on 8°-50' variation; at 879.10 set hub; at 1024 a 4x4 post sets North about 6 feet in the center of the West end of a piece of newly graded road, which appears to be of the true line; at 1320 hub on grade. The grade is 9 feet wide and bears S.E. at 1400 set stake, cross center of grade; at 2000 set hub; 33 feet North and 25 feet east of the East end of grade; at 2400 set hub: at 2575 enter land swamp; at 2640 set hub: The true 1/4 corner on South side of Section 33; the notes call for: Lamanack 8" N 40° E - 26 links; Touch 7" N 27° 30' W - 28 links: Mr find both old trees in the swamp plainly marked from which Mr

1/4

33

Luffman has set a 4x4 post in the center of the road for true 1/4 corner: after checking up on this and finding it correct, we continue our transit line East, the king up on this and finding it correct, we continue our transit line East, just as it looks without setting over to the 1/4 post: at 3030 leave swamp: at 3600 hub on hill: at 3719.70 the true N.E. corner of Section 5-136-29 bears

5

136-29

South 14.60 feet: at this point the I set notes call for: White Pine 20'-5'-32" N. 14 links: Norway pine 10" S. 31° E - 112 links: We find the stump of the R.N. tree standing plainly marked and the root of the R.E. tree from which we check up on a 4x4 post, by flat measurement from face of the trees, and find it correct. At this point a graded wagon road runs South: Continue on line East: at 3719.70 set hub; at 3960 set hub; at 4260.40 set hub; at 4684.40 set hub: at 4976. set hub; at 5006, center of old main road bears N. and S.

September 18th 1910 - Same crew, continue East: 5100 enter North South of marsh; at 5280 set hub in marsh: at 5300 leave marsh: at 5615 cross road N.N. and R.E. at 5675 set hub: at 6090 cross road N and R: at 6222 cross road N.E. and S.W.: at 6400 set hub: at 6440 center of a new piece of road, bears N and S. at 6540 foot of hill, enter swamp: 6600 set hub: at 6850 enter meadow: at 6940 leave same: at 7025 set hub on ridge: at 7040 enter open meadow: 7800 leave meadow: at 7920 set hub on beaver dam, bears N and R: at this 1/4 on South side of 34, the notes call for dead pine 11" N 15° E - 50 links, dead pine 10" N 89° W - 77 links: At this point we find an iron 1/4 post set 8 years ago by Mr Fouble which bears R. 6° 9' E - 52 feet: We check up on some old stumps, and find that if Fouble set this from old bearing trees he did not set it right, as the only stump there which could have been marked, shows Foubles stake too far South, and not far enough East so we ignore it and continue our line: at 8150 enter meadow: at 8780 leave meadow: at 8900 set hub: at 8909.85 the NE corner of Section A 7-136-R 29, sets South 56.30 feet, at this point the notes call for Black Pine 9" R. 58° E - 160 links: Black pine 10" R. 6° W. 333 links: We find both old trees, but the R.N. one seems to be too far away so we pass them up for the present and continue East: at 8976 set hub: at 9603 tack in log: at 10173 tack in center of big tie in R.R. center: at 10560 set hub, temporary R.E. Corner. Section 34, I set notes call for pine 10" N 80° 15' E - 76 links; Pine 10" N 25° W - 54 links: at this point we find what we think is the old bearing trees, we also find another one of Foubles iron corners, being a piece of an angle bar, but it seems to have been moved too far R.N. so we pass it up and continue East.

October 19th 1910. At 11449.25 set hub: at 11880, set hub: at 12110 cross old road N and R: at 12510.40 set hub: at 13200 set hub: The true 1/4 corner on South side of Section 35, bears S 13° 50' E - 92.45 feet, or 22 feet East and 89.40 feet South. At the 1/4 on South side of Section 35 the notes call for: yellow pine 15" N - 19° E - 94 links: yellow pine 24" N 27° 15' W - 106 links: We find both stumps standing plainly marked from which we set the

4

136-29

34

35

Survey Record No 156

1/4	<p>true 1/4 Corner. I have been here before and can identify these stumps. Sept. 21st 1910 - Harry R. Todd and John W. Curo Krausmen and chairman; Jim Ellis, Geo. Nuoman, John Abelider, Fred Houghtaling, axmen. To correct up the line; At the R.E. Corner of Section 34 we find the old Groat bearing trees from which we establish the true Section Corner with new bearings as follows: Jack pine stump 75°-713°-30' E. 67.35 feet; Green Jack pine 8°-N. 45°-36' N. 139.90 feet; to tack head drove in the bearings, at 8°-58' variation; With transit on hub 10560 the true corner just set bears S. 13°-31' E. 73.96 feet. We find the total run of 2 1/2 miles to be 22 feet longer than the Groat chain, and the first half mile to be 1.50 feet longer than Groat chain; 13200 ft. Groat chain = 13222 feet my chain, and 2640 feet Groat ch. = 2641.50 ft my chain. Hub 10560 goes East 16.50 ft to hub 10576.50 then South 69.10 feet to the true corner; at hub 8989.85 the true N.E. Corner of Section 4 - T-136 - Range 29 - sets South 56.30 feet; at this point we establish the true corner from old Groat bearing trees by flat measure from face of the figures after which one old tree bears S. 51°-23'-E. 108.60 feet. Another new tree marked "W.C." bears S. 50°-53'E. 111.2 feet; Another new tree bears S. 7°-45'-N. 240.90 feet; I make another new bearing tree N-64°7'N 52.03 feet to tack heads in all of the trees.</p>
34-35	
4	
136-29	
W.C.	
1/4-4	
136-29	
33-34	
33-34-35	
137-29	
27-28-33-34	
33	
137-29	
27-28-33-34	
33-34	
4	
134-29	
114	
32-33	
28-29-32-33	

At hub 6314.77 we run South 36.39 feet and drive a wood stake for the true 1/4 corner on N side of Section 4 - T-136 R-29 with new bearings as follows: Jack Pine 1/2 S. 59°-46'-E. 20.68 feet; Jack pine stump 10° S. 17°-45'-N. 26.71 feet at 8°-45' variation; at hub 5280 we run East 5.50 feet to station 2644, then South 28.49 feet where we drive a wood stake for the true corner to Rect. 34 from which the iron post set by Mr. Jencks bears North 8°30 feet and West 2.10 feet.

September 22nd 1910. Same crew: To correct the N and E. center line between Sections 33 and 34 - T-137-29; setting transit on hub No 5280 S. the true S.E. corner of 33 bears S. 54°-26' N. 29.90 feet; we run South 24.70 feet and set hub 5304.70; then West 16.85 feet to the true corner just set; we correct the line a whole mile North to the corner to sections 27-28-33-34. At 2640. we chain South 12.55 to 2652.35 then West 8.42 feet and drive a post for the 1/4 between Sections 33 and 34.

September 28th 1910. Todd, Curo, Ellis, and Alf Olson worked. We find that the N.W. corner Section 4 - 136-29 is 1078.20 feet East of the 1/4 corner on the South side of Section 33-137-29 and that it sticks over into those 137-29, a distance of 1.87 feet. As this can not be allowed, the true corner will have to be put 1.87 feet south of where the old Groat bearing trees locate it.

At the corner to Sections 27-28-33-34 - 137-29, we pull up the iron corner, previously set and put an 8x8x36 inch cement post in its place for the true corner. At the S.W. corner of Section 34 and S.E. corner of Sec. 33-137-29, we pull up the wood stake and put in its place an 8x8x36 inch cement post for the true corner.

At the true 1/2 corner on the North side of Section 4 - T-136, R-29, we pull up the wood stake and put in its place a cement post 8x8x36 inches in size for the true 1/2 corner. At the S.W. corner of Sec-33, and the S.E. corner of Section 32, we pull up the wood stake and put in its place a cement post 8x8x36 inches in size for the true corner.

Going to the corner of Sections 28-29-32-33 - 137-29, Groat notes call for Tack 6, "N 50°30' E. 56 links. Tack 10, "N 41° West. 50 links. Tack 9, "S. 50° N. 31 links. Tack 10, "S. 77° E. 46 links. We find all the stumps of the trees standing plainly marked "B.T." from which we set the true corner by proportionate measurement: the distance from the S.E. to the N.W. stump is 115.44 via courses, over length, and the distance via courses between N.E. and S.W. stumps, is 0.40 feet over length. We set an 8x8x36 inch cement post for the true corner.

Sept. 24th 1910. Curo and Todd and Alf Olson set an 8x8x36 inch cement post for the true

Survey Record No. 156-

19-30 137-29	S.W. corner of 19- and the new N.W. corner of 30. T. 137-R-29 on the Range line at a point previously established by Curo.
32	Sept. 25 th 1910, Curo, O. Olson and H. Olson pick up our old line at hub 6200.40 feet west of the R.E. corner of Rec. 32-137-29, we continue west: at 6956 feet we cross graded road at a point where it turns sharply S.W. at 7200 set stake.
Twp Cor SW 137-29	Sept. 27 th 1910. Todd runs transit in A.M. and Curo in P.M. continue west: at 7287.80 set hub: at 7890.50 tack in log: at 7904.30 hub: at 8238.50 tack in big 6 inch hub: at 8949.85 set hub: at 10560 set hub and run south: at 342.70 the true N.W. corner of Twp 137-29 bears East 12.95 feet: at this point soil notes call for Pine 11"-N 21° E. 34 links: Pine 12"-N 34° 15' N. 39 links. Mr. B.B. Bartlett found both of these trees 12 years ago from which he set the true corner, then established a new bearing tree as follows: Pine 22"-N 49° E-104 links: We set an 8x8x36 inch cement post for the true S.W. corner of Rec. 31-T. 137-R-29 from the bearing tree (Bartlett made) at 8°-45' variation: Then by measuring N. 34° 15' N. 39 links, we find the old soil bearing tree stump plainly marked "B.T."
31	Sept. 28 th 1910. John N. Curo Transitman, Harry R. Todd and Ole Olson chairmen, Hyalmer Olson axman: We find the old bearing trees to the 1/4 on the South side of Section 31-137-29, going to hub No 5280 west near the S.W. corner of Rec. 32-137-29, we run south on 90° angle from our transit line and at 210.75 feet the true corner sets East 2.10 feet, go at a point 5279.90 feet west of the R.E. corner Section 32-137-29 the true S.W. corner of 32 sets South 210.75 feet from our preliminary line. At the S.W. corner Rec. 32 and R.E. corner 31, 137-29, soil notes call for a post and the following bearing trees: Laurel, 5"-N 64° 31' E. 57 links: Yellow pine 20"-N 24° N. 229 links. We find the old stake nicely marked, but well preserved, in the evening we also find the stump of the old Northeast bearing tree plainly marked: We find the old yellow pine called for in the notes, but it is down: measurement of courses check out perfect, from the stake to the old bearing trees. We pull up the stake and put in its place an 8x8x36 inch cement post, set well into the ground for the true corner.
117 31-32	Going to our hub No 10093.70 Q, on our old North and South preliminary line run Sept. 14 th 1910, we chain South 106.30 feet and at 10200. set pin: Continue South: at 10581.65 the true South west corner of Section 32-T. 137-29 bears East 119.30 feet. Showing the total distance as measured by us from the corner to Sections 7-8-17-18- South to the S.W. corner Rec. 32 is 10631.70 added to 10581.65 makes a total of 21213.35 feet. The corner Rec. 32-137-29 is about 220 feet South of the main graded wagon road.
32 31-32	Sept. 29 th 1910. Ole Olson and team, Geo. Newman, Harry Todd and Curo. Begin at the stone corner to Sections 28-29-32-33-T. 137-R-29, and run west along the road at 8° 20' var: at 238 culvert: 700 leave swamp: 1030 culvert: at 1320.66 feet set hub, temporary 1/4 corner at 1500 set hub on hill: at 1900 enter meadow: 2340 culvert: at 2641.22 set hub for temporary 1/4 corner: The old corner is gone: at 3071.15 set hub on hill: at 3385 culvert: at 3635 culvert: at 3961.98 set hub: at 4430 culvert: at 5147 culvert: at 5282.64 set hub: at 5613 culvert: at 5888 culvert: at 6200 big rock: at 6602.64 set hub: at 7306 culvert: at 7447. set hub: at 7922.64 set hub: The old soil 1/4 corner is gone: at 8713 culvert: at 9242.14 hub: at 9896 culvert: at 10575.78 set hub for temporary Section corner: The true corner sets 26.65 feet west, and 5.70 feet South. Total length 10542.43 feet: At this point, being the S.W. corner of Section 30, and the N.W. corner of Section 31, 137-29 soil notes call for: Dead Pine 22"-S. 27° 15' N. 35 links: White pine 36"-S. 53° 45' E. 204 links. We find both trees standing, the R.E. tree plainly marked from which we set the true corner by flat measure from face of trees, after which the courses check out perfect, at 8° 30' variation. We set 8x8x36 inch cement post well into the ground for the true corner.
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31-32	
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28-29-32-33	
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20-31	
20-31	
20-31	

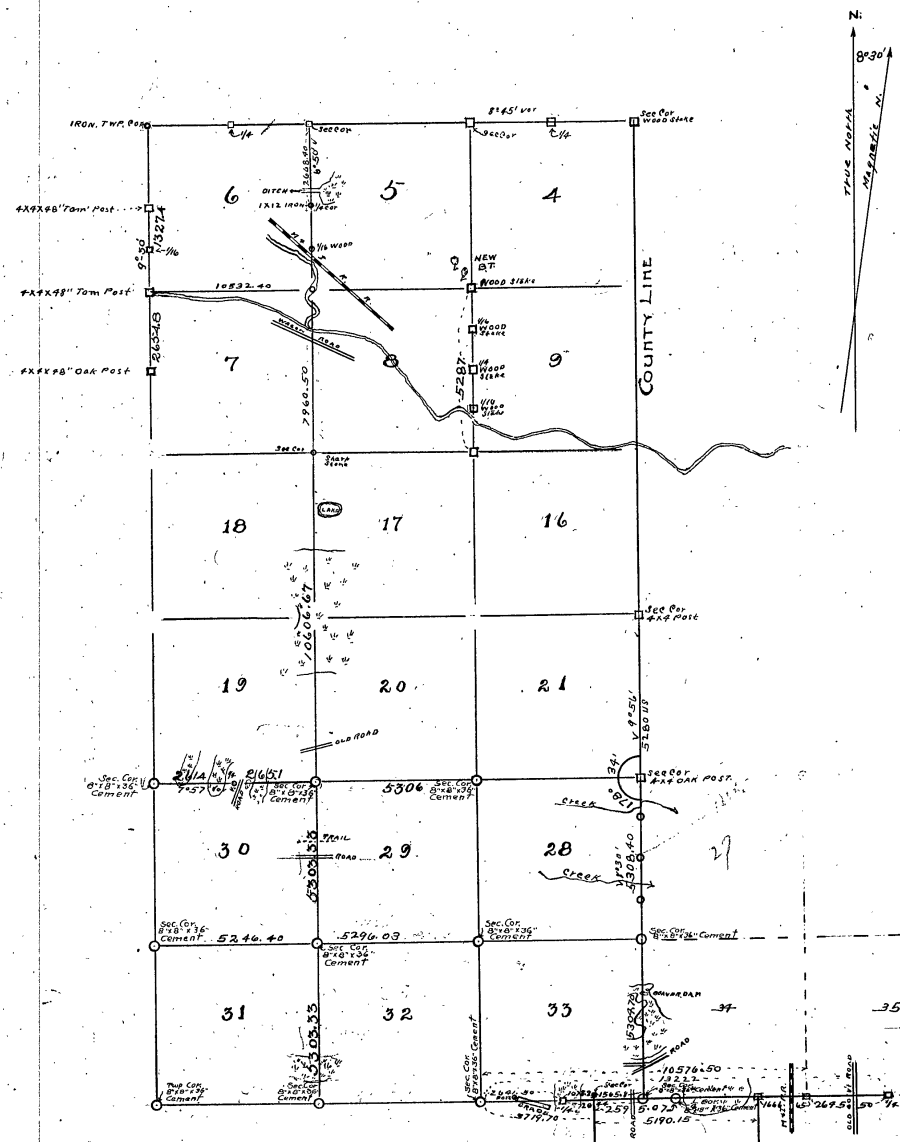
PLAT OF

TOWNSHIP No 137ⁿ RANGE No 29^w

5th PRINCIPAL MERIDIAN

SURVEY RECORD NO-156-

SEE PAGE 318- FIELD NOTES



Sec Cont'd To Page of Book	
4	315 A
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Survey commenced Mar 30, 1906
 finished Aug 15, 1911
 recorded Nov. 9, 1911

John W. Curran, Co. Surveyor
 Cass Co. Minnesota

5282.64 added to 5233.14 equals 10515.78 feet Isovit chain we find to be 26.65 feet my chain or 10542.43 feet my chain.

4 miles

Sept. 30th 1910. Todd and Auro. Connecting the line we go East to hub No 5282.64 and chain met 13.39 feet to hub No 5296.03, which fixes its position as to East and West, then as to the 4 miles Naud R; we find it 93.35 feet over length, each section would be 23.34 feet longer than Isovit chain. Setting transit on hub 5280 feet South of station O.O. we chain North 1.69 feet which fixes the position as to Naud R. From hub 1.69 we run East 40.90 feet intersecting the point for the true corner 11.10 feet South of hub 5296.01 at which point we place an 8x8x36 inch cement post for the true corner to sections 29-30-31-32, T. 137-29.

29-30-31-32
137-29

We establish the true corner to sections 19-20-29-30. We begin at hub "O.O." and chain North 25.02 feet where we place an 8x8x36 inch cement post for the true corner to sections 19-20-29-30, T. 137-29.

19-20-29-30

20-21-28-29

Going to the corner to sections 20-21-28-29, T. 137-29 we dig up a iron pipe previously set by me for the true corner and put in its place an 8x8x36 inch cement post. At this point the Isovit notes call for Jack pine 10" N 45° E. 34 links, Norway pine 20" R. 45° E. 26 links. The old trees once stood, perfect, for measurement but the N. Naud R. E trees were not quite right for courses, but as measurements told our courses I establish the true corner by flat measurement from the face of the old trees. The stumps are still standing, and are as follows: Stump N-42° 5' N- 34.32 feet. Old stump R. 53° 39' E - 17.16 feet. Old stump N-45° E. 22.44 feet. We set new bearings as follows: Jack pine 5" N-26° 17' E-111.30 feet. Jack pine 5" N-47° 35' N- 68.80 feet to tack heads. at 8°-50' variation.

20-21-28-29:

Aug 27 1909

Geo Newman and Cues work all P.M. At the corner to sections 20-21-28-29, 137-29 Notes call for: B.P. in 10 N 45° E 34 links NP in 10 N 49° 10' W 52 links. NP 20 S 45° E 26 links We found NW 37 stump plainly marked and SE stump with figures gone but I remember the stump perfectly. From these two stumps we set an iron gas pipe for corner by flat measure from face of stump after which they stand as follows: NP stump 10 N 41° 50' W 34.32 feet 15 links. NP stump 20 S 55° 12' E 17.16 feet the north of the NE B.T. check out perfect for course and distance. All courses run from the true meridian.

Recorded Vol 47 10 11
John W. Cues, Co Surveyor
Class Co. Minnesota

-NOTES-

Sec	Cont'd To Page of Book
4	" " 514 " A
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Field notes of the Survey of Sections 31 and 32. Township 140-N Range 31-W 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass County, assisted by Harry C. Todd, Deputy County Surveyor of Cass County, Minnesota.

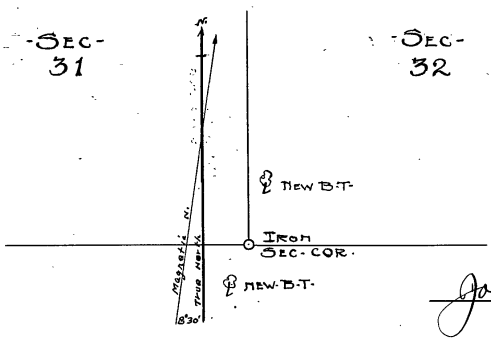
Oct. 15th 1908, John W. Curo transitman, John Luiten, John Haney, Ed Luiten, axmen and chainmen. We use a Stueffel and Esser engineers transit and a 90 foot Chicago steel tape. At the South east corner of Section 31 and the South west corner of Section 32, Twp. 140-N. Range 31-W. 5th Principal Meridian call for a post and the following bearing trees: Norway pine 20 inches in diameter, bears N. 87° E. 95 links distant; Norway pine 8 inches in diameter, bears S. 53° E. 92 links distant; Black Pine 6 inches in diameter, bears S 58° W, 59 links distant. We found both of the Norway stumps, the trees having been sawed down but the "B.T." marks were plain. The South west stump, did not have the slightest sign of having been marked, not even a depression in the good plain bark, and the top of the short stump, showed no signs of any one ever having chopped into it, but when we chopped in, the "B.T." was there, very plain. The Jack pine was gone, but the mound where the roots had been was in evidence. We set a 4 x 4 x 48 inch oak post for the true corner, by flat measurement from the face of the bearing tree marks, after which the trees stand as follows: at 8°-46' variation: Norway pine stump, bears N. 89°-45' E. 62.70 feet to a tick head drove in the stump; Norway pine 8 inches in diameter bears S. 51°-18' E. 60.70 feet to a tick head drove in the stump; Courses taken to the heart of the stump but the measurements to the face of the old marks. After setting our 4 x 4 x 48 inch oak post for the true corner we made new bearing trees as follows: Poplar 4 inches in diameter, bears N 1° 8' E, 22.38 feet distant; Dead poplar 4 inches in diameter, bears S. 73°-30' W, 22.30 feet distant; measurements taken to tick heads drove in a flat spot in the trees.

August 15th 1911. Harry C. Todd transitman, Ed Luiten and Ralph Holden, Art Holden axmen and chainmen. Use a Stueffel and Esser transit, and 300 foot steel tape, Pull up the wood stake set by Curo, at the South east corner of Section 31, and the South west corner of Section 32, Twp. 140-N. Range 31-W, and put in its place a 2 x 48 galvanized iron post, set in a bed of cement for the true corner after which they take the courses and measurements to Curo's old bearing trees and the old wood bearing trees and find they stand perfect for course and measurement.

All courses turned from the true meridian
Recorded November 4th 1911-

Survey begun Oct 15th 1908
" finished Aug 15th " 1911
" Recorded Nov 4th " 1911

- PLAT - T-140-N R-31-W 5th P.M.
SURVEY RECORD- No 157-



John W. Curo
County Surveyor Cass Co Minn

Field notes of the survey of a part of Township No 138^N Range 30^W and 32^W 5th Principal Meridian through Twp 137^N R 30^W 31-32.

Sections 25, 30, 31, 32, 33, 34, 35, 36 T 138^N R 31^W And Secs 25 and 36 T 138^N R 32^W
Secs 1-2-3-4-5-6-12 T 137^N R 31 Sec 7 T 137^N R 32 Secs 34-7-13-23 Secs 30-31-32-43-50

as made by John W. Curo County Surveyor of Cass County Minnesota I use a Keuffel & Esser engineers transit and a 100 foot Chicago steel tape August 19th 1908: Howard St John of Milled Minn as man: Charles Ingraham of Pine River Minn as man: Addison D. South of Pine River Minn assisting me in chaining, perfect plant 606 line set double center locks in hubs At the corner

Secs 34 & 35

35 T 138^N R 31 on the south side of said Township government field notes call for a post and the following bearing trees: White Pine 12 S 3° E 54 links: Tamarack 7 N 82° E 155 links: Tamarac 8 S 89° E 150 links: We find the S E White pine standing, green and plainly marked: and the S E Tamarac standing plainly marked but dead: The NE Tamarac is gone: we establish the true corner from the two remaining lines by flat measurement from the face of the figures and drive a 4x4x48 inch spruce post with a lock in the top from which the old trees stand or fallows: White Pine 12 stands S 4° 10' E 3546 feet: Dead Tamarac 7. bears S 88° 45' E 99.00 feet to the face of the figures, @ 8° 46' variation magnetic: this corner is on a little island in the swamp and in setting the stake we find the point of the old government stake right where we drive our true corner post from which we run west on 9° magnetic variation: at 20 feet leave island enter swamp: at 450 feet leave swamp: at 540 feet set hub on North point of solid ground on hill 9 feet high: at 630 feet enter low wet ground: at 730 feet enter swamp: at 1320 feet set hub on swamp: at 1535.90 feet set hub on solid spot in swamp: at 2100 leave swamp enter low wet land: at 2300 enter solid ground at 2436.80 feet set hub: at 2640 feet set hub: the true 1/4 corner between sections

Sec 34

3 and 34 bears 2.40 feet East and 13 feet South making the total distance 2637.60 feet: at this point being the 1/4 corner on South side of

Sec 34 T 138

R 31 old notes call for: Black Pine 9 S 77° W 148 links: Tamarac 7 N 29° W 108 links: We find the stumps of the S. W. trees plainly marked "B.T." from which we set a post for the true 1/4 corner: the old N. W. tree cannot be found tho an old down tree may have been the one but as it is two (2) feet too far away and five (5) feet too far S. W. and not marked we do not use it:

Correcting back on our line we set hub 2436.80 South 12.37 feet: 1535.90 we set South 7.56 feet: Hub 1320. we set South 6.50 feet and Hub 540 we set South 2.65 feet and quit for night

Sec 34

138-31 we run West on 9° variation: at 1275 feet enter meadow: at 1320 feet set

Sec 34

stake in meadow: at 1520 east edge of Beaver dam which bears N. & S.: at 1567 feet set hub on beaver dam: at 1580 leave beaver dam: @ 1600 leave meadow: at 2143.50

Sec 33 & 34

Set Hub: at 2640 feet set hub temporary corner to sections 33 & 34 on South side of Twp 138-31 at which point the notes call for a post and the following bearing trees: Dead Norway pine 12 N 55° E 48 links Dead Norway pine 12 N 58° 30' E 25 links Dead Balsam 8 S 47° W 31 links: live aspen 15 S 44° 30' E 294 links all appear to be gone and we continued on transit line west: at 3153.50 feet set hub: at 3580 enter tamarac swamp: at 3960 feet set stake in swamp: quit for night

Survey Record N-158

Aug 21st 1908 Bige stake 3960 continue west @ 4030 feet leave swamp at 4387.70 feet set hub at foot of slope: at 4821.90 feet set hub on top of hill about 35 feet high: at 4950 feet enter swamp at foot of hill: at 5280 feet set stakes in swamp: the line 1/4 corner on South side of Section 33-7138 R 31 W bears S 15° 52' E 25.30 feet making the total length of the line 5273 feet At this point the government notes call for a post and the following bearing lines: Tomarac N 46° E 7 links: Tomarac 2. 13 23° W 16 links: We find the SW line plainly marked but born from which we set a 4x4x48 inch lamp post for the line 1/4 corner on south side of

Sec 33 138-31. Correcting back we set Hub N- 4821.90 South 15° 52' E 22.80 feet: Hub 4387.70 goes S 15° 52' E 20.80 feet: Hub 3960 S 15° 52' E 18.97 feet where we drive a stake for the line corner to Sections 33 and 34 on the South side of Twp 138-31 with new bearing as follows: Norway Pines 5 N.W. 35.50 feet: Norway Pines 4 S W 40.68 feet: Norway Pines 10 NE 41.97 feet measured to lock heads: Correcting the line still further East we set hub N- 3193.30 South 15° 52' E 10.14 feet: Hub 1564. goes S 15° 52' E 7.90 feet Hub 1320 we chain S 15° 52' E 6.32 feet: and set line 1/16 corner

Aug 22nd 1908 Big @ 1/4 corner on South side of Sec 33-138-31 we run west in swamp: @ 9° 10' Variation: @ 1320 feet set stake in swamp: @ 1500 enter solid swamp @ 1525 feet run of 10 foot creek which runs NE: at 2250 feet center of 10 foot creek runs SE: @ 2550 leave swamp: at 2640 feet set hub @ the line corner to sections 32 and 33 on South line of Twp 138 R 31 W bears S 31° 47' W 26.24 feet making the total length of the line 2653.50 feet Correcting back we set Hub 1320. S 31° 47' W 13.10 feet where we drive a stake for the line 1/16 corner: At this corner to sections 32 and 33-7138-R 31 government notes call for a post and the following bearing lines: White Birch 6 N 21° E 39 links: Norway Pines 20 N 62° W 24 links: Norway Pines 24 S 80° W 27 links: White Pine 30 S 30° E 67 links: we find the stub of the NW line standing plainly marked from which we set a 4x4x48 inch post for the line corner. We find the root of the SW line which checks out fine for course and distance: We also find the root of the Birch but did not use it a big white Pine stump stands fine for course & E but is too close so we do not use it as it is not marked. This is at the edge of the foot hills: Run west on 9° 30' Variation through the foot hills: @ 404 feet set hub: on hill top it changes to 10° 20' at 600 feet bottom of reverse: at 962.40 feet set hub on side hill quit for night

Sec 32-33

Sec 32

Sept 8th 1908 Howard St John, A Donforth, and Daniel Murphy

axmen and chainmen. Curo, Liondman: Beginning at hub N- 962.40 we continue our transit line west: Variation registers at 10° 20': at 1188.80 set hub on hill top Variation changes to 10° 35' at 1320 feet set stake on west slope @ 1490 center of wagon road which bears NW and SE: thence up slope and across quite level ground: at 2159.60 set hub at 2640 feet set hub: the 1/4 corner on South side of Section 32-138-31 bears S 70° W 15 feet: at 2654 the line 1/4 corner bears South 5 feet showing the total length of line to be 2654 feet: At this point the notes call for a post and the following lines: White Pines 7. S 44° W. 20 links: White Pine 7. N 48° W. 4 links We find the stump of both old lines plainly marked from which we set a 4x4x48 inch post for the line 1/4 corner: Correcting back Hub 2159.60 goes South 4.00 feet Hub 1320 goes South 2.50 feet Hub 1188.80 goes South 2.25 feet Hub 962.40 goes South 1.80 feet Hub 404.90 goes S. 0.90 feet

At the 1/4 corner on South side of Section 32 Twp 138 R 31 W set from old government bearing line stump we establish new bearings as follows: the highest point on the South side of a big rock bears South 6° 44' W, 36.08 feet white pine stump N 13° 10' W 34.69 feet to a lock head

Run West @ 10° 30' Var: at 200 feet enter open wet meadow: at 1050 enter cat tail swamp at current sill at 1100 leave swamp bears N + S. Frank's Merlon Caswell assistants from here on: at 1745.50 set Hub on rise: at 1320 set hub: at 1360 center of 20 foot swamp: at 1700 cross old wagon road which bears N + S.

32

Survey Record No 158

at 2237.40 set hub on hill: at 2649.50 set hub: the true corner stands N 27° 18' west 20.50 feet: at 2649.50 the true corner stands North 18.40 feet

31-32 At the corner to sections 31 and 32 on South side of Twp 138 Range 31 government notes call for a post and the following trees: Birch 12 N 62° 15' E 32 links: white Pine 4 N 37° W 7 links: Black oak 4 S 68° 30' W 29 links: Aspen 5 S 67° E 22 links: we establish the true corner from one white Pine stump which stands plainly marked, N W, at 8' 45" variation, after which the roots of other old bearing trees stand perfect for course and distance we find the old state at the point we drive in a new one and set new bearings as follows: Red oak 8 N 41° 4' W 41.5 feet Birch 12 S 42° 16' W, 42.20 feet to oak heads: Correcting back, hub 2649.50 goes North 18.40 feet hub 2337.40 goes North 15.50 feet Hub 1320 goes N 9.20 feet

Sept 9th 1908 From the corner to sections 31 and 32 on South side of Twp 138-31 we run West at 10° dia at 276.40 set hub on hill at 651.70 set hub: at 847.30 set hub at 885. edge of little lake which extends South 60 feet and a long way North: at 1003 leave lake: at 1029 set hub by Stadia measurement from hub 847.30: at 1200 east brow of hill: at 1320 set hub on hill: at 1406.50 set hub on hill: at 1460 west brow of hill: at 1820 foot of hill-enter narrow bog N & S: at 2023.30 set hub on island in bog: at 2180 leave Island-enter lake and set stakes marked "2180" we cannot measure the lake and pass around to the west side and look for witness corner but it cannot be found.

31
1/4 written

Sept 10 1908 We begin at lake and chain West to the corner of Townships 137-138th Ranges 31 & 32nd being the S W cor of Twp 138-31 but do not find bearing trees:

34-35 Jan 22nd 1909 Geo Danforth a man: a Danforth chairman curb stevensman and chairman: N x E transit 90 foot Chicago steel tape: Beginning at the corner to Secs 34 and 35 on South line of Twp 138-31 we run East on 9° dia through swamp: at 1320 feet set hub in swamp: at 1500 leave swamp then onto sharp hill: at 1797.50 set hub on hill: at 2640 set hub for temporary 1/4 corner on South side of Sec 35 - where government notes call for a post and the following trees: Black Pine 12 S 36° W 22 links: Norway pine 24 N 66° E 73 links: we find stumps which I think are the old trees but as figures seem to be burned off we pass them up and continue on line East: at 2758.40 set hub on hill and quit for night

Jan 23rd 1909 Jake Huffman comes to help cut brush we continue East setting double center hubs - plumb-bob chained line: at 3252.50 feet set hub on hill: at 3390 feet enter swamp: at 3640 leave swamp

Jan 25 1909. Some crew continues East: setting transit on hub 1797.50 I re-run the transit line East so as to be sure it is straight: back sight on true sec cor at S W cor 35 138-31 and run East. Hub 1320 is correct Hub 2640 is O.K. Hub 2758.40 is correct: Hub 3252.50 is O.K. Geo Danforth's house is on line ahead so we offset North to miss it as follows: at Hub 3252.50 I run a 90° angle North 31 feet and set back in bog and set up back shot - continue my original transit line East and at 3960 set hub. at 4317.55 set hub on Geo Danforth's yard about 100 feet West of the house

Survey Record N^o 158

and as my line runs straight between the two brick chimneys I run a 90° angle North 31 feet and set hub, where I flood and back sight on tockset 31 feet North of hub 3252.50; transit the thescope and run East 31 feet North and parallel to my original line; at 5000 feet enter swamp; at 5280 set hub in swamp for temporary corner to sections 35 and 36 on south line of Twp 138-31 at which point the old notes call for a post and the following bearing trees: Dead Lámarae 12 N 70° E 9 links; Dead Lámarae 12 N 67° W 13 links; Dead Lámarae 10 S 43° W 57 links Dead Lámarae 9 S 1° E 8 links; We do not find the bearing trees and continue our line East 31 feet North of our original line; at 5550. leave swamp; at 6600 set hub; at 6650 enter creek bottom; at 6780 center of 10 foot creek runs North this is the west branch of Bungo Creek; At 6840 leave creek bottom; at 7920 set hub for temporary 1/4 corner on South side of section 36 T 138-31. at which point the old government field notes call for a post and the following bearing trees: Norway pine 6 N 14° W 45 links "no other trees near" We do not find the tree or stake and continue East; at 8575 feet enter swamp; at 8725 leave swamp; at 9240 set hub; at 10560 set hub being 2. mile hub and temporary Township corner to Twp 138-31 N. Ranges 30 & 31 W at which point the government field notes call for a post and the following bearing trees Black Pine 10 N 28° E 160 links Dead black Pine 12 N 34° W 115 links; Black Pine 14 S 18° W 178 links; Black Pine 7 S 26° E 191 links; All are gone and we continue East; at 10930. enter creek bottom; bears NE and SW; at 11280. center of creek runs NE

We run into Isaac Norman's shade trees and a little way house, and back off; Going back to hub 9240 we run a 90° angle North 80 feet and set hub for back shot and then at hub 10560 we chain North 80 feet and set hub upon which we set the transit and continue our line East parallel to and 111 feet North of our original line; at ~~11190~~ 11190 feet enter creek bottom; at 11460. felt center of 10 foot creek which runs NE at 11560 leave creek bottom; at 1283.70 + 10560 = 11843.70 feet set hub;

35 & 36

36

Twp Co

Jan 26 1909 same crew continues East; at 13163.70 set hub for temporary 1/4 corner on South side of Sec 31 T. 138 R 30 at which point the notes call for: Aspen 5 N 12° E 48 links Black Pine 9 S 75° W 43 links; All are gone and we continue East; at 14363.70 enter Lámarae swamp; at 14483.70 set hub; at 15100. leave swamp; at 15803.70 set hub for temporary corner to sections 31 and 32 on South line of T. 138 Rge 30 where government notes call for Black Pine 8 N 5° E 20 links; Norway pine 7 N 83° W 16 links; Norway pine 8 S 64° E 20 links; Norway pine 7 S 68° W 25 links; All are there cut-off close to the ground, except the NW stump which stands 4 feet high

Survey record N^o 158

well marked: We set a 4 1/2 x 4 1/2 x 36 inch spue post for the true corner.

January 27th 1909 With transit set on hub 15803.70 on four random lines 111. feet North of our original line the true corner to Sections 5-6-31-32. between townships 137 and 138 Range 30 just established: bears 50.60 feet East and 58.65 feet South. The total distance is 15854.30 feet or 50.60 feet longer than Government chain. A. Danforth and I have chained the whole three miles under the plumb bob and double center latched hubs. We check-chain two miles west and quit for night.

Jan 28 1909 Jake Huffman and I chaining: A. Danforth and two Danforth oxmen: We check chain the remaining mile and find it correct.

Beginning at old stake set near the corner to Townships 137-138th Ranges 30 and 31 @ marked 00. we run North on 8° variation: at 630 feet enter open slough: at 1320 feet set hub and leave slough: at 1860 enter NE corner of same slough: at 1975 leave same: at 2300 cross old wagon road bears East and West: at 2500 enter little round slough. at 2600 leave same: at 2670.00 set hub being temporary corner between Sections 31 and 36 where goat nibbles call for: Norway pine 20 N 84° 30' E 20 links: Block Pine 15 S 70° 36' W — Both are gone and we continue North: at 3085 cross old road bears E and NW: at 3200 enter river bottom: at 3360 center of 15 foot creek - runs East: at 3450 leave river meadow: at 3960 set hub and quit for night.

Jan 29 1909 Same crew continue North: at 3960 enter Tam swamp: at 4560 leave same: enter solid land and Norway pine timber: at 4900 enter big open Tamarac swamp.

at 5280 set hub: the true corner to Sections 25-30, 31, 36 Twp 138th Ranges 30 & 31 West, stands 11. feet South and 51 feet East making the length of the line 52.69 feet: at this point the notes call for: Tam 9 N 4° 30' E 552 links: Tam 5 S 76° W 212 links: Tam 2 1/2 N 39° 30' W 22 links: We find the NW and SW lines plainly marked but down: we chain out the the point of the old government stake which is a tamarac post 6 inches in diameter 18 inches long and is under water which preserves it: We set a big new post for the true corner 4 x 4 x 48 inches in size set well into the swamp.

Jan 30 1909 Beg at Stake O.O. near the same township corners we took sight telescope on the line we have just cut north and run South on 8° var: at 108.30 feet we cross our new E & W transit line 26,70 feet East of our two mile hub: at 950 enter meadow river bottom: at 1090 center of 10 foot creek runs East: at 1100 leave meadow and follow along edge of river bottom and Jack pine timber: at 1320 set hub: at 1500 enter meadow: at 1860 leave same: at 2170 enter meadow. at 2640

5-6-31-32

Twp Cr

31-36 1/4

25-30
31-36

Survey record N: 158

set hub in swamp at 2700 center of 4. road poplar and alder ridge runs E & W: at 3000 leave swamp - enter Jack pine at 3350 leave Jack pine enter very flat open land solid ground that stretches South as level as a lake to foot of big hill

at 3960 set hub in flat. at 4500 enter slough E & W at 4600 leave same: at 4860 foot of big hill @ 5100 top of big hill @ 5280 set hub: the true corner to sections 1, 6, 7, 12, 137 N Range 30 and 31 W sets 57.70 feet South and 88.20 feet East making the length of the line just run 5337.40 feet

at this point the old notes call for a post and the following trees: Norway pine 24 N 36° E 23 links; Norway pine 22 N 43° W 45 links; Black Pine 55 68° W 52 links; Norway pine 22 S 12° E 39 links; I find the old trees and the hub previously set by me for the true corner: at the 1/4 corner half a mile North between sections 1 and 6 the notes call for Aspen 7 N 79° W 57 links; Tamarac 6 S. 20° E 41 links: all are gone

176

Feb 3rd 1909 Geo Donforth and I put in the true Township corner at the corner to Townships 138-137 N Range 30 and 31 W being the SE corner to 7 138-31 as follows: As the total distance from the SW corner of Sec 35 Twp 138

Range 31, east to the SE corner of Section 31 7 138-30 of 15803.70 feet government chain equals 15854.30 feet my chain or 50.60 feet longer than the government chain. I set hub No 10560. East 33.82 feet to Hub "A" which fixes the position of the Township corner as to East and West: Then as the total distance from the corner to sections 25 and 36 138-31

South to the SE corner of Sec 1, 7, 137-31, of 10560 feet government chain equals 10606.40 feet my chain or 46.40 feet longer than the government chain, I begin at stake 0.0. and chain South 11. feet and set hub 5280.9 then 23.20 feet further South and set hub "B". Hub "A" is 10593.82 feet East Hub "B" is 5303.20 feet South and 5303.20 feet North: Siding

Twp Co

transit on hub "A" I run North 73.55 feet to a point 7.20 feet East of Hub "B" at which point I drive a small wood peg for the true Township corner to Twps 137 N 138 N Range 30 and 31 W with new bearings as follows: Aspen 4. NW. 48.90 feet: Fencil corner N. and a little West, 34.50 feet: Poplar 2. SW 24.70 feet: Jack Pine 4 SE 35.05 feet: Jack Pine 2. E ortherly and South 47.82 feet

15 lock heads drove in the bearings: Core along line between sections 1 and 36, and 2 and 35 between Townships 137-138 Ranges 30 and 31 Beginning at Hub 9240. we chain East 29.59 feet to hub 9269.50 then N 60.49 feet where we drive a small peg for the true corner with bearings as follows: Jack pine 4. SW 9.85 feet Jack pine 3 SE 13.77 feet. Jack Pine 3 N 48.20 feet 15 lock heads coming west to temporary 1/4 hub N. 7920 E we chain East 25.36 feet to hub 7945.36 East: then North 47.41 feet where we place the true 1/4 corner between sections 1 and 36 137-138-31

1736

Survey record No 158

and drive a small wood peg with new bearings as follows:
 Jock Pine 3. NW 23.93 feet: Jock pine 3 SW 17.70 feet to lock
 heads: at hub 5280 we chain East 16.90 feet to hub 5296.90
 then North 21.27 feet where we place the true corner to Section
 35 and 36 on South side of Twp 138-31 with new bearing as
 follows: Dead Tamarac 4 SE 32.67 feet: Dead Tamarac stump
 3 feet tall bears SW 37.60 feet: Dead Tamarac stump 1/2 foot tall
 NW 7.12 feet: Coming west to hub 3960. we chain East 12.68
 feet to hub 3972.68 then North 39.21 feet we place the true 1/16 post at
 NW corner of Geo Donforths farm with bearings as follows: White
 Pine 2. South 23.67 feet: Norway pine 2. west 8.10 feet to lock heads
 at Hub 2640 we chain East 8.45 feet to hub 2648.45
 then North 26.14 feet where we place the true 1/4 corner between Section
 2 and 35 with new bearings as follows: Poplar 2 NE 30.45
 feet. Poplar 30 NW 28.80 feet to lock heads
 at hub 1320 we run East 4.22 feet to hub 1324.22 then North
 13.07 feet and place the 1/16 corner with new bearings as follows
 Tamarac 5 SE 30.15 feet: Tamarac 4 NE 35.55 feet to Tack
 head Hub 3252.50 we set North 32.20 feet to line
 Hub 2758.40 we set North 27.31 feet to line. Hub 1797.50 we set
 North 17.79 feet to line:

Feb 4th 1909 Jake Hoffman, Geo and Addison Don-
 forth. N x E Transit: 90 foot tape: Beginning at the true corner
 to Section 31 and 32. on South line of Twp 138-31 we chain our
 again our old transit line west. Geo Donforth and I chaining
 at 651.70 set hub: at 847.30 set hub: at 888 enter lake: at
 1000 leave same: at 1320. set pin: at 1321.15 Hub: at
 1820 enter wet slough: at 1940 leave same: at 2023.30 old
 hub: at 2181.85 old stake in edge of lake: at 2640 pin on
 in temporary 1/4 corner: at 2975 leave lake: The witness corner
 and bearings are gone: at 3049 set hub: at 3559 set
 hub: at 3835.30 set hub: at 3960 set hub: at 3960 + 1093.62
 = 5053.62 feet set hub for temporary Twp Co to Townships 137
 and 138th Range 31 and 32 at this point the Government
 makes call for a post and the following bearing lines:

Open 10 N 25° W 34 links Open 10 S 25° W 18 links
 " 10 N 35° E 9 " " 10 S 35° E 37 " we do not
 find the lines or stake and continue our transit line straight
 west at about 175 feet set hub on hill: at 275 center of 20
 foot bridge site between two hills taken: thence along South side
 of lake: at 700 enter slough: at 650 leave same: at 700 top of
 rise: at 1150 cross old road NE and SW: at 1320 set hub
 at 1340 enter big swamp laying NE quit for night

Feb 5 1909 continue west at 1770 leave Swamp
 at 1950 feet of 20 foot hill: at 2045.30 hub on hill: thence over level
 land: at 2222 enter wall of green Jock Pine and small
 Norway cross old road where blazed line runs N x S marked
 "C road" 2640 set hub 1/4 bet Sections 1 and 36 137-138
 Range 32 thence north call for Pine 4. S 20° W 55 links: White Pine
 3 N ~~23~~ 23° 30' W 26 links all are gone and we continue west

Twp Co

Survey record N: 158

44-35-30
T137-138
R32

in green pines over level land; at 3180 cross old road NE and SW; at 3960 little wood pin in root of tree; at 4013.10 lock in J P stump; at 5280 set hub near corner to section 1.2, 35, 36 Twp 137 and 138 Range 32 where notes call for Pins 4 S 10° 30' W 3. Pins 5 N 10° E 29 links; Pine 4 S 30° E 34 links; Pine 7 N 43° 30' W 22 links; We do not find the lines and quit for night

Feb 11th 1909 at the corner to Sections 25, 30, 31, 36, T. 138 Range 31 and 32 notes call for: Pins 8, N 85° E 16 links; Pine 10 N 81° W 43 links Pine 6 S 63° W 25 links; We find the stump of the Northeast line plainly marked and all the others dimly marked from which we set a stake for the line corner, and run South on 9° variation: at 150 feet enter lake at 1320 set pin on ice; at 1420 leave lake; at 1585 lock in two inch poplar stump on hill; at 2100 enter lake; at 2640 pin on ice; at 3960 pin on ice; at 4300 leave lake;

Feb 12th 1909 continue: at 4630 enter bog or lake being South arm of Moore lake; at 5080 leave bog or lake; at 5280 set hub "B" for temporary Township corner and put in bearings to hold hub "B" as follows: Jack Pine 4, NW 12.25 feet; Poplar 3, S.W. 9.60 feet to lock heads. We found no meander corners on the mile just run so continue South: at 5280+86 feet we cross our E. & W. Transit line at a point 325.30 feet East of hub 5053.62 W; at 6030 enter slough; at 6130 enter lake; at 6450 leave lake; at 6620 foot of big hill; at 6760 top of big hill; at 7920 feet the line 1/4 corner post between sections One (1) and (6) Six T 137 R 31 and 32 W bears 34.40 feet South and one inch west: at this point the notes call for: White Birch 6, S 65° E 30 links; White Birch 8, N 45° W 33. links; We find the NW Birch standing, dead but plainly marked, from which we set the line 1/4 Sec Cor' post.

Check chain half a mile north and quit on account of deep mud. June 2nd 1911 I find the bearing lines at the Twp corner to Townships 137 and 138 Ranges 31 and 32 W I find two of the old lines plainly marked and the measurements and courses check out perfect to the roots of the same I set a 4 inch iron pipe 5 feet long in an 8x8x36 inch box of cement

On July 24 1911 Mr E. L. Forbes and A. W. Moulster set an iron 2x48 inches in size with no cement, at the corner previously established by me at the corner to Sections 5, 6, 31 and 32 between Townships 137 and 138 Range 31 W and at a point on my old transit line 4728.32 feet West, the line Township Corner sets North 63.07 feet making the length of the West side of the NW 1/4 of Sec 6, to be 2651.47 feet and the West side of Section 31 to be 5302.94 feet

The length of the East side of the NE 1/4 of Section 1. T 137 R 32 is 2651.47 feet and the length of the East side of Section 36 T 138 R 32 is 5302.94 feet. All courses turned from the true meridian

Recorded Dec 5th 1911

John W. Curo
County Surveyor on commission

5-6-31-32
T137-138
31 T.M.

Survey record N° 158

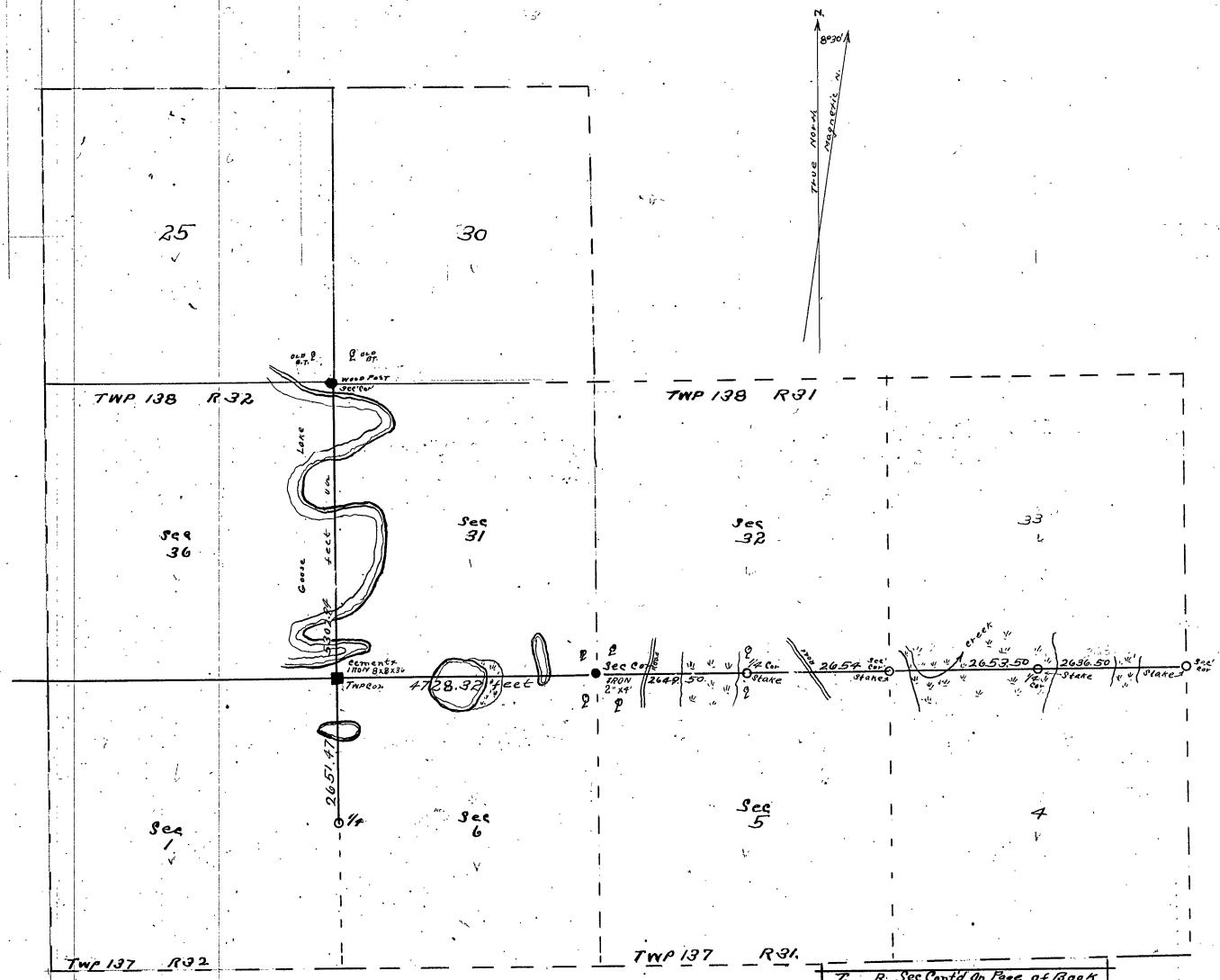
NOTES OF 138-32			NOTES OF 138-31			NOTES OF 138-30		
Sec	Cont'd	On Page of Book	Sec	Cont'd	On Page of Book	Sec	Cont'd	On Page of Book
25	"	414 " A	25	"	"	30	"	"
36	"	416 " A	30	"	405 " A	31	"	"
			31	"	405 " A	32	"	"
			32	"	"			
			33	"	"			
			34	"	"			
			35	"	"			
			36	"	"			

NOTES OF 137-32			NOTES OF 137-31			NOTES OF 137-30		
Sec	Cont'd	On Page of Book	Sec	Cont'd	On Page of Book	Sec	Cont'd	On Page of Book
1	"	"	1	"	"	5	"	"
			2	"	"	6	"	"
			3	"	"	7	"	"
			4	"	"			
			5	"	"			
			6	"	"			
			12	"	"			

PLAT OF
TWP. 137-R.31.
" 138- 31.
" 137- 32.
" 138- 32.

Survey record 158
See Page 330. NOTES

SCALE - 3 INCHES = 1 MILE



Survey commenced Aug 19 1902
 finished July 29 1911
 recorded Dec 5 1911

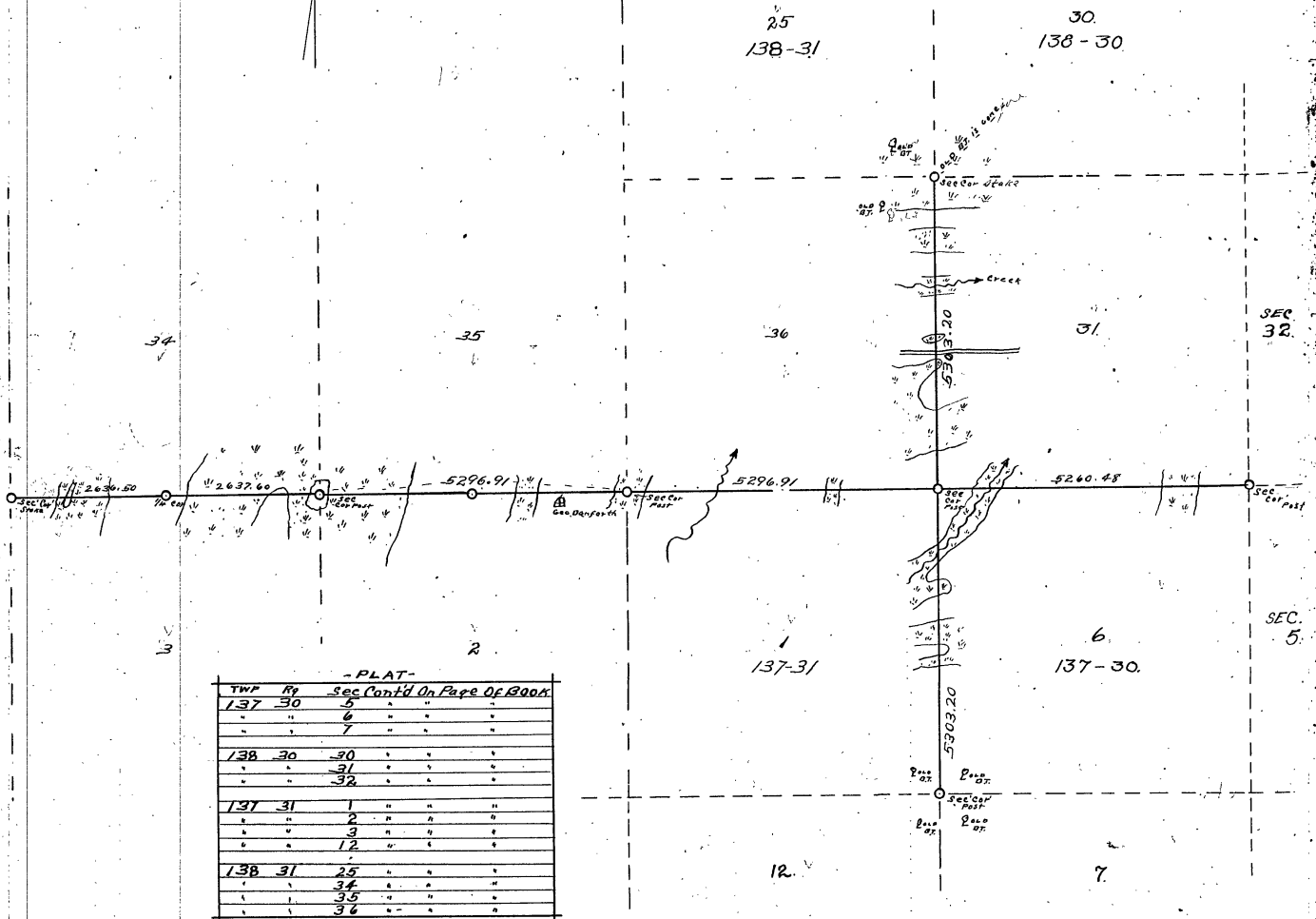
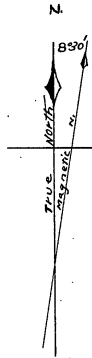
John W. Curo, Co Surveyor
 Cass Co Minnesota

T.	R.	Sec	Cont'd	On	Page	of	Book
137	31	4	"	"	"	"	"
"	"	5	"	"	"	"	"
"	"	6	"	"	"	"	"
138	31	30	"	404	"	A	
"	"	31	"	404	"	A	
"	"	32	"	"	"	"	
"	"	33	"	"	"	"	
137	32	1	"	"	"	"	
138	32	25	"	415	"	A	
"	"	36	"	415	"	A	

A

PLAT OF
 TWP. 137-R-31
 " 138- 31
 " 137- 30
 " 138- 30
 SCALE: 3/16" = 1 MILE.

Survey Record No 158.



- PLAT -

TWP	Ry	Sec	Cont'd On Page Of Book
137	30	5	"
"	"	6	"
"	"	7	"
138	30	30	"
"	"	31	"
"	"	32	"
137	31	1	"
"	"	2	"
"	"	3	"
"	"	12	"
138	31	25	"
"	"	34	"
"	"	35	"
"	"	36	"

Surveyed Aug 13th 1908 To July 21st 1911.
 Recorded Dec 5th 1911
 John W. Cass, C. Sumner Cass, Co. Minn.

Survey Record No 159

Field notes of the survey of a part of Township N=139^N Range N=27^W 5th Principal Meridian through Sections 15, 16, 17, 20, 21, 22:

as made by John W Curo County Surveyor of Cass County Minnesota
 April 21st 1909 C. H. Lianitman H. W. Snell and F. M. Laughlin as men and chainmen
 We use a K. and E. transit and a 300 foot steel tape

16-17-20-21

At the corner to Sections 16, 17, 20, 21, 139-27 we find the N.W. and N.E. old Government bearing lines from which we set a 4x4x48 inch post for the true section corner and run East on 8° magnetic variation, rough chain.

1/4 16-21

at 1320 feet set stake, at 2640 feet set stake and look for the 1/4 corner between Sections 16 and 21 where the notes call for a post and the following bearing lines: White Maple 7, N 5° E 15 links; Red Oak 9 S 10° W 18 links; We find what appears to be the lines but on account of there being no scribe marks from which to identify them we do not use them and continue our line East at 3960 set a stake. at 5275 the line corner to sections 15, 16, 21, 22, sets North 30 feet.

15-16-21-22

April 22 1909 Snell, Curo, M^cLaughlin; At the corner to sections 15, 16, 21, 22, Govt notes call for a post and the following lines: White Pine 30 N 27° E 33 links; White Maple 6, N 62° W 12 links; White Maple 6, S 35° E 36 links; White Maple 6, S 30° West, 21 links; We set the corner from flat measure from all of the old lines which are dead and down except the slab of the old N.E. lines which stands plainly marked: We set a 4x4x48 inch post and run South on 8° variation; at 1320 set stake; at 2641 the line 1/4 stands West 98 feet At this point being the 1/4 corner between sections 21 and 22- 139-27 the old notes call for a post and the following lines: Maple 5 S 72° E 22 links; Maple 9 N 45° W 13 links We find the N.W. B.T. standing plainly marked and standing from which we set the true 1/4 corner between sections 21 and 22 @ 8° 46' Var from face of "B.T." marks: the S.E. line seems to be gone. We set a 4x4x48 inch post for the true 1/4 corner.

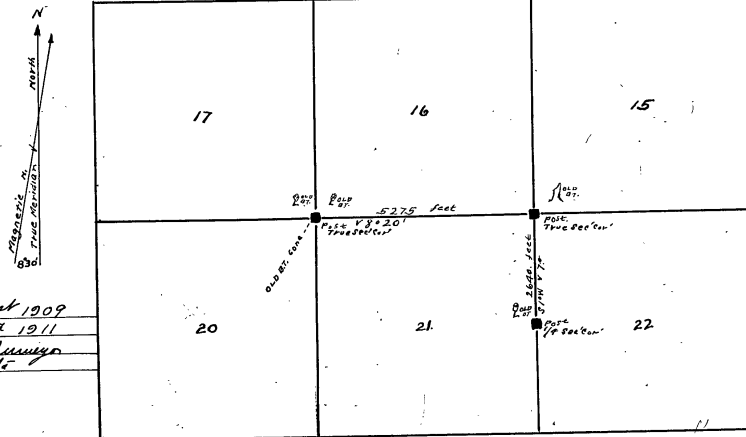
1/4 21-22

All courses turned from the true meridian
 Recorded Dec 5th 1911

John W Curo
 County Surveyor Cass Co Minn

Scale 2 inches = 1 mile

T139^N R 27^W
 Plat.
 SEC'S 15-16-17-20-21-22



Surveyed Apr 21st 1909
 Recorded Dec 5th 1911
 John W. Curo, Co Surveyor
 Cass Co. Minnesota

Survey Record No 160.

Field notes of a part of Township No 139^N Range No 25^W 5th Principal Meridian through Sections 14, 15, 20, 21, 22, 23, 27, 28, 29, 30, 31, 32, 33. as made by John W. Curo, County Surveyor of Cass County Minnesota

20-21-28-29

creek road

1/4 20-29

April 17th 1909 Neuse a Keuffel & Esser transit and a 100 foot steel tape: Harry Meacham, as man: Sherman T. Eade and Frank Chiswick sworn in as chainmen: at 9 o'clock AM John W. Curo transitman We begin the survey of a wagon road by going to the corner of Sections 20, 21, 28, 29 - 139-25 at which point the notes of the original survey call for a post and the following bearing lines: Tam 8 N 20° E 14 links; Tam 9 S 65° E 16 links; Tam 10 S 72° W 20 links; Tam 5, N 42° W 27 links; We find all of the lines plainly marked but down, from which we set a 4x4x48 inch post for the true corner by flat measurement from face of each line after which they check out for course at 9° variation: Run West @ 7° variation: At 275 feet a 5 foot creek runs Northwest at 300 feet leave limasac swamp: At 740 feet the old main road bears N. 78. At 766.60 back in stump: at 1250 feet cross branch road: at 1312.41 feet set hub for temporary 1/16 corner: then continuing we drove back in stumps and logs and at 2624.82 set hub for temporary 1/4 corner: true corner bears North only 3 feet at this point being the 1/4 between 20 and 29 we find the old Government bearing lines from which we set the 1/4 corner: Correcting back hub 1312.41 goes North 1.50 feet where we place a post for the 1/16 corner from which we run south at 90° angle from what we think is the North boundary of section: At 1320 feet set hub at 2640 set hub temporary center of the east half of sec. 29. J. S. Barrett assisted in chaining. April

M.C. No 8

29-30

29-30-31-32

April 18, 1909 H. Meacham, Jay S. Barrett, Elmer Shafer as men: Sherman T. Eade & J. Chiswick chainmen, Curo transitman continue: thence S 45° W: 1320 set hub. 1870 ft. set hub. temporary 1/16. 1970 center of N. end of narrow bog 50 ft. wide bears N. 4 S. 200 ft. at 2700 cross road, 2640 set stake, @ 2740 hub. temp. 1/16 Going to M.C. no 8 on south side of Morrison Lake on line bet. 29-30 we find both old bearing trees from which we set the M.C. & run S. & set the corner to secs. 29-30 - 31-32 - 139-26. from one old bearing tree after which the distance to the M.C. corner is two ft. shorter than 1/200 chain.

28-29-32-33

1/4 20-29

Run E. on 8° var: @ 630 ft. leave meadow: @ 1318.35 set hub. temporary 1/16 @ 2636:70 set hub. temporary 1/4, on top of big hill, bearing trees gone: @ 3955.05 set hub. ft. of hill on E. side: April 20, 1909 same crew, @ 5273.40 hub. the true corner to secs. 28-29 32-33, bears N. 18.40 ft. @ this point notes call for, Aspen 12 N. 14° E. 34 links, Aspen 8 S. 20° E. 18 links, Birch 6 S. 31° W. 37 links, Aspen 13 N. 64° W. 39 links, we find all of the old trees & set corner. I find in looking over my notes I've made a mistake in setting the 1/4 corner, between secs. 20-29-139-26, so take my crew back there, notes call for Aspen 7 S. 11° E. 59 links, Jack pine 12, N. 45° E. 34 links, we find both old trees from which we set a 4x4x48 inch post for the true 1/4 corner, & again with transit on hub 2624.82, the true corner bears N. 49° 12' W. 23.20 feet. @ hub 1312.41 we run N. 49° 12' W. 11.60 feet. drive post to corner, then pulled up all other hubs & stakes.

Survey record N=160

I correct N. + S. road line, so to catch the new 1/4 corner just set, by swinging the N. end W.

@ 660 ft. S. I run N. 49° 12' W. 81.70 ft. & set tall stake & set road center. @ 1320 I run N. 49° 12' W. set stake at road center, continue S. & leave hub. 2640 where it is, & drive big 4x4x36 inch dry tamarac plug into the ground with new bearing as follows. N.P. 5 N. 58° 36' W. 26.30 ft. N.P. 10 S. 86° 25' E. 29.42 ft. to talk heads above correction makes line 7.50 ft longer. or 2647.50 ft. My line just corrected would run S. 0° 11' E.

(29-32)

N. Dry. as Meridian: A line between 29-32 is hilly, I chain rough & at 26:36.70 I run N. 9.20 ft. set stake, @ 1315.35 run N. 4.60 ft. set square stake which fixes the 1/4 post as to N. + S. but it may be a foot out as to E. + W. Beg. 29-30-31-32 run W. 8° var. @ 300 leave meadow, 1320 set stake, 2640 hub. true 1/4 corner, stand N. 9.35 ft. + 1 ft. W.

(29-30 31-32)

At this 1/4 bet. 30-31 notes say, spruce 7 N. 56 links, W. B. 7 S. 1° W. 80 links, find both old trees, set stake for 1/4. Run W. 8° var. 1320 hub. 2640 hub. the S. W. corner sec. 30, stand N. 6° 50' E. 16.60 ft. notes call for G.P. 10 N. 86° E. 26 links, G.P. 11 S. 59° E. 19 links G.P. 6 S. 63° W. 26 links G.P. 5 N. 48° W. 21 links we find G.P. pine standing marked & set a 4x4x36 inch post for true corner.

1/4 30-31

30-31

April 21-1909 At hub. 1315.35 E. of corner to secs. 29-30-31-32 I move hub. 8 ft. W. and set hub. 1310.35 then with transit on N. E. + S. W. road line at hub. 3740, no. 1310.25 bears S. 77° 30' E. 42.20 ft.

May 1st 1909 Correct line bet. 30-31. 139-25 @ 2640 W. of 1/4 corner the sec. corner bears N. 6° 50' W. 16.60 ft. 1320 goes N. 6° 50' W. 8.30 ft. At 2640 ft. W. of corner to 29-30-31-32 the 1/4 bears S. 9.35 ft. and 1 ft. W. + at 1320 we run 4.67 ft. S. + 0.50 ft. W. to 1/4.

1/4 30-31

Correct angle through sec. 29. At 2640 we run S. 77° 30' E. 29.86 ft. @ 1870 run S. 77° 30' E. 21.10 ft. @ 1320 run S. 77° 30' E. 14.88 ft. to road center.

29

July 31st 1909. Beg @ 1/4 post between sections 20 and 29-139-25

(20-29 1/4)

Run west on 7° 45' variation: At 600 set Hub: Robertson and Starwalt go to look for the 1/4 between sections 29 and 30

July 22nd 1909 Jos Starwalt and Curo chaining, perfect plumb 606 line. Curo

transitman: Wm Robertson, Clark Jenkins, Loe Olds, Lester Jenkins axmen Beginning at Hub 600 W of 1/4 on south side of sec 20 continue west: @ 750 cross road which bears NW and S E: at 836 set hub: at 900 enter dry Jack Pine and spruce swamp: at 1100 enter wet swamp: at 1200 stake: 1320 hub in swamp @ 1408.90 hub in swamp. at 1500 stake in center of 7 foot creek runs North @ 1525 leave swamp enter wet Jack Pine and spruce ground: at 1692.80 set hub: at 1700 enter open Tam Swamp 1800 stake: 2100 stake: 2400 stake: 2500 to swamp: at 2530.40 set hub: at 2640 set hub with bearings as follows: Jack Pine bears NW 12.98 feet to a lock head Near this point we look for the bearing lines to Cor of sections 19, 20, 29, 30, 139, 25. where notes call for Pine slab 6, N 20° E 38 links: Jack Pine 6 S 77° E 94 links: Pine slab 8, S 70° W 37 links: Pine slab 7, N 72° W 19 links. All appear to be gone and we quit this line and go to Cor of secs 20, 21, 28, 29 7139.25 @ 25 W where notes call for: Tam 8, N 20° E 14 links: Tam 9 S 65° E 16 links: Tam 10 S 72° W 20 links Tam 5 N 42° W 27 links: I find the old stake previously set by me from these old trees but Jack Broadband and his road builders have cut them down. I find the NE and SW old posts and the stake which stands all right so I put in new bearing lines as follows: green Balson 6 N 54° 50' E 44.25 feet, green Balson 3 S 41° 24' E 33.36 feet 18° 46' 1/2 lock heads - Run East 7° 15' var at 100 to swamp: 790.50 hub rough chain @ 843 Hub. 1577 Hub

19-20 29-30

(20-21 28-29)

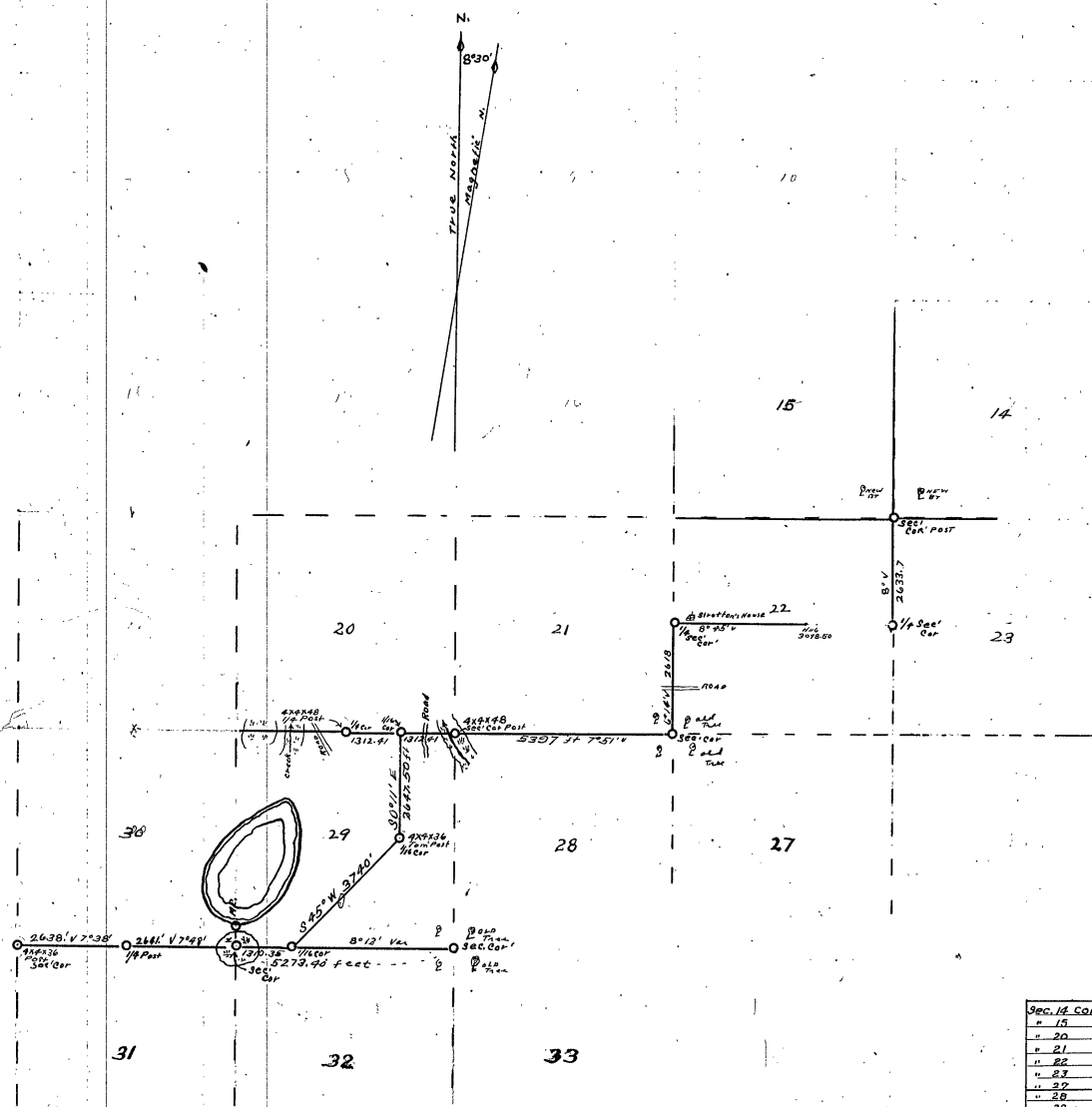
(21-22 27-28)

at 2640 set hub July 23rd 1909 the 1/4 is gone and we continue East at 5397 rough chain the corner to sections 21, 22, 27, 28 bears North 57 feet at which point all notes call for Tam 8 N 55° E 16 links: W Pine 10 N 45° W 45 links N Pine 7 S 30° E 36 links W Pine 9 S 55° W 11 links. We found the S E Norway down but plainly marked from which we set the true corner with new bearing as follows:

PLAT OF
 SECTIONS 14, 15, 20, 21, 22, 23, 27, 28, 29,
 30, 31, 32, 33, T. 139 N. R. 25 W. S. 4 P. M.

SURVEY RECORD No 160.

SCALE 2 INCHES = 1 MILE



PLAT

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" 32	" "	" "	" "
" 33	" "	" "	" "

Survey begun April 17, 1909.
 finished July 25, 1909.
 recorded Dec. 5, 1911.

John W. Carr, Co. Surveyors
 Cass Co. Missouri

Survey record N^o 160.

(21-22)
(22-23)

July 24 1909

White pine slab 8 N 66° 51' E 21.52 feet; White pine stump 8 S 65° 47' W. 47.23 feet;
 Birch 8. S 11° 17' E 38.82 feet to lock heads @ 8° 46' Variation
 Run North on 8° 45' Var; rough chain at 933 cross road E & W; at 1669. set hub
 at 2618 the 1/4 sets East 115 feet. At this point being the 1/4 between Secs
 21 and 22 139-25 notes call for: Red oak 10 S 75° W 74 links; W. Birch 8.
 East 21 links; We set the 1/4 post from SW Oak which is standing green plainly
 marked. We set new bearings as follows: Birch 10 S 30° 3' E 27.46 feet; to lock
 head @ 8° 46' Variation.

(21-22)

Run East on 8° 45' Var rough chain; at 400 feet Stratton's house sets
 North about 50 feet; then walking to the 1/4 between Sections 22 and 23
 139-25 notes call for Turn 6 S 85° W 9 links; Turn 8, N 80° E 17 links; We find
 both trees standing green plainly marked but distance between them by way
 of courses is 0.40 feet short so I proportionate the distance and set the stakes
 Run North on 8° 45' Var; at 1800 feet and set hubs and stakes

(22-23)

July 25 1909

at 2633.70 the corner sets East 70.30. At this point being the cor-
 ner to Sections 14, 15, 22, 23- 139-25 notes call for: White Birch 7 N 40° E
 12 links; Aspen 10 N 50° W 30 links; Aspen 6 S 40° E 13 links; Red Oak 6
 S 52° W 32 links; We found the SW Oak plainly marked but uprooted
 also the stump of the NE Birch from which we set the stake by flat measure
 after which they stand as follows; Old oak B.T. S 47° W 21.12 feet; Old Birch
 B.T. N 16° E 7.92 feet; at 8° 46' Var; Set new bearings as follows: Green
 Norway 8, N 41° 19' E 14.35 feet; Second Red Oak 8 N 77° 36' W 28.79 feet to locks
 Correct lines back and set stakes on Sec line

(14-15)
(22-23)

Going to stake N^o 12 East of 1/4 corner on West side of Sec 22.
 139-25 we continue bearing line East at 8° 45' Var rough chain
 at 1390 feet set hub at 1927 set hub; at 2267 set hub; at 3098.50
 set hub and quit this line; All courses turned from the true meridian

(22)

Recorded Dec 5th 1911

John W. Cress
County Surveyor Cass Co Minn

Sections 14, 15, 21, 22, 23, 28 Continued on page 346.

NOTES.

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" 21 " " " " 346 " A "	
" 22 " " " " 346 " A "	
" 23 " " " " 346 " A "	
" 24 " " " " 346 " A "	
" 25 " " " " 346 " A "	
" 26 " " " " 346 " A "	
" 29 " " " " " " " "	
" 30 " " " " " " " "	
" 31 " " " " " " " "	
" 32 " " " " " " " "	
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A

Survey record No. 161 Township 139 Range 25 5th P.M.

Field notes record no. 161 of a part of township 139 range 25 through sections, 13, 14, 15, 21, 22, 23, 24, 25, 26, 28.

As made by A. W. Moulster, deputy co. surveyor, of Cass Co. Minn. approved & recorded by J. W. Curo, Co. surveyor, of Cass Co. Minn. April 23, 1910. A. W. Moulster transit man; D. Stratton, & H. Meacham assisting; use an H. & B. transit, & a 200 ft. Chicago steel tape; re-stake the West boundary of sec. 22 & the south line of sec. 21. April 23, 1910 Roy Stratton & A. W. Moulster, chainmen, S. Meacham & D. Stratton spurs.

(21-22)

1/4 21-22

1/4 22-23

1/4 21-28

Beginning at the 4 cor. of sec. 21-22-139-25 & continue Curo's old transit line East @ 5170 ft. 4 cor. between sec. 22-23 bears south 74.90 ft. correct the line back West and set stakes, 1320 sets west 262.5 ft. and south 18.75 ft. To put in the 4 cor. between sec. 21-25

Township 139-range-25, hub. 2640 we run East 58.80 ft. & North 28.50 ft. and set 3 1/2 x 3 1/2 x 24 inch post with bearings as follows. Dead Maple 77.34° 31' E. 37.80 ft. white pine 97.57° 25' W. 76.15 ft.

13, 14, 22, 23

1/4 14-23

May 2, 1910. Moulster transit man, D. Stratton & William Stratton Soc. Olds, S. Meacham, William Robinson, beginning to the cor. 14-15-22-23-139-R. 25 at stake set by Curo we run East at 9° var. @ 40 enter open bog. @ 200 set pin, 400 set pin, 799 set hub. @ 825.50 set hub. on hog back @ 2548.50 hub. on hill @ 2623.10 the 4 cor. between 14-23 sets south 93 ft. at this point notes say: White birch 6 S. 14° E. 11 links white birch 6 N. 14° W. 19 links, we found the S.E. birch plainly marked and set cor. by flat measure; old trees there stands as follows: 90° 39' var. stump of birch N. 4° 30' W. 9.22 ft. birch stump S. 5° E. 7.25 ft. I set a post with new bearings as follows: 9° 30' var. white birch 10 S. 13° 30' W. 46.80 ft. white birch 10 N. 12° 11' W. 70.17 ft. we set hub 2548.80 S. 90.36 ft. transit on tree 4 cor. back sight on corrected hub. hub. 2548.80 and run East on 7° var. @ 16.40 hub. on hog back. @ 1000 set pin in road 77° 14' + S.E. @ 1375.10 hub on hill. @ 2330 enter bog. @ 2688.10 the cor. to sections 13-14-23-24 sets North 77.40 ft. the notes call for: tamarac 3 S. 20° W. 60 links; tamarac 6 S. 62° 30' E. 110 links tamarac 10 N. 85° E. 240 links white birch 7 N. 77.30° W. 450 links, we hunt for the trees an hour & quit for night.

13, 14, 23, 24

May 3, 1910. We find 3 tamarac stumps badly rotted but check out for measurement & courses; there are the old bearing trees, we find a stake but cannot find the N.W. birch; we set a new stake by flat measurements and put in new bearings as follows: 8° 30' var.; tamarac 7 N. 82° 56' E. 123.15 ft. tam. 6 S. 72° 52' E. 6.7 ft. tam. 4 S. 27° 43' W. 56.50 ft.

M.C. 6-7

Run South 8° 30' var. @ 500 enter swamp, @ 1201.80 back in old bog. @ 1300 leave swamp @ 1600 stake in Flemmings garden @ 1681.70 hub in garden line cuts Flemmings house, I got distance around by right angle triangulation as follows: 1681.70 run West 15 ft. then south 80 ft. then E. 85 ft. to hub. No. 1731.70 S.: 1780 enter lake could not find M.C. no. 602 M.C. no. 7 & continue line south; got the distance across lake by triangulation; dist. across lake 1405.20 minus 50 ft. = 1355 ft. hub. on S. shore of lake = 3136.90 ft.

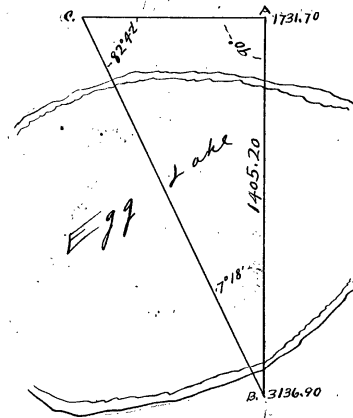
23, 24, 25, 26

May 4, 1910 continue south: @ 6330.10 the corner of sections 23-24-25-26 set N.

23, 24, 25, 26.

35.60 ft. Old notes call for white pine 6 N. 22° E. 11 links, white pine 8 N. 62° W. 29 links, white pine 12 S. 55° E. 29 links, spruce 8 south, 25° W. 33 links, found N.E. & W. old tree stumps rotten, but plainly marked. I set a post by flat measurement with new bearings, as follows; 5° 30' var; Elm 1 S. 4° 12' W. 49.10 ft. Oak 14 N. 75° 19' E. 57 ft.; Correcting back; at 1731.70 from West 11.56 ft.; 1780 W. 11.90 ft. @ 1780 I set new meander corner with bearings as follows; poplar 10 N. 81° 45' E. 28.50 ft.; Norway stump 18 N. 20° 24' W. 43 ft. or 8° 30' var; hub. 120 goes west 8.02 ft. hub. 289.20 goes west 1.90 ft. To put in 1/6 West of the N.E. corner of sections 23, we begin at hub. 1375.10 + run west 56.65 ft. to 1319.65 ft. then N 38.70 ft. and set 1/6 with bearing as follows; white pine 14 S. 60° W. 10.37 ft. N.P. 12 S. 70° E. 35.70 ft. @ 8° 30' var; we correct the line between sections 14-23 and quit for night.

All courses lined from the true meridian.



1/10 of 13-14

Recorded Dec 5th 1911

John W. Curro
County Surveyor Cass Co Minn

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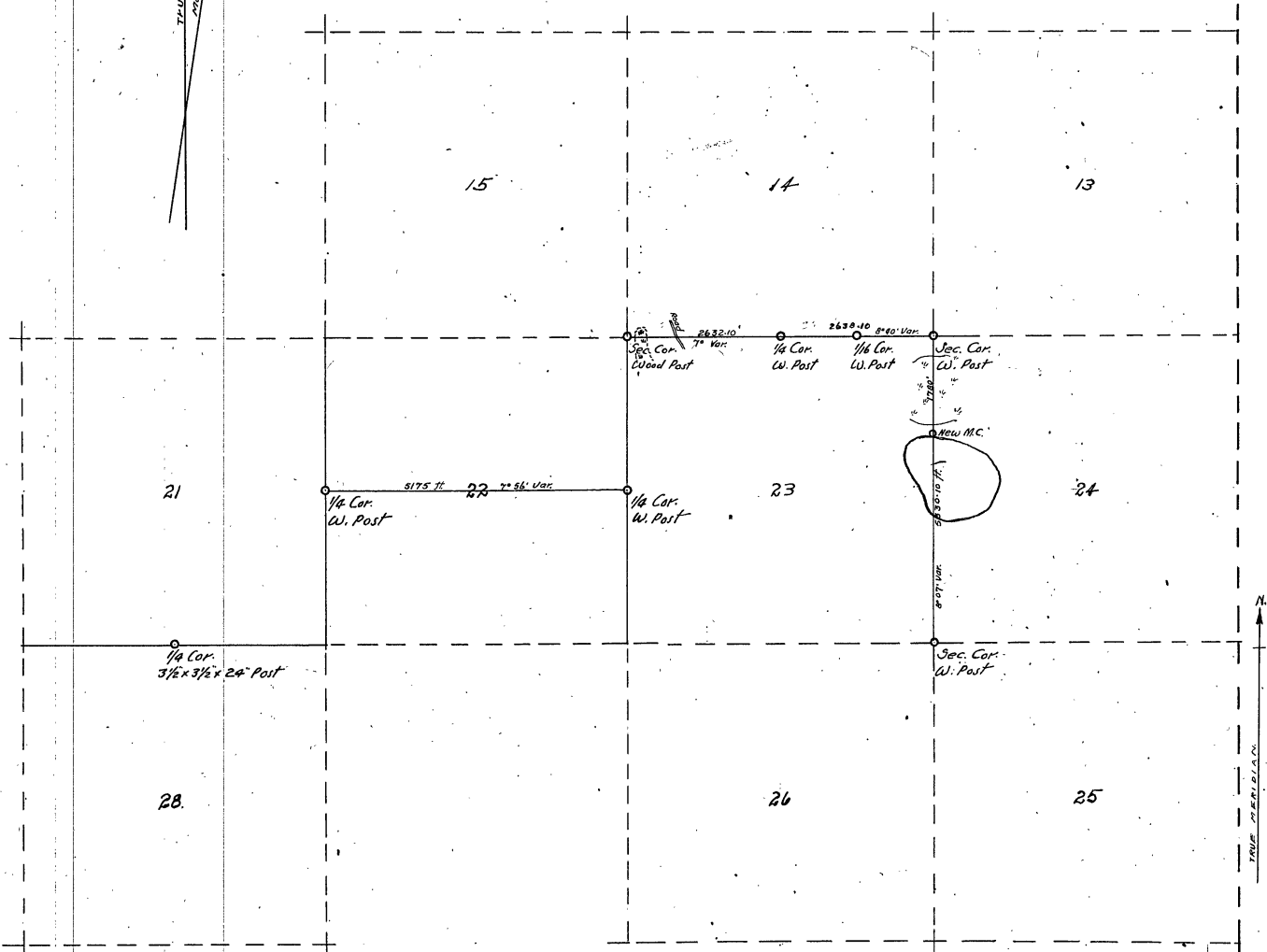
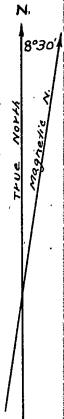
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A

PLAT OF
Sections 13, 14, 15, 21, 22, 23, 24, 25, 26, 28.
Twp 139 N Rge 25 W 5. PM.

Survey Record N^o 161.

Scale 3 inches to the mile.



Survey made April 23, 1910 to May 4, 1910.

recorded Dec. 5, 1911.

John W. Puro Co. Surveyors
Paseo Co. Minnesota

PLAT

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Sections 13, 14, 23, 24, continued from page 347. 139-25
 Survey Record No. 162

Field notes of the survey of the judicial Highway in a part of township no. 139, N. range 25th. 5th principal meridian through sections 1, 11, 12, 13, 14, 23, 24,

as made by John W. Curd, County surveyor of Cass Co. Minn. assisted by Harry E. Todd Deputy Co. Surveyor of Cass Co. Minn. B. S. Perry of Cass County, Alfonso Olds of Cass Co. and John M. Buttrick of Alkin Co. special commissioners. We use a N+E transit and a 500 ft. Chicago steel tape; plumb-bob chain, double center tacked hubs;

April 7, 1911 Curd & Todd chainmen & transitmen; Frank Olds, Abim Olds, Armen; Elwin Olds, Henry Olds chainmen; Perry & Curd chained for them. Beginning at the closing corner on the East side of section of 13, T. 139 N. range 25th. 5th P.M. being the N.W. corner of T. 50 N. range 2th. 4th P.M. we run south along the line of the 5th P.M. a random line on 70°30' magnetic declination in swamp. at 300, 600, 900, set stakes in swamp; 1050 to swamp; which bears SE & NW; at 1114. Cen of winter road SE. NW at 1115.35 set hub on rain; at 1200 stake 1450 enter swamp; 1480 set hub on sea wall at 1485 enter Edna Lake the meander is gone; at 1500 stake on ice; at 1718 to lake; 1800 stake; 1860.48 hub 30 ft west of lake shore; at 2035, enter lake at 2100 stake on ice at 25 feet east of lake shore; at 2257.40 lock in log on point of land in edge of water; at 2400 2700, 3000; 3300, 3600, 3900, 4200, 4500, 4800, 5100 set stakes on ice in Edna Lake; at 5400 set hub on ice; double center lock Todd is at the transit and Perry and Curd chaining; 5670 to lake; 5674.25 M.C. N-5 bears East 25.65

13

M.C. N-5

1/4 Sec 24

feet; at 5677.40 set hub on sea wall; 5700.600. set stakes 6144.35 the 1/4 on East side of Sec 24 T 139 R 25 bears East 7.25 feet at 6148.45 set hub; at 6300 set stake at M.C. N-5 on E. side of Edna Lake Gov't stak's call for a post and following bearing trees: yellow pine 10 S 73°W 35 links We find the pine standing plainly marked from which we set the meander corner angle turned from a back sight a mile north on the true line and measured 23.10 feet to face of figures: This M.C. will cause a slight crook in the line and it appears as tho the government surveyors should have recorded it 15 links instead of 35, but we have to use it at 35 links

1/4 24

at the 1/4 on E side of Sec 24 the notes call for a post and the following bearing trees: Soft maple 5 S 25°W 17 links; Aspen 10 N 85°W 27 links; We find the maple plainly marked and the stump of the aspen from which we set set a square stake for the line 1/4 corner;

1/4 13-14

April 8 1911 Todd transitman E. Olds and Todd chaining; A. Olds & F. Olds armen; at the 1/4 corner between sections 13 and 14 T 139. R 25 government notes call for white pine 7 S 62°E 17 links; Aspen 8 west 10 links We find the stumps of both trees plainly marked from which we set a wood stake for the 1/4 corner at 8°30' var' measurement checks out within 2 inches and we set the 1/4 corner by proportional measurement and set new bearing trees or follows: Birch 8 S 46°20' E 36.08 feet aspen 14 N 29° E 25.80 feet - 15 lock heads; ran East on 8°30' var' at 578 set hub on hill; at 1320 set stake at 1398.90 set hub; Curd and Alfonso Olds go to the South side of Sec 14 and check up the old survey made by M. Webster

14-23

April 9th 1911 We split up the crew and put them cutting brush

- in several places: Ours Todd, and two men check up the line between Sections 14 and 23 139.25 then beginning at the $\frac{1}{4}$ between 13 and 14 run South on $8^{\circ}45'$ var: at 401.50 set hub hill top; at 567 cross road NW & South: at 866.50 back in spruce stump; at 1200 pin in low road swamp; at 1600 enter open swamp; bears S.E. 1650 L.V. swamp: at 1969.70 Hub. Quilt for night
- April 10 1911 Continue South: at 22.25 enter open swamp at 2637.75 line corner to Sections 13, 14, 23, 24 - 139.25 - set by Moulster bears West 32.30 feet With transit at $\frac{1}{4}$ cor' bet' 13 and 14 back sight on random line and run North over level land at 50 cross E & W road: at 771.50 hub 971.50 hub. 1578.90 hub: 2046.70 lock in log 2100 enter cedar swamp at 2622. line corner to Sections 11, 12, 13, 14, 139.25 bears East 78.30 feet: at this point the notes call for N. Cedar $6N60^{\circ}E$ 25 links Spruce $6N45^{\circ}W$ 39 links Spruce $4S25^{\circ}E$ 24 links: Cedar 12850. W 27 links: We set the corner from the NE and NW trees which are plainly marked, from face of figures often which they stand correct for course. I have been here before with Mr. H.P. Smart and set a stake for the line corner and today I find my stake in perfect condition We correct our line back half a mile South
- April 11-1911 We split up the crew with Todd at the transit Frank, E. Lewis, Alvin, eds & D. Stratton helping Beg @ cor to 11, 12, 13, 14 139.25 run East $8^{\circ}30'$ var thro heavy hem & cedar timber: at 560 L.V. swamp. 567.10 Hub: at 600 enter birch and pine timber: at 838.30 set hub at 1383.75 hub: 1865.60 back in log scattering birch and small white pine timber: 2250 enter small swamp: 60 feet wide by 100 long: at 2310 L.V. swamp: at 2482.90 set hub: at 2580.65 feet the true $\frac{1}{4}$ corner between 12 & 13 bears South 170.40 feet at this point the notes call for White Birch $9S10^{\circ}E$ 17 links: White Birch $7N10^{\circ}W$ 21 links: We find the S.E. birch standing plainly marked from which we set the true $\frac{1}{4}$ corner and on
- April 12 1911 run East 613.45 Hub. 650 enter swamp: 720 L.V. swamp. 1100 enter little dry creek bed at 1140 L.V. same at 1235.50 set hub: at 1250 enter open swamp: at 1400 leave sand. at 1544.50 hub: at 1965.60 hub: at 2100 enter dry swamp: at 2350 L.V. swamp. 2433.40 hub: 2683.60 the S.E. cor of 12 and N.E. cor of 13 bears South 65 feet. At the N.E. cor of Sec 13 139.25 notes call for: Fir $3S45^{\circ}W$ 25 links: Birch - $N75^{\circ}W$ 23 links: We find the birch standing plainly marked and the roots of the fir from which we set a post for the true corner and the old trees stand perfect for course and distance We put in new bearings as follows: Birch $12S53^{\circ}W$ 36.77 feet: Maple $9S64^{\circ}37'E$ 33.72 feet to lock heads at $8^{\circ}30'$ var
- April 13 1911 Todd transitman: Beginning at the S.E. corner Sec 12: 139.25 run N $8^{\circ}30'$ var. at 563.95 back in log: at 955.50 lock in log: at 1421.25 set hub: 1617.40 lock in log: at 1650 enter low ground Birch, Tamarac and pine

14-23

14-13-14

13, 14, 23, 24

14-13-14

11, 12, 13, 14

11, 12, 13, 14

14-12-13

S.E. Cor 12

N.E. Cor 13

S.E. Cor 12

(1/4 Sec 12)

At 2523.40 tack in log, 2640.90 true N. on E. side of section 12 bears 15.78 ft. E. at this point notes call for soft maple 10 N. 75° W. 57 links, birch 8 S. 28° W. 38 links, we find both trees from which we set the true 1/4 corner. by flat chain face of figures, from which we run north 8° 30' var. @ 261.70 set hub.

(S.E. Sec. 12)

April 14, 1911 continue N. @ 1006.20 hub. @ 1442.50 hub. @ 1840.75 hub @ 2369.55 hub in road 2642.72 true S.E. of section one T 139-25 bears E. 52.60 ft. @ the S.E. cor. of sec 1-139-25 on Cass Co. line, the notes of the original survey call for post and the following bearing trees, white pine 20 S. 35° W. 31 links Aspen 14 N. 10° W. 16 links, we find the stump of S. W. pine plainly marked from which we set the true corner.

(1/4 13)

April 15, 1911, Todd. Transit man, taking up the line at the 1/4 corner on the West side of section 18-139-25 we again run it east, 5302.30 ft. intersection the 5th principal meridian line. And as the ground is too rough & hilly for road purposes we do not correct up the line.

(CC)

April 17, 1911, Euro transitman, beginning at the 1/4 corner, on the north side of section 33 Town, 51 N. range 27 W. 4th P. M. we run west on 7° magnetic variation: @ 460 ft. we cross the N. and S. Co. line, being the 5th principal meridian line, at a point 1006.10 ft. N. of the 1/4 corner, on the east side of sec. 12, 139-25: @ 420.65 ft. west set hub. in N. & S. transit

(12)

line, @ 750 ft. the closing corner set by the government surveyors bears south 14.15 ft. at this point being the C.C. at N. W. cor. 33, T. 51. R. 27, 4th P. M.

(CC)

notes call for post and the following bearing trees, white pine 24 N. 75° E. 62 links, Oak 12 S. 29° E. 54 links, we find both stumps and the old stake plainly marked from which we set a new stake & correct the line back.

(12 SEC.)

April 16, 1911, we correct up all the lines running in this survey, beginning at the S.E. corner of sec. 12, 139-25, we chain south on the cut out line. At 260 enter tam. swamp. E. + W. 660 leave same, @ 327 ft. a birch tree with timber scribe marks, on its east face, sets a short distance west; this was evidently marked up by some crazy cruiser & is not a government bearing tree; @ 1440 enter open swamp. @ 1450 cross road E. + W. in swamp. 1500 set stake, @ 1635.30 ft. intersect the old stake, at the closing corner, at the point where we first began this survey, being the Southwest corner, of Twp. 51, range 27, 4th P. M. and the N. W. cor. of T. 50 R. 27, 4th P. M. All courses turned from the true meridian.

(CC)

Recorded Dec 5 1911

John W. Euro
County Surveyor Cass Co. Minn

-NOTES-

See Contin on Page of Book			
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13	"	"	"
14	"	"	"
15	"	"	"
16	"	"	"
17	"	"	"
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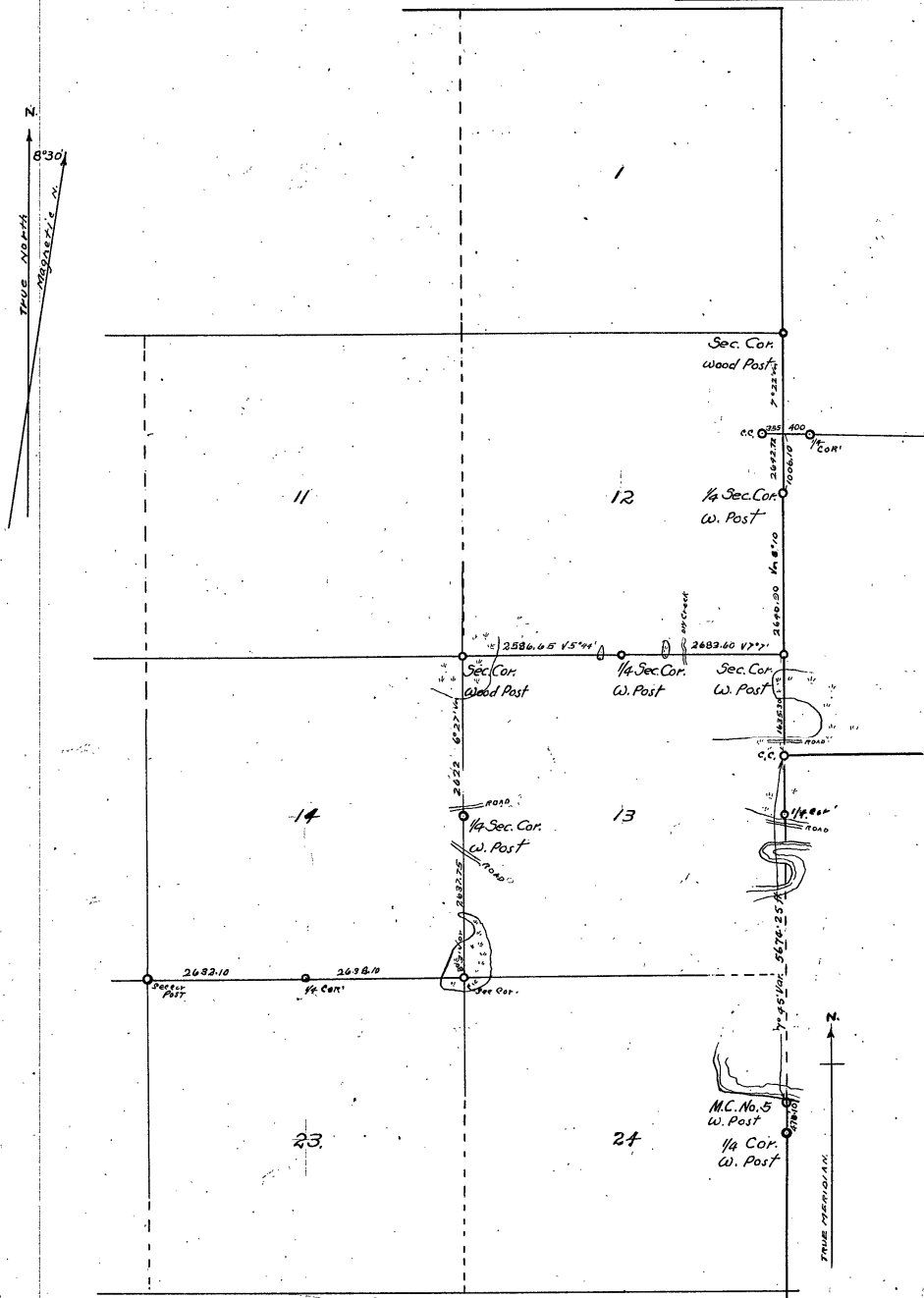
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A

PLAT
SECS. 11, 12, 13, 14, 23 AND 24
T. 139 N. R. 25 W. 5TH P.M.

SCALE 3 IN = 1 MI.

SURVEY RECORD No. 162.



Survey made April 7 to April 17, 1911

recorded Dec 5 1911

John W. Cress Co. Surveyors
Cress Co. Minnesota

Sec 1 Cont'd on Page	Book
11	
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Field notes of the survey of a part of township 133 N. range 30 N. of the principal meridian through sections 13, 4, 7, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, as surveyed by J. W. Curs, County surveyor of Cass Co, Minn. assisted by Harry J. Todd, Deputy County surveyor, Cass Co, Minn. We use a K+E transit and a 300 ft. steel tape, plumb-bob line, double-center hubs.

March 21st 1911. Curs transitman, William Everett Hines, & Arthur S. Palmer of Sylvan, Minn. as chainmen, Curs & Hines chaining.

1/4 E. side
12
W.C.

At the 1/4 corner, on the east side of section 12-133-30 government notes say: "N. 80° W. south 860 links" with bearing trees as follows: pine 8, S. 40° W. 8 links, pine 8, N. 46° E., 98 links; we find both stumps plainly marked "B. J." one of which we had to chop out & is the old "B. J." from which we set the witness corner, by proportionate measurement from face of figures: distance via courses 5.28 ft. + 64.68 ft. = 69.96. 69.96 ft. gov't. chain = 68.76 ft. my chain; 5.28 ft. gov't. chain = 5.19 ft. my chain; drive iron spike for the true corner, and mark new bearings as follows: poplar 6. N. 25° 52' E., 21.2 ft.; jack-pine 10, S. 88° 5' E., 37.5 ft. to tack heads drove in a spot; Jake Huffman arrives, in P.M. & we run North on 9° 15' var.; at 25 ft. enter bank of lake at 50 water edge @ 800 lv. lake @ 941.10 hub. Run 2500 ft. N. and appear to be 125 ft. to face C. 20 back up and quit for night.

March 22, 1911; Huffman and Curs chaining, Hines & Palmer as men. Curs transit, Beginning again at the witness corner, to the 1/4 corner of E. side of section 12-133-30, we make a second run north @ 11° 15' var.; at 50 ft. enter ice, 567.60 drive spike in ice for temporary 1/4 corner. @ 830 lv. ice @ 941.60 set hub. variation changes to 10 degrees, on account of magnetic attraction, but we are running a transit line absolutely straight.

For fear the ice will break up, we take the transit back on the lake, and at spike 567.60 we back-sight on W.C. and turn telescope S. 88° E. and run a stub line east: @ 800 pin on ice, @ 880 lv. lake @ 411 set hub. @ 443 set hub. transit the telescope and back-sight West — my line of site come exactly between two brick chimneys in Geo. Ramsey's house.

From this angle the chimneys appear to be 5 ft. apart, but that is on account of the way they stand in the building with my line of site. We start this line East as a stub line to work from, as I intend to sub-divide section 7, of the town east, and the ice may go out before I get it done, as spike 567.60 is only temp. 1/4 I will proportionate its position from the shore hub. no. 443 & the two chimneys.

1/6 12
1-12

Going back to hub. 941.50 we continue north: @ 1350 set hub. @ 1557.60 set hub. 1 ft. north of road center for temporary 1/6, enter field @ 2925 lv. field @ 2930 set hub. 5 ft. north of field. 3207.60 set hub. temp. cor. to secs. 1-12. At this point the government notes call for, black oak 8, S. 62 1/2° W. 665 links, black oak 12, N. 34° W. 80 links, black oak 6, N. 24 1/2° E. 52 links, black oak 14, S. 44 1/2° E., 207 links.

SE Cor Sec 1.
NE Cor Sec 12

Near hub. 3207.60 we find a fence corner built by George Ramsey who says he built the fence on a line run by a surveyor years ago and established the post from a government bearing tree but when they show me the tree the surveyor used I find it to be a Jack-pine instead of an oak.

1/4 E. Side Sec 1.

The Jack-pine is 15 inches thick & stands well marked, but I'm not able to use it, so continue my transit line straight north. March 23, 1911. @ 3550 hub on hill, @ 4190.50 set hub on big hill, @ 4492.10 set hub. var: changed to 11°: @ 5571.55 set hub. var' changed to 10°30':

M.C. No 13

March 24, 1911, @ 5847.60 set hub. temporary 1/4 on north slope of hill at this point being the 1/4 on the east side of section 1-133-30 government notes call for black oak S. N. 82 1/2° E. 81 links. black oak S. N. 68° W. 14 links: all are gone and we continue @ 6701.20 set hub. @ 6966.20 set hub. @ 7118.20 the meander corner on the east side of section 1 and on the south side of Sylvan lake set west. 55.20 ft. @ 7147.80 the meander corner set 29.60 ft. south, and 55.20 ft. West, showing that our chain 29.60 ft. shorter than what the government surveyor report, @ this point the notes call for post and the following bearing trees. pine 16, S. 20° E. 16 links: pine 14, S. 9° W. 3 links We find both stumps, the S.E. plainly marked & N.W. indly marked from which we set an old cut spike for the true M.C.

1/4 Sec. E.

By flat measure from face of trees after which a tack in each old tree @ 9° var' bears as follows: S. 17° 18' E. 10.56 ft. N. 87° 45' W. 24.42 ft. to tack head, mark new trees as follows: White birch S. N. 23° 33' E. 10.45 ft. N. P. 6 S. 53° 14' E. 21.70 ft. correcting: @ hub 5847.60 we chain south 24.21 ft. to hub. 5823.39 then west 45.15 ft. while we drive a spike for the true 1/4 corner, on the east side of sec. 1 - T. 133 - R. 30.

SEC. 1, NE 12

1/16 Sec. 12

At hub. 3207.60 we chain south 13.25 ft. to hub. 3194.32; and west 24.77 ft. where we place the true corner, to sections 6-7-1-12 on line between T. 133-30-29: At 1887.60 we chain south 7.82 ft. to hub. 3187.78 then west 14.58 ft. where we drive a spike for the true 1/16 cor. At hub. 941.50 we chain west 7.30 ft. set stake for true line, coming back to spike 567.60 on ice, in-hole-in-the-day lake we chain 2.35 ft. south, 4.40 ft. west, where we drive a spike in the ice for the true 1/4 corner on east side of section 12-133-30.

3.4.9.10

July 2nd 1911, used transit, Chas. Palmer, Willis Rundel we go to the corner of sections 9-10-3-4-133-30 where notes call for black pine 6 N. 34° W. 30 links, black pine 7 N. 37 1/2° E. 27 links, black-pine 5 south, 11° E. 12 links, black-pine 5 S. 18° W. 44 links, we find the N.E. stump plainly marked B.B. and the root of the S.E. + N.W. stumps from which we set a wood hub for the true corner: An upturned green jack pine about 20 ft. S.E. is marked "B.B." with a jack-knife showing that B.B. Bartlett has been here, this is marked high up and is not an old government B.S. as the people first supposed.

15.16.21.22.

As all the corners south are hard to find we drive to the corner of sections 15-16-21-22-133-30, and walk north along the section line,

(MS. 27)

to the south side of Crow Wing River, where government notes call for a post and the following bearing trees, S. 12 S. 30° W. 45 links, Hornbeam 6 S. 46° E. 12 links, we find the S. W. tree green and plainly marked, + the root of the S. E. tree and set a 3x30 inch post for the true meander corner, 10 ft. from water and well up on high bank. And on

July 2nd 1911, we take the transit to Crow Wing River and work it out line at 9th var. + run north between sections 15-16. Palmer + Rundel wade the deep river and at 238.50, set flag pole in river from which they chain 170.50 ft. and set pin in north bank of river 10 ft. from water making 409. ft. Then plus 16.04 to station 425.54 set hub. for temporary meander corner, on north bank where notes call for white pine 14 N. 2 1/2 W. 147 links white pine 16 N. 56° E. 135 links the stumps appear to be all buried + we continue north. Chain 27.30 set hub. 4.52.34 then plus 47.56 and set stake marked 500 N. N. + E. transit 300 ft. stake.

(MS. 28)

(MS. 29)

July 5th 1911. at 662.60 set hub. @ 1296.30 set hub. 1400 set stake in stump in center of old road bearing E. + W. @ 1600 set stake and quit for night.

July 6th 1911 continue @ 1680 enter dry creek bottom, @ 1780 to same bears E. + W. @ 2142 cross road E. + W. @ 2262.50 set hub. @ 2366.70 wire R.R. fence. @ 2419.60 center of N.P.R.R. track @ 2472.20 wire R.R. fence, @ 2508 center of Crow Wing + Otter tail road bears E. + W. at 2736.80 set hub. @ 3950 enter east end of open meadow 3400 stake to meadow. 3535.60 set hub. @ 1400 several old roads bears E. + W. @ 4300 old road N.W. + S.E. @ 4305 hub. @ 4710 enter meadow @ 4810 wire fence runs E. + W. @ 5175 to meadow, @ 5209 set hub. @ 5500 set stake and quit this line for a few days.

(R.R.)

July 7, 1911, Harry S. Todd, transitman, C. Palmer, W. Rundel + Sumner P. Rogers at and chainmen, Todd and Rogers go with Robert E. Phillips to the corner of sections 10-11-14-15-183-30. where government notes call for black pine 8 N. 50° W. 12 lbs. black pine 14 S. 74° W. 142 lbs. black pine 8 N. 64° E. 41 lbs. black pine 12 S. 21° E. 67 lbs. we find all four trees plainly marked except the S.W. which has been burned all trees stand perfect for course, we set the corner by flat measure from face of P. V. marks distance between N. W. S. E. trees is .90 longer than government chain and the S.W. + N.E. trees distance is 1.57 ft shorter than government chain.

(10-11-14-15)

we set a hub + tack for the true corner by proportionate measurement after which the trees stand as follows, b.p. N. W. 7.78 ft. b.p. stump 14 S. 74° W. 92.51 ft. b.p. 8 N. 64° E. 26.70 ft. b.p. 13 (stump) S.E. 43.46 ft. 9th var. run west on 9.30 var. @ 270 enter open meadow @ 700 enter island of solid land in swamp @ 500 lb. same @ 1000 touch solid point of land from the south, @ 2500 lb. meadow, @ 3150 70 set hub @ 3561 set hub @ 4027.50 old post for fence corner going south, @ 4500 hub. @ 4800 enter meadow, 5400 set hub. 5610 main N. + S. wagon road, at 6900 set stake then chain 1020 ft west, and look for bearing trees but find none as the 4th between 9-16 appears to be gone.

(14-9-16)

July 8, 1911. At the corners to 9-10-15-16-183-30 notes call for a post and the following bearing trees P.P. 6 N. 72° W. 132 links, P.P. 10 S. 35° E. 223 links, N.P. 20 S. 79° W. 206 links no other tree near, We find the old S.W. Norway Spruce and a little rotted but quite well marked, from which we set the true corner and then check up our transit line as follows.

(9-10-15-16)

Sury. Record No 163 continued

At a point 4580.40 ft. north of the meander corner set on the south side of Crow Wing river, the true corner to sections 9-10-15-16 bears west 138.40 ft. and at a point 5332.40 ft. West of the corner of sections 10-11-14-15 the true corner to sections 9-10-15-16 bears south 2.15 ft. The $\frac{1}{4}$ corner between sections 10-15-15-16 is gone.

$\frac{1}{4}$ (9-10-15-16) Curo goes to Walker, and Todd takes the transit, Palmer & Rundle assisting, beginning at 5500 N. continue the line N. Det. sec. 9-10; at 5688.50 set hub. @ 5780 enter open meadow, 7125 to same, enter foot hills @ 7526.85 wire fence, enter open field (we are nearly 300 ft. E. of the N.S. wagon road) @ 7720.10 set hub. 7900 foot of large hill 8219.70 hub. top of hill, 8659.40 hub. 9049.90 set hub. 9000 cross rail fence, enter open field, @ 10222.30 the true corner to sections 3-4-9-10-133-30 bears N. 18 $^{\circ}$ W. Todd & Palmer correcting back.

July 9, 1911. Beginning at sections 8-4-9-10-133-30 run north on 9 $^{\circ}$ magnetic var. at 930 cross rail fence, 960 set hub. @ 1265 tail fence runs E. & W. @ 1290 center of old road runs E. & W. @ 1973 center of wagon road, N.E. & S.W. $\frac{1}{4}$ 2230.25 hub. 2274 wagon road bears N. 15 $^{\circ}$ W. @ 2345 wagon road bears N. 15 $^{\circ}$ E. @ 2640 temp. $\frac{1}{4}$ post. The old $\frac{1}{4}$ appears to be gone.

July 10, 1911. Continue North at 2694 hub. @ 2998.70 hub. @ 3464.70 hub. @ 4254.90 set hub. 4924.50 hub. 4992 center of road E. & W. @ 5069.70 true corner set N. 9820 ft. at this point being the corner of 3-4 on the north side of Township 133 P. 30, government notes call for P. 6 N. 41 $^{\circ}$ E. 9 lks. P. 6 N. 6 $^{\circ}$ W. 17 lks. P. 7 N. 74 $^{\circ}$ W. 10 lks. P. 7 S. 63 $^{\circ}$ E. 44 lks. We find two of the bearing trees plainly marked from which we set the true corner by flat chain from face of the trees then correct the line back south. The temporary $\frac{1}{4}$ post goes south 65.30 ft. West 46.45 ft.

July 29, 1911. Harry S. Todd transit, W. P. Jones assisting go to the corner of 10-11-14-15 T. 133-P. 30 previously set by Curo and pull up the wood hub & put in its place, a 3 inch iron monument 3 ft. long and filled with cement. Going to the corner of 9-10-15-16, T. 133-P. 30, previously set by Curo, we put in the same kind of an iron pipe 3 ft. long, by 3 inches thick & filled with cement.

Aug. 3, 1911. Todd transitman; Chas. Ellige and Lawrence Hines assisting, at the corner to sections 11-12-13-14-133-30 gov't. notes call for N. P. 14 N. 34 $^{\circ}$ E. 5 lks. N. P. 20 S. 45 $^{\circ}$ W. 6 lks. B. P. 5 S. 12 $^{\circ}$ E. 64 lks. we find all three trees standing plainly marked from which we set the corner by proportional measurement from face of the trees & set a hub. for the true corner: run west 9 $^{\circ}$ 20' var. @ 1820 temp. $\frac{1}{6}$. @ 2640 temp. $\frac{1}{4}$. bearing trees and stakes are gone.

Aug. 4, 1911, @ 3960 temp. $\frac{1}{6}$ corner. @ 5369.70 intersect the iron cor. previously set by me, for the cor. to sections 10-11-14-15. Run correct back.

Aug. 5, 1911. C. Ellige, Sester Parsons and Todd, drive to the cor. of sections 11-12-13-14-133-30, set by Todd, and pull up the iron stake & set an iron post filled with cement and in cement. 3 ft. x 3 inches.

Sept. 22, 1911. Lued transitman, Chas. Johnson assisting. Go to the cor. to sections 16-17-20-21-133-30. where gov't. notes call for B. P. 10 N. 36 $^{\circ}$ E. 51 lks. B. P. 10 N. 41 $^{\circ}$ W. 101 lks. B. P. 10 S. 35 $^{\circ}$ E. 16 lks. B. P. 5 S. 20 $^{\circ}$ W. 55 lks. By digging with a shovel we find a hub. in center of wagon road set by the Morrison Co. Surveyors, last summer, from old fence corner and it is nearly correct.

16-17-20-21

Sept. 23, 1911. John P. Hanson, & Curd dig up the wood hub and find a stone 3 ft. under ground plainly marked on four sides, the stone is 6x6x18 inches & across in top end of stone, sets 2 inches N. E. of center of wood hub, so we preserve the point of the center of the cross in the stone as the true section cor. Dig the hole deeper, lay the stone on its side and set a two in galvanized pipe, 3.30 ft. long not capped, in a bed of cement for the true corner, this pipe sets directly on top of the stone and its position is at a point where the cross was in the stone before we dug it up.

M.C. No. 41
20-21

Sept. 24, 1911. J. P. Hanson, Ed. Parks & Curd, go to the meander on N. side of Crow Wing river between sections 20-21-133-30, where govt notes call for Oak 14 N. 67 1/2° W. 92 lks. W.P. 40 N. 15° E. 83 lks. we find the big oak tree standing green plainly marked +, the stump of the white pine from which we set post for M. C. by flat chain from face of the trees and bore a hole through bridge, through which we drop a plumb-bob, and set a 1/2 inch galvanized pipe 8 ft. long well into the ground in a bed of cement for the true meander corner.

16-17-20-21

M.C. 41

Beginning at the corner of sec. 16-17-20-21 run south 9° 15' var. at 162.60 set hub in road, @ 987.14 set hub 1187.19 set hub @ 1320 ft. set three little pegs @ 1748.7 end of bridge @ 1800 pencil mark on bridge, @ 1802.75 sugar pole directly over meander corner, we find the distance 50.88 ft. short. as 1853.25 ft. govt chain = 1802.75 my chain. To correct north, post set at 1320 should go north 35.99 ft. to 1284.01 but we do not set it.

As we intend to survey a new county road along north side of Crow Wing river from this point and do not care to cross a fraction of land sold to Siga Johnson, & Olaf Johnson, I will describe the land as follows: "Beginning at the S.W. cor. of govt lot no. 1 sec. 21. T. 133 N. R. 30 W. being the meander corner on the north side of river; thence east 33 ft. thence north keeping 33 ft. east of the sec. line, 277.20 ft. to a stake for corner; thence east 198.00 ft.; thence north 72° E, 124.70 ft. to a stake; thence south to river bank, thence west along said river bank, to point of beginning, containing 2 1/2 acres, and will be known as out lot no. 1. Johnson's addition to Pillager, Minn. when platted."

This land was sold to W.A. Burton, July the 2nd 1906.

16-17-20-21

M.C. 28

Sept. 26, 1911. John P. Hanson, Ed. Parks and Curd, A & B. transit 300 ft. Chicago steel tape, beginning at the corner to sec. 16-17-20-21-133-30 run east on 10° 30' var. @ 1130.25 set hub @ 1900.90 hub @ 1948.40 set hub @ 2016.96 small hub in meadow, Iron hub 1948.40 plus a stadia reading of 436 ft. = 2384.40 ft. my chain, the meander corner on the east side of Crow Wing river bears N. 14 ft.; correcting back we set hub 1900.90 N. 11.16 ft. where we drive a hub on line then cut brush E. & W. as a check up and find it correct as to line.

M.C. 40
16-21

At hub 2016.96 we chain N. 11.84 where we find an old stake and place a 1/2 galvanized pipe 10 ft. long in a bed of cement for the true meander corner on the W. side of Crow Wing river and on line between sections 16-21, where notes call for oak 10 N. 2' W. 91 lks.

163

M.C. 40
Sec's 16-21
1/16

Chm. 20 S. 67° W. 103 links, we find the roots of the old trees which check out perfect. Going West to hub. 1200 we chain east 120 ft. to hub 1320, then plus 1.32 ft. and set hub 1321.32 then north far enough to catch the true sec. line and set the true N.E. corner; by driving a two inch galvanized pipe, 3 ft. long. - We go to meander corner on east side of Crow Wing river between sections 16-21 - where notes call for N. 22° S. 6° W. 73 lks. Chm 8 N. 32° E. 49 lks. we find the stump of the pine standing plainly marked from which we set a galvanized iron 2 inches by four ft. in a bed of cement for the true meander corner.

M.C. 28.

Sept. 26, 1911, Curs, Ed. Parks, and Art Seyerine, & W. Mann work all day with transit set at corner to sections 16-17-20-21-188-30 focus telescope on true line east; needle read 10° 45' magnetic var. turn telescope south to meander corner in bridge, angle reads 91° 22' bet West line & north line of sec. 21 at N.W. corner.

16, 17, 20, 21

Beginning at N.E. corner of gov't lot no. 1, sec. 21-133-30, turn telescope on backshot on true line then turn south 91° 22'; and run parallel to West boundary of sec. 21: @ 33 ft. set hub south side of road limits: @ 330 set hub. at S.E. corner of creamery land; From the N.E. corner of gov't lot no. 1, run West on sec. line 264 ft. and set the N.E. corner of cement block "two acres". then run south 33 ft. and set hub. on south side of road limits, then 297 ft. more, @ 330 set hub. for S.W. of creamery land, from a hub set 264. + 264 = 528 ft. N. of the N.E. corner, of gov't lot, we run south parallel to west boundary of the sec. @ 33 ft. set hub. for road limits, then 297 ft. to hub. 330 and set S.W. corner of cement block "two acres". The 33 ft. road is measured in with creamery "two acres" & cement block "two acres" and they, instead of Ed. Parks, loose the ground the road takes.

Creamery land
Cement Co
land

M.C. 41

Beginning at station 0, being the M.C. on N. side of Crow Wing river run north along sec. line between 20-21 and at 293.70 set station 0, then east 33 ft. to sta. 1 being 16.50 ft. of land described in the deed held by Siga and Olaf Johnson. From sta. no. "0" turn telescope on auger hole in bridge over M.C. and swing telescope east 91° 22' angle and run east parallel to north boundary of the section, at 33 ft. set hub. sta. no. 1, thence 198 ft. further on being 231 ft. from sec. line, set hub. for sta. no. 2, being 16.50 ft. N. of Siga & Olaf Johnson's land. thence N. 72° E. 128.70 ft. to sta. no. 3 being 16.50 ft. N. of N.E. cor. of Siga & Olaf Johnson's land.

Johnson
deed

At sta. 3 we put in bearings as follows: oak 10 N. 47° 11' E. 38.18 ft. Jack-pine 14 S. 53° E. 29.56 ft. to tack heads drove in trees at 10° 45' var. Run N. 85° 30' E. 300 ft. to sta. no. 4, thence north 76° 30' E. 155 ft. to sta. 5, thence N. 61° 16' E. 60.70 ft. to sta. no. 6, being a hub. 1119.85 ft. south of N.E. corner of gov't lot no. 1. put in bearings as follows: Jack-pine 10 S. 55° 5' E. 37.68 ft. Jack-pine 8 N. 53° 29' W. 59.13 ft. tack

Beginning at N.E. cor. of gov't lot no. 1, run south parallel to west bdy of the sec. @ 330 hub. @ 630 hub. @ 930 hub. plus 159.85 = 1119.85 intersect hub. at sta. 6. From sta. no. 6 we run south 66° 28' E. 398 ft. to sta. no. 7, thence N. 32° 18' E. 325 ft. to sta. no. 8.

Sept. 27, 1911. Thence north 13° 2' E. @ 300 set pin, @ 545 ft. a creek

runs S. E. coming up from the S. W. 1/4 @ 600 set pin, @ 695 set hub, sta. no. 9
 thence N. 7° 7' E. 143.60 ft. to sta. no. 10, being hub. on sec. line 33 ft. N. of M.C.
 between sec's 16-21, on W. bank of Crow Wing river. At this M.C. we have
 set a 1 1/2 inch galvanized pipe, 18 ft. long, in a bed of cement, for the true
 corner, which checks out with the roots of the old bearing trees. (M.C. 41)

Will Parks digs up an iron stake, supposed to have been set by
 some surveyor, @ the 1/4 corner between sec. 16-17. And in the P. M. I
 put in a 2 inch galvanized pipe 4 ft. long, no cement. (1/4 Bet 16-17)

The iron dug up by Parks is an old cast slide shoe, at this point
 notes call for N. 7° 7' E. 29° N. 14 lbs. Balm Gilead @ N. 57° E. 123 lbs. we find the root
 of a willow which sets perfect for course & distance, work transit on (N. 17
 20-21)
 line between this 1/4 just set, & the iron corner to sections 16-17-20-21-183-30
 run south; @ 470 center of small bridge, 3 ft. E. of E. end. 1 @ 1006
 center of side track, @ 1062 center side track, @ 1100.70 center of main line of
 railroad, @ 1352.60 cement walk, 1353.70 cut across (+) in cement walk
 which bears E. & W. @ 2640.20 intersect iron sec. cor.

All courses turned from the true meridian

Recorded Dec. 5, 1911.

John W. Curo
 County Surveyor of Cass Co.
 Minn.

- NOTES -

Sec	Cont'd On Page of Book	
1	" 425	A
3	" "	"
4	" "	"
9	" "	"
10	" "	"
11	" "	"
12	" 425	A
13	" 425	A
14	" "	"
15	" "	"
16	" "	"
17	" "	"
20	" "	"
21	" "	"

Field notes of the survey of a part of Twp No. 134^N Range No. 29 and 30 W. 5^{PM} through Sections 7, 18, T. 134 R. 29 and Sections 12, 13, 33, 34 T. 134 R. 30^W as made by Harry S Todd Deputy County Surveyor of Cass Co. Minnesota. Examined, approved and recorded by John W. Curo County Surveyor of Cass Co. Minn. We use a K & E Transit and a 300 foot Chicago steel tape

July 2nd 1911 John W. Curo transitman; Willis Rundell Chas. Palmer ex. & Chairman; go to the corner to Section 3, 7, 9, 10, T. 133^N R. 30^W where notes call for Jock pine 4^N 34^W 30 links Jock pine 7^N 37³⁰ E 27 links Black Pine 5^S 11⁰ E 12 links Black pine 8^S 18⁰ W 47 links We find the NE stump plainly marked "B.T." and the roots of the SE & NW stumps from which we set a wood hub for the true corner: an up-turned green Jock pine about 20 feet SE is marked "B.B." with a Jock knife showing that B.B. Borlett has been here some time in the past this is marked high up and is not an old goat bearing but as the people here supposed.

3, 4, 9, 10
T 133-20

July 9th 1911 Harry S Todd transitman Rundell and Palmer crossing In order to put in the corner to Secs 33 & 34 to Township 134^N 30^W 5^{PM}. Begin at the corner to Secs 3, 4, 9, 10, T. 133-30 and run N. on 9⁰ cor' at 950 cross rail fence 965 set hub: at 1265 rail fence E & W: at 1290. Cen of old road E & W at 1973 feet Cen of wagon road NE & SW. at 2230. 25 Hub at 2274. wagon road bears N 15⁰ W at 2348 wagon road bears N 15⁰ E: at 2670 limb of post should goat cor' cannot be found so we continue North:

S.E. cor' 33
S.W. cor' 34

July 10 1911: at 2694 set hub: at 2998. 70 ft. set hub: 3769. 70 Hub: 4284. 90 set hub: at 4929. 50 ft set hub: at 4992. Cen of road E & W. at 5069. 70 ft the true corner to sections 33 and 34 T. 134 R. 30 sets west 98. 20 feet at this point being the corner to sections 33 & 34 on South side of Twp 134-30 goat notes call for: Pine 6 N 71⁰ E 9 links: Pine 6 N 6⁰ W 15 links: Pine 7 N 74⁰ W 10: Pine 7 S 63⁰ E 44 links:

33-34

We find 2. of the trees plainly marked from which we set the true corner by flat measurement from face of the trees
We drive a wood stake for the true corner

July 31st 1911 Harry S Todd Transitman: C.M. Hough Chairman & ex. man: K & E transit 300 foot Chicago steel tape: going to the corner of sections 7, 12, 13, 18. on line bet- T. 134^N R. 29 & 30 W. where the notes of the govt survey call for two Bur oaks, one Birch and one pine bearing trees
We find the pine plainly marked from which we set an iron monument filled with cement, set in a bed of cement for the true corner: The monument is iron pipe 3 inches thick by 3 feet long and is set at the true Section corner. Run East at 159⁰ set hub: at 300 set pin 600 set pin at 683. set hub

12-13, 134-30
7-18 T. 134-29

7-18-7134-29

at 9.55 set hub: at 10.50 enter field at 13.20 set limps 1/16 corner: 1565
set hub: at 19.20 set hub: 2836.75 set hub: at 26.40 feet set hub for
temporary 1/4 corner where all of the bearing trees are gone and we
continue East: at 3021.70 feet set hub in edge of bank about 50 ft
West of the water's edge of Gull Lake:

Aug 1st 1911 We correct up our lines temporarily and Todd
goes to Walker for more field notes:

NO. 56 7134-29

Aug 26 1911 Todd, transitman: Chas Von Sickle, Shel Payne
existing in showing and cutting brush: Beginning at the non
monument previously set by Todd at the corner to sections 7-18-
of T 134 R 29, being the corner to sections 12-13 of T 134 R 30 run South
to Gull Lake where we establish the true Meander Corner from one
old goat bearing tree and find it sets 4 feet west of our transit line:

Going back to the non monument being the NW Cor of Sec 18 T 134
R 29 we establish the true course of the Range line running South from
which we turn a true 90° right angle and run East

1/16 Secs 7-18

Aug 27th 1911 Continuing East on true line: at 13.20 feet we
set the true 1/16 corner: then continue East to the lake: Coming back to
the 1/16 corner we carefully turn a 90° angle to the true North boundary and
run South parallel to the west township line: We run South
to Gull Lake and quit for the day all courses turned from the
true meridian

Recorded Dec 5 1911

John W Curo
County Surveyor Cass Co Minn

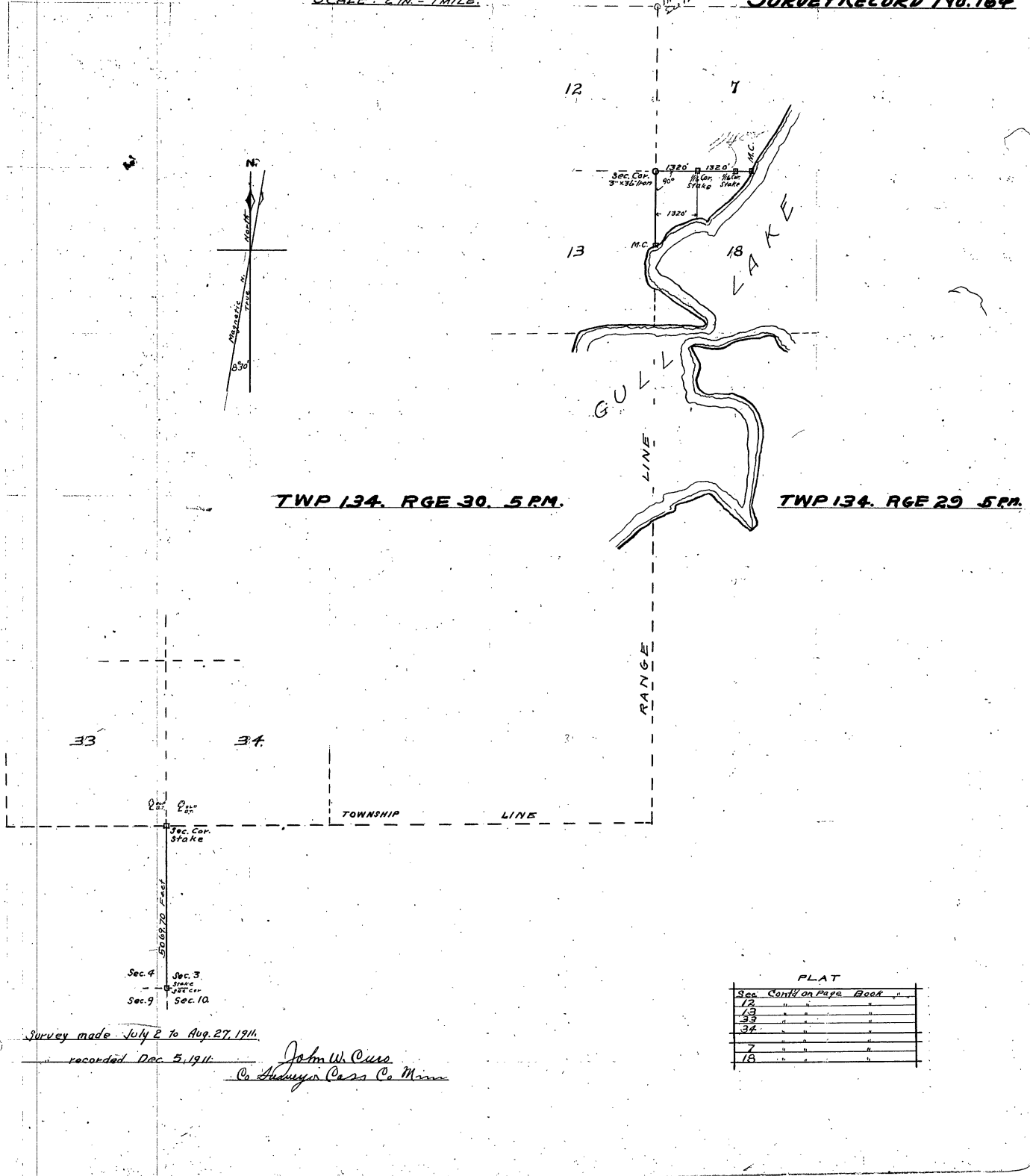
NOTES-

See Cont'd On Page of Book					
12	*	*	*	*	*
13	*	*	*	*	*
33	*	*	*	*	*
34	*	*	*	*	*
7	*	*	*	*	*
16	*	*	*	*	*

PLAT
SECS. 12, 13, 33, 34, T. 134 N., R. 30 W.
& SECS. 7 & 18, T. 134 N., R. 29 W.
5TH P. M.

SCALE: 2 IN. = 1 MILE.

SURVEY RECORD No. 164



TWP 134. RGE 30. 5 PM.

TWP 134. RGE 29. 5 PM.

PLAT

Sec.	Cont'd on Page	Book
12	"	"
13	"	"
33	"	"
34	"	"
7	"	"
18	"	"

Survey made July 2 to Aug. 27, 1911.
 recorded Dec 5, 1911.

John W. Cuss
 Co. Surveyor, Cass Co. Minn.

Township N^o 139th Range N^o 28th 5 P.M.
 Survey Record N^o 165

SURVEY RECORD No. 165

Field notes of the survey of a part of Township N^o 139th Range N^o 28th west 5th principal Meridian as made by John W. Curo County Surveyor of Cass County Minnesota through Sections 3, 4, 5, 7, 8, 9, 10, 15, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 30, 31.

Oct 26 1908 Wm Burfield: Leonard Burfield: Anson Beals: Geo

19-30 Curlis and I. K & E transit: at the corner to Sections 19 & 30 on the west line of T. 139. R 28 we find all of the old government bearing trees plainly marked and set a tall 4 x 4 lim' post for the true corner: run East on 8° 00' at transit line - rough

chain: at about 1000 feet cross creek twice: bears westly: at 1146.42 set square stake for lim' post 1/16: at 1320 stake 2466.42

1/4 set stake marked "lim' post 1/4" Bearing trees are gone: at 3786.42

19-20
29-30 set stake marked "lim' post 1/16" at 5106.42 set stake lim' post sec cor to sec 19, 20, 29, 30 at which point we find none of the bearing trees and beginning at the stake just set we continue East, at 630 ft enter creek 100 ft NW of outlet of lake: at 700 to creek and follow a few rods north of lake: at 1320 set lim' post 1/4 at a point 100 ft north of lake 2100 cross 10 foot creek. 2640 set stake and quit for night

114
20-29 Oct 27-1908 at the 1/4 cor bet sec 20 & 29 the bearing trees are gone and we continue East at 8° 00' at 3960 ft lim' post 1/16 at which point the notes call for: yellow pine 20 N 45° E 36 links: White Birch 5 S 24° E 25 lbs: White pine 7 N 21° W 20 lbs White Pine 5 S 68° W 17 links we find the corner about 200 feet

West of our hub N^o 5280 and 153 feet N. of our transit line. We find the NE & NW bearing trees plainly marked from which we set a square stake for the true corner after which the NW line stands N 17° 45' W 13.20 feet: I did not take the course to the NE line: the two south trees are gone: We did not correct up the two miles of line on the south side of 19 & 20 but left the transit and took the compass and run a good clean compass line East to the SW corner of Section 22 being the corner to Sections 21, 22,

21-22
27-28 27 & 28: we do not find the bearing trees but find an old stake and I put in a new big stake not marked neither is it the true corner but will do for a land mark till I can get time to make a regular survey: From hub 5280 my new stake just set bears S 28° 30' E 19 1/2 feet 1/8"

16-17
20-21 Run N. on 6° 40' 00": at 2690 stake 1/4 is gone: at 5280 we do not find the bearing trees but set a stake from which we run West 7° 40' 00": at 2640 no bearing trees: at 5280 we do not find the bearing trees at 5400 we intersect an old blazed line running N. & S. at a point 50 feet S. of an old stake set for the corner to Sections 16, 17, 20, 21 We pay no attention to the old stake but set a new stake at the intersection of our lines with old blazed line, which we mark "preliminary survey" "Set by Curo"

From this we run North bet Secs 16 & 17 @ 8° Var: at 2640 we find no bearing ties at 5280 all traces of the corner are gone and we set stake run 3960 feet West to the swamp and quit the line.

9-10-15-16

June 9 1911 Harry D Todd transit man: Earnest Thomas & Lawrence Sheppard, Leslie Shepard assisting: going to the corner of sections 9-10-15-16 - T 139 R 28 we find the stumps of all the old bearing ties from which a stake set by Curo stands perfect for position for the corner. We run West at 8° 28' Var set hubs and stakes and at 2283.75 ft we quit for night.

1/4 9-16

June 10-1911 Continued at 2640 feet set stake and on the 1/4 corner between Secs 9 & 16 is gone we continue: at 5225.88 feet we set hub but the corner to Secs 8-9-16-17 is gone and we continue west:

8-9-16-17

June 12 1911 Beg @ limp cor at 5225.88 run west at 300 set stake: at 835.90 set hub: at 2640 feet set hub and on all of the bearing ties to this 1/4 corner between 8 & 17 are gone we continue our transit line west:

1/4 8-17

June 13 1911 at 3300 set stake @ 3442.40 set hub at 5247. feet set temporary corner to sections 7-8-17-18 139-28 but as all the old marks are gone we continue west:

7-8-17-18

June 14 1911 Beg @ Hub 5247. at limp corner we continue our transit line west: at 26.90 feet set hub at 300 set stake at 2640 set limp 1/4 bet Secs 7-18 but as the corner is lost we continue our line: at 2700 set stake: at 3162.40 set hub at 4029.50 set hub and quit for night.

1/4 7-18

June 17-1911 Harry D. Todd T. Shepard and Lawrence Shepard pull up the wood hub at the corner to Sec 9-10-15-16 139-30 and put in its place a cement post 8x8x36 inches in size for the true corner. Going to the corner to sections

9-10-15-16

3-4-9-10 139-28 we find a wood stake set by Curo for the true corner and after checking up on the old bearing ties and finding it correct we pull up the stake and put in its place an 8x8x36 inch cement post for the true corner.

3-4-9-10

Going to the 1/4 corner between sections 3 and 4 T 139- R 28 we find an old stake set by Curo for the true corner and after checking up on old bearing ties and finding it correct we pull up the stake and put in its place an 8x8x36 inch cement post for the true corner.

1/4 3-4

NE. Cor 4
NW. Cor 3

Going to the corner of sections 3 and 4 on the North side of township 139ⁿ R 28^w on the town line we find a stake set under a culvert by John W. Curo for the true corner: we pull up the stake and put in its place an 8x8x36 inch cement post for the true corner.

7-18

June 21st 1911 Going back to hub 4029.50 which we set June 14-11 we continue the preliminary transit line west between sections 7 and 18 139-28 and at 05249.20 feet the true corner to sections 7 & 18 139-28 sets North 179.10 feet we find the old stake and

M.C. No. 1.
Sec 7-18

The roots of the old government bearing trees which check out correct and by running 54 links north we find the bearing trees from which we set a stake for the true meander cor. no. 1 on the south side of hay lake and on the west line of sec. 7-139-28. From the new stake we have set at the corner to sections 7-18 north to M.C. No. 1. we find the distance checks out with government chain of 54 links.

4-5-8-9

Going to the corner of sec. 4-5-8-9-139-28, we find the stump of the old N.E. bearing tree, called for in the government field notes and from this we set a new wood stake for the true cor. and run south on 8° magnetic var.;

1/4 8-9

At 960 feet enter open meadow. at 2806.70 feet set hub, leave meadow @ 2679.60 set hub, the old 1/4 corner between 8 & 9 is gone & we continue south @ 2700 set stake.

8-9-16-17

June 22, 1911 continuing, at 5319.60 set temporary corner post. We find no bearing trees to the corner of sections 8-9-16-17, so we continue south. at 19.50 we cross our E. & W. transit line. @ 300 ft. set stake, @ 600 set stake, @ 2640 temp. 1/4 cor. between sec. 16-17; all the old marks are gone @ 3566.30 set hub. and quit for night.

1/4 16-17

16-17-20-21

June 23, 1911 continuing; at 5280 ft. set hub. to temp. cor. to sec. 16-17-20-21. All traces of the corner are gone and we continue @ 300 set stake, @ 600 set stake, @ 2408.20 the true 1/4 corner between sections 20-21-139-28 set N. 345 ft. At this point we find the bearing trees from which we set the true 1/4 cor. between sections 20-21-139-28.

1/4 20-21

8-9-16-17

June 24, 1911 Going to the corner to sections 8-9-16-17-139-28. we correct over the lines and from proportionate measurement of all the lines we have run, we establish the true corner from which we set a cement post 8x8x36 inches in size well into the ground.

SW Cor 30
NW Cor 31

Nov. 23, 1911. John W. Curo transitman, Mike Smith chairman go to the corner of sec. 30-31, on the west side of township 139-28 previously established by Curo, from all four bearing trees go to notes call for a post and the following trees, Jack-pine 10 N. 18° E. 4 lks, Tam. 4, S. 61° E. 2 1/2 lks. Spruce 78, 50° W. 16 lks; Jack-pine 6, 71, 30° W. 16 lks. The N. W. Jack-pine is still there but the figures are nearly burned off and it is down and out by the roots. the stump of the N. E. Jack-pine is still in place from these we set a two inch galv. pipe, four ft. long & capped on the top, well into the ground, for the true corner, from which the old tam & spruce roots check out for position. we mark new bearings as follows, Jack-pine 10 N. 5 1/2° E. 68.70 ft. Jack-pine 3 N. 19° E. 27.65 ft @ 8° 20' var. set with a curly compass. Our iron corner sticks up 18 inches in edge of swamp.

SW Cor 19
NW Cor 30

Going to the corner of sec. 19-30 on the west side of T. 139-28 previously established by Anson Beals, and John W. Curo; Beals & Curo now pull up the square post that was set years ago.

And put in its place a 2 inch galv. pipe, capped on top, four ft. long, well into the swampy ground for the true cor.

And put in new bearings as follows, dead tan. 12 N. 21st W. 46.60 ft. to a tick head set with a quill compass, and a 100 ft steel tape

Dec. 1 - 1911, 10, A.M. Anson Beals pulls up the wood stake previously set by himself & J. W. Curo, at the corner to sections 20-21-28-29 T. 139-R. 28- and put in its place a galv. 2 inch pipe capped on top and four ft. long, well into the ground for the true corner.

20-21
28-29

Recorded Dec. 5, 1911.

John W. Curo
County Surveyor of Cass Co.,
Minnesota.

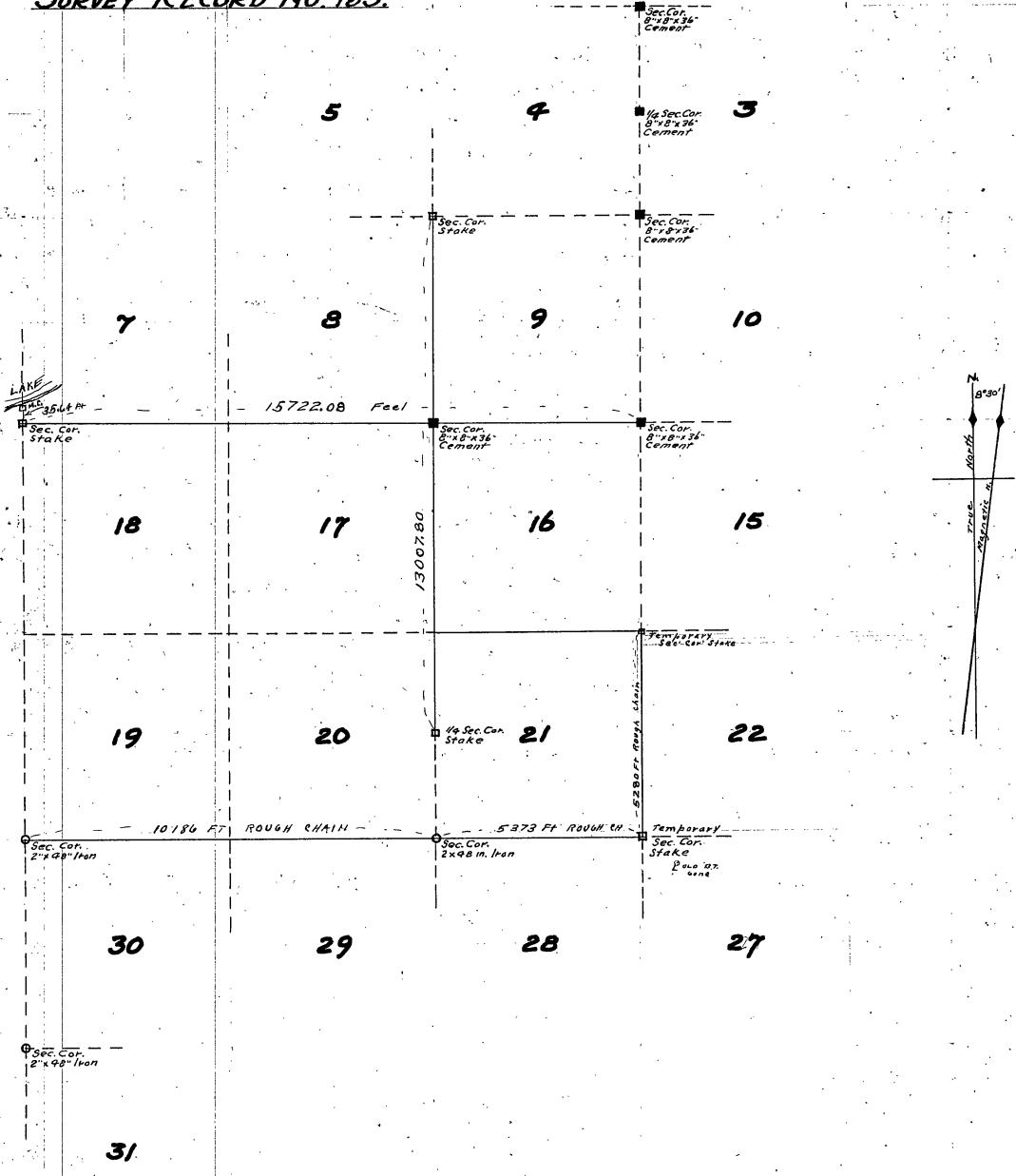
-NOTES-

Sec	Cont'd	On	Page	of	Book
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9	"	"	"	"	"
10	"	"	"	"	"
15	"	"	"	"	"
16	"	"	"	"	"
17	"	"	"	"	"
18	"	"	"	"	"
19	"	"	"	"	"
20	"	"	"	"	"
21	"	"	"	"	"
22	"	"	"	"	"
27	"	"	"	"	"
28	"	"	"	"	"
29	"	"	"	"	"
30	"	"	"	"	"
31	"	"	"	"	"

PLAT
SECS. 3, 4, 5, 7, 8, 9, 10, 15, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 30, 31.
T. 139 N., R. 28 W., 5TH P.M.

SCALE: 2 IN. = 1 MI.

SURVEY RECORD NO. 165.



Survey begun Oct. 26, 1908.
 " finished Dec. 1, 1911.
 " recorded Dec. 5, 1911.

John W. Ows
 C. Surveyors, Cass Co. Minn.

PLAT.

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Survey record N^o 166.

33-34

Field notes of the survey of a part of Township N^o 140th Rang N^o 28th 5th Principal Meridian thro sections 33 and 34 as made by John W Curo County Surveyor of Cass County Minnesota and Harry D. Todd, Deputy County Surveyor of Cass Co Minn

33-34

May 18 1910. John W Curo transitman N & E transit: Jim Shepard and Geo Standon Chairman: Ben Brett. Earnest Thomas; Laurence Shepard & men Beg @ NE Cor Sec 33 being the SW Cor Sec 34 of Twp 140th Range 28th they show me an old stake set by me three years ago from all four bearing trees some of which have since been cut but the stumps are still there: I pull up the old stake and put a new one in its place and run North on 7^o 50' on between sections 33 & 34 thro green low swamp: at 300. 600, feet set stake @ 778.60 lock in low log: 30 feet west of Jack pine point at 900 set stake in center of 10 foot creek which bears East Hill in swamp: at 1320 set stake - still in swamp: @ 1375 Lv Swamp: enter Jack pine point 1422. lock in birch stump: at 1500 enter swamp. 1620 set stake in swamp: at 1839 set hub near near Ben Metzgers land bears E & W: at 2040 Lv swamp at 2220 set stake: at 2520 set stake on south brow of hill at 2576.60 hub on hill: at 2640 set stake: the line 1/4 corner between sections 33 & 34 bears 11.90 feet North and 23.60 feet west so that at 2651.90 the line 1/4 corner between sections 33 & 34 140-28 bears West 23.60 feet

1/4 33-34

At this point the notes call for a post and the following bearing trees: white pine 7 N 80° W 37 links: White pine 10 N 60° E 22 links: We set the post by flat-measurement from face of the trees after which the trees stand as follows: Jack pine 10 N ~~77° 23'~~ 81° 23' W Jack pines 12 N 64° 17' E. Correcting back we set hub N=1320, North 6 feet and 11.80 feet west Hub 778.60 we set West 6.93 feet

June 17th 1911 Harry D. Todd transitman: T. Shepard and L. Shepard find the stake set by Curo for the line corner to sections 33 and 34. on the south side of Township N^o 140. Range 28. they pull up the stake and put in its place an 8 x 8 x 36 inch cement post for the line corner

Recorded Dec 5 1911

John W Curo
County Surveyor Cass Co Minn

NOTES-

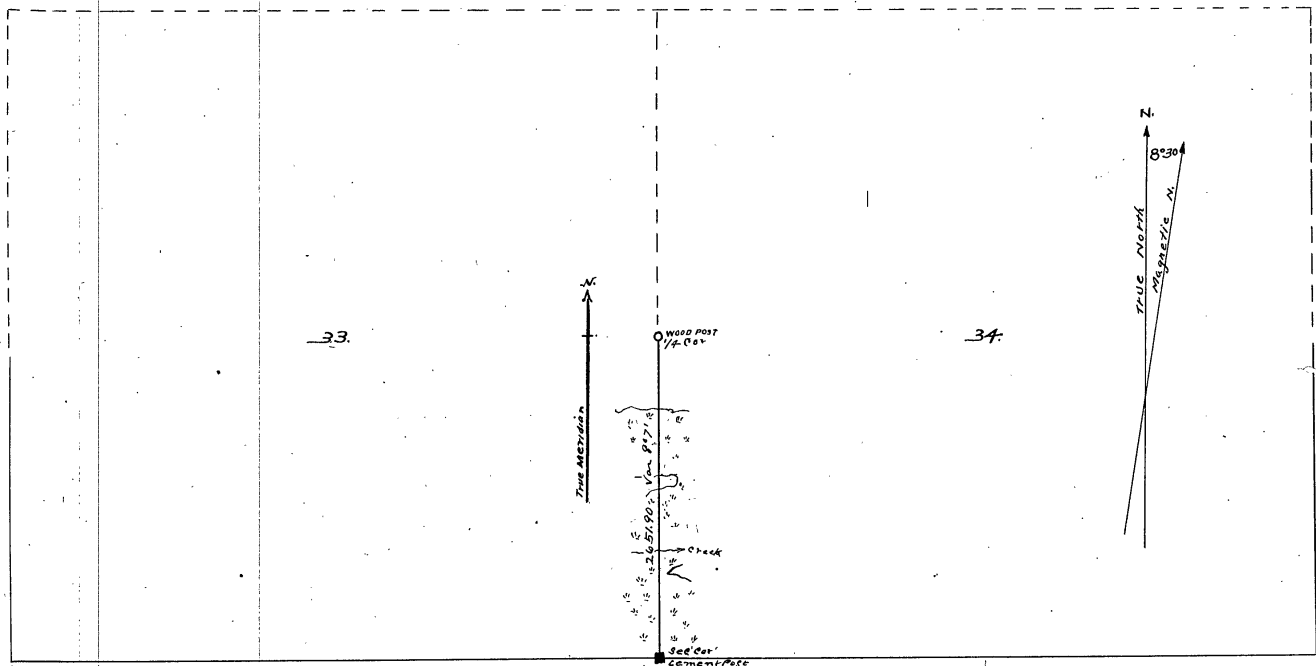
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33
34

Survey record No 166.

PLAT OF

Sections 33 & 34 T. 140. R. 28 5th P.M.

Scale: inches = one mile



Survey begun May 18, 1910
 finished June 17, 1911
 recorded Dec 5, 1911

John W. Cuss Co. Surveyors
 Cass Co. Minnesota

PLAT

Sec Cont'd On Page of Book
33 " " " "
34 " " " "

out

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Survey record N=167

No. 167.

Sec	Continued from	Page	Field notes of the survey of a part of Township N=139 ¹ / ₂ Range N=30 ^W
4		134	5 th Principal Meridian through Sections 3, 4, 5, 8, 9, 10, 19, 20, 21, 22, 23.
5		137	24, 25, 26, 27, 28, 29, 30, 34, 35, 36 as made by Harry S Todd
8		138	Deputy County Surveyor of Cass County Minnesota; Examined,
9		141	approved and recorded by John W Curo County Surveyor of Cass Co
20		150	Minn
21		153	Sept 1 st 1911 Harry S Todd Transitman. B.L. Perry assist-
22		162	ing Mr. Jure a Keuffel & Esser Engineers Transit and a 300 foot
27		165	Chicago Steel tape.
28		157	Going to the corner of Sections 21-22, 27, 28 139 30 where
29		154	there is an 8 x 8 x 36 inch, cement post set by Curo for the true corner
30		166	we ran West on 8° 45' magnetic variation and set stakes for the true road
21-22-27-28			center.
20-21-28-29			Sept 2 nd 1911 Todd Transitman: Martin Pepriger and Andrew
19-20-29-30			Tils assisting: We go to the corner of Sections 20, 21, 28, 29, 139-30
1/4 bet' 20 & 29			previously established by Curo and ran West on 8° 30' var;
1/4 bet' 13 & 24			at 2630.76 feet set hub: old corner is lost: at 5313.40 the
1/4 bet' 13 & 24			true corner to Sections 19, 20, 29, 30, bears South 49 feet This
			corner has been set by Curo and we find his hub and tack
			then go back and set the 1/4 corner between Sections 20 & 29.
			Sept 3 rd 1911. Todd, B.L. Perry, Floyd Perry, John
			Nobler and A.O. Noller: go to the 1/4 corner between Sections
			<u>13 & 24 139-30 previously established by Curo Sept</u>
			Sept 4 th 1911. run South on 9° var: at 700 feet center
			of wagon road: bears E & W: @ 1200 set stake quit for the
			day - rained.
			Sept 7 1911 Continue over line: at 2545. Cross road
			bearing N/W & S/E: at 2640 set hub: at 3900 set stake
			and quit for night:
1/4 24 & 25			Sept 8 1911 Continue: at 5278. feet the true
1/4 E. side 24.			1/4 corner to Sections 24 & 25 T 139-30. bears West 27.00 feet
			At this point we find two old Government bearing trees from
			which we set a wood stake for the true 1/4 corner then go back
			and find the bearing trees to the 1/4 corner on the East side
			of Section 24 T 139- 130 from which we set a wood
			stake for the true 1/4 corner and run West on 5° var
			@ 1300 set stake & quit for night T. Lee, H. Wilson & W. Moffat
			helped:
19, 20, 29, 30			Sept 9 1911. Todd Transitman: Herb Wilson, Tom. See, Wayne Moffatt
1/4 bet' 20 & 29			apmens & chairman; continue west: @ 1320 set hub. @ 2640 ft. set hub.
			@ 2644.15 ft. set hub. - cross N. & S. transit line: @ 5280 set hub. &
			quit for night.
			Sept. 14, 1911, Todd & Moffatt: Go to the corner of sections 19, 20-29-30
			139-30 previously established & put in an iron corner 12 x 48 inch
			galvanized pipe capped on top & set in a bed of cement.
			Sept. 15, 1911. Moffatt & Todd working: Go to the 1/4 corner between
			1/4 bet' 20 & 29 sections 20-29-139-30 previously established & set a 12 x 48 inch

- 1/4 20-29 galvanized pipe capped on top & set in a bed of cement for the true 1/4 corner. I meet Curo at the train & we go to the corner of sections 23-24-25-26-139-30, where we find the old bearing trees plainly marked, from which we set a wood stake, for the true corner.
- 23, 24, 25, 26
- 1/4 Cor 13-24 Sept. 16, 1911. Herbert Wilson & I. Go to the corner of sections 13-24-139-30 and run a line east on $8^{\circ}30'$ var. @ 248.50 set hub. @ 438.90 hub. @ 474 cross wagon road, runs N. & S. @ 807.50 set hub. @ 2653. ft. the true corner to sections 13+24, on the east side of 139-30 bears north 28. ft.
- SEC. or 13
NE. or 24
- 23, 24, 25, 26 Sept. 18, 1911. Todd transitman, Herbert Wilson chairman. Go to the S.W. corner of sections 24 and set the true corner, from old bearing trees after which I put in new bearing trees as follows: Birch stub 5, S.W. 34.80 feet. Birch stub 4, N.W. 24.45 ft. Going to the 1/4 corner between sections 13 and 24, where we establish new bearing trees as follows: Ash 6, N. $52^{\circ}33'$ W, 44.40 ft. White pine 2 N. $7^{\circ}5'$ E, 61.15 ft. Going to the N.E. corner of section 24, being the S.E. cor. of sec. 13-139-30 and put in new bearings as follows: Jack-pine stump 6, N. $64^{\circ}18'$ E. 24.10 ft. Jack-pine stump 12, N. $25^{\circ}25'$ W. 16.50 ft. at $8^{\circ}50'$ var.
- 1/4 Cor 13-24
13-24
- 23-24 Sept. 19, 1911. We go to the S.W. cor. of sec. 24. T. 139-30 previously established by me, and run N. at 9° var. At 77.30 enter lake @ 484.04 set hub, W. lake. at 1500 south bank of portage creek.
- 1/4 22-27
25, 22, 27, 28, Sept. 20, 1911. Beginning at the 1/4 cor. between sects. 22-27-139-30 and run west: @ 2633.50 the true cor. to sections 21-22-27-28, bears south 16.25 ft. correct back and quit for night.
- 23-24 Sept. 21, 1911. Beginning at 1500 on S. side of Portage creek we continue line North between sections 23-24: at 1620 N. bank of Portage creek: enter tan. swamp, @ 2100 W. swamp, @ 2640 set hub: do not see the 1/4 cor. and continue north: at 3130 center of road, N.E. & S.W. @ 3300 enter meadow: @ 3319. cross portage creek: @ 3425 cross portage creek: @ 3467.80 set hub. on sea wall of lake, do not find the meander corner, and quit for night.
- 23, 24, 25, 26 Sept. 22, 1911. We set the corner to sections 23-24-25-26, 139-30 by setting a galvanized 2 inch pipe, 4 feet long; capped on top, set in a bed of cement; We correct the N. line and the N & S centre line of sec. 24. Todd, Wilson, Barnes & Moffett, work.
- 1/4 13-24 Sept. 23, 1911. Moffett and Todd set a 2 x 48 inch galvanized pipe in a bed of cement at the 1/4 corner between sections 13+24-139-30.
- 1/4 20-29 Sept. 25, 1911. Todd, Moffett and Ed. Loge set the 1/4 corner, west of the N.E. cor. to sec. 29-139-30.
- 1/4 23-24 Oct. 2, 1911. I meet Curo & B. S. Perry and we go to the 1/4 corner between sections 23+24-139-30 where we find both of the old government bearing tree stumps, from which we place a wood stake for the true 1/4 corner. Curo & Perry go to Backus. I and Ed. Syrell set a 2 x 48 galvanized post in a bed of cement for the true 1/4 corner.
- Oct. 5, 1911. Harry S. Todd transitman. E. B. Kenworthy, Chester Kenworthy

continued.

J. W. Assajiff, apmen + chainmen: Going to the corner of 35-36 on the south side of twp. 139-30 we find the old goit bearing tree + the post properly set by Curo, for the true corner. We put in a new post + run N. on 9° var. @ 500 cross road E. + W. @ 550.10 set hub. @ 2651 ft. (35*)
the 1/4 corner between sections 35-36 bears E. 92.70 ft. We find both bearing trees plainly marked, from which we set a post for the true 1/4 corner, from which we run N. on 9° var. to the lake without chaining the line. We look for meander corner no. 3. but find no bearing trees or stake and quit for the night.

Oct. 6, 1911. Going to the cor. of sections 34-35, on the South side of twp. 139-30 we find the old government bearing trees, also a stake set by Curo, for the true corner; run N. on 9°^{45'} var @ 2000 ft enter meadow, @ 2150 S. bank of Portage creek; @ 2250 W. same, @ 2312.60 hub. in. old road, @ 2652.55 the true 1/4 corner between sections 35-34 bears N. 33.75 ft. We find both bearing trees from which we set a wood stake for the 1/4 corner, then check back on the line, + also correct up the line between sections 35-36. (35*)
and chain. C. Kenworthy, J. Borst, A. J. Whitmore and E. B. Kenworthy apmen and chainmen. Todd run transit

Oct. 7, 1911. Same crew, going back to the 1/4 corner between sections 35-36 we chain the line N. and run on 8° 30' var. @ 706 ft. cross wagon road, which bears N. 20° W.; @ 732.0 ft. set hub; at 1573.40 set post for temporary meander corner no. 3. but still fail to find the old corner or bearing trees. (35*)

Oct. 11, 1911. Todd transitman: Gilbert Applefee, Chas. Ward, Henry Sykes, apmen and chainmen: Go to the 1/4 cor. on the N. side of sect. 4, T. 139-30, we find the iron set by Curo, with new bearings for the true corner, from which we run S. on 9° var. at 2406 set hub. and quit for night. (Sec 4)

Oct. 12, 1911. Todd Transitman. H. Sykes, Saxe Sykes, J. Applefee + Nels Staleno, ap and chainmen; continue south; at 5264 ft the 1/4 corner between sections 4 + 9 bears east 178 ft. But in order to find the 1/4 corner we have to go to the corner of sections 4-5-8-9, where we find a stone corner set by Curo. and run east on 9° var. at 2080 cross road N.E. + S.W. at 2478.50 cross our transit line. at 2640. ft. set hub. but can find no government marks; at 2969. hub in field. quit for night. (35*)

Oct. 13, 1911. continue: At 5314 feet the true corner to 3-4-9-10, - 139-30 bears south 63.70 ft. at which point, we find all of the old bearing trees, from which we set a post for the true corner with new bearings as follows: Jack-pine 12 S. 49° 52' E. 12.20 ft. We correct our lines, and put in the stake for the true 1/4 corner between sections 3-9- (35*)

PLAT

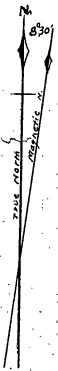
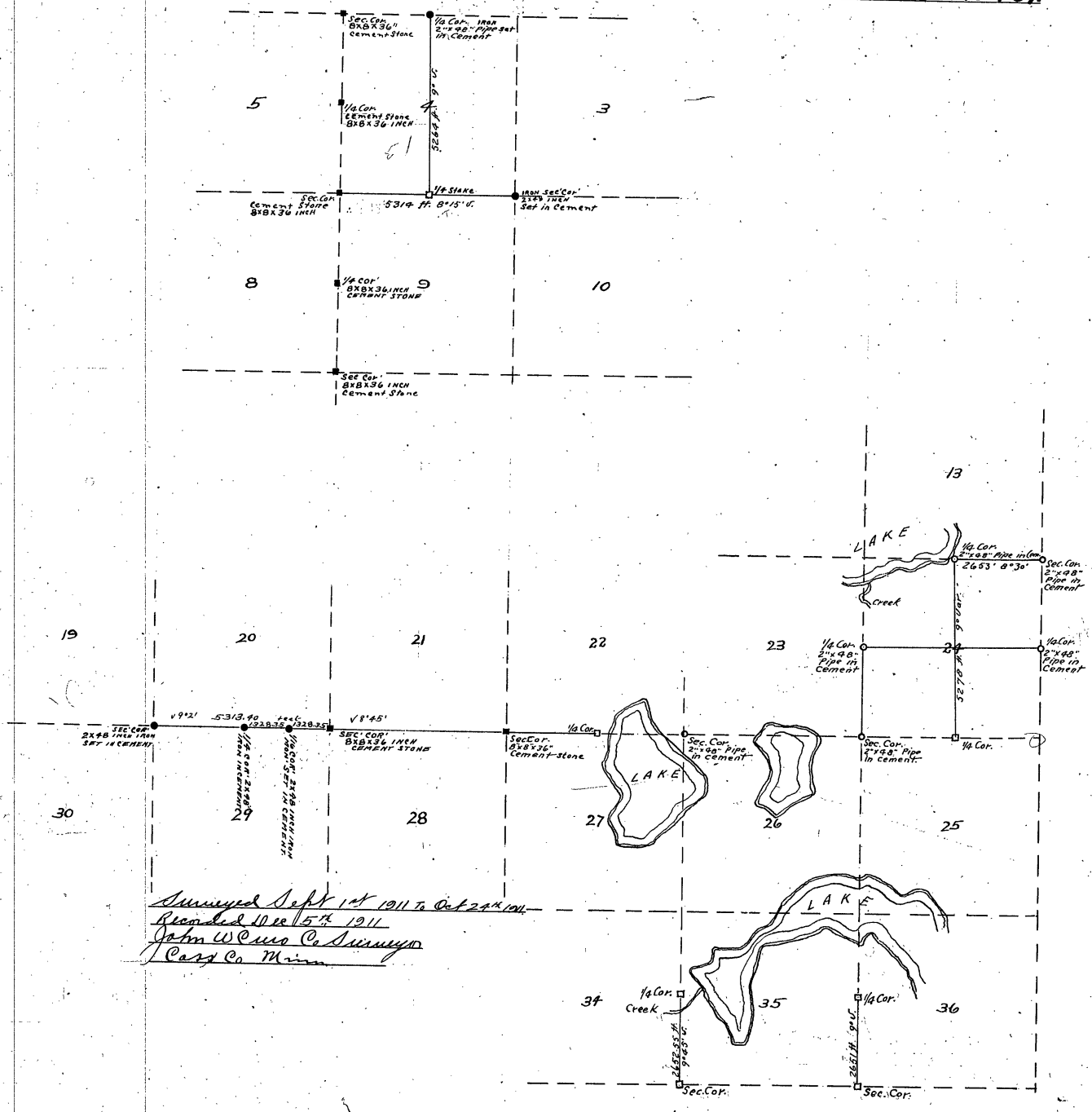
Sec 3, 4, 5, 8, 9, 10, 13, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 34, 35, 36.

TWP 139 N. RGE 30 W. 5 PM.

SURVEY RECORD No 167.

SCALE: 2 IN. = 1 MILE.

Sec Contd From Page This Book			
4	"	"	135
5	"	"	136
8	"	"	137
9	"	"	140
20	"	"	151
21	"	"	152
22	"	"	163
27	"	"	164
28	"	"	156
29	"	"	155
30	"	"	167



Surveyed Sept 1st 1911 to Oct 24th 1911.
 Recorded Dec 15th 1911.
 John W. Cross Co. Surveyors
 Cass Co. Minn.

PLAT OF

Sec Contd On Page of Book			
3	"	"	
4	"	"	
5	"	"	
8	"	"	
9	"	"	
10	"	"	
13	"	"	
19	"	"	
20	"	"	
21	"	"	
22	"	"	

PLAT OF

Sec Contd On Page of Book			
23	"	"	
24	"	"	
25	"	"	
26	"	"	
27	"	"	
28	"	"	
29	"	"	
30	"	"	
34	"	"	
35	"	"	
36	"	"	

24

Oct. 19, 1911. Harry S. Todd and B. L. Perry set a 2 x 4 8 inch galvanized pipe, capped on top, well into the ground for the true 1/4 corner, on the east side of sections 24 - T. 139-30.

3, 4, 9, 10

Oct. 23, 1911, Harry S. Todd works alone: set a capped galvanized pipe, 2 x 4 8 inches in size, set in a bed of cement at the point previously established, at the corner to sections, 3-4-9-10 - T. 139-30, with new bearings as follows: Jack-pine 12, S. 49° 52' E, 12.20 ft.

4

Oct. 25, 1911. Harry S. Todd working alone: Going to the 1/4 corner on the N. side of sec. 4 - T. 139-30, previously established by Curo. I pull up the iron corner and put in its place a galvanized pipe, capped on top and 2 x 4 8 inches in size, set in a bed of cement for the true corner.

13-24

Oct. 24, 1911. Harry S. Todd working alone: At the cor. to sections 13-24 on the east side of T. 139-30, I set a 2 x 4 8 inch galvanized iron pipe, capped on top and set in a bed of cement for the true corner. Going to the cor. to sections 22-23-26-27 T. 139-30, I find the corner previously established by me from the old government bearing trees which are still in place, I pull up the wood stake & put into its place a 2 x 4 8 inch galvanized pipe, capped on top, set for the true corner in a bed of cement.

22, 23,
26, 27.

Recorded Dec. 5. 1911

John W. Curo
 County Surveyor Cass Co.
 Minnesota

- NOTES -

Sec	Cont'd on Page of Book
3	" "
4	" "
5	" "
8	" "
9	" "
10	" "
13	" "
19	" "
20	" "
21	" "
22	" "
23	" "
24	" "
26	" "
27	" "
28	" "
29	" "
30	" "
32	" "
34	" "
4	" "

Field notes of the survey of a part of Township No 139^N Range No 29^W 5th Principal Meridian, as made by John W. Curo County Surveyor of Cass County Minnesota and Harry S. Todd Deputy County Surveyor of Cass County Minn., through Sections 3, 4, 5, 8, 9, 10, 12, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, T139, R29.

June 21st 1911. Harry S. Todd, transitman; T. Shepard and Lawrence Shepard axmen and chainmen: In order to establish the northeast corner of Section 13 and the southeast corner of Section 12 of Township 139-29 we go to meander post No 20 on the south side of Hay Lake where Government notes call for a post and the following bearing trees: Jack Pine 14, South 43° E, 24 links; Spruce 5th 44° W 21 links: We find the old trees from which we set a wood post for the true corner which we intend to replace with an iron monument: Run South along the Range line 35.64 feet being 54 links to the corner of Sections 12 and 13 where Government notes call for a post and the following bearing trees: Aspen 12 N 32° E 27 links; Tamarac 10 S 62° E 44 links; Willow 6 S 35° W 39 links; Tamarac 11 N 50 W 32 links: We find the roots of the old trees and the point of the old stake and place a new post for the true corner after which the Meander corner just set, bears North 54 links at 8° magnetic variation

Sept 8th 1911. Harry S. Todd transitman; Thos Lee; Herb Wilson; Wayne Moffett find the old Govt bearing trees to the 1/4 corner on the West side of Section 19, 139-29 from which they set a wood stake for the true 1/4 corner

Sept 16th 1911. Harry S. Todd and Herb Wilson find the bearing trees to the corner of Sections 18 and 19 on the West side of T-139-29 from which they set a wood post for the true corner and put in new bearing trees as follows: Jack pine stump 6. N 64° 18' E 27.40 feet: Jack pine stump 12 N 25° 58' W 16.50 feet: and on

Sept 23rd 1911 Moffett and Todd pull up the wood stakes and put in its place a 3x48 inch galvanized pipe capped on the top end set in a bed of cement for the true corner to Sections 18 and 19.

Oct 17th 1911. Harry S. Todd transitman; J A Dorey, Hosea King, Seymour Butler, axmen and chainmen: go to the corner of Sections 8, 9, 16, 17, T139 R29 where they find a wood hub previously set for the true corner from old Government bearing trees by A.W. Moulster, and from a point 31 feet West so as to avoid cutting brush they run North on 8° Var up the main road: at 2646 feet the true 1/4 corner between Section 8 & 9 bears East 18.40 feet at which point they find the old Government bearing trees from which they set a square wood stake for the true 1/4 corner: and from a point 18.40 feet West continue transit line North: at 1900 enter swamp: @ 1950 Lv same: at 1990 cross road which bears NE and SW: @ 2250 enter little swamp: at 2300 leave same: at 2642. the true corner bears West 0.80 feet

At this point being the corner to Sections 4, 5, 8, 9, we find the old SE bearing trees plainly marked and a stake set by A W Moulster for the true corner

12-13

MC No 20

Sec 12 & 13

Sec 19

18 & 19

18-19

8, 9, 16, 17.

8-9

4, 5, 8, 9.

Survey Record No. 168. continued

No. 168.

Oct 18th 1911. Beg @ cor to Sections 4, 5, 8, 9 T. 139-29 previously set by
 (4,5,8,9) Moulster we run East on 7°30' Var. @ 251 feet set hub in old road; @ 560 feet
 cross wagon road bears NE and SW; at 737 feet enter meadow; at 1840.60
 (3,4,9,10) set hub and leave meadow; at 3640 feet set hub; the 1/4 corner is gone
 and we continue East; at 5288 feet the true corner to Sections 3, 4, 9, 10,
 139-29 bears North 6.80 feet. We find the stump of the old S.W. bearing
 tree from which we set a wood stake for the true corner and put in new
 bearings as follows: Poplar 4. NE 8.50 feet. Poplar 3. NW 6. feet.

Oct 19th 1911. We check up our line and set stakes on the true
 (4,5,8,9) section lines on the North and West sides of Section 9, and in the
 afternoon B. L. Perry and Harry S. Todd go to the 1/4 on the west side
 (19) of 19-139-29. pull up the wood stake and put in its place a 2 x 48 inch
 galvanized iron pipe, capped on top and set in a bed of cement for the
 true 1/4 section corner.

Nov 22nd 1911. John W. Curo and Mike Smith go to the corner
 (19,20,29,30) of Sections 19, 20, 29, 30 T. 139 R. 29 where we find all of the old govern-
 ment bearing tree stumps from which we set a 2 x 48 inch capped
 galvanized iron monument for the true corner with new bearings as
 follows: Jack Pine 6 N 14° 41' E Jack Pine 7 S 34° 16' E

(28,29,32,33) to back heads. Going to the corner of sections 28-29-32-33,
 139-29 we find the Northeast and the Southeast old bearing lines
 from which we set a capped, 2 x 48 inch galvanized iron monument
 pipe for the true section corner with new bearings as follows:
 Jack Pine 10 N 72° 50' W 21.50 feet; Jack Pine 10 S 31° 50' W 30.02 feet to
 back heads @ 7°50' Variation

(26,27,34,35) Nov 23rd 1911. Mike Smith and Curo go to the corner of Sections
 26, 27, 34, 35, 139-29 previously established by Curo where we find the
 old NE and SE bearing trees and set a 2 x 48 inch galvanized iron
 pipe capped on top, with new bearings as follows: Spruce 6 N 20° W
 (25-36) 24.25 feet; Spruce 8 N 65° E 29.15 feet; Tamarac Stump 12 S 14° E 10.90
 feet to back heads. Going to the corner of Sections 25 and 36

on the East side of Township 139-29 we find the old corner previously
 established by Curo and also find the old Government bearing trees from
 which we set a 2 x 48 inch galvanized iron pipe capped on top for the true
 corner with new bearing trees as follows: Jack Pine 10 N 55° E 68.70 feet;
 Jack Pine 3 N 19° E 27.65 feet to back heads.

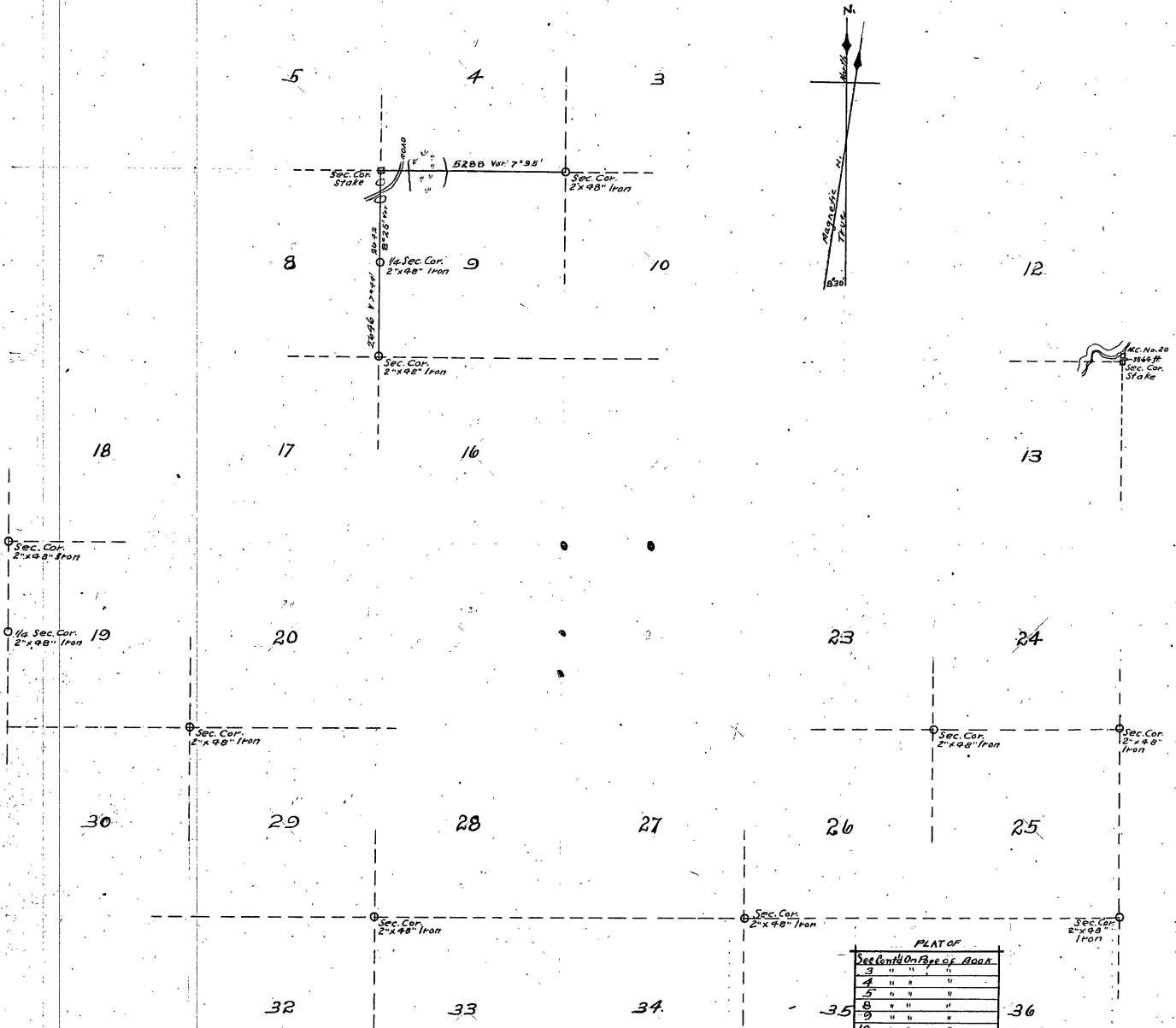
(24,25) Anson Beals and Curo go
 to the corner of Sections 24 and 25 on East side of Twp. 139^N Range 29^W pre-
 viously set by them from old Government bearing trees; pull up the old
 stake and put in its place a 2 x 48 inch galvanized iron monument
 capped on top and set well into the meadow for the true section corner
 with new bearings as follows: Dead Tamarac 12 N 21° W 46.60 feet to a back head
 at 8°30' Var magnetic

(23,24,25,26) Smith and Curo go a mile west to the corner of sections 23, 24, 25, 26
 139-29 where they find the stump of the NE old government bearing tree
 and the line of the old N.W. bearing tree plainly marked from which

PLAT
SECS. 3, 4, 5, 8, 9, 10, 12, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 28, 29,
30, 32, 33, 34, 35, 36, T. 139 N., R. 29 W., 5TH P. M.

SCALE: 1 MI. TO 2 IN.

SURVEY RECORD No. 168.



PLAT OF

Section	On	Page of Book
3	"	"
4	"	"
5	"	"
8	"	"
9	"	"
10	"	"
12	"	"
13	"	"
16	"	"
17	"	"
18	"	"
19	"	"
20	"	"
23	"	"
24	"	"
25	"	"
26	"	"
27	"	"
28	"	"
29	"	"
30	"	"
32	"	"
33	"	"
34	"	"
35	"	"
36	"	"

Survey begun June 21, 1911
 finished Nov. 23, 1911.
 recorded Dec. 5, 1911.

John W. Curran, Co. Surveyors
 St. Paul, Minn.

23, 24, 25, 26

they set a 2 x 48 inch galvanized iron monument for the true corner
 to Sections 23, 24, 25, 26, 139, 29.

3, 4, 9, 10

Nov 2nd 1911. James A Dorey assisting Curo pulls up the wood
 stake at the corner of Sections 3, 4, 9, 10, 139, 29 and puts in its place
 a 2 x 48 inch galvanized iron monument, capped on top and set in a
 bed of cement for the true section corner

8, 9

James A Dorey assisting Curo pulls up the wood stake at the
 1/4 corner between Sections 8 and 9, T 139, R 29, and puts in its
 place a 2 x 48 inch galvanized iron pipe, capped on top and set in a
 bed of cement for the true 1/4 corner

8, 9, 16, 17

Oct 24th 1911. Harry S. Todd pulls up the wood stake at the corner
 of Sections 8, 9, 16, 17, T 139, R 29 and pulls up the wood stake
 previously set by A W Moulster and puts in its place a 2 x 48 inch
 galvanized iron monument, capped on top and set in a bed of cem-
 ent for the true corner; at this point the old government bearing
 lines are still in place from which the iron monument just set checks out
 correct

18, 19

At the corner to Sections 18 and 19, on the West side of Township 139
 Range 29, ^{the government lines were} pull up the wood stake ^{on Sept 23rd 1911} and put in its place a 2 x 48 inch
 galvanized iron post capped on top and set in a bed of cement for
 the true Section corner. All courses turned from the true meridian
 See plat on page 380 of this book. Recorded Dec 5th 1911.

John W Curo
 County Surveyor Cass Co Minn

NOTES -

Sec	Cont'n	Page	of Book
3	"	"	"
4	"	"	"
5	"	"	"
8	"	"	"
9	"	"	"
10	"	"	"
12	"	"	"
13	"	"	"
16	"	"	"
17	"	"	"
18	"	"	"
19	"	"	"
20	"	"	"
23	"	"	"
24	"	"	"
25	"	"	"
26	"	"	"
27	"	"	"
28	"	"	"
29	"	"	"
30	"	"	"
32	"	"	"
33	"	"	"
34	"	"	"
35	"	"	"
36	"	"	"

Survey Record No 169 Sec 31 T 142 R 30.

Sec 31

Field notes of the Survey and establishment of an iron monument at the true southwest corner of Section 31 Township 142ⁿ Range 30^w 5th principal meridian as made by Harry S. Todd, Deputy County Surveyor of Cass County Minnesota approved and recorded by John W. Curo, County Surveyor

Twp Cor

Oct 21st 1911 Harry S. Todd takes a galvanized iron monument 2 inches in diameter by 4 feet long, having a head 6 inches square and capped with the 4 township numbers plainly stamped thereon and goes to the corner of Township 141 and 142 N. Ranges 30 and 31^w where pulls up the wood hub previously set by him from the old Government bearing lines for the true corner and puts in its place the iron monument set well into the ground for the true township corner. The old government bearing lines ~~are~~ still there and checked for course and measurement to the iron monument just set at 8°30' magnetic variation all courses turned from the true meridian

Recorded Dec 5th 1911.

John W. Curo
County Surveyor Cass Co Minn

- NOTES -

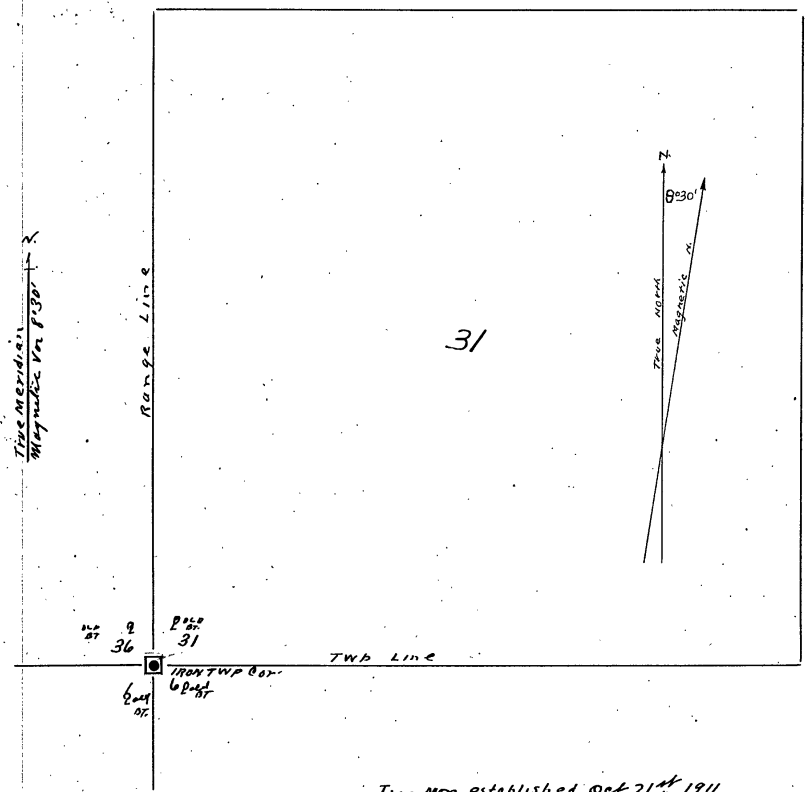
Sec Cont'd On Page of Book
31 " " 47B " A "

SURVEY RECORD No 169

Sec 31 T 142^N R 30^W 5^H

PLAT

Scale 880 Ft to one inch



Iron Mon established Oct 21st 1911

Recorded Dec 5th 1911

John W. Curo.
County Surveyor Cass Co Minn

Surveyed Oct 21st 1911

PLAT -
See Contd on Page of Book
31

N^o 170.

Sections 6, 7, 18, 30 & 31. T141^m R30^w 5th PM.

PLAT.

Scale 2640 FT To 1 INCH

SURVEY RECORD No 170.

OLD ST. 2
2 1/2 FT

TRUE 1/4th COR.
IRON MON. 2x48 INCH
WITH 6" IRON TOP

6

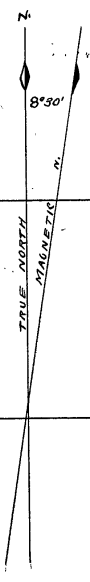
1

7

OLD ST. 2
2 1/2 FT

TRUE SEC. COR.
IRON MON. 2x48 INCH

18



TRUE N. 1/4th COR. 18°30'

19

30

OLD ST. 2
2 1/2 FT

2x48 INCH IRON MON.
TRUE SEC. CORNER.

31

32

36



1/4th COR. 35 IRON MON.
2x48 INCH SET IN
A BED OF CONCRETE

Recorded Dec 5th 1911

Surveyed May 27th to Oct 30th 1911.

John W. Curo Co Surveyors Cass Co Minn.

Sec Cont'd On Page of Book	
6	" " 488 " A "
7	" " " " "
18	" " " " "
30	" " " " "
31	" " " " "

Field notes of the survey of a part of Township No 141st Range 30th 5th Principal Meridian and establishment of iron monuments at corners in Sections 6, 7, 18, 30 and 31. as made by John W Curo County Surveyor of Cass County Minnesota assisted by Harry S. Todd Deputy County Surveyor:

Sec 6.

Twp Cor

Oct 21st 1911 Harry S. Todd sets an iron monument at the Northwest corner of section 6 for the true Township corner: Said monument is a galvanized iron pipe 2 inches in diameter and 4 feet long capped on top and having an iron head 6 inches square with the number of 4th Townships marked thereon as follows: Twp 141 and 142 North, Range 30 and 31 West. All of the old Government bearing lines called for in the field notes of the original survey are still in evidence from which the true corner is located.

Sec 7

Sec 18

Oct 29th 1911. Todd goes to the Southwest corner of Section 7 and the Northwest corner of Section 18 where he finds a wood stake previously set by Curo for the true corner: he pulls up the wood stake and puts in its place a 2x48 inch galvanized iron monument capped on top and set well into the ground for the true corner after which the old government bearing lines called for in the original field notes stand correct for course and distance courses turned from the true meridian @ 8°30' 1/2

M.C. 35

Sec 31

On May 24th 1911 Harry S. Todd and Geo Mitchel go to Meander Corner No 35 which is West of the 1/4 corner on the South boundary of Section 31-Twp 141-R30 and on the East side of a part of Ten-Mile-Lake previously established by Curo, where he pull up the wood nub and put in its place a 2x48 inch galvanized iron monument capped on top and set well into the ground in a bed of cement and rock for the true Meander Corner. The Government notes call for a post and the following bearing lines:

We find the old sowed off stump of both lines standing plainly marked which check out perfect for course and distance to the iron corner which show that this iron corner is absolutely correct for the true M.C. No 35.

Sec 30

Sec 31

Oct 30th 1911. Harry S. Todd goes to the Southwest corner of Sec-30 and the Northwest corner of Section 31 T 141- R30 previously established by Curo and Todd, where he places a 2 by 48 inch galvanized iron pipe well into the ground for the true section corner: the iron pipe is capped on top and stands perfect for course and distance from the N.E. and N.W. old gov't bearing lines which are there plainly marked all courses turned from the true meridian @ 8°30' 1/2

Recorded Dec 5th 1911

John W Curo
County Surveyor Cass Co Minn

Sec	Con'd on	Page of Book
6	"	481 " A"
7	"	" "
18	"	" "
30	"	" "
31	"	" "

Field notes of the survey of a part of Township No 141^N Range 31^W 5th Principal Meridian and establishment of iron and cement Township, Section and Meander corners in Sections 1, 12, 13, 14, 15, 22, 23, 24, 25, 26, 30, as made by John W Curo County Surveyor of Cass County Minnesota and Harry S. Todd Deputy County Surveyor of Cass County Minnesota

Oct 21st 1911. Harry S. Todd sets an iron monument at the North-east corner of Section 1. Township 141^N Range 31^W for the true Township corner said monument is a galvanized iron pipe 2 inches in diameter and 4 feet long capped on top and having an iron head 6 inches square, with the numbers of 4. Townships marked thereon as follows: TOWNSHIP 141 R30, T 142. R30, T. 141 R31, T 142 R31. all of the old Government bearing trees called for in the field notes are still in evidence, from which the true corner is located

Oct 29th 1911 Curo and Todd set iron monuments 2x48 inches in size galvanized iron pipe capped on top and set well into the ground for the true Section corners in the following places: the Southeast corner of Section 12 being the North east corner of Section 13; and the corner to Sections 13, 14, 23, 24; and the corner to Sections 14, 15, 22, 23, all in Township 141. Range 31 and all set correctly from old Government bearing trees which are still in evidence

Oct 30th 1911 Harry S. Todd sets a 2x48 inch galvanized. Capped iron pipe for the true Southeast corner of Sec 25, being the Northeast corner of Sec 36 T 141. R31. set from old govt bearing trees which are still in evidence

Curo and Todd set a 2x48 inch galvanized iron pipe capped on top and set in a bed of cement for the true meander corner No 15 on the south side of Portage Lake between Sections 25 and 26, and at Meander corner No 7. on the North side of Ten Mile Lake between Sections 25 and 26 we set a 2x48 inch galvanized iron pipe capped on top and set in a bed of cement. both meander corner No 15 and No 7 are set from old govt bearing trees. all in Township 141^N Rge. 31^W 5th P.M.

All courses turned from the true meridian

Recorded Dec 5th 1911. John W Curo

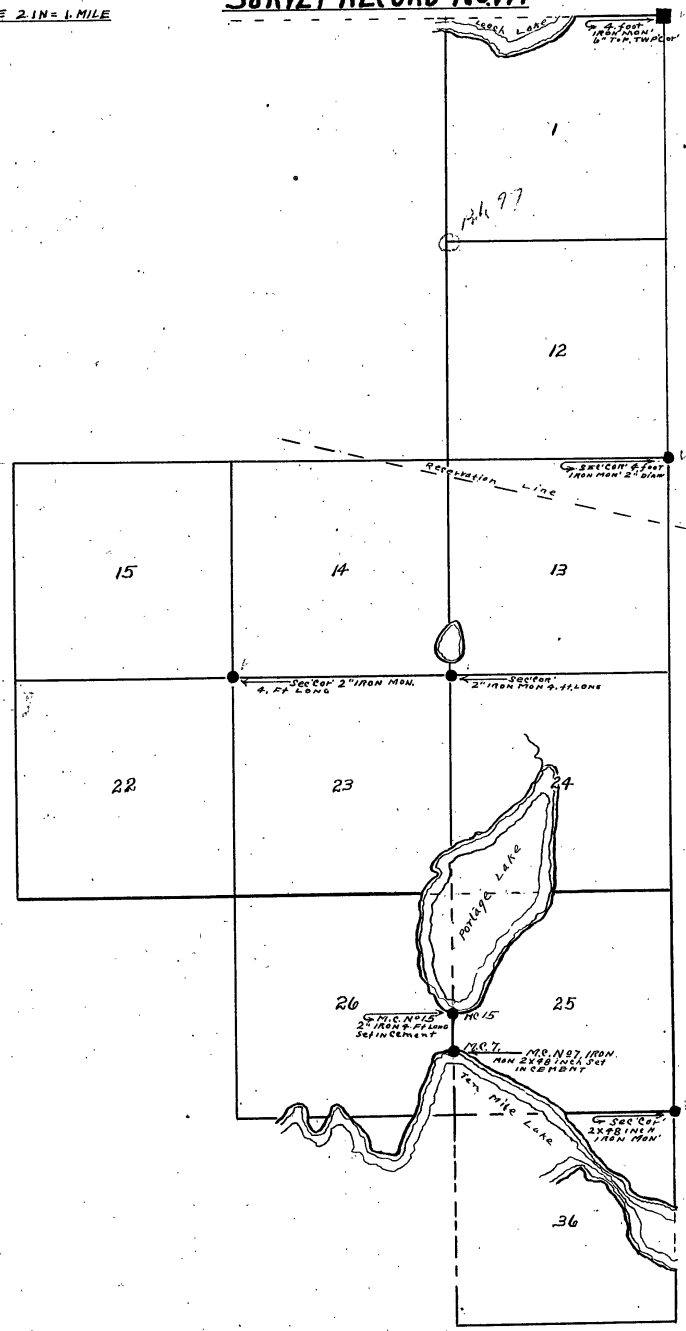
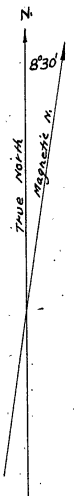
-NOTES-

Sec	Cont'd	On Page	of Book
1	"	"	"
12	"	"	"
13	"	"	"
14	"	"	"
15	"	"	"
22	"	"	"
23	"	"	"
24	"	"	"
25	"	"	"
26	"	"	"
36	"	"	"

PLAT
Sec's 1.12.13.14.15.22.23.24.25.26.36.
T.141^N R.31^W 5th P.M.

SCALE 2 IN = 1 MILE

SURVEY RECORD No 171



Surveyed Oct 21st & 30th 1911
Recorded Dec 5th 1911
John W. Curo Co Surveyors
Per C. Mainardi

- PLAT -

Section	On Page of Book
1	" " "
12	" " "
13	" " "
14	" " "
15	" " "
22	" " "
23	" " "
24	" " "
25	" " "
26	" " "
36	" " "

31

PLAT OF
Sec Cont'd From Page of this Book
23 " " 291

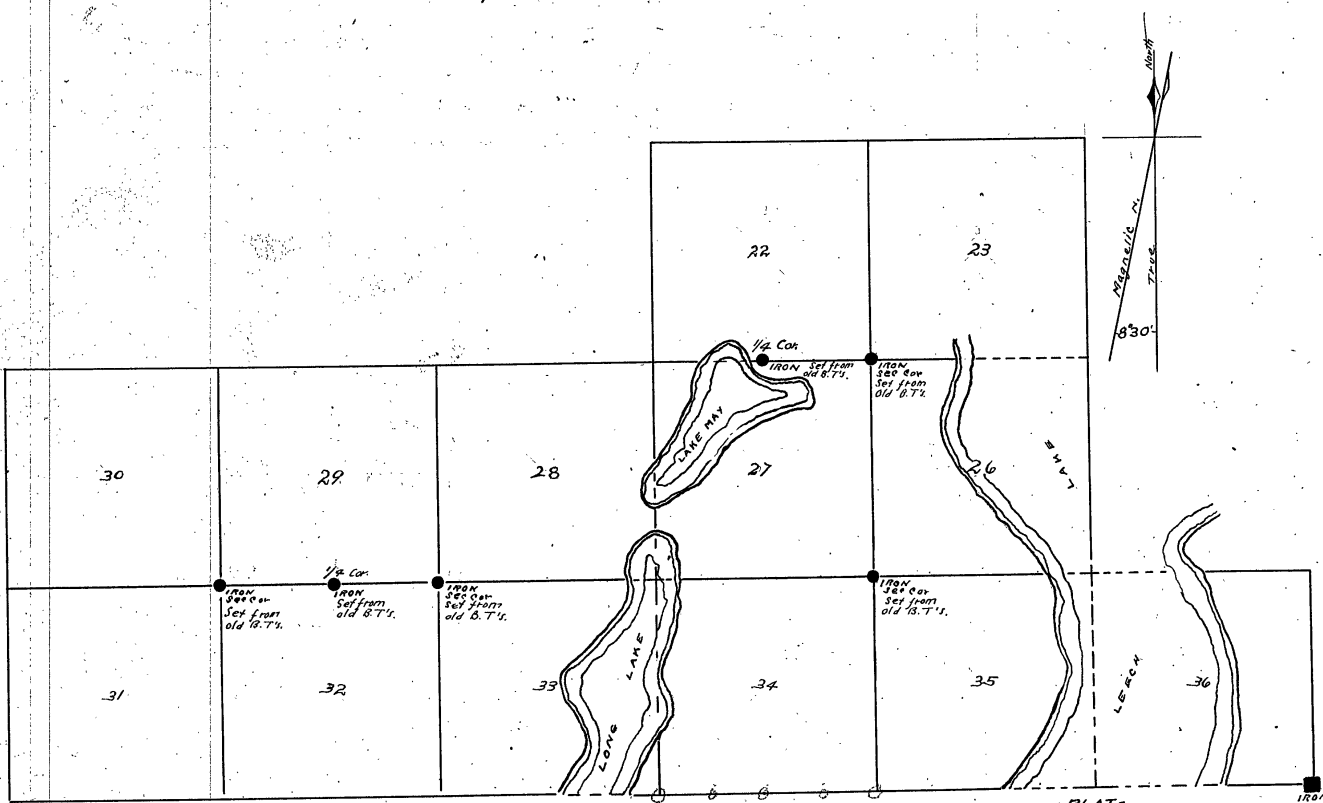
- PLAT -
Twp 142ⁿ R^y 31^w 5^{rn}.
Secs 22, 23, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36.

No 172.

SURVEY RECORD No 172.

SCALE 2 INCHES = 1 MILE

SURVEYED BY JOHN W. CURR



Recorded Dec 5th 1911
John W. Curr, C. Surveyor Cass Co. Minn

- PLAT -

Sec	Cont'd On Page of Book
22	" " "
23	" " "
26	" " "
27	" " "
28	" " "
29	" " "
30	" " "
31	" " "
32	" " "
33	" " "
34	" " "
35	" " "
36	" " "

IRON
Twp 142ⁿ
Set from
old B.T.

Field notes of the survey of a part of Township 142ⁿ Range 31^w 5th P.M and establishment of iron Township and section corners in sections 22, 23, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36. as made by John W Curo County Surveyor of Cass County Minnesota and Harry S. Todd Deputy County Surveyor of Cass Co. Minnesota

Oct 21st 1911 Harry S. Todd sets an iron monument at the South east corner of Section 36. of said Township for the true Township corner; said monument is a galvanized iron pipe, two (2) inches thick by 4 feet long and having an iron head six (6) inches square with the numbers of four townships marked thereon for the following townships: T.141 R.30. T.142-R.30. T.141-R.31. T.142. R.31. all of the old bearing lines called for in the Government field notes are there from which we set the true corner

Oct 26th 1911 Curo and Todd set a 2x48 inch galvanized iron pipe capped on top, and set well into the ground for the true government section corners as follows: the corner to sections 29, 30, 31 and 32.; the corner to sections 28, 29, 32, 33.; the 1/4 corner between sections 29 and 32. all in Township 142ⁿ Range 31 and set from old Gov't bearing lines

Curo and Todd check up on iron monuments previously established by Todd and Robert E. Phillips and at the 1/4 corner between sections 22 and 27. and at the corner to sections 26, 27, 34, 35, and at the corner to sections 22, 23, 26, 27. all in Township 142ⁿ Range 31^w. We find them properly set from old government bearing lines which we sketch in evidence and the monuments set are 2x48 inch galvanized iron pipe capped on top and set well into the ground for the true corners

Recorded Dec 5th 1911
 John W Curo
 Co Surveyor Cass Co. Minn

-NOTES-

Secs	Cont'd	On	Page	of	Book
22	"	"	"	"	"
23	"	"	"	"	"
26	"	"	"	"	"
27	"	"	"	"	"
28	"	"	"	"	"
29	"	"	"	"	"
30	"	"	"	"	"
31	"	"	"	"	"
32	"	"	"	"	"
33	"	"	"	"	"
34	"	"	"	"	"
35	"	"	"	"	"
36	"	"	"	"	"

Field notes of the survey of a part of Township 139^N Range 26^W 5th Principal Meridian, through sections 10, 11, 12, 13, 14, 15, 21, 22, 23, ~~24~~ 25, 26, 27, 28, 34, 35, 36, as made by John W. Curo, County Surveyor of Cass County Minnesota. We use a Keuffel and Esser Engineers transit and a 90 foot Chicago steel tape: Harry Meacham, Jay L. Barrett, Elmer Shafer, Axmen: Sherman T. Cade and F. Chenvert chainmen: Curo transitman:

April 21st 1908 going to the corner to Sections 25 and 36 on the East side of Twp 139 Rge ~~27~~ 26, govt notes call for a post and the following bearing trees: yellow pine 10^N 36° E 26 links: Jack pine 11 S 69° E 19 links: Jack pine 6 S 63° W 26 links: Jack pine 15 N 48° W 21 links: We find the yellow pine standing plainly marked from which we set a 4 x 4 x 36 inch stake for the line corner at 9° variation: all of the other trees having been grubbed out to make room for the logging road

Run West at 9° variation: at 810 feet cross wagon road: at 900 touch N. end of bog: at 1320 feet set hub: at 2640 ft set a hub for the temporary 1/4 corner: the line 1/4 corner between sections 25 and 36 bears South 65° 2' East 59.20 feet: At this point the notes call for a post and the following trees: Norway pine 6 S 5° E 11 Lks: Norway pine 6 N 25° E 15 Links we find the NE tree from which we set the line corner at 9° var: the other tree is gone tho there is a root which checks out for measurement tho it is a foot too far west for course: Barrett and Meacham chained this half mile.

Beginning at the line 1/4 corner we run West between sections 25 and 36 on 9° var: at 630 feet touch N. end of bog: at 830 leave same: at 1320 set hub: at this point the walls of an old camp stands about 200 feet S.W. at 2200 feet cross main wagon road: at 2640 set hub: the line corner to sections 25, 26, 35, 36 bears North 58° 8' East 107.70 feet: at this point the notes of the original survey call for a post and the following trees: Norway pine 5 N 55° E 39 links: Norway pine 8 N 35° W 28 links: Norway pine 12 S 35° E 13 links: Norway pine 11 S 55° W 33 links: We find the stumps of all the trees except the one standing N.E. and this seems to have been grubbed out for a grade of an old logging road: from these remaining stumps we set stakes for the line corner which checks out perfect for course and measurements from the heart of the stumps: we drive out stakes thro the point of the old government post: Barrett and Meacham chained

We run a rough line west to the lake and found one of the M. C. bearing trees down. Quit for night

April 22nd 1908 Curo, Cade, Meacham, Barrett and Shafer: at meander corner No. 29 on the E side of Lawrence Lake, between sections 26 and 35 government notes call for a post and the following trees: Elm 6 N 25° E 128 links: White Birch 6 S 25° E 152 links: We find the elm plainly marked but down from which we set the post for line meander corner at 9° degrees variation: measurements taken from heart of tree:

We drove a six foot cedar post for a good M. C. post The birch called for in the notes seems to be gone. I work the transit on line and begin at the corner to sections 25-26-35-36, and

No 173. Cont'd

Chain carefully West. plumb bob line, perfect chaining: at 1320 set Hub: at 1557.20
 intersect Meander Corner N^o 29 just set. As the Government chain calls for 1567.50
 feet (2375 Links) I find the distance is 10.30 too short so by proportional measurement
 I set hub N^o 1320, East 8.67 feet where I place the line 1/4 corner by driving a good
 cedar post: this shows the distance 1311.33 ft East to the Section corner and the
 distance West to the M.C. is 245.87 feet. With transit set on Hub 1311.33 being
 the 1/4 corner I run S 26' 44" on 8° 30' U declin. At 1000 set hub: at 2000 feet set hub: at 2300
 cross road: at 2800 feet cross road: at 2948 set hub for temporary center of sec
 35: at 3000 set hub: Shaper and Meacham chained. Quit for night

April 23rd 1908 Same crew, continuing: at 3388 enter swamp at a point
 100 feet east of West end of swamp: at 3478 Leave swamp: at 4000 feet set hub: at 5000
 feet set hub: at 5896 ft set hub for temporary 1/4 corner: The true 1/4 stands N 87° 56' W -
 226 feet. We establish this 1/4 corner as follows: At Meander corner N^o 28 on the East
 side of lake and on South boundary of Section 35. T. 139 R. 26. Government
 notes call for: Aspen 10 N 78° East 48 links: Pine 12 S 40° E 36 Links: We find the pine
 plainly marked but down, from which we set the meander corner: At the place
 where the top root of the pine should be in the sand, I drove a good solid hub to
 mark the spot, over which I set the transit and find that the shore has washed
 away, until the meander post comes six (6) feet out in the water: we set it
 with the use of Singer's board: the "aspen" called for in the notes, appears to be
 gone we run East on 8° 30' U. at 430 links equals 283.80 feet set hub for
 temporary 1/4 corner: at 2430 links equals 1603.80 feet set hub for temporary
 1/4 corner: the true 1/4 on South side of Section 35 bears North 84° 48' E 53.40 feet: at
 this point the notes call for the following trees: pine 12 N 57° E 16 links: White Birch 10
 S 50° W 35 links: We find the birch standing well marked, and the sowed off stump
 of the "pine" called for in the notes: it is a white pine and the distance between
 the heart of the stump and the heart of the birch is 33.66 feet with the line pulled
 straight, so we set the 1/4 corner by measurements and do not take the courses.

Mr Charles Singer has cleared a field too far North and he took me to a
 point about ten (10) rods North of the 1/4 corner just set: He showed me a sawed
 off white pine stump almost exactly like the ^{one} stump I have just used in setting the
 1/4 corner, and this last discovered white pine stump shown by Singer, has parts of
 timber scribe figures evidently having been made by the original Government
 surveyors, who attempted to cut off the figures but left a few traces: there is
 no birch to go with this white pine so I pass it up and consider the 1/4 corner just
 set about ten rods south to be the true 1/4 corner: In a survey made by the
 Crow Wing County Surveyor, this North stump was used, but he was mistaken
 in not knowing where the true corner was.

Correcting back: At hub 283.80 we run N 84° 48' E 9.45 feet at which
 point we set a nice long 3 foot stone, well into the ground, with a cross (+) on
 square six (6) inch top of the stone.

The total distance from M.C. N^o 28, East to the 1/4 corner, is 1603.80 feet
 government chain, equals 1657.20 feet my chain: distance from 1/4 West
 to M.C. N^o 28, is 293.25 feet and the distance East to the 1/4 corner is 1363.95
 making a total of 1657.20 feet

April 24th 1908 Same crew: At M.C. N^o 27 of sec 35, Township

N^o. 139-26 Range N^o. 26 W we find one, ten inch Norway pine bearing lice which has fallen out in the lake with the figures down. I did not disturb the lice but left it for future use.

April 25th 1908: Eads, Barrett, Shafer, Meacham and Curo work all day. Beginning at hub 2948 on angle line at temporary center of Sec 35 we run a compass line West 2640 feet and look for 1/4 corner between Secs 34 and 35 where notes call for: White pine 12 S 2° E 26 links: Aspen 7 N 82° W 12 links:

We find the "white pine" from which we set the line 1/4 corner: the tree was sound and well marked but turned out by the roots: Run East on 8° 30' Variation: at 1320 feet set hub: at 2640 feet set hub: at 3960 set stakes: at 5280 set hub: Curo and Barrett chained carefully under the plumb-bob. The 1/4 corner between Sections 35 and 36 is gone.

April 26th 1908 Beginning at the corner to Sections 25, 26, 35, 36 139-26 we run South on 6° Var: at 1320 set stakes: at 2640 set stakes: on north side of big Mountain near the 1/4 between Sections 35 and 36 where we find no traces of the old gov't bearing trees or stakes: Continue South at about 3000 top of big mountain: at 3900 foot of mountain on South side: at 3960 set hub: at 5280 set hub: At this point being the S.W. Cor. of Sec 36 notes call for: Tamarac 7 N 44° W 33 links: Tamarac 8 N 34° E 69 links: Tamarac 8 S 73° E 47 links: Tamarac 5 S 43° W 25 links. We find all four trees from which we set the line corner to Sections 35 and 36: measurements check out correct to the heart of the trees: We find a false corner standing about 100 feet N.W. of the true corner, and we find 3 large tamarac trees which have been marked up by the government surveyors and the figures again chopped off by them. Some traces of their marks still show. From hub 5280 the true corner stands N 85° 5' W. 118.30 feet: Coming north hub 2640 we run N 85° 5' W 57.15 feet where we place a post for the true 1/4 corner between Sections 35 and 36, 139-26 with new bearings as follow: dead Birch 12 S.W. 22.80: Oak 10 about North 26: 25 feet, measured to ticks.

April 27th 1908: Setting transit on hub 5280 ft E. of N. side of Sec 35, the true 1/4 corner on the East side of Sec 35 bears S 72° 13' W 43.40 feet. Coming back to hub 2640 we run S 72° 13' N. 21.70 feet where we place the true center of Sec 25-139-26 with bearings as follows: dead Birch 10 S 21° 47' E 59.56 feet: dead Balsam 8 N 10° 14' E 50.10 feet to back heads.

Setting transit on hub 2948 ft S.W. on angle line from N. side of Lot 6, Sec 35 the true center of Sec 35 bears N 79° 30' W 72.20 feet.

April 28th 1908 Eads, Barrett, Meacham and Curo: Beginning at center of Sec 35-139-26 run S 33° 18' W, 407' as meridian: at 1684 ft. set AP. where we drive post for angle point in road center with bearings as follows: Birch N 50° 13' W 67.57 feet: Birch 8 S 38° 53' E 46.25 feet to back heads.

Thence S 19° 49' N 1357 feet to stone monument at 1/4 corner West of the 1/4 corner on South side of Sec 35-139-26.

From station 1/4 corner run N 19° 49' E 1357 feet along road center to hub thence N 33° 18' E. along road center 1684 feet to center of Sec 35, at which point the angle of our two lines 166° 31'. Going along new road survey S.W. to hub 1357 we find the distance North west to Lake 135 feet showing that the Government surveyors made a mistake in platting the lake.

Correcting the East and West center line of Sec 35. we set hub 1320, $S 72^{\circ} 13' W$ 10.85 feet where we set the line $\frac{1}{16}$ in the center of West half of Sec 35, and put up a white flag and with transit set on the $\frac{1}{4}$ corner on west side, N₁ back sight on flag and run west thro Sec 34. At 290 feet enter swamp: at 660 leave same: at 870 center of main road on top of hill: at 875 set hub west of road

Coming back to $\frac{1}{4}$ between sections 34 and 35 we run North on 8° Variation: at 425 feet culvert on bridge side: at 515 cross wagon road west of bridge: at 549.50 set hub: at 635 enter tamarac swamp which extends 250 West: at 1125.10 swamp: at 1320 set hub at 1497.60 set hub a few feet south of road

April 29th 1908 going to Meander Corner N^o 12 T 139- R 26 on N. side of Crooked Lake Narrows we set the line Meander Corner from one Tamarac bearing tree which sets $S 66^{\circ} E$. 21 links the 8 inch cedar called for in the government notes is gone.

Beginning at hub 1497.60 we continue our line North to the South side of Crooked Lake but could not find M.C. N^o 14: Meander Corner N^o 13 is also gone: Continue North and set a hub 69.25 feet West of Meander Corner

Going to Meander Corner N^o 32 on the West side of Crooked Lake we find both of the old bearing trees from which we set a stake for the true corner

April 30th 1908 At a point 3432 North of $\frac{1}{4}$ corner on W. side of Sec 35 government chain, the M.C. N^o 12 bears East 69.25 ft so that hub 1497.60 goes East 30.16 ft where I drive a post and set up the transit: Focus telescope on M.C. N^o 12 and run North 2.40 feet and set cedar post at 1500 North: thence I run $N 23^{\circ} 48' E$ 275 ft to angle point for road center of new road: thence $N 16^{\circ} 30' E$: at about 900 feet cross North boundary of Sec 35, - 100 feet East of Crooked Lake and at 1042 set hub for angle point for new road center: thence $N 23^{\circ} 47' W$ 264.50 ft to angle point for new road thence $N 40^{\circ} 42' W$ 456. ft to point on sec line on West side of Lot No 7, Sec 29, 81 feet South of M.C. N^o 12: thence West 225 feet to East end of bridge side:

We correct line between Secs 34 and 35.

At M.C. N^o 13, 14, 30 and 31 I work transit on line between M.C. N^o 29 and 32 and cut out a line East and West intersecting our road line To correct our angle line thro Sec 35-139-26 Hub N^o 2948 goes $N 79^{\circ} 30' W$. 72.20 feet to center of sec 35, and hub 2000 goes $N 79^{\circ} 30' W$ 48.98 ft to cen of new road survey: Hub 1000 we run $N 79^{\circ} 30' W$ 24.49 feet 24.49 feet to cen of new road survey:

May 1st 1908 Correcting North boundary of Sec 36-139-26: at 2640 feet West of $\frac{1}{4}$ Corner the section corner bears $N 58^{\circ} 8' E$ 107.70 feet: Hub 1320 goes $N 58^{\circ} 8' E$ 58.85 ft where we set $\frac{1}{16}$ post and at hub 2640 West of N.E. Cor of Sec 36, the true $\frac{1}{4}$ corner on the North side of Sec 36 bears $S 65^{\circ} 2' E$ 59.20 feet: Hub 1320 goes $S 65^{\circ} 2' E$ 29.60 feet where we place $\frac{1}{16}$ post and road center

July 1st, 1909. John Brookbank, Jasper Waldrop, Wm. Robertson, James Starwalt and John W. Curo running line while the rest of the crew look up Sec. corners ahead of the survey: a meander Cor. No. 38 of Twp. 139-Rge 26, Gov't. notes call for W. Birch 6' N. 50° W. 22 lks: Elm 9' S 30° E 20 lks. The birch is gone but the elm stands plainly marked, from which we set a post for the M.C. with new Bearing Trees as follows: Birch 12 N 82° 8' W 12.98 ft. A tack in old B.T. bears S 30° E 13.20 ft. to tack head. Run west on 8° var. At 117 ft. set stake, a 300 ft. set stake, at 311 ft. set hub, at 838 ft stake, at 838.40 set hub, at 910.15 ft set hub, at 1200 ft. set stake. We use a K. & E. transit and 300 ft. tape.

July 2nd, 1909. Curo transitman, Starwalt and Curo chaining, plumb-bob line. Continue West. a 1309 ft. set hub. Var. changes to 8° 30'; a 2103.40 set hub: Sec. Cor. stands North 32.45 ft. at this point, being corner to Secs. 14, 15, 22, 23, Twp. 139-Rge 26. Notes call for Tam. 6' N 77° E 23 lks., Tam. 6' N 8° W 11 lks., Tam. 6' S. 68° E 21 lks., W. pine 8 S. 50° W 28 lks. We find the old Gov't. stake point, down in the marsh, where we place the transit, and a tack in the W. pine bears S. 50° W. 18.48 ft. Tack in old green Tam. bears N. 64° 3' E 15.18 ft. The S.E. and N.W. trees seem to be gone. We drive in new 3x3x36 Tam. post for the true Cor. and run N. between Secs. 14 and 15 at 8° var. At 500 ft. set hub, at 817.60 ft set hub on hill, at 935 ft. wagon road bears E. & W., at 1000 end of W. side of bog, at 1175 ft. leave bog, at 1281 ft. set hub.

July 5th, 1909. Harry Meacham and Curo chaining, Curo transitman C.B. Meacham, Wm. Robertson, Rufus Flemming, axemen. Continue N. between Secs. 14 & 15. At 1707.80 set hub, at 2288 set hub, at 2640 set hub. The 1/4 Cor. is gone and we continue N. at 3171 set hub, at 3328.80 set hub, a 3615 set hub, a 3920 ft. centre of deep gulch, which runs E. to Crooked Lake, a 4289.50 set hub, a 4500. centre of small gulch which runs E., a 4600 stake.

July 6th, 1909. Continue N. At 4999.60 hub, a 5791.60 set hub, a 5280 set hub. At the Cor. to Secs. 10, 11, 14, 15, 139-Rge 26 we do not find the Bearing Trees and continue N. At 5527 set hub, a 5829.50 set hub

July 7th, 1909. Continue. At 6095.50 tack in log, at 6500 stake in Spring hole, at 6418 hub, at 6600 stake, at 6884.60 set hub, at 7171 hub, at 7350 leave swamp, at 7398.80 set hub, at 7806 set hub on hill N. of Wagon road. Road bears S.E. & N.W. At 7920 set hub. The 1/4 cor between Secs. 10 & 11, 139-26, bears 346 ft. South and 187 ft. West. At this point the notes call for Q. pine 20' N 82° W 37 lks., Q. Pine 20' S. 47° E 42 lks. We find the stumps of both trees dimly marked, and they have been re-marked by some surveyor. We set a 4" x 4" x 40" cedar post for the true 1/4 Cor.

July 8th, 1909. Going back south to hub No. 5280 I chain south 22.60 ft. to hub 5257.40 N., which fixes the dist. as to N. & S., at which point I mark a hub "A" for temporary Cor. to Secs. 10, 11, 14, 15, 139-26. Hub "A" we mark Sta. 0.0 from which we run E. a 8° var., p.b. line. At 200 stake in cedar swamp, a 208.20 hub, a 225 stake. enters Squaw Pond. We get a boat and swing our 300 ft. tape across and at 400 leave pond, a 425 stake, a 500 stake, a 536.20 hub in swamp, a 888.80 ft. hub, lv. swamp; foot of big hill; a 1050 top of hill, a 1500 stake in centre of N. & S. wagon road, a 1612.70 hub on beaver dam, a 1921 hub near big bog at 2700 stake.

July 9th, 1909. The 1/4 bet. Secs. 11 & 14 is gone: we continue East.

No 173. Cont'd

at 2993.50 tack in big 30" W pine stump, @ 4300 stake in little swamp, @ 4600 stake in swamp, at 4724 hub, @ 4900 stake, @ 5175.20 hub, @ 5200 stake, we find the Sec. Cor. about 300 ft. W.; @ 11, 12, 13, 14, 139-26 notes call for W. pine 12 N 70° E 222 lks., W. pine 6 N 35° W. 122 lks., W. birch 6 S 57° W. 49 lks., W. birch 5 S. 35° E. 53 lks. We find the N.W. wh. pine well marked but down, the roots still held in the ground; and we find the stump of the 12" NE pine plainly marked, and we find the old Gov't. stake down under the moss. I set a bur oak stake 4 x 4 x 36 for the true cor. With transit set at this point a tack in old B.T. bears N 70° E 146.52 ft. and a tack in up-turned end of root bears N 35° 33' W 80.52 ft. Tack in new 6" pop. bears S 11° 20' W. 35.21 ft. @ 6° 50' var. At stake 4900 the true cor. just set bears 22.80 ft. S. and 15.40 ft. W.

July 10th, 1909. Reclaiming N. bdy. Sec. 14 we find that between our 1600 stake and our 1800 stake is really 300 ft. so that dist. E. from hub 0.0 to the Sec. Cor. is 4984.60 ft. Going back to Hub "A", Sta. 0.0, we run West on 8° var. At 71.80 hub on hill, @ about 400 cross N. & S. wagon road, @ 1826.90 hub on hill-top, @ 2719.70 ft. the 1/4 cor. sets N. 7.10 ft. At this point, being 1/4 Cor. bet. Secs. 10 & 15, Gov't notes call for G. pine 14 N 49° W 60 lks., W. pine 15° S 30° E 20 lks. We find both old stumps plainly marked, from which we set the 1/4 Cor., after which stumps stand S. 33° 3' E 13.20 ft., & N. 45° 17' W. 39.60 ft. New bearing is Oak 3 S. 11° E. 13.70 ft. to tack head, at 8° 46' var. Chained perfectly with p. b. line.

July 11th, 1909. As the total dist. of 2669.70 ft. and 5258.88 ft. being a total of 7928.58 Gov't chain, from the 1/4 Cor. bet. Secs. 10 & 15, 139-26. East to the Cor. of Secs. 11-12-13-14 is 7704.30 ft. my chain, being 224.28 ft. short. The N. end of Sec. 14 is 148.76 ft. short, or 5258.88 ft. Gov't. chain, equals 5110.12 ft. my chain. And the N. end N.E. 1/4 of Sec. 15 is 75.52 ft. short, or 2669.70 ft. Gov't. chain, equals 2594.18 ft. my chain. At hub "A" being Sta. 0.0 we chain west 125.52 ft. and set the true Cor. to Secs. 10, 11, 14, 15, 139-26, with new bearings as follows: Pop. stub 12 N. 23° 12' E. 44.36 ft., W. Pine 10 S. 82° 12' E 29.10 ft. to tack heads, at 8° 46' var. We drove a 4" x 4" x 36" stake for the true Cor. and corrected the line South.

July 12th, 1909. We finish correcting the finished lines, including the South bdy. of the S.W. 1/4 of Sec. 14.

July 13th, 1909. James Starwalt, Loe Aldo, J. Brookbank, Wm. Robinson, Curo, etc., beginning at the Cor. to Secs. 14, 15, 22, 23, 139-26, run South between Secs. 22-23 on 8° 30' var. At 1245.20 ft. set hub, at 2435.30 ft. set hub, @ 2640 set hub. The 1/4 cor. bet. 22-23 is gone. At 2649 at stake set by B.B. Bartlett sets 7 ft. West and he has put in a 6" Pop. B.T. about N 30° W. 5 paces. At 2989.50 set hub, @ 3000 stake.

July 14th, 1909. Continue South. At 3916 set hub. At 4600 enter Sw., @ 4900 lv. swp. enter hill, at 5022 hub on hill top, @ 5250 hub. True corner sets 14 ft N. and 31.80 ft. W. so that at 5266 the Cor. to Secs. 22, 23, 26, 27 sets West 31.80 ft. At this point the notes say W. pine 24 N 24° E 149 lks., W. pine 30 N 53° W. 35 lks., W. pine 32 S. 30° E. 70 lks., W. pine 29 S. 22° W. 90 lks. We find the N.E., N.W. & S.W. old B.T. stumps, but the dist. between the N.E. and S.W. trees is 1.85 ft. short.

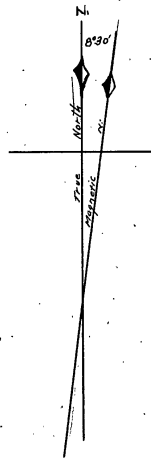
PLAT.

Secs 10.11.12.13.14.15.21.22.23.25.26.27.28.
34.35.36. T139. R26 5th P.M.

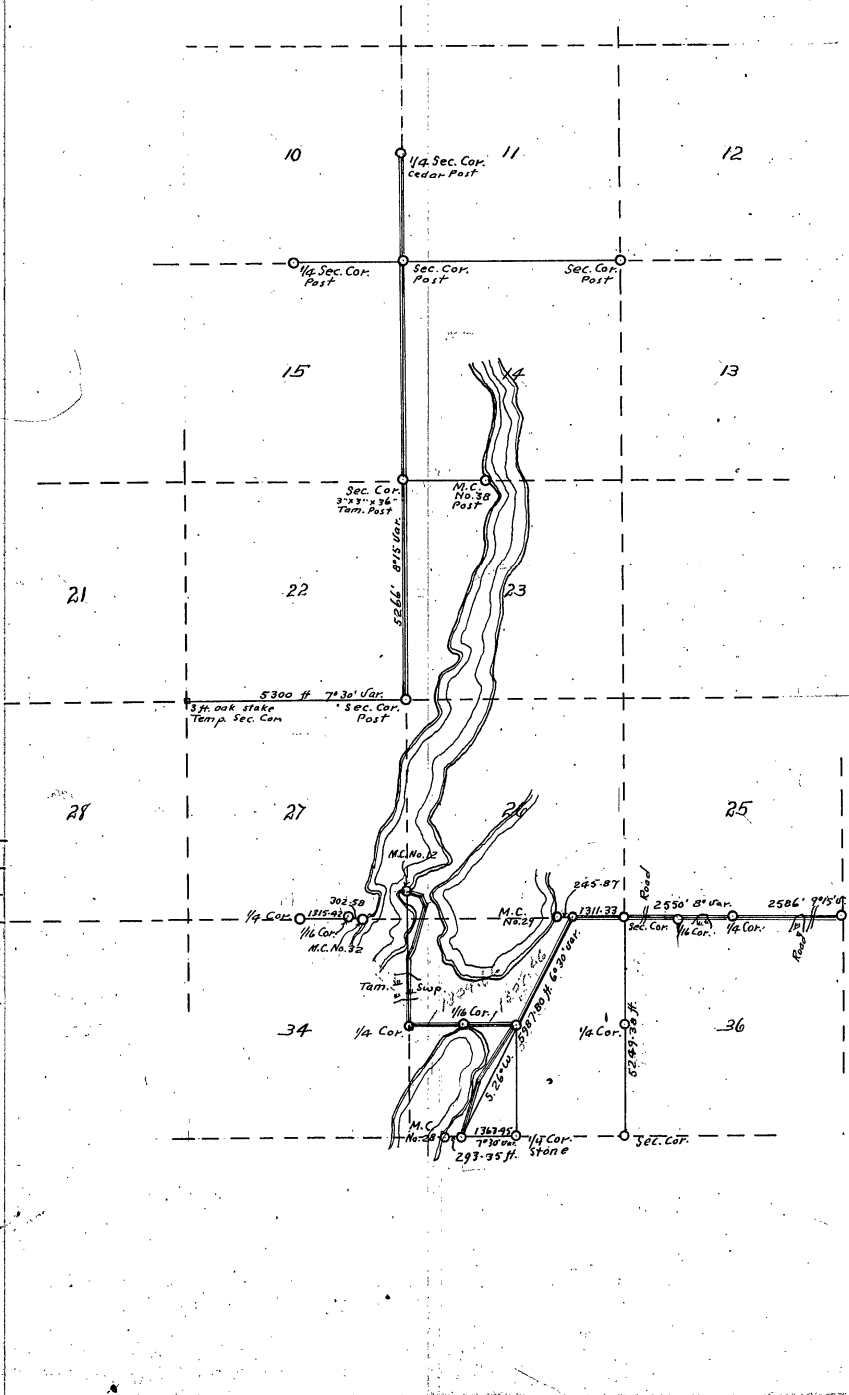
SURVEY RECORD No 173.

SCALE 2 INCHES = 1 MILE

==== ROADS
O = WOOD SEC. COR. POSTS



Surveyed April 21st 1908 to July 10th 1908
Recorded Jan 1st 1912
John W. Bliss Co. Surveyors
Cass Co. Minnesota



making the N.E. 115 ft. short, and the S.W. 0:70 ft. short. July 15th 1909. We set a 5x5x40" post at Cor. to Secs. 22-23-26-27, 139-26, after which a W. pine stump, marked by some surveyor stands S. 30°34'E 44.75 ft. to tack head, at 8°46' var. We correct the line North.

Beginning at the Cor. to Secs. 22-23-26-27, we run West on 7°30' var. at 1334.70 ft. set hub, @ 2140 enter swp., @ 2375 lv. swp., @ 2503 hub, @ 2719.40 ft. set hub. The 1/4 Cor. is gone.

July 16th, 1909. Continue West between Secs. 22 & 27, 139-26. Curo transitman, Robertson, Brookbank, Alds, C. B. & Harry Mescham. At 2719.40 ft. set hub, at 3000 stake, @ 3488.80 ft. hub, @ 3978.60 hub, @ 4300 stake, @ 5005.50 set hub, @ 5100 hub, @ 5300 drive a good 3 ft. dry burned oak hub and tack near North edge of hub. for temporary Cor. to Secs. 21-22-27-28, 139-26, where notes call for Burr Oak 6, N. 70° E. 22 lks, Burr Oak 6 S. 62°30'E 13 lks., Burr Oak 6 S. 16° W. 14 lks., W. Pine 24 N. 57° W. 6 lks. We do not find the trees and quit the survey for the present. I am told the Cor. stands 300 or 400 ft. farther west; we will look this up later. Brookbank and I correct the line between 22 and 23.

July 17th, 1909. At M.C. No. 32, 139-26, on S.C. Cor. Sec. 27, Gov't. notes call for W. Birch 10 N. 67° W. 23 lks, W. Birch 6 S. 65° W. 34 lks. We found the N.E. Birch broken off 4 ft. above the ground, with both the trunk and stump plainly marked, and at 8°46' var. measure from face of figures, we check out perfect with an old stake set for the true M.C. No. 32. Run West on 8°30' var. At 129.60 set. hub on hill, @ 300 stake, @ 303.60 hub, temporary 1/6 Cor. At 325. enter rocky wall of lake and follow along rock shore. At 600 stake, lv. lake shore, @ 644.20 set hub, @ 748.80 set hub, @ 900 stake, @ 1200 stake, @ 1241.60 hub, @ 1500 stake, @ 1623.60 hub, temp'y. 1/4 Cor. between Secs. 27-34. The true 1/4 Cor. sets East 5.50 ft and North 16.70 ft. At this point the notes say W. pine 26 N. 35° W. 18 lks., W. pine 22 S. 65° W. 66 lks. We find both stumps plainly marked, and, after setting a stake by flat measurement from face of figures a tack in the old stumps bears S. 68°31' W. 43.56 ft., and N. 35°34' W. 11.88 ft. @ 8°46' var. The total length of this line 1618 ft. my chain, equals 1623.60 ft. Gov't. Chain, or 5.50 ft. short. Hub 303.60 goes E. 188 ft. and N. 3.12 ft., where we set the true 1/6 post, at S.W. Cor. of Gov't. lot No. 3, Sec. 27, Twp. 139-26, with new bearings as follows: W. pine stump 12 S. 79°44'E 13.90 ft., Oak stump 8 S. 81°13' W 11.90 ft. to tack heads, at 8°46' var. Curo and Starwalt chained perfect P.B. line, 300 ft. Chicago steel tape, N. & E. transit.

July 18th, 1909. Beginning at 1/6 post at S.W. Cor. Gov't. lot 3, Sec. 27, 139-26 run N. on 8° var. At 22.70 ft. set hub, @ 140 ft. of big hill, @ 300 stake, @ 360 hub on hill, @ 533.50 hub on N. brow of hill, @ 600 stake, @ 650 foot of big hill, @ 900 stake, @ 942.40 set hub in flat, @ 1200 stake, @ 1320 set hub. Quit this line for the present. Then, to find a road line across Crooked Lake narrows, I begin @ hub 942.40 and run E. @ 90° angle to my preliminary line, rough chaining. At 644.50 set hub on hill top. We find that this line is 40 or 50 ft. too far North, and a line run East from hub 900 would have missed the foot of the hill just right for road purposes. Brookbank, Starwalt, Alds, Robertson and Mescham. Curo. worked.

July 19th, 1909. Beginning at hub 644.50 we run South 42.40

ft., at which point we are 900 ft. North and 644.50 ft. East of S.W. Cor of Govt. Lot No. 3. We set a stake marked "A.P., Road Centre", then run South 70° E. 767 ft. to oak tree, then N. 70° E. 85 ft. to water's edge on the sharp point of the narrow 70 ft. East of the point the water is only 5 ft. deep, & 100 ft. E. it is 1 ft. deep, then it is 50 ft. farther E. to solid ground. The bridge will probably be 70 ft. span, with 80 ft. approaches on each side, where the water will begin 5 ft. deep.

Recorded Jan 1st 1912
 John W. Curro, Co. Surveyor
 Pass Co. Minn

-NOTES-

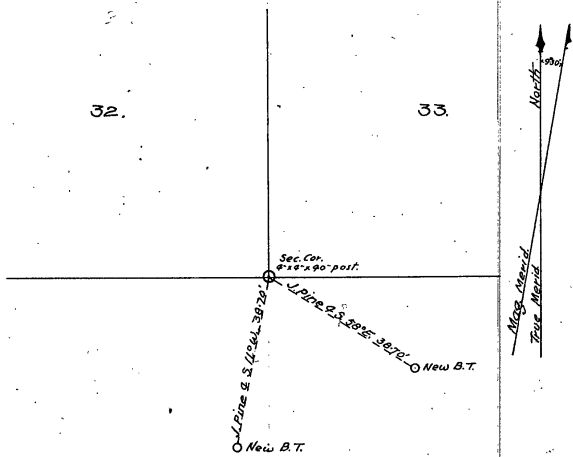
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SURVEY RECORD No. 174.
SECTIONS 32 & 33, TWP. 139 N., R. 31 W.,
5TH. P. M.

Field notes of the survey of Secs. 32 & 33, Twp. no. 139 N., R. no. 31 W., 5th Principal Meridian, as made by John W. Curo, County Surveyor of Cass Co., Minn., assisted by M. A. Kemp and Hans L. Larson, June 26th, 1912. At the S.E. Cor. to Sec. 32, being the S.W. Cor. of Sec. 33, Twp. 139 N., R. 31 W., the field notes of the original Government Survey call for a post and the following Bearing Trees: - Black Pine 8" N. 27° E, 29 lks.; Black Pine 10" N. 38° 30' W. 32 lks.; Black Pine 10" S. 77° W. 15 lks.; Black Pine 8" S. 8° E., 27 lks. I find the square post previously established by me for the true Corner, set from old Gov't. Bearing Trees, and as the fire has nearly destroyed the trees, and the post has partly rotted, and as the old B. T. stumps are so close together that the building of a new road at this point would destroy them, I put in a new pine post, 4 x 4 x 40 inches in size, driven well into the ground, with new bearings as follows: - α Pine 4 S. 58° E. 38.70 ft., β Pine 4 S. 11° W. 38.70 ft. We marked the trees "new B. T." We use a Junley's Surveyor's Compass, and a 300 ft. Chicago steel tape. All courses turned from the true meridian @ 9° 30' magnetic variation. Measurements taken to face of trees.

PLAT.

SCALE: 1" = 25 FT.



Surveyed June 26th 1912
Recorded July 5th 1912
John W. Curo, Co. Surveyor
Cass Co. Minn.

- NOTES -

See Cont'd On Page of Book
32 " " "
33 " " "

- PLAT -

See Cont'd On Page of Book
32 " " "
33 " " "

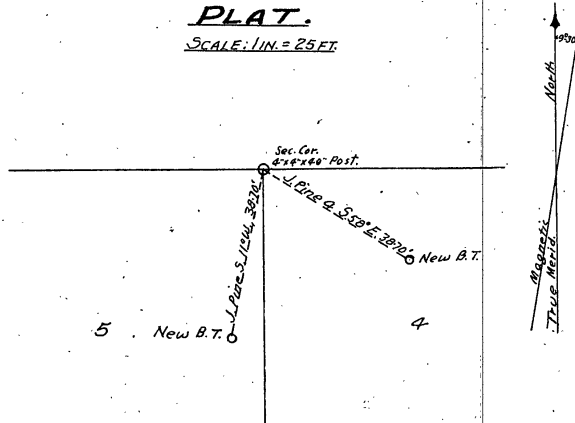
SURVEY RECORD No. 175.
SECTIONS 4 & 5, TWP. 138 N., R. 31 W.,
5TH P.M.

Field notes of the survey of Sections 4 and 5, Twp. No. 138 N., Range No. 31 W., 5th Principal Meridian as made by John W. Curo, County Surveyor of Cass Co., Minn., assisted by M. A. Kemp and Hans. L. Larson:

June 26th, 1912. At the N.W. Corner of Section 4, being the N.E. Corner of Sec. 5, Twp. 138 N., Range 31 W., the field notes of the original Government Survey call for a post and the following bearing trees:-
Black pine 8° N. 27° E. 29 lts.; Black pine 10 N. 38° 30' W. 32 lts.; Black pine 10 S. 77° W. 15 lts.; Black Pine 8 S. 8° E., 27 lts.

I find the square post previously established by me for the true corner set from the old bearing trees; but as the fire has nearly destroyed the trees and the post has partly rotted away, and as these old stumps are so close together that the building of a new road at this point would destroy them, I put in a new pine post 4 x 4 x 40 inches in size, driven well into the ground, with new bearing trees as follows:- Jack pine 4 S. 58° E. 38.70 ft., J. Pine 4 S. 11° W. 38.70'. We mark the trees "New B.T." We use a Gurley Surveyor's Compass and a 300 ft. Chicago steel tape. All courses turned from the true meridian @ 9° 30' magnetic variation. Measurements taken to the face of the trees.

PLAT.
SCALE: 1 IN. = 25 FT.



Surveyed June 26th 1912
Recorded July 5th 1912
John W. Curo, Co. Surveyor
Cass Co. Minn.

-NOTES-

Sec Cont'd On Page of Book
4 " " 588 " A"

-PLAT-

Sec Cont'd On Page of Book
5 " " 597 " A"

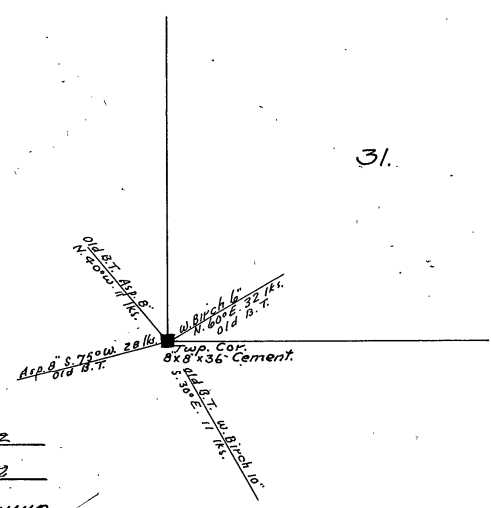
SURVEY RECORD No. 176
SECTION 31, TWP 139 N., R. 31 W.
5TH P.M.

Field notes of the survey of Section No. 31, Twp. No. 139 N., Range No. 31, W., 5th Principal Meridian, as made by John Curo, County Surveyor of Cass Co., Minn., assisted by Howard Malmo, Harry Larson, Hans. L. Larson, M. A. Kemp. We use a new Heller and Brightly Engineers' Transit, a Gurley compass and a 300 ft. Chicago steel tape.

June 24th, 1912. At the S. W. Corner of Section 31, Twp. 139, Range 31 W. Gov't. notes call for a post and the following bearing trees:-
 White birch 10 S. 30° E. 11 lks., Aspen 8 S. 75° W. 28 lks., White birch 6 N. 60° E. 32 lks., Aspen 8 N. 40° W. 11 lks.

We find the point for this corner, previously established by James M. Canfield at the time he was County Surveyor of Cass Co., and at this point we place an 8x8x36 inch cement post, bedded its full length in the ground, for the true Section Corner, which comes at the exact intersection of the main, graded, East and West Wagon Road with the main, graded North and South wagon road. All of the old bearing trees called for in the Government field notes have been grubbed out and are gone.

PLAT.



Surveyed June 24th 1912
Recorded July 5th 1912
John W. Curo, Co. Surveyor
Cass Co. Minn

-NOTES-
 Sec Cont'd on Page of Book
 31

-PLAT-
 Sec Cont'd on Page of Book
 31

SURVEY RECORD No. 177.
SECTIONS 6 & 7, TWP. 138 N., R. 31 W.
5TH. P.M.

Field notes of the survey of sections 6 and 7 town no. 138 N., range no. 31 W., 5th principal meridian as made by John W. Curo, County Surveyor of Cass County, Minnesota, assisted by Howard Melms, Harry Larson, Hans L. Larson, M. A. Kemp. We use a new Heller and Brightly Engineer's transit, a Gurley Compass and a 300 foot Chicago steel tape: at

June 24 1912. At the N.W. corner of section 6 Twp. 138, R. 31 W., Gov't notes call for a post and the following bearing trees: White Birch 10 S 30° E 11 links; Aspen 8 S 75° W 28 links; White Birch 6 N 60° E 32 links; Aspen 8 N 40° W 11 links. We find the point for this corner, previously established by James M. Canfield, at the time he was County Surveyor of Cass County, and at this point we place an 8x8x36 inch cement post bedded its full length in the ground for the true section corner, which corner is at the exact intersection of the main graded East and West wagon road with the main graded North and South wagon road.

At the S.W. corner of sections 6 and 7, Gov't notes call for a stake and the following bearing trees: Spruce 6 N 50° W 17 lks., Spruce 6 S 20° W 9 lks., Spruce 12 S 30° E 29 lks., Spruce 6 N 15° E 30 lks. We find the point for this corner previously established by James M. Canfield at the time he was County Surveyor of Cass County Minnesota and at this point we place an 8x8x36 inch cement post in the ground so that when the road is graded to the general elevation of the ground, the top of the cement post will be road grade.

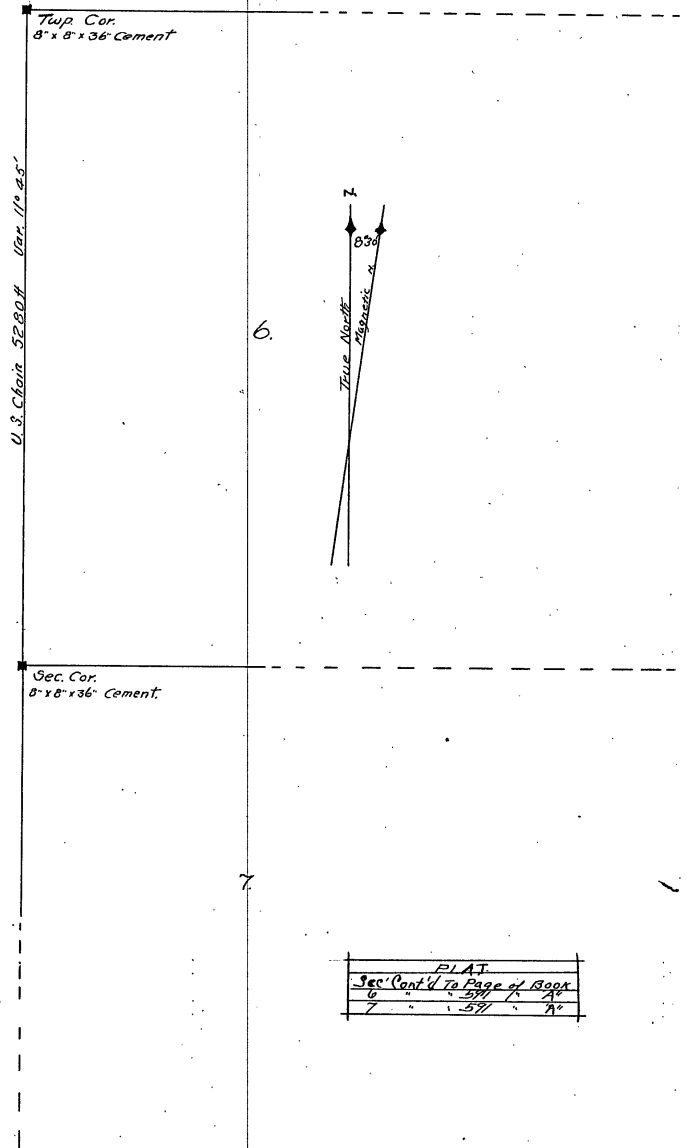
We find one of the old S.E. bearing trees plainly marked and the roots of the old N.E. stump, which check out for course and distance.

Recorded July 5th 1912.
John W. Curo, Co. Surveyor
Cass Co. Minn

NOTES	
6	See Cont'd' in Copy of This Book
7	" " 582 " " "

PLAT.
SECS. 6 & 7, TWP. 138-31.
SCALE: 6 IN. = 1 MILE.

SURVEY RECORD No. 177.



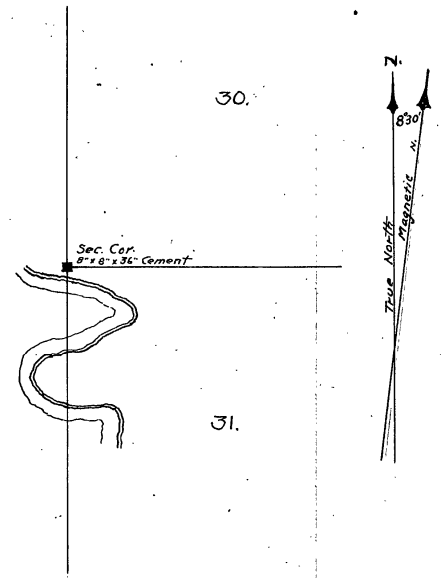
Surveyed June 24th 1912
Recorded July 5th 1912
John W. Childs, C. Surveyor
Press Co. Mainer

PLAT.	
Sec. Cont'd to Page of Book	
6	571
7	572

- PLAT -			
See Cont'd From Page of This Book			
30	"	339	"
31	"	339	"

PLAT.
SECTIONS 30-31, T. 138, R. 31
 SCALE: 3 IN. = 1 MILE

SURVEY RECORD No. 178.



Surveyed June 24th 1912
Recorded July 5th 1912
John W. Cass, Co. Surveyors
Pass Co. Minn.

NOTES—	
Sec Contd From Page of This Book	
30	338
31	338

SURVEY RECORD No. 178.
SECS. 30 & 31, TWP. 138 N., R. 31. W.
5TH P.M.

A 405

Field notes of the survey and establishment of cement section corners in sections no. 30 and 31, Township no 138 N, range no. 31 W, 5th principal meridian, as made by John W. Curo, County Surveyor of Cass County, Minnesota, assisted by Jess Watson, and Harry Stainbrook: We use a W. & S. E. Gurley Surveyors Compass and a 50 foot steel tape.

June 24th, 1912. At the S. W. corner of section 30, being the N. W. corner of section 31, government notes of the old survey calls for a post and the following bearing trees: Pine 8 N 85° E 16 links; Pine 10 N 81° W 43 links; Pine 6 S 63° W 25 links; We find the stumps of all three trees plainly marked, from which we find an old stake previously established by me for the true corner:

We pull up the stake and put in its place an 8 x 8 x 36 inch cement post set its full length in the ground for the true S. W. corner of section 30 and the N. W. corner of section 31 township 138 N range 31 W.

Recorded July 5th, 1912.
 John W. Curo, Co. Surveyor
 Cass Co. Minn

SURVEY RECORD No. 179.
SECS. 3 & 4, TWP. 137 N., RGE. 32 W.
5TH P.M.

Field notes of the survey and setting of cement section corners in sections 3 and 4 Township no. 137 N., range no. 32 W., 5th principal meridian as made by John W. Curo, County Surveyor of Cass County Minnesota, assisted by Harry Stainbrook and Jess Watson.

June 24th 1912. At the N.W. corner of section 3, being the N.E. corner of Section 4, of Township 137, range 31 old government notes call for a post and the following bearing trees; N. Pine 18 S 25° 30' E 52 lks., N. Pine 12 S 23 W 87 lks., N. Pine 14 N 70° 30' E 44 lks., W. Pine 7 N 42° W 95 lks. We find the old S. E. tree from which we set an 8 x 8 x 36 inch cement post for the true corner, by bedding the post its full length in the ground. The N.E., N.W. and S.W. bearing trees have been burned.

We use a W & S. E. Gurley Surveyors compass and a 50 foot steel tape. All courses turned from the true meridian at 8° 30' variation and measurements taken from the face of the old bearing trees;

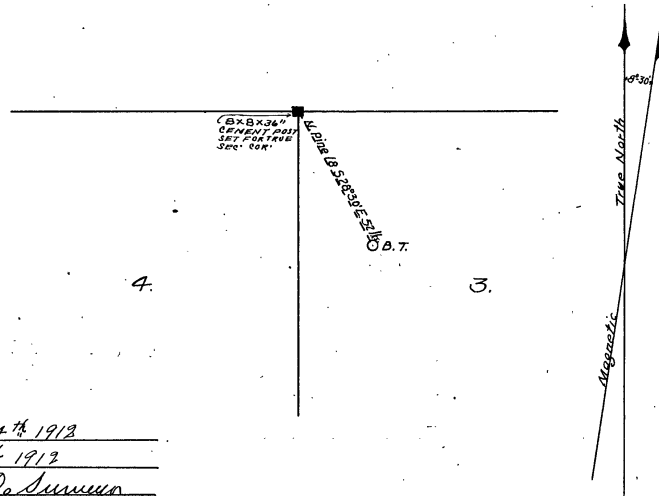
Recorded July 5th. 1912.
John W. Curo, Co. Surveyor
Cass Co. Minn

NOTES OF		
Sec	Carried To Page of Book	
3	573	"A"
4	573	"A"

PLAT.
SECS. 3-4, TWP. 137N., R. 32W.

SCALE: 25 FT. TO 1 IN.

SURVEY RECORD No. 179.



4.

5.

Surveyed June 24th 1912
Recorded July 5th 1912
John W. Cline, Co. Surveyor
Press C. Mason

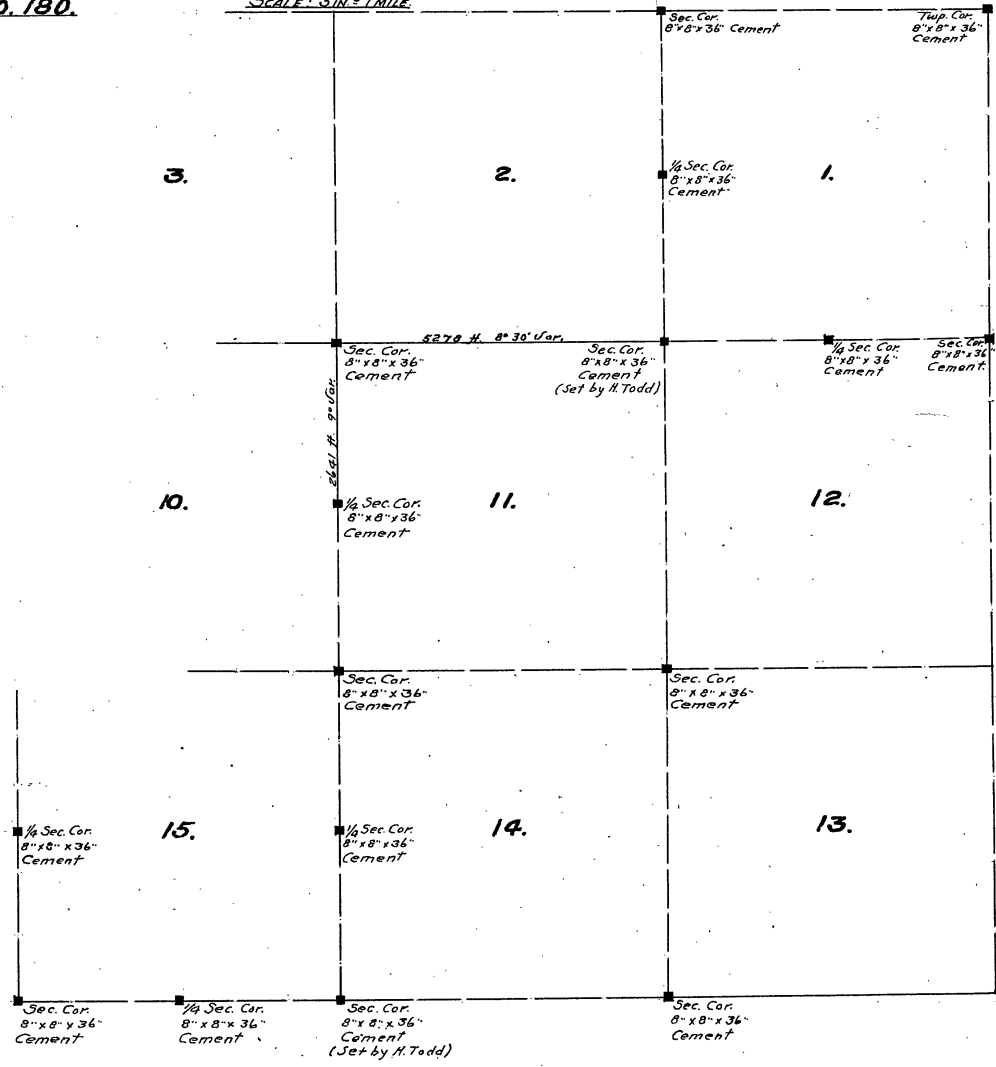
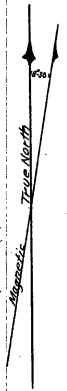
PLAT OF	
Sec	Carried to Page of Book
4	1592 - A

Sec Cont'd From Page of This Book

1	"	"	92	"	"	"
2	"	"	95	"	"	"
11	"	"	96	"	"	"
12	"	"	99	"	"	"
14	"	"	100	"	"	"
15	"	"	103	"	"	"

PLAT.
SECS. 12, 3, 10, 11, 12, 13, 14, 15.
TWP. 138 R. 32.
 SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 180.



Surveyed June 21st to 25th 1912
Recorded July 5th 1912
John W. Curtis, Co Surveyor
Dress @ Minnesota

Sec Cont'd on Page of Book

1	"	"	411	"	A
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3	"	"	"	"	"
10	"	"	411	"	A
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13	"	"	411	"	A
14	"	"	411	"	A
15	"	"	411	"	A

Field notes of the survey of a part of Township no. 138 N, range no. 32 W, 5th principal meridian and the setting of section corners in sections 1, 2, 3, 10, 11, 12, 13, 14 and 15 as made by John W. Curo, County Surveyor of Cass County Minnesota.

At the N.E corner of section 1 being the township corner government notes call for a post and the following bearing trees: white Birch 10, S 30° E 11 links. Aspen 8 S 75° W 28 lks. W. Birch 6 N 60° E 32 lks. Aspen 8 N 40° W 11 lks. we find the point for this corner previously established by James M. Canfield at the time he was the county surveyor of Cass County Minn., and at this point we place an 8x8x36 inch cement post bedded its full length in the ground for the true Township corner which comes at the exact intersection of the main graded East and west wagon road with the main graded north and south wagon road.

All the old bearing trees called for in the government field notes are gone.

At the S.E corner of section 1, being the N.E. Corner of Sec. 12, Gov't. notes call for a post and the following bearing trees: Spruce 6", N. 50° W. 17 lks., Spruce 6": S. 20° W. 9 lks., Spruce 12": S. 30° E. 29 lks., Spruce 6": N. 15° E. 30 lks.

We find the point for this corner previously established by James M. Canfield at the time he was County Surveyor of Cass Co., Minn., and at this point we place an 8"x8"x36 inch cement post in the ground, so that when the road is graded to the elevation of the ground, the top of the cement post will be road grade.

We find one of the old S.E. bearing trees plainly marked and the roots of the old N.E. bearing tree stump, which check out for course and distance.

At the 1/4 Corner between Secs. 1 and 2, Gov't. notes call for a post and the following B.T.'s: Aspen 4" N. 12° 30' E. 18 lks., Aspen 3", S. 48° E. 8 lks. We find the place previously established for the true 1/4 corner by James M. Canfield at the time he was County Surveyor of Cass Co., Minn. and at this point we place an 8x8x36 inch cement post its full length in the ground. The post comes in the centre of the E. and W. wagon road.

At the corner to Secs. 1, 2, 11, 12, Gov't. notes call for a post and the following bearing trees: Tam. 3", S. 16° 30' W. 63 lks., Tam. 4": S. 62° E. 65 lks., W. Pine 14": N. 87° 30' E. 1364 lks. We find an 8"x8"x36" cement post set in the centre of the N. & S. wagon road by Harry S. Todd, Deputy County Surveyor of Cass Co., at a point previously established by John W. Curo, from old Gov't. bearing trees.

My old field book shows that on March 27th, 1908, John W. Curo, Hans L. Larson and Bert Melms went to the corner of Sections 1, 2, 11, 12, T. 138 N., R. 32 W., and found an old stake which set the correct distance and course from one old three inch tamarac bearing standing southeasterly. The stake is the old Gov't. stake and stands at the true corner. Run north on 9° var. at 1320 ft. set hub, at 2640 ft. set hub for temporary 1/4 corner between Sections 1 and 2, at which point the notes of the old Gov't. Survey call for a post and the following bearing trees: Aspen 14 S. 72° 30' W. 33 lks., Aspen 4" N. 70° E. 20 lks. All are gone and we continue north. at 3960 set hub, at 5280 set hub, at 5322 ft. set temporary corner. The true N.W. cor. of Sec. 1 bears S. 60° 20' W. 81.80 ft.

SURVEY RECORD No. 180.

At this point, being the corner to Sections 1 & 2 on the North side of Twp. 138, R. 32, Gov't. notes call for a post and the following B.T.'s: - P. Pine 10, N. $67^{\circ}30'$ E. 10 lks., P. Pine 7, S. 48° E. 47 lks., P. Pine 14, S. $7^{\circ}30'$ W. 26 lks., P. Pine 9 N. $62^{\circ}30'$ W. 22 lks. We find the old B.T.'s from which we set a $4 \times 4 \times 36$ inch stake for the true corner and then correct the line back south.

At hub 3960 we run S. $60^{\circ}20'$ W. 40.57 ft. where we drive a $4 \times 4 \times 36$ stake for the true $1/4$ Corner between Secs. 1 & 2, and marked new B.T.'s as follows: Oak 8, S. $49^{\circ}16'$ E. 51.52 ft., Poplar 3 S. $69^{\circ}19'$ W. 55.20 ft. at hub 1320 we run S. $60^{\circ}20'$ W. 20.28 ft. where we drive a $4 \times 4 \times 36$ inch stake for the true $1/16$ corner.

On June 22 and 24th 1912, Hans L. Larson, John W. Curo and Howard Melmo pull up the wood stakes and put in their place an $8 \times 8 \times 36$ inch cement post its full length in the ground at the following corners: - the $1/4$ Corner between Sections 1 & 2 and the N.W. corner of Section 1, being the N.C. Corner of Sec. 2, Twp. 138, R. 32.

Beginning at the corner to Secs. 1, 2, 11, 12, 138-32, we run West on $8^{\circ}30'$ bar. At 676.10 ft. set hub, @ 1500 set stake, enter swp., @ 1600 lv. swp., @ 1940.50 set hub, @ 2700 set stake. At the $1/4$ corner between Secs. 2 and 11 Gov't. notes call for a post and the following B.T.'s: - Aspen 3 N. 45° W. 13 lks., Aspen 4 S. $12^{\circ}30'$ E. 10 lks., All are gone and we continue our line west. At 3130.20 set hub, @ 4088.40 set hub, @ 4400 enter swp., @ 4510 leave swp., @ 4850 set hub, @ 5100 set stake, enter tamarac swp., @ 5278 the corner bears South 1.67 ft. At this point, being the corner to Secs. 2, 3, 10, 11, Twp. 138, R. 32, the Gov't. notes call for a post and the following bearing trees: - Tam. 9 N. $46^{\circ}30'$ E. 32 lks., Tam. 7 N. $15^{\circ}30'$ W. 33 lks., Tam. 9 S. 48° E. 12 lks., Tam. 5 S. 6° W. 6 lks. We find the stumps of all the old B.T.'s from which we set an $8 \times 8 \times 36$ inch cement post its full length in the swampy ground. We carried sand from a point of land 150 ft. East and bedded it under and around the cement post to hold it in place.

Correcting back East. Hub 4850 is set south 1.50 ft., hub 4088 goes south 1.29 ft., hub 3138.20 goes South 1 ft., hub 1940.50 goes South .61 ft., hub 676.10 goes south .21 ft. At all all correction hubs we drive a $3 \times 3 \times 15$ inch hub flush with the ground, and drive a witness stake marked "Road Centre - Section Line."

The line run between Secs. 2 and 11 was made for a road survey.

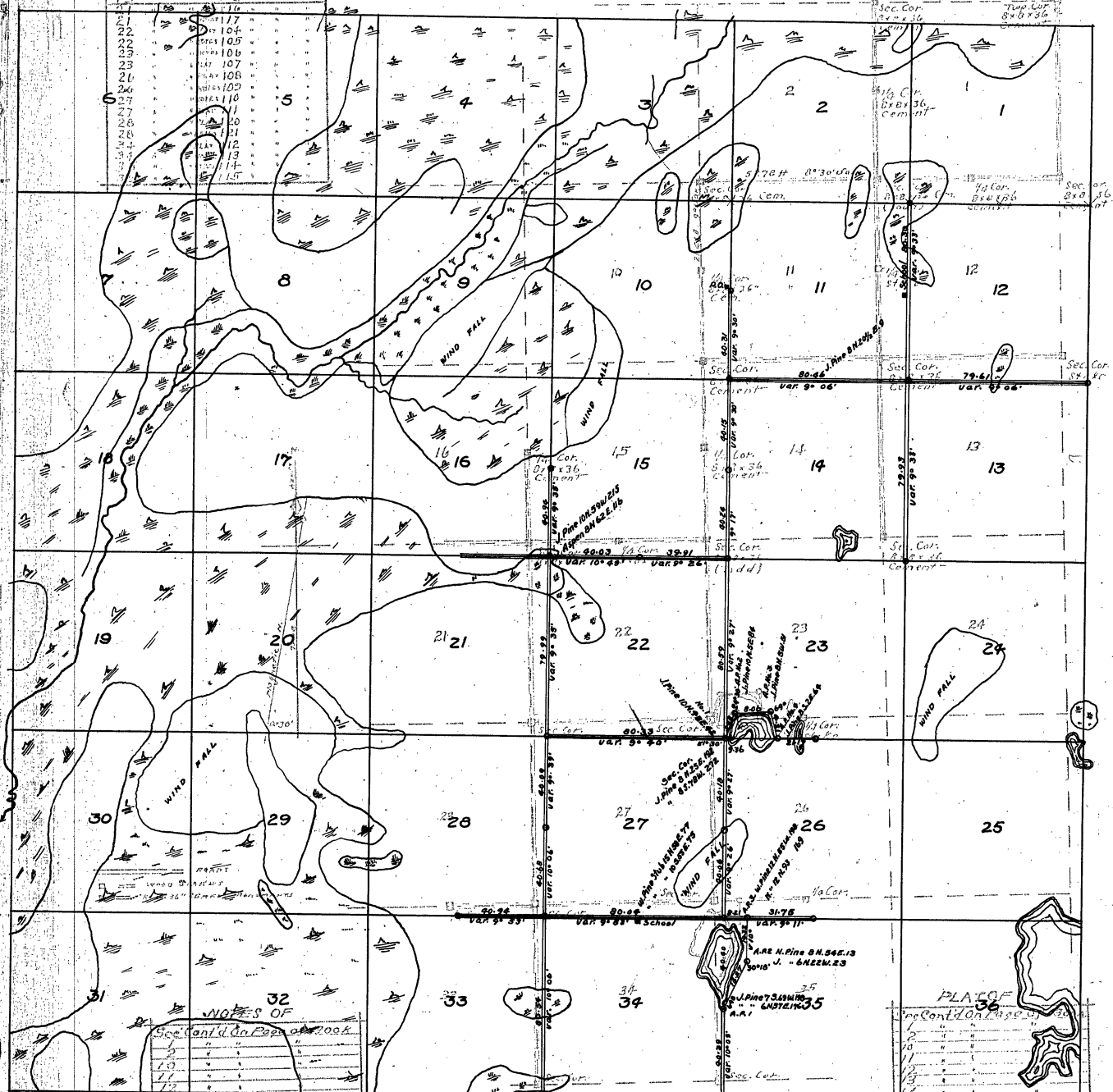
At the $1/4$ corner between Secs. 10 & 11, Twp. 138, R. 32, Gov't. notes call for a post and the following B.T.'s: - B. Pine 11 S. 87° W. 10 lks., B. Pine 12 N. 76° E. 14 lks. We find the stumps of both trees, the Easterly one being plainly marked. They stand perfect for course, but they stand .36 ft. too far apart, measured from face of stumps; we set hub and back for true $1/4$ Corner, after which the old stumps stand as follows: - S. 87° W. 6.75 ft., and the other bears N. 76° E. 9.45 ft.

Twp. 138 N. R. 32 W. SURVEY RECORD NO. 1891

TOWNSHIP N^o 138 N. RANGE N^o 32 W. 5th MER. MINNESOTA.

SCALE: 1 IN. = 100 FT.

1	408
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34	408
35	408



I, J. M. Canfield, County Surveyor of Cass County, do hereby certify that I have duly deputized Mr. John Usher a surveyor, to survey the above roads, marked in red ink, and that I have plotted and caused the same to be filed with the Town Clerk, this 26th day of February 1903.

Signed James M. Canfield

I, John Usher a surveyor do hereby certify that I have surveyed the above roads, marked in red, and that the above is a true copy of the survey, as surveyed by me upon the grounds.

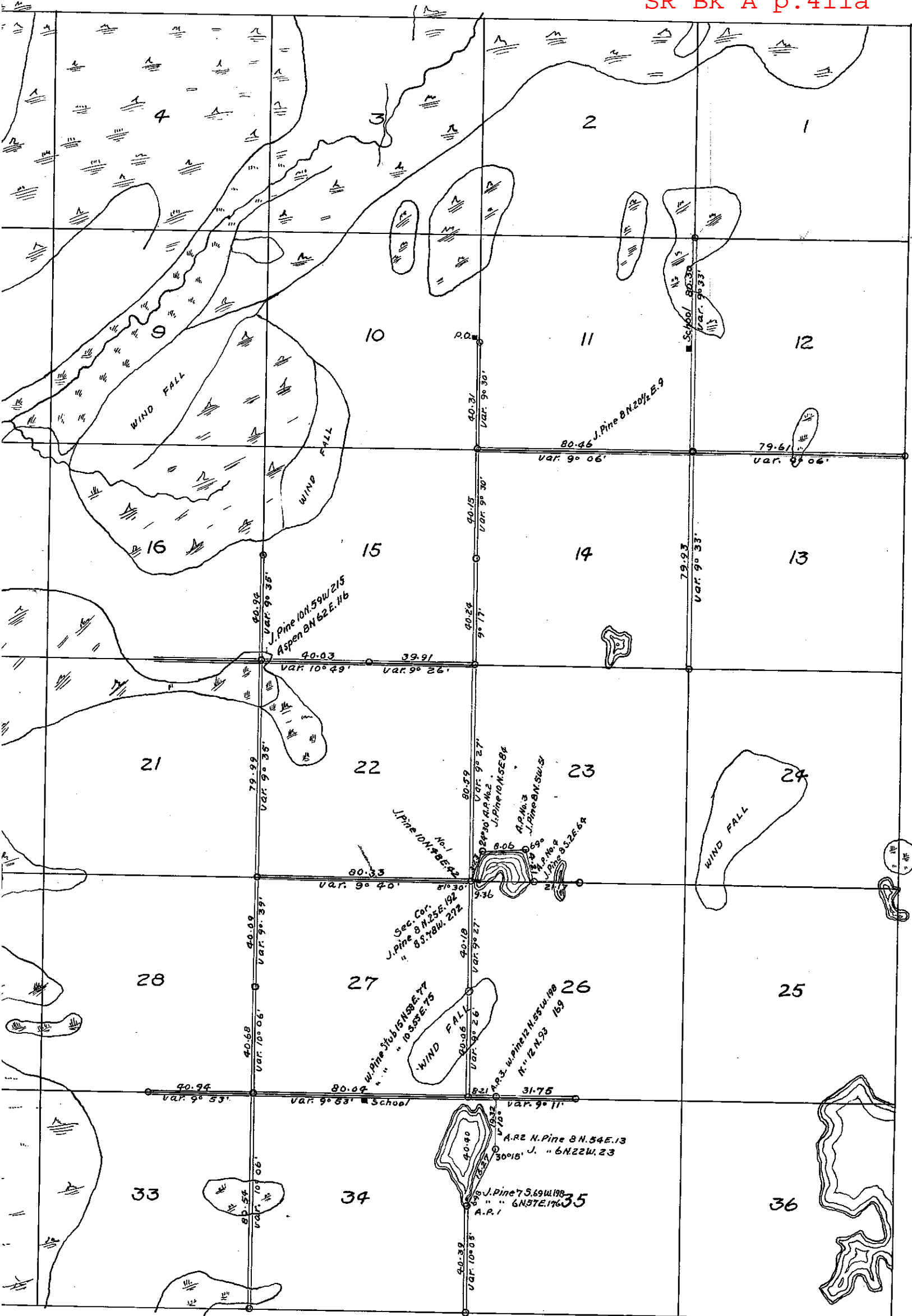
Signed John Usher
Deputy Surveyor of Cass County

NOTES OF

1	4-16	A
2	4-25	A
3	4-25	A
4	4-25	A
5	4-16	A
6	4-16	A

PLAT OF

1	4-16	A
2	4-15	A
3	4-15	A
4	4-15	A
5	4-16	A
6	4-16	A



Case County, is
 and Job Baker
 and in and
 to be filed with
 ary 2, 1915

I, Job Baker, do hereby certify that I have
 and in and
 and that the
 of the survey, as surveyed by me
 upon the premises.

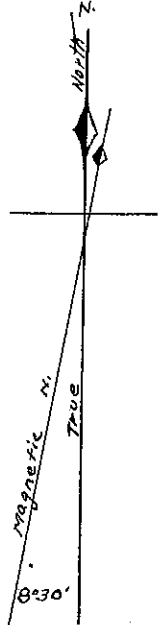
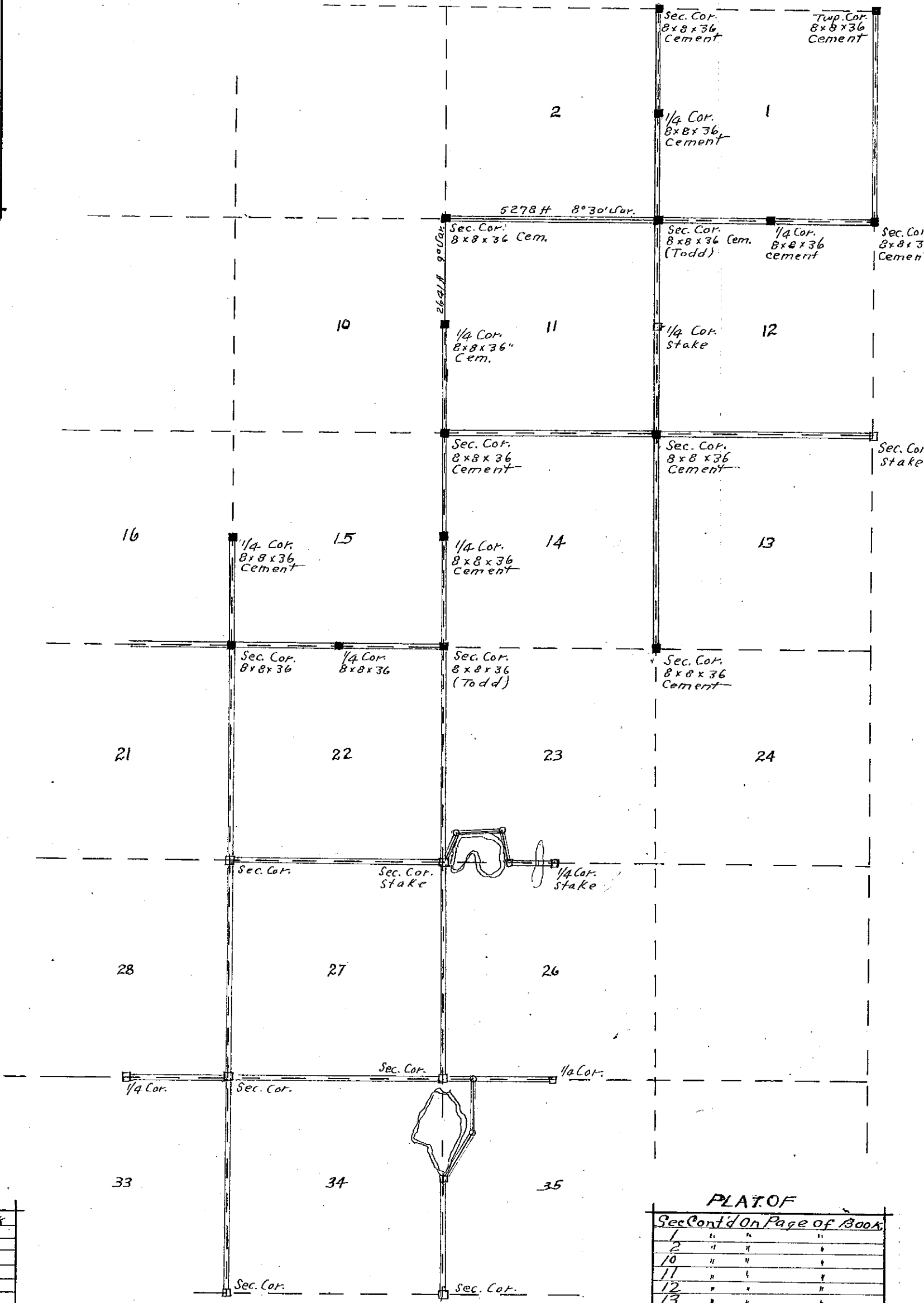
Job Baker
 County Surveyor of Case County

Sec	Cont'd From Page of This Book
1	" " 408 " " "
2	" " 408 " " "
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21	" " PLAT 116 " " "
21	" " NOTES 117 " " "
22	" " PLAT 104 " " "
22	" " NOTES 105 " " "
23	" " NOTES 106 " " "
23	" " PLAT 107 " " "
26	" " PLAT 108 " " "
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27	" " PLAT 111 " " "
28	" " PLAT 120 " " "
28	" " NOTES 121 " " "
34	" " PLAT 112 " " "
34	" " NOTES 113 " " "
35	" " NOTES 114 " " "
35	" " PLAT 115 " " "

TWP. 138 N. R. 32 W.
5TH P.M.

SURVEY RECORD NO. 1

SCALE: 2 IN. = 1 MILE.



ROADS
WOOD STAKES
8x8x36" CEMENT MONUMENTS

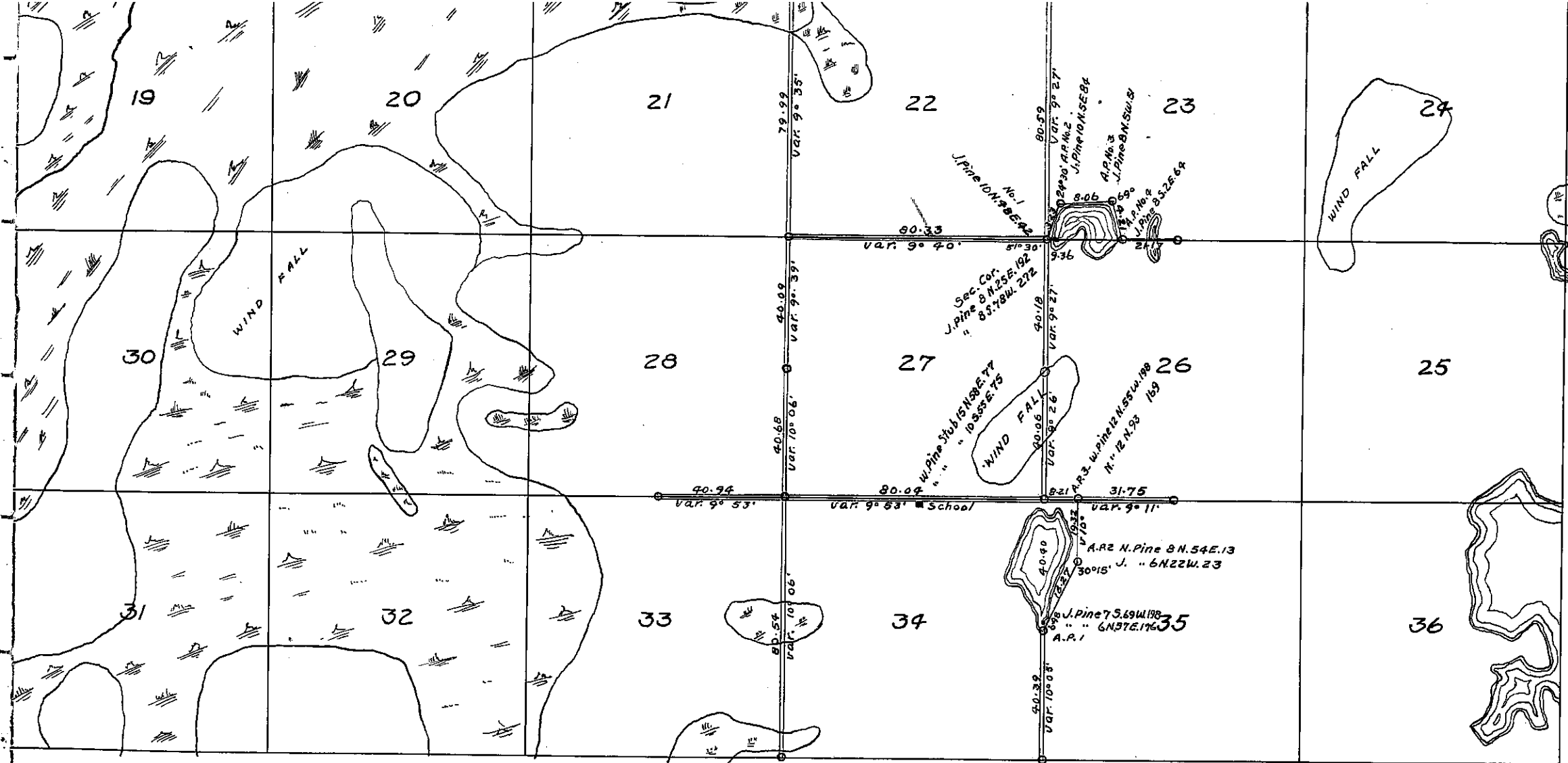
NOTES OF

Sec	Cont'd On Page of Book
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16	" " 418 " A
21	" " 425 " A
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27	" " 416 " A
28	" " 425 " A
33	" " 425 " A
34	" " 416 " A
35	" " 416 " A

Surveyed June 24th to 25th 1912
Recorded July 5th 1912
John W. Cato, Co. Surveyor
Cass Co. Minnesota

PLAT OF

Sec	Cont'd On Page of Book
1	" " " " "
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16	" " 419 " A
21	" " 427 " A
22	" " 415 " A
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27	" " 415 " A
28	" " 427 " A
33	" " 427 " A
34	" " 415 " A
35	" " 415 " A



I, J. L. Garfield, County Surveyor of Cass County, do hereby certify that I have duly deputized Mr. John Usher, surveyor, to survey the above roads, marked in red ink, and that I have plotted and caused the same to be filed with the Town Clerk, at the City of February 1903
 Signed J. L. Garfield

I, John Usher, a surveyor do hereby certify that I have surveyed the above roads, marked in red, and that the above is a true copy of the survey, as surveyed by me upon the grounds.
 Signed John Usher
 Deputy Surveyor of Cass County

SR Bk A p.411a

THIS PLAT COPIED, AND COPY FILED BY JOHN W. CURO, COUNTY SURVEYOR, CASS CO MINN, JUNE 27th 1912

The image shows a large grid table with approximately 10 columns and 10 rows. The grid is mostly empty, with only a few faint marks or lines visible. The grid is bounded by a solid line on the left and right sides, and a dashed line on the top and bottom. The grid is divided into several sections by vertical lines, with a prominent vertical line near the left edge and another near the right edge. The grid is mostly empty, with only a few faint marks or lines visible.

to tack heads driven in the stumps, @ 9° var.

We pull up the wood hub just set and put in its place an 8x8x36 inch cement post, set its full length in the ground for the true 1/4 Corner between Secs. 10 & 11, T. 138, R. 32.

Run north between Secs. 10 & 11, rough chain, compass line, 9° var. at 1400 ft. enter green tamarac swp. which bears east and west; at 2640 set stake, @ 2641 the corner to sections 2, 3, 10, 11 bears east 3.50 ft.

At the corner to sections 11, 12, 13, 14, we set an 8x8x36 inch cement post in the ground so that its top comes level with the grade of new road running north and road running west. We find a stake set for the true corner by Deputy County Surveyor Usher, and we pull up the stake in order to set our cement post.

At the corner to sections 10, 11, 14, 15 we find a stake set by John Usher, at the time he was Deputy County Surveyor of Cass Co., Minn. We pull up this stake and put in its place an 8x8x36 inch cement post for the true Section Corner.

At the 1/4 Corner between Sections 14 & 15 we find a wood stake set for the true 1/4 corner by John Usher at the time he was Deputy County Surveyor, of Cass Co. Minn. We pull up the stake and set in its place an 8x8x36 inch cement post for the true 1/4 corner.

At the Corner to sections 13, 14, 23, 24, Twp. 138, R. 32, Gov't. notes call for post and the following Bearing Trees:- Bl. Pine 9 S 83° E. 16 lks., N. Pine 8, N. 67° 30' W 20 lks., N. Pine 15 S. 53° W. 25 lks., N. Pine 10 N. 27° E. 37 lks. We find the stumps of all the trees, from which we set an 8x8x36 inch cement post, well into the ground for the true corner. At the corner to secs. 14, 15, 22, 23 we find an 8x8x36 inch. cement Section Corner set its full length in the ground for the true corner, by Harry S. Todd, Deputy County Surveyor, of Cass Co., Minn.

At the 1/4 Corner between Secs. 15 & 16, Government notes call for a post and the following bearing trees:- Spruce 5 S. 71° 30' W. 13 lks., W. Pine 26 S. 11° E. 33 lks., We find the White Pine stub standing, plainly marked, from which we set an 8x8x36 inch cement post well into the ground for the true 1/4 corner. The spruce called for in the notes is gone. All measurements taken from the face of the figures.

At the corner to sections 15, 16, 21, 22, Gov't. notes call for a post and the following Bearing Trees:- Aspen 4 N. 20° W. 7 lks., Bl. Pine 10, N. 80° 30' E. 172 lks., Bl. Pine 10, S 65° E. 200 lks. All of the old B.T.'s are gone, but we find a stake set for the true Section Corner by John Usher, at the time he was Deputy County Surveyor of Cass Co., Minn., and he has recorded the following bearing trees:- Jack Pine 10, N. 59° W. 215 lks., Aspen 8 N. 62° E. 116 lks. We find the stake and the bearing trees

plainly marked, and as all check out perfectly for course and distance; we pull up the wood stake, and put in its place an 8x8x36 inch cement post, in the road centre, for the true corner.

At the $\frac{1}{4}$ Corner between Sections 15 & 22, T. 138, R. 32, Gov't. notes call for post and the following bearing trees: -
 N. Pine 12 S. $68^{\circ}30'W$. 73 lks. (=48.18 ft.), N. Pine 14 N. $49^{\circ}E$. 562 lks. (=370.92 ft.)
 We find the S.W. tree standing green, and the tall stump of the N.E. tree, both plainly marked, from which we set the true $\frac{1}{4}$ corner by proportionate measurement from the face of the marks. From the $\frac{1}{4}$ corner East the Section line runs on $9^{\circ}15'$ var., and from the $\frac{1}{4}$ cor. West the half mile runs on $10^{\circ}15'$ var. So that I set my compass vernier at $9^{\circ}45'$ var. as a mean var.

We find the distance 22.10 ft. too long between the B. T.'s and we set the $\frac{1}{4}$ Cor. by proportionate measurement, at which point we place an 8x8x36 inch cement post its full length in the ground.

The above survey was made by John W. Curo, assisted by M. A. Kemp, S. Stainbrook, Harry Stainbrook, H. L. Larson, Harry Larson, Howard Melms, Christ Wachs, W. J. Aldridge. The instruments we use are a Gurley Compass and two new Engineers Transits, two 300 ft. Chicago steel tapes and a 50 ft. steel tape.

The survey was begun June 21, 1912, and Survey finished June 25th 1912.

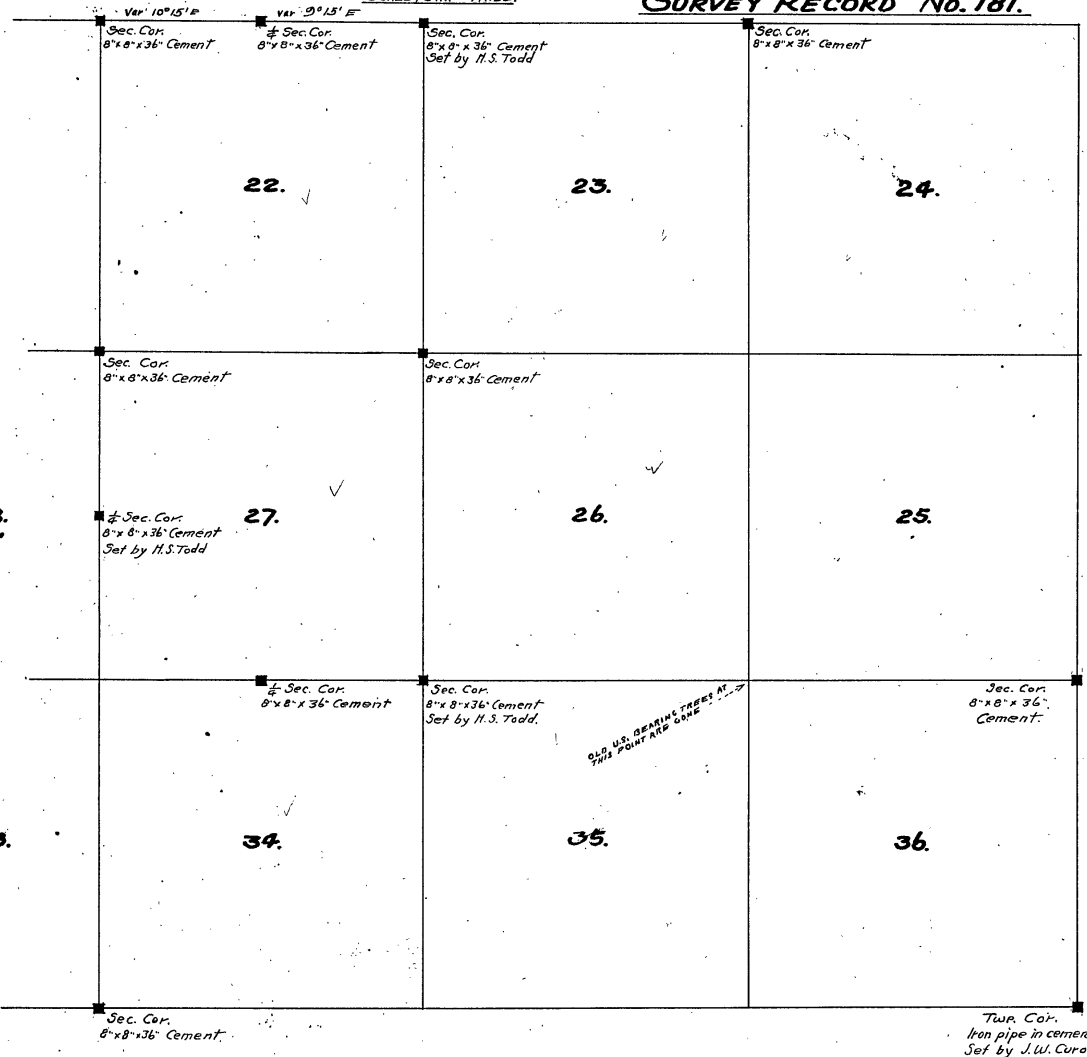
Recorded July 5th, 1912.
 John W. Curo Co. Surveyors and Co. Minn.

Sec. Cont'd From Page of this Block			
22	411		
23	411		
24	411		
25	330		
26	411		
27	411		
34	411		
35	411		
36	339		

PLAT
SECS. 22, 23, 24, 25, 26, 27, 34, 35, 36.
TWP. 138, R. 32, 5TH P.M.

SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 181.



Surveyed June 21st to 25th 1912.
Recorded July 5th 1912
John W. Cook Co. Surveyors, Cass & Minn.

Sec	Cont'd	Fr	Page	of this	Book
22	"	"	411	"	"
23	"	"	411	"	"
24	"	"	411	"	"
25	"	"	338	"	"
26	"	"	411	"	"
27	"	"	411	"	"
34	"	"	411	"	"
35	"	"	411	"	"
36	"	"	338	"	"

A

SURVEY RECORD No. 181.
SECS. 22, 23, 24, 25, 26, 27, 34, 35, 36, TWP. 138,
RGE. 32, 5TH. P.M.

Field notes of the survey of a part of Township No. 138, N range no. 32 W, 5th principal meridian, in sections 22, 23, 24, 25, 26, 27, 34, 35 & 36 as made by John W. Curs, County Surveyor of Cass County Minnesota, assisted by M. O. Kemp, Harry S. Tainbrook, Howard Melius, W. J. Aldridge and Jess Watson. We use a Gurley Compass and a new H & B transit & 300 foot steel tape and a 50 foot steel tape.

At the corner to sections 13, 14, 23, 24, government notes call for a post and the following bearing trees. B. Pine 9 S 83° E 16 links, N. Pine 8 N 67° 30' W 20 lks., N. Pine 15 S 53° W 25 lks., N. Pine 10 N 27° E 37 links. We find the stumps of all the trees from which we set an 8x8x36 inch cement post well into the ground for the true corner.

At the corner to sections 14, 15, 22, and 23, Township 138 R. 32, we find an 8x8x36 inch cement post set its full length in the ground, for the true section corner. This post was set by Harry S. Todd, Deputy County Surveyor of Cass Co. Minn.

At the $\frac{1}{4}$ corner between sections 15 and 22, Twp. 138, R. 32, government field notes call for a post and the following bearing trees. N. Pine 12 S 68° 30' W 73 lks. (= 48.18 feet) N. Pine 14 N 49° E 562 links (= 370.92 feet.)

We find the S.W. tree standing green, and the tall stump of the N.E. tree, both plainly marked from which we set the true corner by proportionate measurement from the face of the marks.

From this $\frac{1}{4}$ corner east section line runs on 9° 15' var. and from the $\frac{1}{4}$ west, the half mile runs on 10° 15' var. so that I set my compass varies at 9° 45' as a mean variation.

We find the distance 22.10 feet too long between the bearing trees and we set the $\frac{1}{4}$ corner by proportionate measurement, at which point we place an 8x8x36 inch cement post its full length in the ground.

At the corner to sections 15, 16, 21, and 22, Twp. 138, R. 32, government notes call for a post and the following bearing trees. Aspen 4, N 20° W 7 lks.

B. Pine 10 N 80° 30' E 172 lks. B. Pine 10 S 85° E 200 links. All of the old trees are gone but we find a stake set for the true section corner by John Usher, at the time he was deputy County Surveyor of Cass County Minnesota, and he has recorded the following bearing trees, Jack Pine 10 N 59° W 215 links.

Aspen 8 N 62° E 116 lks. We find the stake and the bearing trees plainly marked, and as all check out perfect for course and distance, we pull up the wood stake and put in its place an 8x8x36 inch cement post, set in the road center for the true corner.

At the corner to sections 22, 23, 26, 27, Twp. 138 R. 32, we find a stake set for the true corner by John Usher at the time he was county Surveyor of Cass Co. Minn. and the notes of his survey call for the following bearing trees. J. Pine 8 N 25° E 192 links. J. Pine 8 S 78° W 272 links. We find the N.E. tree standing plainly marked and the stump of the S.W. tree which check out perfect for course and distance. We take up the stake set by Usher and put in its place an 8x8x36 inch cement post for the true corner.

At the $\frac{1}{4}$ corner between sections 27 and 28, we find an 8x8x36 inch cement post set for the true $\frac{1}{4}$ corner by Harry S. Todd, Deputy County Surveyor of Cass Co. Minn.

At the $\frac{1}{4}$ corner between sections 27 and 34, we find a stake set for the true $\frac{1}{4}$ corner, by John Usher at the time he was Deputy County Surveyor of Cass Co. Minn., and his records call for the following bearing trees:

W. Pine stub $15 N 58^{\circ} E 77$ links. W. Pine stub $10 S 55^{\circ} E 75$ links. We find the N.E. stub standing plainly marked which checks out perfect for course and distance to the stake.

We pull up the stake and put in its place an $8 \times 8 \times 36$ inch cement post set its full length in the ground for the true $\frac{1}{4}$ corner. The S.E. stub called for in Usher's notes appears to be gone.

At the corner to sections 26, 27, 34, 35, we find an $8 \times 8 \times 36$ inch cement post set from old government bearing trees for the true corner by Harry S. Todd, Deputy County Surveyor of Cass County Minn.

At the S.W. corner to sec. 34, being the S.E. cor. of section 33, Township 138, R. 32, government notes call for a post and the following bearing trees:

N. Pine $18 S 28^{\circ} 30' E 52$ links. N. Pine $12 S 23^{\circ} W 87$ links. N. Pine $14 N 70^{\circ} 30' E 44$ lks.

W. Pine $7 N 42^{\circ} W 95$ lks. We find the old S.E. tree from which we set an $8 \times 8 \times 36$ inch cement post for the true corner, by bedding the post its full length in the ground. The N.E. N.W. and S.W. bearing trees have all been burned. At this point we use a W. & L. E. Gurley Surveyor's compass, and a 50 foot steel tape. All courses turned from the true meridian at $8^{\circ} 30'$ variation and measurements taken from the face of the old bearing trees.

At the S.E. corner of section 26, being the N.E. corner of section 36, Twp. 138, R. 32, government notes call for a post and the following bearing trees: Pine $8 N 85^{\circ} E 16$ lks. Pine $10 N 81^{\circ} W 43$ lks. Pine $6 S 63^{\circ} W 25$ lks.

We find the stumps of all three trees plainly marked from which we find an old stake previously established by John W. Curo, for the true corner. We pull up the stake and put in its place an $8 \times 8 \times 36$ inch cement post, set its full length in the ground, for the true section corner. At cor. to sec. 25 26 35 36 the old bearing trees are gone.

Survey begun June 21st and finished June 25, 1912.

At the corner to Sections 21, 22, 27, 28, we find the corner established by John Usher at the time he was Deputy County Surveyor of Cass Co., Minn., and we take up his corner and put in its place an $8 \times 8 \times 36$ inch cement post, set its full length in the ground for the true corner.

Survey begun June 21st and finished June 25, 1912.

Recorded July 5th 1912.

John W. Curo, Co. Surveyor Cass Co. Minn.

Sec'	Cont'd	From	Page	This	Book
16	"	"	125	"	"
17	"	"	126	"	"
18	"	"	126	"	"

SURVEY RECORD No. 182.
SECS. 4, 5, 6, 7, 8, 9, 16, 17, 18, TWP. 138 N.,
RGE. 32, 5TH P.M.

138-32

Field notes of the Survey of a part of Twp. No. 138 N., Range No. 32, W., 5th Principal Meridian, through Sections 4, 5, 6, 7, 8, 9, 16, 17, 18, as made by John W. Curo, County Surveyor of Cass Co., Minn., assisted by M. A. Kemp, Harry L. Larson, S. Stainbrook, Harry Stainbrook, Harry Larson, Richard Aldridge, Howard Melius, Christ Wachs and Wm. J. Aldridge.

We use two new transits and a Gurley Compass, two 300 ft. steel tapes and a 50 ft. steel tape. All lines run straight and all measurements taken with a plumb bob, and are correct.

We are setting cement corners at the Section corners established by John W. Curo, in the year 1908, and the notes of our old Survey made at that time read as follows:-

1/4 14
21

" Dec. 9th, 1907. We are using a new R. & E. Transit and Chicago steel tape. Beginning at School House at the 1/4 Cor. between Secs. 16 and 21, T. 138, R. 32, we found an old stake set by W. H. Hallett with one foot Pine B.T. standing S.W. the right course and distance. The balsam called for in the field notes is gone. We establish the true 1/4 corner by setting a wood stake, and run West on 10° Var. At 630 set flat stake, at 1320 tall hub in swamp, at 1962.40 set hub, at 2640 set hub. The Section Corner bears S. 37° W. 16 ft. In setting this corner, being the

16-17-20-21

Corner to Secs. 16, 17, 20, 21, T. 138, R. 32, we found all of the old Gov't. Bearing Trees but they were down, and by proportionate measurement we establish the corner and set a new post well into the swamp for the true corner. We use a 100 ft. tape; Jess Watson and Charles Lewis, axemen; Harry L. Larson and Curo chaining correct.

17-18-19-20

" Dec. 10th, 1907. Same crew with Elmer Tibbits assisting. At the Cor. to Secs. 17, 18, 19, 20, 138-32, we find all the old trees and roots which check out perfect for course and distance, except that the S.W. tree, which stands a few feet too far W. for course, at 90° var., measurements taken from face of figures on trees. We drive a stake for the corner over which we place the transit, after which a flag placed at the corner to Secs. 16, 17, 20, 21, across the big open meadow and swamp, bears East at 8° 10' variation. Transit the telescope and run West. At 1320 hub, at 2640 hub, at 2740 cross creek, at 3769 set hub 100 ft. West of edge of river meadow, at 3960 stake on solid ground, at 4320 hub, at 4500 enter big open bog, at 5280 set hub for temporary

16-17-20-21

SW Cor 18

S.W. Cor. of Sec. 18. True Cor. stands S. 65° 26' W. 172.80 ft., at which point we find the old stake set for the true Sec. Cor. by the original Gov't. Surveyors, and we find all of the old bearing trees, which are down but check out for course and distance from the stake at 8° variation.

NW Cor 19

SW Cor 18
Elev at 90 53'

" Dec. 11th, 1907. Place a tall flag at N.W. Cor. Sec. 19, T. 138, R. 32, and run North on 9° 53' Var. at 1320 pin in swamp, at 2640 set stake, true 1/4 Cor. on W. side of Sec. 18 stands about 3 ft. West.

" We correct the line between Secs. 18 & 19 and set stakes on true Section line.

" Dec. 13th, 1907. Watson, Lewis and Son and Curo begin at Usher's

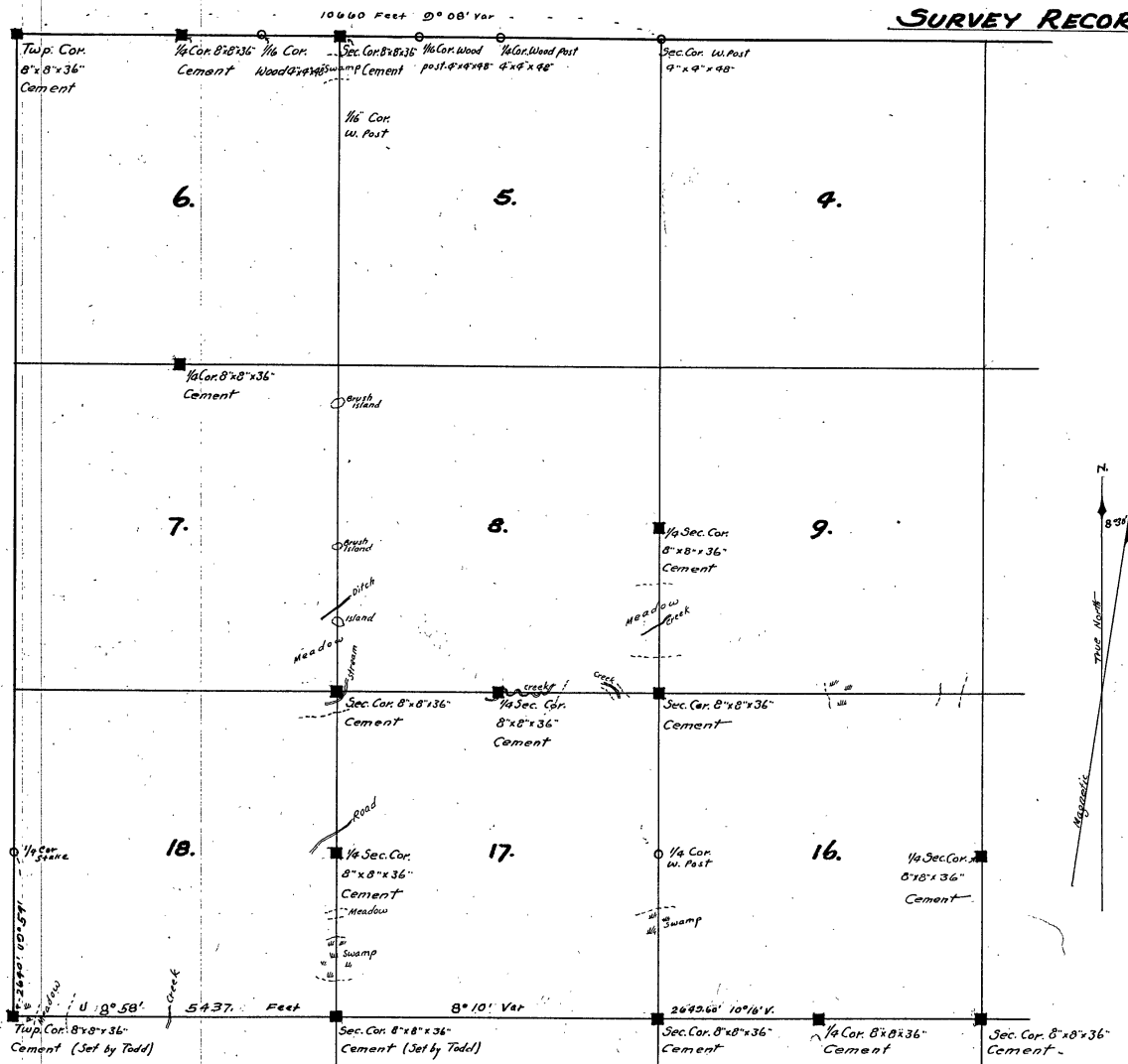
A

Sec. Cont'd From Page of This Book			
16	"	"	411
17	"	"	124
18	"	"	127

PLAT.
SECS. 4, 5, 6, 7, 8, 9, 16, 17, 18,
TWP. 13N., R. 32E., 5TH PM.

SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 182.



19

20

Surveyed Dec 9th 1917 to June 23rd 1912
Recorded July 5th 1912
John W. Calks, C. Surveyor Cass Co. Minn.

SURVEY RECORD No. 182.

22-23¹¹ corner to Secs. 22, 23, 26, 27, 138-32 and run a compass line East. At
 26-27¹⁰ 2640 we find no bearing trees or stake, at 5280 we find no stake
 or bearing trees; at 7920 we found no $\frac{1}{4}$ corner or bearing trees
 and at 10560 we find no corner on the Range line.

"Sec. 14th, 1907. Chris. Wacks, Geo. King, Carl King, T. C. Dick,
 20-21¹⁰ Ches. Wacks. Begin at corner to Secs. 20, 21, 28, 29, T. 138, R. 32. Run
 23-24¹⁰ West on 8° var. Transit line. At 1320 stake, at 2640 set stake, we
 find no $\frac{1}{4}$ corner. At 3960 stake, at 5280 set stake but could find
 19-20¹⁰ no bearing trees to the corner of Secs. 19, 20, 29, 30, though we
 23-30¹⁰ all hunted well."

May. 28th, 1908. Bert Melms, H. L. Larson and Curo begin at
 10-17¹⁰ Cor. to Secs. 16, 17, 20, 21, T. 138, R. 32, and run North at 9° var. At 1750 ft.
 20-21¹⁰ leave swamp, enter open prairie, at 2640 find no $\frac{1}{4}$ cor., at 5280 find
 8-9¹⁰ no bearing trees to the corner of Secs. 8, 9, 16, 17; continue North. At
 10-17¹⁰ 5800 enter meadow, at 6380 cross creek 10 ft. wide, runs N. E., at 7100
 14¹⁰ leave meadow, at 7920 set temporary $\frac{1}{4}$ corner. The true $\frac{1}{4}$ cor.
 24¹⁰ between Secs. 8 and 9 bears N. 46° 54' W., 40.20 ft. We set this corner
from one old B. T. standing N. E. at 9° variation. Chainage and course
check out to the roots of the other old B. T. Correcting South-
 at hub 5280 we run N. 46° 54' W. 26.80 ft. and set hub "A" for temporary
 8-9¹⁰ corner to Secs. 8, 9, 16, 17, T. 138, R. 32.

May. 29th, 1908. We set the $\frac{1}{4}$ Cor. between Secs. 8 and 17, T. 138-32,
 14¹⁰ from one old white pine bearing tree standing S. 7° 30' W. 278 lks.
 8-17¹⁰ measured to face of tree. at 9° var. We find old stake and set new stake
 for true $\frac{1}{4}$ Cor. from which we run East. at 140 ft. creek 12 ft. wide,
 at 205 ft. centre of 12 ft. creek, at 270 centre of 12 ft. creek, at 455 centre of 12 ft. creek,
 at 500 touch bend of north edge of creek, at 650 centre of creek, at 720
 centre of creek. Between 650 and 720 follow north side of creek. At 1000
 leave soft meadow, at 1275 leave river bottom, at 1365 cross old road
 survey S. W. around river meadow. From 1320 East to 1950 follow
 open sand ridge, at 2000 enter meadow, at 2080 cross creek, at
 2130 leave meadow, enter sand ridge. At 2641.32 hub for temp-
 orary cor. on C. & W. line.

Mar. 30th, 1908. Continue east. at 5285.28 (being 2641.32 added to
 14¹⁰ 2643.96) set temporary $\frac{1}{4}$ corner between Secs. 9 and 16. Corner is lost
 9-16¹⁰ and we continue East. at 5300 enter open tamarac swamp, at 7235
 enter low, solid ground, at 7560 enter open tam. swamp, at 7929.24 set
 7-10¹⁰ temporary corner to Secs. 9, 10, 15, 16 in swamp. True corner stands N. 3° 38' E.
 15-16¹⁰ 297.70 ft. We set this corner from the two South bearing trees. Coming
 back to hub 5285.28, temporary $\frac{1}{4}$ corner, we run N. 3° 38' 48.85 ft. and set
 14¹⁰ a rough $\frac{1}{4}$ cor. between Secs. 9 and 16 within a foot of where it will
 9-16¹⁰ finally be located. This is because in starting East from the $\frac{1}{4}$
 between Secs. 8 & 17 I run my east random line thro' hub "A" at the
 temporary corner to Secs. 8, 9, 16 and 17.

Mar. 31, 1908. Correcting back. From hub 2641.32 (I run N. 3° 38' E.
 99.17 ft. and drive hub for temporary Sec. Cor. "B." Then at hub "B" I
 turn a right angle to the true C. & W. line and run South, intersecting
 8-9¹⁰ the East and West random line 10 ft. East of hub "A", at which point
 10-17¹⁰ I drive a stake for the true corner to Secs. 8, 9, 16, 17, T. 138, R. 32, with
 new bearing trees as follows:— N. Pine 10 S. 70° 12' E. 87.55 ft., J. Pine 10 N. 31° 43' W.

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9-9
16-17

57 feet. At hub 5280 N. the true corner to Secs. 8, 9, 16, 17, 138-32 bears N. 62° 55' W. 40.05 ft. Correcting South, hub 3960 goes N. 62° 55' W. 30 ft., hub 2640 goes N. 62° 55' W. 20 ft., with new bearings as follows: - Stump 12 S. 67° 40' W. 151.37 feet, oak 8 N 84° 25' E. 85.85 ft., at 9° variation. Hub 1320 we we set N. 62° 55' W, 10 feet.

1/4
5-6

We set the 1/4 corner between Secs. 5 & 6, T. 138, R. 32, from one old W. Pine B. T. standing N. E. 166.98 feet to a spike driven into tree, var. 90. We drive a 4x4x40 inch wood post for the true 1/4 corner, after which I measure S. W. 11.88 ft. to the centre of an old root which may have been the other B. T.

1/4
6-7

At the 1/4 Cor. between Secs. 6 & 7, T. 138, R. 32, I find both old B. T.'s plainly marked but the distance between them by way of courses is 9.57 feet too long so I proportion the distance and set a 4x4x36 inch stake for the true 1/4 corner.

1/4 North
Side 6

April 1st, 1908. Larson, Melno, Clark and Curo. At the 1/4 Cor. on N. Side of Sec. 6, T. 138, R. 32, I find two Jack pine trees, 6 inches thick, well scrubbed, but they were not made by the Gov't. Surveyors, as the marks appear to have been made only a few years ago, and the iron marks were made by a larger marking iron than those used by the Gov't. surveyors, as the marks and rings here are much larger than the figures on the old Gov't. B. T.'s at the N. W. Cor. of this Twp. As Mr. Ben Van de Bogart says these trees at the 1/4 were marked by the Hubbard Co. Surveyor we pass them up and go half a mile west to the N. W. Cor. of Twp. 138, R. 32, with Fred A. Scott and Ben Van de Bogart going with us. We find the old 12 inch Jack pine called for in the notes, standing S. E. from which we set a 4x4x40 inch wood post for the true Twp. Cor. at 9° var., and the roots of some of the other old bearing trees check out for course and measurement.

Twp Cor
NW 138-32

From the N. W. Cor. of Twp. 138, R. 32, we run East on 9° Var. at 1395.90 set pin for temporary 1/16 corner, @ 2715.90 set hub for temporary 1/4 cor. on N. side of Sec. 6. all old corner marks are gone and we continue transit line East, chaining perfectly. at 4035.90 set pin for temporary 1/16 cor., @ 5355.90 set hub for temporary corner to Secs. 5 & 6. all old gov't. bearings or stakes are gone. We drive a tack in poplar log 73.05 feet East.

Twp Cor
Run 15 mi

1/4
N Side 6

April 5th, 1908. Continue East from hub 5355.90. at 6675.90 temporary 1/16 cor., @ 2640 set hub 7995.90 temp. 1/4 cor. on N. side of Sec. 5, @ 5280 set hub 10635.90, true N. W. Corner of Sec. 4, bears N. 43° 57' E. 34.80 ft. We set the N. W. Cor. of Sec. 4, T. 138, R. 32, from one old Elm bearing tree standing S. W. @ 9° Variation, and drove a new stake 4x4x48 inch, set well into the ground for the true corner.

5-6
Twp 138

N Side 5
171

4-5

April 6th, 1908. Correcting back, @ hub 3915.90 we run

SURVEY RECORD No. 182

N. $43^{\circ}57' E$. 30.48 ft. to tree $1/16$ Cor. where we drive a $4 \times 4 \times 48$ inch post with bearings as follows: - Willow 1" S.W. 27.55 ft., Pop. $1/4$ N.W. 414.81 ft., no courses taken to tack heads.

At 7995.90 we run N. $43^{\circ}57' E$. 26.16 ft. where we place a $4 \times 4 \times 48$ inch post for the true $1/4$ Cor. on the North side of Sec. 5, 138-32, with new bearings as follows: - Alder $1/2$ bears S.W. 10.95 feet, birch $1/2$ N.W. 20.95 to tack heads, courses not taken. At 6675.90 we run N. $43^{\circ}57' E$. 21.84 feet, with bearing trees as follows: N. Pine 14, N.W. 14.38 feet, J. Pine 10, S.E. 17.30 feet to tack heads, no courses taken. This is the $1/16$ corner.

At 5355.90 we run North $43^{\circ}57' E$. 17.52 feet and set stake for true N.C. Cor. Sec. 6 and N.W. Cor. Sec. 5, with new bearings as follows: - Tam. fence post 6, N. $20^{\circ}8' W$. 12.72 feet, Pop. stump 6 S. $44^{\circ}34' E$. 50.29 ft.

From the true N.C. Cor. Sec. 6, being N.W. Cor. Sec. 5, T. 138, R. 32, we run South on 9° Var.; at 33 ft. leave Swamp, @ 300 enter open swamp, @ 700 leave swamp, @ 1353.00 set hub for temporary $1/16$ corner, @ 2673 temporary $1/4$ corner; the true $1/4$ corner between Secs. 5 & 6 bears N. $63^{\circ}57' E$. 24.54 ft. Correcting back - hub 1353 goes N. $63^{\circ}57' E$. 12.42 ft. with new bearings as follows: J. Pine stump N.E. 37.19 ft., J. Pine stump S.W. 12.76 ft. to tack heads, no courses taken.

April 7th, 1908. Melms, Larson, Clark and Curo correct the north line of Sec. 6. Hub 4035.9 goes N. $43^{\circ}57' E$. hub 2715.9 goes N. $43^{\circ}57' E$ 8.89 ft. where we drive a solid hub for the true $1/4$ corner and mark up two small bearing trees.

Beginning at the $1/4$ corner on the South side of Sec. 6, 138-32, I run a transit line a mile north to the $1/4$ corner on the north side and set a line of hubs and stakes to mark road centre.

Copy of old notes above?

From June 21st to June 25th 1912 we pull up the wood stakes and put $8 \times 8 \times 36$ inch cement posts at section and $1/4$ corners in Twp. 138, Rge. 32, at the following places: - the N.W. cor Sec 5; the $1/4$ Cor. on N. side Sec. 6; the N.W. Cor. of Sec. 6 (being the Twp. Cor.); the $1/4$ Cor. between Secs. 6 and 7; the $1/4$ Cor. between Secs. 8 and 9; the Cor. to Secs. 8, 9, 16, 17; the $1/4$ Cor. between Secs. 8 & 17; the Cor. to Secs. 16, 17, 20 and 21; the $1/4$ Cor. between Secs. 16 and 21;

June 21st, 1912. At the $1/4$ Cor. between Secs. 17, and 18, T. 138, Rge. 32, Olymit. notes call for a post and the following B. T.'s: - N. Pine 8 N. $27^{\circ} W$ 93 lks. (= 61.38 feet), N. Pine 18 S. $78^{\circ}30' E$. 50 lks. (= 33.00 ft.) We find the tall stump of the S.E. tree standing plainly marked, and the short stump of the N.W. tree, from which we set the $1/4$ Cor. by flat measurement from the face of the tree; after which the N.W. stump bears N. $26^{\circ}5' W$. 61.38 ft., and the S.E. stump bears S. $81^{\circ}32' E$ 33.00 ft. to tack heads in stumps. We set a hub and tack for the true $1/4$ Cor. with new bearing as follows: - J. Pine 8 N. $35^{\circ}47' E$. 49.56 ft.

SURVEY RECORD No. 182.

Pine S. 80° 45' W. 45.83 ft. @ 9° Var., to nail heads in new iron
 center marks. Run north on 9° Var. At 320 wagon road bears
 N. E. & S. W., @ 900 set hub, @ 1678.60 ft. set tack in log, @ 2250 ft.
 enter open meadow, N. E. & W., @ 2640 set hub in meadow,
 @ 2661.30 set pin in meadow on East side of stream which
 runs S. W. The true Cor. to Secs. 7, 8, 17, 18, 138-32, bears West
 42.20 ft. and sets on West side of stream. 7-5-17-18

At the corner to Secs. 7, 8, 17, 18, T. 138-32, Gov't. notes call
 for a post and the following bearing trees: - 7-5-17-18-138-32
 Aspen 10 S. 3° E. 660 lks (= 435.60 ft.), W. Pine 24 N. 88° 30' E 1110 lks.
 (= 732.60 feet.) We find the white pine standing green with
 part of the figures burned off, and we find the Aspen
 plainly marked, but broken off near the roots, from
 which we set a hub and tack for the true corner. Then we
 pull up the hub and set in its place an 8x8x36 inch
 cement post, set its full length in the meadow for
 the true corner. This corner sets about 20 ft West and
 about 60 ft North of a 20 ft. Stream running S. W.,
 sand bottom. 7-5-17-18

Beginning at the corner to Sections 7, 8, 17, 18, T. 138, R. 32, just
 established, we run north across big meadow on 9° Var. At
 1050 ft. enter small brush island about one acre in extent and about
 2 ft. above meadow level, @ 1295 enter 4 ft. ditch which bears
 N. E. and S. W., @ 1320 set rough 1/16 stake for Lawrence putmudson,
 where Curd takes a compass shot East on 9° 50' Var. to show
 "Ole-on-the-Island" about where his lines might run. Ole
 borrows one of our 300 ft. tapes and measures 1320 ft. East.
 This is not a true corner nor a true line, and we have
 impressed these facts strongly on Ole's mind. We continue
 north. At 2200 enter brush island one acre in extent and
 about 2 ft. above meadow, @ 2242 hub on island, @
 2640 a stake setting in the big meadow bears East about
 25 ft., @ 4600 enter small island.

June 22nd, 1912. We continue line north, rough chain.
 At about 5280 leave brush island, enter meadow where a
 stake set by some surveyor sets about two rods East. We
 find no bearing trees at this point, being the corner to Secs.
 5, 6, 7, 8, 138-32, and at 1/4 between Secs. 7 & 8 the old trees are gone.
 We quit this line for the present.

7-5-17-18 From the cement corner to sections 7, 8, 17, 18, T. 138, R. 32, we
 correct our transit line South as follows: - @ hub 1678.60 we run
 west 26.62 ft where we drive a good solid hub for the true line and
 put up a tall stake marked "road centre" and "Section line". At
 hub 900 we run west 14.27 ft. where we drive a good solid hub for
 the true Sec. line and put up a tall stake marked "road centre"
 and "true Section line".

Beginning at the cement 1/4 Cor. between Secs. 17 & 18, 138-32,
 we run south. At 522.35 set hub, @ 840 enter meadow, @ 915 leave
 meadow, @ 1053.30 hub, @ 1350 enter swamp, @ 2100 leave swamp,
 at 2123.90 hub, @ 2653.20 hub. The Sec. Cor. bears East 17.60 feet.
 This an 8x8x36 inch cement post set by Harry S. Todd for the

SURVEY RECORD No. 182.

corner to Sections 17, 18, 19, 20, Twp. 138, Rge. 32, at a point previously established by John W. Curo, from which I take bearings as follows: - Old J. Pine Stump 16 S. $49^{\circ} 11'$ E. 59.20 ft.
 J. Pine Stump 18 N. $34^{\circ} 50'$ W. 35.80 ft. I mark up a new B. T., being
 J. P. 10 N. $54^{\circ} 40'$ W. 48.10 ft. We correct line back N. as follows: -
 Hub 2653.20 goes East 17.60 ft., hub 2123.90 goes east 14.10 ft., hub
 1053.30 goes east 6.90 ft., hub 522.35 goes East 3.47 ft., at which
 points we drive good solid hubs and tall stakes to mark
 true section line.

At the $\frac{1}{4}$ Cor. between Secs. 17 & 18 we pull up the wood
 hub and put in its place an $8 \times 8 \times 36$ inch cement post for the
 true $\frac{1}{4}$ corner.

June 23rd, 1912. Curo, Aldridge, H. Melmo, L. Dougherty
 go to the Cor. to Secs. 15, 16, 21, 22, Twp. 138, R. 32, where James
 M. Canfield and John Usher have established a post for the true
 corner with new bearings as follows: - J. Pine 10 N. 59° W 215
 lks., Aspen 8 N. 62° E 116 lks. We find the stake from which
 both old B. T.'s check out perfect and we pull up the stake
 and put in its place an $8 \times 8 \times 36$ inch cement post for the
 true corner.

At the $\frac{1}{4}$ corner between Secs. 15 & 16 we establish
 the true $\frac{1}{4}$ corner from one old pine B. T. stump plainly marked
 from which we set an $8 \times 8 \times 36$ inch cement post for the true $\frac{1}{4}$ corner.

Recorded July 5th 1912.

John W. Curo, Co. Surveyor, Cass Co. Minnesota

Sec	Cont'd From Page	This Book
19	"	120
20	"	118
21	"	411
28	"	411
29	"	122
33	"	411

SURVEY RECORD No. 183.
SECS. NOS. 19, 20, 21, 28, 29, 30 & 33.
TWP. No. 138, RGE. No. 32, 5TH P.M.

Field notes of the survey of a part of Township No. 138 N., Rge. 32 W., 5th Princ. Merid., through Secs. 19, 20, 21, 28, 29, 30 and 33, as made by John W. Curo, County Surveyor of Cass Co., Minn., assisted by M. A. Kemp, Civil Engineer.

We are setting 8x8x36 inch cement section and quarter section corners at places previously established by John W. Curo in the year 1908 and the notes of his old surveys, made at the time read as follows:- "Dec. 9th, 1907. We are using a new K. & C. transit and Chicago steel tape. Beginning at school house at 1/4 corner between Secs. 16 and 21, T. 138, R. 32, we find an old stake set by W. H. Hallett, with one jack Pine bearing tree standing S.W. the right course and distance. The balsam called for in the field notes is gone. We establish the true Cor. by setting a wood stake and run West on 10° Var. At 630 set flat stake, @ 1320 tall hub in swamp, @ 1962.40 set hub, @ 2640 set hub. The Sec. Cor. bears South 37° West 16ft.

"In setting this corner, being Corner to Secs. 16, 17, 20, 21, Twp. 138, R. 32, we find all of the old Govt. B.T.'s but they are down, and by proportionate measurement we establish the true corner by setting a new post well into the swamp. We use a 100 ft. tape. Jess Watson, Chas. Lewis axmen; H. L. Larson and Curo chaining correctly.

"Dec. 10th 1907. Same crew working, with Cline Tibbits assisting. At the corner to Secs. 17, 18, 19, 20, T. 138, R. 32, we find all of the old trees and roots which check out perfect for course and distance, except that the S.W. tree stands a little too far West for true course, @ 9° Var. Measurements taken to face of figures on trees. We drive a stake for corner over which we place the transit, after which a flag placed at the corner to Secs. 16, 17, 20, 21 across the big open meadow bears East on 8° 10' Var. Transit the telescope and run West. At 1320 ft. hub, @ 2640 set hub, @ 2740 cross creek, @ 3769.50 set hub 100 ft. west of edge of meadow, @ 3960 stake on solid ground, @ 4320 set hub, @ 4500 enter big open bog, @ 5280 set hub for temporary S.W. Cor. of Sec. 18. True corner stands S. 65° 26' W. 172.80 ft. at which point we find the old stake set for the true N.W. Cor. of Sec. 19, by the old, original Government Surveyors. We find all of the old B.T.'s which are down but check out for course and measurement, @ 8° Var.

"Dec. 11th 1907. We correct the line between Secs. 18 and 19 and set stakes on true Sec. line.

"Dec. 14th, 1907. Chas. Weeks, Geo. King, Carl King, T. C. Slick and Chas. Weeks. Beginning at corner to Secs. 20, 21, 28, 29, 138-32, we run west on 8° var., transit line. At 1320 set stake, @ 2640 set stake. We find no 1/4 Cor. at 3960 set stake, @ 5280 set stake but could find no bearing trees to the corner of Secs. 19, 20, 29, 30, though we all hunted well."

June 22nd 1912. At the corner to Secs. 17, 18, 19, 20, T. 138, R. 32, we find an 8x8x36 inch cement post set by Harry S. Todd for the true corner, over which we place the transit and take bearings as follows:-

SURVEY RECORD No. 183.

Old Jack pine 16 S. $49^{\circ}11'$ E. 59.20 ft., J. Pine stump 18, N. $34^{\circ}50'$ W. 35.80 ft. I mark up new Bearing tree, bearing J. Pine 10 N. $54^{\circ}40'$ W. 48.10 ft., These bearings taken by Kemp, Harry Stainbrook, S. Stainbrook and Chris. Wacks. Curo, Wacks, W. J. Aldridge and Howard Melms go to the $\frac{1}{4}$ Cor. between Secs. 19 and 20, T. 138, R. 32, where we place an 8 x 8 x 36 inch cement post well into the ground for the true $\frac{1}{4}$ Cor., set from one of these inch white pine bearing tree which stands N. E. plainly marked. The other B.T. is there, but down and we do not use it.

At the corner to Sections 16, 17, 20, 21, T. 138 R. 32, we pull up the wood hub and put in its place an 8 x 8 x 36 inch cement post for the true corner and at the $\frac{1}{4}$ Cor. between Secs. 16 and 21 we pull up the wood hub and put in its place an 8 x 8 x 36 inch cement post for the true $\frac{1}{4}$ corner.

June 23rd 1912. J. W. Curo, W. J. Aldridge, Howard Melms and Lawrence Slougherty go to the Cor. of Secs 15, 16, 21, 22, T. 138 R. 32 where James M. Canfield and John Asher have established a post for the true corner with new bearings as follows: - Jack Pine 10, N. $57^{\circ}00'$ 215 lks., Aspen 8 N. $62^{\circ}00'$ 116 lks. We find the stake from which both old B.T.'s check out perfect. We pull up the stake and put in its place an 8 x 8 x 36 inch cement post for the true Cor.

At the Cor. to Secs. 20, 21, 28, 29, we find an 8 x 8 x 36 inch cement post set by Harry S. Todd for the true corner.

At the S. E. Corner of Sec. 33, T. 138 R. 32 Govt. notes call for a post and the following B. T.'s: - N. Pine 18 E. $28^{\circ}30'$ C. 52 lks., N. Pine 12 S. $23^{\circ}00'$ 87 lks., N. Pine 14 N. $7^{\circ}30'$ E. 44 lks., W. Pine 7 N. $42^{\circ}00'$ W. 95 lks. We find the old S. E. tree from which we set an 8 x 8 x 36 inch cement post its full length in the ground for the true Cor. The N. E., N. W. & S. W. old trees have been burned.

June 24th, 1912. Curo, Jess Watson, Harry Stainbrook go to the $\frac{1}{4}$ Cor. between Secs. 28 and 33 and set an 8 x 8 x 36 inch cement post its full length in the ground for the true $\frac{1}{4}$ Cor., set from the stumps of both old Govt. B. T.'s which are still there, measurements taken from face of figures on the stumps.

At the $\frac{1}{4}$ Cor. between Secs. 27 and 28 we find an 8 x 8 x 36 inch cement post set by Harry S. Todd for the true $\frac{1}{4}$ Cor.

At the Cor. to Secs. 21, 22, 27, 28, T. 138 R. 32 we set an 8 x 8 x 36 inch cement post for the true corner at a point previously established by John Asher at the time he was Deputy County Surveyor of Cass Co. Minn.

Survey made June 21st 1912 to June 25th 1912 by John W. Curo, assisted by M. A. Kemp, Harry Stainbrook, S. Stainbrook, H. L. Larson, Harry Larson, Howard Melms, Chris Wacks, W. J. Aldridge, Jess Watson, and L. Slougherty.

We use two new transits and two 300 foot steel tapes, one Gurley compass and a 500 ft. steel tape. All courses and measurements taken correct.

Recorded July 5th 1912.

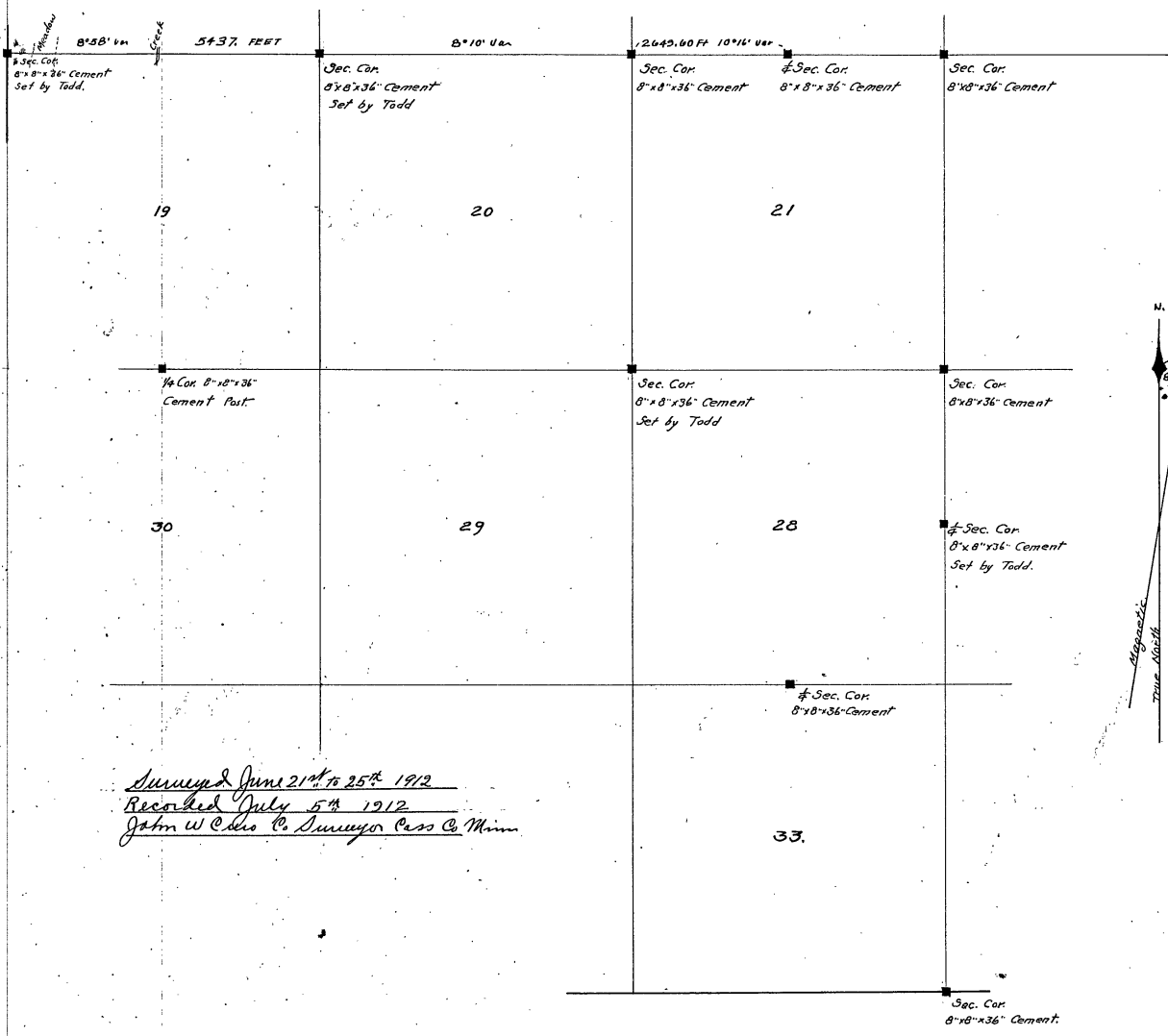
John W. Curo. Co. Surveyor Cass Co. Minn.

Section	From	Page of This Book
19	" "	198
20	" "	199
21	" "	200
28	" "	211
29	" "	223
33	" "	411

PLAT
SECS. 19, 20, 21, 28, 29, 30 & 33
TWP. No. 13B, RGE. 32.

SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 183.



Surveyed June 21st to 25th 1912
Recorded July 5th 1912
John W. Chas. Co. Surveyors, Cass & Minn.

Sec Cont'd From Page of this Book			
10	"	"	312
15	"	"	312
16	"	"	312
22	"	"	312

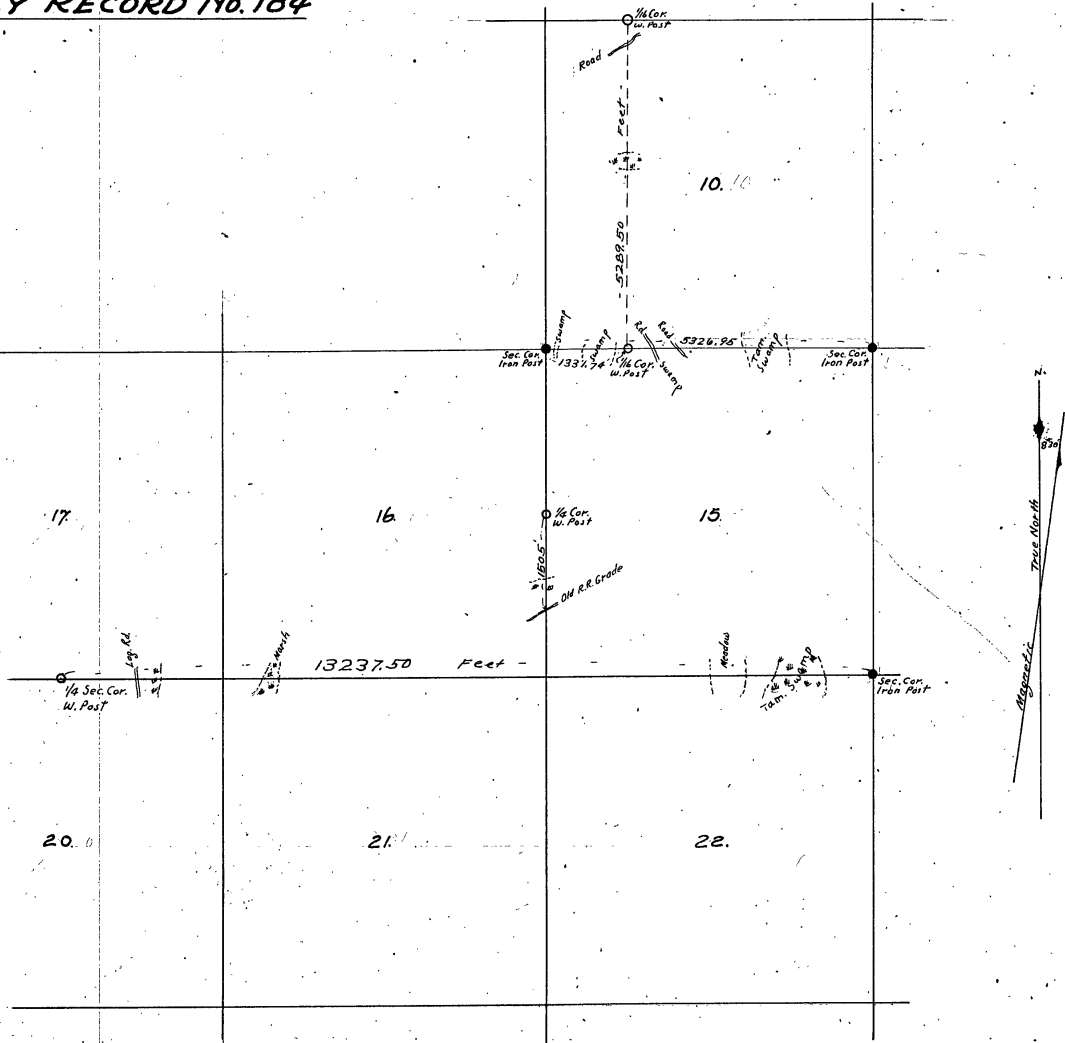
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PLAT
SECS. 10, 15, 16, 17, 20, 21 & 22, T. 140,
RGE. 27, 5TH P.M.

SCALE: 3 IN. = 1 MILE

SURVEY RECORD No. 184

F.B. - S.A.



Surveyed Nov 14th 1911 to Nov 23rd 1911
Recorded August 1st 1912
John W. Cress, Co. Surveyor, Cass Co. Mo.

PLAT			
Sec Cont'd To Page of Book			
10	"	"	"
15	"	"	"
16	"	"	"
17	"	504	A
20	"	504	A
21	"	"	"
22	"	"	"

Sec	Cont'd	From	Page	of This	Book
10	"	"	311	"	"
15	"	"	311	"	"
16	"	"	311	"	"
22	"	"	311	"	"

SECS. Nos. 10, 15, 16, 17, 20, 21 & 22.
TWP. 140. RGE. 27, 5TH P.M.

A 429

SURVEY RECORD No. 189.

Field notes of the survey of a part of Township no 140 N, Range no 27 W, 5th principal meridian, thro secs. 10, 15, 16, 17, 20, 21, 22, as made by Harry S. Todd, Deputy County Surveyor of Cass County Minnesota, examined, approved and recorded by John W. Curo, County Surveyor of Cass County Minn.

The instruments used in this survey is a R. & E. engineers' transit and a 300 foot Chicago steel tape. transit run to double center hubs, and measurements made under the plumb bob.

Nov. 14th 1911 Harry S. Todd, transitman, Mark Smell, Wm Mc Vay apmer and chainmen; Beginning at the $\frac{1}{4}$ corner west of the $\frac{1}{4}$ corner on the north side of section 10, Twp. 140 N, Range 27 W, we run south on assumed meridian at $11^{\circ} 30'$ magnetic variation.

At 206.85 feet set hub; at 500 feet cross wagon road which bears N.E. and S.W. at 986.20 feet set hub; at 1320. feet set temporary $\frac{1}{4}$ corner near the center of the N.W. quarter of sec. 10; at 1668.80 feet set hub; at 1785. feet the S.W. corner of Mark Smell's log house bears East 60 feet; at 1935 feet cross barn roof about 6 feet from west end; at 2100 feet enter swamp; at 2400 leave swamp; at 2640 feet set temporary $\frac{1}{4}$ corner for the center of west of section 10; at 4070.10 feet set hub. at 4929.40 set hub. at 5287.50 ft. the true $\frac{1}{4}$ corner is established by me, bears west 10.50 feet.

Nov. 15th 1911, Harry S Todd, transitman, E. G. Williams, Walter Williams, Mark Smell and Wm. McVay, assisting.

Beginning at the iron section corner previously established by John W. Curo for the true corner to sections 9, 10, 15, 16, T. 140, Range 27, we run East on 8° variation; at 220 enter swamp; at 330 leave same, at 484.40 feet set hub; at 600 enter swamp; at 1160 leave swamp; at 1322.31 set hub for temporary $\frac{1}{4}$ corner; at 1840 cross wagon road bears S. 45° E and N 45° W. at 2000 enter swamp; at 2100 leave same; at 2250 cross wagon road bears N 60° W and S 60° E. at 2616 set hub; at 2644.62 set temporary $\frac{1}{4}$ corner on south side of section 10-140-27. all of the old marks are gone and we continue East; at 3070.70 set hub. at 3130 enter tamarac swamp; at 3900 leave swamp; at 4223 set hub. at 5000 feet set hub; at 5326.95 the true iron corner to sections 10-11-14-15, previously established by Curo, bears south 50.20 feet.

We correct the line back and set the $\frac{1}{4}$ corner west of the $\frac{1}{4}$ corner between sections 10 and 15.

Nov. 16, 1911, Harry S. Todd transitman, E. G. Williams; Walter Williams, Mark Smell, Wm Mc Vay and Peter Mc Vay as a crew.

Beginning at the iron monument previously established by John W. Curo for the true corner to sections 14, 15, 22, 23 - T. 140 - R-27. We run west on 8° var.; at 398.40 set hub; at 772 enter tamarac swamp, bears N 10° W. at 1592 leave swamp, bears S 60° W. at 1779.25 set hub. at 2053 enter meadow bears N. & S. at 2647.24 set hub. the $\frac{1}{4}$ corner between 14 and 22 appears to be gone and we continue our line west. at 2650 leave meadow, N and S. at 3223 ft. set hub. at 5294.48 set hub. at the corner to sections 15-16-21-22 T. 140-R-27, Government notes call for a post and the following bearing trees, Basswood $83^{\circ} 68' 30''$ E 29 links. Maple $65^{\circ} 2' 15''$ W 17 links. Maple $8^{\circ} 15' 49''$ W 49 links. Maple $10^{\circ} 17' 40''$ E 53 links, all are gone.

Nov. 17, 1911, Todd transitman, E. G. Williams, Walter Williams and Mark Smell, continue west, at 6104 set hub. at 6529.30 set hub. at 7005.80 set hub. at 7915.50 set hub. at 8433 set hub.

Nov. 20th 1911, Todd transitman, E. G. Williams and Mark Smell continue west,

SURVEY RECORD No. 189.

At 9620 enter marsh bears N. and S. at 9777 leave marsh; bears S 20° W: at 9828 enter swamp: at 9903 leave swamp; bears N. & S: at 10590.36 set hub for temporary corner to sections 16-17-20-21-T 140-R 27, where government notes call for, Birch 12336' W 25 links, Norway pine 18' x 66° 30' W 33 links: Spruce 8 S 75° E 54 links: Birch 12' x 89° 30' E 49 links all appear to be gone.

Nov. 21, 1911, Todd Transitman, E. J. Williams and Mark Snell continue west at 11487.30 set hub: at 11526.50 enter heavy cedar swamp: at 12000 set hub on a little point of ground; an old logging road bears N. and S.

Nov. 22, 1911, Todd, Walter and E. J. Williams and Mark Snell continue west, at 13237.50 the true 1/4 corner between sections 17 and 20, T 140, R 27, bears south 44.58 feet.

We find the old government 1/4 stake still in fair condition and the stumps of the old bearing trees from which we establish a new corner with new bearings as follows: Cedar 6' x 4° 22' W 26 feet: Cedar 6' x 53° 35' E 23.60 feet.

At the corner to sections 15-16-21-22, we correct our line as to East and West and drive a hub.

Nov. 23, 1911, Todd, Snell, Walter and E. J. Williams: Beginning at the 1/4 corner between sections 15 and 16 T 140-R 27, previously established by Curo, and run south on 8° variation. at 357 set hub: at 960 set hub: at 1050 enter swamp bears E. and W. at 1512 old R. R. grade bears SW: and N.E. at 2300 set hub: at 2645.50 the section corner which we have just corrected as to East and West, bears East 50.88 feet: correcting back north we find that the true line intersects the old R. R. grade at a point 1505 feet south of the 1/4 corner between sec. 15 and 16. T. 140, R. 27.

Recorded Aug. 1st 1912.
John W. Curo, C. Surveyor Cass Co. Minn.

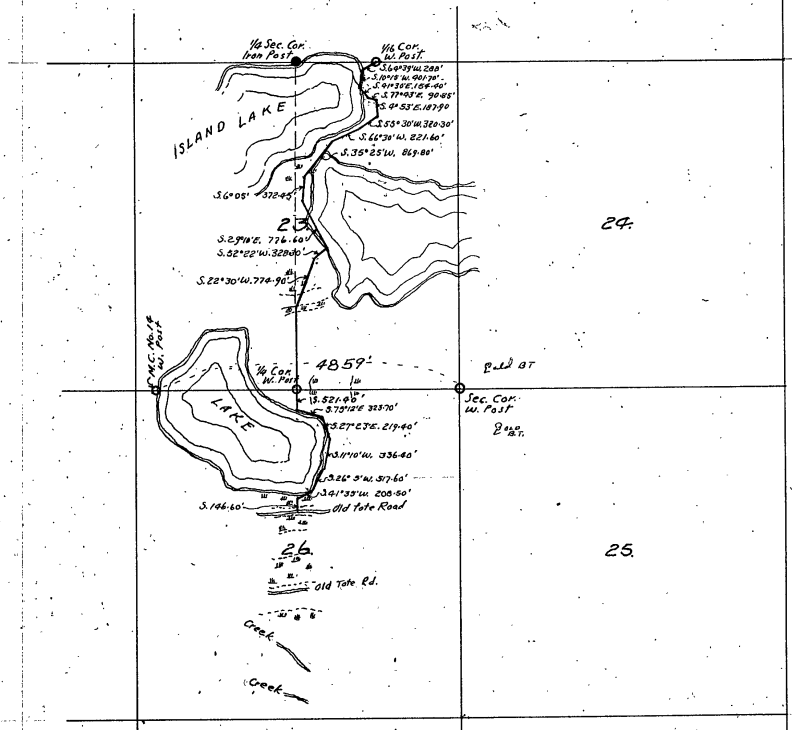
NOTES			
Sec	Cont'd	To	Page of Book
10	"	"	"
15	"	"	"
16	"	"	"
17	"	505	" A"
20	"	505	" A"
21	"	"	"
22	"	"	"

Sec Cont'd From Page of This Book			
23	"	"	312
24	"	"	312

PLAT
SECS. NOS. 23, 24, 25, 26.
T. 140. R. 27. 5TH P.M.

SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 185.



Surveyed Nov 25th 1911 to Dec 13th 1911
Recorded August 15th 1912
John W. Carr, Co. Surveyor Cass Co Minn

Note: Road Survey shown in red.

- PLAT -			
Sec. Cont'd To Page of Book			
23	"	"	576
24	"	"	576
25	"	"	576
26	"	"	576

Field notes of the survey of a part of Township no. 140N, Range no. 27W, 5th principal meridian, through sections 23-24-25-26, as made by Harry S. Todd, Deputy Co. Surveyor of Cass County Minnesota, examined, approved and recorded by John W. Curo County Surveyor of Cass County Minn.

Nov. 25, 1911, Harry S. Todd transitman, Walter Williams, E. G. Williams and Mark Snell assisting: We use a K. & E. transit and a 300 foot Chicago steel tape: transit run to double center hubs, measurements made under a plumb bob.

Beginning at an iron monument set by Curo, for the true $\frac{1}{4}$ corner between sections 14 and 23 Twp. 140-Rge. 27, we run south on 8° var., at 33 feet enter Island Lake: chain across the ice and at 1604.30 set hub on ridge on south side of Island Lake: between the lake and a tamarac swamp: at 3770 feet leave bog which bears S.W. at 3874.70 set hub: at 3925 enter marsh bears E+W. at 4025 leave marsh which bears E+W. at 4275 set hub.

Nov. 27th 1911, Todd, Mark Snell, E. G. Williams, Walter Williams and Frank Daniels working, continue south: at 4913 set hub: at 5280 set temporary $\frac{1}{4}$ corner between sections 23 and 26, Twp. 140, Rge. 27. The bearing trees are gone and we continue south: at 5468.30 set hub: at 5586 enter lake: thence cross on ice and at 7068 leave lake and enter marsh.

Dec. 4th 1911, Todd, and same crew continue line south: at 7222 leave marsh, which bears S 80° E: at 7270 cross old E. & W. toll road on sea wall: at 7278, set hub on seal wall, 7290 enter marsh, 7570 leave marsh: at 7774 set hub: at 8111 enter marsh, E. and W. at 8400 leave marsh.

Dec. 6th 1911, Todd, and same crew continue south: at 8510 cross old toll road which bears E. & W. at 8566.50 set hub: at 8756 enter tamarac swamp: at 9600 feet cross creek which bears S. 25° E. at 10250 cross creek bears south 85° E. at 10560 set temporary $\frac{1}{4}$ between sections 23 and 35; Twp. 140-Rge. 27. as the corner appears to be gone we quit this survey for a while.

Dec. 7th, 1911, Harry S. Todd, Mark Snell, Walter and E. G. Williams and Frank Daniels: Beginning at Meander corner no. 14 on the west side of lake, between fractional sections 23 and 26, T. 140 R. 27, we run East on $7^\circ 55'$ variation, across the ice: at 1635 feet leave lake, Meander corner no. 13 seems to be gone and we continue east: at 1786.70 set hub: at 2100 set hub in our N. & S. survey line: at 2249.61 set temporary $\frac{1}{4}$ corner between sections 23 and 26. All the bearing trees are gone and we continue East: at 2490 ft. enter soft swamp which bears N. & S.: at 3345.40 set hub: at 3471 cross wire fence, bearing N. & S.: enter tamarac bog, N. & S. 4859. the true corner to sections 23, 24-25-26 bears north 49.35. We find the old government bearing trees and stake, under the moss from which we set a new stake for the true corner with bearing trees as follows: Tamarac 3, N.E. 54.40 ft. Correcting back we set the $\frac{1}{4}$ corner between sections 23 and 26 T. 140 R. 27, drive a stake with new bearings as follows. Poplar 4, N.E. 8.30 feet: Poplar 5, N.W. 6.50 feet.

Dec. 8th 1911, Harry S. Todd transitman, Mark Snell, W. Williams, E. G. Williams, and Frank Daniels, axmen and chainmen. To run the south end of a new proposed Township road we begin at the $\frac{1}{4}$ corner between sections 23 and 26, Twp. 140, Rge. 27. and at $8^\circ 30'$ variation we run south 521.40 feet, thence S $75^\circ 12'$ E 323.70 feet. thence

S $27^{\circ}23'E$ 219.40 feet, thence S $11^{\circ}10'W$ 336.40 feet, thence S $26^{\circ}5'W$ 517.60 feet, thence S $41^{\circ}35'W$ 208.50, thence south 146.60 feet, intersecting old East and West tote road Dec. 12th, 1911, Beginning at the $\frac{1}{4}$ corner previously established by Curo, West of the corner to sections 13-14-23-24, Twp. 140, Rge. 27, we run the North portion of a new proposed township road, on a variation of $8^{\circ}35'$ as follows, thence S $64^{\circ}39'W$, at 188 leave swamp; at 288 set hub for angle point on solid ground, thence S $10^{\circ}15'W$ 401.70 feet set hub for angle point on solid ground, thence S $41^{\circ}30'E$ 154.40 feet, enter swamp; thence S $77^{\circ}43'E$ 90.85 feet, set hub for angle point in swamp; thence S $4^{\circ}53'E$, at 160 feet leave swamp. at 157.90 feet set hub, for angle point, thence S $55^{\circ}30'W$ 320.30 feet, thence S $66^{\circ}30'W$ 221.60 feet, thence S $35^{\circ}25'W$ at 591 feet across narrows, at 869.80 feet set hub for angle point, enter swamp, thence S $6^{\circ}5'W$ 372.45 feet to angle point in swamp, thence S $29^{\circ}10'E$, at 464 leave swamp, at 776.60 set hub on solid land for angle point, Todd, Mark Snell, Walter and E.G. Williams and Frank Daniels worked.

Dec. 13th, 1911, Mark Snell, E.G. Williams working, we continue road line, thence S $52^{\circ}22'W$, 328.30 feet, thence S $22^{\circ}30'W$: at 550 enter swamp; at 774.90 intersect the corrected $\frac{1}{4}$ corner on sea wall between sections 23 and 26, T. 140, R. 27.

Recorded August 1st 1912.
John W. Curo, Co. Surveyor Pass Co. Minn.

-NOTES-

Sec.	Cont'd To	Page of Book
23	" "	577 " A"
24	" "	577 " A"
25	" "	577 " A"
26	" "	577 " A"

SURVEY RECORD No. 186.
SECS. NOS. 4, 5, 6, 7, 8, 17, 18, AND 19.
TWP. 133 N., RGE. 29 W., 5TH P. M.

Field notes of the survey of a part of Township no. 133 N., Range no 29 W., 5th principal meridian through sections 4-5-6-7-8-17-18 and 19, as made by John W. Curo, County Surveyor of Cass County Minnesota for the purpose of establishing permanent iron and cement section corners, quarter section corners and sixteenth corners, and also for laying out of established county roads.

We use a K. & E. transit and a 300 foot Chicago steel tape:-

March 21st, 1911, John W. Curo, transitman and chairman, W. E. Hines chairman, Arthur S. Palmer, apm.

1/4 West side
Sec 7.

At the 1/4 corner on the west side of section 7, Township 133 N., Range 29 W., the notes of the original government survey call for a witness corner south 860 links, with bearing trees as follows: Pine S 54° W 8 links, Pine S 40° E 98 links, we find both stumps plainly marked, one of which we had to chop out in order to find the old figures. The distance between the two bearing trees is too short, being 5.28 feet plus 64.68 feet equals 69.96 feet government chain. The total distance between the bearing trees via courses is 69.96 feet gov't chain equals 68.76 feet my chain, so by proportionate measurement 5.28 feet gov't chain equals 5.19 my chain.

We drive an iron spike for the true witness corner and mark new bearings as follows:- Poplar 6 N 25° 52' E 21.20 feet. Jack Pine 10 S 80° 8' E 37.50 feet to tack heads drove in a spot.

Mar 23rd 1911 Jake Huffmann arrives in P.M. and assists Curo in chaining. We run north on 11' 15" variation: at 50 feet enter ice: at 567.60 drive spike in ice for temporary 1/4 corner on west side of section 7, T. 133, R. 29. at 830 feet leave ice: at 941.50 set hub, at which point the magnetic variation changes to 100 but as we are running a transit our line continues straight.

For fear the ice will break up we take the transit back to spike set for temporary 1/4 corner, at 567.60 and with telescope on the witness corner south I turn telescope 88° to the left, and run a short line east to the solid land: at 380 leave lake, at 411 feet set hub: at 443 set hub and tack. I transit the telescope and back sight west: my line of sight comes exactly between two brick chimneys, in Geo. Ramsey's house half a mile west.

See Co West side
Secs 6 & 7

Then going back to hub, 941.50 we continue our transit line north: at 1887.60 set hub 1 foot north of road center for temporary 1/16: at 3207.60 set hub for temporary corner to sections 6 and 7, near which point we find a fence corner built by Geo. Ramsey, who says he built the fence on a line run by a surveyor who established the corner from an old government bearing tree, but when he shows me the tree, I find it to be a Jack Pine, and as the government notes do not call for any Jack Pine bearing trees, we consider his corner wrong and continue our line north.

1/4 West side
Sec 6.
M.C.

Mar. 24th, 1911. at 5847.60 set hub for temporary 1/4 on west side of sec. 6, T. 133, R. 29. All old marks are gone and we continue north: at 7147.80 set hub for temporary M.C. on south side of Sylvan lake. The true meander corner sets 29.60 feet south and 55.20 feet west so that at 7118.20 M.C. sets west 55.20 feet. At this point gov't notes call for a post and the following bearing trees Pine 16 S 40° E 16 links, Pine 14 N 89° W 37 links. We find both stumps, the S.E. plainly marked and the N.W. dimly marked from which we set an old cut spike for the true M.C. by flat measure from face of trees after which a tack.

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in each old tree at 9° variation bears as follows. $S 17^{\circ} 18' E$ 10.56 feet:

$N 87^{\circ} 45' W$ 24.42 feet, to tack heads: We mark new trees as follows:

W. Birch $S 23^{\circ} 33' E$ 10.45 feet Norway Pine $S 53^{\circ} 14' E$ 21.70 feet Correcting back

At hub 5847.60 we chain south 24.21 feet to hub 5823.39, then west 45.15 feet where we set a spike for the true $\frac{1}{4}$ corner on the west side of section 6. 1/4 Cor West Side Sec 6.

At hub 3207.60 we chain south 13.28 feet to hub 3194.32 then west 24.77 feet where we place the true corner to sections 6 and 7, on the range line on west side of Twp. 133, R. 29, by driving a hub and tack. Sec Cor 6 & 7.

At 1887.60 we chain south 7.82 feet to hub 1879.78 feet, then west 14.58 feet where we drive a spike for the true $\frac{1}{16}$ corner north of the $\frac{1}{4}$ on west side of sec. 7. 1/16 Cor West Side Sec 7.

Coming back to spike in ice at 567.60 we chain south 2.35 feet, then west 4.40 feet, where we set a spike for the true $\frac{1}{4}$ corner in Hol-in-the-day lake on the west side of section 7, T. 133, R. 29. 1/4 Cor Sec 7.

Mar. 27th 1911, Curo, Huffman, Hines and Palmer working.

Beginning at hub 411 we chain 150.10 feet East to hub 561.10 feet the south 2.35 feet to a spike, then west 0.40 of a foot to a hub on the true East and west preliminary line, 565.10 feet East to the true $\frac{1}{4}$ corner on the west side of sec. 7, T. 133, R. 29, then chain east along preliminary line 34.90 feet and set stake 600, East: at 873.95 set spike in sand. at 879.60 set hub. back sight on true $\frac{1}{4}$ corner on ice and continue transit line east.

at 890. cross wagon road bearing N.E. + S.W. at 1500 feet set hub: at 1800 set stake: at 1900 enter meadow N.E. + S.W. at 2500 leave meadow, at 2700 set stake, at 2717.20 feet set hub.

Mar. 28th, 1911, continue East: at 2730 feet east enter plowed field, at 2840 cross wire fence, 115 paces, (about 345 feet) south of a center post set by some surveyors for the center of section 7, T. 133, R. 29. This post is probably wrong. continue east across stubble and set stakes every 300 feet: at 4061 feet set hub in stubble, at 5403. set hub 41 feet west of wire fence, at which point we leave the stubble field. Centre Sec 7.

We do not look for the bearings trees to the $\frac{1}{4}$ corner between sections 7 and 8, but get the corner of sections 5-6-7-8, T. 133, R. 29, where government notes call for a post and the following bearing trees. R. Oak $S 56^{\circ} 47' W$ 416 links (= 273.90 feet) White Oak $S 70^{\circ} W$ 322 links (= 212.32 feet) We find the N.W. bearing tree standing plainly marked, from which we set a hub for the true corner by measurement from face of the old tree at 10° var. Setting transit on true corner hub just set I run $S 67^{\circ} W$ 273.90 feet, and find root of old S.W. bearing tree which checks out perfect at 10° variation. Sec Cor 5-6-7-8.

Saturday April 13th, 1912. Curo transitman, Everett Hines and Curo chainmen, Henry Gordon apman, Beginning 33 feet south of the witness $\frac{1}{4}$ corner on the west side of sec. 7, T. 133, R. 29, being an angle point in center of new county road, focus telescope north on true range line variation reads $12^{\circ} 10'$ magnetic, then to run the center line of the partly cut out county road around the Easterly side of Hol-in-the-day lake, we run north $S 3^{\circ} 32' E$ Road angle 224.50 feet to a hub and tack set 33 feet from high water mark, of the lake. thence $N 41^{\circ} 50' E$ 240 feet to a hub and tack set 33 feet from the lakes Road angle

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high water mark, thence north $28^{\circ}26'E$ 258 feet to a hub and tack set 33 ft from the high water mark of the lake, thence $N. 61^{\circ}35'E$ 425 feet to a hub and tack set 33 feet from high water mark of the lake, thence $N. 63^{\circ}23'E$ 590 feet to a hub and a tack set 33 feet from the high water mark of lake, thence $N. 35^{\circ}7'E$ 137 feet to a hub and tack set 33 feet from high water mark of the lake, thence $N. 25^{\circ}24'E$ 245 feet to a hub and tack set 33 feet from high water mark of the lake. thence $N. 2^{\circ}39'E$ 260 feet to a hub and tack set 33 feet from high mark of the lake and swamp: thence $N. 20^{\circ}E$ following 33 feet from the high water mark of the swamp. 438.80 feet to a hub and tack set for the road center on the $\frac{1}{4}$ line at a point 1160 feet west of the north half of sec. 7, Twp. 133, Rge. 29.

Apr. 12th, 1912, W. B. Jones and John W. Curo, set transit on preliminary hub 1877.60 N. and run south 7.82 feet to hub 1879.78 then west 14.58 feet where we set a 4 inch iron pipe 3 feet long in a bed of concrete for the true $\frac{1}{4}$ corner on west side of the N.W. quarter of section 7, Twp. 133, R. Range 29.

Apr. 15th, 1912. Curo, Jones, Gordon & Aimes working we go to N.W. cor. sec. 7, and set transit on hub 3207.60 N, being the temporary N.W. corner of sec. 7, set last year. We check chain in all directions to see that the hub has not been moved, then chain south 13.28 feet to hub 3194.32 N, then west 24.77 feet where we drive a hub for the true N.W. corner of section 7, Twp. 133, Rge. 29. I drive the hub through an old rotten stake point, from which the roots of the old N.E. and N.W. bearing trees check out for course and distance. I mark new bearing trees at 10° var. as follows: Green Jack Pine 12, marked with old scribe marks bears $S. 55^{\circ}E$ 126.10 feet to a tack drove in a spot. Dead Oak 16, $S. 83^{\circ}25'W$ 52.70 feet to a tack.

At the $\frac{1}{4}$ corner between sections 6 and 7, T. 133, Rge. 29, government notes call Norway Pine $S. 57^{\circ}30'W$ 328 links (= 216.48 feet.)

Red Oak 6 $N. 76^{\circ}45'W$ 104 links (= 68.64 feet) we find the old S.W. pine standing plainly marked but dead, and the stump of the old N.W. red oak plainly marked from which we set the true $\frac{1}{4}$ corner by flat chain from face of BT marks and set a hub for true $\frac{1}{4}$ after which the old tree stands as follows: Old Norway pine $S. 57^{\circ}30'W$ 216.48 feet. old red oak stump 6 $N. 75^{\circ}45'W$ 68.64 feet. angle turned from N. dry of N.E. quarter which runs on $7^{\circ}15'$ variation. We mark new bearings as follows.

Red Oak 8 $N. 39^{\circ}58'W$ 37.99 feet. Red Oak 6 $N. 30^{\circ}10'E$ 23.14 feet to tacks.

Mr. A. W. Moulster run this line last year and taking his notes as correct the $\frac{1}{4}$ on north side of section 7, sets 2579.60 feet west of the N.E. corner, and still using Moulster's notes, a line run west through the N.E. corner, and $\frac{1}{4}$ on N. side of section 7, would intersect the true range line at a point 505.70 feet north of N.W. corner and 2923.20 feet west of the $\frac{1}{4}$ corner on N. side of section 7, Township 133, range 29. at the corner to sections 5-6-7 and 8, T133, R29. previously set by me from the old N.W. and S.W. BTS. at 10° variation, I place transit over hub and put in new bearings as follows. Br. Oak 5 $N. 57^{\circ}25'W$ 36.20 feet Br. Oak 2 $N. 76^{\circ}20'E$ 32.97 feet to tack heads at 10° variation.

Run south on 10° variation, over old transit line run by Curs and Moulster; at 100 enter swamp; at 300 leave same; at 694.60 set hub; at 1064.40 set hub on big hill; at 2000 enter swamp; at 2100 leave swamp; at 2951.60 set hub; at about 2955, cross my old E+W. center line, at about 574.46 feet east; at 3258.80 set hub; at 3725 enter swamp; at 4200 leave same; at 4299.80 set hub; variation changed to $9^\circ 15'$ at 4821.40 set hub; at 5305.60 set hub at 5322.30 the corner to sections 7-8-17-18, sets east 17.84 feet; at this point being the corner to sections 7-8-17-18, T. 133, R. 29, government notes call for a post and the following bearing trees, Black Pine 10 S $73^\circ 30'$ E 88 links (= 58.08 ft.) Black Pine 6, N 47° E 144 links (= 95.04 feet.) Black Pine 6 S 72° W 168 links (= 110.88 feet.) Black Oak 4 N 28° W 105 links (= 69.30 feet.) We find the S.E. and S.W. old government bearing trees standing green and plainly marked from which we set the corner by flat measure from face of figures, after which the trees stands as follows. Old f.P. 10 S 63° E 58.08 feet. Old f.P. 6 S $29^\circ 20'$ W 110.88 feet, at 10° variation; we mark new bearings as follows; Oak $1\frac{1}{2}$ N $41^\circ 2'$ W 41.73 feet; Oak $2\frac{1}{2}$ N $42^\circ 27'$ E 19.40 feet to tacks at 10° var.

Apr. 16th, 1912, Curs, Hines, Gordon, Ed. Place and Chas. Hendrickson work all day; at the corner to sections 7-8-17-18-T. 133, R. 29, we set an iron monument 3 feet long by four inches thick in a bed of cement for the true corner, in digging the hole 4 ft. long by 1 ft. wide we strike an iron pipe and a stone; we throw away the pipe but put the stone in the bottom of the hole and cover it with cement and place our iron sec. out it.

Correcting north at hub 2951.60 we run north 290.46 feet. at 2661.145, then east 8.92 feet, where we set a 4x36 inch iron monument in a bed of cement for the true $\frac{1}{4}$ corner between sections 7 and 8, T. 133, R. 29, with new bearing as follows, Scrub Oak 5 S $82^\circ 32'$ W 43.50 feet, Scrub Oak 3 S $5^\circ 45'$ E 57.84 feet to tack heads @ 10° variation, turned from true section line.

At this point government notes call for White oak 9 N $79^\circ 30'$ E 150 (= 118.80 feet.) We find the root of the old tree which stands perfect for course and distance.

To put in the $\frac{1}{16}$ corner on the East side of the N.E. quarter of sec. 7, T. 133, R. 29, we go to stake 1200 south and chain south 130.57 feet to hub 1330.57, then East 4.46 feet where we place a 4x36 inch iron monument in a bed of cement for the true $\frac{1}{16}$ corner.

At the corner to sec. 5-6-7-8-T. 133, R. 29 we pull up the wood hub and put in its place a 4x36 inch iron monument in a bed of cement for the true section corner.

At the $\frac{1}{4}$ corner between sections 5 and 6 T. 133, R. 29 previously set by A. W. Moulster, we pull up the iron bolt and place a 4x36 inch iron monument in a bed of cement for the true $\frac{1}{4}$ corner, after which the old government bearings check out perfect for course and distance, by proportionate measurement from face of the old figures.

At the $\frac{1}{4}$ corner between sections 6 and 7, T. 133, R. 29, we place a 4x36 inch iron monument in a bed of cement and sand for the true $\frac{1}{4}$ corner, and at N.W. corner section 7, being the S.W. cor. of sec. 6, T. 133, R. 29, we place a 4x36 inch iron monument in a bed of cement for the true section corner.

Apr. 17th, 1912. Curs transitman, Hines and Gordon almer and chairman
Beginning the iron $\frac{1}{4}$ corner between sections 5 and 6, Township 133, Range 29.

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iron sets in the wagon road which bears N.E. and S.W. run north on 10° variation, leave road, at 75 feet enter E. edge of little swamp, at 150 leave same: at 300 stake in road which bears N.E. and S.W. At 1360 hub on hill: at 1400 hub on hill, at 2511.30 set hub and tack for temporary N.W. corner section 5; and N.E. cor. sec. 6, where government notes call for a post and the following bearing trees. B. Oak $95.54^{\circ} E 340$ links, Bl. Oak $84^{\circ} 52' W 137$ links, Bl. Oak $84^{\circ} 35' 15'' E 238$ links, Aspen $48.41^{\circ} 50' W 53$ links. The trees appear to be gone and we pack our outfit to the S.E. corner of section 7, T. 133, R. 29, where we begin at the iron corner and run a line half a mile west where we find a gas pipe set for the 4 corner, on the south side of section 7, but as the old bearing tree stumps are still standing we find the gas pipe is about 6 feet to far north for the true corner.

Apr. 15th, 1912. I am 41 years old to-day and ought to know my business. Jones drives me to the 4 corner, on the west side of section 7, T. 133, R. 29, I use a new Heller and Brightly Engineers' transit and a 300 ft Chicago steel tape. We set double center tacked hubs and use a plumb-bob to chain perfect. E. with Hines and I chain: Henry Gordon arman, we chain in carefully and center a 20 lb spike previously set by me for the true 4 corner, on which I set the transit: back sight north on flag at iron set at 4 corner, and run south on $12^{\circ} 15'$ magnetic variation, at 33 intersect hub set for angle point of new road center: at 100 set hub: at 457 feet cross old main road two rods west of fence which seems to have been put up to stop the travel on another main wagon road which bears south and northeasterly from where the fence is across it. at 752.40 set hub in west edge of main N. and south wagon road. at 2072.40 feet set hub for temporary corner to sec. 7 and 18. this corner has been set about a hundred feet east of here by some fool surveyor who attempted to survey a wagon road and the wagon road now runs northwesterly and southwesterly from his corner, which I am sure is wrong, we put this line for the present and put in the 4 cor. between sections 7 and 18, T. 133, R. 29, and drive a hub and tack and place a flag for future use.

Going to the 4 corner on the east side of section 7, I set transit on my old preliminary hub set 5403 feet east of true 4 corner on the west side, and continue our transit line east, needle reads about $7^{\circ} 15'$ variations. We run 44.07 ft. east to 5447.07 turn 90° angle to the left and run north 293.90 feet to the iron 4 corner previously set by me for the true 4 between sec. 7 and 8, T. 133, R. 29, at which point we set a flag, then check chain my old line a mile west and find it correct.

Apr. 19th, 1912. To put in the center of sec. 7, T. 133, R. 29 we correct our old last year E. and W. transit line as follows: at hub 2717.20 E. we run north 90° angle, 146.61 feet and set a hub on true E. & W. center line, over which we place the transit and with telescope focused on the true iron 4 corner east, we run a picket line east to an intersection with a true north and south line run between the 4 corner on north side and the 4 corner on the south side and where the two lines cross we set the true center of section 7, T. 133, R. 29, by placing a 4x36 inch iron monument in a bed of cement and sand 6 ft. long by 1 ft. wide by 6 inches thick, mixed 1 part cement and 6 parts sharp,

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sand wiped dry then watered properly.

Setting transit on the iron center of section 7, just set, focus telescope on 4 on north side, then on 4 on east side, and the angle reads $87^{\circ}51'$.

Beginning at iron center of sec. 7 we run north on $8^{\circ}50'$ var. keeping 4 feet west of wire fence: at 175 feet an old stake set by some one bears east 4 feet: at 1358.50 set hub: at 2484.90 intersect iron 4 corner on north side of section 7. Correcting back we begin at stake 1500 ft. and chain south 57.55 feet to 1442.45 ft. where we set a 4x36 inch iron monument in a bed of cement for the true center of north half of section 7, T. 133, R. 29, this 46 is exactly on line with and half way between the center and the 4 on north side: A stake set by some one bears 75 ft. north and 9.60 feet east of my true corner and fences have been built N. S. & W. from the stake.

Mr. W. B. Jones assisting in setting the iron corners.

Apr. 20th. 1912, Ruro transitman, new H. & B. transit, Gordon, Hines and W. B. Jones assisting: With transit set on iron 46 in center in north half of section 7, we cut a line west half a mile to the iron 46 post, on which I turn the telescope, then on the 4 corner north and the angle reads $94^{\circ}40'$

Apr. 27th, 1912, Ruro transitman and chainman, Everett Hines chainman, Henry Gordon apman, At meander corner no. 59. of twp. 133, R. 29, being no. 24, for twp. 134, R. 29, government notes call for a post and the following bearing trees: pine 20 S. $23^{\circ}30' E$ 32 links (= 21.12 ft). Pine T. $37^{\circ}45' E$ 42 links (= 27.72 ft) we find the stump of both old trees but the S.E. is only dimly marked, and by chopping into the N.E. stump we find the "B.T." plainly marked, from the two stumps we set the true N. C. from face of figures and drive a 3x3x30 inch oak stake, tack near center for true corner, after which at 10° variation the S.E. stump bears perfect for course and distance, but the N.E. stump stands $N 56^{\circ} E$.

I mark new bearings as follows: tack in old S.E. B.T. bears S $24^{\circ} 43' East$. 21.12 feet. Tack in figures on old N.E. B.T. bears N. $55^{\circ} 44' E$ 27.72 feet. 4 Pine 12 N $37^{\circ} 55' E$ 3.80 feet: Birch 8 S $79^{\circ} 26' W$ 3.57 feet to tack heads drove in spot at 10° variation. I turn telescope up, and a two inch branch of the new birch bearing tree is in the right place to be used for a tack shot and is 35 feet above my head, and run east up big round hill at 10° variation at 344.85 set hub on first raise of big hill where we set the transit, tack sight on birch branch which I can just see on account of "round" of hill and continue east, variation changes to $9^{\circ} 50'$: at 508.86 set oak hub for temporary 4 corner on north side of section 6, T. 133, R. 29, being the 4 corner on the S. side of section 31, T. 134, R. 29, where government notes call for: Aspen 8 N $16^{\circ} 30' W$ 45 links: Bl. Oak 6 S. $15^{\circ} W$ 31 links: All are gone and we continue transit line E.

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at 800 set hub on second raise; variation reads $9^{\circ}45'$: at 1350 set hub on 3rd raise, var. reads $10^{\circ}15'$. hill still going up: at 1765 set hub on last raise of hill variation reads $10^{\circ}35'$ thence down hill.

Apr. 28th, 1912, at 2105.30 hub on low bench west of deep ravine, at 2310 ft. of big hill enter dry lake bed: at 2400 lv. level thence up big hill: at 2571.65 hub on top of hill, still raising slightly: at 2776.32 hub on top of big hill, var. changed to $10^{\circ}25'$, thence over quite level land: at 3148.86 set hub for second temporary N.W. corner section (5) T. 133, R. 29; at 3211.50 (about) cross N. + S. random line about 2560.80 N. of iron 4 corner between sections 5 and 6, at 3410 set oak hub.

Apr. 29th, 1912. same crew. at 3790.30 set hub, variation reads $10^{\circ}10'$, at 4700 cross road bears N $80^{\circ}E$ & S $80^{\circ}W$. 80 feet.

At 5654.08 set hub near school house: at 5672. we are about 60 ft. N. of N.W. corner of school house: at 5788.86 look for 4 corner on N. side of section 5, T. 133, R. 29, where government notes call for: Pine 12 $S 91^{\circ}30'E 95$ links. Bl. Oak 6 $N 63^{\circ}30'E 20$ links: both seem to be gone and we continue our transit line east; double center tacked hubs. plumb-bob measurements: at 5861. cross road bears N.W. and S.E. and N. + S. at 7000 enter open bog bears S.E. + N.W. at 7580 lv. bog 3. W. W. at 7801.20 set oak hub 13 steps north of E. + W. wire fence and 20 steps N. of E. + W. wagon road: variation reads $9^{\circ}50'$.

Apr. 30th, 1912, at 7952, cross wire fence, N.E. + S.W. at 7983; center of old government road N.E. + S.W. at 8005 cross wire fence N.E. + S.W. 8055 enter old field about 60 feet north of E. + W. wire fence: at 8428.86 look for N.W. corner of section (4) T. 133, R. 29, where government notes call for. Pine 12 $N 30^{\circ}E 219$ links. Pine 13 $N 22^{\circ}30'W 197$ links. Pine 12 $S 63^{\circ}15'W 545$ links all are gone: at 8570.50 cross N. + S. wire fence 50.60 ft. N. of old small stake at 8573.50 set hub: at 8561.83 set hub.

At 8593.86 look for meandered corner no. 56 of twp. 133, R. 29, where government notes call for, Pine 13 $N 57^{\circ}W 237$ links, find nothing and continue east: at 8700 set stake enter swamp. 8792.80 set hub on Beaver Dam 40 feet N. of E. + W. wire fence. at 8940. fence corner sets south about 40 feet. we find the swamp to wet to cross, and get the distance across with three 60° angles as follows: set hub on line on east side of swamp lake and with transit at hub 8792.80 turn 60° to the right and set a picket line in field across south end of lake.

Take transit to hub over pond, and with telescope focused on hub 8792.80 turn telescope 60° to the left and run down an old logging road; distance to intersection of picket line first run is 1139.65 feet making distance across the lake 1139.65 feet added to 8792.80 equals 9932.45 to hub, over pond. at 9917.82 we look for M.C. no. 57 of T. 133, R. 29, where government notes call for, Pine 12 $N 32^{\circ}W 18$ links, Pine 10 $S 65^{\circ}W 12$ links, all are gone and we continue east; at 9965.55 set hub west edge of road, at 10000 E. set stake. at 10175.35 set hub on hill, at 10300 set stake. at 10400 enter swamp N. + S. at 10600 set stake, at 10790 set hub on beaver dam. at 10800 set stake, var. reads $11^{\circ}10'$. at 10932.50 the true 4 witness corner sets south 90° angle, 73 feet, at this point

being the witness corner to the $\frac{1}{4}$ on N. side of sec (7) T. 133, R. 29, government notes say: wit. corner west 300 links, from which, "black oak 13, bears $N 72^{\circ} 30' W$, 71 links (≈ 46.86 feet) black oak 6, bears $S 13^{\circ} 30' W$ 60 links (≈ 39.60 feet) we find the stumps of both old bearing trees from which we set a $3 \times 3 \times 36$ inch oak post for the true witness $\frac{1}{4}$ corner, after which the stumps of the old bearing trees stand perfect for course at 10° magnetic variation. The marks are mostly gone from these old B.T. stumps, but I remember them when they were plainly marked years ago.

I mark up new bearing trees as follows, Jack Pine 6 $N 26^{\circ} 16' W$ 128.55 feet.
Oak stump 5 $S 58^{\circ} 10' W$ 42.81 feet to tacks drove in a spot on each tree at 10° var.

At 10870.86 temporary M.C. runs east 6164 feet to 10932.50 then south 73 ft. to true W.C. Correcting back; at hub 3148.86 we chain 17.85 ft. east to hub 3166.71 then South 21.15 feet where we drive a $3 \times 3 \times 36$ inch oak post for the true N.W. corner of sec. 5, T. 133, R. 29 and make new bearings as follows: Oak 6 $S 9^{\circ} 43' W$ 49.40 feet to tack; Oak 6 $S 46^{\circ} 38' E$ 38 feet to nail drove in the tree which holds up Peter Jensen's gate.

Setting on hub 2511.30 ft. north of iron $\frac{1}{4}$ between sections 5 and 6, 133-29, the true N.W. corner sec (5), just set bears north 28.20 feet to 2539.50 then west 44.50 ft. to true corner.

May 1st, 1912, Beginning at iron (16) corner in center of north half of sec. 7, T. 133-29, focus telescope on $\frac{1}{16}$ iron half a mile west, and run west through corn stubble; at 1000 leave corn field; at 1090 old main road now fenced up, bears N.E. & S.W. at 1140 center of old cellar hole, "where old chief Hob-in-the-day has a pot of gold buried." at 1160 big oak $3 \times 3 \times 36$ inch stake for intersection of angle point in new county road coming up from the S.W. at 1350. enter swamp N.W. & S.E. at 1800 leave swamp N.E. & S. at 2878.90 intersect iron 16 corner.

With transit on hub 2072.40 S. of witness $\frac{1}{4}$ corner, being the temporary S.W. corner, section 7, T. 133, R. 29, continue transit line south at $10^{\circ} 50'$ var. double center hubs plumb bot. line: at 2460 enter plowed field; at 3000 set stake in center of v. rod swamp; at 3615 leave field; at 3719 tack in center of N.P.R. R. 64 ft. west of center of crossing; at 3812. Wagon road E & W; at 3827.35 set hub: var. changed to $9^{\circ} 35'$ road N.E. & S.W. at 6000 leave road; at 7352.40 temporary N.W. corner, section 19-T. 133, R. 29. Old corner is gone and we continue south. at 7403. the point for crossing for three fences is east 10 feet; at 7408.70 an old 2 inch stake with nail in top bears west $\frac{1}{2}$ foot; at 7565, hub in plowed field west of N & S fence. at 8735 fence corner bears west 15 feet, and a stake sets east 1.40 feet. at 9376 set hub.

May 2nd, 1912, John P. Hines, Barney Hines and Chad Ramsey apmew. Henry Gordon, Everett Hines and I chaining perfect: transit on hub 9376. continue range line south: at 9533 road E & W. at 9992.40 temporary (4). at 9992.40 + 25.60 = 10018 the true $\frac{1}{4}$ on west side of section (19) 133-29, bears west 12.36 feet. We continue our transit line south. 10110 cross new road S.E. & N.W. at 10117.70 set hub. at 11364.85 set hub, variation reads $9^{\circ} 15'$ at 11838.93 set hub on hill, var. reads 9° . at 11881.32 temporary meander corner. at 11910.35 the true M.C. sets east 8.80 feet.

At this point being the meander corner no. 42. of township 133, Range 29, on the north side of Crow wing river, government notes call for Bl. Oak 83. $79^{\circ} 30' E$ 144 links (≈ 9.24 feet) Ash 12 $N 79^{\circ} 30' W$ 460 links (≈ 303.60 ft.) We find the Ash standing plainly marked and green and the stump of the oak which check out perfect for course and distance at 9° variation: we set oak $3 \times 3 \times 36$ inch meander corner with new bearings

as follows. Oak 5 $N 2^{\circ} 2' W$ 29 feet. Oak 6 S $88^{\circ} 22' E$ 38.15 feet to nail heads, at 9° var. This line shows that there is some slight brook in the range line.

At the $\frac{1}{4}$ on west side of 19, T. 133, R. 29, government notes call for Pine 8 S $29^{\circ} E$ 92 links (= 60.12 ft.) Pine 12 $N 66^{\circ} 30' W$ — (no distance given) we find the stump of the S.E. tree plainly marked, from which we set the true $\frac{1}{4}$ corner, angle turned from the true range line, at $8^{\circ} 45'$ variation. We set a $3 \times 3 \times 36$ inch oak stake for the true $\frac{1}{4}$ corner on west side of section 19, T. 133, R. 29, with new bearings as follows: Jack Pine 10 $N 8^{\circ} 5' 2" E$ 131.15 ft. to nail head. Oak 8 S $76^{\circ} 47' E$ 40.33 feet to nail head at $8^{\circ} 45'$ variation.

May 3rd, 1912. Correcting range line on west side of township 133, range 29. Beginning @ W.C. west side of section 7. Then south, @ 2072.40 temp. sec. cor. @ 4712.40 temp. corner. @ 7352.40 temp. sec. cor. @ 9992.40 temp. $\frac{1}{4}$ cor. the true $\frac{1}{4}$ on west side of 19, bears south 25.60 feet to hub 10018 then west 12.36 feet, hub 7352.40 goes S. 18, 84 to 7371.24, then west 9.09 feet, where we place the true S.W. cor. of sec. 18, T. 133, R. 29, and set a $4 \times 4 \times 36$ inch iron pipe in a bed of cement for the true sec. cor.

To put in the $\frac{1}{4}$ on west side of sec. 18-133-29, hub 4712.40 goes S. 12.04 to hub 4724.47 then west, 5.83 feet, to place for true $\frac{1}{4}$ cor. but we do not have time to set this to-day. At hub 2072.40 we chain 5.31 feet south to 2077.71 then west 2.56 ft. where we place a $4 \times 4 \times 36$ inch iron pipe, set in a bed of concrete for the true S.W. corner section 7, T. 133, R. 29, the root of the old N.W. bearing tree stands correct for course and distance by using the true line as a meridian.

At the U.S. Witness corner to the $\frac{1}{4}$ on west side of section 7, T. 133, R. 29, we pull up the wood hub and spike previously set by me and put in its place a $4 \times 4 \times 36$ inch iron monument set in a bed of cement, sand and stone for the true witness cor.

To put in the $\frac{1}{4}$ corner between sections 7 and 18-T. 133, R. 29, we find plainly marked, the stump of "Black Pine 6, $N 75^{\circ} W$ 57 links" called for in the government notes. In order to get the mean course of the section line, or the meridian the original surveyors used in what they considered " $N 75^{\circ} W$ "; I take the course of the west half mile of line, and the course of the east half mile, as there is a heavy brook in the line here. I find that from the S.E. corner west to the $\frac{1}{4}$ the line runs on 8° magnetic variation and from the $\frac{1}{4}$ corner west to the S.W. corner, the line runs on $14^{\circ} 10'$ var. If the two lines were of the same length the mean course would be $11^{\circ} 5'$ but as the west part of the line is slightly longer than the east part, the mean course figures out at $11^{\circ} 15'$ var. so I set the post from the old pine stump by flat chain from face of B.T. marks, at $11^{\circ} 15'$ var. and set a $4 \times 4 \times 36$ inch iron pipe in a bed of cement and sand for the true $\frac{1}{4}$ cor. between sections 7, and 18, T. 133, R. 29, after which the roots of the old bearing tree called for in the notes, check out for course and distance from my $\frac{1}{4}$ corner. I put in new bearings as follows.

Oak 5 $N 51^{\circ} 30' E$ 30.02 feet to nail head. Tack in old N.W. Pine stump bears $N 75^{\circ} W$ 103.62 ft. and iron pipe $1\frac{1}{2}$ inch, set by some one years ago, bears $N 15^{\circ} E$ 5.85 feet. All at $11^{\circ} 15'$ variation. M. W. B. Jones assists us in setting the iron monuments.

May 4th, 1912. Henry Gordon takes a spade and goes to all the iron corners just set and rounds them up with dirt, as I originally left them sticking a foot above the ground.

Resident witnesses to this survey are W. B. Jones, Henry Gordon, Everett Hines, Peter Jensen, August Setter and Chas. Hendrickson.

Recorded August 1st 1912
John W. Cunniff Surveyor Cass Co. Minn.

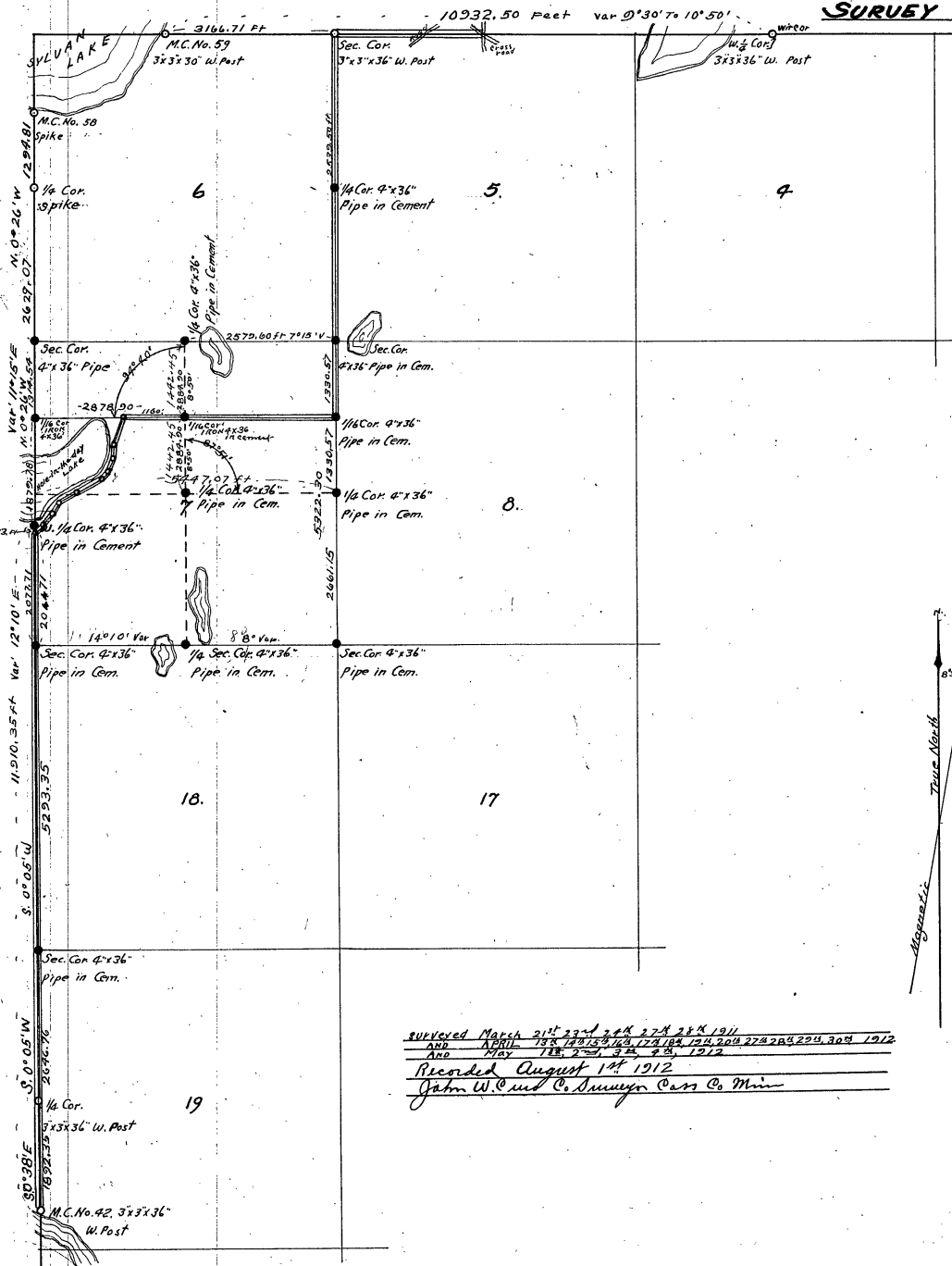
PLAT

SECS. Nos. 4, 5, 6, 7, 8, 17, 18, AND 19, Twp. 133.

R. 29 W., 5TH P.M.

SCALE: 3 IN. = 1 MI.

SURVEY RECORD No. 186.



Surveyed March 21st 22nd 24th 27th 28th 1911
 AND APRIL 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 1912
 AND MAY 1st 2nd 3rd 4th 1912
 Recorded August 1st 1912
 John W. Cund C. Sawyer Carr Co Minn

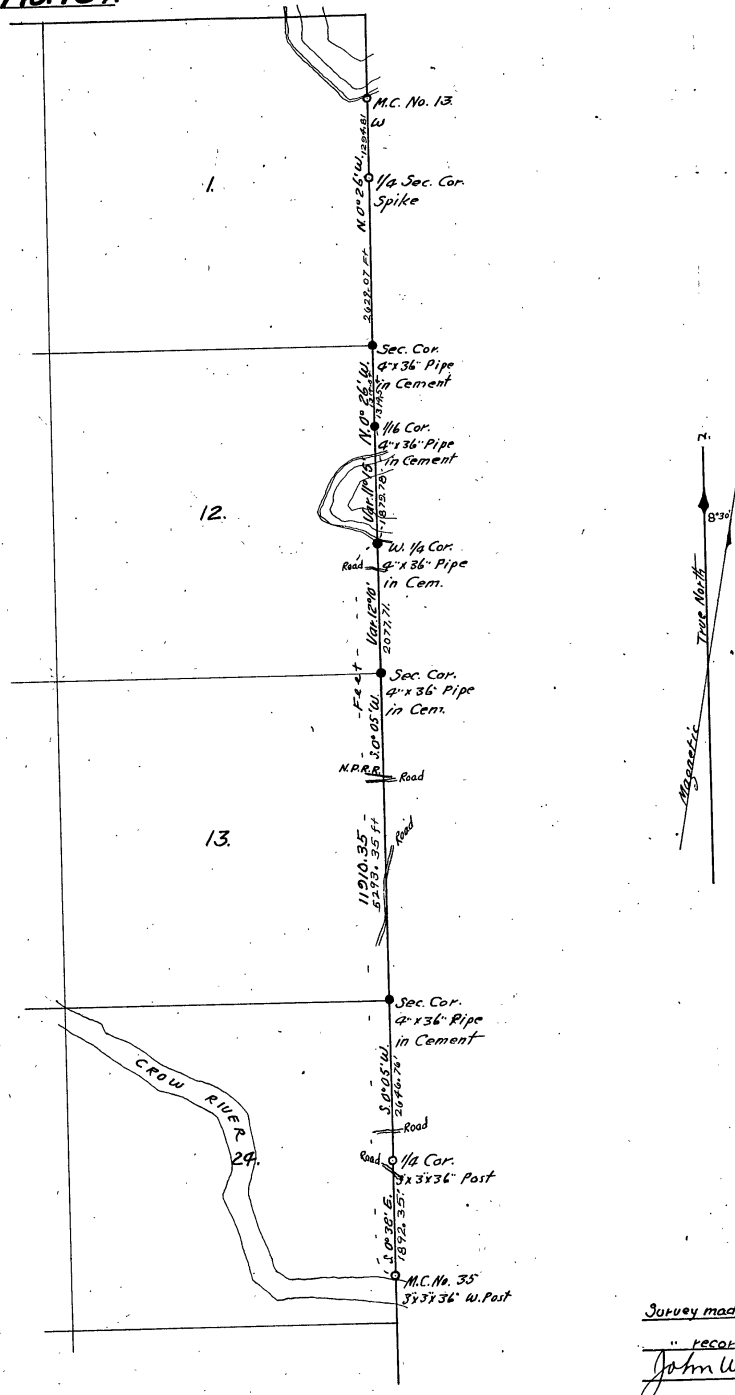
- CROW WING RIVER & BULLLAKE CO ROAD
- 4x36 INCH IRON SECTION CORNERS SET IN CONCRETE
- WOOD STAKES SET AT CORRECT SECTION CORNERS

Sec.	Cont'd From Page	This Book
1	"	360
2	"	360
3	"	360

PLAT
SECS. NOS. 1, 12, 13 AND 24
TWP. 133, R. 30, 5TH P.M.

SCALE: 3 IN. = 1 MI.

SURVEY RECORD No. 187.



Survey made Mar. 21, 23, 24, ¹⁹¹¹ April 14, 15, 16, 18, May 12, 31, 1912.

recorded Aug. 1, 1912.
 John W. Currier, Co. Surveyor Cass Co. Minn.

Sec	Cont'd	From Page	This Book
1	"	"	359
12	"	"	359
13	"	"	359

SURVEY RECORD No. 187.
SECS. Nos. 1, 12, 13 AND 24.
TWP. 133, R. 30, 5TH P.M.

Field notes of the survey of a part of township no. 133, N Range no. 30 W, 5 principal meridian, through sections 1-12-13 and 24, as made by John W. Curo, County Surveyor of Cass County Minn. for the purpose of establishing permanent iron and cement section corners and quarter corners, and also for laying out of an established County road.

We use a first class engineers' transit, in perfect adjustment and a 300 foot Chicago steel tape.

March 21st, 1911, John W. Curo transitman and chairman, W.E. Hines chairman, Arthur S. Parlmer assman.

At the 1/4 corner on the east side of section 12, Twp. 133, range 30, the notes of the original government survey call for a witness corner south, 860 links, with bearing trees as follows: Pine S 34° W 8 links. Pine S 146° E 98 links. We find both stumps plainly marked one of which we had to chop out in order to find the old figures. The distance between two bearing trees is too short being 5.28 feet + 64.68 feet equals 69.96 feet government chain, the total distance between the bearing trees by way of courses, 69.96 ft. government chain, and equals 68.76 feet my chain or 1.20 ft. short. So by proportionate measurement 5.28 feet government chain equals 5.19 feet my chain. We set the corner by proportionate measurement and drive an iron spike for the true witness corner, with new bearings as follows: Poplar S 25° 52' E 21.20 feet. Jack Pine 103 80° 8' E 37.50 feet to tack drive in a spot.

March 23rd, 1911 Jake Huffman arrives in P.M. and assists Curo in chaining. We run north on 11° 15' variation: at 50 feet enter ice. at 567.60 feet drive spike in ice for temporary 1/4 corner, on east side of sec. 12, T. 133, R. 30. at 830 feet leave ice. at 941.50 set hub. at which point the magnetic variation changes to 10° but as we are running a transit, our line continues straight, at 1887.60 set hub one foot N. of road center for temporary 1/2 corner. at 3207.60 set hub for temporary corner to sections 1 and 12, T. 133, R. 30, near which point we find a fence corner built by Geo. Ramsey, who says he built the fence on a line run by a surveyor who established the corner from an old govt. bearing tree, but when he showed me the tree the surveyor used, I find it to be a jack pine. and as the govt notes do not call for any jack pine bearing trees, we consider his corner wrong and continue our line north.

March 24th, 1911. At 5847.60 set hub for temporary 1/4 corner on the east side of section 1, T. 133, R. 30. All old marks are gone and we continue north, at 7147.80 set hub for temporary meander corner on south side of Sylvan Lake.

The true meander corner sets 29.60 feet south and 55.20 feet west so that at 7118.20 m.c. no. 13 of Twp. 133-rge. 30, sets west 55.20 feet. At this point govt. notes call for a post and the following bearing trees. Pine 163 40° E 16 links. Pine 14 N 89° W 37 links. We find both stumps, the S.E. plainly marked and the N.W. dimly marked from which we set an old cut spike for the true M. C. by flat measure from face of the trees, after which a tack in each old tree at 90° vari bears as follows: S 17° 18' E 10.56 feet. N 87° 45' W 24.42 feet to tack heads. We mark new bearings as follows: white Birch S 4° 23' 83' E 10.45 feet. N Pine 65 53' 14' E 21.70 feet. Correcting back. Hub 5847.60 we chain S 24.21 feet to hub 5823.39 ft. N then west 45.15 feet where we set a spike for the true 1/4 corner on the east side of section 1, T. 133, R. 30.

SURVEY RECORD No. 187

At hub 3207.60 we chain south 13.25 feet to hub 3194.32 $\frac{1}{4}$, then west 24.77 feet where we place the true corner to sections 1 and 12, T. 133, R. 30, by driving a hub and tack.

At 1887.60 we chain south 7.82 feet to hub 1879.78 $\frac{1}{4}$, then west 14.58 feet where we drive a spike for the true $\frac{1}{4}$ corner north of the $\frac{1}{4}$ on east side of section 12. Coming back to spike in ice at 567.60 we chain south 2.35 feet then west 4.40 feet where we drive a spike in the ice for the true $\frac{1}{4}$ corner on the east side of sec. 12, T. 133, R. 30, in ~~the~~ in the day lake.

Apr. 14th, 1912. W. B. Jones and John W. Curo, set transit on preliminary hub 1887.60 $\frac{1}{4}$, and run south 7.82 feet to hub 1879.78, then west 14.58 feet where we set a 4x36 inch iron monument in a bed of cement and sand for the true $\frac{1}{4}$ corner on east side of the N.E. quarter of section 12, township 133, range 30.

Apr. 15th, 1912. Curo, Jones, Henry Gordon and Everett Hines go to the corner to sections 1 and 12, on the east side of T. 133, R. 30, set transit on hub 3207.60 $\frac{1}{4}$, being the temporary sec. corner set last year. We check chain in all directions, to see that the hub has not been moved. Then chain south 13.28 feet to hub 31.94.32 north, then west 24.77 feet, where we drive a hub for the true N.E. corner of sec. 12, T. 133-30. I drive the hub through an old rotted stake from which the roots of the old N.E. and N.W. bearing trees check out for course and distance. I mark new bearing trees at 10° var. as follows: Green Jack Pine 12, marked with old scribe marks, bears 350° E 126.10 feet to a tack drove in a new spot. Dead Oak 16 S 83° 25' W 52.70 feet to a tack.

Apr. 16th, 1912. Curo, Hines, Gordon, Ed. Place and Chas. Hendrickson, at the corner, to sections 1 and 12 on east side of twp. 133- rge 30 we pull up the hub and put in its place a 4x4x36 inch iron pipe set in a bed of cement for the true sec. cor.

April 18th, 1912. Jones drives me to the $\frac{1}{4}$ corner on the east side of sec. 12, T. 133- R. 30, I use a new Heller and Brightly engineers' transit in perfect adjustment and a 300 foot Chicago steel tape, we set double center tacked hubs and use a plumb bob in chaining. Everett Hines and Curo chaining perfect, Henry Gordon as man. We chain in carefully and center the 20d spike, previously set by me for the true witness $\frac{1}{4}$ corner, on which fast the transit, back sight north on flag set at iron $\frac{1}{4}$ corner, and run south on 12° 10' magnetic variation at 33 intersect. a hub set for angle point of new County road center. at 100 feet set hub: at 457 cross old main road, at 752.40 set hub in west edge of main N. & S. wagon road: at 2072.40 set hub for temporary corner to sections 12 and 13, on east side of twp. 133, rge 30.

May 1st, 1912. continue south: needle reads 10° 50' variation, but we continue our line straight on the same course we first started: at 2460 enter flowed field: at 3000 set stake in center of 6 rod swamp: at 3615 $\frac{1}{2}$ field 2719 tack in center of N.P. R.R. track 64 feet west of center of crossing: at 3812 cross wagon road which bears E & W. at 3827.35 set hub: variation changes to 9° 35': at 4712.40 temporary $\frac{1}{4}$ corner: the old BTS. are gone. at 5329.80 set hub: enter road $\frac{1}{2}$ E. & S.W. at 6000 leave road. at 7352.40 temporary N.E. corner of sec. 24, T. 133, R. 30. Old corner is gone and we continue south. at 7403 the point for the crossing for three fences bears east 10 ft. at 7408.70 an old two inch stake with nail in top bears $\frac{1}{2}$ foot west. at 7565 set hub in flowed field, west of N & S fence. at 8735 fence corner, bears west 15 feet and a stake sets east 140 feet. At 9376 set hub.

SURVEY RECORD No. 187.

May 2nd, 1912. John P. Hines, Barney Hines and Charles Ramsey, appraisers, Henry Gordon, Everett Hines and J. Chaining perfect, transit on hub 9376.

Continue range line south. @ 9333 a road bears E. and W. @ 9992.40 temporary 1/4 corner. at 9992.40 plus 25.60 equals 10018. the true 1/4 corner on the east side of section 24, T. 133, R. 30, bears west 12.36 feet. we continue our transit line south.

At 10110 cross new road S.E. and N.W. at 10117.70 set hub. at 11364.85 set hub. var. 9° 15' at 11838.93 set hub, on hill var. reads 9°.

At 11881.32 temporary meander corner at 11910.35 the true M. C. sets east 8.80 feet. At this point being meander corner no. 35 of twp. 133, rge. 30, on north side of Crow Wing River, government notes call for, Bl. Oak S 79° 30' E 14 links (= 9.24 ft.) Ash 12, N 79° 30' W 460 lks. (= 303.60 ft.)

We find the ash standing plainly marked and green, and the stump of the oak which check out perfect for course and distance at 9° var.

We set an oak 3x3x36 inch meander corner with new bearings to nail heads at 9° variation, this line shows that there is a slight crook in the range line.

At the 1/4 on east side of sec. 24, T. 133, R. 30, govt. notes call for, Pine S 29° E 92 links (= 60.72 ft.) Pine 12 N 66° 30' W. (no distance given) We find the stump of S.E. tree plainly marked, from which we set the true 1/4 corner, angle turned from the true range line at 8° 45' var.

We set a 3x3x36 inch oak stake for the true 1/4 corner on east side of sec. 24, T. 133, R. 30, with new bearings as follows. Jack-Pine 10 N 8° 52' E 131.15 feet, to nail head, Oak S 76° 47' E 70.30 feet to nail head at 8° 45' var.

May 3rd, 1912. Correcting range line on east side of twp. 133, R. 30,

Beginning at witness corner E. side of 12, 133-30, thence S. at 2072.40 temp. sec. cor. at 4712.40 temp. 1/4 corner. at 7362.40 temp. sec. cor. at 9992.40 temp. 1/4 corner. the true 1/4 on east side of 24, bears south 25.60 feet to hub 10018. then west 12.36 feet. Hub 7362.40 goes south 18.84 to 7371.24, then west 9.09 feet where we place the true corner to sections 13 and 24, on east side of twp. 133, R. 30, and set an 4x4x36 inch iron monument in a bed of cement and sand for the true sec. corner.

To put in the 1/4 on east side of section 13, T. 133, R. 30, hub 4712.40 goes south 12.07 to 4724.47 then west 5.83 feet to place for true 1/4, but we do not have time to set this to-day.

At hub 2072.40 we chain 5.31 feet south to 2077.71 then west 2.56 ft. where we place a 4x4x36 inch iron pipe set in a bed of concrete for the true cor. to sections 12 and 13, on east side of Twp. 133, R. 30, the root of the old N.W. bearing tree stands correct for course and distance, by using the true range line as a meridian.

At the U.S. witness corner to the 1/4 on the east side of sec. 12, T. 133, R. 30, we pull up the wood hub and spike, previously set by me, and put in its place a 4x4x36 inch iron monument set in a bed cement, sand and stone for the true witness 1/4 corner.

May 4th, 1912. Henry Gordon takes a spade and goes to all of the iron monuments just set, and rounds them up level with dirt, as I originally left them sticking a foot above ground.

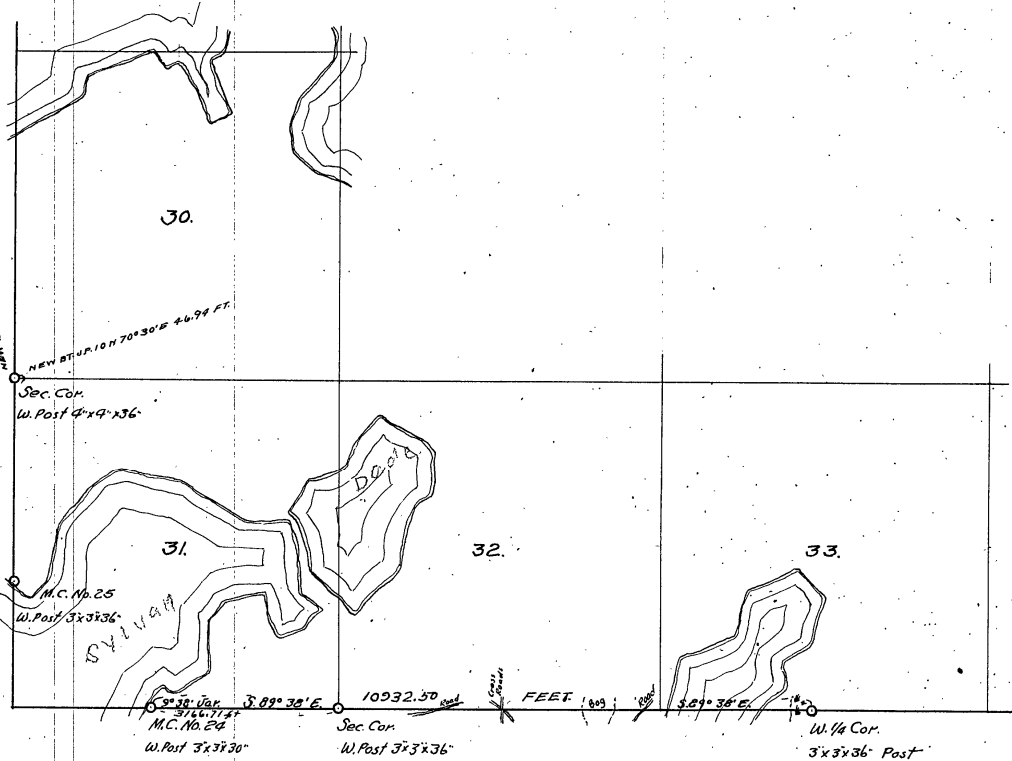
Resident witnesses to this survey are, J. B. Jones, Henry Gordon, Everett Hines, Peter Jensen, August Setter and Chas. Henderickson.

Recorded Aug. 1st 1912.

PLAT
SECS. Nos. 30, 31, 32 & 33.
TWP. 139, R. 29, 5TH P.M.

SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 188.



Survey made April 27, 28, 29, 30, 1912.
recorded Aug. 1, 1912.
John W. Curo, Co. Surveyors, Cass Co. Mo.

Field notes of the survey of a part of township no. 134, range no. 29, W. 5th principal meridian through sections 30-31-32 and 33, as made by John W. Curo, County Surveyor of Cass County, Minnesota. We use a new Heller and Brightly engineer's transit in perfect adjustment and a Chicago steel tape, 300 feet long. set double center tacks and make all measurements under the plumb-bob.

Apr. 27th, 1912. John W. Curo, transitman and chainman, Everett Hines chainman and asman, Henry Gordon asman. To run the south boundary of a part of the township we go to meander corner no. 24, on the east side of Sylvan lake and on the south line of section 31, where govt notes call for a post and the following bearing trees. Pine 20 S 23° 30' E 32 links ± 21.12 feet. Pine 7 S 37° 45' E 42 links ± 27.72 feet. We find the stump of both old trees but the S.E. is but dimly marked, and by chopping into N.E. stump, we find the B.T. plainly marked. From the two stumps we set the true meander corner, by flat chain from face of figures and drive a 3x3x30 inch oak stake, tack near center for true cor. after which at 10° var. the S.E. stump bears perfect for course and distance, but the N.E. stump stands N 56° E, I mark new bearings as follows. Tack in old S.E. B.T. bears S 24° 43' E 21.12 feet. Tack in figures of old N.E. bearing tree bears N 55° 44' E 27.72 feet.

Norway Pine 12, N 37° 55' E 13.80 feet. Birch 8 S 79° 26' W 3.51 feet to tack heads drove in a spot at 10° variation. I turn telescope up, and a two inch branch of the new birch bearing tree, is in the right place to be used as a back shot and is 35 feet above my head. We run east, up big round hill at 10° variation.

At 344.85 feet set hub on top of first raise of big hill, where we set the transit and back sight on birch branch, which I can just see on account of "round" of hill and continue east, var. changes to 9° 50'. At 508.86 set oak hub for temporary 4 corner on south side of sec. 31, Twp. 134, R. 29, where govt notes call for a post and the following bearing trees, Aspen 8 N, 16° 35' W, 245 links, Black Oak 6 S 15° W 31 links, all are good and we continue transit line east. At 800 set hub on second raise, where variation read 9° 45'. At 1350 set hub on third raise, variation reads 10° 15', hill still going up. At 1765. set hub on last raise of hill, variation reads 10° 35' thence down hill.

Apr. 28th, 1912. At 2105.30 set hub on low bench west of deep ravine, at 2310 foot of big hill, enter dry lake bed. at 2400 leave level, thence up big hill, at 2571.65 hub on top of hill, still raising slightly. at 2776.32 set hub on top of big hill. var. changes to 10° 25'. thence over quite level land. at 3148.86 set hub for temporary corner to sections 31 and 32, on south side of twp. 134, rge 29, where govt notes call for a post and the following bearing trees. B. Oak 9 S 54° E 340 links, Bl. Oak 8 N 52° W 137 links. B. Oak 8 N 35° 15' E 230 lks. Aspen 4 S 41° 30' W 53 lks. All appear to be gone and we continue east, at 3410 set oak hub.

Apr. 29th, 1912, Curo, Hines and Gordon working. At 3790.30 set hub. var. reads 10° 10'. At 4700 cross road which bears north 80° E and S 80° W. at 5654.08 set hub near school-house. at 5672 west about 60 feet N. of the N.W. corner of the school-house. at 5788.86 we look for the 4 corner on south side of sec. 32, Twp. 134, Rge. 29, where govt notes call for a post and the following bearing trees. Pine 12 S 1° 30' E 95 links, Bl. Oak 6 N 63° 30' E 20 links. Both appear to be gone, and we continue our transit line east, double center hubs, plumb-bob chain. at 5861 cross roads bearing N. & S. and N.W. & S.E. At 7000 enter open bog S.E. & N.W. at 7500 leave bog, S.W. & N. at 7801.20 set hub 13 steps N. of E+W. wire fences and 20 steps N. of E+W. road. variation reads 9° 50'.

SURVEY RECORD No. 188.

Everett Hines and I go to meander corner no. 25, twp. 134, rge. 29 on the range line and on the north side of Sylvan lake, where government notes call for a post and the following bearing trees: Norway Pine 16, N 47° 30' W 13 links (= 5.58 feet) Norway Pine 18 N 73° E 81 links (= 53.46 ft.) We find the stump of the N.W. tree standing plainly marked and the body of the east tree down plainly marked, and we set the true meander corner by flat chain from face of old stumps, after which the trees stand perfect for course and distance, only the 18 inch old bearing tree stands S. 73° E instead of "N 73° E". The original surveyors evidently made a mistake in recording the course of the easterly bearing tree, as we find the point of the old original stake in the ground at the exact point, at which we set our new stake, and drive a 3x3x36 inch oak post for the true corner with new bearings trees as follows: Jack Pine 48 20° E 43.35 ft. to tack head. Bl. Oak 48 55° W 18.43 feet to tack head, Aspen 4, N 36° E 8 feet, to nail head, at 10° mag. var. Compass line, plumb bob chain.

Going to the sections 30 and 31, on the west side of twp. 134, rge. 29, govt notes call for a stake and the following bearing trees: Pine 8 N 25° W 8 links (= 5.28 ft.) Pine 8 N 70° E 15 links (= 9.90 feet) Pine 8 S 31° E 7 links (= 4.62 feet) Pine 7 S 52° W 24 links (= 15.84 feet) We find the S.E. tree standing green, plainly marked: also find the S.W. tree, dead and down but plainly marked, we find the stump of the N.E. tree "marked B.T." and we find the roots and some figures of the N.W. tree. We set the corner by flat chain from face of figures of the N.E. & S.E. trees, after which the position of the other two check out perfect for course and distance at 10° variation: we set a 4x4x36 inch post for the true corner with new bearings as follows: Jack Pine 10 N 70° 30' E 46.94 feet to a nail head. Jack Pine 6 N 19° W 88.91 feet to tack head, at 10° variation.

April 30th, 1912. Purd, Hines and Gordon, coming back to the south boundary of twp. 134, rge. 29, we set transit on hub 7801.20 and continue our transit line east 7952.

Cross wire fence N.E. and S.W. at 7953, old govt road bears N.E. and S.W. at 8005 cross wire fence which bears N.E. & S.W. at 8055 enter old field about 60 feet N. of E & W. wire fence, at 8428.86 we look for the corner to sections 32 and 33, on south side of twp. 134, rge. 29. where govt notes call for a post and the following bearing trees: Pine 12 N 30° E 219 links, Pine 13 N 22° 30' W 197 links, Pine 12 S 63° 15' W 545 links. All are gone and we continue east: at 8570.50 cross wire fence running N & S. at a point 50.60 feet N. of an old small stake. At 8573.50 set hub. At 8561.83 set hub. At 8593.86 feet look for meander corner no. 31, of twp. 134, rge. 29, the notes call for Pine 13 N 37° W 237 links. find nothing continue east. At 8700 enter swamp. At 8792.50 set hub on Beaver Dam, 40 feet N. of E & W. wire fence. We find the swampy lake to wet to cross, and get the distance with three 60° angles as follows: set hub on line on east side of swampy lake and with transit at hub 8792.50 turn 60° to the right and run a picket line in field across south end of lake, take transit to hub over pond, and with back sight on hub 8792.50 turn telescope 60° to the left, and run down old logging road 1139.65 feet to the intersection with our picket line just run making the distance across the lake 1139.65 feet, added to 8792.50 = 9932.45 feet to hub over pond. At 9917.52 we look for M.C. no. 30, of twp. 134, rge. 29, where govt notes call for Pine 12 N 32° W 18 links, Pine 10 S 56° W 12 links. All are gone and we continue east. At 9965.55 set hub west edge of road. At 10000 we set stake at 10175.35 set hub on hill. At 10000 set stake. At 10400 enter swamp N & S. at 10600 set stake. At 10790 set hub on Beaver Dam. At 10800 set stake. variation reads 11° 10'. At 10932.50 the true 4 witness corner to the 4 on south side of sec. 33-

SURVEY RECORD No. 188.

twp. 134, rge. 29. government notes say witness corner west 300 links from which, Black Oak 13 bears north $72^{\circ} 30' W$ 71 links (= 46.86 feet.) Bl. Oak 6 bears south $13^{\circ} 30' W$ 60 links (= 39.60 feet.) we find the stumps of both old bearing trees from which we set a $3 \times 3 \times 36$ inch oak post for the true W. R. after which the stumps of the old bearing trees stand perfect for course and distance at 10° magnetic variation.

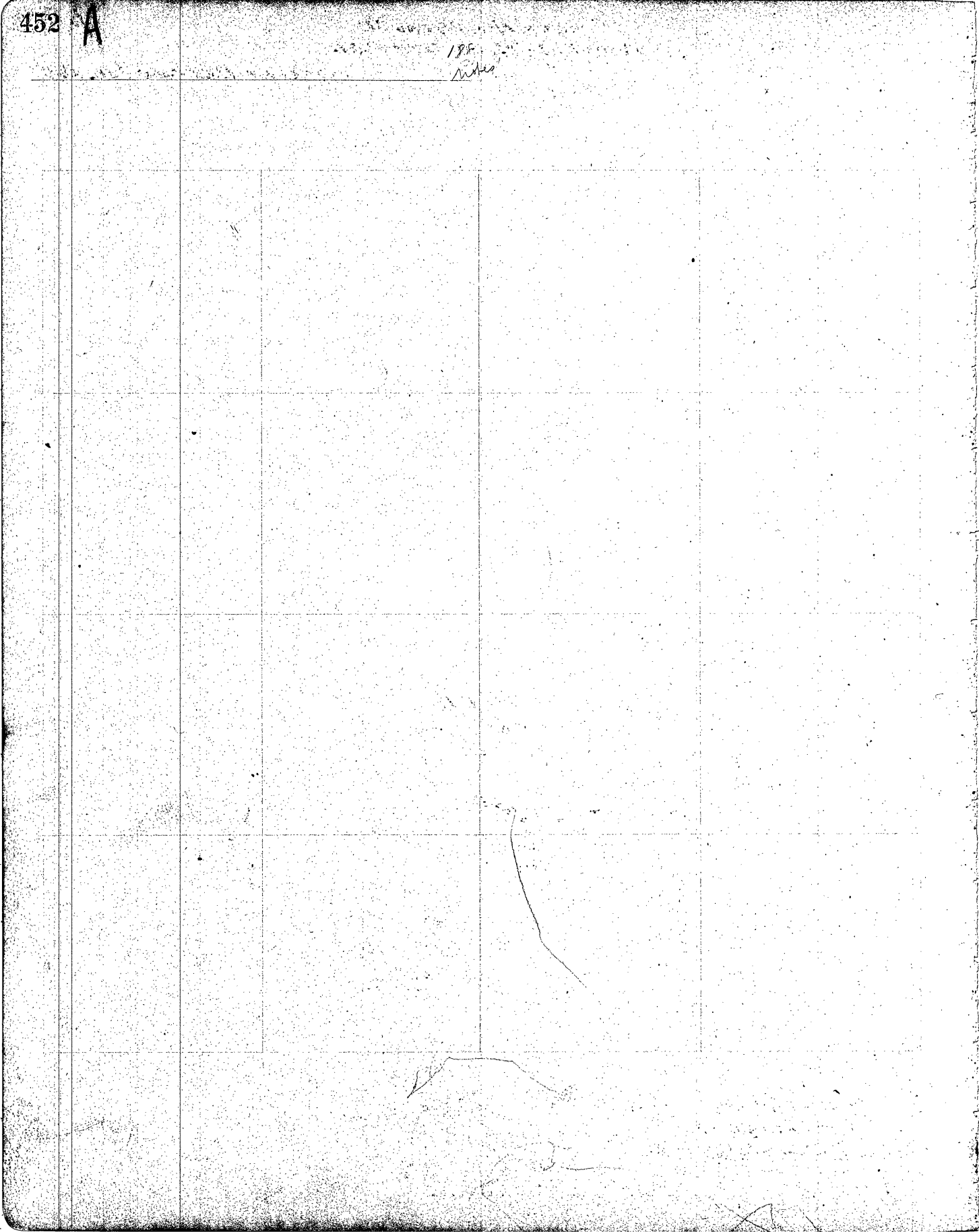
The marks are mostly gone from the old B.T. stumps, but I remember them years ago when they were plainly marked. I mark up new bearing trees as follows: Jack Pine 6 $26^{\circ} 16' W$ 128.55 feet. Oak Stump 5 $58^{\circ} 10' W$ 42.81 feet to tack drive in a spot on each tree at 10° variation.

11
33

At 10876.86 temporary witness corner, run east 61.64 feet to 10932.50 then south 73 feet to true witness corner. Correcting back. At hub 3148.86 we chain 17.85 feet east to hub, 3166.71 then south 21.15 ft. where we drive a $3 \times 3 \times 36$ inch oak post for the true corner to sections 31 and 32, on south side of twp. 134, rge. 29, and make new bearings as follows. Oak 6 $59^{\circ} 43' W$ 49.40 ft. to tack. Oak 6 $54^{\circ} 38' E$ 38 feet. to nail drove in the tree which holds up Peter Jensen's gate.

Recorded August 1st 1912.
John W. C. Co. Surveyor Cass Co. Minn

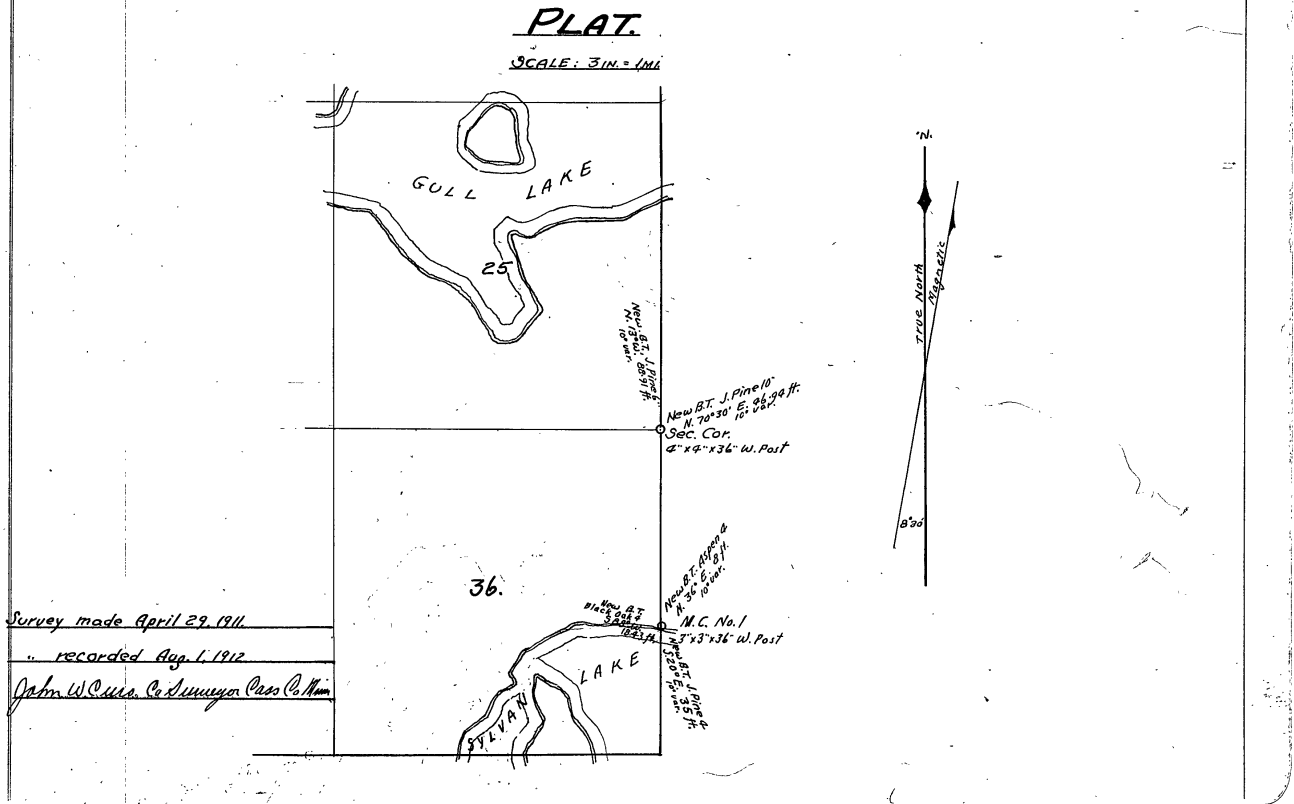
188
miles



Field notes of the survey of a part of township no. 134, range no. 30, w. 5th principal meridian through sections 25 and 36, as made by John W. Curo, County Surveyor of Cass County, Minn. Apr. 29th 1912. John W. Curo and Everett Hines. We go to meander corner no. 1, of twp. 134-30 on north side of Sylvan lake, and on the east side of sec. 36, where govt notes call for a stake and the following bearing trees. Norway Pine 18 N 73° E 81 links (= 53.46 feet) Norway Pine 16 S 47° 30' W, 13 links (= 8.58 feet) We find the stump of the N.W. tree standing plainly marked and the body of east tree down plainly marked, we set the true meander post by flat chain from face of old stump, after which the trees stand perfect for course and distance, only the 18 inch old bearing tree stands S 73° E, instead of "N. 73° E" the original surveyor evidently made a mistake in recording the course of the easterly bearing tree, as we find the point of the old original stake in the ground at the exact point, at which we set our new stake, we drive a 3"x3"x36 inch oak post for the true corner with new bearings as follows, Jack Pine 4 S 20° E 4.35 feet to tack heads. Black Oak 4 S 88° W 18.43 feet to tack head. Aspen 4 N 36° E 8 feet to nail head, at 10' mag. var. compass line, plumb bob chain.

Going to the corner of sections 25 and 36 on the east side of township 134, range 30, govt notes call for a stake and the following bearing trees. Pine 8 N 25° W 8 links (= 5.28 feet) Pine 8 N 70° E 15 links (= 9.90 feet) Pine 8 S 31° E 7 links (= 4.62 feet) Pine 7 S 52° W 24 links (= 15.84 feet) We find the S.E. tree standing green plainly marked, also find the S.W. tree dead and down but plainly marked. We find the stump of the N.E. tree plainly marked "B.T." and we find the roots and some figures of the N.W. tree. We set the corner by flat chain from face of figures of the N.E. & S.E. trees after which the position of the other two trees check out perfect for course and distance at 10' var.

We set a 4"x4"x36 inch oak post for the true corner with new bearing trees as follows. Jack Pine 10 N 70° 30' E 46.94 feet to a nail head. Jack Pine 6 N 13° W 88.91 to a tack head at 10' variations.



SURVEY RECORD No. 190.

Field notes of the survey of a part of township no. 138 N, range 138 W, 5th principal meridian through sections 26-27-34 and 35, as made by John W. Curo, County Surveyor of Cass County, Minn.

July 15th 1912. John W. Curo transitman, Chas. Coate assisting Curo in chaining perfect plumb hot line, Harold Coate and Mark Coate axmen; we use a A. & B. new transit and a 300 Chicago steel tape.

At the $\frac{1}{4}$ corner between sections 27 and 34, government notes call for a stake and the following bearing trees. Black Pine $5 \text{ N } 22^{\circ} \text{ E } 13$ links. Black Pine $6 \text{ S } 52^{\circ} \text{ E } 16$ links.

We find an old square hub and tack, set by me from both old bearing trees, for the true corner, over which I set the transit and put in new bearings as follows. S. stump $10 \text{ S } 53^{\circ} 24' \text{ E } 22.30$ feet. Stump $15 \text{ N } 76^{\circ} \text{ E } 40.30$ feet to tack heads, at $8^{\circ} 30'$ variation. The old government stumps are still standing. From this $\frac{1}{4}$ corner we run east on $8^{\circ} 30'$ variation. At 1600 feet set hub.

July 16th 1912. Geo. Robideau and Chas. A. Coan assisting us. Curo and Robideau chaining, we continue transit line east: at 2700 set hub. At 3409.70 set hub; at 3621.70 set hub; at 4420 enter swamp which bears N. & S. at 4330 leave swamp which bears S.E. & N.W. at 4480.70 set hub. at 4500 set stake; and enter open swamp which bears N.E. and S.W. variation changes to $8^{\circ} 25'$. at 4800 set stake in swamp about 60 feet north of sand lake. at 5100 set stake in swamp about 30 feet N. of sea wall of sand lake. at 5291 the true $\frac{1}{4}$ corner between sections 26 and 35 bears north 10.80 feet.

At this point government notes call for a stake and the following bearing tree. Black Pine $5 \text{ S } 5^{\circ} \text{ E } 194$ links (= 128.04 feet) we find the old bearing tree plainly marked but down, and from the root of the tree we chain $\text{N } 5^{\circ} \text{ W } 128.04$ feet, and find the old point of the government stake well preserved in the moss and water, we pull up the stake and put in its place a 2×48 inch galvanized iron pipe, capped on top and set in a bed of cement and sand for the true $\frac{1}{4}$ corner between sections 26 and 35, township 138 N, rge. 30.

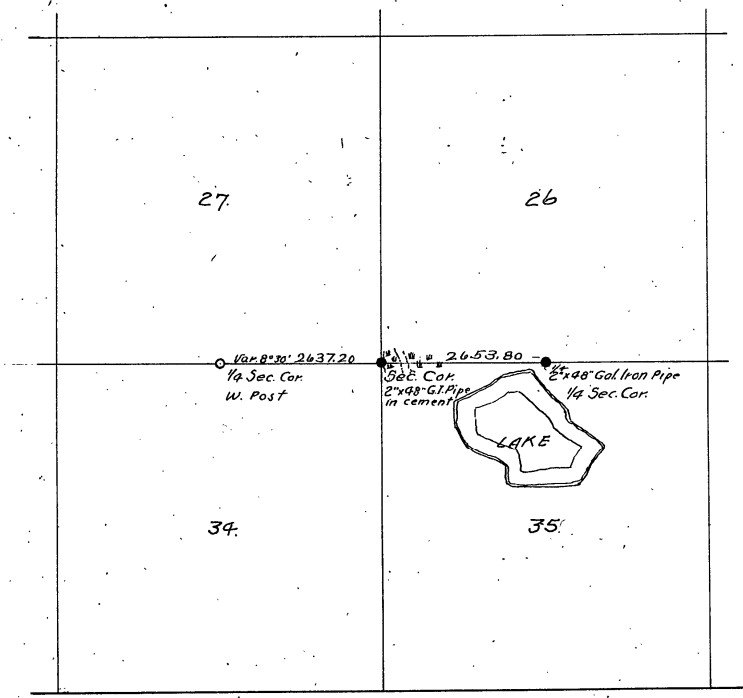
Correcting the line back, we find that at a point in our transit line 2637.20 feet east of $\frac{1}{4}$ between sections 27 and 34, the true corner to sections 26-27-34 and 35, bears north 5.38 feet, so that this line is straight, east and west; we set a 2×48 inch galvanized iron pipe, capped on top, in a bed of cement and sand, for the true corner to secs. 26-27-34-35, township 138 N, range 30, W, 5th P.M. from which the stumps of the old bearing trees check out for course and distance.

Recorded August 1st 1912.
John W. Curo, Co. Surveyor Cass Co. Minn.

Sec.	Cont'd On Page	Book
26	"	"
27	"	"
34	"	536 " A"
35	"	"

PLAT
SECS. NOS. 26, 27, 34 AND 35
TWP. 138, R. 30, 5TH P. M.
SCALE: 3IN. = 1MI.

SURVEY RECORD NO. 190.



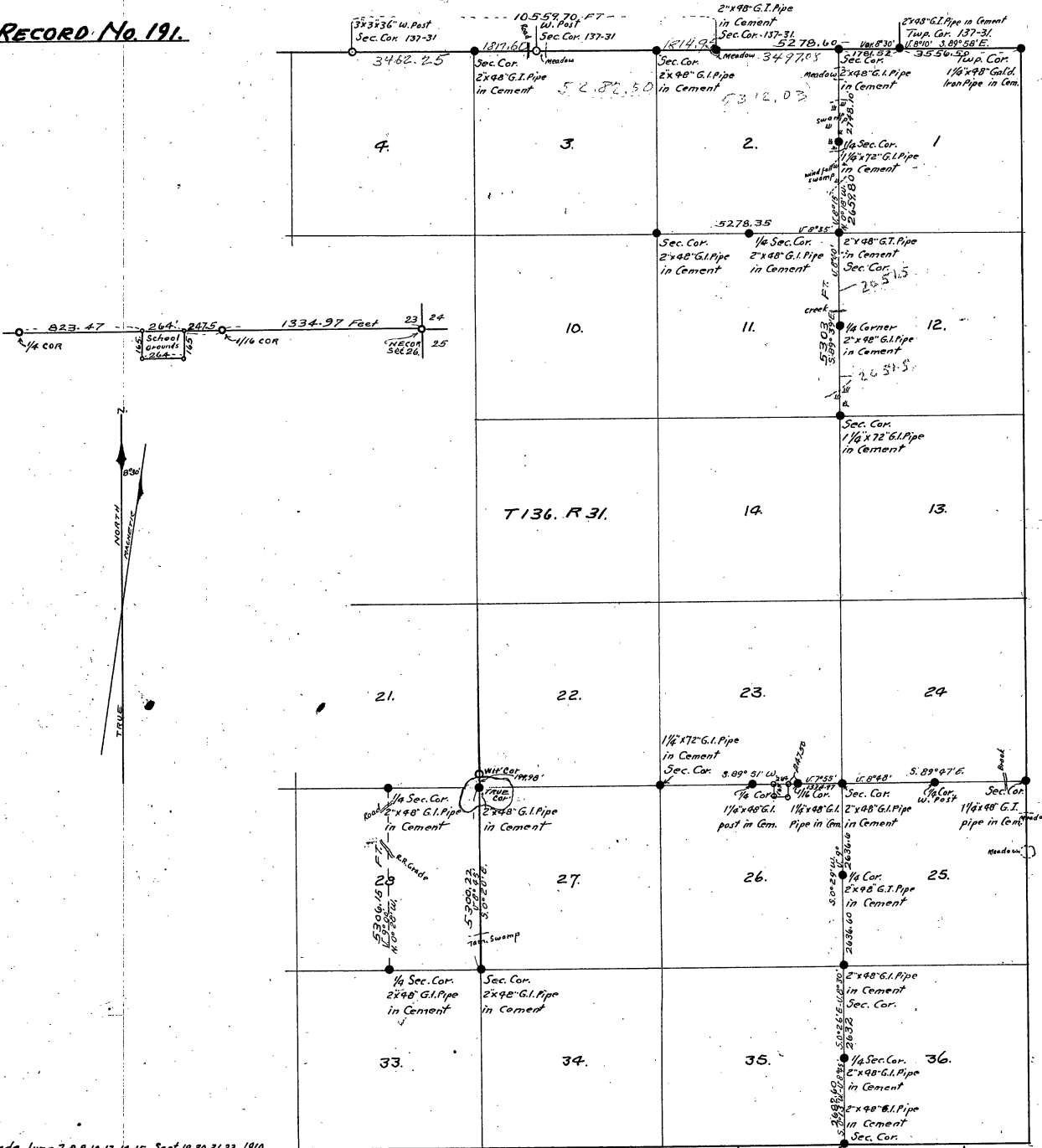
Survey Made July 15-16 1912.
recorded Aug. 1st, 1912.
John W. Cuss, Co. Surveyor Cass Co. Minn.

Sec 26 Cont'd On Page	Beon
" 27	"
" 34	536 7A
" 35	"

PLAT.
SECS. Nos. 1, 2, 3, 4, 10, 11, 12, 13, 14, 21, 22, 23, 24, 25, 26, 27, 28,
33, 34, 35 AND 36, T. 136, R. 31, 5TH P. M.

SCALE: 2 IN. = 1 MI.

SURVEY RECORD No. 191.



Survey made June 7, 8, 9, 10, 12, 14, 15, Sept. 19, 20, 21, 22, 1910

Oct. 3, 4, 5, 6, 7, 9, 10, 11, 12, 17, 18, 19, 20, 1911

Survey Recorded Aug. 1st 1912

John W. Curo, Co. Surveyors Cass C. Minn

Sec	Cont'd On Page	Book
1		
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SURVEY RECORD No. 191.

Field notes of the survey of a part of township no. 136, N., range 31, W., 5th principal meridian, through sections 1-2-3-4-10-11-12-13-14-21-22-23-24-25-26-27-28-33-34-35 and 36, as made by A. W. Moulster, Deputy County Surveyor of Cass County Minnesota, examined, approved and recorded by John W. Curo, County Surveyor, Cass County Minnesota.

June 7th, 1910. A. W. Moulster transitman, John Jewell and W. F. Wenholz apmew. Peter Nelson and Carl Nelson chairmen.

At the corner to sections 23-24-25 and 26, T. 136, R. 31, found the NE bearing tree only a but the B.T. was plain, from which I set a stake for the true corner and run south at 84° 5' 10" set hub on hill. At 2651 I hit a stake set by Wm. H. Hallett for the 4 corner between sections 25 and 26.

Setting the transit on Hallett's stake I run south by back sight on section corner. at 391.80 set hub, at 1210.20 hub on hill. at 2622.20 the true corner to sections 25-26-35 & 36, sets west 44.5 feet. Wenholz said he remembered the marks on the S.E. B.T. four years ago, but it is now badly burned. Chopping into the S.W. tree I find the B.T. plain and set the corner from the above two bearing trees, the others are gone.

Setting on corner 25-26-35 & 36, I run south 8° 30' variation at 936.50 on hub on hill. at 1838 hub each side of swamp. at 2437.20 hub on hill. at 2632 the 4 cor. between sections 35 and 36 sets east 19.75 feet. I found rotted Aspen stump, chopped in and found B.T. Sarge W. P. stump burned and tipped over but no marks to be found as it was burned to much. I set the 4 corner from S.W. to B.T.

June 8th, 1910. A. W. Moulster, Peter Nelson, Carl Nelson, W. F. Wenholz and John Jewell

Correcting the line between sections 25 and 26 - south half. Correct the line between sections 35 and 36 - north half. Setting on 3X3X24" oak tree, being the 4 corner between sections 35 and 36 I run south on 8° 45' variations, set up at 134.50 on hill. at 1452.50 set hub on hill. at 2652.60 the true S.W. corner of section 36 and S.E. corner of section 35, T. 136, R. 31 sets west 9.80 feet. Found an Aspen standing about N. 70° W. plainly marked B.T. Found three other rotten stumps, but only the N.E. & W. checking for measurement. none of them checking for courses. I set a pin by a proportionate measurement. Aspen 14 plainly marked B.T. bears N. 67° 15' W. 15.20 feet. Rotten Aspen stump 14 - no marks - bears north 88° E. 11.80 feet. Old Aspen stump 14 - not marked - bears south 12° E 19.80 feet, Aspen stump 10 not marked - bears S. 59° W. 3.30 feet. I then set a 3 1/2 X 3 1/2 X 24" oak stake marked 21

25-36-1-2. We correct the line between the S half of sections 35 and 36.

I did not call the line between sections 25 and 26 correct on account of Hallett's 4 post. I only find one stump there, rotten but checking - his stake is not in line, nor in the center of the mile, being about 22 feet to far east and 15 feet to far south. John Jewell says Hallett set the stake from two rotten stumps and it may not be correct. I passed this up for the present.

June 9th, 1910. A. W. Moulster transitman, John Jewell and Jens Sorenson apmew. Peter Nelson and E. H. Groff chairmen.

Going to the corner of sections 21-22-27 & 28, T. 136, R. 31, Groff showed me the N.W. bearing tree of the witness corner, which he said was plainly marked, when Hallett surveyed a few years ago. I found the old blaze but no mark and set a stake by measurement and courses from that B.T. and found the N.E. stump which check out for course and measurement, but was nearly all burned away. Setting the transit on W.C. I run S. on 8° 45' variations. I set a hub on the south side of the swamp and in the wagon road. The stadia measurement from W.C. to hub was 7.70 feet. 476.60 hub on hill. at 1001.20 hub at 1100,

SURVEY RECORD No. 191

1/4 27-28 (cont) enters small meadow, at 12.50 leave meadow, at 1648.45 hub. at 2000.80 hub. at 2020 cross wire fence - east and west. at 2700 we hunt for 4 corner - nothing to be found. At 2673 hub. at 3254.70 hub. at 3700 enter W.W. end of small lake, N. and S. at 3900 leave lake 4285.40 hub. at 4285 enter tamarack swamp. at 4703 feet Hicks' corner, 2700-2800-3300-3400 sets east 3300 feet. The above mentioned "Hicks' corner" is a corner that Sorenson and Jewell says Hicks, Cur's deputy, set four or five years ago when he was surveying the road there, which runs south one mile and west one-half mile. Sorenson says Hicks did not find the bearing trees, and Sorenson also says Hicks did find the bearing trees, can't depend on what Sorenson says. The stake is evidently where Hicks put it.

21-22-27-28 W.P. Run S. June 18th, 1912. A.W. Moulster transitman, John Jewell and Jess Sorenson attend. E.H. Graff and Peter Nelson chainmen. Setting transit on W.C. sections 21-22-27+28, T. 136, R. 31, I get the distance across the lake (south) by right angle triangulation west 286.20 feet, thence south 797.20 feet, thence 286 feet. Length of line between W.C. 21-22-27+28 and corner to sections 27-28-33+34, is $797.20 + 4703 = 5500.20$ feet. Length of line between the two corners is $5500.20 - 199.98 = 5300.22$ feet.

21-22-27-28 Correcting at 5500.20 Hicks corner to 27-28-33-34 sets east 33 feet. Station 00 (770) sets east 4.77 feet. 476.60 sets east 7.63 feet. 1000.20 sets east 10.77 feet. 1648.45 sets east 14.66 feet. 2000.80 sets east 16.78 feet. at 2000.80 the 4 corner sets 5.3 feet south and 16.50 feet east. I set a stake for 4 post, not to be exactly right. 2673 sets east 20.81 feet. hub 3254.70 sets east 24.30 feet. 4285.40 sets east 30.58 feet.

1/4 27-28 At the corner to 27-28-33+34, T. 136, R. 31, I pull up Hicks stake and put in a 3 1/2 x 3 1/2 x 30" Tamarack stake, marked "27-28-33-34, with bearings as follows. Norway Pine 18 S 17° 43' E. 45.72 feet. W.D. & S. 70° W. 121.50 feet. At 21-22-27-28, T. 136, R. 31, I set a corner as follows. setting transit on W.C. and foresighting to corrected hub no. 00 on S. side of lake. I set an oak post 4x4x60, a distance of 199.98 feet S. of W.C. I also mark the N.W. bearing tree for W.C. B.T. Hallett's corner to 21-22-27-28 which he set when he was surveying the road, sets 6 feet west and 4 feet S. of my true corner. I set an 3x3x16 oak stake marked "W.C." for the true witness corner.

27-28-33-34 We walked to the 4 corner between sections 28 and 33, set by Hicks, govt notes call for N.P. 20 S 1° E. 18 links (= 11.88 feet). White Birch 6 N 60° 23 links (= 15.18 feet.) I cut one foot off of the top of Hicks stake and mark it 4 section. Setting transit on stake I find the old burned N.P. & white Birch stumps, which checked for measurements. And for courses stand N.P. 20 S. 3° 30' E. Birch N. 55° 30' E. at 9° variation. Then run north on 9° variation. at 400 feet, enter east side of clover field. at 1000.70 hub. 1005 cross wire fence. at 1100 cross wire fence. at 1300 cross pole fence. at 1380 cross pole fence. at 1902.80 hub. at 3200 enter frog pond. at 3325 leave same. at 3400 set pin 5 feet N. of center of old grade which bears S.E. and N.W. at 3552.50 set hub.

21-22-27-28 June 12th, 1910. I look up the records and field notes for the 4 corner between sections 25 and 26, T. 136, R. 31.

1/4 25-26 June 14th, 1910. E.H. Graff, George Jewell and J. C. Jewell, apmen and chainmen. A.W. Moulster transitman, we continue transit line N. through the center of sec. 28, T. 136, R. 31, which we left June 10th, 1910. at 3600 set pin. at 4327 set hub. at 4670 cross road, bearing N.E. & S.W. at 5280 the true 4 corner between sections 21 and 28 bears N. 26° 15' feet and W. 37.40 feet. Government notes call for Bl. Oak 11, S. 59° 30' W. 9 links (= 5.94 feet). Maple 10 N. 46° 30' W. 19 links (= 12.54 feet.)

Con line 28 1/4 21-28

SURVEY RECORD NO. 191.

44-21-25

Graff showed me the maple stump which he said was plainly marked when they cut the road out. He said it was a tree then. I also found the Bl. Oak stump cut low. I set the corner by measurement, measuring from where the B.T.S. were before cutting out. The stumps then stood as follows. courses taken from the hearts of stumps at 90 variation. I set oak stake 3x3x16 marked "28-21-1/4" in S. wheel track. Maple stump 14 N. 42° 6' W. 12.54 feet. Black Oak stump 15 S. 58° 5.94 feet.

correcting
N.P. 28
E. 28

Corrections for the N. and S. center line of sec. 28, at 5306.15 the 1/4 post between sections 21 and 28 sets W. 37.40 feet, we finish correcting the rest of the line south, which finishes the survey on this end of the town for the present.

44-25-26

June 15, 1910. Graff drives me to Wenholz to establish the 1/4 post between sections 25 and 26, T. 136, R. 31, where I decide the 1/4 stake set by W.H. Hallett is wrong. There is no sign of the S.W. bearing tree, and John Jewell said he did not remember of seeing any marks on the N.E. one. He said Hallett only found a stump; afterwards, John Jewell said Hallett found the government marks on the Northeast stump - can't depend on John Jewell.

Re chain
St. mill

Wenholz and I carefully chain the mile over again, using plumb bob, setting line stakes with transit. At 2640 hub: at 5269.30 true corner.

25-26-35-36

to sections 25-26-35-36 sets west 44.80 ft. At 2640 the 1/4 between sections 25 and

44-25-26

26 sets N. 5.35 ft. and west 22.40 ft. at which point I set an oak stake 3 1/2 x 3 1/2 x 10 inches "marked" 1/4-25-26 X", from which I set the following bearing trees at 90 var.

W. Pine 8 S. 42° 45' E 6.15 feet; W. Pine 12 N. 53° 3' E 6.105 feet. Hallett's corner sets 22.40 feet east and 15.50 ft. south. Graff then drives me to his house.

I arrange to go to Pine River in the morning.

1-2-11-12

September 19th, 1911. O. W. Moulster transitman, George Jewell chairman and

flagman, Herbert Wenholz apman, Frank Countryman apman. At the Cor. of

Secs. 1, 2, 11 & 12, T. 136, R. 31, Gov't. notes call for a post and the following

bearing trees: W. Birch 5 S. 74° C. 4 lks. (= 2.64 ft.), W. Birch 6 N. 50° W 10 lks. (= 6.60 ft.), Jack Pine 6 S. 20° 30' W. 20 lks. (= 13.20 ft.); Tam. 5 N. 29° 30' C. 21 lks. (= 13.86 ft.) Countryman shows me the old stumps he saw plainly

1-2-11-12
Rem N 8 1/2 10

marked years ago, and says the marks were burned off this spring. We find the stake which checks out with the stumps. Hicks and

8 1/2 10

Hallet used this stake for the true corner to Secs. 1, 2, 11 and 12, from

44-1-2

which we run N. on 8° 15' var. at 1138.70 set hub on raise. @ 1400 a Tam. wind-fall swamp bearing N.E. and S.W.; @ 2100 leave swamp; @ 2163.30

set hub; Variation changes to 8° 10'; @ 2250 enter swamp; @ 2640 ft.

set stake. at the 1/4 Cor. between Secs 1 & 2 Gov't. notes call for a

stake and the following bearing trees: Tam. 8 N. 76° W. 9 lks. (= 5.94 feet), Tam. 12 S. 55° 30' C. 24 lks. (= 15.84 ft.) We find both B.T.S.

plainly marked; also the old Gov't. stake 5 ft. long, in the mud, marked "1/4 Section" on two sides. I cut off the top 2 1/2 ft. and

set stake for transit. The bearing trees check, except the North one, being 2° too far South. The bearing trees are out by the roots, lying their full length in the mud. I chopped them off

and stand them up.

at 2659.80 ft. N. the 1/4 post between Secs. 1 and 2 sets W. 14.05 ft.

SURVEY RECORD No. 191.

Wednesday, Sept 20, 1911. Same crew. From the $\frac{1}{4}$ Cor. between Secs. 1 and 2, 136-31, run north on $8^{\circ}38'$ var. At 636.60 hub, @ 1260 leave swamp, @ 1320 hub, @ 1529 hub, @ 1700 enter E. edge of Hinch's meadow, @ 2100 leave same, @ 2299.10 hub. At 2770 hub in ditch on W. side of E & W graded road. At the Cor. of Secs. 1 and 2, on the N. side of T. 136, R. 31, the Govt. notes call for a post and the following bearing trees: dead pine $12 S. 12^{\circ} W. 128$ lks. (= 84.48 ft.), Asp. $8 S. 19^{\circ} E. 207$ lks. (= 136.62 feet) All are gone and we quit this line for the present.

September 21, 1911. Same crew. From Cor. to Secs. 1, 2, 11 and 12, T. 136, R. 31, run South on $8^{\circ}40'$ var. At 300 set hub at Countryman's; @ 1200 hub, @ 2000 hub, @ 2130 enter creek bottom, @ 2250 cross creek, N.E. and S.W., @ 2350 leave creek bottom, @ 2640 hub. Find no trace of the $\frac{1}{4}$ Cor., but find the stake set by Hallett. No bearing trees check and we continue South. At 3000 set hub, @ 3992.35 set hub, @ 4575 enter open swamp, N.E. and S.W., @ 4800 set stake.

September 22, 1911. Same crew. Continue South. At 530.3 the Cor. to Secs. 11, 12, 13 and 14, sets $E. 60.80$ ft. At the Cor. to Secs. 11, 12, 13, 14, T. 136, R. 31, Govt. notes call for a stake and the following bearing trees: -
Tain. $14 S. 45^{\circ} E. 9$ lks. (= 5.94 ft.), Tain. $16 S. 36^{\circ} W. 21$ lks. (= 13.86 ft.), Tain. $11, N. 31^{\circ} E. 47$ lks. (= 31.02 ft.) Tain. $10 N. 10^{\circ} 30' W. 68$ lks. (44.88 ft.) Wenholtz finds the first B.T. being a stub standing S.E. and broken off at the stump, marked plainly "R. 31 W. S. 13" All other marks probably burned. We find the N.E. B.T. down and partly burned, plainly marked "S. 12" We find the stump of the N.W. tree, which checks. We set corner from S.E. stump @ $8^{\circ} 30'$ var., after which the other stumps check for course and distance. We drive a $3 \times 3 \times 24$ Tain. post for the true corner to Secs. 11, 12, 13 and 14. Correcting N.; @ hub 2640 the $\frac{1}{4}$ Cor. between Secs. 11 and 12 sets $S. 11.50$ ft., then $E. 30.40$ ft., where we place the true $\frac{1}{4}$ corner.

P.M. we set a 2×48 inch galvanized iron pipe, capped on top, set in a bed of cement and rock, for the true cor. to Secs. 1, 2, 11 & 12, T. 136, R. 31, and at the $\frac{1}{4}$ Cor. between Secs. 11 & 12, T. 136, R. 31, we set a 2×48 inch gal'd. iron monument in a bed of cement and rock for the true $\frac{1}{4}$ corner; the monument has a gal'd. iron top.

October 3, 1911. A.W. Moulster transitman, John Jewell and Frank Countryman axemen, chainmen and ironmen. At the $\frac{1}{4}$ Cor. between Secs. 1 and 2, T. 136, R. 31, we set a $1\frac{1}{4}$ inch gal'd. iron pipe 6 feet long, set in cement and rock, iron rod through pipe 4 ft. from the top end, threads on bottom end, no threads or cap on top.

P.M. Herbert Wenholtz assistant. At the Cor. to Secs. 11, 12, 13 and 14, 136, R. 31, we set a gal'd. iron pipe $1\frac{1}{4}$ inch \times 6 ft. long, set in cement and rock, has no iron cap and sets in swamp 16 inches above the ground.

October 4, 1911. A.W. Moulster transitman, John Jewell, Herbert Weholz, Frank Countryman axemen and chainmen. To put in the corners of Secs. 1 and 2, on N. side of T. 136, R. 31, we begin as follows: At the S.E. Cor. of T. 137, R. 31, I find a stake previously set by Curo for the true Twp. Cor., where his notes call for the following bearing trees, @ $8^{\circ} 41'$ var.; Elm. $8 S. 41^{\circ} 42' E.$

SURVEY RECORD No. 191.

Twp. 31-36
 Sec. 31-36
 1/9/10
 35-36
 So. bearing 36
 S. 35-36
 137-31
 embank. W. of T
 Twp. N. 31-36
 136-31
 1/4 S. Sec. 33
 137-31
 36-76 33
 137-31
 S. 33-34
 137-31
 So. 33-34
 137-31
 cont. SE. 36
 to 34
 137-31
 Dist. Twp. 137
 SE. 33
 N. 31-2
 N. 31-2-3
 N. 31-2-4

27.18 ft., ash n. 45° 51' W. 49.34 ft., We find both bearing trees which check out correct. Setting over corner Iron west, down the road, @ 8° 40' var. At 999.70 set hub, @ 1782 hub, temporary corner to Secs. 1 and 2, T. 136, R. 31. At 3600 set hub in centre of road, @ 5200 hub in road, var. reads 9° 10'. At S.W. Cor. of 36 and S.E. Cor. of Sec. 35, Twp. 137, R. 31, Govt. notes call for a stake and the following bearing trees: Pine 10 n. 85° 30' E. 19 lks. (= 12.54 feet), White Birch 7 n. 12° 45' W. 51 lks. (= 33.66 feet.) We find the pine cut about 10 ft. long, plainly marked but grubbed out and lying S. of the road, Mr. Hinch and Mr. Countryman both agree as to where the post set as established by Curo from the old Govt. B.T.'s, at which point I set a square hub for the corner. At a point 5278.60 ft. W. of the S.E. Cor. of T. 137-31, the Cor. to Sec. 35 and 36 sets S. 5.25 feet.

Then continue W. on same line; 5400 set stake; at 5600 set stake, 5800 hub 20 feet N. of N. wheel track W. road. At 7093.60 hub in front of Hinch's house for temporary corner to sec. 2 and 3, T. 136, R. 31; at 10100 set hub.

Oct. 5th, 1911. continue west. same crew. In Curo's notes I find that he ran this same line, beginning at the S.W. corner of 36 and running west, he did not find any government corners until he got to the S.W. of sec. 33.

He found both B.T.'s stumps plainly marked. The run for the S.W. corner of 36 to the 4 on the S. side of 33 being 0.80 for a foot long. He then established the S.W. corner of 34, and put in new bearings at 8° 46' variation: Birch S. 87° 54' E. 31.60 feet; Birch S. 2° 8' W. 44.49 ft. to tack heads at 10200 E. edge of meadow; @ 10560.60 ft. W. Hallet's stake sets south 3.40 ft. (S.W. Cor. 35) @ 10600 S. side of sea wall, @ 10800 new road, @ 11100 hub in road, @ 11200 W. side slope to slough, @ 11500 set pin 50 ft. E. of water's edge, @ 11700 pin in line with W. water edge, @ 11750 high land, @ 12800 small meadow, @ 13000 hub in centre old road, N. C. & S.W., @ 13800 hub on hill, @ 14883.20 hub. At the S.W. Cor. of Sec. 34, 137-31, I find the S.W. bearing tree which was put in by Curo in his survey of 1909. The S.E. B.T. and the Cor. stake have been grubbed out. I set the Cor. from the S.W. B.T. and drive a 3x3x16 inch birch stake for the true Cor. and put in new bearings as follows: white birch 4 S. 51° 57' E. 58.35 ft., same var. as Curo's, 8° 46'. At 15838.30 ft. W. the S.W. cor. Sec. 34 sets north 0.15 of a ft., my chain from S.W. corner 36, T. 137, R. 31.

My chain from the S.W. cor. of 36, T. 137-R. 31, to the S.W. Cor. of 34, T. 137, R. 31, is 15838.30 ft. - 5278.60 ft. = 10559.70 ft. Curo's chain of the same line equals 10560.64 ft. or less than 1 ft. difference. This proves that I have set the corners correctly. I establish the Cor. to Secs. 1 and 2 on N. side of Twp. 136, R. 31, at a point on the true Twp. line 1781.52 ft. W. of the S.E. Cor. of Twp. 137, R. 31. We establish the corners to Secs. 2 and 3 and to Secs. 3 and 4 on the north side of Twp. 136, R. 31 at a point

SURVEY RECORD No. 191

on the South boundary of Twp. 137, R. 31 by proportionate measurement between the S.E. Cor. of Sec. 35 and the S.W. Cor. of Sec. 4, Twp. 137, R. 31.

October 6, 1911. We set a square hub for the cor. to Secs. 34 and 35 on the S. side of Twp. 137, R. 31. Correcting lines between the N. $\frac{1}{2}$ of Sec. 1 and 2, T. 136-R. 31 at a point on my transit line 2748.10 N. of the $\frac{1}{4}$ Cor., the Cor. to Secs. 1 and 2 sets West 26.94 ft. We correct the line South.

Setting on the S.W. Cor. of Twp. 137, R. 30, run E. on 8° 10' Var. At 1200 ft. hub in centre of road, @ 3556.50 E. the N.E. cor. of Twp. 136, R. 31, sets S. 2 ft. This corner was previously established by Curo.

October 7th, 1911. A.W. Moulster, Frank Countryman and Herbert Wenholy. We set gal'd. iron pipe 2x48 inches, capped on top with rod through the bottom, set in concrete and stone at the following corners: - Cor. to Secs. 1 and 2; 2 and 3; 3 and 4 on N. side of Twp. 136-R. 31; and at the Cor. to Secs. 35 and 36 and the S.E. Cor. of 36 of Twp. 137, R. 31, the last being the S.W. Cor. of Twp. 137, R. 30.

October 9th, 1911. A.W. Moulster, F. Countryman and H. Wenholy. Beginning at Cor. to Secs. 1, 2, 11 and 12, Twp. 136 R. 31, run West on 8° 35' Var. At 600 ft. hub in road, @ 2640 ft. hub in road, temporary $\frac{1}{4}$ Cor. between Secs. 2 and 11. At 5280 set hub. At the Cor. to 2, 3, 10 and 11 the old field notes of Deputy Co. Surveyor N.W. Hicks, C.E., reads as follows: "June 17, 1905. Moose Lake Road Survey. Ed. Brownell and Bugzell, Sparks and Brownell: Cor. to Secs. 2, 3, 10 and 11. This Cor. was lost and John Usher reset it by running N., S., E. and W. from known corners and intersected plain stone with X for Cor." We hunted and P.E. Countryman found the stone on the S. side of road, 1 ft. South of graded ditch. It was well buried and roots grown all around it so it has not been moved for years. No one knew anything about it until I told them that there was a stone marked "X" for Cor. As John Usher was Deputy Co. Surveyor of Cass Co., and evidently established the Cor. correctly. I used it as the true Cor. The stone is about the size of a nigger's head. At 5278.90 W. the ~~Cor. to 2, 3, 10 and 11 sets 8.10.76 ft.~~ At 2640 the $\frac{1}{4}$ cor. set near 2 and 11. sets East 0.55 of a ft. and South 5.38 ft. where we placed the true $\frac{1}{4}$ Cor. At 2, 3, 10, 11, a tel. pole sets $7\frac{1}{2}$ ft. South and the corners line with a road running north.

We set a 2x48 inch gal'd. iron, cap on top and having a rod through the bottom, well into the ground in a bed of concrete and stone, flat stone corner of Secs. 2, 3, 10, 11, and the $\frac{1}{4}$ Cor. between Secs. 2 and 11, T. 136, R. 31. At the Cor. to 2, 3, 10, 11 I place the rock which I found marked "X" in contact at the top of the filling around the pipe.

N. Bldg

1-2-3-4

S. on 34-35
137-31

N. on 1-2

SW Cor Twp

137-30

run E. 8° 10'

NE on 136-31

Iron N. Side 1-2

" " 2-3

" " 3-4

Iron S. on 35-36

" Twp. 137-31

" SW Cor 137-30

1-2-11-12

run W. 8° 35'

1/4 2-11

2-3-10-11

2-3-10-11

Planning

2-3-10-11

1/4 2-11

1/4 2-11

Iron 2-3-10-11

Iron 1/4 2-11

SURVEY RECORD No. 191.

17-2-11 The "x" showing plainly at the s. side of the pipe. At the 1/4 corner between 2 and 11 there is a two inch rock lying N.W. at N. side of grade ditch. Rock marked "B.T." evidently done by Hallett, P.E. Countryman witness to setting iron monuments.

23-24-25-26
Nov 7 1855
17-23-26 Oct. 10, 1911. A.W. Moulster, H. Wenholz and F. Countryman. Setting on corner to sections 23, 24, 25 and 26, T. 136, R. 31, set by A.W. Moulster last year, run W. on 7° 55' variation. At 400 hub in road; at 1320 hub temp. 1/4 corner; at 1600 hub in front of school house; at 2640 hub temp. 1/4 corner between 23 and 26, T. 136, R. 31, where government notes call for Elm 7 N. 50° W. 34 links (= 22.44 feet) Elm 8 S. 1° E 21 links (= 13.86 feet). We find a 9 inch Elm standing S. of the road about 30 feet, marked, "B.T. S. 26," all the marks being on the upper and only blaze.

This is the way Hallett always marked his corners, i.e. upside down. Measuring the growth I find it two inches. This leaves the tree a diameter of 5 inches when marked. No blaze or B.T. at the Bottom. As this tree does not correspond with the government size, and is not marked as the govt marked their trees, I do not use it. The marks and growth look to be about 8 or 10 years old. We continue W., at 3100 hub. at 3700 hub 30 feet E. of swamp N.W. and S.E. Road runs N.W. around swamp. at 3730 enter swamp. at 5200 stake. at 5339.90 the corner to sections, 22, 23, 26 and 27 sets S 13.91 feet. I find the N.W. and the N.E. old bearing trees, from which I set the true corner by measurement, and find the old government stake.

22-23-26-27
D
23-24-25-26
Nov 8 1855
17-24-25-26
E on 24-25
17-24-25
Oct 11, 1911. Same crew. Beginning at 23-24-25 and 26, T. 136, R. 31, run E. 8° 48' var. at 700 hub on hill. at 2600 hub on hill. at 2640 temporary 1/4 gone. at 4760 cross stony brook N. and S. at 5280 hub N. of wagon road. Temp. cov. to sec. 24 and 25. at 5248.50 feet E. stone in road new-
ter sets S. 19.85 feet. The stone being positively identified by Ole Munsen, and his brothers, as the true corner to sections 24 and 25 on the east side of T. 136, R. 31. John Nelson also identifies this corner. Correcting back at hub 2640 we run W. 15.76 feet, then S. 9.92 feet, at which point I place the true 1/4 corner between sections 24 and 25. Wm. H. Hallett also established this stone as the true section corner.

Iron 23-24-25-26
Iron 1/4 25-26
Iron 25-26-35-36
Iron 1/4 35-36
Iron South on 35-36
October 12th, 1911. At the corner to sections 23, 24-25 and 26, and at the 1/4 corner between sections 25 and 26, and at the corner to sections 25, 26-35 and 36, and at the 1/4 corner between sections 35 and 36, and at the S.W. corner of sec. 36, being the S.E. corner of section 35, all in T. 136, R. 31, we take up the wood stakes and put in their place a 2 x 48 inch galvanized iron pipe capped on top with rod through bottom, set in a bed of concrete for the true section corners and quarter corners.

Iron 22-23-26-27
Iron 21-22-27-28
Iron 27-28-33-34
Iron 1/4 21-28
Iron 1/4 27-33
October 14th, 1911. F. Countryman, H. Wenholz and A.W. Moulster. at the corner to sections 22-23-26 and 27, we take up the wood hub and put in its place a 1 1/2 galvanized iron gas pipe 6 feet long, no cap, no pin through bottom, set in a bed of concrete, for the true sec. cor.

At the corner to sections 21-22-27 and 28, sections 27-28-33 and 34, and at the 1/4 corner between sections 21 and 28, and at the 1/4 corner between sections 28 and 33, T. 136, R. 31, we take up the wood stakes set by me, and put in their place a 2 x 48 inch galvanized iron monument, capped on top, rod through bottom and set in a bed of concrete and stone, for the true 1/4 corners and sections corners.

17-23-26
Oct 18th 1911. At the 1/4 corner between sections 23 and 26. we find that

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at hub 2640 the line $\frac{1}{4}$ sec. 29.95 feet west and 6.25 feet south.

1/4 23-26

To put in the $\frac{1}{16}$ corner we begin at hub 1320 W. of the N. E. corner of 26 and run west 14.97 feet, then south 3.48 feet where we place the $\frac{1}{16}$ corner, then to survey school house site for school district we run West 247.50 ft, then south 165 feet, then West 264 feet, then North 165 feet, then East along sec line 264 feet to the place of beginning. To put in the $\frac{1}{4}$ corner between sections 23 and 26 we drive a square hub one-half inch below ground, and cover it with dirt. A stump bears N.W. about 2 feet. Setting on corner sections 24 and 25 T. 136, R. 31, runs S. on range line at $8^{\circ}30'$ variation. At 900 enter meadow N. E. and S.W. at 1500 hub. at 1850 enter open meadow.

E $\frac{1}{16}$ hub 23-26
1/4 23-26
E cor 24-25
24-25
U 8'30"

October 19th, 1911. Same crew. At 2000 center Stony Brook E. and W. At 2500 leave meadow. at 2310 hub 2 feet S. of rail fence. At 2638.50 the $\frac{1}{4}$ corner on E. side of sec. 25 bears W. 7.40 feet. Magnus Olson who lives on sec. 36, T. 136, R. 30, testifies as follows: At the N.E. corner sec. 25-136-31- he saw a spruce bearing tree about 15 years ago; also the old gov't stake, being pretty rotten then about 13 years old. James Canfield County Surveyor of Cass County surveyed from the E. to the N.E. corner of 25, where he also found the spruce B.T. and stake. Olson says that the present rock is at the place, where the stake previously stood." Ole Munsen certifies also that about 5 years ago a competent surveyor surveyed the E. boundary of 25 for a logging company, starting at the rock at the N.E. corner of 25 he ran south, finding no government $\frac{1}{4}$ he continued S to the S.E. corner of 25. He then set $\frac{1}{4}$ on E. side of 25." I find the above $\frac{1}{4}$ corner and it seems O.K. A surveyor put in a post marked " $\frac{1}{4}$ S." rock around the bottom. Taking all evidence into consideration the rock at the N.E. corner of 25, T. 136, R. 31 is correct.

1/4 E 25
E cor 24-25
E cor 24-25
1/4 E 25
E 25-36
E 1/4 25
24-25 E
OK

Oct. 20th, 1911. Same crew. at $\frac{1}{4}$ corner between sections 23 and 26, and the $\frac{1}{16}$ corner one quarter mile E. we take up the wood hub and put in each place a 1 $\frac{1}{4}$ inch galvanized iron pipe, 4 feet long - no caps - for the true cor.

1/4 23-26
N $\frac{1}{16}$ hub 23-26-27

At the N.E. corner of sec. 1, and the corner to sections 24 and 25 on the E. side of T. 136, R. 31, we pull up the hubs and put in each place a 1 $\frac{1}{4}$ inch galvanized iron pipe 4 feet long - not capped - for the true corners.

Iron NE on 1
Iron E 24-25

At the four corners of the school-house grounds just surveyed in sec. 26 we pull up the wood stakes and put in each place 1 $\frac{1}{4}$ inch galvanized iron pipe 3 feet long - no caps.

Recorded August 1st 1913.
John W. Cuss Co. Surveyors Cass Co. Minn.

Set	Cont'd On Page	Book
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SURVEY RECORD No. 192.

Field notes of the Survey of a part of Township No. 134 N., R. No. 30 W., 5th Prime Meridian through Secs. 1, 2, 3, 4, 5, 8, 9, 10, 11, 14, 15, 16, 21, 22 as made by A.W. Moulster, Deputy County Surveyor of Cass Co., Minn. Notes examined, approved and recorded by John W. Curo, County Surveyor of Cass Co., Minn.

April 5th, 1911. A.W. Moulster transitman, Clow and Bennett and Steve Collins axe and chainmen. We go to the 1/4 Cor. on the N. side of Sec. 3, Twp. 134, R. 30. where gov't. notes call for Sugar 18 N. 29° E. 20 lks. (= 13.20 ft.), Oak 4 S. 69° W. 38 lks. (= 25.08 ft.) We set the Cor. from the N. C. tree and run west on 8° 30' Var. Mr. Clow chain and flag. At 372.15 hub, @ 850 enter meadow, @ 1320 hub, temporary 1/16 corner, @ 2150 leave swamp, @ 2447 hub, @ 2637 Hallett's Sec. Cor. sets south. At 2640 set hub, temporary Sec. Cor., @ 2951.70 hub, @ 3964.85 hub, @ 3980 hub, temporary 1/16 Cor., @ 4200 pin.

April 6th, 1911. Continue west. Mr. Clow chain and flag. Steve Collins, Geo. Collins, W. C. Bennett, Frisky and Hemphill axemen. At 4500 enter swamp, @ 4650 enter mud Lake, @ 4800 pin on ice, @ 5250 leave ice, @ 5280 hub in swamp, temporary 1/4 corner, @ 5700 leave swamp, @ 6156.60 hub, @ 6473 enter small swamp, @ 6575 leave swamp, @ 6600 hub, temporary 1/16 corner, @ 6949 hub, @ 7800 pin, @ 7874.90 the corner to Secs. 4 and 5 sets south 28 ft. At the Cor. to Secs. 4 and 5 on N. side of 134-30, I find the old B.T. stumps from which I set a 1/2 x 1/2 x 10 inch hub for the true Cor. after which, @ 9° Var. old B.T.'s stand as follows: - W.P. stump 30 South 3° E. 9.85 ft. I mark new bearings as follows: - N.P. 7 N. 87° 30' E. 11.35 ft. At the 1/4 Cor. between Secs 3 and 10, the state has put in a 1/4 inch iron pipe for the true 1/4 Cor. which checks for measurement and course with both old B.T. Stumps. They have put in a new B.T. as follows: - N.P. 11 N. 54° 22' E. 35.60 ft. @ 9° Var. From 1/4 between 3 and 10 run West @ 9° Var. At 611.60 hub, @ 1320 hub, temporary 1/16 Cor., @ 1468.30 hub, @ 1600 enter swamp, @ 2200, 2600 pin in swamp, @ 2629.50 cross main north and South wagon road, @ 2640 hub, temporary Sec. Cor., @ 3000, 3600, 3800 stake in swamp, @ 3960 hub in swamp, temporary 1/16 Cor., @ 4200 leave swamp, @ 4209.80 hub, @ 4400 enter swamp, @ 5280 hub in swamp, temporary 1/4 Cor., @ 6000 pin in swamp.

April 7th, 1911. Continue West. Steve Collins, Henry Hemphill and William Frisky - axemen. Mr. Cole chain and flag. A.W. Moulster transitman. At 6126 hub in swamp, @ 6600 hub in swamp, temporary 1/16, @ 6900 leave swamp, @ 7181.75 hub, @ 7212 cross creek N. & S., @ 7220 enter swamp, @ 7658.70 back in tamarac log. Var. 9° 20', @ 7647 ft. W. Cor. to Secs. 4, 5, 8 & 9

SURVEY RECORD No. 192

sets N. 83.10 ft. at which point Emmett A. Cole and Henry Hemphill show me an old, tamarac stump which they say was plainly marked before the fire. I find all of the old bearing tree stumps burned, which check out for course and distance; I set a hub, 3 x 3 x 8 inches, for the true corner to Secs. 4, 5, 8 and 9, Twp. 134, R. 30, with new bearings as follows: -
 90° Var. Birch 3 N. 31° 40' W. 15.75 ft., Tam. stump 17 N. 66° 47' E. 17.94 ft.,

Beginning at the Cor. to Secs. 4, 5, 8 and 9, T. 134-R. 30, I run north, @ 90° 15' Var. At 200, 400, set stakes, @ 2600 set stake, @ 2640 set hub in burned swamp, temp. 1/4 Cor. at 3300 leave swamp, @ 3624.40 hub on hill, @ 3800 hub, @ 3960 set hub, temporary 1/16 Cor., @ 4836.25 set hub, @ 5467.55 the north Cor. to Secs. 4 and 5 sets East 2800 feet.

At the 1/4 Cor. between Secs. 4 and 5 I found the B.T.'s down but plainly marked. Correcting the N. boundary of Sec. 4, 134-30, Gov't. chain from 1/4 on N. Side Sec. 3, W. to N.W. Cor. of Sec. 4, is 7874.90 ft my chain and equals 7920 ft. Gov't. chain, being 45.10 ft short. At 2640 ft. equals 2625 ft. and 5280 ft. Gov't. ch. equals 5250 my chain. Hub 2640 goes East 15 ft and South 9.33 ft. where we place a stake for the true Cor. to Secs. 3 and 4. Hub 5280 goes East 30 ft. and South 18.66 ft. where we place the 1/4 Cor. on the N. side of Sec. 4. At 3960 we run E. 22.50 ft., then South 14 ft. where we place the 1/16 Cor. W. of the N.C. Cor. of Sec. 4.

Correcting the line between Secs. 4 and 5, Twp. 134, R. 30; @ a point 2624 N. of Cor. to Secs. 4, 5, 8 and 9, the 1/4 Cor. between Secs. 4 and 5 sets W. 7.85 ft., @ which point we drive a hub for the true 1/4 Cor. and mark new B.T.'s as follows: - Tam. stub 5 N. 41° 34' E. 38.06 ft., brush 1 1/2 S. 61° 53' E. 22.50 ft.

April 8th, 1911. W. C. Bennett, Geo. Collins and Hemphill axemen, Steve Collins chain and flag, A. W. Moulster transitman. Beg. at 1/4 Cor. bet. Secs. 4 and 5 run East, 8° 50' Var. At 200 pin in swamp, @ 512.65 tack in log, @ 1320 hub, temporary 1/16 Cor., @ 1950 cross winter road N.E. and S.W., @ 2640 hub, temp. centre of Sec. 4, @ 3960 hub, temp. 1/16, @ 4400 leave swamp, @ 4800 hub, @ 5175 hub E. of Road which bears N. & S. At the N. Cor. of Secs. 3 & 4 on the Twp. line I drove an iron pipe 3/4 x 16", left 4 inches above ground, from which I run South on 6° 15' Var. At 1133.90 set hub, @ 1400 hub, @ about 2830 cross East & West centre line, @ 2971.80 set hub.

April 9th, 1911. At hub 1320 W. of 1/4 Cor. on N. side Sec. 3 134-30, we run E. 7.50 ft., then S. 4.66 ft., and set the 1/4 Cor. on N. side of N.W. 1/4 on Sec. 3 and correct the whole line W. to the N.E. Cor. of Sec. 5. Then we correct the line between Secs. 3 and 10, 4 and 9, as follows: - Gov't. chain of S. side of Sec. 4 is 5338.08 ft. and Gov't. chain of W. 1/2 of Sec. 3 on South side is 2630.10 ft., making 7968.18 ft. Gov't. ch. from 1/4 Cor. bet. Secs. 3 & 10, to the Cor. of Secs. 4, 5, 8 and 9, while my chain of the same line is only 7647 ft., being 321.18 ft. short of Gov't. chain. We correct the line as to E. and W. proportionally. 2630 ft. Gov't. ch. equals 2524 ft.

SURVEY RECORD No. 192.

my chain; 5338 ft. Gov't. ch. equals 5123 ft. my chain. Hub 2640 goes East 116 ft., hub 5280 goes East 194.50 ft. and N. 57.35 ft., hub 1320 sets C. 58 ft. and N. 15.81 ft. Hub 3960 sets C. 155.25 ft. and N. 44.50 ft., hub 6600 sets C. 233.75 ft. and N. 70.20 ft.

April 10th, 1911. Same crew. Beg. at hub 2911.80 S. of the N. C. Cor. of Sec. 4, we continue our transit line S. At 3800 set hub, @ 4200 set hub, @ 4500.75 set hub, Var. 6°35'. At 4800 enter meadow, @ 4925 cross creek, E. & W., enter tan swp., thence in swp. At 5200 set pin, @ 5434.30 tack in 3 in. log in swp. E. of road, @ 6600 lo. swp., @ 6770.20 hub, @ 7431.30 hub, @ 8000 set stake, @ 8121.65 ft. South, the 1/4 Cor. bet. Secs. 9 and 10 bears C. 112.50 ft. At the 1/4 Cor. bet. Secs. 9 and 10 we find the stumps of both B. T. 5, the N. C. being plainly marked. From these stumps we set the 1/4 Cor. by measurement, after which the courses check nearly. We correct the lines between Secs. 3, 4, 9 and 10 and set hubs and stakes. At the 1/4 Cor. on the N. side of Sec. 4 we drive an iron 5/8 x 36 inches for the true 1/4 Cor., from which we run South @ 8°30' Var. At 200 set hub, then on account of big mud Lake I cause a hub to be set on line on a hill on S. side across the Bay, then offset 100 ft. W. and set hub, thence South. At 400 pin in swp., @ 600 pin in swp., @ 1340 leave swp. I offset 100 ft. East, and from hub 1422 I continue South. At 1600 set pin, @ 1796.25 set hub.

Correcting the East Bdy. of Sec. 4; from the N. C. Sec. 4 to the 1/4 Cor. between 9 and 10 is 2640 plus 5484.60 equals 8124.60 ft. Gov't. ch. and is 8121.65 ft. my chain or 3 ft. short of Gov't. chain. 2640 ft. Gov't. ch. equals 2639 ft. my chain. The 1/4 Cor. bet. Secs. 3 and 4 on road line sets South 2843.65 ft. then C. 48.55 ft., the 1/16 Cor. sets South 1524.15 and C. 26.02 ft., and the 1/16 Cor. S. of the 1/4 Cor. on the E. side of Sec. 4 sets S. to 4163.15 and East 71.07 ft.

April 11th, 1911. Continue transit line South through Center of Sec. 4; @ 1796.25 hub, @ 1982.70 hub, @ 2100 enter swp., @ 2832.60 cross E. & W. random line at a point 2630.10 ft. W., @ 2834.30 tack in corduroy.

April 12th, 1911. We continue South. Steve Collins, chain and flag, Wm. Frisky, W. C. Bennett axemen. At 3000 pin in bog, @ 3500 leave bog, @ 3631.70 hub, @ 3900 enter swp., @ 4000 hub, @ 4320 cross brook E. and W., @ 4759.40 hub, @ 5400 set pin, @ 5531.10 intersect E. and W. random line at a point about 5035' W. We correct up the lines and the true corners at the following places: all 4 corners to Sec. 4 and all of the 1/4 Cors. around Sec. 4, also the centre of Sec. 4, the centre of the S. 1/2 and the centre of the E. 1/2 of Sec. 4 and the 1/16 Cor. W. and the 1/16 Cor. S. of the N. C. Cor. of Sec. 4 and the 1/16 Cor. N. of the S. C. Cor. of Sec. 4 as per plat herewith.

April 14th, 1911. Steve Collins, W. C. Bennett and Wm. Frisky assisting me. Setting on 1/4 Cor. on N. side of Sec. 3 I run East at 8°40' Var. At 332.75 set hub. At 650 enter tan swp., @ 1320 hub, temp'y. 1/16 Cor., I then lost my balance in getting over a log and smashed the transit. Went to Pine River.

August 8th, 1911. Steve Collins flag and chain, George

Collins, W. R. flow apmen. A. W. Moulter, transitman and chairman.

Continue our line east from where we broke the transit; at 1400 set pin, at 2450 enter north end small pug hole; at 2575-lv. same; at 2640 hub. temp. section corner to sec. 2 and 3 on north boundary, T. 134, R. 30, where govt notes call for tamarac 5 S. 79° 30' E. 218 links (= 143.88 feet.)

Tamarac 9 N. 37° E. 350 links (= 231 feet.) var. reads 8° 40'. I find the old govt stake with old marks showing plain over which I set the transit and find the stump of old S. E. B.T., but no trace of the N. E. B.T. This is surely the corner, but as a check to make sure I take the transit back and continue our line east. at 2800, 3000 set stakes; at 3100 cross wagon road N. and S., point crosses swamp at 3800 lv. swamp, brush land at 4000 hub. at 4700 enter swp. at 5200 set stake. The bearing trees at the 4 on N. side of sec. 2 appear to be gone. I find an old stake which looks like Hallett's but no bearing trees or stumps, and I do not use it. We walk one half mile east to the corner of sec. 1 and 2, at which point the govt notes call for a stake and the following bearing trees. B. Gilliad 14 N. 49° 30' east 98 links (= 64.68 feet.) Tam. 7 N. 35° W. 114 links (= 75.24 feet.) Tam. 8 S. 74° W. 206 links (= 135.96 ft.)

We find a stake at north edge of river, fully marked, also marked "B. B. B." which shows that it was set by County Surveyor Bartlett. Standing beside the stake is a long piece of 3/4 inch black iron pipe, well driven into the bank of the creek. This is evidently the true corner.

Mrs. flow and Collins decide they will not survey sec. 3 on account of fall work and expenses.

Notes for sec. 9, T. 134, R. 30. At N. E. corner (being the corner to sections 3, 4-9 and 10) set iron for corner, no bearing trees. at the 4 corner on north side of sec. 9 (being the 4 between 4 and 9,) set iron corner - no bearing trees.

At the N. W. corner of sec. 9 (being the cor. to sec. 4-5-8 and 9) I set cor. from old government bearing trees, and establish new bearings as follows. Birch 3 N. 31° 41' W. 15.75 feet. Tam. stump 14 N. 66° 47' E. 17.94 feet, 9° var. At 4 cor. on E. side of sec. 9 (4 between 9 and 10) I set from old government bearing trees.

Aug. 9, 1911. Steve Collins, ch. and flag. George and Norman Collins apmen. A. W. Moulter transitman and chairman.

Surveying a Barre County road: Beginning iron sec. cor. previously established by me for the true cor. to cor. 3+ 4-9 and 10, and run south in swamp at 6° 40'. at 900 lv. swamp. at 982.30 hub. at 1320 hub, temporary 1/4 at 2000 hub. at 2639.50 the 4 corner on E. side of section 9 sets E. 20.78 feet.

This 4 cor. was previously set by me. From the 4 cor. between 9 and 10 run south on 9° var. at 867.60 hub. at 1391.80 hub. at 1900 enter small round meadow. at 2100 lv. same. at 2554.90 hub. at 2640 hub, temp. section corner, about 60 feet west of meadow. At this corner being the corner to sec. 9-10-15 and 16, we find no trace of the government stake or bearing trees.

Aug. 11 th. 1911. As no one knows there are any corners E. W. or S. of the cor. to 9-10-15-16, in order to locate the same, I set my transit on temp. cor. hub, and run W. on 9° variation. At 121.70 hub on hill, at 585 enter meadow. at 1000 enter bog N. E. + S. W., then offset around bog. run south 111.70, thence W. at 1860 lv. meadow. at 1930.60 run N. 111.70 to hub on line. at 2316 cross Pullinger - Pine River N. and S. At about 2542 Hallett's 4 cor. sets south 20 feet. 2615 road N. and S. at 2640 temp 4 corner, which is gone and we continue west. At 2724.40 hub,

@ 2812 enter small round meadow, @ 2900 leave same, @ 3145.25
 hub, @ 3480 hub, @ 3740.50 hub. At 3751.30 M.C. no. 21 bears
 S. 20.55 ft. At this point, being M.C. no. 21, on the E. side of Rock
 Lake and on line between Secs 9 and 16, we find the stumps of
 the old Gov't. B.T.'s from which we set the true M. Co. and I
 establish new B.T.'s as follows: - Poplar 4 N. 75° W. 6.40 ft.,
 Poplar 4 S. 10° W. 14.50 ft. to tacksheads. From the S.E. Cor. of
 Sec. 9 to M.C. 21 Gov't. chain is 3861 ft.

August 15th, 1911. A.W.M. Transit, S. Collins axe and
 chainman, George and Norman Collins axemen. Setting
 transit on temp. Cor. to Secs. 9, 10, 15 and 16, 134-30, being
 3751.30 ft. E. of M.C. no. 21 on Rock Lake, we run E. At
 35 enter dried-up slough, @ 325 lv. same, @ 572.75 hub on hill,
 @ 800 hub on hill, @ 1264.30 hub on hill, @ 1400 deep ravine,
 @ 2000 lv. same, N.E. and S., @ 2483 hub, @ 2775 cross road,
 E. and W., @ about 2798 an old stake sets N. about 12 ft.
 The 1/4 Cor. bet. Secs. 10 and 15 is gone and we continue E. At
 2925 enter N. end of wet meadow, @ 3200 lv. same, @ 3808.20
 hub on top of hill, @ 4788.40 hub on hill.

August 16th, 1911. Continue East. At 5290.10 the Cor. to
 Secs. 10, 11, 14 and 15 bears South 68.50 ft. at this corner I find
 the State Surveyor has set the Cor. and has driven in three
 sharp pieces of 1/4 inch pipe, one piece being driven straight
 for the Cor. and the other two slanting towards the S.E. of the
 S.E. indicating that that is forest reserve. They evidently set
 the Cor. from the old Gov't. B.T.'s. I find the two North stumps
 blazed and marked "B.T.". Setting transit on iron Cor.
 I find the following bearings, @ 9° Var. Pine stump, burned,
 N. 7° 30' W. 7.75 ft., Pine stump, burned, N. 20° E. 50.60 ft., Pine
 stump burned S. 47° W. 21.30 ft., Pine stump burned S. 48° 30' E.
 32.30 ft. Both N. stumps marked "B.T." From this Cor. a
 little pothole bears S. 75° W. 80 ft. We pile rock around the iron
 pipe to hold it in place. I find that the State Surveyor used
 that scrub 1/4 post between Secs. 10 and 15, as we find his iron
 1/16 Cor. 1/2 of the way between the 1/4 Cor. and the S.E. Cor. of Sec. 10.
 The 1/16 Cor. is two 1/4 inch iron pipes, one driven straight and
 the other standing N. 45° E. Going to the temp. S.E. Cor.
 of Sec. 9 I continue transit line South. At 2800 pin on N.
 side of big hill, @ 3000 hill top, @ 3084.30 hub on top, @
 3200 pin on S. side, @ 3500 enter small dry pot-hole, @ 3675
 lv. same, @ 4570.50 hub on big hill, the highest hill here, @
 4900 enter small meadow, @ 5600 lv. same, @ 5280 the 1/4 Cor.
 bet. 15 and 16 is gone and we continue South. At 5285 enter
 meadow, @ 5425 lv. same, @ 5928.70 hub.

August 17th, 1911. Same crew. Continue South: @ 6635
 hub on hill, @ 6800 enter meadow, @ 7000 lv. same, @ 7400 lv. small
 meadow, @ 7560 lv. same, @ 7761.80 hub on hill, 9° 20' Var.

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at 7918 the cor. to Secs. 15, 16, 21 and 22 sets east 38.50 feet. I set the corner to sections 15-16-21 and 22, from the old govt bearing tree stumps by flat measurement, after which the old stumps almost check for courses. I set new bearings as follows: Poplar S. 1. 51° E. 61.50 feet. Norway 6.5 15° 32' W. 166.26 feet. As I did not have my marking iron I made the B.T.'s with tacks. I drove a 3X3X24 inch poplar stake for the corner, around which I filled a big stack of rocks. It sets in N.E. of a little meadow 140 feet or more N. of water's edge - Long lake. I freshened the old "B.T." mark with a jack-knife and filled with tacks. From the 4 corner E. side of sec. 9, run W. 4° var. at 588 center of main road N.E. and S.W., at 1291.40 hub. at 1820 hub. at 1420 road NW. + S.E. to Cole's. at 1942.20 hub. at 2536.30 hub. edge of corn-field. at 2812 hub. August 18th 1911. Same crew continue. At 3358 hub. offset 344 feet N. thence continue west. (offset around Long lake.) at 4589.30 hub. in field at 4900 enter meadow. at 5200 hub. in meadow.

Beginning at the cor. to sec. 4-5-8-9 in swamp, run S. at 8° var. at 1600 h. sup. enter meadow. at 1800 hub. at 1900 cross dried up creek, at 2400 enter rushes, bog-land. at 3100 no trace of witness corner. at 3156 hub. on knoll. at 3457.60 hub. 2 feet N. of E. + W. wagon road, var. 8° 45'. At M.C. no. 18 on N. side of Rock lake between sec. 8 + 9, govt notes call for a stake and Pine 15 N. 27 links (17.82 feet.) Pine 15 N. 55° W 54 links (= 35.64 feet.) I find both old stumps from which I set the M.C. by measurement, after which at 8° 30' var. W. P. stump bears N. 1° W. 17.82 feet. N.P. stump N. 53° 43' W 35.64 feet. I drove a 3X3X20 inch stake for the true M.C. and put in new bearings as follows, at 5° 30' var. N.P. 10 N. 49° 45' E. 48.55 feet. J.P. 11 N. 65° 30' W. 78.80 feet, to tack heads.

At 3494.60 feet south M.C. no. 18 sets west 53.34 feet, showing that 3465 feet govt chain equals 3494.60 feet my chain, so to put in the 4 cor. between 8 and 9 we run 26.62 feet south, then W. 40.60 feet. where we set the true 4 cor., and put in a tamarac pole 18 ft. long, squared at the big end 3 1/2 X 3 1/2 inches and driven way down in the soft mud. I put in bearings which may vary on account of the soft bog, var. 9°. Tamarac + S. 52° 30' W, 167.65 ft. Tamarac + N. 54° W. 183.10 ft. to tack heads. At 5108.20 ft. W. the 4 cor. on the W. side of 9 sets S. 327.30 ft., but as we made an offset of 344 ft. N. on our way W. we would of come out 14.70 ft. S. of the 4 corner between sec. 8 and 9.

August 19th 1911. Setting transit on the 4 cor. between 4 and 9 (which I set last spring) runs S. in swamp at 8° 30' var. @ 700 lv. swamp. @ 1320 hub. @ 1750 cross wagon road N.W. + S.E. - to Cole's. @ 1858.45 hub. @ 2658 cross E + W random line, 2493.30 west. @ 3250 enter small meadow. @ 3475 lv. same. at 4000 hub. at 4235 road N.E. + S. at 4600 hub, 8° 40' var. at 4900 small meadow, 152 ft. wide E + W. at 5290 hub.

August 21st 1911. We correct all of the line in sec. 9 according to the rules laid down by the Surveyor General's Office at Washington D.C.

Aug. 22nd 1911. We set the corner to sec. 9-10-15-16, being in W. side of dry slough, with new bearings as follows: N.P. S. N. 47° 24' W. 104.40 feet.

J.P. 11 S. 54° 49' W. 138.30 ft. Big rock on E. side of meadow bears N. 75° 57' E. to high est. point at 9° var. for corner we drive a 3X3X20 inch oak stake

Set 4 corner between 8 and 9, being about 15 ft. N. of small meadow drive a 2X2X14 inch Birch stake with bearings as follows, 9° var.: J. Pine scrub 5 S. 48° 10'

SURVEY RECORD No. 192.

W. 24.45 feet, J.P. 6 S. 30° 44' E. 43.03 feet.

We set the 1/16 corner south of the N. E. Cor. of Sec. 9 with bearings as follows, var. 9°: Poplar 6 N. 4° 53' W. 32.38 feet, N.P. 10 N. 89° 51' E. 40.50 ft. To run a line west through the centre of N. E. quarter of Sec. 9 begin at the 1/16 just set and run W. on 8° 50' var. at 450 enter swip., @ 760 lv. swip., @ 1000 hub, @ 1200 hub, @ 2150 enter meadow, @ 2300 lv. same, @ 2535 the centre of N. 1/2 of Sec. 9, being 1/16 post, sets N. 10.44 ft. where we put in the following B. T.'s: N.P. 12 S 62° 30' W. 20.70 ft., Pop. 5 S. 32° 14' E. 58.73 ft. We set for the 1/16 Cor. a 3x3x16 inch poplar stake. In the centre of Sec. 9 we drive a 3x3x18 inch poplar, @ 9° var., bearings as follows:- Poplar stub 4 N. 88° 8' E. 60.55 ft., Burned Pine stump S. 21° 39' E. 41.90 ft. and we set a 3x3x18 inch J.P. stake for the 1/16 Cor. in the centre of South 1/2 of Sec. 9, from which J.P. 9 N. 35° 44' W. 32.03 ft., J.P. 6 S. 54° 10' W. 28.95 ft., @ 9° var. We set a 3x3x16 inch oak with stones piled around for the true 1/16 Cor. N. of the Cor. to Secs. 9, 10, 15 & 16. We set an iron rod 1 ft long by 1/2 inch for the true 1/16 Cor. C. of the Cor. to Secs. 3, 4, 9 and 10, Twp. 134, R. 30.

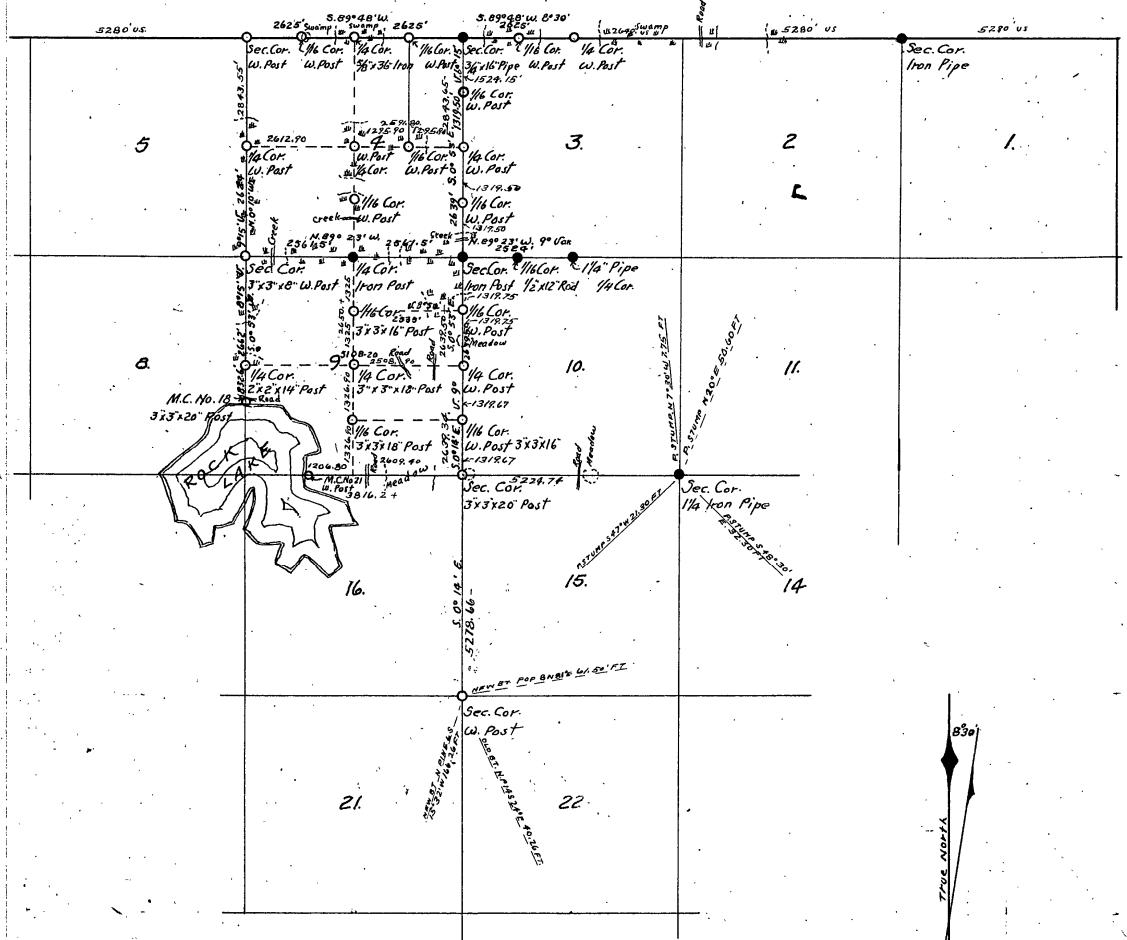
Recorded Aug. 1st, 1912.
John W. Cuss Co Surveyor Cass Co Minn

Sec	Cont'd On Page	Book
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15	"	"
16	"	"
21	"	"
22	"	"

PLAT.
SECS. Nos. 1, 2, 3, 4, 5, 8, 9, 10, 11, 14, 15, 16, 21 AND 22.
TWP. 134, R. 30, 5TH P. M.

SCALE: 2 IN. = 1 MI.

SURVEY RECORD No. 192.



Survey made April 5 to 14, Aug. 6 to 22, 1911.
Recorded Aug. 18th 1912
John W. Curo, Co. Surveyors Cass Co. Minn.

Sec.	Cont'd On Page	Foot.
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33		34
34		6
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Field notes of the survey of a part of Township 134 N., Range N. 31 W. 5th Principal Meridian, the sections 1, 2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 27, 28, 33, 34 and 35 as made by John W. Curo, County Surveyor of Cass Co. Minnesota, Assisted by Harry S. Todd, Deputy County Surveyor. We use two new Engineers transits in perfect adjustment and two 300 foot steel tapes - measurements and courses perfect. July 1st 1912. Todd Transitman: Look for the corner 15.

Sections 2, 3, 10, 11, T. 134 R. 31: as all of the bearings and slide is gone we go to the 8x8x36 inch stone set in concrete by Curo for the true corner to secs 3, 4, 9 & 10 T. 134, R. 31 and run East on 9° 00' at 486 culvert: at 793 culvert: at 1485.20, but leave culvert: @ 2990.50 hub on hill: at 2633.40 set hub: the 1/4 between secs 9 & 10 is gone: at 3000 wire fence: at 3206.30 set hub: at 3856.20 set hub enter swamp N and S: at 5266.80 set hub at 5600 leave swamp: at 5635 hub: Geo Horn, John Acterson, Alfred Ecklund, as and chainmen

July 2nd 1912. Continue East: at 6040 set hub: at 6349.60 hub: at 6868.20 hub: at 7210. road bears SE, at 7500 enter meadow N. & S: at 7960.95 the 1/4 between secs 2 and 11 bears South 187.25 feet. at this point we find a stone with cross in top, set from old Gov't bearing lines, for the true corner set by Mr. Whiteley former County Surveyor - one old B.T. root is still there in place. We find the stone under the corduroy, no lines near to mark up for new bearings. Geo Horn and A. Ecklund, as men.

July 6th 1912 Todd at the transit: We go to the 8x8x36 inch stone set by Curo in concrete for the true 1/4 corner between secs 14 and 15 for the true 1/4 corner, and run North on 9° 15' 00" at 320 swamp: at 500 leave same at 646.60 hub: at 2640 hub: corner gone and we continue: at 2643.80 hub in E. and W. road: at 2982.20 hub on side hill: at 3564.30 hub: at 4255.80 hub Geo Horn and Wm Crocker assisted

July 8th 1912. Todd Transitman: at 5280 set hub for temporary 1/4 cor between secs 10 and 11: corner lost and we continue North: at 5710 cross road bears N 10° W: at 5842 hub: at 6337.80 set hub: at 7600 enter meadow at 7920 hub temp cor to secs 2, 3, 10, 11. Continue North: at 7925. Cen of E art and West corduroy: at 8120 cross E and W. transit line: at 9000 leave meadow: at 9105 set hub: Geo Horn, C. J. Griffin and Wm Crocker worked

July 9th 1912 Todd at the transit. Continue North: at 9759.40 hub: at 11270. cross road bears N 50° W: at 11947.80 hub: @ 12911. set hub at 1295. cross old N.E. road at 18248, the North east corner of Sec 3 being North West cor Sec 2. T. 134, R. 31, bears East 29.40 feet at which point we find a stake and the stump of the old S.E. bearing line; and the roots of the other three trees from which we set a new stake for the true corner and mark up new bearing lines as follows: Oak 8 S 50° E 11.50 feet: Birch 8 S 15° W 27.72 feet A. Ecklund, W. M. Crocker and C. J. Griffin worked

July 10th 1912 Todd at transit: we establish the true cor to secs 2, 3, 10, 11 - 134-31 where we set a stake with 0. new bearings as follows: Stone 16 inches in diam bears N. 80° 35' E 60.98 feet: Poplar 3 S 41° 36' E 112.22 feet: Correcting up our N, S, E and W. new transit lines we find that at a point 7984.73 feet N. the cor to secs 2, 3, 10, 11. bears East 48.10 feet and at 5303.75 feet East, the same corner sets South 129.45 feet

SURVEY RECORD No. 193

To put in the 1/4 corner between Secs 8 and 10 we begin at our temporary 1/4 and run East 18.78 feet, then South 64.70 feet where we set a stake for the true 1/4 corner with new bearings as follows: Boxwood 55 31° 2' E 63.85 feet: dead oak 10 N 83° 23' E 37.12 feet. At the corner to Secs 7, 8, 17, 18, T 134 R 31 we find a stone with cross on top set for the true corner from old Gov't bearing trees, by Mr King a surveyor. We find the stump of the S.E. bearing tree and the roots of the N.E. tree and find that the stone is correctly placed: Same crew work today.

July 11th 1912. Todd at the transit: Beginning at a point 14 feet North of the corner to Secs 7, 8, 17, 18 we run East on 9° 30' 00" at 170 cross culvert: at 365 West bank of creek, bears N. & S. 380 East bank of creek: at 1085.50 hub in road at 1812.45 hub: at 2626 culvert: 2640 temporary 1/4 corner all marks are gone and we continue East: at 3155.75 hub in road: at 3335 cross road bears N.E.: at 5028.40 set hub: at 5277.36 set hub for temp' cor to Secs 8, 9, 16, 17: all marks gone and we continue East: at 6610.85 set hub: the corner of a stone fence bears N. 13.00 feet: at 7062.60 set hub: at 8381 set hub. Same crew worked today.

July 13th 1912 Todd at transit, continue east: 9040.60 set hub 9463.80 set hub 10560 set temporary corner to Sections 9, 10, 15, 16: at 10623.20 set hub N. of wheel track at 10624.60 center of N. and S. wagon road (the true corner to Secs 9, 10, 15 and 16, T 134, R 31, bears South 28.30 feet, but as Todd does not know this corner is here he continues his transit line East) at 11965 cross road bears N 10° E. at 12705.50 set hub: at 13855.40 hub, at 14572. cross road bearing S 25° E: at 14788 ft set hub. Same crew worked today.

July 15th 1912 Todd at the transit, continues East: at 14978, cross road: at 15160 a deserted farmhouse bears North 75 feet: at 15840 set hub for temporary corner to Secs 10, 11, 14, 15: all marks are gone and we continue East: at 17487.70 set hub: at 18274.90 set hub: turn 90° angle and run South to get past some buildings: at 151.70 South set hub: then from another hub which has been set about 600 feet East of hub 18274.90 we run South 151.70 feet and giving a line between these two points, continue our line east: at 18480 set hub for temporary 1/4 cor between Secs 11 and 14: all marks gone and we continue east: at 18500 enter road which bears E. and W. at 18625 N + S creek bottom: at 18750 leave road which bears S 10° E: at 19114.20 set hub: at 21120 set hub for temporary corner to Secs 11, 12, 13, 14, T 134, R 31 (the true corner sec corner set 30 feet east but Todd does not know it and continues his line East: at 21150 intersect the corner) at 21150 find an iron corner at intersection of roads N, S, E and W, but we do not know whether this is the true corner or not, and continue our line east at 23760 find no 1/4 corner: at 23807.50 set hub: at 23817 cross N + S road: at 25013 set hub: at 25075 cross road bears N 20° E. Same crew worked today.

July 17th 1912 Todd at the transit continue east: at 25833.90 set hub: at 26400 set hub for temporary SE corner of sec 12 and N.E. corner of sec 13, T 134, R 31. All marks of the old Gov't corner are gone.

Beginning at the 8 x 8 x 36 inch stone set in a bed of concrete by Curio, for the true S.E. corner of Section 13, T 134, R 31 we run North on 9° 30' 00" at 505, cross culvert: at 1610.20 hub in road: at 2640 set hub for temporary 1/4 corner, all marks gone we continue North: at 2798 hub: at 5280 set hub for second temporary corner to Secs 12 and 13. Geo Horn, A. Ecklund, W.M. Crocker. worked all day.

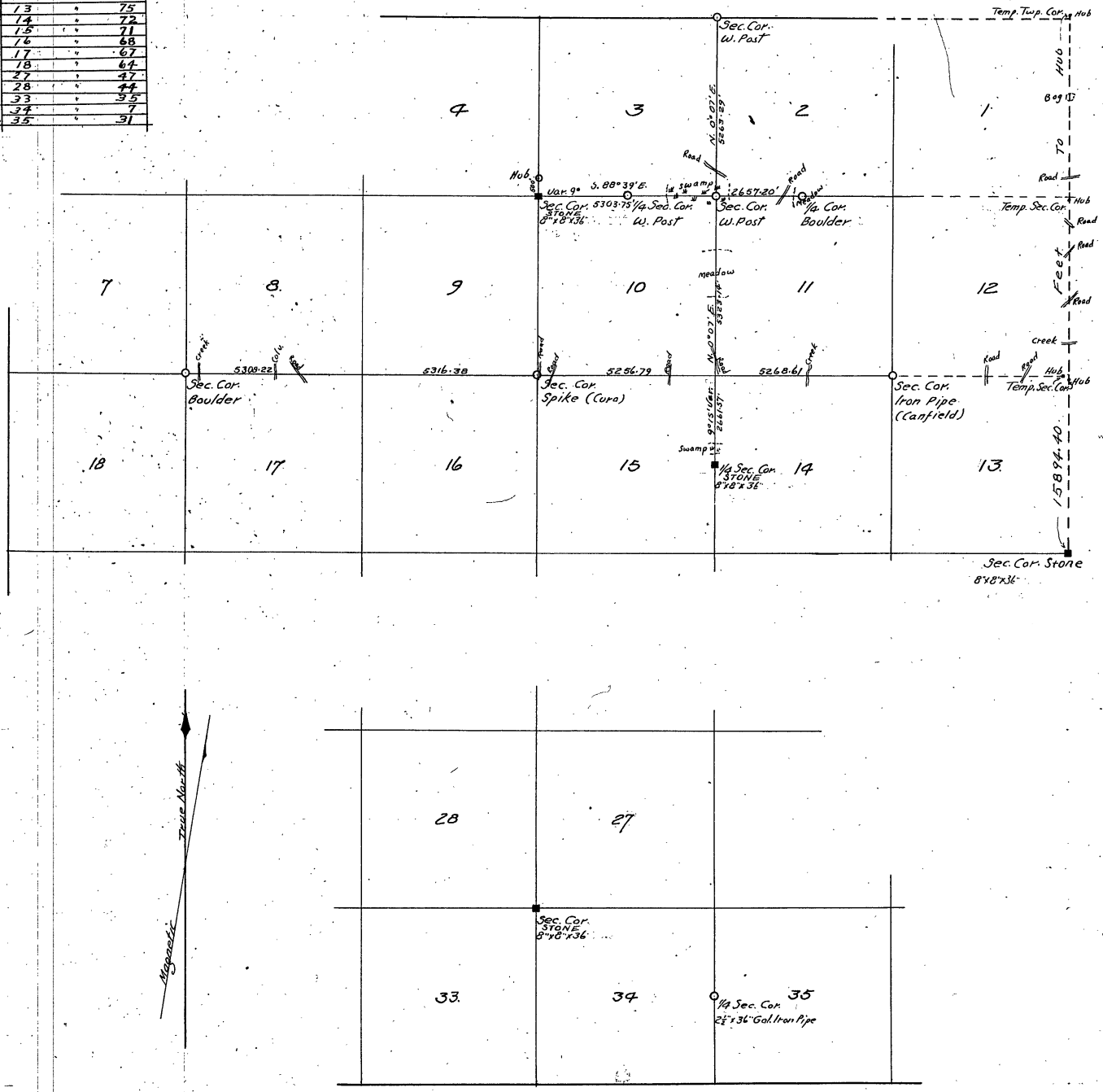
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PLAT.

SECS. NOS. 1, 2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 27, 28, 33, 34 AND 35, TWP. 134, R. 31 W., 5TH P. M.

SCALE: 2 IN. = 1 MI.

SURVEY RECORD NO. 193.



Survey commenced July 1st 1912.
 finished July 29th 1912.
 Recorded August 1st 1912.

John W. Cross, C. Sweeney Cross & W. H. Cross

SURVEY RECORD No. 193.

July 18th 1912 continue North: at 5638.50 set hub: at 6150 cross creek at 7580 cross road bears NE and SW: at 7920 set hub for temporary 1/4 corner. Same crew worked today

July 19th 1912 Todd at transit, continue North: at 8032.50 set hub at 8953. wagon road bears N35°E: at 9830 old road bears N16 and N18: at 10560 set hub for temporary N.E. Cor Section 1. Curo and Geo Brown help us look for old corner but as all marks are gone we continue North: at 11080 cross old E and W. road: at 12526.50 set hub: Geo Horn, W.M. Crocker, Alfred Ecklund worked in one crew with Todd, Geo Brown and Curo worked in another crew. Curo and Brown go to the corner to sections 9, 10, 15, 16, T134, R31 and check up on Todd's survey line. Curo has previously established this corner from the stump of the old N.E. bearing tree and the roots of the old N.E. and S.W. bearing trees, and drove a 20^d spike for the true corner: We re-establish the corner from the old N.E. B.T. stump and find that Todd's hub N^o 10623 East, bears N3°4'W 29.35 feet, and that at a point 10624.60 feet east, the true corner sets South 29.30 feet. Curo and Brown go to the corner to sections 11, 12, 13, 14, T134, R31 where there is an iron pipe established by former County Surveyor Canfield, for the true corner set from old Govt. bearing trees: from this corner we find that Todd's hub 21120 East, sets west about 30 feet, so that at a point on Todd's line 21150 feet east of the corner to sections 7, 8, 17, 18, it intersects the true iron corner to sections 11, 12, 13, and 14, T134, R31.

July 20th 1912. John W. Curo, Geo. Brown, John C. Martin and Lewis Williams, go to the corner of sections 27-28-33-34, T. 134 R. 31, previously established from one old gov't bearing tree by Curo, who set a hub and tack, and put in the following bearings: Fence post 61.45°41' E, 37.18 feet. Fence post 63.41°56' E, 53.10 ft. Telephone pole 61.51°47' W, 43.83 ft. to tack heads. We find the hub and tack which check out for course and measure with the bearings, we take up the hub and put in its place, an 8x8x36 inch stone, in a bed of concrete and large stone, for the true corner to sections 27, 28-33-34, T. 134, R. 31.

Harry S. Todd, Geo. Horn and Alfred Ecklund, begin at hub 12526.50 and continue transit line north, along east side of sec. 1, T. 134, R. 31. at 13200 set hub for temp. 1/4 corner on E. side of sec. 1. All evidence of old corner is gone, and we continue north. at 13261 set hub.

Todd cuts his foot and they quit for the day.

July 22nd 1912. Todd and crew continue north. at 13500 enter little bog which bears E. + W. at 13690 leave bog. at 14733 set hub. at 15840 set hub for temporary N.E. cor. sec. 1 being the temporary township cor. The stake and old government bearing trees appear to be gone and we quit this line. Geo. Horn and A. Ecklund work with Todd.

July 27th 1912. Harry S. Todd transitman, Geo. Brown chairman apman and moundman, go to the 1/4 corner between sections 34 and 35 T. 134, R. 31, where gov't notes call for a post and the following bearing trees. Aspen 18.1. 67° E. 19 links (=12.54 feet.) Oak 135.58° W 10 links (=6.60 feet.) We find the oak, and the roots of the Aspen from which

we set a 2 1/2 x 3 1/2 inch galvanized iron post for the true 4 corner, and with the assistance of Jack Barnett, put in the following new bearing trees.

Poplar 6 S 25° 40' W. 10.40 feet. Poplar 5 N 80° 23' E. 22.80 feet, at 9° var.

Todd uses a K. & E. transit and 300 steel tape. All courses turned from the true meridian.

July 29th 1912. Todd and Alfred Ecklund go back and put in new bearing trees to their temporary hub corners at the following points.

From temp. cor. hub to corner sec. 8-9-16-17-134-31, Oak 4, bears N 40° E. 48.86 feet. Oak 2 S 45° E. 52.60 feet. From temp. corner hub to sec. 9-10-15-16, Poplar 2 bears N 38° W. 34.41 feet. Poplar 4 N. 45° E. 19.02 feet. From temp. corner hub to sec. 10-11-14-15-134-31, on transit line running north, oak 4 bears S 10° E. 42.80 ft. Oak 5, bears S. 80° W. 61.87 feet.

From temp. corner hub to sections 10-11-14-15, on transit line running east, Oak 7 bears N 40° W. 43.26 feet. Oak 8 bears N 35° E 68.90 feet. From temporary corner hub to sections 11-12-13-14, T. 134, R. 31, on transit line running east Jack-Pine 8 bears S 45° E. 80.12 feet. Jack-Pine 10 bears S 55° W 65.95 feet. From temp. corner hub at the N.E. corner sec. 13 on our transit line running north, W. Pine 22, bears S 85° E 31.40 feet. Oak 3, bears S 10° 20.62 feet.

From temp. corner hub 1/4 on E. side sec. 12, T. 134, R. 31, Oak 2 bears N. 75° E. 9.35 feet. Oak 2 N. 10° W. 13.29 feet. From temp. corner hub at N.E. sec. 12, T. 134, R. 31, Oak 2 bears S 30° E. 28.75 feet. Oak 2 S. 45° 31.35 feet.

At hub no. 15894.40 feet N. of S.E. cor. of sec. 13, at the end of the transit line running north, and at a point near the N.E. cor. of T. 134, R. 31, we put in the following bearing trees.

W. Pine stump 13 N. 65° E. 16.79 feet. Oak 2 N. 10° W. 27.80 feet. At the S.E. cor. of sec. 4, Purd has set a 8 x 8 x 3 1/2 inch stone corner, set in a bed of concrete, from which an oak stake, with tack in center bears N. 500 feet.

All courses turned from the true meridian.

Recorded August 1st 1912
John W. Curo. Co. Surveyor Cass Co. Minn.

NOTES	
Sec	Cont'd From Page This Book
31	" " 382

SECS. NOS. 31, 32 AND 33.
TWP. 142, R. 30, 5TH P. M.

SURVEY RECORD No. 199.

Field notes of the survey of a part of township no. 142 N. R. no. 30 W. 5th principal meridian through sections 31, 32 and 33, as surveyed by A. W. Moulster, Deputy County Surveyor of Cass County Minnesota. notes examined, approved and recorded by John W. Curs, County Surveyor of Cass County, Minnesota.

March 10th 1911. A. W. Moulster transitman, Earnest Beard Chairman and flagman. William McFover and Frank Beck apmen. We use a H. & B. engineers transit in perfect adjustment and a 200 foot Chicago steel tape. At meander corner no. 34 on E. side of lake on S. line of govt lot no. 1, of sec. 33, T. 142, R. 30, govt notes call for Q. Pine 24 N. 84° E. 22 links (= 14.52 feet.) Q. P. 24 S. 79° E. 22 links (= 14.52 feet.) We find the S.E. B.T. plainly marked and the stump of the N.E. B.T. from which we set our hub for the true meander cov. on which I set the transit and run W. at 7° 40' var. at 70.62 set temp. sec. cov. on ice for cov. to sec. 32 and 33, T. 142, R. 30, which I mark "50" and from which I begin to chain W., continuing the same transit line. At 200, 400, 600 and 800 set pin on ice. At 1025 lb. ice. The stake and bearing trees at M. C. No. 35 are gone. at 1095.35 hub. at 1600 enter bog. at 1800 lb. same. at 1907.10 hub. at 2237.10 hub. at 2513.90 intersect N. & S. cen. line, of survey coming up from the S. At 2640 set hub. temp. 1/4 corner, on S. side of sec. 32, at which point the old govt stake and bearing trees are gone. At 3303.10 hub. at 3400 enter small bog at 3500 lb. same. at 3960 set hub for temp. 1/6 cov. at 4520.30 set hub. at 5200 pin. 5214.60 the cov. to sec. 31 and 32, stands N. 62.90 feet. At this point I find a stake already set, by proportionate courses and measurements, and by checking up on the old bearing tree stumps I find the stake correct, with bearings as follows. Poplar 5 S. 37° 8' W. 28 ft. Poplar 10 S 41° 54' E. 69 feet. Poplar 6 N. 66° 43' E. 27.60 feet. W. P. stump 10 N. 74° 31' W. 71.60 feet. at 8° 40' var.

Mar. 11th 1911. A. W. Moulster and McFover correcting line. at 2640 west the true 1/4 post on the S. side of sec. 32, T. 142, R. 30, sets 32.70 feet E. and 31 ft. N. We set this 1/4 cov. by proportionate measurement, between M. C. No. 34 and the S.W. cov. of sec. 32. At this 1/4 cov. we put in new bearing trees as follows. N. P. stump 14 N. 59° 51' W. 13 feet at 8° 30' var. At hub 39.60 we chain east 49 feet, then N. 46.54 feet where we place the 1/6 cov. E. of S. W. cov. of sec. 32, T. 142, R. 30.

Recorded August 1st 1912.
John W. Curs, Co. Surveyor Cass Co. Minn.

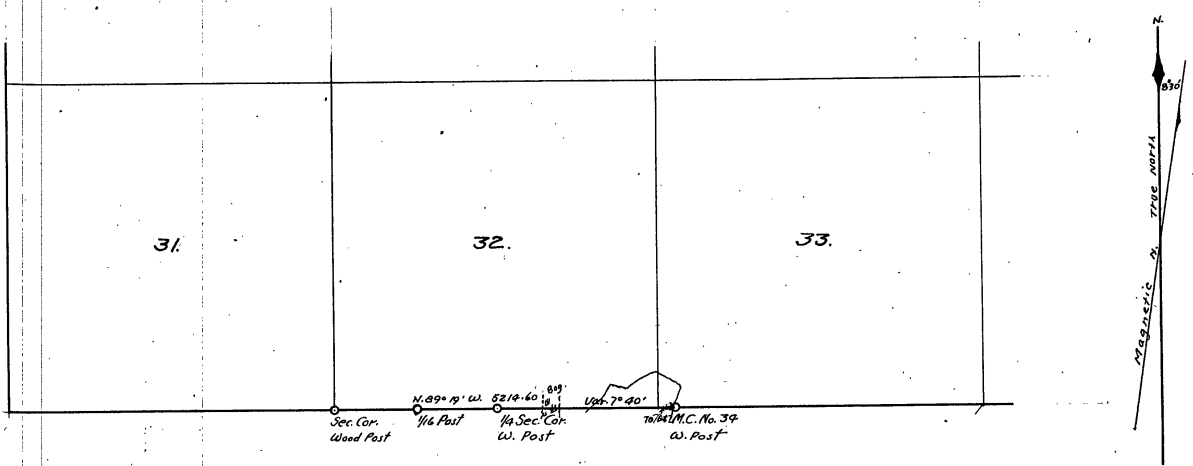
NOTES	
Sec	Cont'd To Page of Book
31	" " "
32	" " "
33	" " 528 " A"

- PLAT -
Sec. Cont'd From Page This Book
31 " " " 523 " "

PLAT.
SECS. NOS. 31, 32 AND 33.
TWP. 142, R. 30, 5TH P.M.

SCALE: 3 IN. = 1 MI.

SURVEY RECORD No. 194.



Survey made Mar. 10, 11, 1911.
" recorded August 1st 1912
John W. Cross, Co. Surveyor Cross Co. Minn.

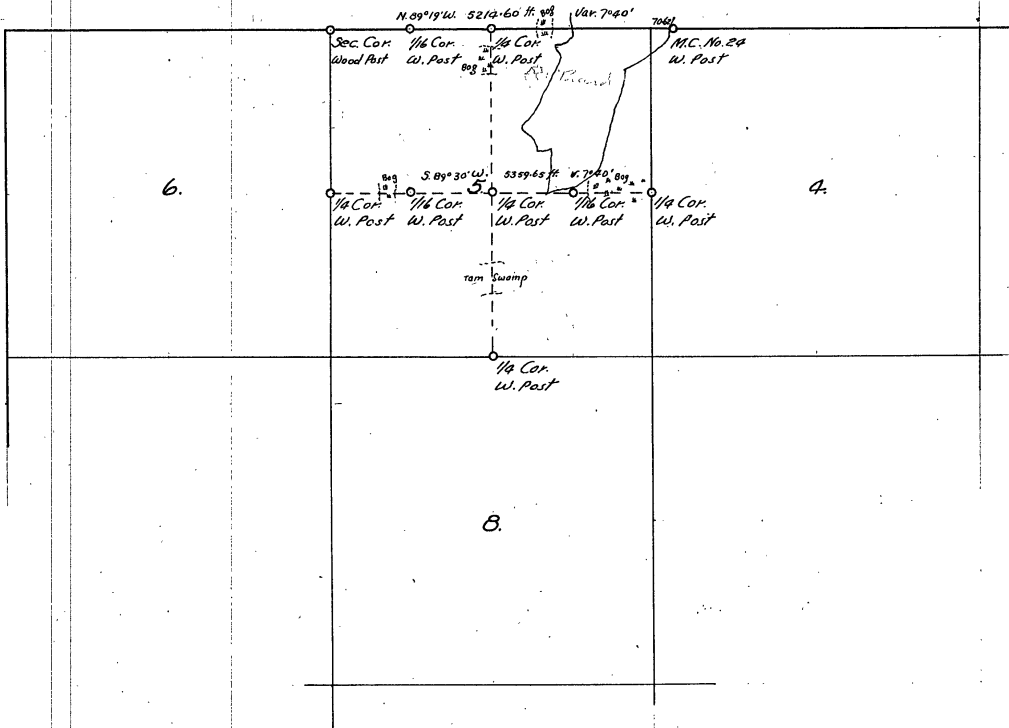
- PLAT -	
Sec. Cont'd to Page of Book	
31	"
32	"
33	" 528 " A "

PLAT:
Sec. Cont'd From Page 1110, Book
6 " " 384 " "

PLAT.
SECS. NOS. 4, 5, 6 AND 8
T. 141, R. 30, 5TH P.M.

SCALE: 3 IN. = 1 MI.

SURVEY RECORD NO. 195.



Survey Commenced Mar. 7, 1911

Survey Finished Mar. 11, 1911. Recorded Aug. 1st, 1912

John W. Cullis, Co. Surveyor, Pass Co. Maine

Field notes of the survey of a part of township No. 141. n. R. No. 30, W. 5th P.M. through secs. 4-5-6-8 as made by A. W. Moulster, Deputy County Surveyor of Cass County Minn. notes examined, approved and recorded by John W. Curo, Co. Surveyor, Cass Co. Minn.

March 7th 1911. A. W. Moulster transitman, F. Beck, A. McFover and S. Halverson ap and chainmen. At the $\frac{1}{4}$ cor. between sec. 4 and 5, T. 141, R. 30, gov't notes call for Y. Pine S. 75° E. 23 links (= 15.18 ft.) Y. Pine 10.4. 14° E. 16 links (= 10.16 ft.) I find the 8 inch bearing tree plainly marked from which I set the true $\frac{1}{4}$ cor. between sec. 4 and 5 and drive a small post, courses turned from $7^{\circ}40'$ var. An old cruiser stake sets fully 100 ft. E. and N. of my $\frac{1}{4}$ post. Beginning at $\frac{1}{4}$ between 4 and 5 I run west on $7^{\circ}40'$ var.

At 200 and at 400 feet set pin in bog. at 600 enter bay of water. at 700 lv. water. at 800 pin in bog. at 1000 lv. bog. at 1242.10 hub on hill. at 1320 hub temp. $\frac{1}{6}$ corner. at 2499.90 hub on hill. at 2640 temp. center of sec. 5. at 3000 pin in small bog. We use a Heller and Brightly's transit in perfect adjustment and a 200 ft. Chicago steel tape. 8 foot flag pole, plumb - bob used in rough places, double center tacks in hubs.

March 9th 1911. B. Beard, ch. and flagman, A. McFover, F. Beck, S. Halverson apmen continue west. at 3894 hub. at 3960 temp. $\frac{1}{6}$. at 4200 enter small bog. at 4400 lv. same. at 5200 set pin, 5359.65 the $\frac{1}{4}$ cor. between 5 and 6 stands S. 46.60 ft. at this point gov't notes call for. Aspen 14 N 87° W. 49 links (= 32.34 feet.) Aspen 14 N. 48° E. 56 links (= 36.96 feet.) Find N.E. B.T. plainly marked from which I set a hub at $7^{\circ}40'$ var. for the true $\frac{1}{4}$ cor. between 5 and 6. Going to the $\frac{1}{4}$ bet. 5 and 8 T. 141, R. 30, gov't notes call for W. Pine 20 S. 18° W. 17 links (= 11.22 ft.) W. Pine 22 N. 11° W. 51 links (= 33.66 ft.) I find an old stake about $3\frac{1}{2} \times 3\frac{1}{2} \times 4$ ft. long, marked "4 S 5, 4 S 8" laying down and has been turned off at the bottom. I find the S.W. W. Pine, plainly blazed with the B.T. badly burned, from which I set a stake by courses and measurements at $8^{\circ}30'$ var. Set transit on stake I find the N.W. W. Pine stump, badly burned, but checking for course and distance, run N. on $7^{\circ}42'$ var. at 923.25 set hub. at 1050 enter small tamarac swamp. at 1320 hub in swamp, temp. $\frac{1}{6}$ cor. at 1450 lv. swamp. at 1534.30 hub. at 1900 cross E. end of deep ravine. at 2095.90 tack in bog. at 2640 hub. at 2700 point 75, intersect E+W. center line at a point 2736.35 feet W.; at 4072.20 hub in corn field. at 4500 enter bog. at 4950 lv. bog. at 5280 hub. at the $\frac{1}{4}$ cor. on N. side of sec. 5 gov't notes call for Maple - gone.

March 10th 1911. A. W. Moulster transit and chainman. B. Beard, Ch. and flag. W. McFover and F. Beck apmen. At M.C. no. 24 on E. side of lake, and on N. side of lot 7, sec. 4, T. 141, R. 30, gov't notes call for Y. Pine 24 N. 84° E. 22 links (= 14.52 ft.) Y. Pine 24 S. 70° E. 22 links (= 14.52 ft.) We find the S.E. B.T. plainly marked, and stub of N.E. B.T. from which we set a hub for the true M.C. on which I set the transit and run W. at $7^{\circ}40'$ var. at 70.62 set temp. sec. corner on ice for cor. to sec. 4 and 5, T. 141, R. 30, which I mark "50" and from which I begin to chain W. continuing the same transit line.

At 200, 400, 600 and 800 set pin on ice. at 1025 lv. ice. at 1095.35 hub. at 1000 enter small bog. at 1800 lv. same. at 1907.10 hub. at 2237.10 hub. at 2513.90 intersect N+S center line. at 5255.90 feet N. at 2640 hub. temp. $\frac{1}{4}$ corner. at 3203.10 hub.

SURVEY RECORD No. 195.

At 3400 enter small bog and at 3500 lv. bog, at 3960 hub. temp. $\frac{1}{16}$ cor. at 4520.50 hub. at 5200 pin; at 5214.60 the corner to sec. 5 and 6 stands N. 62.90 feet. At this point I find the stake already set by proportionate measurements and courses. And by checking up on the old bearing tree stumps, I find the stake correct, with bearings as follows. Poplar 5-S $37^{\circ} 8'$ W. 20 feet. Poplar 10-S $41^{\circ} 54'$ E. 69 feet. Poplar 6-N $66^{\circ} 43'$ E. 27.60 feet. W. Pine stump 20 N. $77^{\circ} 31'$ W. 71.60 feet at $8^{\circ} 40'$ variation. Note M. C. no. 22 on W. side of lake and the $\frac{1}{4}$ cor. on N. side of sec. 5 could not be found.

March 11, 1911. A. W. Moulton and McEwen correcting. At 2640 true $\frac{1}{4}$ post on N. side of sec. 5 sets 32.70 E. and 31 feet N. we set this $\frac{1}{4}$ corner by proportionate measurements between meander corner no. 24 and the N. W. corner of sec. 5.

The $\frac{1}{16}$ corner W. of the post, hub 3960, goes E. 49 feet and 46.54 N. N. and S. center line length 5255.90 plus 31 equals 5286.90. Hub 2640 sets N. 3.45 ft. and W. 44.70 feet. E. & W. center line 2640 sets W. 39.82 feet, and S. 23.30 feet. we set the center of sec. 5 and drive stake with new bearings as follows. N. P. stump 12 N. $16^{\circ} 36'$ W. 8.40 feet var. 9° . corner then stands 24.60 ft. S. of E & W. random line at a point 2783.35 feet W.

The $\frac{1}{16}$ corner in the center of the W. half of sec. 5, we put in as follows. The total depth of the sec. E & W. is 5359.65 ft. The center of the sec. sets 2783.35 ft. W. The distance from center of sec. to $\frac{1}{4}$ on W. side is 2576.30 feet. This is because the center of section 5 - is established at the intersection of the cross lines, at a point 1288.15 feet W. of the center of sec. 5, being 1288.15 feet E. of the $\frac{1}{4}$ post on W. side of sec. 5, we set a stake for the $\frac{1}{16}$ cor. in the center of the west half of sec. 5, T. 141, R. 30. At the $\frac{1}{4}$ cor. on the N. side of sec. 5 we put in new bearings as follows. N. Pine stump 14 N. $59^{\circ} 51'$ W. 13 feet. at $8^{\circ} 30'$ var. To put in the center of E. half of sec. 5 T. 141, R. 30, we begin at hub. 1320 W. and run W. 71.67 ft. then S. 12 feet.

Recorded August 1st 1912
John W. Cuss, Co. Surveyor Cass Co. Minn.

SEC. 35, T. 141, R. 29 W.

5TH P.M.

SURVEY RECORD No. 196.

Field notes of the survey and establishment of an iron meander corner in sec. 35, T. 141, R. 29 W., 5th principal meridian, as surveyed and established by Harry S. Todd, Deputy County Surveyor Cass Co., Minnesota. Examined, approved, and recorded by John W. Curo, Co. Surveyor Cass Co. Minnesota.

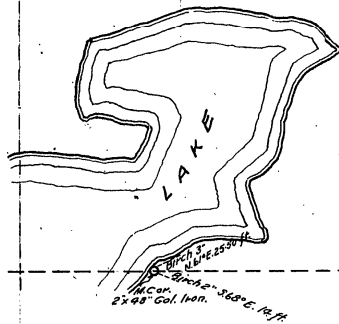
November 4th 1911. Harry S. Todd transitman, Earnest Tinsley and Frank Osborne apmen, moundmen and chainmen. We go to meander corner No. 8 on the southwest cor. of government lot no. 3, sec. 35, T. 141, R. 29, and on the E. side lake, where we find a stake set for the true M.C. cor. from old government bearing trees by John W. Curo. We pull up the stake and put in its place a 2x48 galvanized iron monument, capped on top and set well into the ground, for the true cor. from which a birch 2 in. diameter bears S. 68° E. 14 feet Birch 3 in. 61° E 25.50 feet. The stumps of the old gov't bearing trees are still standing and check out for course and distance. All courses turn from true meridian at 8° and 30' magnetic variation. Measurements taken from the center of the iron monument to the face of the bearing trees.

PLAT
SEC. 35, T. 141, R. 29 W.

5TH P.M.

SCALE 6 IN. = 1 MILE.

35



Survey made Nov. 4, 1911.

recorded Aug. 19, 1912.

John W. Curo, Co. Surveyor Cass Co. Minn.

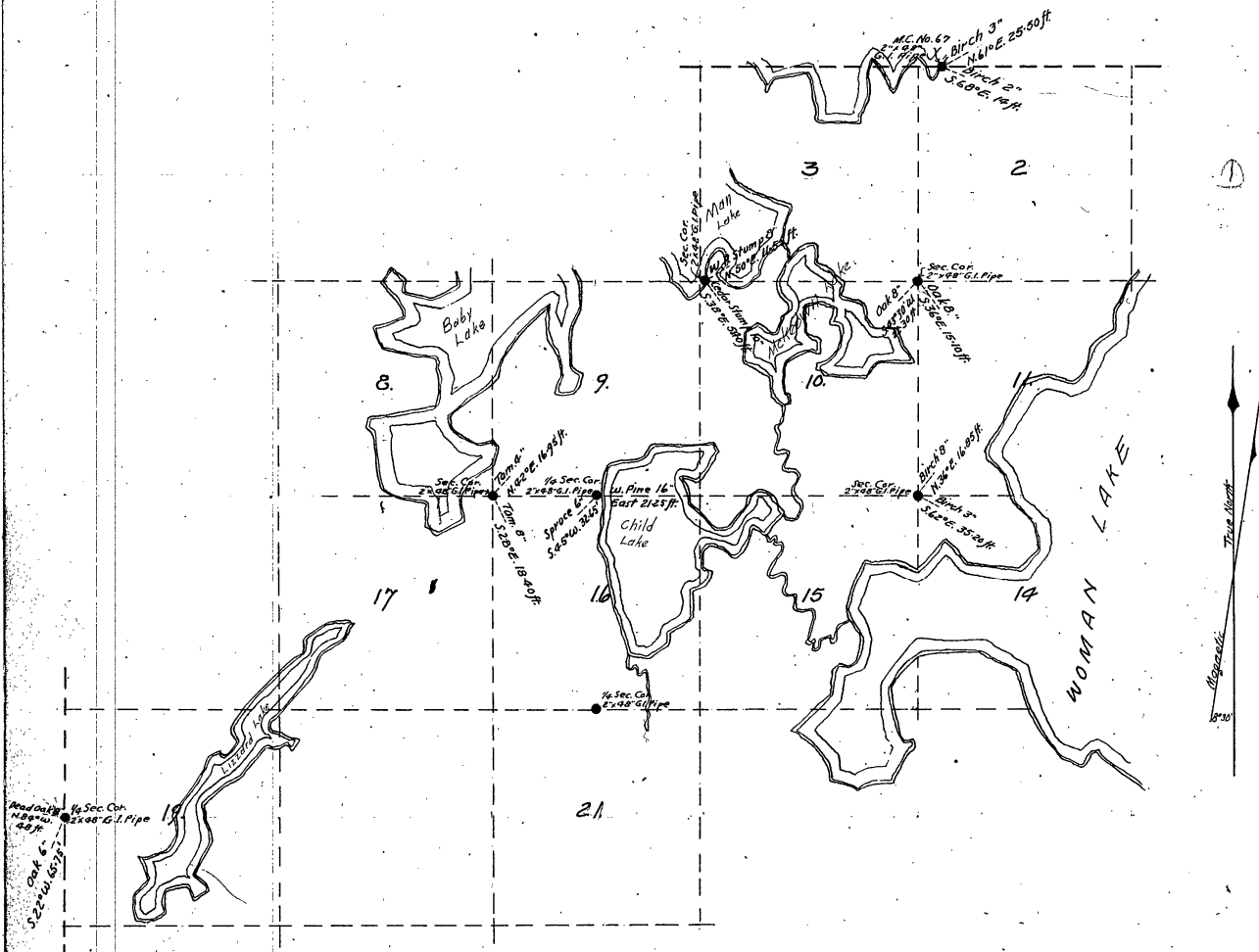
PLAT of Sec. 35 Cont'd to Page 539 This Book

NOTES " 35 " " 538

PLAT
SECS. 2, 3, 8, 9, 10, 11, 14, 15, 16, 17, 19 & 21
T. 140, R. 29W., 5TH P.M.

SCALE 1/4 IN. = 1 MILE

SURVEY RECORD No. 197.



Recorded Aug. 15th, 1912.
John W. Curo, Co. Surveyor Cass Co. Minn.

Survey made Nov. 4th & 5th, 1911.

Field notes of the survey and establishment of iron section corners, quarter corners and meander corners in Township No. 140 N., range No. 29 W., 5th principal meridian, in sections 2-3-8-9-10-11-14-15-16-17-19 and 21, as surveyed and established by Harry S. Todd, Deputy Co. Surveyor, Cass Co. Minnesota, examined, approved and recorded by John W. Curo, County Surveyor of Cass Co. Minnesota.

November 4th 1911. Harry S. Todd, transitman, Frank Osborne and Louis Tusler apmen, moundmen and chainmen. We use a K. & E. engineer's transit and a 300 foot Chicago steel tape. We go to meander corner No. 67 on N. side of government lot no. 4 section 2, Township 140, range 29, being on the east side of lake at a point previously established by Curo, and a stake set for true meander corner from old government bearing tree. We pull up the stake and put in its place a 2x48" galvanized iron monument, capped on the top and set well into the ground, for the true meander corner, from which a birch 2" in diameter bears S. 68° E 14 feet, Birch 3, N 61° E 25.50 feet.

We go to the corner of sec. 2, 3, 10 and 11, where we find a stake set from old gov't bearing trees for the true corner by John W. Curo.

We pull up the stake and put in its place a 2x48" galvanized iron pipe, having a cap on top and set well into the ground, for the true corner to sections 2-3-10 and 11, T. 140, R. 29. We mark up new bearing trees as follows: Oak 8, S 36° E 15.10 feet. oak 8 S 43° 30' W. 22.30 feet. Going to the corner of sections 10-14 and 15, T. 140, R. 29, we find a stake set from old government bearing tree for the true corner, by John W. Curo. We pull up the stake and put in its place a 2x48" galvanized iron pipe, having a cap on top and set well into the ground, for the true corner, we mark up new bearing trees as follows: Birch 8, N. 36° E 16.85 feet. Birch 3 S. 62° E. 35.20 feet.

Going to meander corner No. 77, between fractional sections 3 and 10 and on the E. side of the S. arm of the lake, we find a stake set from old government trees for the true cor. by John W. Curo. We pull up the stake and put in its place a 2x48" galvanized iron pipe, having a cap on top and set well into the ground, for the true cor. from which a cedar stump 10 bears S. 38° E. 5.40 feet. White Pine stump 8 bears N. 50° E. 11.55 feet.

Nov. 5th 1911. At the corners of sections 8, 9, 16 and 17, T. 140, R. 29. We find a stake set by John W. Curo from old gov't bearing trees for the true corner.

We pull up the stake and put in its place a 2x48" galvanized iron pipe, capped on top and set well into the ground, for the true cor. from which we mark up new bearing trees as follows: Tamarac 8 S. 28° E. 18.40 feet.

Tamarac 4 N. 42° E. 16.95 feet.

Going to the $\frac{1}{4}$ corner between sec. 9 and 16, previously established by Curo and Todd from old gov't bearing trees, we find a stake set for the true cor. which I pull up and put in its place a 2x48" galvanized iron pipe, having a cap on top and set well into the ground, for the true $\frac{1}{4}$ cor. between sec. 9 and 16, T. 140, R. 29, from which we mark up new bearings as follows: White Pine 16 East 21.25 feet. Spruce 6 S. 45° W. 32.65 feet.

Going to the $\frac{1}{4}$ cor. between sec. 16 and 21, T. 140, R. 29, previously established by Curo and Todd, from old gov't bearing trees, we find a stake set, for the true cor. which we pull up and put in its place a 2x48" galvanized iron pipe capped on top and set well into the ground for the true $\frac{1}{4}$ corner.

SURVEY RECORD No. 197

As the old gov't trees are in good shape and still standing we do not mark up any new ones. Going to the $\frac{1}{4}$ cor. on the w. side of sec. 19, T. 14 S., R. 29, we find a wood stake set from old gov't bearing trees for the true corner. This stake was set by Curo and is correct. We pull up the stake and put in its place a 2 x 4 8" galvanized iron pipe, capped on top, and set well into the ground, for the true $\frac{1}{4}$ corner, and mark up new bearing trees as follows: oak 6 S. 22° W. 65.75 feet. Dead oak 8 N. 84° W. 48 feet. All courses turn from true meridian and measurements taken from the center of the iron monuments to the face of the bearing trees. Magnetic variation is 8° 30'

Recorded August 15th 1912
John W. Curo Co Survey Co Minn

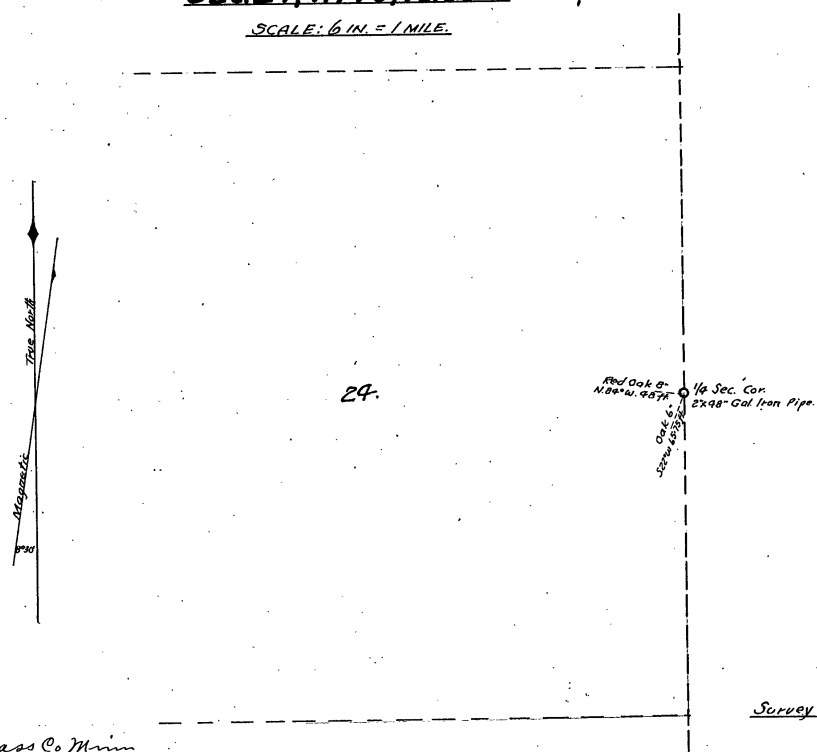
SEC. 24, T. 140, R. 30 W.
5TH P.M.

SURVEY RECORD No. 198.

Field notes of the survey and establishment of an iron 1/4 section corner in section 24, T. 140, R. 30, 5th principal meridian, as surveyed and established by Harry S. Todd, Deputy Co. Surveyor of Cass Co. Minn. examined, approved and recorded by John W. Curo, County Surveyor of Cass County, Minnesota.

Nov. 5th 1911. Harry S. Todd transitman, Earnest Surler and Frank Osborne apmrs, ironmen and chainmen. We go to the 1/4 corner on the east side of section 24, T. 140, R. 30. We find a wood stake set from old gov't bearing trees for the true 1/4 corner. This stake was set by Curo and is correct. We pull up the stake and set in its place a 2 x 48" galvanized iron pipe, capped on top and set well into the ground for the true 1/4 corner, from which the old government bearing trees check out for course and distance. We mark up new bearings as follows:
Oak 6 south 22° west 65.75 feet. Red oak 8 N. 84° W. 48 feet. All courses taken from the true meridian at 8° 30' magnetic variation, and measurements taken from the center of the iron monument to the face of the bearing trees.

PLAT
SEC. 24, T. 140, R. 30 W.
SCALE: 6 IN. = 1 MILE.



Recorded Aug 16, 1912.
John W. Curo, Co. Sur. Cass Co. Minn.

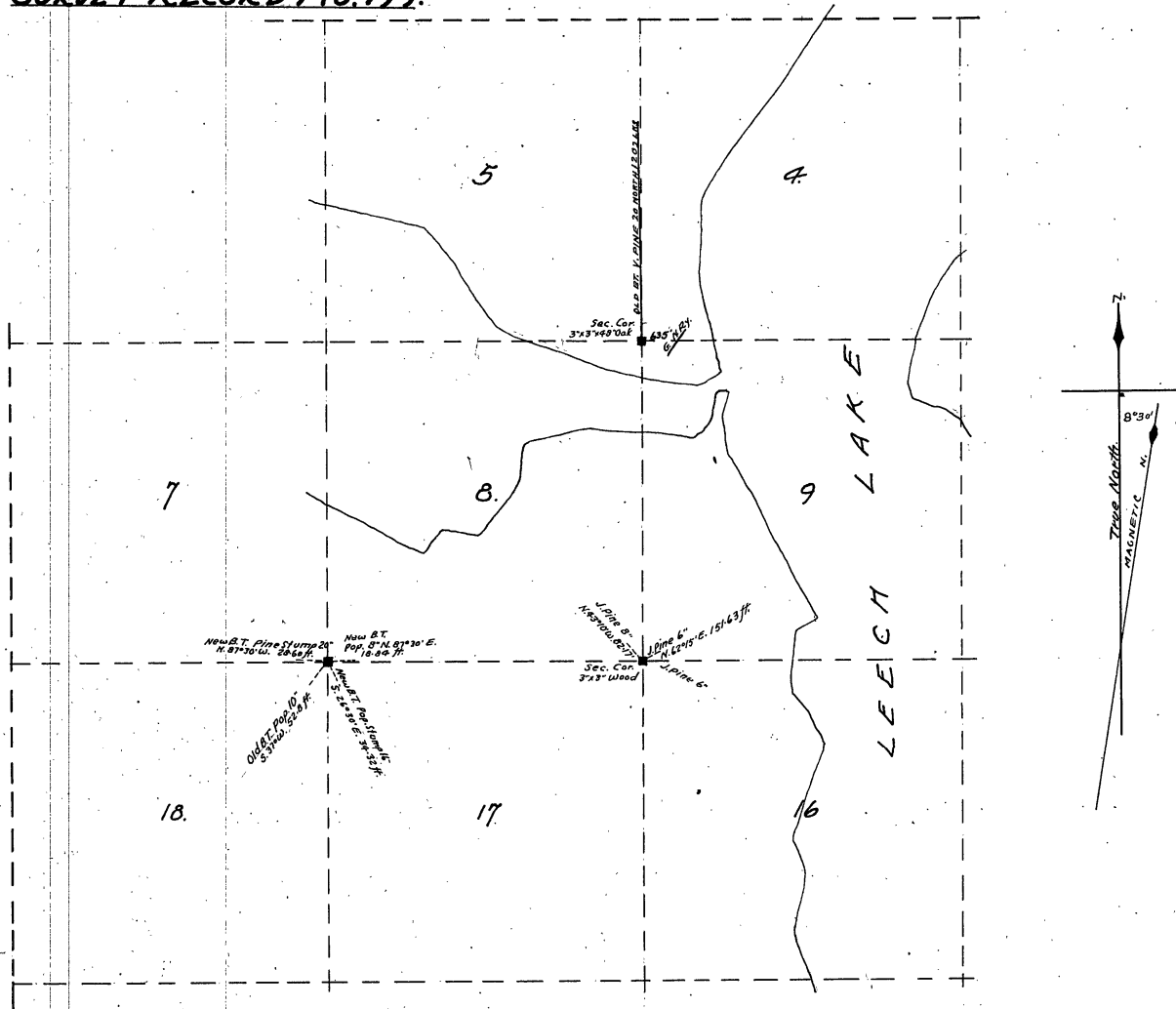
Survey made Nov. 5th, 1912.

A

PLAT
SECS. 4, 5, 7, 8, 9, 16, 17, 18, T. 142,
R. 31 W., 5TH P.M.

SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 199.



Recorded Aug. 17th, 1912.
John W. Cass County Surveyor Cass Co. Minn.

Survey made July 29th, 1912.

Field notes of the survey of a part of township No. 142 N. range No. 31 W. 5th principal meridian, through sections 4-5-7-8-9-16-17 and 18, as made by John W. Curo, County Surveyor of Cass County, Minnesota.

July 29th 1912. Harold J. Curo and Joseph Jakschi assisting. At the corner to sections 4-5-8-9, T. 142, R. 31, I once set a stake for the true corner from old gov't bearing trees, but as the stake appears to be gone, I relocate the corner from my old plat as follows.

Beginning at station No. 3499+00 of the old great northern railroad survey, at which point the east and west section line crosses the track, I set up and find that the railroad bears $N. 37^{\circ} W.$ I turn compass to the left 53° and at $10^{\circ} 30'$ magnetic variation, I run west 635 feet, where I set a $3 \times 3 \times 48$ inch oak stake, well into the bog for the true corner to sections 4-5-8-9, T. 142, R. 31. As there are no bearing trees near, I drive a tall stake two links west on line between secs. 5 and 8. And a hub and tack in the center of the great northern railroad track is on sec. line between secs. 4 and 9.

At the corner to sections 8-9-16-17, T. 142, R. 31, W. gov't notes call for a stake and the following bearing trees. Jack Pine 8 $N. 17^{\circ} E$ 96 links, Poplar 10 $46^{\circ} W$ 106 links. Jack Pine 10 $S 59^{\circ} W$ 97 links. Yellow Pine 20 $S 37^{\circ} E$ 130 links.

We find a 3×3 stake, set for the true corner at a point previously established by me, from the old government bearing trees. I mark up new bearings as follows. Jack Pine 8, $N. 43^{\circ} 10' W.$ 82.17 feet. Jack Pine 6 $N. 62^{\circ} 15' E$ 151.63 feet. We mark the trees "new B.T." All courses turned from the true meridian @ $8^{\circ} 30'$ var. From this corner we chain north on true meridian, and find the distance 8.30 feet to the center of the M. & N. railroad track. The stumps of the old S.W. and S.E. bearing trees check out for course and distance.

From this corner north, the sec. lines run on about $43^{\circ} 20'$ variation west, and the section line running east, runs on about $6^{\circ} 30'$ mag. var., and the section line running west runs on about 23° magnetic variation.

We go to the corner of sections 7-8-17-18, T. 142, R. 31, where gov't notes call for a stake and the following bearing trees.

Birch 4 $N. 68^{\circ} E$ 23 links. White oak 5 $N. 34^{\circ} W$ 25 lbs. Poplar 10 $S 37^{\circ} W$ 80 lbs. Poplar 6 $29^{\circ} E$ 28 links.

We find the S.W. poplar standing well marked, and the N.W. oak marked, but broke off with the stump 3 feet tall. We find the stump of the S.E. poplar, but the N.E. Birch is gone. We set an ask stake for the true section corner by measurement to face of bearing trees which check out perfect for measurement, after which the S.W. poplar bears $S. 38^{\circ} 30' W.$ and the N.W. oak stands $N. 41^{\circ} W.$ We mark new bearings as follows. Poplar 8 $N. 87^{\circ} 30' E$ 28 links (= 18.84 ft.) to face of figures, and is marked "new B.T." Pine stump 20 bears $N. 87^{\circ} 30' W.$ 28.60 ft. Poplar stump 16 bears $S. 26^{\circ} 30' E$ 34.32 feet at $8^{\circ} 30'$ variation.

We use a 100 link chain and a Gurley compass, with vernier set at $8^{\circ} 30'$ variation.

Recorded August 17th 1912

John W. Curo, Co. Sur. Cass Co., Minn.

SURVEY RECORD No. 200

Field notes of the survey of a part of township No. 143 N., Range No. 31 W., 5th principal meridian, through sections 28-29-30-31-32-33, as made by John W. Curo, County Surveyor of Cass County, Minn.

July 29th 1912. H. H. Burdick, M. A. Kemp, Harold J. Curo and I go up in Burdick's launch. Harold and I go to the corner to sections 29, -30-31-32, T. 143, R. 31, where government notes call for a stake and the following bearing trees: White Pine 10 S 23° W 20 lks. Aspen 4 N 26° W 20 lks. Aspen 4 N. 82° 30' E 44 lks.

Aspen 8 S 32° E 60 links. We find the old S.W. white Pine, standing green and plainly marked, from which we set a 3x3x42 inch oak stake for the true section corner, after which the roots of the S.E. and N.E. trees, and the stump marked "B.T." of the N.E. tree, check out for course and distance @ 8° 30' var.

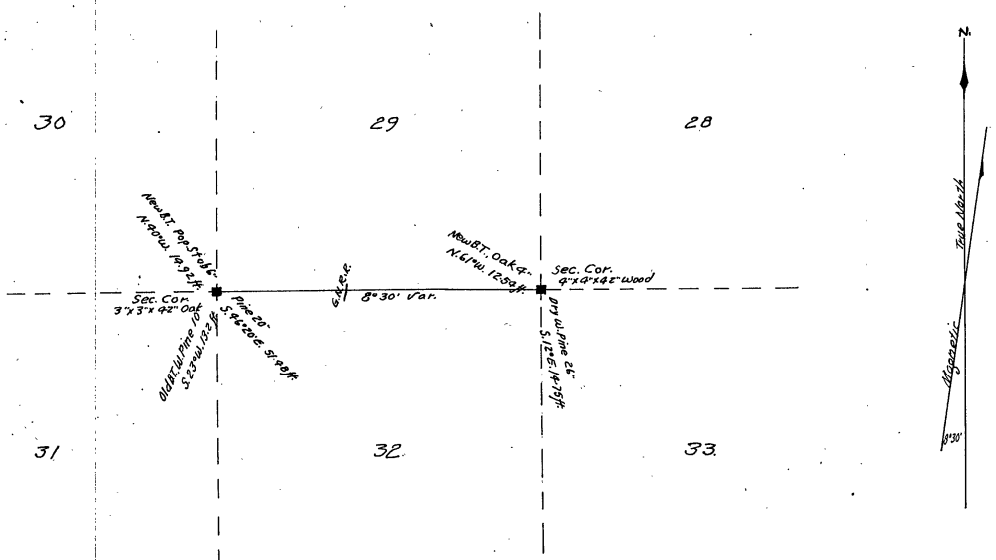
We take bearings to two newly marked up bearing trees as follows: Pine 20 S 46° 20' E 51.48 feet distance. Poplar stub 6 N 40° W. 14.92 feet distant.

From the corner to sections 29-30-31-32, just set, we run a compass line east on 8° 30' variation, at about 2100 feet, across G. N. R.R. at about 5280 feet rough chain we find the cor. to sec. 28-29-32-33-T. 143, R. 31, where gov't notes of the survey call for a stake and the following bearing trees:

Oak 6 N 80° E. 44 links: oak 6 S 85° E. 35 links. oak 8 S. 44° W. 59 lks. Norway Pine 28 N 26° W. We find the stump of the S.W. oak plainly marked, and the root S.E. and N.E. old oak bearing trees which check out with the old government stake, which still stands. We set a new 4x4x42 inch stake for the true corner, with new bearings as follows: Dry W. Pine 26 S 12° E 14.75 ft. Oak 4 N. 61° W. 12.54 ft. distant. We mark the trees "new B.T." We find the old N.W. bearing tree down and out by the roots and we find also three new bearing trees, of which we have no record. They appear to have been marked 15 or 20 years ago, and are as follows: Oak 12 S 55° W. Oak 10 N 70° 20' E. An old upturned Pine bears S 63° E. We use a 100 link Surveyor's chain and a Gurley compass with the vernier set at 8° 30' variation.

Recorded August 17th 1912.
John W. Curo Co Surveyor Cass Co Minn

PLAT SURVEY RECORD No. 200.
SECS. 28, 29, 30, 31, 32, 33 T. 143.
R. 31 W., 5TH P.M.
SCALE 3 IN. = 1 MI.

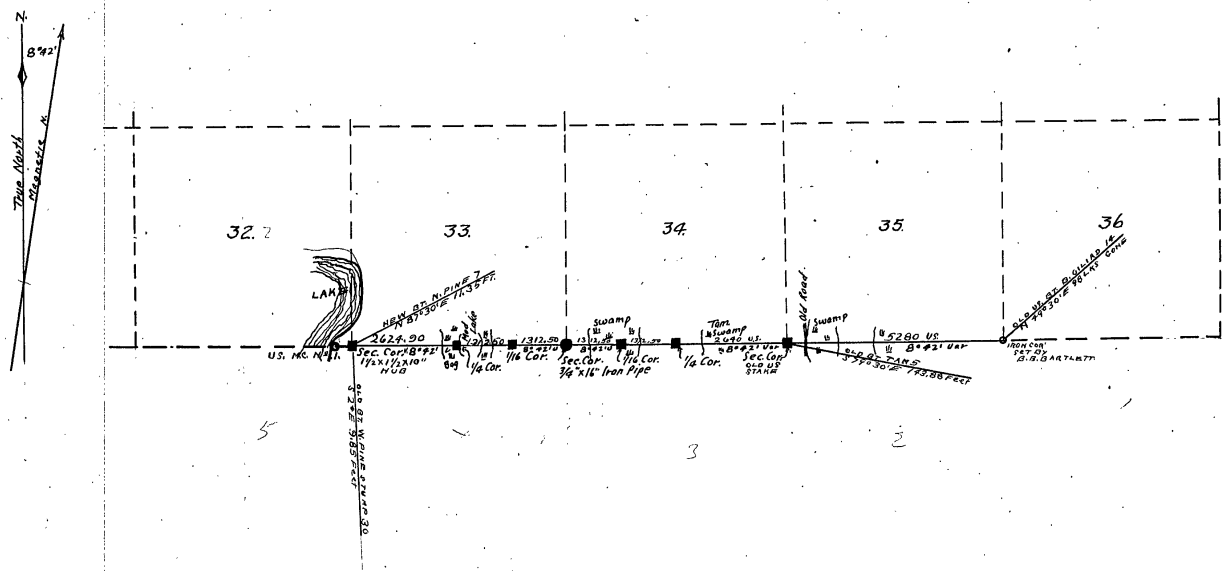


Survey Recorded Aug 17, 1912.
John W. Carr, Co. Surveyor Cass Co. Minn.

Survey made July 29th, 1912.

SURVEY RECORD NO. 201

PLAT
SECS. 32, 33, 34, 36, T. 135 N.,
R. 30 W., 5TH P.M.
SCALE: 2 INCHES = 1 MILE



Survey recorded Aug. 19, 1911.
John W. Curo, Co. Surveyors Cass & Minn.

Survey commenced Ap. 5th, 1911.
" finished Aug. 8, 1911.

Field notes of the survey of a part of township No. 135-N., R. 30 W., 5th principal meridian, through sections 32-33-34-35-36, as made by A. W. Moulster, Deputy County Surveyor for Cass County, Minnesota. Notes examined, approved and recorded by John W. Curo, County Surveyor, Cass County, Minnesota.

April 5th 1911. A. W. Moulster transitman and chairman; W. B. Clow, W. E. Bennett and Steve Collins apmen and chainmen. We go to the $\frac{1}{4}$ corner on south side of sec. 34, T. 135, R. 30, where gov't notes call for a stake and the following bearing trees: Sugar tree $18^{\circ} 20' E$ 70 links (= 1320 feet) Oak $145.69^{\circ} W$ 38 links (= 25.08 feet) We set the corner from the NE tree and run west on $8^{\circ} 30' var.$ Mr. Clow ch. and flag. at 372.15 hub. at 550 enter meadow. at 1320 hub, Temp. No. cor. at 2150 lv. swamp. at 2447 hub. at 2637 Hallett's sec. corner sets south. at 2640 set hub, temp. sec. cor. at 2951.70 hub. at 3964 85 set hub, at 3960 set hub temp. No. cor. at 4200 pin.

April 6th 1911. Continue west. Mr. Clow ch. and flag. Steve Collins, George Collins, W. E. Bennett, Frisky and Hemphill apmen. At 4500 enter swamp. at 4650 enter mud lake. at 4800 pin on ice. at 5250 lv. ice. at 5280 hub in swamp temp. $\frac{1}{4}$ cor. at 5700 lv. swamp. at 6156.60 hub. at 6473 enter small swamp. at 6575 lv. swp. at 6600 hub, temp. No. cor. at 6949 hub. at 7800 pin, at 7874.90 the corner to secs. 32 and 33 on the south side of T. 135, R. 30 sets south 28 feet. At this point I find the old gov't bearing trees and stumps, from which I set a $1\frac{1}{2} \times 1\frac{1}{2} \times 10$ inch hub for the true corner, after which at $9^{\circ} var.$ the old bearing trees stands as follows: White Pine stump $30 S 2^{\circ} E$ 9.85 feet. I mark new bearings as follows: N. P. 7 N. $87^{\circ} 30' E$ 11.35 feet.

April 7th 1911. S. Collins, H. Hemphill, Wm. Frisky apmen, Mr. Cole flag and chairman A. W. Moulster transitman. Correct the S. boundary of sec. 33, T. 135, R. 30, gov't. chain from the $\frac{1}{4}$ cor. on south side of sec. 34 west of the S.W. corner sec. 33 is 7874.90 feet my chain and equals 7920 feet gov't chain, being 45.10 feet short, and 2640 feet gov't. chain equals 2625 feet my chain, and 5280 feet gov't. chain equals 5250 ft. my chain. Hub 2640 goes east 15 feet and south 9.33 feet, where we place a stake for the true corner to secs. 33 and 34. Hub 5280 goes east 30 feet, and south 18.56 ft. where we place the $\frac{1}{4}$ corner on the south side of sec. 33. at 3960 we run east 22.50 ft. then south 14 feet, where we place No. corner west of the S.E. cor. of sec. 33.

April 8th 1911. W. E. Bennett, Geo. Collins, S. Collins, Hemphill and A. W. Moulster. At the corner to secs. 33 and 34 on the south line of T. 135, R. 30, I drive an iron pipe $\frac{3}{4} \times 16$ inches, left 4 inches above ground.

April 9th 1911. at hub 1320 west of the $\frac{1}{4}$ cor. on the south side of sec. 34, we run east 7.50 feet, then south 4.66 ft. and establish the No. cor. on south side of S.W. quarter, sec. 34, and correct the whole line west to the S.E. corner of sec. 32.

April 10th 1911. Same crew. At the $\frac{1}{4}$ corner on the south side of sec. 33, $\frac{3}{8}$ inches by 3 feet for the true $\frac{1}{4}$

April 12th 1911. we correct up the whole south boundary of sec. 33

April 14th 1911. we begin at the $\frac{1}{4}$ corner on the south side of sec. 34 and run east on $8^{\circ} 40' var.$ at 332.75 set hub. at 650 enter tam. swp. at 1320 hub, temp. No. I then lost my balance in getting over a log and smashed the transit and went to Pine River.

August 8th 1911. A. W. Moulster transitman, Steve Collins flag. and chairman, W. R. Clow apman. Continue on transit line east from where we broke the transit. at 1400 set pin. at 2450 enter north end small pug hole. at 2575 lv. same. at 2640 hub, temp. sec. cor. to sections 34 and 35, on south boundary of T. 135,

SURVEY RECORD No. 201

R. 30, where gov't notes call for a stake and the following bearing trees:
 Tamarac 5 south $74^{\circ}30' E$. 218 links (= 143.88 feet.) Tamarac 9 n. $37^{\circ} E$. 350 links (= 231 ft.) vari.
 reads $8^{\circ}40'$. I find the old gov't stake with the old marks showing plain over
 which I set the transit and find the old S.E. bearing tree, but no trace of the N.E.
 B.T. This is surely the corner, but as a check to make sure, I take the transit back
 and continue our line east. At 2800 and 3000 set stake, at 3100 cross wagon road
 and s., point crosses swamp, at 3800 lv. swp. - brush land. at 4000 hub. at 4700
 enter swp. at 5200 set stake. The bearing trees at the $\frac{1}{4}$ on the south side of sec.
 35 appear to be gone, I find an old stake which looks like Hallett's, but
 no bearing tree or stumps, and I do not use it. We walk one-half mile east
 to the corner of secs. 35 and 36, at which point the gov't notes call for a
 stake and the following bearing trees: B. Gilliad 14 n. $49^{\circ}30' E$. 98 links (= 64.68 ft.)
 Tamarac 7 n. $35^{\circ} W$. 114 links (= 75.24 ft.) Tam. 8 s. $74^{\circ} W$. 206 links (= 135.96 feet.) We find a
 stake at n. edge of river fully marked, also marked "B. B. B" which shows it
 was set by County Surveyor Bartlett. Standing beside the stake is a long
 piece of $\frac{3}{4}$ inch black iron pipe, well driven into the bank of the creek.
 This is evidently the true corner. Mr. Clow and Mr. Collins decide they will
 not survey sec. 3 of T. 134, R. 30, on account of fall work and expenses.
 The instruments used in this survey is a Heller and Brightly
 engineers' transit and a 200 foot Chicago steel tape.
 All courses turn to the true meridian.

Recorded Aug 20th 1912
 John W. Curo. Co. Surveyor Cass Co. Minn

SECS. 1 & 2, T. 135 N.
R. 31 W., 5 TH P.M.

SURVEY RECORD No. 202.

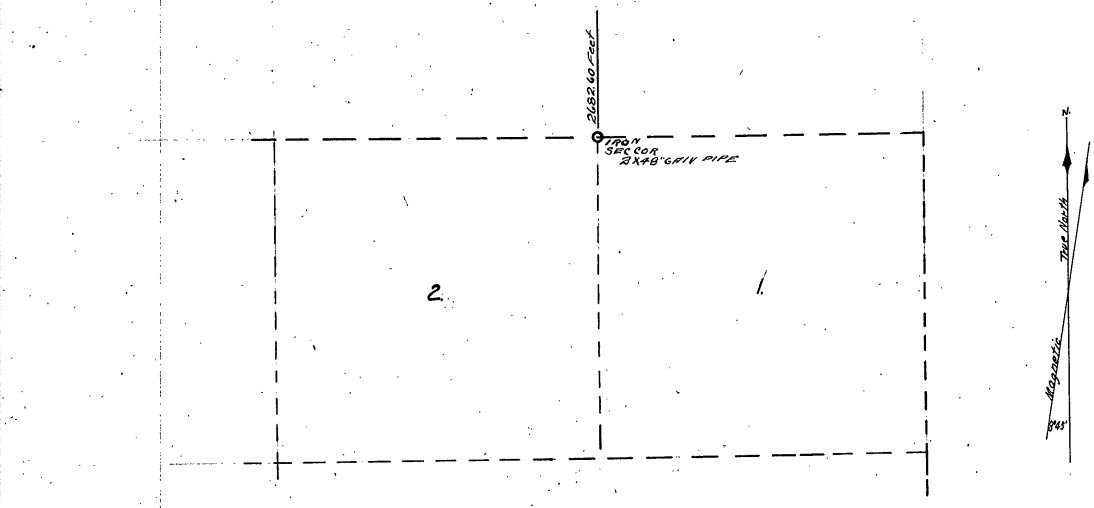
Field notes of the survey of a part of township no. 135 N. R. no. 31 W. 5th principal meridian, through sections 1 and 2, as made by A. W. Moulster, Deputy County Surveyor of Cass County, Minn., examined, approved and recorded by John W. Curo, Co. Surveyor of Cass Co., Minnesota.

June 8th 1910. A. W. Moulster transitman, John Jewell and W. J. Wenzholz assessors, Peter Nelson and Carl Nelson chainmen. We use a Heller and Brightly transit and a Chicago steel tape. At the corner to sections 1 and 2, on the N. side of township 135, R. 31, Government notes call for a stake and the following bearing trees.

Aspen 10 S. 29° W. 9 links. Aspen 14 S. 12° E. 30 links. Aspen 9 N. 10° W. 20 links. Aspen 12 N. 89° E. 18 links. We found an Aspen standing N. about 70° W. plainly marked "B.T." Found the other three rotten stumps, but only the N.E. and N.W. checked for measurement, and none of them checked for courses. I set a pin by proportionate measurement marking the point for the true corner, and at 8° 45' variation, the old stumps then stands as follows. Aspen 14 plainly marked "B.T." bears N. 67° 15' W. 13.20 feet. Rotten Aspen stump 14 not marked bears N. 88° E. 11.80 feet. Rotten Aspen stump 14 not marked bears S. 12° E. 19.80 feet. Rotten Aspen stump 10 - not marked - bears S. 59° W. 3.30 feet. I then set a 3 1/2 x 3 1/2 x 24" oak stake marked 35-36-1-2.

Oct 12th 1911 A. W. Moulster, H. Wenzholz, F. Conllyman go to north corner to sections 1 and 2, T. 135 N. R. 31 W. where we pull up wood hub and put in its place a 2 x 48 inch galvanized iron pipe capped on top and set this bottom set in bed of concrete and stone for the true corner.

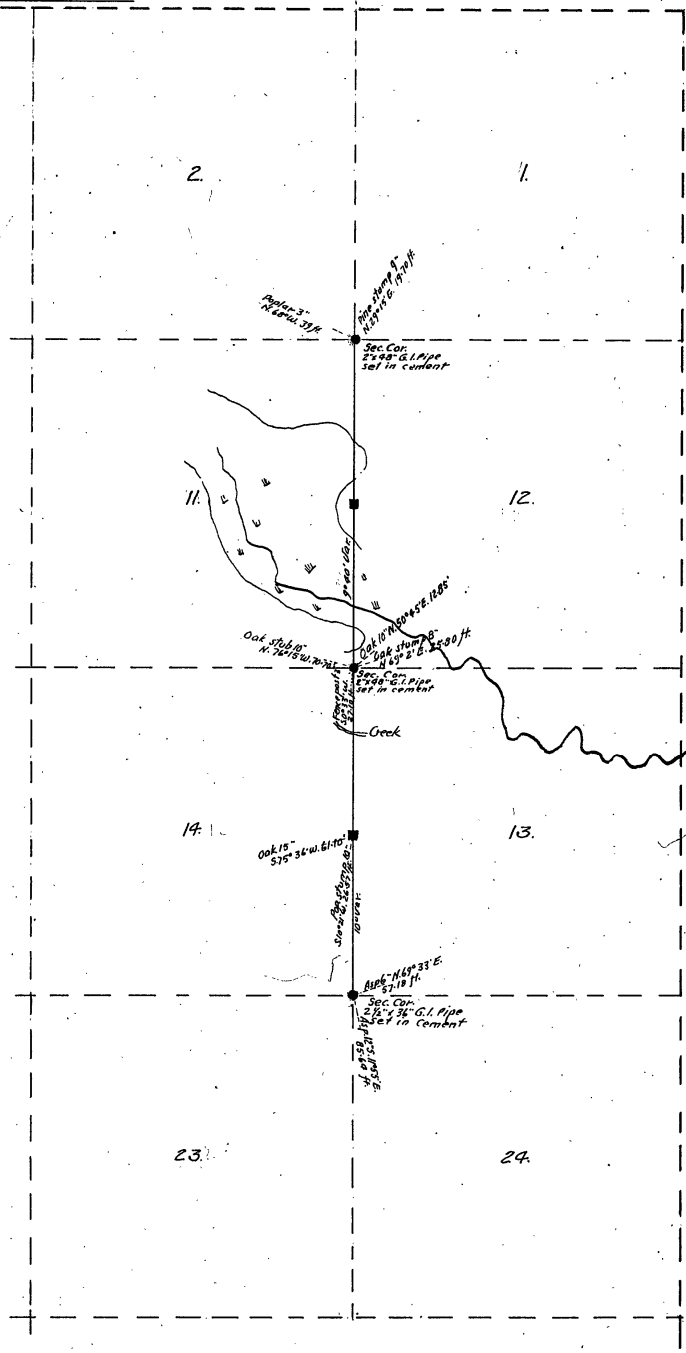
PLAT
SECS. 1 & 2, T. 135 N., R. 31 W.
5 TH P.M.
SCALE 3 IN. = 1 MI.



Survey made June 8th, 1910.
Iron Set Oct 12, 1911.
recorded Aug 20, 1912.
John W. Curo, Co. Surveyor Cass Co. Minn.

PLAT
SECS. 1, 2, 11, 12, 13, 14, 23, 24,
T. 133, R. 31, 5TH P.M.
SCALE 3 IN. = 1 MILE

SURVEY RECORD No. 203.



Survey recorded Aug 21st, 1912
John W. Cuss Co. Surveyors Cass Co. Mo.

Survey commenced July 20, 1912
" finished July 24, 1912.

Field notes of the survey of a part of township No. 133 N. Range No. 31 W., 5th principal meridian, through sections 1-2-11-12-13-14-23-24, as made by John W. Curd, County Surveyor of Cass County Minnesota, assisted by Harry S. Todd, Deputy Co. Surveyor.

July 20th, 1912. John W. Curd transitman and chainman. Geo. Brown and W.A. Wilson, apmen and chainmen. Allen Wright apman. We use a Heller & Brightly Engineers transit and a 300 foot Chicago steel tape.

At the $\frac{1}{4}$ corner between sections 11-12, T. 133, R. 31, Gov't notes call for a stake and the following bearing trees. Black Oak 6 S. 88° E. 27 links (= 17.82 feet.) Black Oak 8 S 24° 45' W. 7 links (= 4.62 feet.) We find both stumps dimly marked which check out perfect for course and distance to face of stumps, from which I set a hub and tack for the true $\frac{1}{4}$ corner.

Mr. Wilson saw these stumps 28 years ago, when the trees stood, and were more plainly marked. Mr. Wilson assisted County Surveyor Whitely to set the stake for this $\frac{1}{4}$ corner, and our new hub just set, goes in the old stake hole, made by Mr. Wilson and Mr. Whitely, from here we cut a line south at 9° 35' variation, about half a mile to an east and west wagon road, which is built on a E. and W. section line.

At this point being the corner to sections 11-12-13-14-T. 133-R. 31, we set a hub and tack for the true corner, from old government bearing trees and put in new bearings as follows. Oak 10 N. 50° 45' E. 12.85 feet to iron marker, and 12.60 feet to attack head. Oak stump 8, N 69° 2' E. 25.80 feet. Fence post 3 S 0° 33' W. 27.10 feet. Oak Stub 10 N. 76.15' W 70.70 feet to tack heads at 9° 35' var. It is 29 feet N. to a point in line with Wilson's fence which runs east.

With transit at $\frac{1}{4}$ between secs. 11-12, focus telescope on flag set at the corner to sec. 11-12-13-14, and find it runs on 9° 40' var. We cut out the big trees and set a line of stakes along the true sec. line to mark the center of the new proposed wagon road and instruct the apmen to clear out a narrow line to mark the road center more plainly.

July 21st 1912. Curd and Brown go to the corner to secs. 1-2-11-12, T. 133, R. 31, we find the stump of the southeast old bearing tree which checks out perfect with a stone set by Char. S. Bundy, at a point where some previous surveyor had set a stake for the true corner, we take up the stone and put in its place a hub and tack and mark up the following new bearing trees. Pine Stump 9 bears N. 29° 15' E. 19.70 feet. Poplar 3 N 68° W 39 feet, to tack heads at 9° 35' var. We then cut a line half a mile west to Geo. Brown's house.

July 22nd 1912. Geo. Brown, Henry Jackson Brown and Curd, go to the corner to secs. 13-14-23-24, T. 133, R. 31, where we find a big oak stump, which we believe is the old S.W. bearing tree called for in the Gov't field notes, but as we do not have time to examine it, decide to send Todd & his crew down here to put in the corner.

July 24th 1912. Harry S. Todd with R. & E. transit and 300 feet steel tape. Geo. Brown apman; begin at the $\frac{1}{4}$ between 11-12 and drive a row of stakes half a mile N. along the true section line to the corner to secs. 1-2-11-12, T. 133, R. 31.

Beginning at corner to secs. 11-12-13-14, run S. on 8° 45' var. at 1560 cross creek bears N.W. 4. E. at 2337 set hub. Henry Brown and Allen Wright apmen and chainmen.

July 25th 1912. Todd at the transit continue south. At 2640 feet set hub for temporary $\frac{1}{4}$ corner, between secs. 13 and 14, the true

$\frac{1}{4}$ bears east 35.25 feet. At this point the gov't notes call for a post and the following bearing trees. Oak $N57^{\circ}30' E$. 7 links (= 4.62 feet) Oak $16 N. 77^{\circ} W$. 46 links (= 30.36 ft.) We find both old stumps which check out perfect with an old stake hole, where we set a new stake for the true $\frac{1}{4}$ corner and mark new bearings as follows. Oak $15 S 75^{\circ} 36' W$ 61.10 feet. Poplar stump $10 S. 10^{\circ} 21' W$. 26.57 feet, at $9^{\circ} 50'$ var. and from the true $\frac{1}{4}$ corner run south on 10° var. at 1210 cross wire fence bears E+W. at 1286.90 set hub. at 2644.40, the true corner to sections 13-14-23-24 - T. 133 - R. 31, bears E. 1.25 feet. At this point we find the stump of the S.W. oak bearing tree called for in the gov't field notes, and the roots of the N.W. and S.E. bearing trees from which we set a stake for the true corner after which courses and measurements check out perfect to the old bearings. We pull up the stake and put in its place a $2\frac{1}{2} \times 3\frac{1}{2}$ inch galvanized iron pipe set in a bed of concrete for the true corner and mark new bearings as follows. Aspen $12 S. 11^{\circ} 55' E$. 85.64 feet. Aspen $6 N. 69^{\circ} 33' E$. 57.18 feet. At the corner to sections 1-2-11-12 - and at the corner to sec. 11-12-13-14 T. 133, R. 31, we pull up the wood stakes set by Curd, and put in each place a $2\frac{1}{2} \times 3\frac{1}{2}$ inch galvanized iron pipe, set in a bed of concrete for the true corner at each place. All courses turned from true meridian.

Recorded August 21st 1912
 John W. Curd Co. Surveyor Cass Co. Minn.

SECS. 13 AND 24
TWP. 141 N., R. 30 W., 5 TH P.M.

SURVEY RECORD No. 204

Field notes of the survey and establishment of new corners and new bearing trees in a part of Twp. 141 n., R. 30 w., 5th. P.M. Meridian, through Sections 13 and 24, as made by John W. Curo, County Surveyor of Cass Co., Minnesota, assisted by Harry S. Todd, Deputy Co. Surveyor.

Oct. 15th, 1912. At the South East Cor. of Sec. 13, being the North East Cor. of Sec. 24, Gov't. notes call for a stake and the following B.T's. Tamarac 12" N. 66° E. 26 lks., Cedar 5" N. 67° W. 37 lks., Tam. 7" S. 25° W. 18 lks., Cedar 10" S. 11° E. 16 lks. We find all four bearing trees which check out for course and distance, from which we set a 3"x3"x36" cedar post for the true corner and mark up new B.T's. as follows: Run N. 80° 15' W. in Sec. 13 a dist. of 30.42 ft to an 8 in. ash. Run N. 30° 15' E. 20.95 ft. to a 3 in. ash. Run S. 37° 30' E. 13.40 ft. to an 8 in. cedar. Run S. 41° W. in Sec. 24 a dist. of 18.10 ft. to an 8 in. cedar.

Oct. 28th, 1912. Run South on 8° 30' var. in cedar swamp, at 760 lvs. timber and enter open swamp; at 798.20 set hub in swamp, at 1320 set temp. 1/16 Cor., lv. swamp, at 1350 cross wagon road, bears E. & W. at 1982 set hub, at 2631.80 true 1/4 Cor. on C. side of Sec. 24 bears W. 32.50 ft.

At this point Gov't. notes call for a stake and the following bearing trees: W. Pine 10" N. 64 1/2° E. 39 lks., W. Pine 6" N. 31 1/2° W. 44 lks. We find the stump of the N. E. tree plainly marked, and the roots of the N. W. tree, from which we set a 3"x3"x36" oak stake for true 1/4 cor. and mark up new bearings as follows: Pop. 3" N. 63° E. 26.50 ft., Pop. 3" S. 60° E. 20 ft.

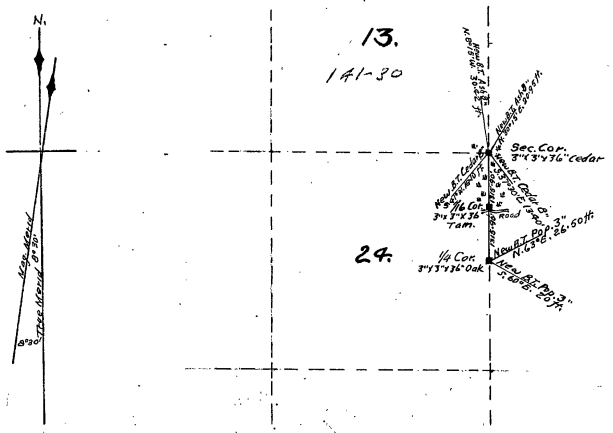
Correcting back North at hub 1320, we run N. 4.10 ft. to 1315.90 ft. S. then W. 16.25 ft. where we set a 3"x3"x36 in. tam. post for true 1/16 Cor. with bearings as follows: W. Pine 6" S. ° ° W. ft., Dead W. Pine 8" S. ° ° E. ft.

All courses turned from the true meridian at 8° 30' mag. variation. Chas. White, O. B. Sveringer, Ole Larson, Guy A. Todd and John Rom assisted as axmen and chainsmen. Harry S. Todd transitman.

Survey begun Oct. 15th, 1912, and finished Oct. 31st 1912.

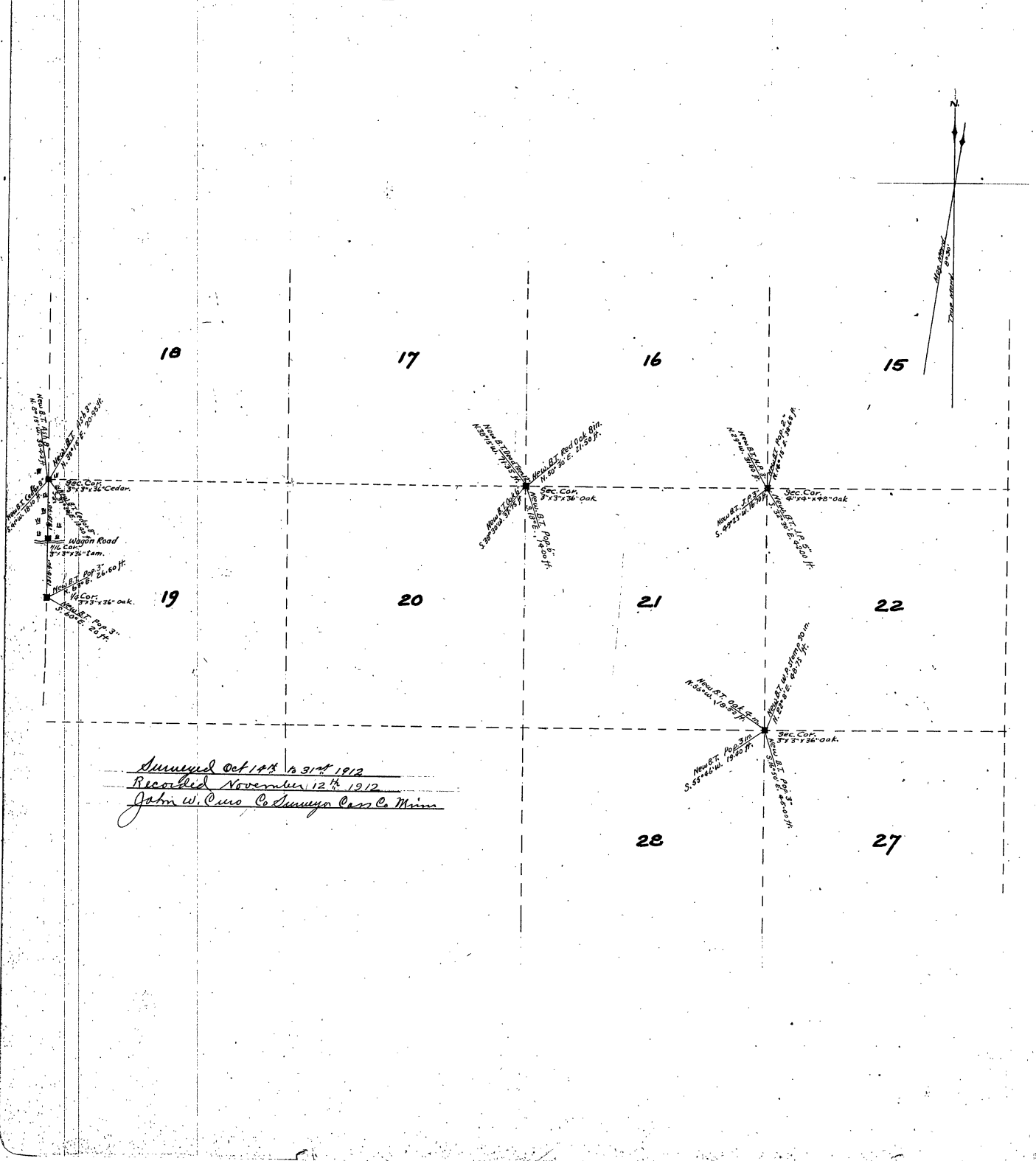
PLAT.
SCALE: 2 IN. = 1 MI.

Surveyed Oct. 15th to 31st 1912.
Recorded Nov. 11th 1912
John W. Curo, Co. Sur. Cass Co. Minn



PLAT
SECS. 15, 16, 17, 18, 19, 20, 21, 22, 27, 28.
TWP. 19 N. R. 29 W. 5TH P.M.
SCALE: 3 in. = 1 mi.

SURVEY RECORD No. 205.



Surveyed Oct 14th to 31st 1912
Recorded November 12th 1912
John W. Curo Co Surveyors Cass Co. Minn

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22

Field notes of the survey and establishment of new corners and new bearing trees in a part of Township No. 141 N., R. No. 29 W., 5th Princ. Merid., through Sections 15, 16, 17, 18, 19, 20, 21, 22, 27 and 28, as made by John W. Curo, County Surveyor, Cass Co., Minnesota, assisted by Harry S. Todd, Deputy Co. Surveyor, Cass Co., Minn.

Oct. 14, 1912. At the corner to Secs. 15, 16, 21, 22, Gov't. notes call for a post and the following bearing trees: Oak 8" --- 62° E. 62 lks., Poplar 3" S. 10° E. 32 lks., Y. Pine 20" S. 43° W. 67 lks., Y. Pine 12" N. 39° E. 32 lks. We find the old N. C. and S. W. trees, but they are 1 ft. too far apart, and after establishing the point for the corner by proportionate measurement, the old S. C. tree stands perfect for course and distance. We set a 4 x 4 x 48 inch oak stake for the true corner, and mark up new bearing trees as follows: Run S. $49^{\circ} 45'$ W. in Sec. 21, 16.70 ft. to a 5 inch J. Pine; Run S. $32^{\circ} 30'$ E. in Sec. 22, 42.00 ft. to a 5 inch J. Pine; Run N. 29° W. in Sec. 16, 31.80 ft. to a 3 inch Norway Pine. Run N. $14^{\circ} 15'$ E. in Sec. 15, 38.65 ft. to a 2 inch poplar.

Oct. 15, 1912. At the Cor. to Secs. 16, 17, 20, 21, Gov't. notes call for a stake and the following bearing trees: Oak 5" N. 68° E. 5 lks., Maple 6" N. 66° W. 7 lks., Oak 10" S. 62° W. 25 lks., Birch 5" S. 57° E. 6 lks.

We find the S. W. tree standing green, plainly marked and the stumps of the other old trees, from which we set a 3 x 3 x 36 inch oak stake for the true corner, and mark up new bearing trees as follows: Run N. $50^{\circ} 30'$ E. in Sec. 16, 21.50 ft. to an 8 inch red Oak. Run N. $38^{\circ} 15'$ W. in Sec. 17, 71.35 ft. to a dead 12 inch tamarac. Run S. 18° E. in Sec. 21, 14.00 ft. to a 6 inch poplar. Run S. $38^{\circ} 30'$ W. in Sec. 20, 37.75 ft. to a 5 inch oak.

Going to the S. W. Cor. of Sec. 18, being the N. W. Cor. of Sec. 19, where Gov't. notes call for a stake and the following bearing trees: Tamarac 12" N. 66° E. 26 lks., Cedar 5" N. 67° W. 37 lks., Tamarac 7" S. 25° W. 18 lks., Cedar 20" S. 11° E. 16 lks.

We find all four bearing trees, which check out for course and measurement, from which we set a 3 x 3 x 36 inch cedar post for the true corner, and mark up new bearings as follows: Run N. $8^{\circ} 15'$ W. 30.42 ft. to an 8" ash. Run N. $30^{\circ} 15'$ E. in Sec. 18, a distance of 20.95 ft. to a 3 inch ash, Run S. $37^{\circ} 30'$ E. in Sec. 19, a distance of 13.40 ft., to an 8 inch cedar. Run S. 41° W. 18.10 ft. to an 8 inch cedar.

Oct. 28, 1912. Beginning at the N. W. Cor. to Sec. 19, run South on $8^{\circ} 30'$ mag. var., in cedar swamp. At 760 lv. timber, enter open swamp at 798.20 set hub in swamp, at 1320 set temp. 1/16 corner, at 1350 cross wagon road, bears W. and C., at 1982 set hub, at 2631.80 true 1/4 Cor. on West side of Sec. 19 bears West 32.50 ft. At this point Gov't. notes call for a stake and the following bearing trees: W. Pine 10" N. $64\frac{1}{2}^{\circ}$ E. 39 lks., W. Pine 6" N. $31\frac{1}{2}^{\circ}$ W. 44 lks. We find the stump of the N. C. tree plainly marked, and the root of the N. W. tree, from which we set a 3 x 3 x 36 inch oak stake for the true 1/4 Cor. and mark up new bearing as follows: Pop. 3" N. 63° E. 26.50 ft., Pop. 3" S. 60° C. 20 ft. Corrected ~~to~~ oak north: at hub 1320 we run N. 4.10 ft. to 1315.90 S., then W. 16.35 ft.

where we set a 3x3x36 inch tamarac post for true 1/4 Cor. with new bearings as follows:
 W. Pine 6 S. W. ft., Dead W. Pine 8" S. E. ft.

Oct. 31st, 1912. At the corner to Secs. 21, 22, 27, 28 you'll note call for a post and the following bearing trees: W. Pine 12" N. 2° E. 43 lks., W. Pine 18" N. 23° W. 18 lks., Y. Pine 24" S. 21° W. 14 lks., W. Pine 18" S. 24° E. 56 lks. We find the stumps of all four trees, plainly marked except the N. C. stump, and also find an old stake which we pull up and put in its place a 3x3x36 inch oak stake and mark up new bearings as follows:

Run S. 16° 50' E. in Sec. 27, 45.00 ft. to a 3 inch poplar; Run S. 55° 46' W. in Sec. 28, 19.40 ft. to a 3 inch poplar. Run N. 56° W. in Sec. 21, 18.52 ft. to a 4 inch oak. Run N. 22° 8' E. in Sec. 22, 48.75 ft. to a 30 inch white Pine Stump.

All courses turned from the true meridian at 8° 30' mag. var.
 Charles W. Kiker, C. B. Sveringer, Ole Larson and Guy A. Todd and John Born assisted as axmen and chainmen; Harry S. Todd, transitman. Survey begun Oct. 14th and ended Oct. 31st, 1912

Recorded November 12th 1912

John W. Curo, C. Surveyor Cass Co. Minn

Sec/5 Cont'd On Page	Book
- 16	" " "
- 17	" " "
- 18	" " "
- 20	" " "
- 27	" " "
- 22	" " "
- 27	" " "
- 28	" " "

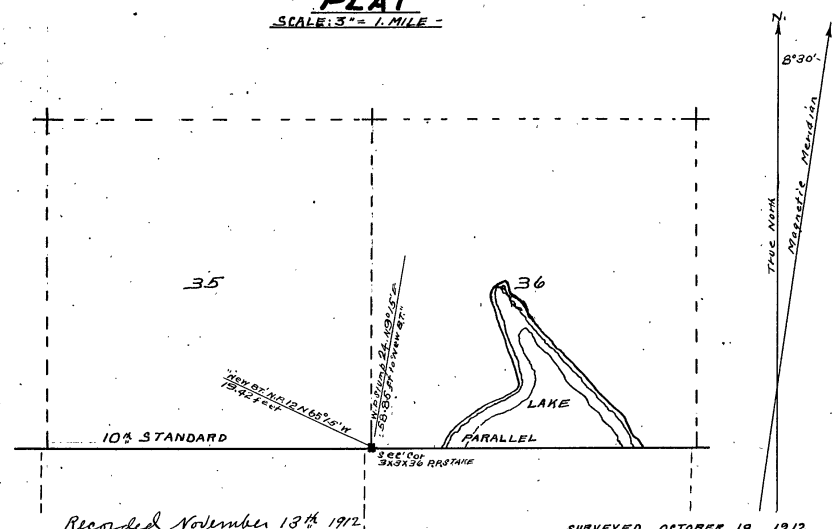
Sections 35 and 36
T. 141. R 27. 5th P.M.

Survey Record No 206.

Field notes of the survey and establishment of a new corner and new bearing lines, in a part of Township No 141st, Range No 27th 5th Principal Meridian in Sections 35 and 36, as made by John W. Curo, County Surveyor of Cass County Minnesota, assisted by Harry S. Todd, Deputy County Surveyor of Cass County Minn.

October 18th 1912: at the corner to Sections 35 and 36, on the South boundary of Township 141st, Range 27th; government field notes call for a post and the following bearing lines: yellow pine 14, N 75° W, 21 links. Aspen 14, N 46° E, 26 links; We find the yellow pine, standing green and plainly marked, and the stump of the "Aspen", which check out perfect for course and measurement, from which we set a 3x3x36 inch pitch pine stake for the true Section corner and mark up new bearing lines as follows: run N 65° 15' W. in Section 35, a distance of 19.42 feet to a Norway pine tree which is 12. inches in diameter and which we mark: "New B.T."; then from the true corner we run N 9° 15' E in Section 36, a distance of 58.85 feet to a 24 inch white pine stump which we mark: "New B.T." All courses turned from the true Meridian at 8° magnetic variation. Magnetic Meridian bears N 8° E. Harry S. Todd, transitman; Guy A. Todd and Mark Snell, axmen and Chainmen. Survey made Oct 18th 1912
 Recorded

PLAT
SCALE: 3" = 1 MILE



Recorded November 13th 1912
 John W. Curo, Co. Surveyor Cass Co Minn.

SURVEYED OCTOBER 18 1912

- PLAT -	
Sec 35 Cont'd On Page 568 Book A	36
- NOTES -	
Sec 35 Cont'd On Page 569 Book A	36

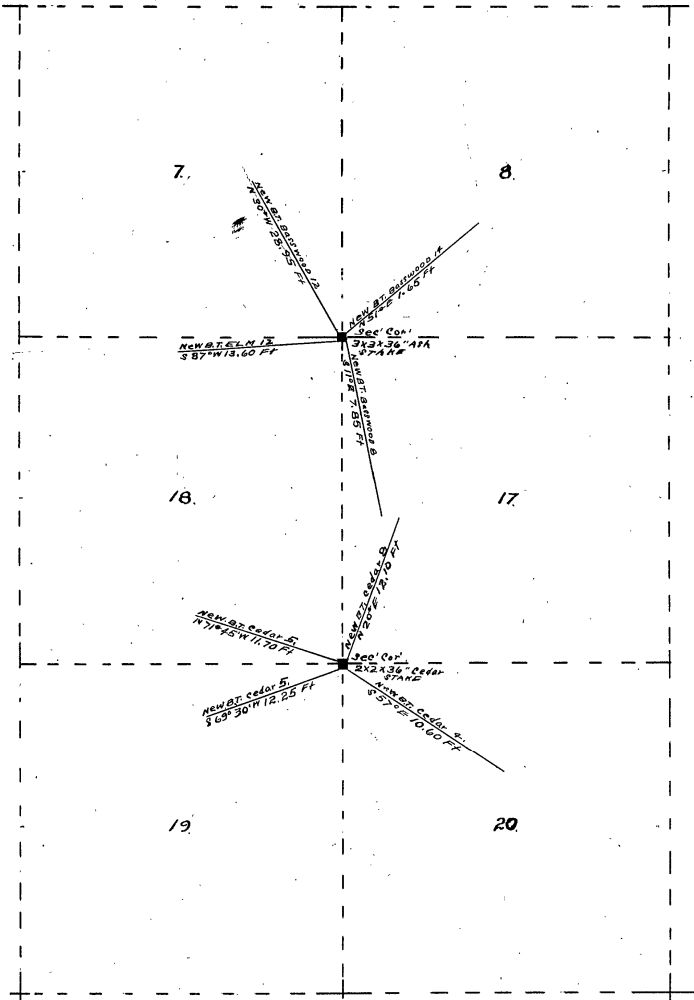
- PLAT -			
Sec. Cont'd From Page 1418 Book			
17	"	"	528
20	"	"	528

PLAT

Sec's 7, 8, 17, 18, 19, 20
TWP 140^N R9. 27^W
5th P.M.

Scale: 3/8 inches = 1 mile

SURVEY RECORD NO 207



Recorded Nov 14th 1912
 John W. Cass, Co. Survey Co. Minn.

SURVEYED OCTOBER 19th 1912

Sec	Cont'd On Page	Book
7	"	"
8	"	"
17	"	"
18	"	"
19	"	"
20	"	"

NOTES	
Sec. Cont'd From Page This Book	
17	427
20	427

Sections 7, 8, 17, 18, 19, 20
Twp 140, Rg 27, 5th P.M.

SURVEY RECORD No 207.

Field notes of the survey and re-establishment of section corners that are becoming obscure and the setting of new stakes and marking of new bearing lines in Sections 7, 8, 17, 18, 19 and 20. Township N= 140 N, Range 27 W, 5th Principal Meridian, as surveyed by John W. Curo, County Surveyor of Cass County Minnesota, assisted by Harry S. Todd, Deputy County Surveyor of Cass Co Minn

October 19th 1912: At the corner to Sections 7, 8, 17, 18, field notes of the United States survey call for a post and the following bearing lines: Basswood 7, S 15° 30' E, 13 links: Ironwood 9, N 40° W, 137 links: Ironwood 10, N 17° 30' E, 17 links: Basswood 12, S 45° 30' E, 45 links: We find that the 12 inch "Basswood" called for in the notes, really stands S 45° 30' W, instead of "S 45° 30' E". We also find the "Basswood 7, S 15° 30' E" called for in the notes, also the old N.E. bearing line and from these three bearing lines, we establish the point for the true section corner where we drive a 3 x 3 x 36 inch Oak Stake, from which we mark up new bearing lines as follows: Basswood 12, bears N 30° W, in Sec 7, a distance of 28.95 feet
 Basswood 14, bears N 51° E, in Section 8, a distance of 1.65 feet
 Basswood 8 bears S 11° E, in Section 17, a distance of 7.85 feet
 Elm 12 bears S 87° W, in Section 18, a distance of 13.60 feet. each of these new bearing lines we mark "New B.T."

We go to the corner of Sections 17, 18, 19, and 20 where notes of the Gov't survey call for a post and the following bearing lines: Spruce 5, N 52° 20' E, 4 links: Tamarac 5, N 18° 15' W, 2 links: Tamarac 6, S 14° 30' E 11 links: Tamarac 6, S 51° 15' W, 6 links.

We find all four of the old bearing tree stumps and an old stake set six years ago by Curo, and from the old stumps we re-establish the point for the true corner, where we drive a 2 x 2 x 36 inch Cedar stake and mark up new bearings as follows:

- Cedar 4 bears S 57° E, in Sec 20, a distance of 10.60 feet
- " 5 " S 69° 30' W in Section 19, a distance of 12.25 feet
- " 5 " N 71° 45' W in Sec 18 a distance of 11.70 "
- " 8 " N 20° E " " 17 " " " 12.10 "

Each of the new bearing lines we mark "New B.T." All courses lined from the true Meridian. Magnetic Var N 8° E.

Harry S Todd transitman, Guy A. Todd and Mark Snell a men and Chainmen. Survey made Oct 19th 1912.

Recorded Nov 14th 1912

John W. Curo, Co Surveyor Cass Co Minn

Sec	Cont'd On Page	Book
7	"	"
8	"	"
17	"	"
18	"	"
19	"	"
20	"	"

Field notes of the survey and establishment of a permanent iron $\frac{1}{4}$ corner and new bearings, between sections 16 and 17, Twp. 140 N., range 28 W., 5th principal meridian, as surveyed by John W. Curs, County Surveyor of Cass County Minnesota.

December 22nd. 1912. John W. Curs, compassman: A. W. Moatesman, Geo. C. Williams and Willis Sanford, chainmen: we use a Gurley Surveyors compass and a 100 foot steel tape.

At the $\frac{1}{4}$ section corner between sections 16 and 17, township No. 140 N., Range No. 28 W., of the 5th principal meridian, the field notes of the original United States survey calls for a post and the following bearing trees: Norway Pine 20, N. 10° W., 164 links. White Pine 7, S 45° E., 128 links. We find the tall stump of the S. E. White Pine, standing plainly marked, "B. T." from which we establish the point for the true $\frac{1}{4}$ corner, where we drive a pine pole five feet long, down into a little swamp. The pole acts as a piling over which we drive a galvanized iron pipe, being 2 inches in diameter and 4 ft. long, having an iron cap on top. We drive the piling and iron solidly into the swamp until only 24 inches of the iron sticks above the moss, and is the true $\frac{1}{4}$ corner from which we mark new bearings as follows.

White Pine stump 36, bears N. 76° 50' W., 106.65 feet, to the "B." mark, as we mark the stump "1/4, B.T.". Norway pine stump 16, bears N. 11° 35' W., 121, feet, to the "B." mark, as we mark this stump "1/4 S. B.T.".

The stump of the old S. E. bearing bears S. 45° E., 128 links. = (84. 45 ft.) distant. We turn our angle from the true N. & S. section line which we assume as the true meridian, Compass needle reads N 8° 30' E.

This corner sets in a little swamp, and I find the roots of the old N. W. bearing tree which check out for course and distance.

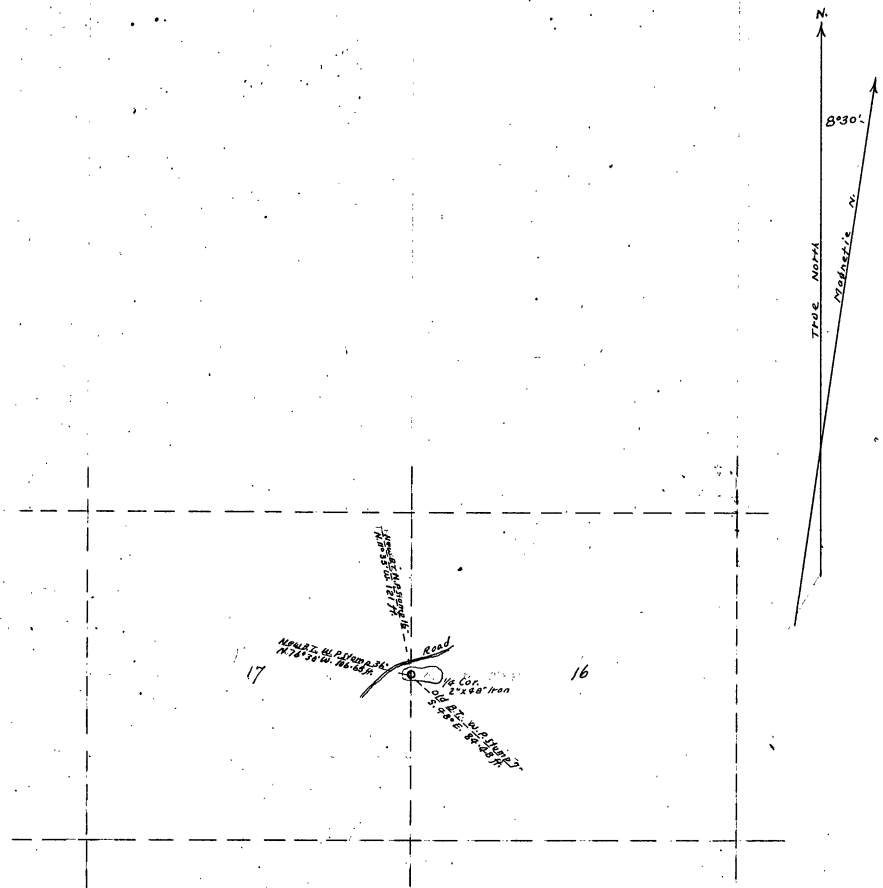
We chain north at 8° 30' var. and at 150 feet rough chain, we intersect the Hackensack-Songville stage road which bears N. E. + S. W.

Recorded December 24th. 1912

John W. Curs, Co. Surveyor Cass Co. Minn.

PLAT
SECS. 16 & 17
T. 140 N. R. 28 W. 5TH P.M.
SCALE 3" = ONE MILE

SURVEY RECORD No. 208.



Recorded December 24th 1912
John W. Cuss, Co. Surveyors Cass Co. Minn.

SURVEYED DEC 22 1912.

SURVEY RECORD No. 209

SECS. 6.	Twp. 139.	R. 28 W.	5th P.M.
" 30 & 31.	" 140.	" "	" "
" 1.	" 139.	" 29	" "
" 25, 35, 36	" 140.	" 29	" "

Field notes of the survey of a part of section 6, township 139 N, Range 28 W, and sections 30, 31, Township 140 N, range 28 W, and section 1, Township 139 N, range 29 W, and sections 25, 35, and 36, Township 140 N, range 29 W, of the 5th principal meridian, as surveyed by A. W. Moulster, deputy County Surveyor of Cass County Minnesota, examined, approved, and recorded by John W. Curo, County Surveyor of Cass County, Minn.

The instruments used is a new Heller & Brightly Engineers transit in perfect adjustment and a 200 foot Chicago steel tape with plumb-bob used in taking measurements over uneven ground, March 16th, 1912. A. W. Moulster transitman and chairman.

Emil Mork, apman; Walter Thorpe flagman and chairman.

We go to the 4 corner on the south side of section 36, T. 140, R. 29, being the 4 corner on the north side of section 1, T. 139, R. 29, where we find a stake set by County Surveyor Curo, for the true 4 corner, being set from old U.S. bearing trees and has new bearings as follows.

White pine stump 30, bears S. 54° 22' E, 66.45 feet to tack head.

White pine stump 30, bears S. 38° 12' W, 43.22 feet to tack head.

We chain East along the graded road, rough chain to the corner of sections 5 and 6, T. 139, R. 28, being the corner to sections 31 and 32, of twp. 140, R. 28, where government notes call for a stake and the following bearing trees. Tamarac 6 N 11° E. 62 links. (= 40.92 feet).

Tamarac 6 N 43° W, 66 links. (= 43.56) ft. We find both tamarac bearing trees, rotten and down but plainly marked, and we find a stake set by Curo for the true corner. The stake sets in a little lake and on account of the water, appears to be about 6 inches to far north.

Going a mile west to the township corner, I relocate the point previously established from old Gov't bearing trees, by Curo, for the true corner to Townships 139 and 140 north, ranges 28 and 29 west, where I drive a 3½ inch spruce hub for the true twp. cor. and mark up new bearings as follows. Poplar 10 N. 62° 43' E. 53.98 feet.

Norway pine 7, N. 25° 27' W, 41.40 feet. Norway pine 8 S. 32° 31' W. 54.16 feet @ 8° variation. Distance from twp. cor. west to 4 between sects. 1 and 36 is 2628.50 feet.

March 17th, 1912. From the township corner just set we run north between sections 31 + 36, on 8° variation. @ 155.70 set hub @ 450 enter small bog E. + W. @ 650 lv. bog. N.W. + S.E. @ 688.35 set hub. @ 800 set pin in tag alders. @ 1000 enter marsh of little Mule Lake. At 1434.18 feet we look for meander corner no. 2, of sec. 36, being no. 53, for sec. 31, where original notes call for a post and the following

bearing trees: Tamarac 5, S 10° W, 50 links, Tamarac 6, S 70° E. 20 links. All are gone and we continue transit line north. @ 1450 feet enter ice of little Mule lake, which bears N.E. & S.W. at 2800 lv. lake and enter marsh. at 3400 ft. lv. marsh. at 3779.16 feet look for meander corner No. 1. of sec. 36, being numbered "54" for sec. 31 where notes call for a stake and the following bearing trees. Tamarac —. N 87° W, 90 links. All are gone and we continue transit line North. @ 4001.15 hub. @ 4024. ft. enter big Mule lake. @ 4971.12 pin on ice, being distance North where we should look for meander corner No. 3. of sec. 36, and numbered 52 for section 31, where Gov't notes call for a stake and the following bearing trees. White maple 7, S 73° W, 22 links. White Birch 7, 73° E. 12 links. Of course the corner is not away out here on the ice, so we go back to the shore and look for same and as all traces of the corner is gone we continue our transit line north. @ 6706 lv. lake. @ 6709.75 hub on beach. @ 6737.00 meander corner no. 5, of sec. 25, being No. 44, for sec. 30, sets east 46.92 feet. At this point Gov't notes call for a stake and the following bearing trees. Norway pine 20, N. 60° W 10, links. @ 6.60 feet. Norway pine —. N. 85° E. 16 links @ 10.56 ft.

We find the stump of the old N.W. bearing tree plainly marked with a part of the body of the tree lying near. This corner has previously been established by County Surveyor Curo, who has marked the stump "M.C." I re-establish the true meander corner by course and chain from the face of the old stump, @ 5° var. and mark the old stump "B.T." The distance from the S.E. corner of twp. 140, R. 29, north to this meander corner, according to the notes returned by the United States in its survey of the same, calls for 7663.26 feet where our chain only finds 6737.00 feet, being 926.20 feet short U.S. chain

Correcting line back. Hub No. 4001.15 goes east 28 feet. Hub. 3683.50 goes east 25.70 ft. At a point on corrected line, 4001.10 ft. N. of twp. cor. I put in a new meander corner, between secs. 36 and 31, on south side of big Mule lake, with bearings as follows. Poplar 7, S — E. 8.88 feet. Birch 5, S — W. 4.90 feet. I could not take courses on account of deep mud on the bank of lake.

Saturday March 18, 1911. To find the line between secs. 25 and 36, 140, 29, I go to meander corner no. 9, where Gov't notes call for a post and the following bearing trees: White Birch 8, S 2° E. 8 links (= 6.28 feet.) White Birch 7, N. 40° E. 17 links. (= 11.22 ft.) I find both bearing trees, the N.E. a stump and the S.E. standing, both rotten, the N.E. one plainly marked. I set the point for the true "M.C." by flat chain from face of the old bearings, and drive a 3/4 inch iron for true M.C. 9, of Twp. 140-29 after which the old bearings stand, Birch stump 7, N. 42° 30' E. 11.22 feet Birch 8, S 3° 30' E. 5.28 feet. I put in new bearings as follows. Balm-of-Gilead 4-N. 49° 20' E. 7 ft. White pine 14 S 89° 47' E. 26.80 ft.

Then run East on 5° magnetic variation. At 236.35 tack in log. 400 pin in small clearing. @ 520 enter meadow. 1400 lv. same. 1587.10 tack in 4 inch log. At 1812. ft. enter Black Water lake. Meander corner No. 8 is gone, and I continue transit line East. @ 2000. pin on ice. @ 2413. lv. lake, @ 2433.90 East, Meander

M.C. No. 1
No. 54

No. 3-52

No. 5-54

M.C. of Sec. 36-31

Sec 25-36
No. No. 9

No. 8

SURVEY RECORD NO. 209.

M.C. No 7

cor. No. 7, sets north 18.10 feet. I find M.C. No. 7 previously established by County Surveyor Curs, set from old U.S. bearing trees, with new bearings as follows: Birch stump 8, S 15° 14' E. 3.40 feet. Poplar 6 N, 58° 53' E. 41.80 feet.

Correcting back west I set hub 1587.10, north 11.80 feet, then with transit on M.C. No. 7, I back sight on corrected hub. 1587.10 and run East. M.C. No. 7, = 00 = 2433.90 E. @ 102 cross main stage road, bears N.E. + S.W. @ 600 enter small meadow: 700 lv. same: 982 hub. on bank of lake: @ 985 enter Big Mule lake: Meander corner No. 4, and all bearing trees are gone. Starts to rain at 5:30. P.M. + we quit for the night.

No 4

Sunday March 19th, 1911. By the U.S. Plat and notes of the survey of twp. 140, R. 29, the distance from M.C. No. 9, to M.C. No. 7, is 2425.50 feet and by my chain 2434. feet. Difference, 8.50 feet. U.S. chain from M.C.

No 9-7

No. 9, to M.C. No. 4, = 3415.50 feet, and my chain to water edge is 3419. feet. Difference 3.50 ft. U.S. chain from M.C. No. 8, to No. 7, is 627 feet, and by my chain from water edge to M.C. No. 7, is 622 ft. By U.S. notes the $\frac{1}{4}$ between 25 and 36

1/4 25-36

sets 396 ft. west of M.C. No. 7, and 231 ft. East of M.C. No. 8, so by proportionate measurement the $\frac{1}{4}$ corner sets 2036.50 ft. East of M.C. No. 9, and 397.50 feet west of M.C. No. 7. The $\frac{1}{4}$ should set between M.C. No. 9, and M.C. No. 7, they being

M2 No 9-7

the only U.S. corners now in existence between sec. 25 and 36. U.S. chain from M.C. No. 9, to M.C. No. 7, is 2425.50 feet and equals 2434 ft. my chain. The $\frac{1}{10}$ corner East of the $\frac{1}{4}$ corner between sec. 25 and 36 sets

1320, minus 397.50 feet, equals 922.50 feet east of M.C. No. 7, where I put in new bearings as follows: White Pine stump 20, N. 15° 22' E. 19.60 feet. Pine stub 18, S. 59° 15' E. 51.85 feet. Course turned from the true east + west line

Monday March 20th 1911. Same crew except that Arthur Johnson helps us as axman in P.M. At 2271.50 feet east of M.C. No. 7, on true E. + W. line, we cross N. + S. random line, at a point in Big Mule lake, 5332.40 feet north of the S.E. corner of the township.

Sec 36

North boundary of sec. 36, runs on 8° 33' var. true line.

1/4 25-36

Setting on the $\frac{1}{4}$ corner bet. 25 + 36, 140-29 which is on the ice, I run south on 8° var. At 159 ft. tack in 5 inch balsam stump. At 259.80 tack in 12 inch aspen stump. At 324. cross road N.E. + S.W. At 400 enter $\frac{1}{2}$ acre meadow. At 941.90 tack in log. 1320 hub, temp. $\frac{1}{10}$ corner: at 1595 tack in 6 inch oak log. at 2119.10 tack in log. 2375 enter small meadow N.E. + S.W. at 2500 lv. same: at 2640 set hub, for temporary center of sec. 36: at 3048 cross Pine River + Longville road N.E. + W. at 3102 hub. 3260 enter N.E. + S.W. marsh of Little Mule lake. 3950 enter tamarac: 4000 pin in tamarac:

1-2-35-36

March 21st 1911 continue south: At 4100 lv. tamarac: at 4249 hub driven in log: 4911.15 hub: at 5330.45 ft. south, the $\frac{1}{4}$ corner on south side of sec. 36 sets East 84.00 feet. At the corner to sections 1, 2, 35, 36, twp. 139 and 140, R. 29, Gov't notes call for a stake and the following bearing trees:

White Pine 16, N. 5° E, 28 links. Birch 9, N. 40° W 35 links. Birch 8 S 50.4° W. 14 links. Norway Pine 15 S 83° E. 9 links. We find a stake set by Curs, for the true cor. and as it checks out with the old bearing trees we run north on 8° var. between 35 and 36. Magnetic var. 8° East. At 200 ft. pin in Elton's garden: at 451.75 set hub. Walt. Thorpe chain & flag: Emil Mork and Arthur Johnson, axmen: A. W. Moulster transitman and chainman.

SURVEY RECORD No. 209.

At 907 set hub. At 1320 ft. set hub for temporary $\frac{1}{4}$ corner, enter Walt Thorpe's clearing. 1432.10 hub in clearing: 1700 lv. clearing: 1900 enter low land: 2100 lv. same: 2310 enter meadow: 2550 lv. same: 2640 set hub. As the $\frac{1}{4}$ corner between 35 and 36 is lost we continue transit line north: at 2896 set hub: at 3050 enter brush meadow: 3100 lv. same: at 3450 enter swamp: at 3960 set hub in swamp for temporary $\frac{1}{4}$ corner: at 4300 lv. swamp: at 4368.50 tack in log: at 4390. road bears N.E. & S.W.

1/4-35-36

M.C. No. 10

March 22nd 1911. Continue north: at 4492.50 Meander corner N. 10, sets West 9.05 feet. At this point being M.C. No. 10, Got notes call for a stake and the following bearing trees: White Birch S. 55° E, 4 links (=2.64) ft. White Pine 6, S 55° W, 25 links (=16.50 ft.) I find both old bearing trees plainly marked, from which I set a stake for the true Meander cor. by flat chain from face of figures after which the old trees stand as follows: Pine stub 12 S, 31° 41' W, 16.50 feet. Birch stump 8, S 55° E, 2.64 feet. We mark up new bearing as follows: Pine stump 14, bears S. 45° E, 3.17 at 5' over.

1/4-35-36

As the distance from the S.W. corner, of sec. 36, north to M.C. No. 10 is 4455.00 U.S. chain, and equals 4492.50 my chain, being 37.50 feet longer than the old notes call for, we set the $\frac{1}{4}$ corner, between secs. 35 and 36, by proportionate measurement so at hub 2640. N. we chain 22.20 ft. north to 2662.20 then west 5.30 feet where we drive a small hub in a large white pine log for the true $\frac{1}{4}$ cor. between secs. 35 and 36, T. 140, R. 29, with new bearings as follows: White pine stump 24 S. 28° 45' W, 17.40 ft. Oak stump 20, N. 13° 45' W, 30.40 feet. 8° variation. Run East through center of 36, 8° variation at 625.50 set hub: at 1786.10 feet set hub: at 1850 enter meadow: at 2450 lv. meadow: at 2650.35 the true center of sec. 36, sets north 40.90 feet.

Sec 36

We correct the N.S. random line and establish the true N. & S. center line of sec. 36, as follows. At 5330.45 ft. south, the true $\frac{1}{4}$ on S. side of sec. 36 sets east 84. feet. hub. 2640 sets 25.20 ft south to 2665.20 then east 42.00 ft. where we drive a hub. for the true center and mark new bearings as follows: White pine stump 30, N, 40° 5' W, 31.80 feet.

White pine stump 30, S 43° 25' W, 21.08 feet: 8° 30' variation. Correcting further, hub 159, goes east 2.50 feet to true N. & S. line: hub 259.80 goes east 4.10 feet, 941.90 goes east 15.00 feet: 1320. goes east 20.80 feet: 15-95. goes east 25.10 ft.: 21.19.10 goes east 33.40 ft. To correct the random line bet. secs. 35 and 36, hub 451.75 sets west 0.90 feet: 907. sets west 1.80 ft. 1320 sets west 2.60 ft. and north 11.10 ft.: 1432.10 sets west 2.90 feet to the true sec. line

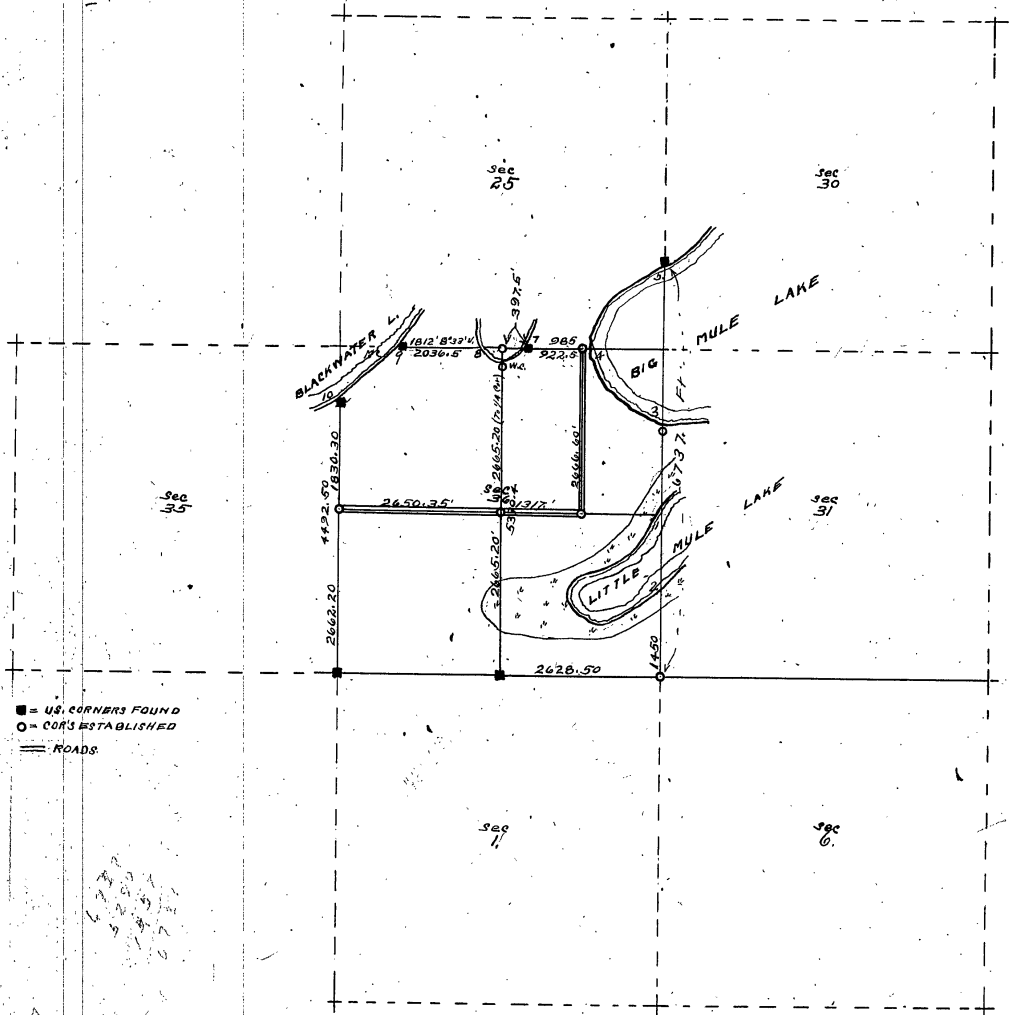
35-36

Correcting the E. & W. center line of the west half of sec. 36: At 2650.35 East, The centre sets north 40.90 ft. hub. 1786.10 sets north 27.68 ft.: hub 625.50 north 9.70 feet:

Sec 36

Thursday March 23rd 1911. With transit set on true centre of sec. 36-140-29 I back sight on corrected hub No. 1786.10 and run east on true center line: at 150 enter small meadow: 200 lv. same: at 412 cross Pine River Songville stage road N.E. & S. At 434.75 set hub. At 600 pm in slope: at 1317 I set a 3x3x2.4 inch poplar stake for the true $\frac{1}{4}$ corner,

PLAT.
SURVEY RECORD No. 209
SECS. 6, T. 139 N., R. 28 W., 5TH P.M.
" 30 & 31 " 140 " 28 "
" 1 " 139 " 29 "
" 25, 35, 36, " 140 " 29 "
 SCALE: 3 INCHES = ONE MILE



■ = U.S. CORNERS FOUND
 ○ = COR'S ESTABLISHED
 ——— ROADS

1457
 2036.5
 7.86

Recorded December 28th 1912
 John W. Cass, Co. Surveyor Cass Co. Minn.
 SURVEYED MARCH 16th 24th 1911

SURVEY RECORD No. 209.

Sec 36

In the center of the east half of sec. 36 with bearings as follows:
 Poplar 65, N. 57° 4' W 26.75 feet; White pine stump 20 N. 50° E. 45.90 feet; angle turned from true E. + W. line. From the $\frac{1}{4}$ corner in the center of the east half of sec. 36, I run north on 8° 20' variation east. At 110.85 tack in large stump
 At 267.50 cross Pine River - Longville road E + W. at 506.40 set hub. at 800 enter tam bog; at 1075.50. bog; at 1320 set hub. at 1875.15 tack in basswood stump.
 At 2300 set hub. offset around an old house; run 12 feet east then north: at 2666.60 ft. north, the true $\frac{1}{4}$ corner sets east 4.80 feet; added to the 12 foot offset makes 16.80 ft. east of our random line. Correcting back south hub 2300 sets east 14.20 feet; hub. 1875.15 goes east 11.80 ft. hub 1320 goes east 8.40 feet, and north 13.30 ft. where we drive a stake for the true $\frac{1}{4}$ corner in the center of the N.E. quarter of sec. 36. Hub 506.40 goes east 3.20 ft. hub 110.85 sets east 0.70 of a foot.

Friday March 24th 1911. Thorpe, Mork and Moulster work. Where the N. + S center line of sec. 36 - 140 - 29 enters lake at north end, I put in a Meander corner 2.50 feet south of water's edge, and 159 feet south of the true $\frac{1}{4}$ corner and mark new bearings as follows:

Tamarac 14, S 76° 48' W, 8.35 feet; Soft Maple 6, 34° 6' W, 9.13 feet at 8° 30' variation

Survey made March 16th to 24th 1911.

Recorded December 28th 1912.

John W. C. no. Co Surveyors Cass Co. Minn

SURVEY RECORD No. 210.
SEC. 4, T. 137 N. R. 29 W., 5TH P.M.
" 33, T. 138 N. R. 29 W., "

Field notes of the survey of a part of section 4, Township 137 N., Range 29, W., and sec. 33, Twp. 138 N. R. 29 W., 5th Principal Meridian, and the establishment of permanent iron and concrete sections, quarter sections and sixteenth corners, as surveyed and established by Harry S. Todd, Deputy County Surveyor of Cass County, Minnesota, examined, approved and recorded by John W. CURS, County Surveyor of Cass County, Minn. Harry S. Todd transitman and chairman; Russell D. Brown as man and chairman. At the S.E. cor. of sec. 4, being the S.E. cor. of sec. 33, U.S. field notes call for a stake and the following bearing trees. Black pine 10, N. 14° E. 17 links. Black pine 8, S 10° W, 22 links. Black pine 9, N 30° W, 103 lks. Black pine 7, S 14° E. 30 lks. We find the stump of the S. E. tree plainly marked, and the stumps of the other three trees dimly marked from which we set a wood stake for the true section corner, then go west half a mile to the 1/4 corner between sec. 4 and 33, where Gov't notes call for a stake and the following bearing trees. Black pine 5 N 10° E. 190 lks. Aspen 4, S. 40° E. 133 lks. We find the B. Pine called for in the notes from which we set a wood stake for the true 1/4 corner, which comes in whole in the ground where the old stake was once set by the survey made by the United States

From the 1/4 corner just set we run a transit line east on 8° 35' mag. variation: at 900 feet enter swamp: at 1320 ft. set hub for temporary 1/8 corner. at 1800 ft. lv. swamp: at 1999.50 feet set hub: at 2000 cross road which bears N. + S.: at 2617.30 ft. the true southeast corner of sec. 33, Twp. 138, R. 29, bears S. 17.05 ft.

Correcting back hub. 1320 goes west 11.35 ft. to 1308.65 east, then south 5.54 ft where we set a galvanized iron pipe 2 1/2 inches thick by 4 feet long, capped on top with a 3 inch galvanized iron cap, and drove well into the swamp for the true 1/8 corner, as the swamp is wet we do not use any cement and as there are no trees near we do not mark any bearing trees.

At the S.E. cor. of sec. 33 being the N.E. cor. of sec. 4, we pull up the wood stake and put in its place a 2 1/2 inch by 48 inch galvanized iron pipe having a 3 inch cap on top and set well into the ground in a bed of cement and sand for the true sec. cor. from which we mark up new bearing trees as follows: Jack pine stump 10, bears N. 39° 16' E. 16.70 feet. Jack pine 6, N. 71° 30' W. 52.50 ft.

Going to the 1/4 corner between sec. 4 and 33 we pull up the wood stake set by us for the true corner, and put in its place a 2 1/2 x 48 inch galvanized iron pipe, having an iron 3 inch cap on top. set well into the ground in a bed of concrete the true 1/4 corner. We mark new bearings as follows: Telephone pole N.W. 26.50 feet. Willow 4, N.E. 58.50 feet.

The instruments used in this survey is a Keuffel & Esser Engineers transit and a 300 foot steel tape.

Survey made June 22^d & 4th 1912.

Recorded December 28th 1912.

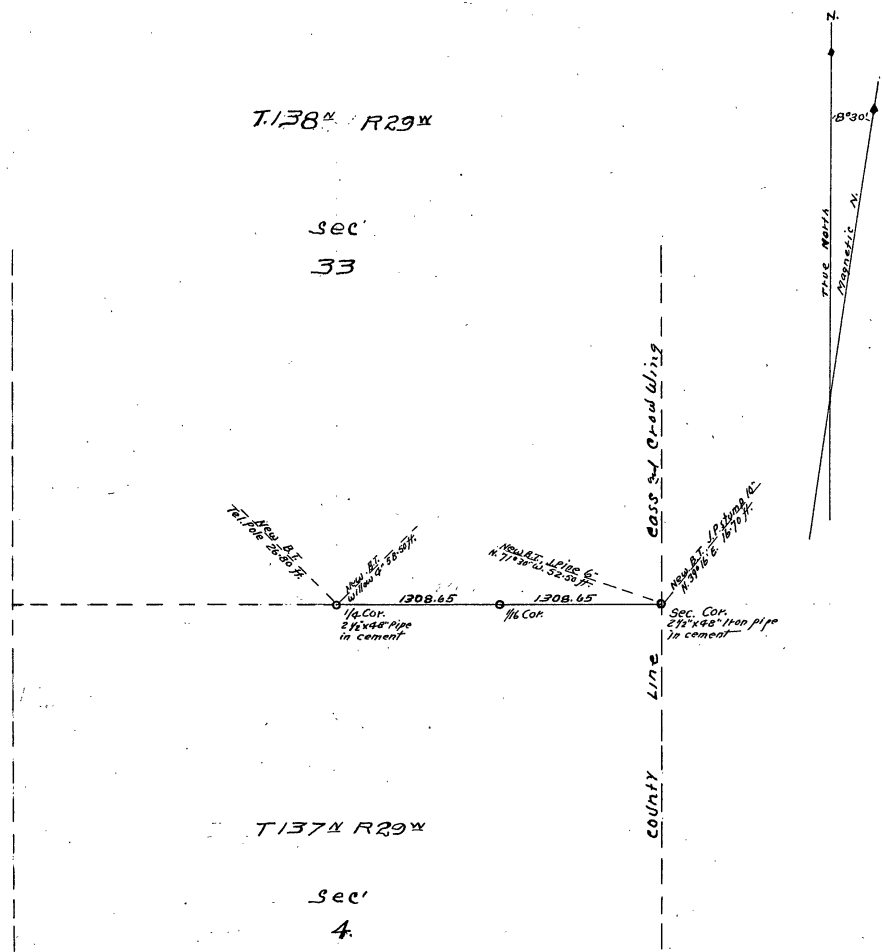
John W. CURS, Co. Surveyor Cass Co. Minn

-PLAT-
Sec Cont'd From Page This Book
4 " " 327

PLAT.
SEC. 4, T. 137 N., R. 29 W., 5TH P.M.
" 33, T. 138 N., R. 29 W. "

Scale: 3" = 1 MILE

SURVEY RECORD No. 210.



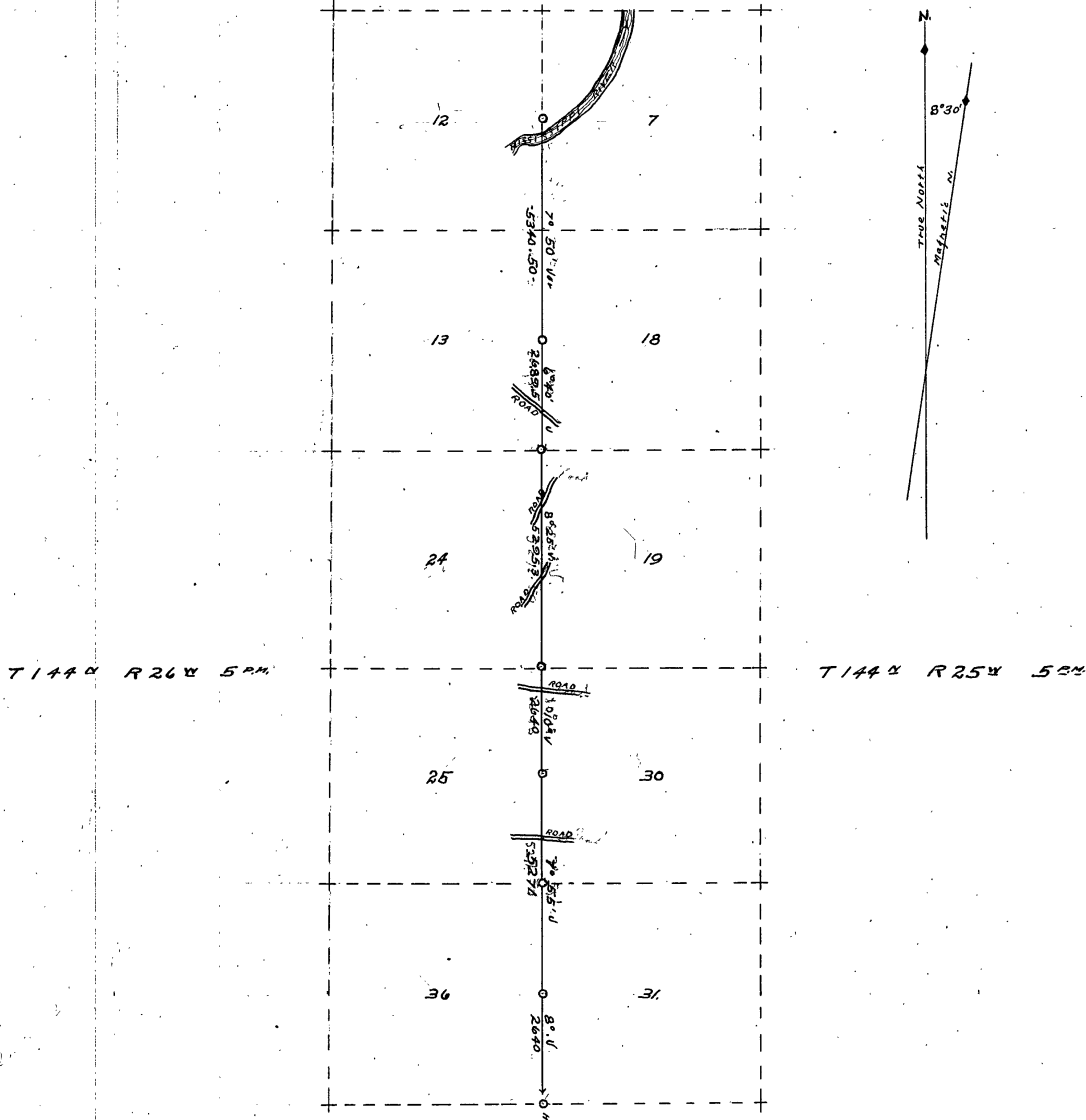
Recorded December 28th 1912
John W. Cass Co. Surveyors Cass Co. Minn.

SURVEYED JUNE 3rd AND 13 1912.

PLAT.
SECS. 7, 18, 19, 30, 31, T. 144 N. R. 25 W. 5TH P.M.
" 12, 13, 24, 25, 36, T. 144 N. R. 26 W. "

Scale: 2" = 1 Mile

SURVEY RECORD No. 211.



Recorded Dec 28th 1912
John W. Co. Surveyors Cass Co. Minn.

Surveyed Feb 19 1912 & March 3rd 1912.

Field notes of the survey of a part of sections 7-18-19-30 and 31 of Twp. 144 N. R. 25 W. and sections 12-13-24-25 and 36, of township 144 N., R. 26 W. of the 5th principal meridian: As Surveyed by Harry S. Todd, Deputy County Surveyor of Cass County Minnesota, examined, approved and recorded by John W. Curo, County Surveyor of Cass County Minn. The instrument used in making the survey is a Keuffel & Esser Engineers transit in perfect adjustment, and a 300 foot Chicago steel tape and a plump-bob used in taking measurements over un-even ground.

At the corner to sections 18 & 19-13 and 24 on range line between Twp. 144 N. ranges 25 and 26, govt notes call for a stake and the following bearing trees: Birch 6 N. 84° E. 16 lks. Cedar 7, N 80° W 15 links. Cedar 6 S 55° W, 14 lks. Cedar 5 S 80° E. 18 lks. We find the N.W. & S.W. old bearing trees plainly marked from which we set a stake for the true section corner. The N.E. & S.E. old trees having evidently been dug out in building a logging road.

Run south 8 N 8° 45' var. at 1308.25 feet set hub. at 1350 cross road south 5° W. at 1599 ft. set hub. at 1848 ft. set hub. at 2640 set temp. 1/4 cor. bet. secs. 19 and 24, where govt notes call for a stake and the following bearing trees, White pine 30 S. 69° W. 10 lks. Birch 12, S. 55° E. 10 links. All appear to be gone and we continue transit line south. At 3100 cross road bears south 10° W.: at 3126 set hub.: at 3707.60 set hub. at 4200 set hub.: at 4432.30 ft. set hub. at 5003.30 set hub. at 5292.50 feet the true corner to secs. 24-25-19 and 30, sets west 33.70 ft. At this point govt notes call for a post and the following bearing trees, Cedar 16 N., 60° E. 10 lks. Cedar 6, N 50° W. 11 links. Cedar 4, S. 24° W. 15 links. Cedar 5 S. 55° E. 15 lks. We find all of the old bearing trees plainly marked from which we set a stake for the true cor. and mark up new bearings as follows. Balcon 9 S. 30° W. 44.90 feet. Cedar 9 S. 60° E. 34.80 ft.

Beginning at N.E. corner of sec. 25, Twp. 144, R. 26, we run south on 7° variation. At 575 cross road, bears E. & W. at 900 ft. set hub.: at 1389.50 set hub.: at 1835.30 set hub on a little raise of ground in swamp.: at 2640 the true 1/4 cor. bet. secs. 25 and 30 bears east 130.50 feet. At this point being the 1/4 corner on the west side of sec. 30 Twp. 144, R. 25, govt notes call for a post and the following bearing trees, Spruce 6, S. 59° E. 8 lks. Cedar 12 S., 68° W. 13 links: We find the S.W. bearing tree from which we set a stake for the true 1/4 corner, and mark up new bearing trees as follows. Cedar 12 N. 52° 30' E. 42.25 feet. Oak 12, S. 70° 26' E. 54.20 feet.

Beginning at 1/4 corner just set we run south on 8° 45' variation: at 410 ft. set hub.: at 900 set hub.: at 1590 cross road bears E. & W. at 1596.60 set hub.: at 2237. set hub. at 2635 an old stake bears west 43 feet, but as this may not be the true corner we continue our transit line south: at 3300 set hub. at 3897 set hub on small raise of ground in swamp. at 4273.90 set hub. at 4400 lv. swamp. at 4570.60 set hub. at 5271.60 the true 1/4 corner between secs. 31 and 36, bears west 72.30 ft. At this point govt notes call for a stake and the following bearing trees: White pine 8, N. 82° W. 19 links. White pine 16 S., 73° E. 17 links. We find both trees from which we set a stake for the true 1/4 corner by proportionate measurement.

Going back to the N.E. corner of sec. 36-T. 144 N., R. 26 W., we set a stake for the true corner to secs. 30-31-25 and 36, and mark up new bearings as follows. Cedar 12 N. 60° W, 15.65 feet. Cedar 8 N. 85° E. 22.50 feet.

Beginning at the 1/4 corner between secs. 31 and 36 we run south on 8° var. at 931.20 ft. set hub.: at 1636.50 ft. set hub.: at 2201 set hub.: at 2640 set hub for temp. township corner, to Twp. 143 and 144 N., R. 25 and 26 west, where govt notes call for a

stake and the following bearing trees: white pine 8, $N 33^{\circ} 30' E$, 12 links.

White pine 10 S, $48^{\circ} E$, 20 links. White pine 10 N, $57^{\circ} W$, 21 links. White pine 8 S, $71^{\circ} W$, 23 links.

All appear to be gone. Beginning at the N.E. corner of sec. 24, T. 144, R. 26, we run north on $8^{\circ} 30'$ variation: at 859.60 set hub. at 870 cross road bears $N 50^{\circ} W$: at 1564 set hub: at 2117 set hub: at 2689.50 the true $\frac{1}{4}$ corner on the west side of sec. 18 - T. 144 - R. 26, sets East 85.85 feet. At this point gov't notes call for a stake and the following bearing trees: Cedar 8 N $85^{\circ} W$, 6 links distant: Cedar 5, East, 7 links distant.

We find the East bearing tree standing, plainly marked from which we drive a stake for the true $\frac{1}{4}$ corner and mark up new bearings as follows: Cedar 8 N $75^{\circ} E$, 19.80 feet. Cedar 12, S $70^{\circ} E$, 35.10 ft. The old N.W. B.T. is gone.

Beginning at a point in our transit line 85.85 feet west of the $\frac{1}{4}$ corner between secs. 13 and 18, we run north on $8^{\circ} 30'$ variation East: at 698.25 set hub: at 1455 set hub: at 2254 set hub: at 2640 set hub for temporary corner to sec. 12-13-7-18

We find some old bearing trees but as they are not the trees called for in the notes, we continue our transit line north: at 3057 set hub: at 3300 enter low river swamp: at 3850 lb. same: at 3966 set hub: at 4290 enter river bottom: at 4682 south side of Mississippi River which runs $N 75^{\circ} E$: at 4860 N bank of river which bears north $45^{\circ} E$: at 4892 hub in river bottom: at 5100 lb. river bottom, as both meander corners on the river are gone, we continue north and at 5340.50 the true $\frac{1}{4}$ corner between sec. 7 and 12 bears $E 148.50$ feet.

Correcting back we check the whole line to run straight from the $\frac{1}{4}$ set. 7 and 12, to the $\frac{1}{4}$ corner between 13 and 18.

The men who worked on this survey are as follows:

Harry S. Todd, transitman and chainman. Frank Payne, Mickle Sone Geo. Chandler, J. J. Tasher and Ed. Guthbrock as and chainmen.

Survey made Feb. 19th to Mar. 3rd, 1912.

Recorded December 28th, 1912.

John W. Cuss, C. Surveyor Cass Co. Minn

Field notes of the survey of a part of section 31, township 141 N., Range 27 W., and sec. 36, Twp. 141 N., Rge. 27 W., 5th principal meridian, as surveyed by A. W. Moulter, deputy Co. Surveyor of Cass Co. Minnesota, examined, approved and recorded by John W. Curo, Co. Surveyor of Cass Co. Minn.

Wednesday Sept. 28th 1910. A. W. Moulter, transitman and chainman. Jake Smith, Jim Ford and Geo. Ford as and chainmen. We use a Heller & Brightly transit and a 200 foot steel tape. Going to the S.W. cor. of sec. 31, T. 141, R. 27, we find a stake set by Ben Clark for the township cor. we walk a few hundred feet East to the N.W. cor. of sec. 6, T. 140, R. 27, where gov't notes call for a stake and the following bearing trees: White pine 14, S 30° E. 20 links (= 1320 feet). Spruce 4, S. 76° W. 14 links (= 92.40 ft.) The spruce bearing tree called for in the notes is gone, but we find an old stake, also the old white bearing tree which is down but plainly marked, and from this we set a new stake for the true N.W. cor. sec. 6, T. 140, R. 27. From which we run west on 8° variation. at 376.20 set hub, near S.E. cor. of sec. 36. We find a large rotten poplar stump and a rotten Maple stump which I believe was the old bearing trees and from which I set an iron marking pin by measurement from the two stumps for the temp. twp. corner. Over this pin I set the transit and find that the stumps check out within 2° for course: at this point gov't notes call for a post and the following bearing trees: Aspen 14, N. 10° W. 14 links (= 9.24 ft.) Maple 7, N 40° E. 26 links (= 17.16 ft.) As the Maple and Aspen (poplar) stumps just mentioned are the only stumps near and as they check out for course and distance with the field notes I call them the old bearing trees, and set a wood stake for the true S.W. cor. sec. 31, T. 141, R. 27, being the S.E. cor. of sec. 36, T. 141, R. 28, and mark new bearings as follows. White pine stump 18.3-52° 24' W. 2.26 feet. From this twp. cor. I run N. bet. sec. 31 and 36, magnetic variation 8° 30' E. At 300 set pin: at 600 feet set hub: at 900 set pin: at 1200 set pin: at 1320 set hub and quit for the day. The instruments used in this survey is a new Heller and Brightly Engineers transit and a 300 foot Chicago steel tape and plumb-bob.

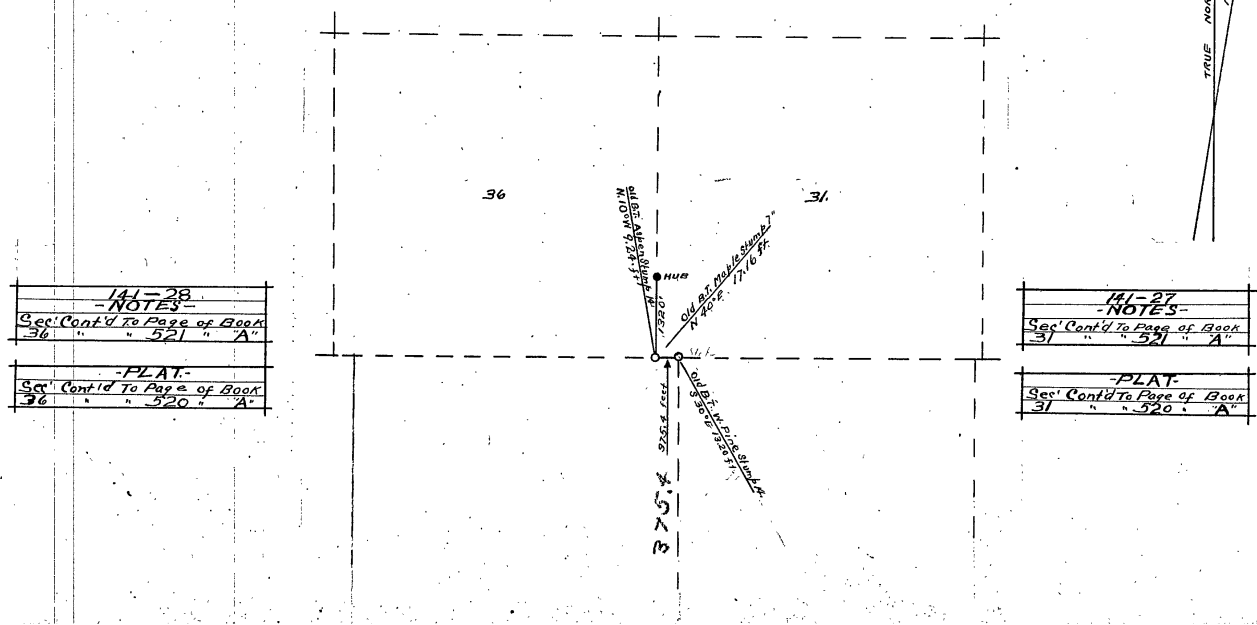
Survey made Sept. 28th 1910.

Recorded Dec. 28th 1912.

John W. Curo, County Surveyor Cass Co. Minn.

PLAT.

SCALE 3" = 1 MILE



141-28
 -NOTES-
 Sec. Cont'd To Page of Book
 36 " " 521 " A"

-PLAT-
 Sec. Cont'd To Page of Book
 36 " " 520 " A"

141-27
 -NOTES-
 Sec. Cont'd To Page of Book
 31 " " 521 " A"

-PLAT-
 Sec. Cont'd To Page of Book
 31 " " 520 " A"

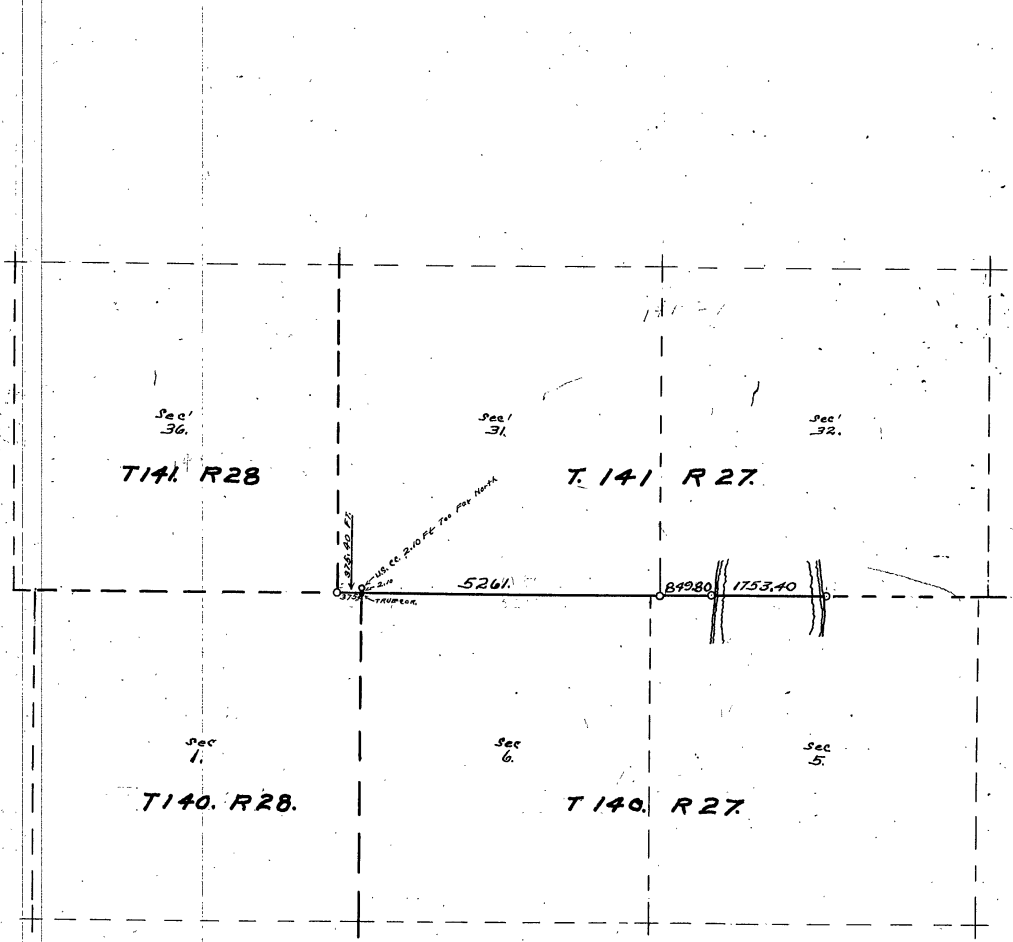
-141-27- PLAT-
Sec Cont'd From Page This Book
31 " " 579 "

-141-28 PLAT-
Sec Cont'd From Page This Book
36 " " 579 "

PLAT.
SECS. 5, 6, T. 140, R. 27 W. 5TH. P.M.
" 31, 32, " 141, R. 27 "
" 1, " 140, R. 28 "
" 36 " 141, R. 28 "

SCALE 3" = 1 MILE

SURVEY RECORD 213.



Surveyed May 11th 1912 to May 13th 1912
Revised December 30th 1912.
John W. Curro, Co. Surveyor, Cass Co. Minn.

-PLAT-			
Sec. Typ	Ref.	Cont'd To	Page of Book
5	140	27	567 A
6	"	"	568 A
31	141	"	564 A
32	"	"	564 A
1	140	28	"
36	141	"	564 A

-NOTES-				
Sec.	Twp.	Rge.	Cont'd. From Page	This Book
31	141	27	"	519
36	141	28	"	519

SURVEY RECORD No. 213
SECS. 5, 6, T. 140 N., R. 27 W., 5TH P.M.
 .. 31, 32. .. 141 .. 27 ..
 .. 1 .. 140 .. 28 ..
 .. 36 .. 141 .. 28 ..

5-6 140-27

Field notes of the survey of a part of sections 5 and 6 of Twp. 140 N. R. 27 W. and sections 31 and 32 of Twp. 141 N. R. 27 W. and sec. 1 of Twp. 140 N. Rge. 28 W. 5th principal meridian, as surveyed by Harry S. Todd, deputy Co. Surveyor of Cass Co. Minn., examined, approved and recorded by John W. Curs Co. Surveyor of Cass Co. Minn.

March 11th 1912. Beginning at the standard corner to Twp. 141 N. R. 27 + 28 N. on the 10th standard parallel, being the S.W. corner of sec. 31 T. 141 N. R. 27 W. we find a stake previously established by A. W. Moulster for the true Twp. cor. from which the stumps of the old bearing trees check out correct for course and distance, and we also find a new bearing made by Moulster being a white pine stump, 18 inches in diameter which bears south 52° 24' W. 2.26 feet distant. Run east on 8° 10' variation; at 12 feet cross road which bears N. 30° W. at 375.40 feet a stake set by A. W. Moulster from old gov't bearing trees for the true northeast cor. of section 1, Twp. 140 N. R. 28 W. bears N. 3.60 ft. at this point notes call for a stake and the following bearing trees.

White pine 14 S. 30° E. 20 links (= 13.20 ft.) Spruce 4, S 76° W, 140 (= 92.40 ft.) We find the old white pine bearing tree which checks out correct for course and distance, with new stake set at the true N.E. cor. of sec. 1, Twp. 140 N. R. 28. We continue our transit line east. At 1253.50 ft. tack in log. at 2496.70 tack in log. at 3536.20 set hub: at 5115.0 stake set by Ben Clarke, bears north 20 feet: at 5203.70 set hub: at 5259.50 another stake set by Ben Clarke bears north 21 feet. Harry S. Todd transitman and chainman

Geo. Swell chainman, John Glasgow, James Ford and J. B. Hicks apmcs. We use a Keuffel & Esser Engineer's transit and a 300 foot Chicago steel tape. Double center tacked hubs, and plump-bob, used in chaining.

March 13th 1912. Continue our transit line East. at 5400 enter swamp, bears N. 48. at 6000 feet set hub: at 6036 enter west bank of Inguadoma Lake which bears N. 45° E: at 6110.80 feet, meander corner ns. 26; on the west side of the lake bears N. 26.45 ft.: at this point gov't notes call for a stake and the following bearing trees: Elm 7, N 70° W. 32 lks. Elm 10 N. 36° E. 43 lks. We find both old trees from which we set a stake for the true meander corner, on the west side of Inguadoma Lake, between sections 5 and 32, with new bearing trees as follows: Ash 7, N 45° 33' W. 14.30 ft. Oak 10 N 8° 8' E. 20.90 feet.

Continue our transit line East on the ice, from a point 26.45 ft. S. of M.C. No. 26: at 7864.20 ft. east, the true meander corner, on the east side Inguadoma lake between sections 5 and 32, bears north 58.00 feet: At this point being M.C. No. 27. for Twp. 141-27 and 10.21 for T. 140-27. Gov't notes call for a stake and the following bearing trees. Cedar 10, N 15° E. 7 links. Cedar 14, S. 25° E. 12 links.

We find both bearing trees plainly marked, but the distance between them is 3.25 foot to long, and by proportionate measurement, we set the true meander corner, where we drive an iron 1 inch thick by one foot long for the true cor.

We go west to the S.E. cor. of sec. 31, being the S.W. cor. of sec. 32, T. 141, R. 27, where gov't notes call for a post and the following bearing trees. White pine 10 N 10° W. 96 lks. (= 63.36 feet) Fir 6 N. 26° E. 104 links (= 68.64 feet) We believe the old bearing trees to be gone, and correct our line and put in our corner from our base line but in chopping into a big white stump, we find it to be the old N.W. bearing tree and from this we establish the point for the true corner to sec. 31 and 32, and mark up new bearings as follows: Poplar 14 N 32° 33' E. 112.30 feet.

SURVEY RECORD NO. 213.

A stake set by Clark bears $S 20^{\circ} 15' W$. 935 feet. The stump of the old N.W. bearing tree, which is now 20 inches in diameter, bears $N 10^{\circ} W$, 63.36 feet distant, chained to face of "B.T." marks: from a point on our transit line, 52.61 ft. east of the S.W. cor. of sec. 31, the corner to sections 31 and 32 just set, bears north, 21.00 feet; from the true corner just set, we chain east 145.50 feet and drive a 40 dw't. spike in the ground for the N.E. corner of sec. 6, and the N.W. cor. of sec. 5, T. 140-R. 27. This survey shows, that if we run a straight line from the southwest corner of sec. 31, east to meander corner 10.27 on the south side of section 32, and on the east side of Inguadonna lake, meander corner 10.26, would set 3.07 feet south, out of line, and the corners of sec. 31 and 32 would set 4.42 feet south out of line, and north corners of sec. 1, and 6, would set 1.79 feet north out of line.

As the 10th standard parallel line must run through all of the corners established in the field by the U.S. surveyors at the time that line was surveyed, we find that to run a straight line from the southwest corner of section 31, to the southeast corner of the section, the closing corner established at the northeast corner of sec. 1, being the northwest corner of section 6, sets 2.10 feet too far north out of line and as this closing corner cannot be permitted to cause a crook in the 10th parallel line, the length of the west boundary of section 6, and the east boundary of section 1, only extends north to an actual intersection with the 10th standard parallel line, at which point we place a stake for the true corner to sections 1 and 6.

We will preserve the original closing corner as evidence of the position of the north and south line between sec. 1 and 6, but its erroneous position in being too far north, cannot be allowed to cause a crook between the mile corners on the 10th standard parallel line across the south boundary of sec. 31, T. 141-R. 27. And further reasons why the south boundary of sec. 31 must be straight from cor. to cor. is because the 10th standard parallel line was run before the closing corner was set for the north corner of sections 1 and 6, and the older and first survey made, held over the second survey, even tho both surveys were made by a United States Deputy Surveyor. Harry S. Todd transitman & chairman;

Mark Snell and Geo. Snell chainmen. John Glasgow and James Ford, assistants.
We use a K. & E. transit and 300 foot steel tape: double center hubs and plumb bob chain.

Survey made March 11th and 13th 1912.

Recorded December 30th 1912.

John W. Curo, Co. Surveyor Cass Co. Minn.

-NOTES-				
Sec	Twp	Rcp	Cont'd To Page of Book	
5	140	27	" "	569 " A"
6	"	"	" "	569 " A"
31	141	"	" "	565 " A"
32	"	"	" "	565 " A"
1	140	28	" "	" " " "
36	141	"	" "	565 " A"

Field notes of the survey of a part of sections 16-17-18-19-20-21-28-29-30. in Twp. N. 38 N., R. 29 W. 5th principal meridian, as surveyed by A. W. Moulster, Deputy County Surveyor of Cass Co. Minn. examined, approved and recorded by John W. Curs, Co. Surveyor of Cass Co. Minn.

The instrument used in making this survey is a new Heller & Brightly Engineers' transit in perfect adjustment and a 200 foot Chicago steel tape: plumb-bob used in taking measurements over uneven ground. Wednesday June 14th 1911: A. W. Moulster, transitman and Chairman: Ed. Bowman, ap and chairman: we go to the corner of sections 19-20-29-30, T. 138-R. 29, where gov't notes call for a stake and the following bearing trees: Tamarac 10 N. 24° E. 20 links; Tamarac 12 N. 26° W. 12 links; Tamarac 6 S. 63° W. — links; Tamarac 6 S. 15° E. 15 links. I find the N. E. and N. W. bearing trees plainly marked, also a corner which was previously set by County Surveyor Curs, who marked up a new bearing as follows: Tamarac stump S. 67° 30' W. 8.50 feet. I set a hub for the true corner from the old N. W. & the new S. W. bearing trees and stump, then walk a mile east to the corner of sections 20-21-28 and 29, where we set a stake for the corner at a point previously established by Co. Surveyor Curs, from all of the U. S. bearing trees, and we find the new bearings marked up by Curs, whose notes call for, Norway pine stump N. 23° W. 40.10 feet to tack in stump; Norway pine stump S. 51° 44' E. 28.70 feet to tack in stump.

Thursday June 15, 1911. A. W. Moulster transitman & chairman. Clyde Hall Chairman, A. Rounds and Ed. Bowman apmen.

Beginning at the corner to sections 19-20-29+30, in tan. swamp run east. Magnetic variation N. 8° 30' E.; at 925 feet lv. swamp; at 1054 set hub on knoll; at 1160 enter dry swamp; at 1502. lv. same; at 1500 ft. set hub; at 2422.70 set hub; at 2560 enter dry swamp; at 2640 set for temp. 1/4 corner; at 3375 lv. dry swamp and enter green tamarac swamp; at 4375 lv. tam. swp.

Friday June 16th 1911. Continue transit line east. at 4453.60 set hub; at 4550 enter swamp N. & S.; at 4906 lv. swamp which bears N. W. & S. Variation changes to 8° 20'; at 5293.10, the corner to sections 20-21-28 and 29, bears north, 40.90 feet; at 5293.20 set hub, 1 foot east of the east wheel track, of the N. & S. main wagon road. At a point 2609.30 feet east of the corner to sections 19-20-29+30, the true 1/4 corner between sections 20 and 29, bears south 32.30 feet at 8° 30' var.; at this point the U. S. field notes call for a stake and the following bearing trees: Black pine 7, N. 70° W, 178 links; Black pine 9, S. 89° W, 168 links. We find this corner, which has been previously established from old U. S. bearing trees, by Co. Surveyor Curs.

Beginning at the corner to sections 20-21-28 and 29-T. 138-R. 29, we run north, magnetic variation N. 8° 15' E.; at 960.30 set hub; at 1839.55 set hub in road; at 2640 set hub for temp. 1/4 corner between secs. 20 and 21, where U. S. notes call for, N. Pine 15 N. 45° E. 15 links; N. Pine 12 N. 3° W. 76 links; we find no trace of the 1/4 cor. and continue our transit line north; at 2800 set hub; at 4129.60 set hub on hill; at 5200 set pin; at 5277.40 set hub; at 5289.40 the corner to sections

SURVEY RECORD NO. 214

16-17-20 and 21 bears east 9.38 feet: At this point the notes of the U.S. survey call for: Norway pine 9, N 83° E, 47 links (= 31.02 feet.) N. pine 10, N 65° W, 91 links (= 60.06 ft.) N. pine 8, S $13^{\circ} 30'$ W, 127 links (= 83.82 feet.) N. pine 9, S 64° E, 51 links (= 33.66 feet.)

We find the N.E. stump with part of the "B.T." showing, and the S.W. stump with "B.T." plain, and the S.E. and N.W. stumps were badly burned: We set a stake for the true corner to sections 16-17-20 and 21 from the old N.E. and S.W. bearing trees.

Saturday June 17th 1911. Same crew.

Beginning at the corner to secs. 19-20-29 and 30, T. 138-R. 29, run north in swamp, at $8^{\circ} 5'$ var: at 682.45 set hub: at 1406.60 set hub: at 2024.40 set hub: at 2661.60 set hub: at 2654 the $\frac{1}{4}$ corner between sections 19 and 20 bears west 10.35 feet: At this point the U.S. notes call for:

Tamarac 7, S 70° W, 6 links (= 3.96 feet.) Sam. 6 N 72° E, 4 links (= 2.66 feet.)

We find both bearing trees dead and broken off about 5 feet high, but plainly marked, from which we set the $\frac{1}{4}$ corner and drive a 3 foot 3×3 post with tack in top for true $\frac{1}{4}$ corner, after which the old bearing trees stand correct for course but the distance between them was 4 feet over length, and this 4 feet over length I have proportionated.

Monday June 19th 1911. Moulter, Bowman and Hall:

Beginning at the $\frac{1}{4}$ corner between secs. 19 and 20 run north: at 646.90 set hub: at 7320 set hub, for temporary $\frac{1}{4}$ corner: at 2000 set hub:

at 2500 lv. same: at 2640 set hub: at 2662 the corner to secs. 17-18-19-20 bears west 3.40 feet: At this point the notes of the U.S. survey call for:

N. pine 20 N 55° E, 117 links (= 77.22 ft.) N. pine 16, N 49° W, 67 links (= 44.22 ft.)

N. pine 12 S 78° W, 75 links (= 49.50 ft.) Black pine 12 S 47° E, 154 links (= 101.64 ft.)

We find the N.E. stump: the old blaze plain, but marks faint: only a mark showing as the stump is badly burned. At the N.W. and S.W. I find stump badly burned, but measurements checking out within half a foot, and courses checking within $1^{\circ} 5'$ and $3'$. At the S.E. I find an old Jack pine stump, and its position almost checking out for course and distance called for in the notes. As I find the above stumps on a narrow strip of land between the swamp and a small meadow: the corner could not be any other place near, and as the stumps check for size, kind, distance and course, I call it the correct corner. The N.E. bearing tree stump shows the old blaze very plain showing the a mark, but the "B.T." is not visible. I put in a stake and new bearing trees as follows. Jack pine 4, N $50^{\circ} 30'$ E, 9.12 feet. Jack pine stump, 6 N $85^{\circ} 45'$ W, 3.70 feet.

Tuesday June 20th 1911. Same crew. From the corner to sections 17-18-19 and 20, T. 138-R. 29, just set we run east on $8^{\circ} 30'$ variation at 68 enter small round meadow: at 255 lv. same: at 546.10 set hub: at 650 enter small round bog: at 700 lv. same: at 958.40 set hub: at 1320 set hub for temporary $\frac{1}{4}$ corner:

Wednesday June 21st 1911. Moulter, Hall, Bowman and John Crossman assisting; continue east: at 1802.40 set hub: at 2553.40 set hub.

At 2651.53 the $\frac{1}{4}$ cor. between secs. 17 and 20 sets south 3.70 feet. At this point the United States field notes call for: Black pine 86.50° E. 17 links (= 11.22 feet)
 Black pine $94^{\circ} 42'$ W. 30 links (= 19.80 feet) We find the S. E. bearing tree, standing plainly marked, from which we set a stake for the $\frac{1}{4}$ corner, between secs. 17 and 20 - T. 138-R. 29 at $8^{\circ} 30'$ variation: Then continue our transit line east: at 3025. set hub: at 3200 enter dead tamarac swamp N. + S. 3650 lv. swamp: at 3729. set hub: at 4217.20 set hub.

Thursday June 22nd 1911. Same crew, continue east: at 4695.25 set hub: at 5302.90 the corner to sections 16-17-20 and 21 bears south 22.22 ft.

To put in the $\frac{1}{4}$ corner between sections 20 and 21 from hub 2640 N. we chain north 4.70 ft. to 2644.70 N. then east 4.69 feet, where we drive a stake for the true $\frac{1}{4}$ corner from which we run west on $8^{\circ} 30'$ variation. At 223.50 set hub:

at 630.60 set hub: at 800 enter meadow and swamp N. W. + S. E. it extends 1000 ft. N. and 600 ft. south: at 1800 lv. swamp and meadow, which bears N. W. + S. at 1947.10 set hub:

Monday June 26th 1911. Moulster, Bowman, Hall and Crossman continue west. at 2369.60 set hub: at 2640 set hub for temporary center of sec. 20: at 2850 enter low land: at 3200 enter tamarac swamp: at 3800 set pin: at 3960 set hub, for temp. $\frac{1}{4}$ corner: at 4025. lv. swamp: bears N. E. + S. W. at 4095.60 set hub: at 4370.45 set hub: at 4500 enter swamp: N. + S. at 5200 set pin: at 5295.85 the $\frac{1}{4}$ corner between secs. 19 and 20, bears south 24.10 feet.

Tuesday June 27th 1911. Moulster, Bowman, Hall + Crossman working: Begining at the $\frac{1}{4}$ corner between secs. 17 and 20 run south on $8^{\circ} 10'$ var: at 150. enter meadow, E + W. at 1100 point of land extending from west: at 1320 set hub: for temp. $\frac{1}{4}$ corner: at 1450 lv. meadow: N. W. + S. E. at 1571.10 set hub: at 2150.70 set hub: at 2640 set hub: at 2648.90 intersect E + W. random line: at a point 2649.70 feet west: at 2775 enter round wet swamp: at 2890 lv. same: at 3100 enter small rush bottoms: 3200 lv. same: at 3350 meadow bears E + W: at 3800 lv. same: N. W. + S. E. at 4506 set hub: at 5000 set hub: at 5225 enter meadow, E. + W. at 5364.30 the $\frac{1}{4}$ cor. between secs. 20 and 29 bears west 35.45 feet.

Correcting the N. + S. cor. line of sec. 20: hub, 2648.90 S. goes west 17.53 feet: and correcting the E. + W. random line hub, 2649.70 plus 17.50 equals 2667.20 feet west, goes south 12.14 feet. Hub, 2648.90 S. goes west 17.53 feet, then south 12.14 feet, where we set a stake for the true center of sec. 20 as this is where the true N. + S. and E. + W. center lines cross.

To put in the $\frac{1}{6}$ corner in the center of the north half of sec. 20, we begin at hub. 1320 S. and chain south to 1330.52 then west 8.80 feet where we set a stake for the true $\frac{1}{6}$ corner. To put in the $\frac{1}{6}$ corner south of the corner to secs. 17-18-19 and 20, we begin at hub 1320 N. and chain north to 1331 N., then west 1.70 feet where we set a stake for the true $\frac{1}{6}$ corner.

Wednesday, June 28th 1911. Moulster, Hall, Bowman and Crossman worked: Begining at the $\frac{1}{6}$ corner in the center of the north half of sec. 20, we run west on $8^{\circ} 30'$ var: at 40. feet lv. meadow: at 521.50 hub on high hill: at 1320 set hub for temp. $\frac{1}{6}$ corner: at 1368.60 set hub: at 1908.10 set hub: at 2000 enter tamarac swamp N. + S.: at 2640.50 the $\frac{1}{6}$ corner south of the N. W. cor. of sec. 20 bears south 28 feet.

To put in the $\frac{1}{6}$ corner in the center of west half of sec. 20 we begin at 3960 ft. west and chain west to 3981.52 feet west, then south

SURVEY RECORD No. 214

18.12 feet, where we set a stake for the true $\frac{1}{16}$ corner:

To put in the $\frac{1}{16}$ corner east of the cor. to secs. 17-18-19 and 20, we begin at hub 1320 east and chain east to 1325.75 feet east, then south 1.85 ft. where we set a stake for the true $\frac{1}{16}$ corner.

Thursday June 29th 1911. Same crew: Beginning at the $\frac{1}{16}$ corner in the center of the west half of sec. 20, we run north on 5th east. At 100 ft. swamp: at 175.60 set hub: at 835.40 set hub in path which runs N.E. + S.W.: at 1000 enter small meadow: at 1175 lb. same: at 1340.85 ft. north intersect E. + W. center line at a point 1316.50 ft. west: at 1400 set pin.

Friday June 30th 1911. Same crew: Continue north: at 1417 ft. set hub: at 2663.20 set hub: at 2661.90 ft. with the $\frac{1}{16}$ corner, east of the N.W. ^{cor.} of sec. 20 sets west 7.80 ft.

To put in the $\frac{1}{16}$ corner in center of the N.W. quarter of sec. 20, we begin at the intersection of lines at 1316.50 west, and chain West 390 feet to 1320.40 west, then south 10. feet. where we set a stake for the true center of the north west quarter of sec. 20, Twp. 138-R.29

July 6th 1911. Geo. Moulster and W.A. Moulster, set the following iron corners in cement: at the corner to sections 17-18-19 and 20 and at the cor. to sections 19-20-29 and 30, and at the $\frac{1}{4}$ corner between sections 17 and 20, all in Twp. 138-R.29, we pull up the wood stakes and put in their place a 2x48 inch galvanized iron pipe, set in a bed of concrete for the true corner. And at the $\frac{1}{4}$ corner between sections 19 and 20 we pull up the wood stake and put in its place a 1 $\frac{1}{4}$ by 72 inch galvanized iron pipe set in a bed of concrete for the true $\frac{1}{4}$ corner, and at the $\frac{1}{4}$ corner between sections 20 and 29, we pull up the wood stake and put in its place a 1 $\frac{1}{4}$ by 96 inch galvanized iron pipe, set in a bed of concrete for the true $\frac{1}{4}$ corner.

July 7th 1911. Geo. Moulster and A.W. Moulster; pull up the wood stakes at the corner to sections 16-17-20 and 21 and at the $\frac{1}{4}$ corner between sections 20 and 21, and at the corner to sections 20-21-28 and 29 - Twp. 138-R.29. and put in each place a 2x48. inch galvanized iron pipe, set in a bed of concrete for the true section and quarter section corners.

July 8th 1911, Geo. Moulster and A.W. Moulster, pull up the wood hubs in the center of sec. 20, and put in its place a 2x48 inch iron pipe, set in a bed of cement for the true center of sec. 20. Going to the $\frac{1}{16}$ corner south of the corner to secs. 17-18-19 and 20, we pull up the wood stake and put in its place a 1 $\frac{1}{4}$ by 72 inch iron pipe, set in a bed of concrete for the true $\frac{1}{16}$ corner. Then going to the $\frac{1}{16}$ corner east of the cor. to secs. 17-18-19 and 20, we pull up the wood stake and put in its place a 1 $\frac{1}{4}$ by 48 inch iron pipe set in a bed of concrete for the true $\frac{1}{16}$ corner.

At the $\frac{1}{16}$ corner in the center of the north half and at the $\frac{1}{16}$ corner in the center of the west half, and at the $\frac{1}{16}$ corner in the center north west quarter of sec. 20, all in Twp. 138-R.29, we pull up the wood stakes previously set by me for the true $\frac{1}{16}$ corners and put in each place a 1 $\frac{1}{4}$ x 48 inch galvanized iron pipe, set in a bed of concrete for the true $\frac{1}{16}$ corners.

Wednesday, Aug. 2nd 1911. A.W. Moulster, W^m Wagner and John Kline sub-divide the N.E. $\frac{1}{4}$ of the N.W. $\frac{1}{4}$ of section 20, Twp. 138-R.29.

This survey begun June 14th 1911, finished Aug 2nd 1911.

Recorded Dec. 30th 1912.

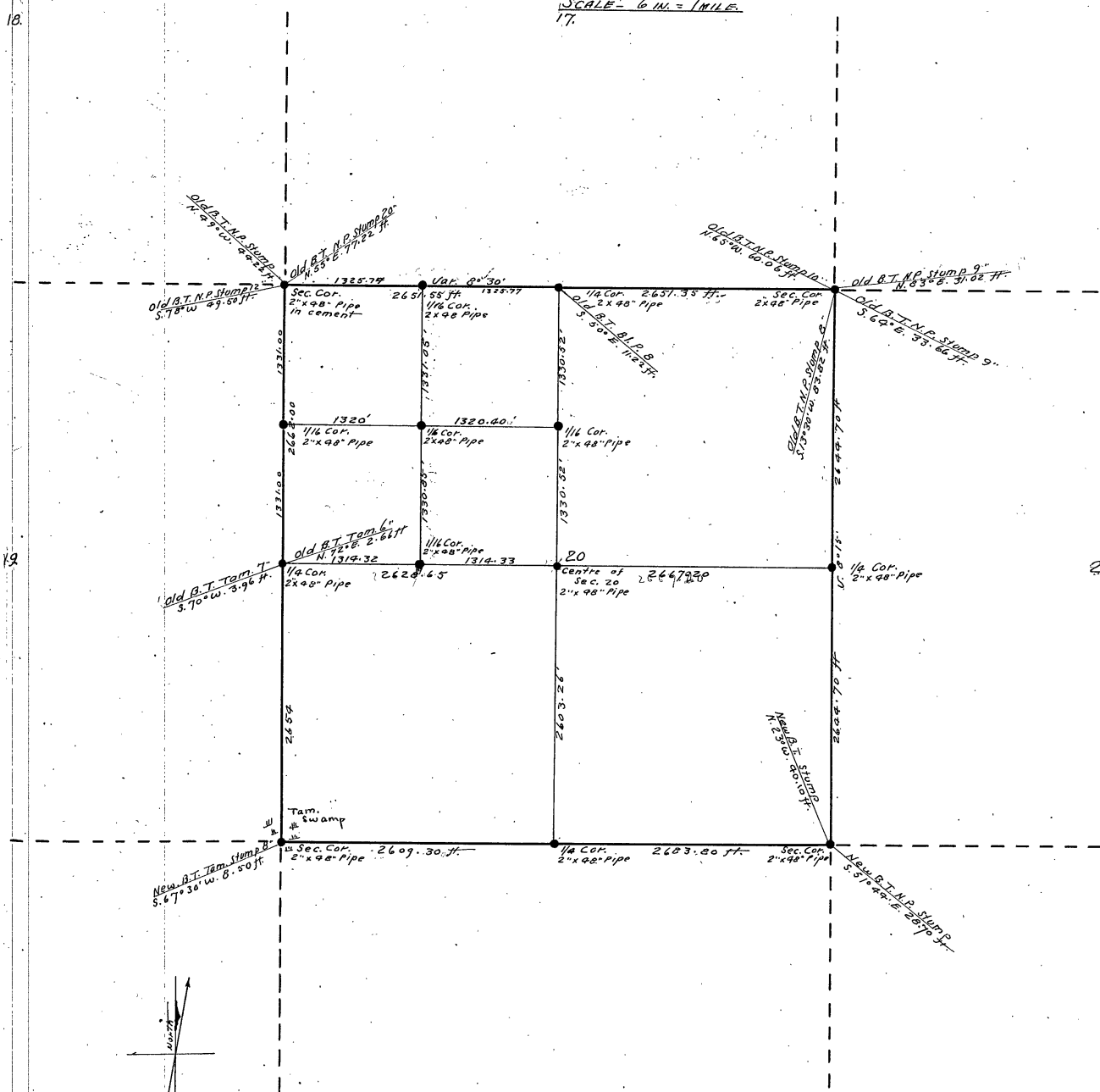
PLAT
T. 138 N. R. 29 W. 5TH P. M.
SEC. 16, 17, 18, 19, 20, 21, 28, 29, 30.

SURVEY RECORD NO. 219.

SCALE = 6 IN. = 1 MILE.
17.

18.

16.

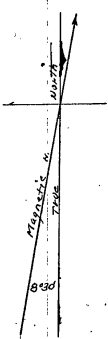


19.

211

30

28



SURVEYED JUN 14 1912 A.M. 2nd 1911
Recorded December 30th 1912
John W. Cuss, Co. Surveyor Cass Co. Minn.

-PLAT-	
Sec Cont'd From Page of This Book	473
33	
-NOTES-	
33	478

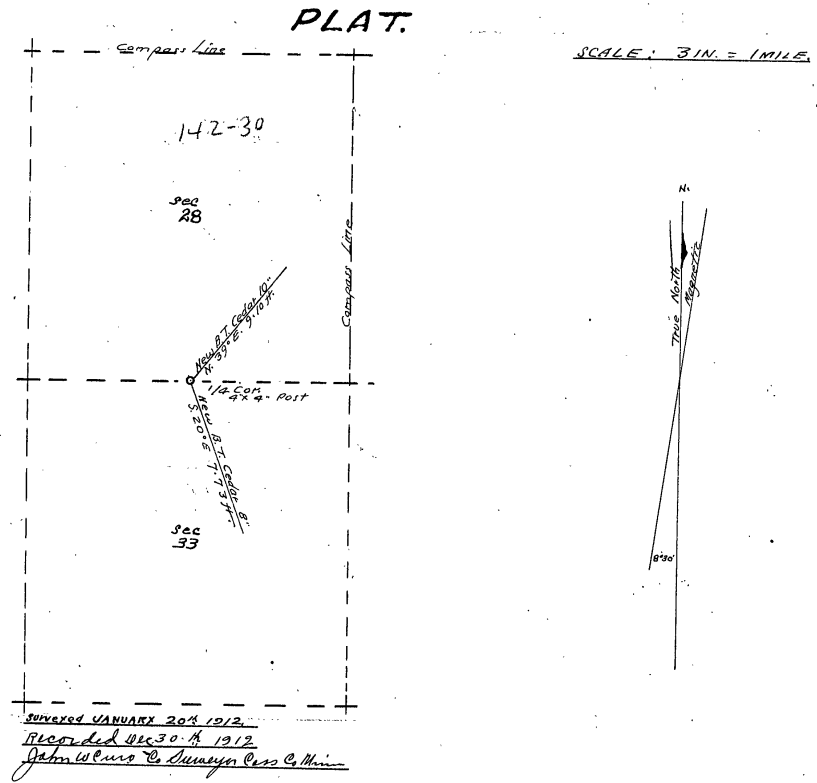
SURVEY RECORD NO. 215
T. 142 N. R. 30 W. 5th P. M.
SECS. 28 AND 33

Field notes of the survey and establishment of a new 1/4 corner to sections 28 and 33 Twp. 142 N. Range 30 W, 5th principal meridian, as established and surveyed by John W. Curs, County Surveyor of Cass County Minnesota.

Jan. 20th 1912; Curs compassman and chainman; Willie Noble at and chainman, Herman Hamonstrom apman; Old man Noble assisting. We go to the 1/4 corner between sections 28 and 33, T. 142 R. 30, where gov't notes call for a stake and the following bearing trees: Tamarac 10 S. 8° E. 9 lks (55.94 ft). Cedar 8 N 26° W, 32 links (= 21.12 feet) We find both trees quite rotten but plainly marked from which we set a 4x4x60 inch post, well into the swamp for the true 1/4 corner and mark up new bearings as follows:

Cedar 10 N 39° E. 9.10 feet. Cedar 8 S 20° E. 7.75 feet. at 8°30' variation East. We run a compass line half a mile east, a mile north and almost a mile west, but found no trace of any corners or old U.S. bearing trees, but we found lots of newly marked stakes and bearing trees which I believe are wrong.

Surveyed Jan. 20th 1912
 Recorded Dec. 30th 1912.



Field notes of the survey and establishment of iron and wood section and quarter section corners and new bearing trees in a part of sections 15-16-20-21-22-27-28-29-33 and 34, in township 145-N, range 31 W, 5th principal meridian as surveyed and established by John W. Curo, County Surveyor of Cass County, Minnesota, assisted by A. W. Moulster, Assistant State Engineer, Chas Tompson assisted as ap and chairman.

Oct. 5th 1912: At the corner to sections 15-16-21 and 22 twp. 145; R. 31, gov't notes call for: N. pine 16, N. 55° 30' W. 120 links. N. pine N. 33° E. 98 links: N. pine 22, S. 59° E. 212 links: N. pine 20 S, 63° W. 85 links: We find the stump of the old N.W. tree plainly marked, and the old N.E. tree standing green plainly marked and the stump of the old S.E. tree plainly marked, from which we fix the point for the corner by flat measurement, from face of figures, and find that the chainage checks out perfect with the notes: We drive a 1 inch iron rod 5-foot long, its full length into the ground for the true corner after which the old trees stand as follows: Old N. pine stump, 16 bears N 57° 40' W, 120 links: Old tree 20, bears N. 33° E. 98 links: Old stump 22, bears S 61° E. 212 links: The old S.W. bearing tree is gone, and we mark up a new bearing as follows:

Oak tree 2 S. 52° W, 71.93 feet; all at 8° variation:
 We go to the 4th corner between sections 21 and 22, T. 145- R. 31, where gov't notes call for: Jack pine 10 N. 64° W. 29 links: Jack pine 6 N. 61° E. 30 links. We find the old N.E. tree standing and the stump of the N.W. tree, both plainly marked, from which we set a 3x3x3⁶ old marked stake for the true corner by flat measurement from face of figures, after which the old trees stand as follows:

Old stump 10, N. 57° 30' W. 29 links: Old N.E. tree 6, stands N. 57° 30' E. 30 links: We mark new bearings as follows: Birch 6 S. 83° W. 57.90 feet: Jack pine 12, S 44° E. 57.50 feet. at 8° variation east. We go to the corner of sections 27-28-33-34-T. 145-R. 31, where gov't notes call for: Jack pine 4, S 70° W. 68 links: Jack pine 10 S. 29° E. 99 links: Jack pine 10 N. 88° E. 57 links: Jack pine 5, N. 80° W. 103 links: We find all of the trees standing green plainly marked, we find the distance between the N.E. & S.W. trees to be 5⁷/₁₀ of a foot short, and the distance from the S.E. to the N.W. trees to be 5⁸/₁₀ of a foot short: We set a 4x4x20 inch pine stake for the true corner by proportionate measurement from the face of the figures on the old bearing trees to a tack in the top of the stake, after which the old trees stand as follows: S. 69° W. S. 33° E. N. 68° E. and N. 82° 30' W. at 8° variation We mark new bearings as follows: Jack pine 6, S 88° 45' E. 41.44 feet. Jack pine 6, N. 12° W. 18.69 feet: Jack pine 5 S. 60° W. 18.7 feet. Jack pine 6 N. 63° E. 15.94 ft. to iron mark.

December 27th 1912: we go to the corner of secs. 20-21-28-29-145-R. 31, where gov't notes call for: Jack pine 6, S 54° W. 10 links: Jack pine 6, S 58° E. 21 links: Jack pine 5, N. 24° E. 18 links: Jack pine 4, N. 32° W. 20 links: We find a 4x4 jack pine stump, squared up and well marked with 10 dwt. nail in top for true corner, having been established from old gov't bearing trees, which have been dug out in the clearing of a new N. & S. County road, and from this corner we find new bearing trees as follows: Jack pine 10, S 50° 40' W. 56.38 ft. Jack pine 10, N. 50° W. 79.25 feet. Jack pine 10, N. 30° 45' E. 58.80 feet.

Taken with Gurlay Compass set at 8° variation; and a 100 foot steel tape. Curo at the compass, and Curo and Moulster chaining without

SURVEY RECORD No. 216.

a plumb-bob, to side of blazes on the trees. The blazes appear to be about two years old, and at the base of each tree is driven a R. R. spike, its full length into the tree, and each tree is marked with a timber scribe as follows: "R.S. 217784.60". We blaze and pencil a new bearing tree which is a jack pine 9, and bears south $53^{\circ}30'E$. 43.00 feet distant to face of blaze, at 8° variation.

Survey made Oct 5th 1912 and

December 27th 1912.

Recorded December 30th 1912.

John W. Cuss, Co. Surveyor
Cass Co. Minnesota

-NOTES-

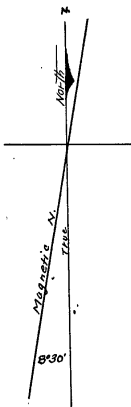
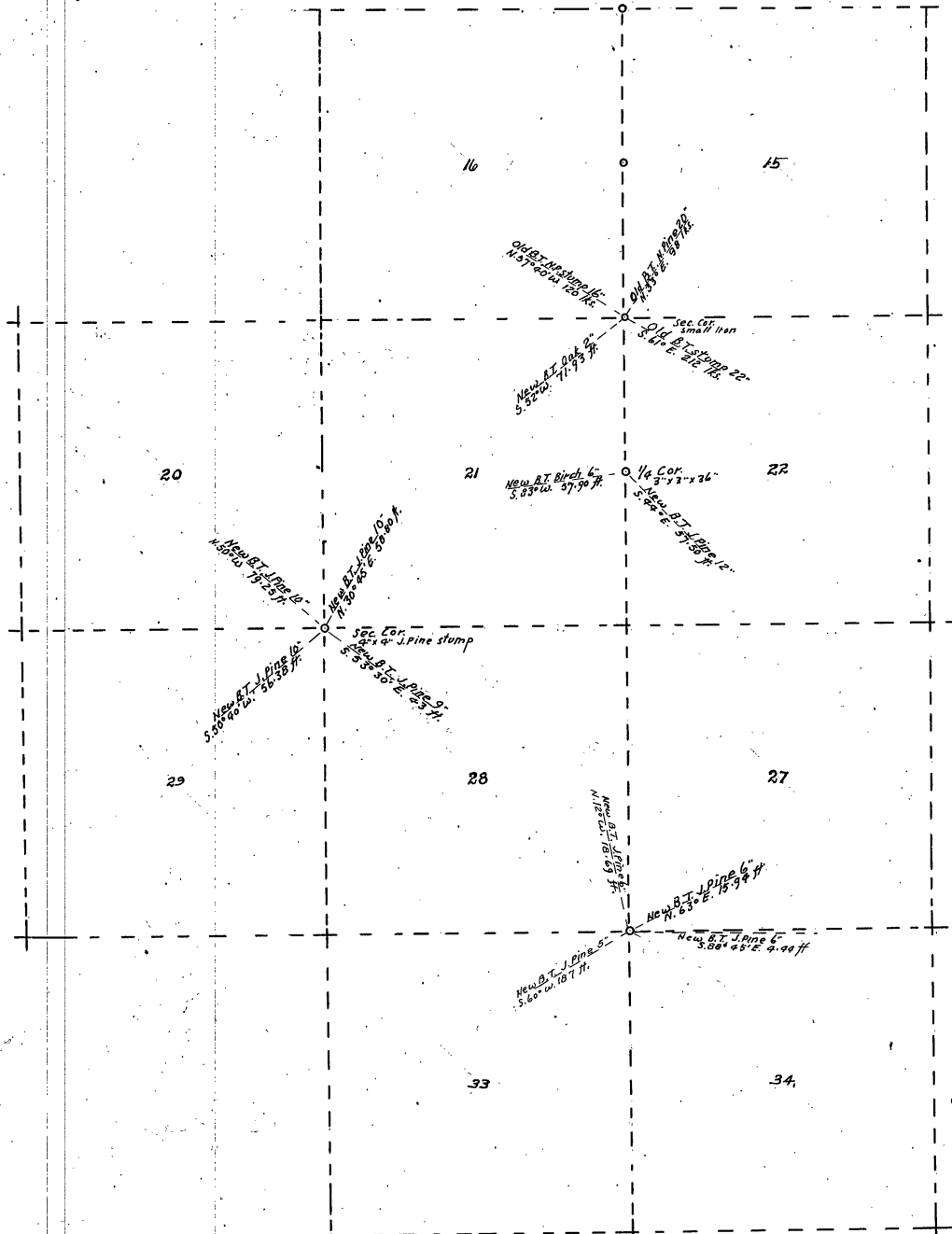
Sec.	Carried to	Face of This Book
22	"	605 " " "
27	"	605 " " "
28	"	605 " " "
33	"	605 " " "
34	"	605 " " "

- PLAT -		
Sec Cont'd From Page of This Book		
15	"	288
16	"	280

PLAT.
T. 14 S., R. 31 W., 5th P.M.
SECS. 15, 16, 20, 21, 22, 27, 28, 29, 33, 34.

SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 216



Recorded Dec. 30th 1912
 John W. Carr, C. Sun Cass Co. Minn

SURVEYED OCTOBER 5th 1912
 AND OCTOBER 27th 1912

- PLAT -		
See Carried To Page of This Book		
21	"	411
22	"	411
27	"	411
28	"	411
33	"	411
34	"	411

SURVEY RECORD No. 217
SECS. 2, 3, 11, T. 143, R. 28, 5th P.M.
 " 34, 35 " 144, " 28 "

Field notes of the survey and establishment of permanent corner sections and quarter section corners in a part of sections 2-3-11, Twp. 143 N., range 28 W., and sections 34 and 35, township 144 N., range 28 W., 5th principal meridian, as surveyed and established by Harry S. Todd, Deputy County Surveyor of Cass Co., Minnesota, examined and recorded by John W. Curs, Co. Surveyor of Cass Co., Minn.

Jan. 17th 1912 Harry S. Todd, transit and chainman; W.S. Martin, chainman; J. L. Constock, J. A. Wesberg, and J. M. Grover, apment. We go to the 1/4 corner on north side of section 3, T. 143 N., being the 1/4 corner on the south side of section 34, T. 144 N., R. 28 W. where govt notes call for a stake and the following bearing trees: Poplar 10 S. 20° E. 20 links. Poplar 6, N. 10° E. 10 links. We find the S.E. tree plainly marked, and the rotted stump of the N.E. tree, from which we set a stake for the true 1/4 corner and established a new bearing tree as follows: Birch 43 N. 48° 15' E. 11.30 feet.

From the 1/4 just set between sects. 3 and 34, we run a transit line east on 7° 30' variation: at 261 drive tack in log; at 865 cross old wagon road which bears N. 45° E. and S. W. at 965.30 set hub; at 1320 feet set temporary 1/6 stake, from which an old stake previously set by some one, probably J. M. Canfield, bears south 25 ft. at 1500, west of bank of R.R. yards (S. 00. R.R.) bears south 45° E. at 1600.40 set hub on east bank of R.R. yards, bears S. 45° E.; at 2139.40 set hub; at 2649.00 the corner to sections 2-3-34 and 35, bears south 57.00 feet. At this point govt notes call for a stake and the following bearing trees: Tamarac 6, S. 30° W. 3 links; Tamarac 6, N. 75° W. 5 links; Tamarac 10, N. 40° E. 8 links. We find the N.E. & N.W. trees standing plainly marked from which we set a stake for the true corner.

Jan. 18th 1912 Same crew working: Beginning at the corner to sections 2-3-34-35 first set, we run a transit line east on 7° 30' variation, (magnetic meridian bears N. 7° 30' E.) at 226 cross logging road bears N. 45° E.; at 266 cross same road, bears south 45° E.

Jan. 19th 1912: Same crew continue east: at 1112 feet set hub. At this point we find three old trees which appear to have the same iron marks as was used by the United States Government in its survey of public lands; but as the trees do not stand in a position check out with the field notes for corners along this line, we consider they were marked up by some private surveyor. Ignoring these trees we continue our transit line straight east: at 1334.40 set hub near another old stake. At 1392 R.R. ditch about 5 feet wide, bears N. & S.; at 1950 set hub in old road which bears N. & S.; at 2669 the true 1/4 corner between sections 2 and 35 bears south 9.50 feet.

At this point, being the $\frac{1}{4}$ corner, between secs. 2 and 35, Twp. 143 and 144 N. range 28 W. Gov't notes call for a stake and the following bearing trees: Tamarac 3, $N 61^\circ W$, 5 links; Tamarac 12, East 15 links: We find both bearing trees from which we set a stake for the true $\frac{1}{4}$ corner.

Jan. 20th 1912. Same crew worked: we go to the $\frac{1}{4}$ corner between sections 3 and 34, where we pull up the wood stake set by us, and put in its place a $2\frac{1}{2}$ by 48 inch, galvanized iron pipe, having a cap on top, and drove well into the ground for the true $\frac{1}{4}$ corner, then go east a mile to the $\frac{1}{4}$ corner between sections 2 and 35, where we pull up the wood stake set by us and put in its place a $2\frac{1}{2}$ by 48 inch galvanized iron pipe, having a 3 inch cap on top, and set well into the ground for the true $\frac{1}{4}$ corner: We do not mark up new bearing trees, as the old trees are still in good condition, and the iron posts just set, we have driven through the frozen ground, as we cannot get cement to set them in just at this time.

We go to the $\frac{1}{4}$ corner between sections 2 and 3, Twp. 143 R. 28 where Gov't notes call for a stake and the following bearing trees: Birch 8, $N 25^\circ W$, 8 links; Spruce 5, $S 62^\circ E$, 10 links: We find the stub of the birch and the stump of the spruce, both plainly marked from which we set a stake, for the true $\frac{1}{4}$ corner, which checks out for course and distance at 5° variation: Run north on $25^\circ 30'$ variation being $N 20^\circ W$, at 586 feet cross R.R. ditch which bears $N 60^\circ E$: at 687, cross logging road which bears $E 4^\circ W$, at 1369.50 set hub:

Jan. 22nd 1912. Todd, J. A. Westberg, and J. M. Grover worked. Continue transit line north between secs. 2 and 3, T. 143 range 28: at 1384 cross log road: at 2573.50 the true N.E. cor. sec. 3 and N.W. cor. sec. 2, bears west 204.50 feet: We correct this line back, then go to a point on our corrected township line, where the same intersects the boundary of the right-of-way of the 300 R.R. and run, thence $N. 30^\circ 25' W$, 696.50 feet, to a point opposite single track between tracks: thence $72^\circ 22' W$, 350 feet to a 25-foot alley in townsite of Federal Dam.

Jan. 23rd 1912: Todd and Westberg work: Going to the $\frac{1}{4}$ corner between secs. 2 and 3, we pull up the wood stake and put in its place $2\frac{1}{2}$ by 48 inch, galvanized iron pipe, having a 3 inch galvanized iron cap on the top, and set well into the ground for the true $\frac{1}{4}$ corner, between sections 2 and 3, township 143, range 28. Then going to the corner to secs. 2-3-34-35 between town 143 and 144, range 28, we pull up the wood stake set by us and put in its place a $2\frac{1}{2}$ by 48 inch galvanized iron monument, having a 3 inch iron cap on the top and set well into the ground for the true section corner. We drove both irons through the frozen ground as it is too hard to dig, we did not set them in concrete, as we cannot get cement just at this time. We do not mark new bearing trees as the old ones are there. West Berg and Todd run a compass line from the $\frac{1}{4}$ on north side of section 2, East along the township line but cannot find any marks of the meanders or twp. corner.

May 2nd 1912: Harry S. Todd transit man and chainman, J. E. Constock, Fred Brodeur and Frank Broken ap and chainmen:

Beginning at the iron $\frac{1}{4}$ corner between secs. 2 and 35, we run south through center of sec. 2, T. 143, R. 28: on 15° variation: setting hubs every 300 feet.

SURVEY RECORD No. 217

At 300, 600, 900, 1200, set hubs: at 1398 cross logging road, $N. 80^{\circ} W.$: at 1500, 1800, 2100, 2400, set hubs so as to be able to properly correct the true line back, as the line runs through a heavy tamarac and cedar swamp, and the timber is valuable.

May 3rd 1912: Same crew: Continue transit line south. at 2700, 3000, 3300, 3600, 3900, 4200, 4500, 4800 and 5100 feet set hubs: at 5106.85 the true $\frac{1}{4}$ corner between sections 2 and 11, bears east, 90 feet.

May 6th 1912: Same crew: at the $\frac{1}{4}$ corner between sections 2 and 11 Twp. 143, Rge. 28, got it notes & call for a stake and the following bearing trees: S spruce 10, $N. 53^{\circ} E.$ 18 links: Aspen 10, $S. 29^{\circ} E.$ 24 links: We find both bearing trees plainly marked from which we establish the true $\frac{1}{4}$ corner, where we set a $2\frac{1}{2} \times 48$ inch iron post, with 3 inch cap on the top, and set well into the ground for the true $\frac{1}{4}$ corner between secs. 2, and 11. We do not mark any new bearing trees, and as the ground is too hard to dig and we have no cement, we drive the iron $\frac{1}{4}$ corner through the frost into the ground. Correcting north through sec. 2, hub 4800, goes east 84.60 ft. hub 4500 goes east, 79.3 ft. hub 4200 east 74. hub 3900, east 68.75 ft. 3600 goes east 63.44 feet. 3300 east 58.15: 3000 east 52.87 feet: 2700 goes E. 47.58 ft. 2400 east 42.30 ft. 2100 east 37.10 ft. 1800 east 31.72 ft. 1500 east 26.43 ft. 1200 east 21.14. 900 goes east 15.85: 600 east, 10.56: 300 goes east 5.28 ft. to the true $N. + S.$ center line of section 2, T. 143-R. 28.

We use a K. & E. transit, a 300 foot Chicago Steel tape and plumb-bob.

Survey begun Jan. 17th 1912
 And finished May 6th 1912.
 Recorded December 30th 1912.

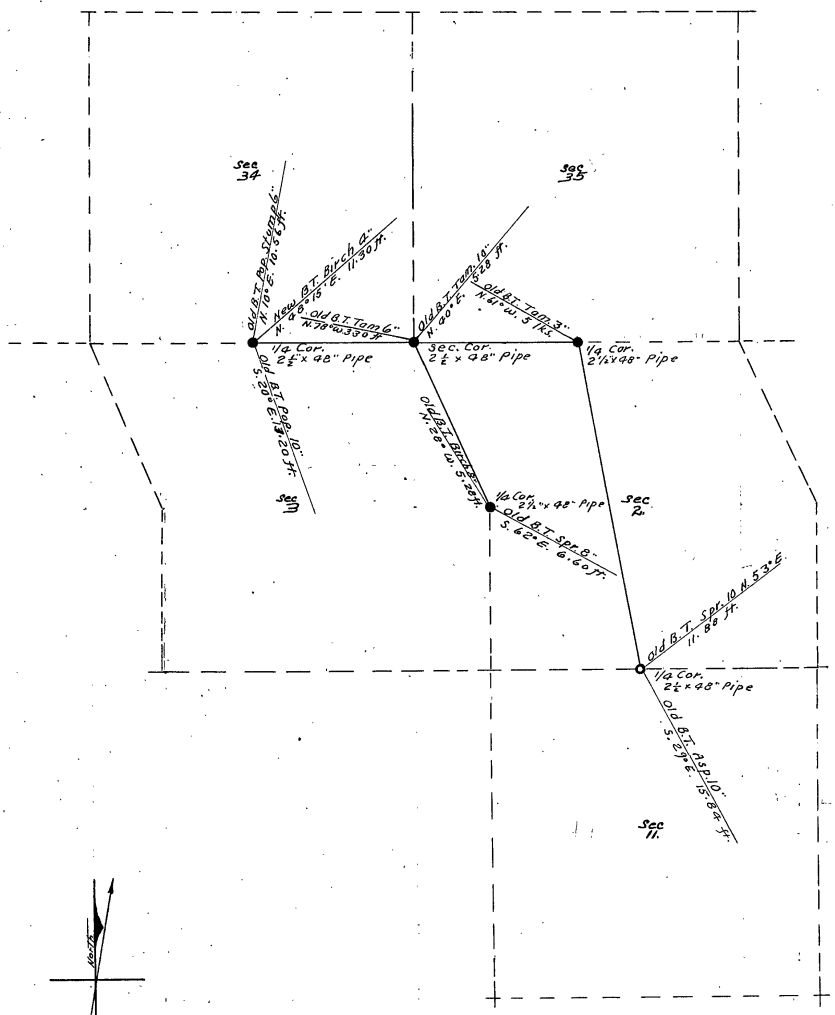
144-28	
NOTES-	
Sec'	Cont'd to Page of Book
37	" " " 561 " A "
38	" " " 561 " A "

143-28	
NOTES-	
Sec'	Cont'd to Page of Book
2	" " " 561 " A "
3	" " " 551 " A "
11	" " " " " " " "

PLAT.
SECS. 2, 3, 11, T. 147 N. R. 28 W. 5TH PM.
" 34, 35, " 144 " 28 "

SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 217.



Recorded Apr 30th 1912
 John W. Cress, Co. Minn. Cress Co. Minn.

SURVEY BEGUN JANUARY 17 1912
 FINISHED MAY 4 1912

PLAT- 144-28			PLAT 143-28		
Sec	Cont'd To	Page of Book	Sec	Cont'd To	Page of Book
34	"	"	2	"	559 " A
35	"	559 " A	3	"	551 " A
			11		

A

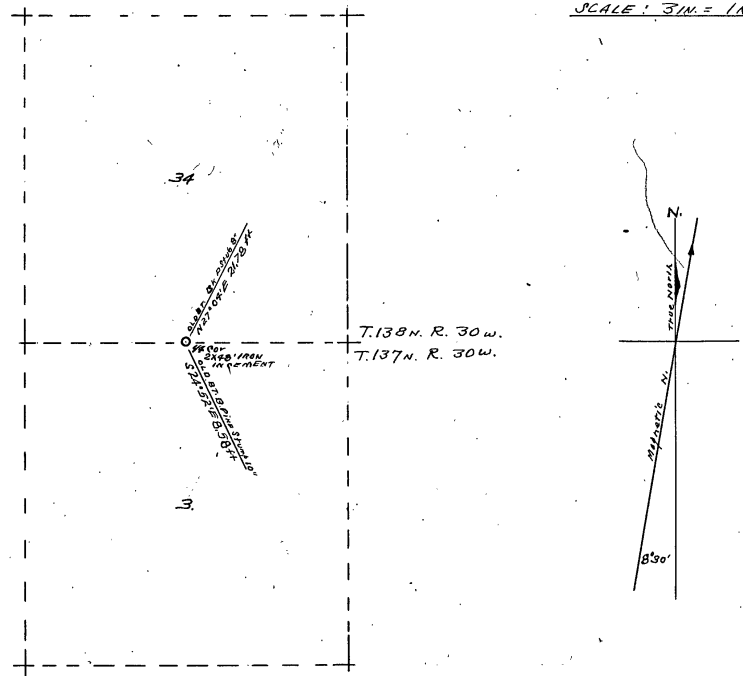
- PLAT -	
Sec. Cont'd From Page of this Book	935
34	
- NOTES -	
34	138

SURVEY RECORD No. 218
SEC. 3, T.137N. R.30W. 6TH P.M.
 " 34 " 138 " 30 " "

Field notes of the survey and establishment of an iron 1/4 corner between sections 3, Twp. 137 N., Rge. 30 W., and sec. 34, Twp. 138 N., Rge. 30 W., as surveyed and established by A. W. Moulter, deputy Co. Surveyor of Cass Co. Minn., examined, approved and recorded by John Curo, Co. Surveyor of Cass Co. Minn. Thursday, August 3rd 1911. A. W. Moulter transit man and chainman; E. L. Forkes assisting; Isaac Norman, at and chainman. At the 1/4 corner on the north side of section 3, T. 137, R. 30, being the 1/4 corner on the south side of section 34, Twp. 138, Rge. 30, got 1/4 notes call for a stake and the following bearing trees: Black pine 10, S. 19° 30' E. 13 links (= 8.58 feet. Black pine 8, N. 19° 30' E. 33 links (= 21.78 feet.) We find both bearing trees plainly marked, having been cut off just above the upper blaze. Set corner by measurements, courses throw measurements way off. Old bearing trees then stand as follows: Black pine stub, 6 feet high, N. 27° 4' E. 21.78 feet. Black pine stub, 6 feet high S 24° 52' E. 8.58 feet. We set a 2 x 4 1/2 inch galvanized iron monument, in a bed of concrete for the true 1/4 corner.

PLAT.

SCALE: 3 IN. = 1 MILE



Recorded December 30th 1912
 John W. Curo, Co. Surveyor Cass Co. Minn.

SURVEYED August 3rd 1911

-NOTES-	
Sec Cont'd From Page of This Book	
35	483

Field notes of the survey and establishments of a new corner and new bearing trees in a part of sections 25-26-35 and 36, of Twp. 141 N., R. 29 W., 5th principal meridian as made by John W. Curo, County Surveyor of Cass Co. Minn.

Dec. 23rd 1912. Curo, compass and chainman; Geo. Williams ap and chainman; Gurley compass, 100 foot Standard steel tape. Go to the corner of sec. 25-26-35 and 36, T. 141-R. 29, where govt notes call for:

N. Pine 20, N 50° E. 8 links; N. Pine 15, S 10° E. 10 links; W. Pine 12, N 30° W, 33 links.

We find the stumps of the S. E. and N. E. trees plainly marked from which we set the point for the true cor. by flat chain, and drive a pitch pine stake, 2 x 4 x 16 inches in size with tack in top for true corner, and mark new bearings as follows: Scrub Oak 3, N 1° E 38.20 feet. Jack pine 3, N 2° E. 114.80 feet. Tall white pine stump 30, N 48° E. 32.90 feet. N. Pine 5, S 63° 45' W, 203.75 feet.

Pine stump 24, N 84° 30' W, 65.66 feet. It is 35 feet S. E. to marsh which bears N. E. + S. W. at 8° 30' variation.

Recorded Dec 31st 1912
John W Curo Co. Surveyor Cass Co Minn

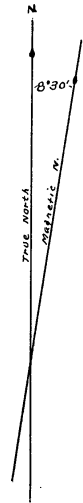
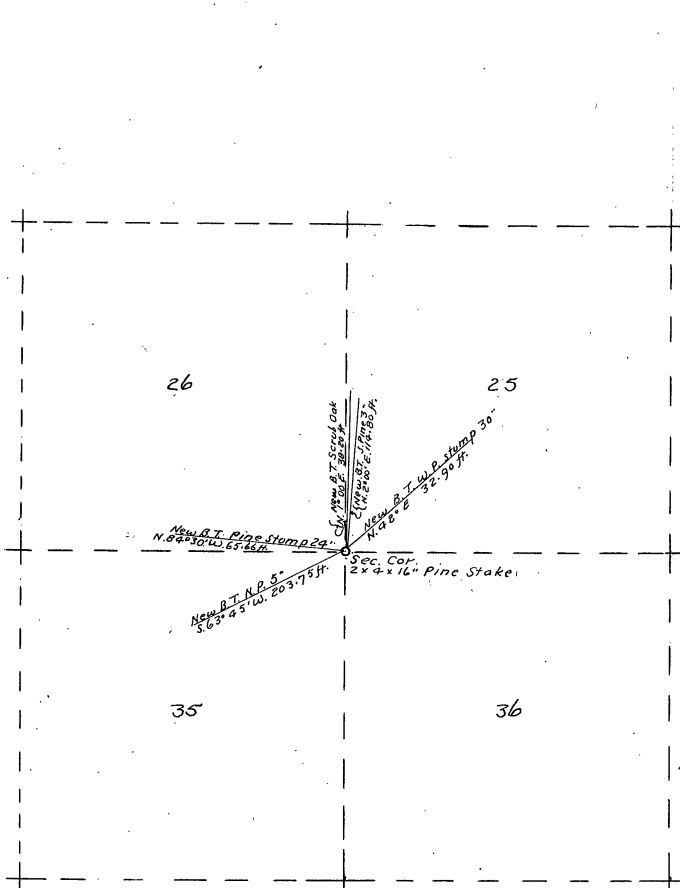
-NOTES-	
Sec' Cont'd To Page of Book	
25	537 A
26	
35	
36	537 A

-PLAT-
Sec Cont'd From Page of this Book
35 " " 483 " " "

PLAT.
T. 141 N. R. 29 W., 5TH P. M.
SECS. 25, 26, 35, 36

SCALE: 3 IN. = 1 MILE

SURVEY RECORD NO. 219.



Recorded December 31st 1912
John W. Currier & Co. Surveyors, Cass Co. Minn.

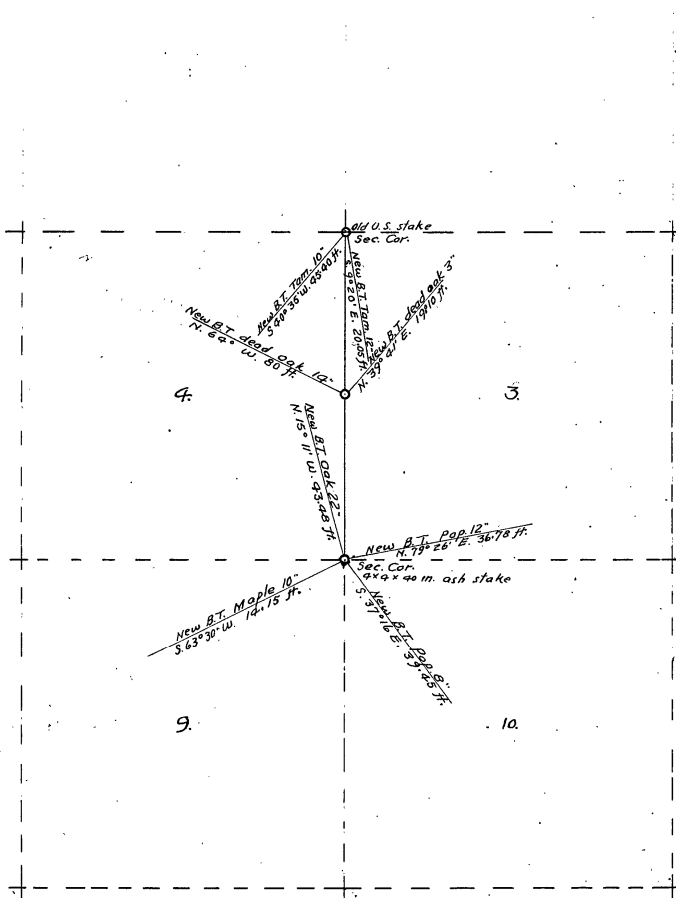
SURVEYED DEC' 23 1912

- PLAT -			
Sec. Cont'd To Page of Book			
25	"	550	A
26	"	"	"
35	"	"	"
36	"	550	A

PLAT.
T.144 N. R.31 W. 5TH P.M.
SECS. 3, 4, 9 AND 10.

SCALE: 3 IN. = 1 MILE.

SURVEY RECORD No. 220.



Recorded December 31st 1912
John W. C. Co. Surveyors & Co. Minn.

SURVEYED NOV. 12th 1912

-PLAT-

3	611	A
4	611	A
9	611	A
10	611	A

Field notes of the survey and the establishment on new section corners and new bearing trees in a part of sections 3-4-9 and 10, Twp. 144 N. range 31 W, 5th principal meridian as surveyed and established by Harry S. Todd, deputy County Surveyor of Cass County, Minnesota, examined, approved and recorded by John W. Curs, Co. Surveyor of Cass Co. Minn.

Nov. 12th 1912. Harry S. Todd Transitman and chairman; John Klabundy, and Ben Klabundy, at and chairmen, Ft & B. transit, 300 foot steel tape.

We go to the 4 corner between sections 3 and 4, Twp. 144, R. 31, where gov't notes call for a stake and the following bearing trees:

White pine 30, N. 17° W. 98 links: White Pine 16 S 52° E. 66 links: We find the stump of both trees, the S.E. one being plainly marked and from both stumps we set a stake for the true 4 corner by flat chain from face of figures, and mark up new bearing trees as follows: Dead oak 14, in sec. 4, bears N. 64° W. 50 ft.

Dead oak 3, in sec. 3 bears N. 39° 41' E, 19.10 feet.

Nov. 13th 1912. Same crew: Some Surveyor has set a post for the center of sec. 3 and has run a compass line from his stake half a mile west, to the 4 on west side, and as Mr. Klabundy wishes to find out if the compass line is straight, I begin at the 4 corner on the west side of sec. 3, and run a transit line half a mile east to the stake, and find that the compass line is very crooked and I am sure the stake above mentioned is not in the true center of sec. 3.

Nov. 14th 1912. We go to the corner of sections 3-4-9 and 10, T. 144-R. 31, where gov't notes call for: Ash 6, S 30° E. 29 links.

Ash 8, S. 55° W. 6 links: Maple 4, N 12° E. 8 links: Maple 6, N. 28° W, 2.7 links. We find the stumps of all four trees from which we establish the true corner, and drive in a 4x4x4 1/2 inch ash stake, and mark new bearings as follows: Maple 10, in sec. 9, bears S. 63° 30' W, 14.15 feet.

Oak 22, in sec. 4, bears N. 15° 11' W, 43.48 feet distant: Poplar 12, in sec. 3, bears N. 79° 26' E. 36.78 feet. Poplar 8, in sec. 10, bears S. 37° 16' E. 39.45 feet.

Nov. 15th 1912. We go to the N.W. cor. of sec. 3, being the N.E. cor. of sec. 4, T. 144-R. 31, where gov't notes call for a stake and the following bearing trees: Spruce 6, S 22° E. 2.7 links: Spruce 6, S 48° W. 6 links: I find the S.E. tree, standing plainly marked, and the roots of the S.W. tree, from which I set the corner by flat chain from center of the trees. I find old U.S. survey stake about a foot down in the moss and I put in new bearing trees as follows. 8° 30' variation. Tamarac 12, in sec. 3 bears S 9° 20' E. 20.05 feet distant. Tamarac 10, in sec. 4 bears S 40° 35' W, 45.40 feet distant.

Survey made Nov. 12th to 15th 1912.
 Recorded December 31st 1912.
 John W. Curs. Co. Surveyor Cass Co. Minn

-NOTES-

Secs	Carried To	Page of Book
3	"	405 " A"
4	"	406 " A"
9	"	405 " A"
10	"	405 " A"

SURVEY RECORD No. 221.
T. 143 N. R. 27 W. 5TH P. M.
SEC. 28, 29, 32, 33.

Field notes of the survey and establishment of new corners and new bearing trees in a part of sections 28-29-32 and 33, Twp. 143 N., R. 27 W. 5th principal meridian, as made by Harry S. Todd, deputy County Surveyor of Cass Co. Minnesota, approved, examined and recorded by John W. Curo, Co. Surveyor Cass Co. Minn.

Nov 8th 1912. Harry S. Todd, transitman and chairman. Andrew Stone ap and chairman. Beginning at the corner to sec. 28-29-32 and 33, T. 143, R. 27, where gov't notes call for a stake and the following bearing trees:

Spruce 8, S. 54° E. 11 links. Willow 7, N. 45° W. 16 links. Spruce 10, S. 71° W. 18 links. Spruce 10, N. 47° E. 17 links. We find a 4x4x48 inch stake previously set by Curo and I find all four old gov't bearing trees, and as the old bearing trees have been cut in order to make a Co. road, I establish and mark up new bearing trees as follows: Cedar 4 in sec. 33 bears S 43° 52' E. 28.70 feet. Cedar 6, in sec. 32, bears S 44° 8' W. 23.61 feet. Tamarac 10, in sec. 29, bears N 39° 16' W, 58.12 feet. Tamarac stump 8, in sec. 28, bears N 61° 58' E. 34.97 feet, at 8° 30' variation.

Run east on 8° 30' var. A. + B. transit, 75-foot steel tape, chaining up cut out line, putting in stakes every 75 feet, through green Cedar and Tam. swamp: at 821 feet set hub:

Nov. 9th 1912. Continue east: at 1455.50 set hub. at 1933 set hub. at 2449.60 set hub. at 2661 the true 4 corner between sec. 28 and 33, bears south 86.30 feet, where gov't notes call for a stake and the following bearing trees.

Cedar 10 S. 11° W. 8 links. Cedar 15, N. 68° W. 10 links. We find both bearing trees down but plainly marked, from which we set a stake for the true 4 corner between sections 28 and 33, Twp. 143-R. 27, by flat measure from face of old figures, then mark new bearings as follows: Tamarac stub 10, bears N. 61° 45' W. 45.60 feet distant. Tam stub 10, bears N. 6° 26' W. 52.90 feet distant.

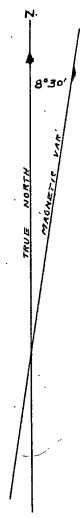
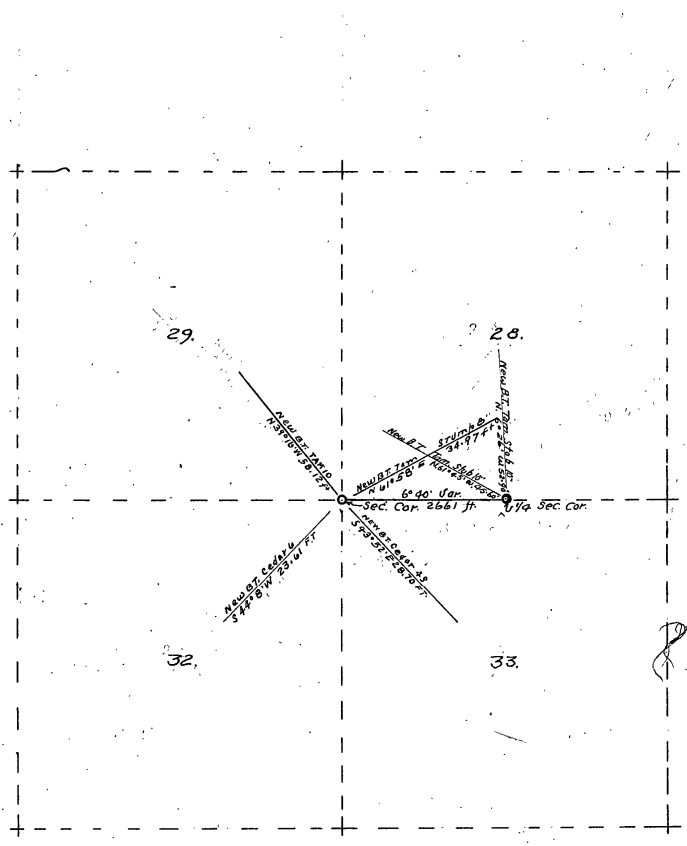
Correcting back hub 2449.60 goes south 79.38 feet. 1933. goes south 62.64 ft. 1455.50 goes south 47.17 ft. 1320 goes east 10.50, then south 43.15 feet to true 4 corner. 821 goes south 26.60 feet.

Surveyed Nov. 8th and 9th 1912.
Recorded December 31st 1912.
John W. Curo, Co. Surveyor Cass Co. Minn

PLAT
T. 143N. R. 27W. 6TH P.M.
SECS. 28, 29, 32, 33.

SCALE: 3 INCHES = 1 MILE

SURVEY RECORD No. 221



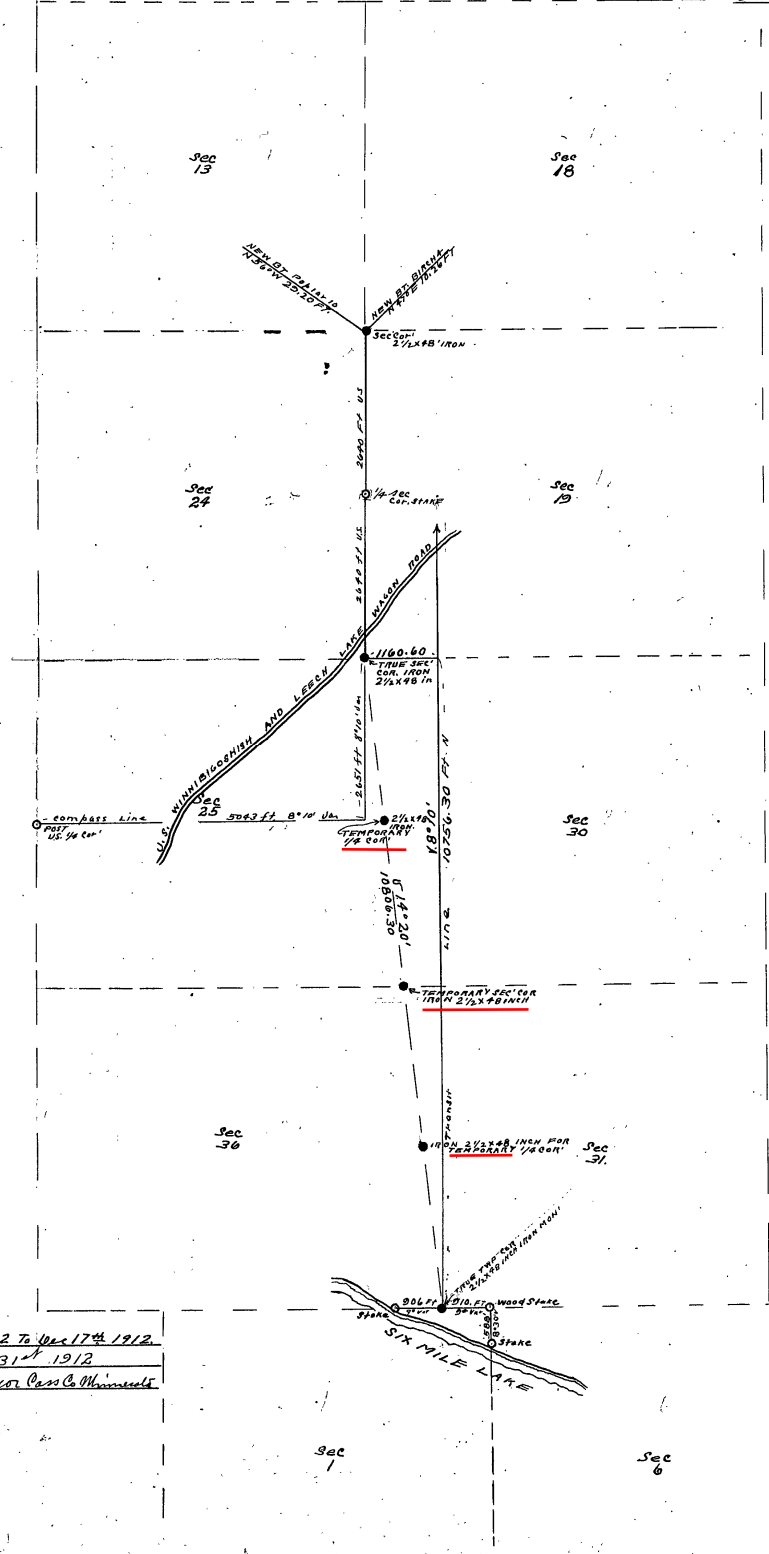
Recorded December 31st 1913
John W. Cress, Co. Surveyor, Cress & Mims

SURVEYED NOV. 8th AND 9th 1912

PLAT.
SEC. 1, T. 144 N. R. 28 W. 5 TH. P. M.
" 6, " 144 " 27 "
" 18, 19, 30, 31, 7, 145 " 27 "
" 13, 14, 25, 36 " 145 " 28 "

Scale 3/4 inches = 1 mile

SURVEY RECORD NO. 222



Surveyed Dec 11th 1912 To Dec 17th 1912
Recorded December 31st 1912
John W. Carr, C. Sawyer, Cass & Minnells

Sec 1

Sec 6

SURVEY RECORD No. 222

SEC. 1,	T. 144 N.	R. 28 W.	5th P. M.
" 6,	" 144	" 27	"
" 18, 19, 30, 31	" 145	" 27	"
" 13, 24, 25, 36	" 145	" 28	"

1944
1912
34

Field notes of the survey of a part of section 1, Twp. 144, R. 28, and sec. 6, Twp. 144, R. 27, and sections, 18-19-30 and 31, Twp. 145 N. range 27, W. and sections 13-24-25 and 36 Twp. 145 N. range, 28 W., and the establishment of permanent iron section corners, as established by and surveyed by John W. Curo, County Surveyor of Cass Co., Minnesota.

Dec. 11th 1912, Lew Wilcox and I go to the S.E. corner of sec. 36, T. 145, R. 28, being the S.W. corner of sec. 31, Twp. 145, R. 27, and the north boundary of sec. 1 Twp. 144, R. 28, where gov't notes call for a post and the following bearing trees: Yellow Pine 6, N. 20° E. 43 links; Yellow Pine 16, N. 35° W. 60 links. We find both trees standing green and plainly marked from which we establish the point for the true corner, on the 11 standard parallel line, by flat chain from face of the trees and set a birch hub for the true corner, from which we run east, along the north side of section 1, at 9° variation: At 300 cross wagon road bears N.W. & S.E.; at 410 feet find old stake set for the N.W. corner of section 6, Twp. 144, R. 27, where gov't notes call for a stake and the following bearing trees: Birch 5, S. 20° W. 60 links; Birch 6, S. 9° E. 74 links. We can find no marks of the old bearing trees, but an old 4 inch oak tree, standing S.E. evidently blazed and marked up by some cruiser, and we find a 10 inch oak marked and standing S.W. But as these are not called for in the U.S. notes we ignore them and run southe between sections 1 and 6, at 8° 30' var. At cross wagon road, E & W. at 588 feet intersect six mile lake where gov't notes call for a stake and the following bearing trees: Black Jack 3, N. 21° W. 9 links "no other tree". I set a stake for random line between sec. 1 and 6, then go back to the S.E. corner of sec. 36 and run west along the line between sec. 1 and 36, at 9° var.: At 906 intersect six mile lake, and look for meander corner where gov't notes call for a stake and the following trees: Birch 6, N. 34° E. 53 links; Birch 6, N. 13° E. 63 links. We find no stake or trees only an old rotted birch, which is down but on account of the frost and snow, I cannot make out any iron marks. I set a small stake to mark the point and quit for the day.

Dec. 12th 1912, Curo transitman and Chairman: Wm Joseph Hammer and Oscar Erickson, Ass't Chairman. Frank Timmigan apman Heller & Brightly transit in perfect adjustment, double center tacked hubs, 300 foot Chicago steel tape, plumb-bob chaining. At the S.E. corner of sec. 36, being the S.W. cor. sec. 31, Twp. 145 N. between ranges 27 and 28, and on the north boundary of sec. 1, T. 144-R. 28, we find the birch hub set yesterday by Wilcox and I for the true corner. We take up this hub, and set in its place a 2x2x14 inch cedar stake, tack in top for the true corner which we check for chain with the old bearing trees with a 100 foot

steel tape and find the distance correct, and after setting transit on true corner, the old trees stand $N. 22^{\circ} 55' E.$ and $N. 34^{\circ} 34' W.$ at $8^{\circ} 25'$ variation:

Run north on $8^{\circ} 20'$ var. at 237 feet cross main wagon road, "Six Mile Lake road" bears $N. W. + S. E.$ At every 300 feet we set and mark a cedar stake. At 560 intersect extreme S.E. end of Cochran's log rail road, which bears $N. W.$ At 1406 set cedar hub: at 2325 a road bears $E. + W.$: at 2452.45 set cedar hub, on $E. + W.$ ridge: at 2640 look for 4 corner bet. 31 and 36, where notes call for:

Jack pine 14, $N. 64^{\circ} W.$, 16 links: Jack pine 12, $S. 81^{\circ} E.$, 14 links: We do not find trees and continue north: at 2700 set cedar stake: at 3587.50 set hub: compass needle in transit changed to $8^{\circ} 15'$ var. but we continue our line straight: at 4075 enter open swamp, bears $N. W. + S. E.$ at about 45-14 spike in swamp: at 4935 lv. swamp: at 5051.60 set hub and quit for night. Dec. 13th 1912. Same crew, continue north, Erickson and Rivo chaining perfect: at 5595.35 set 20 dwt. spike in R.R. grade: at 5603.80 tack in tie: at 5608.70 center of G.M. R.R. bears $N. 85^{\circ} 15' W.$ Compass $8^{\circ} 10'$ var.: at 5825 enter open swamp: at 6300 tack on point of land coming from the east: at 8475 lv. swamp which bears west and south $20^{\circ} E.$ for 550 ft. thence $N. 20^{\circ} E.$ for 400 ft. at 8738 set cedar hub: at 8744.50 set 30 dwt. spike in frozen ground: at 8875 enter tam. swamp $E. + W.$: at 10100 lv. swamp, bears $W.$ and $N. E.$ at 10180.70 drive a 30 dwt. spike in frozen ground on ridge which bears $N. E. + S. W.$ at 10190.50 set cedar hub: at 10250. enter tam. and cedar swamp, $N. E. + S. W.$ at 10400 lv. same, $S. E. + N. W.$ at 10500 set stake in big pine timber, 50 feet east of $N. + S.$ tam. and cedar swamp. quit for night.

Dec. 14th 1912. Same crew, continue north. At 10756.30 set spike in frozen ground 1160.60 feet east of the true corner to sec. 19-30-24 and 25: at 10944.80 spike in ground: at 1100 enter green tam. swamp $N. E. + S. W.$ at 11300 lv. swamp, $S. E. + N. W.$ At 11446.30 set spike: at 11466 an old road bears $E. + W.$: at 12281 drive spike: 12446 center of old main U.S. Winnibigoshish & Seck Lake road bears $N. E. + S. W.$: also telephone line. at 12700 set stake and will probably quit this line, as the range line between twps. 145, ranges 27 and 28, appears to be nearly a quarter of a mile west, owing to some mistake of the original government surveyors.

At the corner to sec. 19-30-24 and 25 on the range line between twps. 145, ranges 27 and 28, govt. notes call for a stake and the following bearing trees. Tamarac 6, $N. 24^{\circ} E.$, 16 links. Tam. 6, $N. 52^{\circ} W.$, 10 links: Tam. 4, $S. 39^{\circ} E.$, 29 links. Tam. 6, $S. 60^{\circ} W.$, 12 links: We find the old stakes set well into the swamp for the true corner, and the stumps of all four bearing trees, which check out for course, but not quite correct for measurement, as they are about a foot to close together. But by proportionate measurement the stake stands correct, to a tack in top of stake so we leave the stake where it is and mark up new bearing trees as follows. Tam. 3, $S. 53^{\circ} 31' E.$, 12.54 feet. Tam. 3, $S. 61^{\circ} 35' W.$, 16.44 feet. Tam. 3, $N. 28^{\circ} 18' W.$, 9.56 feet. Tam. 4 $N. 32^{\circ} 55' E.$, 26.49 feet at $8^{\circ} 10'$ variation. The stump of the S.E. tree is 3 ft. tall, very old, plainly marked "B.T." the diameter of the circle of the "B" is $\frac{11}{16}$ of a foot showing that a large marking iron was used: we dig the body of the S.W. tree out of the moss and find it marked with the

SURVEY RECORD No. 222.

same sized marking iron as the S.E. stump, we also dig the body of the N.W. 6 inch Tamarac out of the green moss, and find it plainly marked, but with a smaller marking iron, as the rings and figures are only $\frac{3}{4}$ of a foot in diameter, show that there were two men both marking up bearings at the time of the survey or the Surveyors had a "two side" marking iron (one side small and one large).

I consider this information important as it may help me in deciding which is the real old gov't bearing trees and which trees have been marked up by some later survey. The S.W. + N.E. trees check out for course and the S.E. + N.W. swags correct proportionally for distance.

The S.E. stump is 17.48 feet distant. From this corner we run east on $8^{\circ}10'$ variation, to an intersection with my transit line, then work transit line south, along the transit line, until the angle reads 90° : then chain east, at 300, 600, 900, stake in swamp: at 1000 to swamp N.E. + S.W. at 1100.60 intersect spike on random line, at a point 10756.30 feet north of the S.E. cor. of Twp. 145, R. 28.

Sew Wilcox shows me the 4 corner on the west side of sec. 25, and I and Erickson chain up two transit lines, run by Jas. D. Middleton, to see about how this 4 corner stands as to position with the N.E. corner of the same section: Chaining east $8^{\circ}10'$ var. at 2054 main N.S. road (and telephone line:) bears N.E. + S.W. at 2525 about, squared up poplar stump bears north 53 feet. This stump is marked "C.W. of sec.": at 5043 old hub at intersection of a N. + S. transit line, from which a stake marked "4 sec." bears north 117. feet. From old stake we chain north along old transit line: at 1326.20 intersect stake marked " $\frac{3}{4}$ " continue N. on old transit line at $8^{\circ}10'$ var. and at 2657, intersect true N.E. cor. of sec. 25, chainage and courses taken with compass and 100 ft. chain.

Dec. 15th 1912. Sew Wilcox, Oscar Erickson and I take compass and 100 foot chain and go to corner of sections 18-19-13-24, on range line bet. 27 and 28 of T. 145-N, where gov't notes call for: Cedar 5, N. $42^{\circ}E$, 26 links: Balsam - N. $40^{\circ}W$, 11 links. Yellow Pine 18, S. $23^{\circ}W$, 60 links. Poplar 14, S. $28^{\circ}30'E$, 32 links.

We find the N.E. Cedar, down, out by the roots, but sound and plainly marked, also N.W. Balsam, broke off at stump a foot high, both stump and body of tree plainly marked, the Balsam is a foot in diameter. We find the S.W. Yellow Pine standing green and plainly marked, all of the trees are marked with a large marking iron, showing rings " $\frac{3}{4}$ " of a foot in diam. which corresponds with the marks found at the gov't corner a mile south.

We find the stump of the S.E. poplar, and all of the trees and stumps check out perfect for course and distance at $8^{\circ}10'$ var. chain from face of figures. We set a 2 1/2 by 4 8 inch galvanized iron post with 3 inch cap on the top and having a half inch 2 foot rod run through the bottom of the post to act as an anchor we set this iron post 30 inches into the ground and mark up new bearings as follows. Poplar 10 N. $56^{\circ}W$, 29.20 feet, marked "S. 13-145-28-BT." Old U.S. tree, Yellow Pine 18, bears S. $23^{\circ}W$, 39.60 feet.

SURVEY RECORD No. 222

We do not mark this. Norway Pine 24 bears S. 57° E. 36.93 feet which we mark "S. 19-145-27-B.T." A 4 inch birch bears N. 47° E. 10.26 feet which we mark "18-145-27-B.T." measurements carefully taken to face of "B.T." figures, with standard 100 foot steel tape and plumb bob. Courses taken with Gurley Compass with vernier set at 5° 20' Erickson and Curo chaining.

Beginning at the true iron corner first set from a careful compass line south at 5° 10' var. Sew Wilcox pacing distance: at 905 paces being about half a mile the 1/2 corner between 24 and 19 sets west 3 feet: the notes call for a stake and: T. am. 6 N. 83° W. 24 links: T. am. 6 N. 63° E. 22 links. we find the old tall original stake standing well preserved, in the green swamp, and both the bearing trees down, but plainly marked, showing the same old big ring marks measuring 180° of a foot: we also find two new green bearing trees, which seem to have been marked with a jack-knife, we do not take time to set this corner, but from the stake we run south still 5° 10' var. Wilcox pacing: at 905 paces, about half a mile, the true S. E. cor. of sec. 24 bears 10 feet south and 8 feet east.

At this point we pull up the old U.S. Corner, previously checked by me, and put in its place a 2 1/2 x 4 1/2 inch galvanized iron pipe having a 3 inch cap on the top and a 1/2 inch 2 foot iron rod run through the bottom, to act as an anchor, we dig a trench 3 feet deep in the swamp, into which we drive a 3 foot tamarac stake to act as a piling, and onto the sharpened top of this we drive the bottom end of the hollow 4 ft. iron corner, then wallop the whole works down until it drives so hard we can hardly make it go any further, then fill up the trench leaving the top of the iron sticking 18 inches above the level of the green tamarac swamp, for the true corner to sections 24-25-19 and 30, Twp. 145, on line between Ranges 27 and 28.

Erickson goes to dinner, while Wilcox and I walked 1160.66 feet east, then follow our new transit line a mile south of the G. N. R. R. reading the stakes to make sure we have not made a mistake in our careful chaining.

At stake 5400. N. of the S. E. cor. of T. 145, R. 28, we chain south 21.85 feet to 5378.15 north, then west at a 90° angle to our transit line and run west 580.30 feet, where we drive a spike in the frozen ground for the temporary corner to secs. 30, 31, 25 and 36, at which point we will establish the true corner unless we find the old U.S. Bearing trees.

Dec. 16th 1912, Curo, Erickson, Hamner, Trimmigan worked

At the $\frac{1}{4}$ corner on the east side of sec. 25, Gov't notes call for: N. Pine 14, N. 42° E. 26 links; N. Pine 18, S. 83° 38' W. 13 links. As we do not find the bearing trees, I set the transit on a hub we put in my transit line, at a point 8067.23 feet N. of the top corner, and run west on a 90° angle, 870.45 feet where we drive a 3x3x36 inch tan. stake for the temporary $\frac{1}{4}$ corner between secs. 25 and 30, which will be the true $\frac{1}{4}$ corner unless we find old N.S. bearing trees here or further south along the line, and to this stake we mark up new bearings as follows: Norway Pine 18 S 7° 6' E. 106.25 feet; N. Pine 12, N. 51° 11' E. 52.60 feet at 8° 10' variation to blaze near base of trees, only marked in pencil. I mark stake "temporary $\frac{1}{4}$ corner set by Lewis."

At stake set by Jas. D. Middleton for a temporary $\frac{1}{4}$ corner near this point sets about 290 feet west and 50 feet north. At the corner to secs. 30-31-25 and 36, Gov't notes call for: Jack Pine 6, N. 54° E. 42 links; Jack Pine 8, S. 81° W. 32 links; Jack Pine 8, N. 49° W. 50 links; Jack Pine 8, S. 68° E. 16 links.

I find that I once established this corner about 16 years ago, from old Gov't bearing trees, but as I have not got my notes, and as we do not find the old trees, I begin at a spike in our transit line, 5378.15 feet north of the S.E. cor. of twp. 145-rge. 28, and run a 90° angle west, 550.30 feet, where we dig up the spike set yesterday, and put in its place a 2½ x 48 inch galvanized iron pipe, capped on top with a 3 inch iron cap, and having a 2 foot, half inch iron thro. the bottom to act as an anchor and set well into the ground for the temporary corner, and unless I find the old bearing trees, this iron stake will be the true sec. corner for all time.

Going to the S.E. corner of T. 145, R. 28, we pull up the cedar corner previously set by us, and put in its place a 2½ x 48 inch galvanized iron pipe, with 3 inch cap and a two foot, half inch iron rod through the bottom to act as an anchor, set well into the ground, for the true north boundary line of sections 1, twp. 144, R. 28 and also for the S.W. cor. of section 31, T. 145, R. 27. being also the S.E. corner of sec. 36, twp. 145, R. 28, on the 11th Standard parallel.

From the temporary S.E. corner of sec. 25, to the temp. $\frac{1}{4}$ corner north, we run a line of spots thro' the heavy pine timber, to mark the true line between those points.

Dec. 17th 1912, I and Erickson work, we drive a spike in our transit line, 2689.08 feet north of the S.E. corner of twp. 145, rge. 28, from which we turn a 90° angle and run west 290.15 feet where we set well into the ground for the temp. $\frac{1}{4}$ cor. an iron post, 2½ x 48 inches in size, with anchor rod thro' the bottom and a 3 inch cap on top, this iron will be true $\frac{1}{4}$ cor. unless we find the old bearing trees. From this temp. $\frac{1}{4}$ corner, we mark new bearings as follows: N. Pine 10, S. 76° E. 44, 77 feet; N. Pine 18, S. 34° W. 18.09 feet.

A 20 inch Norway pine which some late surveyor has marked for a $\frac{1}{4}$ cor. bearing tree stands N. 5° 11' E. 245.80 feet distant, courses taken with transit and turn from transit line, at 8° 10' var.

At this point being the $\frac{1}{4}$ cor. between 31 and 36, Gov't notes call for: Jack pine 12, S. 81° E. 14 links; Jack Pine 14, N. 64° W. 16 links. All appear to be gone.

From a point 50 ft. east of our iron post set, Rockraw's R. R. bears N.W. & S.E. Going half a mile north to hub on our transit line at 5378.15 ft we run a compass line west thro' temp. iron corner, and at a point about 1160 feet west of hub 5378.15 and about 580 ft. west of our

SURVEY RECORD No. 222.

Temporary N.E. cor. of sec. 36, an old post temporarily set by James D. Middleton bears north about 75 feet. There are two big Norway trees here, that are blazed so as to appear to have been old bearing trees: one is big 2 foot Norway pine, standing about a hundred feet N.E. of the stake and the other is a broken off Norway, about 16 inches in diameter and is about 25 feet S.E.; neither have any timber scribe marks and I ignore them as bearing trees as they were not made by a U.S. Surveyor's

half a mile south of this point are 2 twelve inch Norway trees which stand and are blazed in about the position called for in the field notes for the 4 cor. between 31 and 36, but as they are not "Jack pine" and are not marked they were not made by the U.S. Surveyors and are located about half a mile north and 900 ft. west of the S.E. cor. of T. 145 R. 28.

Written on the East tree in pencil is the following:
Correct 4 post 2 tallies 84. paces east - this 4 is N.G. - J. F. Bartlett - J. D. Caldwell - Sept. 6 - 1910"

At a point 100 paces north of the S.E. cor. of sec. 24 the U.S. road and telephone line runs N.E. + S.W.

As we still have left 1 galvanized iron pipe 2 1/2 x 48 inches in size with a 3 inch cap on the top and a half inch iron rod 2 feet long run thro the bottom for an anchor, I give it to Oscar Erickson and tell him to put it in place of the stake we set for the temporary 4 corner on the east side of sec. 25 - T. 145, R. 28. I take P.M. train home to Walker, to look up my old field notes of the survey I once made along the G.N.R.R. near range line of 24 and 25 these surveys I made before the G.N.R.R. was built about 16 years ago and at that time I found the old bearing trees to the corners which now appear to be lost.

Survey made Dec. 11th to 17th 1912

Recorded Dec. 31st 1912.

John W. Cuss. Co. Sur. Pass Co Minn

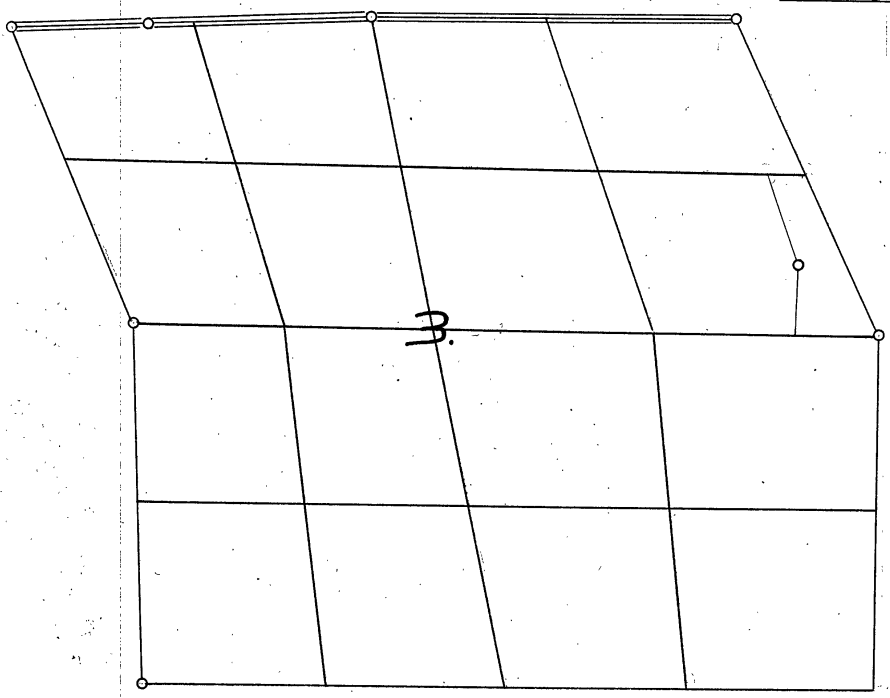
- PLAT -	
Sec Cont'd From Page of this Book	
3	535
NOTES:	
3	534

PLAT

Sec 3, T143 N R28 W 5 PM

scale _____

SURVEY RECORD No 223



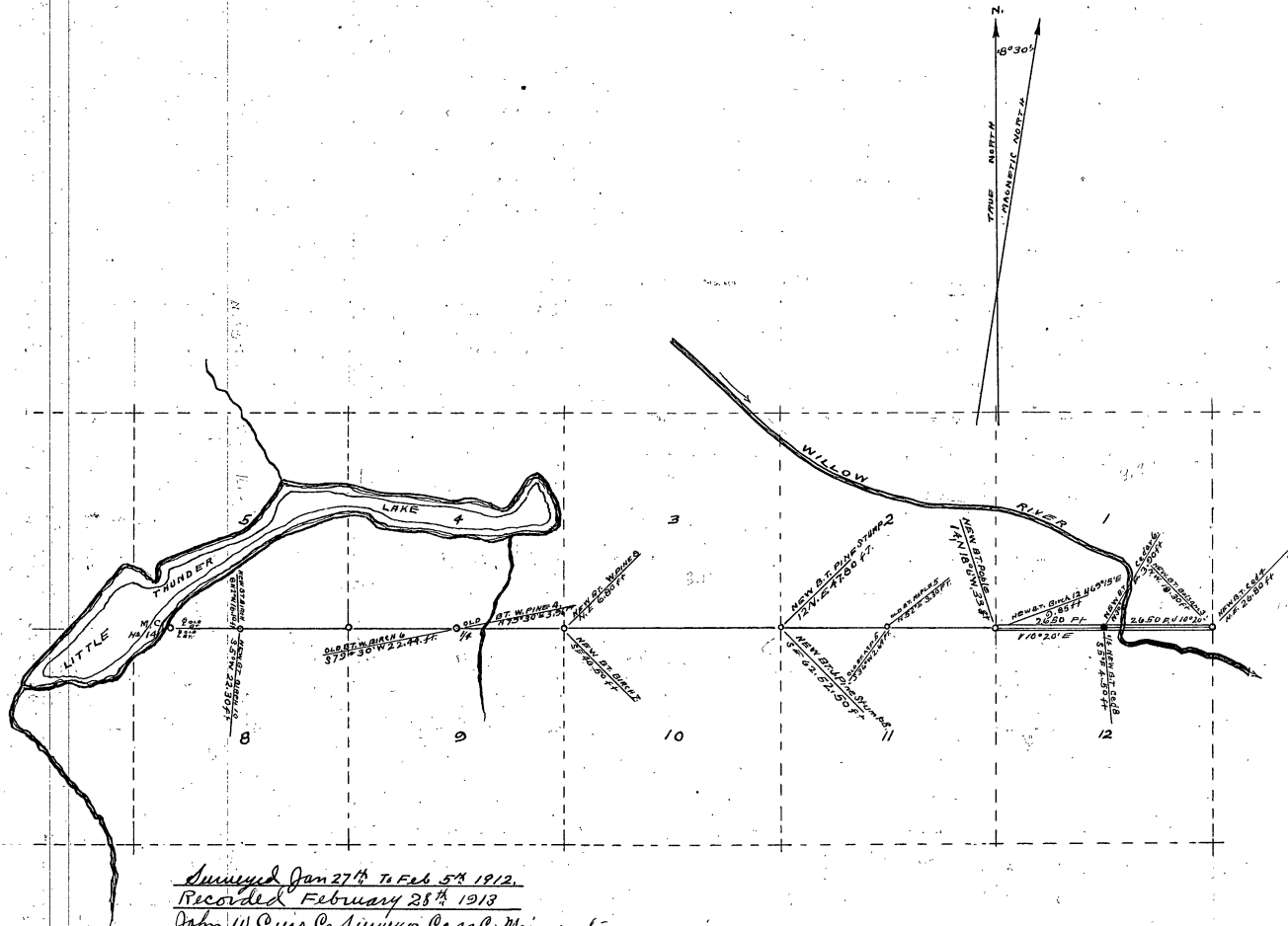
NOTES:	143-28
Sec Cont'd to Page of Book	
3	

PLAT:	143-28
Sec Cont'd to Page of Book	
3	

PLAT
T. 140 N. R. 25 W. 5TH PM.
SECS. 1, 2, 3, 4, 5, 8, 9, 10, 11, & 12.

SCALE: 2 IN. = 1 MILE.

SURVEY RECORD No. 229.



Surveyed Jan 27th to Feb 5th 1912.
Recorded February 28th 1913
John W. Cress Co. Surveyors Cass Co. Minnesota

- FINISHED ROADWAY
- U.P. CORNERS FOUND AND REESTABLISHED
 - U.S. CORNERS LOST AND REESTABLISHED CORRECTLY

Field notes of the survey and establishment of new corners and new bearing trees in Sections 1, 2, 3, 4, 5, 8, 9, 10, 11, and 12, of Township 140 N. Range 25 W. 5th Principal Meridian, as surveyed by Harry S. Todd Deputy County Surveyor of Cass County Minnesota established and recorded by John W. Curo, County Surveyor of Cass Co Minnesota

Jan 27th 1912 Harry S. Todd transitman: Harley Cosner and Marlin Hawk, as men and chainmen: At the corner to Sections 1, 2, 11 and 12, T 140 N. R 25 W, notes of the U.S. survey call for a post and the following bearing trees: Aspen 10, N 33° 30' W, 40 links: Aspen 10, S 48° W, 20 links: Birch 10, S 39° 30' E, 15 links: Birch 6, N 61° 30' E, 35 links distant: We find the S.W. bearing tree standing plainly marked but all the others are gone: from the one remaining tree, we establish the point for the true corner to Sections 1, 2, 11, 12, where we set a stake and mark new bearing trees as follows: Birch 12, N 69° 15' E, 9.85 feet distant: Poplar 14, N 18° 6' W, 33.00 feet distant: set @ 8° 30' Var: chained to face of spot on trees. From this corner I start Harley Cosner cutting brush West, and Marlin Hawk cutting brush East, then I go half a mile East to look for bearing trees to 1/4 corner to Sections 1, and 12: find nothing and quit for night. Over night with Levi Morrow.

Jan 28th 1913 Harry S. Todd transitman and chairman: Levi Morrow as man and chairman: Beginning at the corner to Sections 4, 5, 8, 9, 140-25 we we run a compass line and face East half a mile to the 1/4 Cor between Secs 4 and 9 where the notes of the U.S. survey call for a post and the following bearing trees: White Birch 6, S 79° 30' W, 34 links: White Pine 4, N 79° 30' E, 6 links distant: We find the stump of the white Pine plainly marked "B.T." and the Birch with the figures grown over: Going to Meander Corner N 1/4 14, on the East side of "Little Thunder Lake" we find both old cedar bearing trees standing green plainly marked. Quit for night

Jan 29th 1912. Harry S. Todd transitman and chairman: C. W. Metzger as man begin at the corner to Sections 1, 2, 11, 12, and cut line West. I go to the 1/4 corner between Secs 2 and 11, 140-25 where the notes of the U.S. survey call for a post and the following bearing trees: Maple 5, N 52° E, 5 links distant: Aspen 5, S 36° W, 4 links distant: The Maple stands green plainly marked but the Aspen is down: I dig around in the snow and find the stump of the old Aspen bearing tree, then walk to the corner to Sections 2, 3, 10, and 11, T 140, R 25 where the field notes of the U.S. survey call for a post and the following bearing trees: Black Pine 15, N 35° 30' E, 7 links distant: Black Pine 5, S 85° E 16 links distant: Black Pine 8, S 73° W 41 links distant: Spruce 6, N 70° W 10 links distant: I find the stump of the S.W. tree plainly marked, and a corner post set nearly in the right place by some cruiser. Quit for night: Over night with Levi Morrow.

January 30th 1912. C.W. Metzger and I cut line East from the corner to Sections 1, 2, 11, 12, T 140 - R 25.

Feb 1st 1912. Harry S. Todd and C.W. Metzger, A J Hawk and Marlin Hawk begin at the corner to Secs 1, 2, 11, 12, 140-25 already established and run a transit line East, over the cut out line at 8° 30' Variation: At 847 feet set hub: at 1390 set hub: at 1900 set hub: at 2640 set hub for temporary 1/4 corner between Secs 1, and 12, 140-25 where U.S. notes call for a stake and: Black Oak 5, N 16° 30' E 14 links distant:

SURVEY RECORD No. 224

Block ash $S 12^{\circ} E$, 14 links distant: We find an old tree laying in the snow marked so as to resemble one of the old bearing trees but as it is not marked properly, and is not the kind of a tree called for in the notes, and as the work of marking has been so recently done we pass it up and continue on transit line straight East:

At 3000 feet enter West bank of Willow River which runs South:

At 3100 feet East bank of river bears South: At 3336.30 set hub:

Quit for night. Over night with Levi Morrow

Feb 2nd 1912. continue transit line East:

At 3600 feet enter heavy cedar swamp. here the river has taken a bend so that its North bank comes within 75 feet of our line: At 4213.80

set hub: at 4750. leave low cedar swamp and enter raise covered with high land cedar and spruce: at 4530.30 set hub on

hill: at 4763.70 set hub: at 4800 ft leave high land and enter heavy cedar swamp: at 5300 the South-east corner of

Sec 1, being the Northeast corner of Sec 12, bears North 166 feet at which point the notes of the original U.S. survey call for a stake and the following bearing trees: White Cedar 8. $N 35^{\circ} W$ 18 links: White Cedar 7. $S 35^{\circ} W$ 7 links: We find the old U.S. stake and both of the old bearing trees but they are down and from these we establish a new corner and mark up new bearing trees on fallow:

Balsam 3. $N.W.$ 18.30 feet: Cedar 4. $N.E.$ 26.80 feet to face of spots

Todd - Merlin Hawk - and J.A. Hawk work all day Quit for night
Over night with Levi Morrow.

Feb 3rd 1912. Harley Corner and I work all day: We correct up the mile of line between Sections 1 and 12 and put in a new $\frac{1}{4}$ corner post with new bearings as follows:

cedar $6 N 30^{\circ} E$ 3.90 feet distant: Cedar $8 S 5^{\circ} E$ 4.50 feet: We set a stake on the corrected line, in the center of Willow River, at a point 2211 feet West of the $N.E.$ corner of Sec 12, and 439 feet East of the $\frac{1}{4}$ corner between Secs 1 and 12.

Twp 140 Rg 25. Quit for night

Feb 4th 1912 C.W. Metzger, Levi Morrow and I work all day, setting new section corners from the old U.S. bearing trees, and establishing new bearing trees: At the corner to Sections 2, 3, 10 and 11. 140-25 we set the true corner from the old U.S. bearing trees and mark up new bearings as follows: Birch stump 12.

bears $N.E.$ 47.80 feet: Jack Pine stump 8. $S.E.$ 62.50 feet.

At the corner to Secs 3, 4, 9, 10 notes call for a post and the following bearing trees: Tamarac 8 $N 65^{\circ} E$ 25 links: White Pine 8. $S 65^{\circ} 30' E$, 57 links: White Pine 9. $S 41^{\circ} W$, 16 links: Tamarac 8. $N 28^{\circ} 30' W$ 33 links distant: The $S.W.$ and $S.E.$ trees have been grubbed up, but we find the "B.T." mark on the stump of the $N.E.$ tree and we find the roots of the $N.W.$ tree which check out for position, from which we set a stake for the true corner to Sections 3, 4, 9, 10. T 140. R 25

with new bearings as follows: White pine 8, $N.E.$ 6.80 feet distant: White Birch 7. $S.E.$ 46.50 feet to face of spot.

We go to the $\frac{1}{4}$ corner between Sections 5 and 8. T 140. Rg 25. where

SURVEY RECORD No. 229.

the original notes call for a stake and the following bearing lines: White Birch N. 24° E. 3 links distant: Black Oak 6. S $35^{\circ}30'$ W, 11 links distant: I find the old lines from which we set a new $\frac{1}{4}$ corner post with new bearings as follows:

Birch 10, S 5° W, 22.30 feet Birch 8 N 7° W 16.10 feet. Quit for night.

Feb 5th 1912. I go to the corner of sections 4, 5, 8, 9, 140-25 where U.S. notes call for a stake and the following bearing lines: B. Oak 5 N 71° E 25 links Aspen 10 S 64° E 35 links: Aspen 7 S $23^{\circ}30'$ W 20 links: White Pine 10 N 47° W 23 links distant: I find all four old bearing lines standing plainly marked from which I set a stake for the true corner and do not think it necessary to put in new bearing lines.

From the corner to sections 4, 5, 8, 9, 140-25 I pace two miles south and look for old section corners but find nothing. Quit for night. Over night with Levi Morow.

Dated at Walker Minnesota this 8th day of February A.D. 1912.

Signed: Harry S. Todd, Deputy County Surveyor, Cass Co. Minnesota

Survey recorded this 28th day of February 1913.

John W. Cues

C. Surveyor Cass Co Minn.

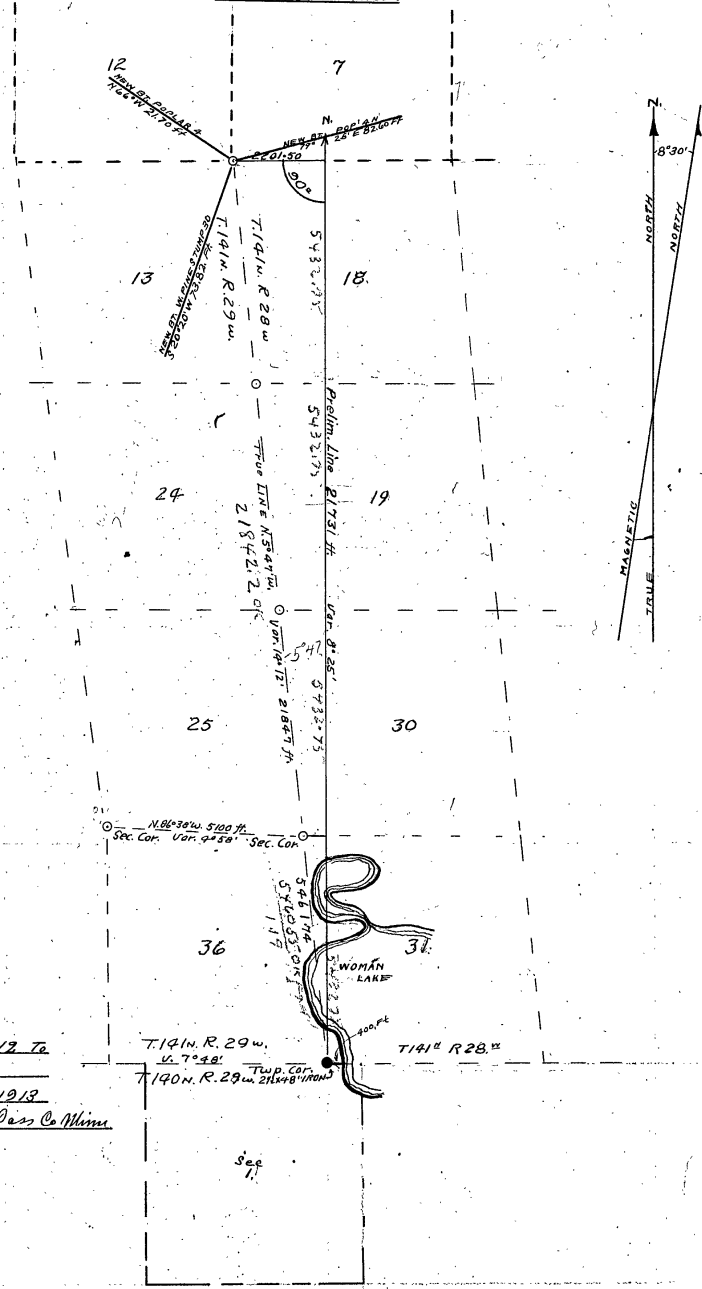
PLAT 141-29-
Sec. Cont'd From Page This Book
25 " " 535 " "
30 " " 537 " "

PLAT
SEC. 7, 18, 19, 30, 31, T. 141, R. 28, 5th P.M.
" 1, T. 140, R. 29 "
" 12, 13, 24, 25, 36, T. 141, R. 29 "

SURVEY RECORD No. 225

SCALE: 2 IN. = 1 MILE.

37
 54° 32' 35"



*Surveyed Dec 20th 1912 to
 Jan 16th 1913
 Recorded February 28th 1913
 John W. Cross County Surveyor Cass Co. Minn.*

T. 141 N. R. 29 W.
 V. 7° 28'
 T. 140 N. R. 29 W. Twp. Cor. 2488' 0" (1000')

Sec 11

SEC' 7-18-19-30-31, T 141, R 28, 5PM.

" 1 T 140, R 29 "

" 12-13-24-25-36, T 141, R 29.

Field notes of the survey made in Sections 7-18-19-30 and 31, Township 141 N, Range 28 W, and in Section 1, Township 140 N, Range 29 W, and in Sections 12, 13, 24, 25 and 36 Twp 141 N, Range 29 W, of the 5th Principal Meridian as surveyed by John W. Curo County Surveyor Cass Co. Minnesota. The instruments we use is a Heller & Brightly Engineers' transit in perfect adjustment and a standard 300 foot Chicago Steel tape: double center locked hubs & locks and a plumb-bob used in chaining over uneven ground: At the S.W. Corner of Twp 141 N, Rg 28 W, being the S.E. Corner of Twp 141 N, Rg 29 W, and the North boundary of Section 1, T 140, Rg 29 W, the notes of the U.S. Survey call for a post and the following bearing trees: yellow Pine 20, N 17° W, 54 links: White pine 24, N 16° E 45 links. We find the ball stub of both old trees -- the N.E. one being plainly marked, from which we set a 2 1/2 x 48 inch galvanized iron monument having a 3 inch cap on the top and a two foot iron rod half an inch thick run thro' the bottom to act as an anchor, and set nearly its full length in the solid ground for the true township corner: We establish the point for the true Township corner by flat chain from face of the old bearing trees and as the NW tree has been burned off we allow two inches for what has been burned off after which the old stubs stand as follows: White Pine Stub 24, N 16° E 29.70 feet: N. Pine stub 20, N 17° W 35.80 feet to hollow side burned off: We find two new bearing trees established by Harry S. Todd as follows: Birch 3, N 25° E, 19.14 feet: Tall Birch stump 10, N 85° W, 3.81 feet to face of figures: From this point we cut out a transit line East and find the distance about 400 feet to waters edge of Woman Lake which bears N. & S. From this iron corner just set we run N. on 8° 25' var: At 506 ft back in 4 inch Basswood stump: at 860 sea wall of Woman Lake bears N 75° W. for a distance of about 1/4 mile: at 1200. set stake on ice in Woman Lake about 1/4 mile E. of West shore: at 2700 cedar stake on ice: at 2940 ft leave Woman Lake where the shore line bears S 80° W, and East 400. feet then N 70° E for about 500 feet to N narrow then Westly. We continue our transit line North: @ 3000 set cedar stake: at 3133.20 oak Hub: at 3300 set pin: at 3340 again enter Woman Lake where the shore line bears NW and N 80° E about 600 feet to Narrows: at 4200 set stake 100 feet W. of cedar point and about 600 feet East of West shore of Bay: at 4950 ft to Woman Lake where the shore line bears S 80° W and East 1000 feet: at 5000 leave cedar swamp NE and SW: at 5100 stake: at 5237.60 set hub: at 5400 stake: at 5476 Longwell-Hackensack road bears E & W: No trace of 1/4 Cor. between 31 & 36 on the Cor. to Secs 25, 30, 31 and 36, continue N. at 7270 cross wagon road E & W: at 7829 ft set snow hub: at 8916.80 set snow hub: at 9250. enter open swamp: at 9900 enter small lake: at 9800 leave same E & W: at 9928.70 snow hub: at 11000 set snow hub: at 11700 notch in root: at 12632.80 ft N. Snow hub set 10. feet South of big upturned root where we chop off dirt so as to see over: at 12963.10 set snow hub: at 13826. center of main wagon road on old R.R. grade E & W: at 14009. snow hub: at 14760. old wagon road E & W: at 15744. back in log, Variation changes to 8° 10' - that is the magnetic pole bears N 8° 10' E of the true Meridian: at 17467.30 set hub: at 18000 stake in E. end of swamp: at 18600 stake in N.W. end of swamp (our chain gets broken) at 19091.90 hub: at 19298 crooked road E & W: at 19515 marsh: at 19570. S.E. corner of 5 acre lake: at 20100 to lake @ NE cor.

Twp. Cor.

25-30-31-36

Grade

SURVEY RECORD No. 225

at 20186.30 hub: at 20771.20 Hub: at 20778.00. I road on hog back bears NE & SW: at We haul looked well along this 4. miles of line for the old U.S. stakes and bearing lines but find no trace of them, continue north: at 21731.00 feet N. the corner to sections 12, 13, 7 and 18 bears west 2201.50 feet: at ^{21812.0} 21812.0 N set snow hub on top of hill then turn 90° angle carefully taken from our transit line and run west 2201.50 feet to a point 81. feet N. of cor. to Secs 7, 12, 13 and 18 on the Range line between Twp 141 N, Rg 28 & 29 W, at which point the notes of the U.S. survey call for a stake and the following bearing lines: Norway Pine 16, N 74° W, 80 links: Norway Pine 5, N 16° E, 81 links: Birch 4, S 16° W, 52 links: Maple 6, S 27° E 43 links: We find the tall dead tree of the 16. inch N.W. Norway pine, standing plainly marked and the stump of the Birch, which check out perfect for course and distance at 8° 10' 0" as and from these we set a 2x2x16 inch oak stake for the section corner and mark up new bearings as follows: White Pine stump 30, S 20° 20' W, 73.82 feet to back head in spot: Poplar 4, N 66° W, 21.70 feet: Poplar 4, N 79° 25' E, 82.60 feet to back heads: A well marked stake about 8 years old bears N 14° 30' E 31.85 feet to center of stake at 8° 10' 0": We put in this corner with a Survey Compass and a 100 foot steel tape. I run a compass line N & S along the place where the true Range line should be, but find no trace of the old corners. To put in the corner to sections 30, 31, 25 and 36 on the Range line between Township 141 N, Ranges 28 and 29 W, we set a hub on our transit line at a point 5732.75 feet N. of iron Township Corner, where we set the transit and turn a 90° angle and run West 550.37 feet and set a stake for the temporary corner with new bearing lines as follows: Tamarac 3, bears SW 27.79 feet Poplar 3, SE 26.63 feet: Poplar 5 NE 50.68 feet to flat spot: This stake just set will be the true NE corner of Sec 36 - T 141, R 29 unless we find the old U.S. bearing lines called for in the field notes which may locate the corner some other place. On account of deep snow and cold weather we are unable to make sure whether traces of the old bearing lines are really all gone or still exist under the snow. We postpone the survey until warmer weather.

John W. Curo transitman and chairman: Geo C. Williams Willis Sanford
flagmen and chairman: Harry Williams and Chas Cronander, axmen

Survey begun Dec 20th 1912 and finished Jan 16th 1913.

Survey recorded this 28th day of February A.D. 1913

John W. Curo, Co Surveyor Cor Co Minn

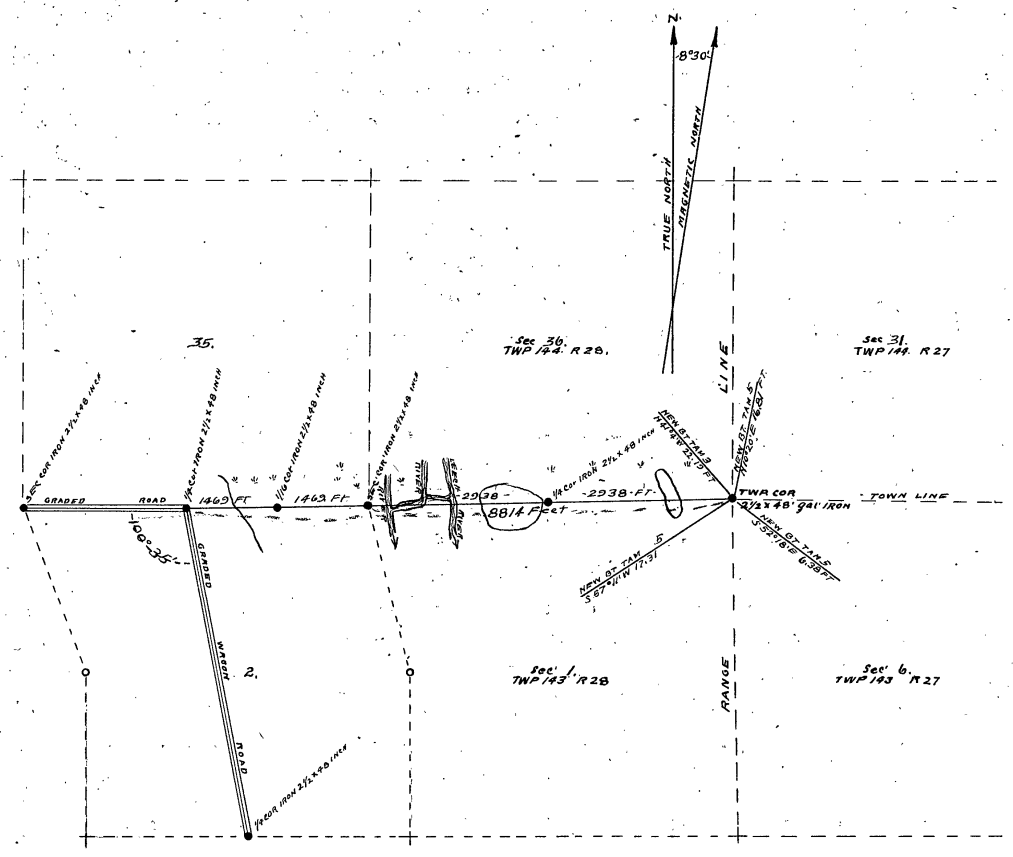
PLAT 143-28
Sec 2 Cont'd From Page 535 of this Book
PLAT 144-28
Sec 35 Cont'd From Page 535 of this Book

SURVEY RECORD No 226

-PLAT-

TWP 143 R 27 Sec 6.
" 144 " 27 " 31.
" 143 " 28 " 1, 2.
" 144 " 28 " 35, 36

SCALE 3 inches = 1 mile



Recorded Feb 28th 1913
John W. Carr, Co Surveyor, Cass Co. Minn.

Surveyed Feb 19th 1913

Sec'	6	T 143	R 27
"	31	" 144	" 27
"	1-2	" 143	" 28
"	35-36	" 144	" 28

Field notes of the survey of Section 6 Township 143 N, Range 27 W, and Section 31, Township 144 N, Range 27 W, and the survey of Section 1, and re-survey of Section 2, Township 143 N, Range 28 W, and the re-survey of Section 35 and survey of Section 36 of Township 144 N Range 28 W as surveyed by John W. Curo County Surveyor of Cass County Minnesota:

Feb 19th 1913 John W Curo transitman and chairman: Frank Roy, chairman and 4 men: We go to the corner of Sections 2, 3, 34 and 35 on the Township line between Townships 143 and 144 N Rg 28 W where we find an iron monument set by Deputy County Surveyor Harry S. Todd for the line Section corner: from this point Commissioner Swanberg has built a fine graded road half a mile East to the 1/4 corner between Sections 2 and 35 and the road is ditched on both sides with a good deep ditch and the distance between the center of ditches is about 28 feet: following this road East at about 1320 feet we find a stake set for the 1/4 corner and about 60 feet further East we find a big cross ditch running N & S thro a two foot iron culvert from where the ditch leads to 50 rods further North to Leech River.

At the 1/4 corner between Sections 2 and 35 we find another Iron Monument: set by Harry S. Todd for the line 1/4 corner and from this point South, Commissioner Swanberg has built a fine graded wagon road a mile South to the 1/4 corner between Sections 2 and 11, T 143 R 28: This mile of road has a deep ditch on each side about 36 feet between center of ditches and the whole 1 1/2 miles of road is well graded and ditched and runs through a heavy timbered Tamarac swamp. Out for night.

Feb 20 1913. Curo transitman, Frank Roy and Fred Beaulieu, 4 men, chairman and flagmen: Setting transit on iron 1/4 corner between Secs 2 & 5 between Twp 143 and 144, R 28, a flag set at the iron Sec' corner half a mile West reads 8° Var: Then turn thescope on road running South a mile, needle reads 18° 35' Var: Carefully taking the angle of the road running West with the road running a mile South, angle reads 100° 35'.

We put in new bearing lines to this 1/4 corner as follows: Tamarac 15 N 33° 46' W 42.73 feet: Tamarac 14, N 44° 18' E 46.30 feet to head of 30d spikes @ 8° Var. turned from line North boundary of NW 1/4 of Sec 2.

We use a new Heller & Brightly Engineers transit in perfect adjustment setting double center hubs for which we use spikes driven in the ice and frozen ground: Back sight on flag carefully set on line iron section corner half a mile west and run East 8° Var: We use a 300 foot steel tape and set a cedar stake at every chain length numbering each chain progressively: We need no plumb-bob as the land is level: Roy and Beaulieu Chairmen: at 950 feet enter open river meadow which bears NW and SE along the edge of which runs a Summer hay road at 2700 ft set spike hub in meadow: @ 3500 enter a part of Leech River: runs South: at 3350 L river: at 3381.50 spike hub in big open meadow on N. bank of another branch of Leech River coming from the East: At 3400 enter river SW & E

at 3865 L.V. river-bears West & North: at 4200 we are 35 feet South of what seems to be Leech River proper: at 4300 enter Leech River proper - bears NW & S: at 4400 L.V. same - runs South: at 4800 L.V. big open meadow, enter small pine Island: at 4891.50 spike hub on Island: at 5726. spike hub on Island: at 5800 L.V. Island enter big open tamarac swamp: at 6865.70 spike hub in small bunch of green tamarac, thence thro small dead tamarac: at 7837.30 spike hub on slight raise of solid ground in larger tamarac - bears NW - SE Quit for night.

Feb 21st 1913 Same crew continue East from quarter acre raise of solid land in swamp: at 7837.30 hub: at thence thro small dead tamarac. Variation changes to $7^{\circ}40'$ but we continue our transit line absolutely straight - not even one inch of crook: at 8811.30 spike hub in swamp: at 8814.00 the line Township corner sets North 113.60 feet. At this point being the Township corner to Townships 143 and 144 N. Ranges 27 and 28 W, the notes of the U.S. survey call for a stake and the following bearing lines: Tamarac 10. N $70^{\circ}W$ 14 links: Tamarac 9 S $20^{\circ}W$ 13 links: Tamarac 7 S $10^{\circ}E$ 20 links: Tamarac 3, N $80^{\circ}W$ 17 links distant:

We find the hill stumps of the SW and SE lines standing plainly marked, showing the number of the Section, Town and Range and also the "B.T." marks at the base: these stumps are very old and rotted and broke off at the top and the body of the trees are down and partly covered with moss - they stand perfect for course but the U.S. surveyors made a mistake in giving the distance distant as they got the measurements reversed as the SW line stands 20 links distant and the SE line 13 links distant, so by using the same courses recorded and just reversing the distances we establish the point for the line Twp cor where we dig away down in the moss and strike squarely upon the point and a part of the body of the old U.S. stake which we replace with a galvanized iron monument $2\frac{1}{2}$ by 48 inches in size, having a 3 inch cap on top: in setting this iron we first drive a tamarac piling 8 feet long by 2 inches thick over which we force the iron monument, then wallop the whole works down into the swamp until it takes several heavy blows of a big pale ax to make it move and leave it, so that the top of the iron sticks 16 inches above the swamp level, then put in new bearing lines as follows:

Tamarac 5, S $57^{\circ}11'W$, 17.31 feet: Tamarac 5, N $10^{\circ}20'E$, 16.81 feet: Tamarac 3, N $41^{\circ}4'W$, 22.19 feet to spike heads @ 8° variation: An old 8 inch tamarac stub marked "S 36 T 144 R 28 B T" bears N $75^{\circ}5'W$, 20.91 feet distant: the stump of one old "B.T." bears S $20^{\circ}W$, 13.20 feet (20 links) and the stump of the other bears S $10^{\circ}E$ 8.58 feet (13 links) and the iron monument just set is exactly where the old Twp corner stake was set by the U.S. Surveyors.

To correct this mile and a half of line West, we look for the $\frac{1}{4}$ corner between Sections 1 and 36 where U.S. notes call for a stake and the following bearing lines: Black Pine 16, S $89^{\circ}W$, 460 links and as there is no trace of either stake or line, we establish a new $\frac{1}{4}$ corner as follows:

Total distance U.S. chain from the $\frac{1}{4}$ corner on the N. side of Sec 2. East to the Twp corner is 7920.00 feet (U.S. chain and equals 8814.00 feet my chain being 894.00 feet longer than U.S. chain: Correcting West, at a point 5280 ft East on our random line, we chain 596.00 feet further East to 5876. East then North 75.74 feet where we place a $2\frac{1}{2}$ x 48 inch galvanized iron monument having a 3 inch cap on top and set half its length in the ground at the

SURVEY RECORD No. 226

N.E. edge of the Pine Island which is surrounded with open swamp; Mark new beams as follows: Dead Jack Pine 10, S 75° 44' W, 14.33 feet; Oak 5 N 73° 59' W, 38.09 feet to spike heads @ 8° Var; We could not set this iron 1/4 corner solid, as the ground is frozen so hard but I will go back next Summer and put it down further into the ground.

As all of the Meander Corners where this line crosses the river are lost we put in the corner to Sections 1, 2, 35 and 36 as follows: At stake 3000 ft East we chain West 62.00 feet to 2938.00 ft East, then North 37.87 feet where we dig a trench thro two feet of frozen meadow, into which we drive a 2. inch laminac piling 8. feet long, over which we force an iron monument 2 1/2 by 4 8. inches in size, having a 3. inch cap on the top, and then drive the whole works down into the solid meadow until it takes several blows of a heavy axe to make it move, and leave the iron sticking two feet above the meadow level - this is the true section corner to Secs 1, 2, 35 and 36. between Twp 143 x 144 N, Range 28 W.

Going West to Stake "5" being 1500 feet East on our random line we chain 31. feet West to a point 1469.00 feet East of the iron 1/4 corner, then North on 90° angle, 18.93 feet where we dig a trench thro two feet of frozen meadow into which we drive a laminac piling two inches thick by 8 feet long, over which we force a galvanized iron monument 2 1/2 by 4 8. inches in size having a 3 inch iron cap on top, and wallop the whole thing down into the solid meadow until it sets very solid and the top of the iron monument sticks two feet above the level of the meadow - this is the true 1/16 corner at the N.W. cor of Gout 2 at No 2. and the N.E corner of Gout lot No 3. of Sec 2. T 143-28, and the South boundary of Gout lot No 8, of Sec 35. T 144-28.

Survey made Feb 19th 1913 to Feb 21st 1913

Recorded this 28th day of February A.D. 1913

John W. Cline. Co Surveyor Cass Co Minn

PLAT

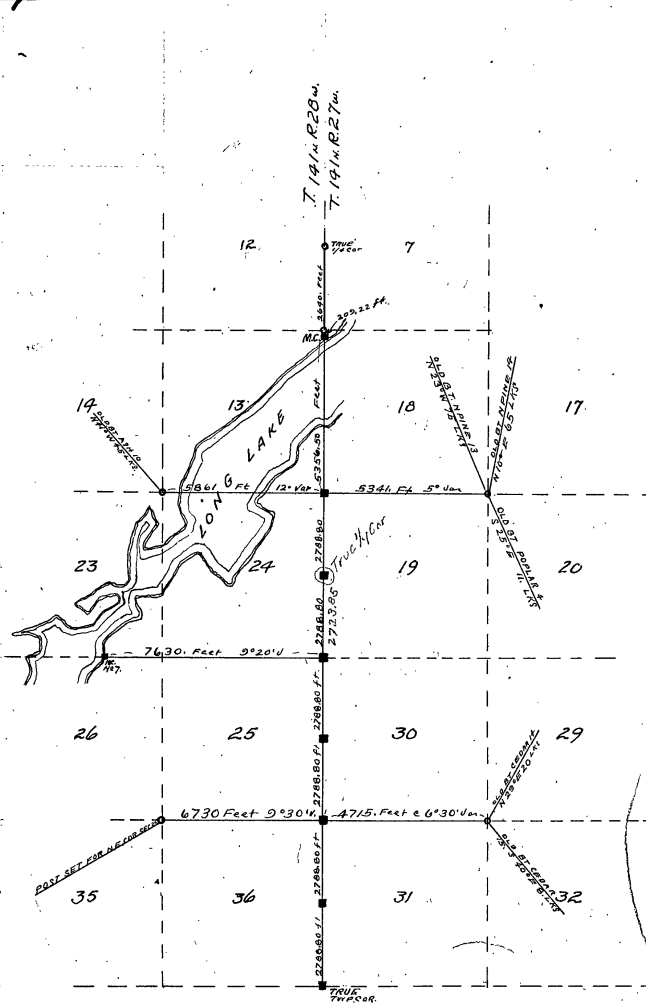
SECS. 7, 17, 18, 19, 20, 29, 30, 31, 32, T. 141 N. R. 27 W.

12, 13, 14, 23, 24, 25, 26, 35, 36, T. 141 N. R. 28 W.

SCALE: 1/2 IN. = 1 MILE

SURVEY RECORD No. 227

141-27		PLAT
Sec Cont'd From Page of Book	37	520 " A"
	38	520 " A"
141-28		PLAT
Sec Cont'd From Page of Book	36	520 " A"



Surveyed March 10th 15 22nd 1913
 Recorded March 26-1913
 John W. Cass County Surveyor Cass Co. Minn

141-27	
Sec Cont'd To Page of Book	7
	17
	18
	19
	20
	29
	30
	31
	32
	568 " A"
	568 " A"
141-28	
	12
	13
	14
	23
	24
	25
	26
	35
	36

-141-27-	-NOTES-
Sec. Cont'd From Page of Book	
31	522 " A"
32	522 " A"
36 T.141-28	522 " A"

SECS 7, 17, 18, 19, 20, 29, 30, 31, 32, T. 141 N. R. 27 W.

12, 13, 14, 23, 24, 25, 26, 35, 36, T. 141 N. R. 28 W. SURVEY RECORD No. 227

Field notes of the survey and re-survey of a part of sections 7, 17, 18, 19, 20, 29, 30, 31 and 32, of Township 141 N, Range 27 W, and sections 12, 13, 14, 23, 24, 25, 26, 35 and 36 of Township 141 N, Range 28 W, 5th Principal Meridian, as surveyed by John W. Curd, County Surveyor, of Cass County Minnesota, assisted by M. A. Kempf and Ben Clarke, both good surveyors.

March 10th 1913. Clarke and Kempf run a compass line from Long Lake 4 miles south along the range line but could find no traces of the old U.S. corners south of Long Lake.

March 12th 1913. M. A. Kempf transitman and chainman; Ben Clarke flagman and chainman, K & E. Engineers transit in first class adjustment and 300 foot Chicago steel tape, Kempf and Clarke chaining perfect, double center tacked hubs, and perfect straight lines.

Andrew Ford, (George "Dad") Ford, & Roy Devore, apmen.
Setting transit on true S.W. cor. of 141-27, being S.E. cor. of Twp. 141- Rg. 28, previously established, we mark up new bearing tree as follows. Oak 15, N. 22° 13' W. 189.00 ft. to tackhead @ 13° variation. Run north on 13° variation.

At 1988.50 ft. tack in log: @ 2056 trees blazed for Reservation line bears E. & W. @ 2469.40 tack in log: @ 2560 cross old B & W road, enter open swamp: at 3400 lv. same: at 3741.00 tack in log: at 3900 open swamp, partly meadow: at 4300 lv. same: at 4529.20 tack in log. at 5308.80 tack in log: at 5700 swamp: at 6400 lv. same: at 6520. tack in log on knoll: heavy cutting hardwood in first 2/3 mile

March 13th 1913. Same crew as yesterday; continue north.
at 7520.00 tack in log: at 8429.80 tack in log: at 9857.00 tack in log: at 10477.10 tack in log: at 11450.00 enter slough: at 11750 lv. same: at 11991.30 tack in log: Foggy and damp all day.

March 14th 1913. Severe blizzard all day, did not work.

March 15th 1913. Kempf, Clarke, A. Ford and Devore continue north.
At 12160. enter small lake: at 12500 lv. same: at 13516.50 tack in log: at 15050. tack in log: at 16731.00 tack in log: at 17633.40 tack in log: at 18062.60 tack in log.

March 17th 1913. Cold S.E. wind. Kempf, Clarke and Ford continue north. ✓
At 18981.00 tack in log on high bank of Long Lake. at 19090 enter lake. At 21925 lv. lake: at 22089.40, Meander corner, 74.20. of T. 141- R. 27, on Range line, bears East 108. feet. ✓ At this point the U.S. notes call for: White Pine 30 N. 30° E. 39 lbs: White Pine 30 N 57° W, 38 links. We find the N.W. tree, still green and plainly marked, from which at 8° 20' variation, we set a 3x3x36 inch oak stake for the true M.C. We could not find the N.E. tree, but an old Pine stump stands S.E. the right distance. Setting on the Meander Corner just established on north side of Long Lake and on the Range line between secs. 13 and 18, T. 141, R. 27 & 28, we mark the following bearings. Oak 3, N 64° E. 29.90 feet.

New blaze in old B.T.s. White Pine 36, N 57° W. 24.85-ft. to tack heads at 8° 20' var. The U.S. chain for this total run is 20910.78 feet and is 22089.40 feet my chain or 1178.62 feet longer than government chain.

Correcting back by proportionate measurement: At 16732.80 ft. N.W. run east 81.82 feet and set a 3x3x36 inch Elm stake, for the temporary corner to sections 18, 19, 13 & 24 with new bearings as follows:

SURVEY RECORD No. 227.

Oak 10, $N 40^{\circ} 53' W$, 23.75 feet; Poplar 12, $N 42^{\circ} E$, 67.65 feet. Maple 12, $S 29^{\circ} 20' E$, 66.65 feet. Pine Stump 40, $S 47^{\circ} 44' W$, 35.15 feet, @ $8^{\circ} 25'$ variation. The corner to sections 17, 18, 19-20, of Twp. 141-R. 27, bears East 5341.00 feet at 5° var. We go East and run the line between sections 17-20-18 and 19, and locate the corner then run a compass line west to the range line and chain the distance.

March 18th 1913. Kemp, Clarke & A. Forde work. We go west and survey between sections 14-23-13 and 24 and after locating the corner to sections 13-14-23 & 24-Twp. 141-R. 28, we chain a compass line east @ 12° variation. At 5280 feet E. we hunt thoroughly for traces of the old U.S. corner and bearing trees to sections 18-19-13 & 24, on range line but could find nothing so continue east and at 5861. feet intersect the new temporary corner just established. Correcting the line further south we begin at a point 13944.00 feet north and chain east 65.18 feet where we set a $3 \times 3 \times 36$ inch ironwood stake for the temporary $\frac{1}{4}$ corner between sections 19 and 24, and mark new bearings as follows:

Norway Pine Stump 20, $N 63^{\circ} 25' E$, 33.90 feet, N Pine Stump 20, $S 25^{\circ} 40' W$, 40.00 feet, to tackheads @ $8^{\circ} 20'$ var. Correcting further south we begin at a point 11155.20 and chain east 54.55 feet, where we set a $3 \times 3 \times 36$ inch spruce stake for the temporary corner to sections 19-30-24 & 25, on range line with new bearings as follows: Pine Stump 5, $20^{\circ} 30' E$, 65.30 feet. Oak Stub 5 $N 20^{\circ} E$, 43.65 ft. to tackheads at $8^{\circ} 20'$ variation.

Going west to Meander Corner No. 7, on east side of Long Lake between sections 23 and 26, Twp. 141, R. 28, run a compass line east on $9^{\circ} 20'$ var. At 6837 feet we hunt in all directions for the corner to sec. 24 & 25-30 & 19, on range line where God's notes call for: Norway pine 20, $S 10^{\circ} E$, 46 links. White Pine 30, $S 30^{\circ} W$, 47 lbs. Altho we search thoroughly in all directions everything is badly burned and we find nothing and continue east: At 7630 ft. East we intersect stake first set for the temporary corner to sections 19-30-24 & 25, on Range line.

March 19th 1913 Kemp, Clarke & A. Forde work:

Correcting line between sections 25 & 30: At hub 10777.10 N , we chain east 52.70 feet, and at 9857.00 we chain east 48.20 ft. at which points we set a tall stake blazed on two sides and marked "true line":

At 8366.40 we run East 46.90 ft. where we set a $3 \times 3 \times 36$ inch ironwood stake for temporary $\frac{1}{4}$ corner between sections 25 & 30 on range line, with new bearings as follows: Pine Stub 30, $N 42^{\circ} 45' E$, 61.00 ft. Pine Stub 40, $S 72^{\circ} 30' W$, 39.90 ft. at $8^{\circ} 20'$ var. to tackheads. Hub 7820.00 goes East 38.24 feet. And hub 6520.00 goes east 31.88 ft. at which point we set a tall stake marked "true line". At 5577.60 ft. N we chain East 27.27 feet where we set a $3 \times 3 \times 36$ inch tamarac stake for the temporary corner to sections 25-30-31 & 36 on Range line between T-141-R. 27 & 28 W . & mark new bearings as follows: Pine Stump 26, $N 61^{\circ} 45' E$, 52.20 ft. Oak Stump 5, $S 51^{\circ} 30' E$, 53.75 ft. Oak Stump 24, $S 37^{\circ} 15' W$, 30.35 ft. Pine Stump 20, $N 77^{\circ} 45' W$, 70.35 ft. to tackheads $8^{\circ} 20'$ var. A stake set by someone for the corner to sec. 25-26-35-36-T. 141-R. 28, sets West from the corner we have just set 6730 ft. at $9^{\circ} 30'$ var. Along this line for nearly a quarter of a mile west we hunt for old U.S. bearing trees and stake for the corner to sec. 30-31-25 & 36 on range line.

but could find no trace of them.

March 20th 1913. Kemp, Clarke & A. Forde: Go east and run a line between secs. 29 & 32 and 30 & 31, where we locate the corner to secs. 29-30-31 & 32 - Twp. 141- Rg. 27, from which we run west on 6° 30' variation, and at 4715 ft west we intersect the corner just set. Correcting line bet. secs. 31 & 36, hub 5308.10 goes east 25.96 ft.: Hub 4529.20 goes east 22.15 feet. Hub 3741.00 goes east 18.29 ft. at these points we set a tall stake marked "true line". At 2788.70 run east 13.68 ft. where we set a 4x4x36 inch spruce stake, for the temporary 1/4 corner bet. secs. 31 and 36 and marked bearings as follows: Oak 8 S. 60° 30' E. 43.50 ft.: Oak 12 S 27° W, 38.45 ft. to tackheads @ 8° 20' var. Hub 2469.40 goes E. 12.07 ft.: Hub 1988.50 goes East 9.72 ft.

March 22nd 1913. John W. Burr, Compassman: Begins at the 1/4 cor. between secs. 7 and 12 and paces a compass line half a mile south along the range line, between T. 141-R. 27 & 28, to the corner to secs. 7-12-13 and 18 where notes call for: White Oak 14 S 15° E, 30 lks.: Birch 6, north 18 links Poplar 6, S 57° E, 33 links: B. Oak 5, west 33 links: All of the old trees are burned but I find the roots from which point south to M.P. on N. side of Long Lake it is about the distance called for in the U.S. notes 209.22 feet.

Following along the newly established range line bet. Twp. 141, Rgs. 27 & 28, I find that the house and barn of B. L. Rwing, supposed to set in N.W. 1/4 of sec. 19, 141-27, a homestead not proved up on, is too far west and sets away over in NE. of NE. of sec. 24, 141-28, and is about 300 ft. too far west.

The house of Mr. Hicks supposed to set in N.W. 1/4 of sec. 30-141-27 on a homestead not proved upon, sets away over into sec. 25-141-28: Geo. Ford's saw mill supposed to set in S.W. of S.W. 1/4, of sec. 30, T. 141-R. 27, on a homestead not proved upon is too far west and is in sec. 25-141-28.

Andy Ford's house supposed to be on a homestead not proved up, in N.W. of N.W. 1/4, sec. 31-141-27, sets over in sec. 36-141-28.

This survey shows that in re-establishing the section and quarter section corners along this range line between Twp. 141- Rgs. 27 & 28 we have simply run a straight line from Standard Township Corner, about four miles north to the U.S. Meander corner on north side of Long Lake and have divided the measurements proportionately as to N. & S. and have placed new posts and new bearings which will be the true corners, unless we are able when the snow goes off, to find the old bearing trees which may cause us to change the line. And if the old bearing trees cannot be found we will consider these temporary corners the true corners and will pull up the wood stakes and put in their place permanent iron monuments which will be the true corners for all time.

Recorded March 26-1913
John W. Burr, Co. Sur. Cass. Co. Minn.

141-27	
Sec'	Cont'd to Page of Book
17	
18	
19	
20	
22	
30	
31	369 A"
32	369 A"
141-28	
12	
13	
14	
23	
24	
25	
26	
35	
36	

-PLAT-

Sec	Top	By	Cont'd From Page of Tail Book
3	140	27	372
4	"	"	372
5	"	"	520
6	"	"	520
31	141	27	504
32	"	"	504
33	"	"	503

A

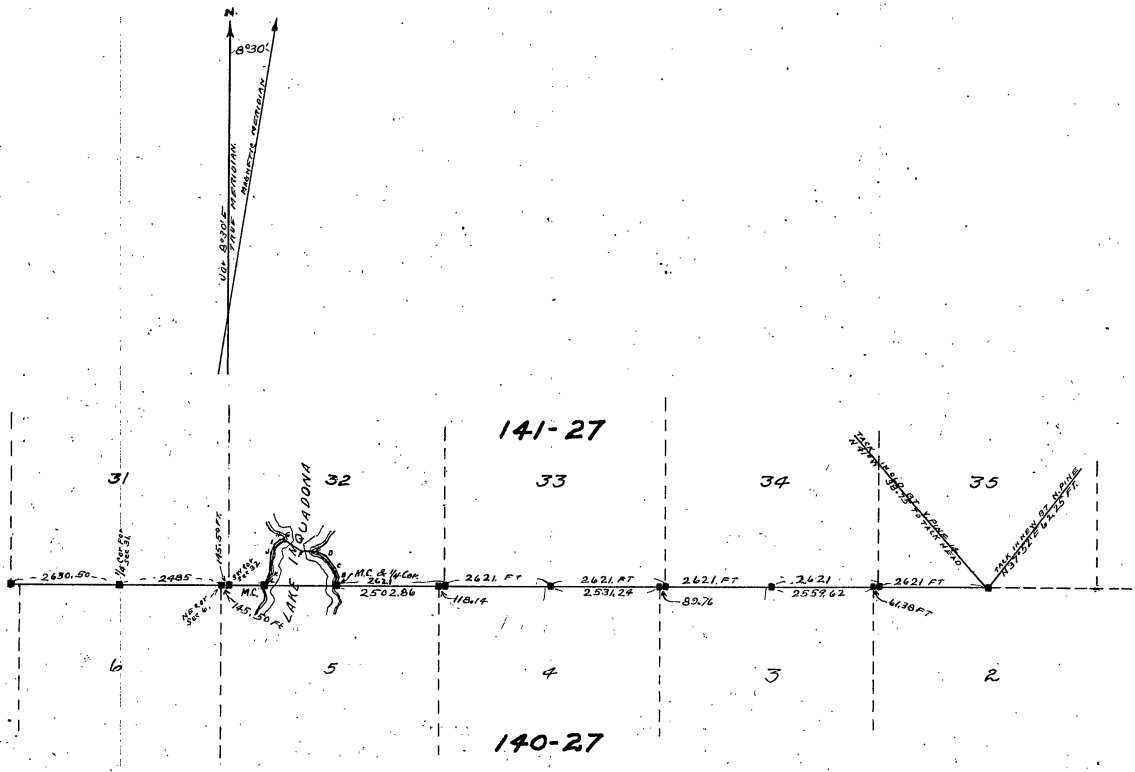
PLAT

SECS. 31, 32, 33, 34, 35, T. 141 N. R. 27 W.

" 2, 3, 4, 5, 6, T. 140 N. R. 27 W.

SCALE: 2 IN. = 1 MILE.

SURVEY RECORD No. 228.



Surveyed Jan 9th to March 8th 1913
 Recorded March 27th 1913
 John W. Cunn Co. Surveyors & Miners

Sec	Top	Pr	Cont	From	Page	Ass
2	140	27		311	A	
3				311	A	
4				311	A	
5				311	A	
6				311	A	
31	141	27		307	A	
32				307	A	
33				307	A	
34				307	A	
35				307	A	

SECS. 31, 32, 33, 34, 35, T. 141 N. R. 27 W.
 " 2, 3, 4, 5, 6, T. 140 N. R. 27 W.

Field notes of the survey and re-survey of sections 2, 3-4-5-6, Township 140 N, Range 27 W, and sections 31-32, 33-34-35 of Twp. 141 N, Range 27 W, of 5th Principal Meridian as surveyed by Harry S. Todd, Deputy County Surveyor of Cass County, Minnesota assisted by M. A. Kemp, Assistant County Surveyor, Examined, approved and recorded by John W. Ross, County Surveyor of Cass County, Minnesota. We use a K. & E. Engineers' transit in good adjustment and a 300. foot Chicago steel tape; correct chain and double center hubs:

Jan. 9th 1913. Kemp transit; Todd + Mark Snell flag and chainman. Wm McVey apman: go to the corner of secs. 32 + 33 - 141 - 27, where gov't notes call for: Fir 6 N 29° W 15 lks. Cedar 9 N 60° E. 44 links: all are gone and we set up on a transit line run by Todd: set over a hub 2640. ft. East of M. C. no. 27 of T. 141-27. Back sight on a hub in swamp and continue Todd's transit line East on 80° 15' var. at 3082.30 ft. tack in log: at 4196.40 tack in log: at 4997.50 tack in log:

Jan. 10th 1913. Kemp, Todd and McVey cut line east.

Jan. 11th 1913. Kemp, Todd and Morris Snell, continue to cut line east very cold 30° below and windy: we hunt for the 1/4 cor. on S. side of sec. 33, and the cor. to secs. 33 + 34 - 141 - 27 - but find nothing: Kemp, Todd, Mark Snell and Morris Snell and Ben Clarke, cut line East, weather fine, 10° below.

Jan. 14th 1913. Kemp and Todd chain. Clarke and Morris Snell outline, continue east: at 6188.80 tack in log: at 7329.20 tack in log: at 7440. enter swamp: at 7740 lb. same: at 9345.20 tack in log:

Jan. 15th 1913. Kemp, Todd, Clarke, Morris Snell + S. R. Rose: weather mild and soft, continue East: at 11697.20 tack in log: at 12386.30 tack in log: at 13985.40 tack in log: at 15726 the 1/4 corner on south side of sec. 35, T. 141 - R. 27, bears South 18 feet, at which point U.S. notes call for: Yellow Pine 14, N 42° W. 38.94 feet: White Pine 13 N 4° E. 38.94 feet. We find the N.W. tree still standing green plainly marked, and the rotted stump of the N.E. tree from which we set a 4x4x40 inch pine stake for the true 1/4 cor. and take the following bearings:

Old Mark in N.W. tree, N 41° 15' W, 38.94 feet: Stump of N.E. tree N 4° W, 38.94 ft. tack heading new blaze on old B.T. bears N. 41° W, 38.75 feet: Jackhead in Norway pine bears N 87° 52' E 63.25 feet.

Jan. 16th 1913. Kemp, Todd and Clarke, correcting back: at sta. 13105 East, run south 15 feet where we set a 4x4x40 inch Jack pine stake for the corner to secs. 34 and 35 - 141 - 27 and mark bearings as follows: Jack pine 42, 48° 15' W 46.50 feet. Jack Pine 6 N. 50° 45' E. 43.60 ft. @ 8° 15' var. At 13043.62 E, run south 15 feet where we set a 4x4x40 inch Jack Pine stake for corner to sec. 2 + 3 - Twp. 140, R. 27, and mark following bearings, N. Pine 10 S 23° 30' W, 30.50 feet. Poplar 8 S. 40° 15' E, 34.00 feet. At 10484 run south 12.00 ft. where we set a 4x4x40 inch stake for 1/4 cor. on south side of sec. 34, T. 141, R. 27, and mark bearings as follows:

White Pine Stump 26 N. 51° 15' E. 12.63 ft. @ 8° 15' var.: At 7863. East, run south 9 ft. where we set a 4x4x40 inch oak stake for cor. to sec. 32 and 33 - Twp. 141, R. 27, with new bearings as follows: Poplar stump 10 N. 74° 45' W, 43.80 ft. Dead Poplar 12 N. 59° E. 110.90 ft. @ 8° 15' var.

At 7773.24 E. run south 8.88 ft. where we set a 4x4x40 inch stake for corner to sec. 3 and 4, Twp. 140 - R. 27 and mark bearings as follows: Pine Stump 30 S, 48° 15' W 106.40 ft. Poplar 8, S. 18° 15' E 61.80 feet, distant @ 8° 15' var.

SURVEY RECORD No. 228

Jan. 17th 1913, Kemp, Todd, Clarke & Mark Snell: At 52.42, East run south 6 feet where we set a 4x4x40 inch ironwood stake for 4 cor. on south side of sec. 33, T. 141-R. 27 and mark following bearings: White Birch 3 N 20° W 55.65 feet. White Birch 8 N 26° 30' E, 67.40 ft. @ 8° 15' var. At 262.1, East, run 3. ft. south

where we set a 4x4x40 inch stake for corner to sec. 32 & 33, 141-27 from which: Poplar 12 N 46° 30' W 62.65 feet. Poplar 10 N 34° 15' E. 70.70 feet, @ 8° 15' var.

At 2502.86 E, run South 2.85 feet where we drive a 6 inch spike in a 10 inch poplar stump for corner to sec. 44 & 5, T. 140-R. 27. At 33 feet east of M. C. No. 27, T. 141-R. 27, on east side of Inguadonna Lake we set a hub "A". Set over hub "A" and run angles for road across narrows. N, 11° 36' E. 154.60 ft. to hub "B". From hub "B" run N 20° 37' W 214.80 ft. to hub "C". From hub "C" run N, 34° 13' W, 402.80 ft. to hub "D". at "D" mark bearings as follows: Oak 15, S 83° 40' E, 39.30 ft.

Jan. 18th 1913. Kemp, Todd and Clarke, continue to run angles Windy and cold as the devil: From hub "D" run N 65° 40' W 187.40 feet to hub "E". from hub "E" run north 89° 9' W, 433.50 feet to hub "F". from hub "F" run north 58° 2' W, 524.20 feet to hub "G" at which point we set a new bearing, being oak 18, N 53° 36' W, 34.60 feet. M. C. No. 27, bears S, 49° 32' E.

From hub "G" run S. 77° 4' W 88.00 feet to hub "H". from hub "H" run S 53° 23' W 144.90 feet to hub "I". From hub "I" run S. 22° 23' W 203.00 feet to hub "J". From hub "J" run S. 6° 2' W 552.80 ft. to hub "K" and from hub "K" run S 48° 17' W, 117.70 ft. to hub "L". From hub "L" run S. 65° 26' W, 175.80 ft. to hub "M." which is on true line 89.40 feet of West Meander Corner No. 26, Twp. 141, R. 27, on west side of lake. These angle lines just run is a preliminary survey for the proposed road center and may be changed.

March 8th 1913. Kemp and Clarke. Correcting back along line, using Todd's Survey of March 1912: at 2630.50 ft. E. of S. W. cor. to sec. 31-T. 141-R. 27, we run north 10.50 ft. where we set a 4x4x40 inch stake for 4 corner on south side of sec. 31-T. 141-R. 27. and mark following "B.T.'s". Oak Stump 18, N 17° 23' E. 76.80 ft. Pine Stub 9, N. 66° 46' E. 74.25 feet. nothing else available. Hub 3536.28 goes north 14.11 ft. At 5115.50 run north 20.42 ft. where we set a 6x6x40 inch stake for 4 cor. to sec. 15 & 6, T. 140, R. 27, and mark new bearings as follows: Norway 8, S 30° E. 178.00 feet, @ 8° var. Corner to sec. 31 and 32-T. 141-R. 27 bears East 145.50 ft. @ 5° 09' variation.

Recorded March 27th 1913
John W. C. Co. Surveyors & Co. Minn.

Secs. 4, 8, 9, 16, 17, 19, 20, 21, 28, 29, 30, 31, 32, 33 T. 136 N. R. 29 W.
" 5 AND 6. T. 135 N. R. 29 W.

5TH P. M.

SURVEY RECORD No. 229.

Field notes of the survey of a part of Twp. 136 N. Range 29 W, 5th Principal Meridian, through sections, 4-8-9-16-17-19-20-21-28-29-30-31-32-33, and in Twp. 135 N. Range 29 W, 5th P. M. through sections 5 and 6, as surveyed by, John W. Curd, County Surveyor of Cass County Minn. I use a new K. & E. Engineers transit in perfect adjustment and a 100 foot Chicago steel tape.

Sat. Feb. 20th 1909. I am working for the Township of Soon Lake: Ludwig Mathison and I chaining; Mat. C. Anderson and Otto Lund, apmen: at the 1/4 cor. bet. secs. 4 and 9, 136-29, U.S. notes call for: Black Pine 5 S. 66° W, 13 lks.; B. Pine 6 N, 75° E 27 lks. We find the stump of the S.W. B.T. plainly marked from which we set the true 1/4 cor. from face of figures @ 8° 46' var: we set a hub and tack in the snow for the 1/4 corner then take bearings as follows: Old B.T. stump bears S 66° W 8.58 ft. to figures: Dead Stump 6, bears N. W. 20.27 ft. to tack heads. The stump of the old N.E. B.T. is there, cut off close to the ground but as there are no figures we cannot use it, tho if we did use it, it would set our 1/4 tack about one (1) inch further west: as we have no proof that the N.E. stump really was the old B.T. we pass it up and only see the other.

1/4
4-9

Beginning at the 1/4 cor. bet. secs. 4 and 9, we run south on 9° var. at 200 set hub: at 1045 hub near stump: at 1320 hub: at 1330 enter slough: at 1520, we are 30 feet west, of solid ground: at 1620 -lv. slough, enter solid ridge of land running E. & W. at 1670 enter big open bog: at 2300 touch E. edge of solid ground and continue along W. edge of slough: at 2410 ft. lv. swp., enter Jack pine: at 2640 set hub, for temporary center of sec 9, S.E. of a white school house: at 3026 hub: at 3440 hub: at 3960 hub: at 4804 hub: at 5280 stake: at 5326 set hub: from which point a stake set by Mr. Suffman, sets 16.50 feet East. at this point, being the 1/4 cor. bet. secs. 9 and 16, T. 136, R. 29, U.S. notes call for: Black pine 7, S 34° W 35 lks. B. pine 8 N. 63° E. 54 lks. We did not find any bearing trees which we are sure are right, there is an old dead stub marked "B.T." This "B.T." mark Mr. Mat. C. Anderson says was put on by Mr. W. A. Suffman. Mr. Anderson further says that they all looked for this "B.T." mark and for other old bearing trees, from early morning untill 3 o'clock in the P.M. and found nothing untill Mr. Suffman called them up to look at the "B.T." he had found. The "B.T." was certainly made after the stub had been burned, and was made with a big marking iron, which compares exactly with the same marks Mr. Suffman made on the stub higher up - this was not one of the old bearing trees. About 50 feet N.E. of this stub marked by Mr. Suffman we find an old mark on a Jack pine tree, it had grown 3 inches over the marks and is marked "45" but marked with a knife, not a marking iron commonly used by U.S. Surveyors, below this mark we chop into the tree and find a "B.T." mark: this tree if it was marked by the U.S. is the old N.E. bearing tree as the marks are on the S.W. side, but as we cannot find a corresponding S.W. tree or a sign of any old stumps or roots I decide it is not an old bearing tree, as the marks appear to have been made about twenty years ago, and as I cannot use either the marked stub or tree, I decide to survey the line between secs. 9 and 16, before establishing the 1/4 cor.

1/4
4-9
Run S 9°

1/4
9-16
NG

Feb. 23rd 1909. Mat C. Anderson and I chaining: plumb-hob-line: 7 P.M. W. H. Krampf and Peter Wallin apmen: At the corner to secs. 20-21-28 and 29 - T. 136 R. 29, U.S. notes call for: Bl. Pine 8, N. 76° E. 50 lks. Black pine 6 N. 60° W 81 lks.: Norway pine 14 S, 27° W 48 lks. N. Pine 14 S. 17° E. 65 lks. We find the N.E. Jack pine,

1/4
9-16
NG

20-21-28-29

SURVEY RECORD No. 229

standing, dead but plainly marked: The S.E. Norway is standing plainly marked, and the stump of the S.W. Norway is plainly marked "B.T." and from these we set our true section corner. I find the distance between the S.E. & S.W. Norway 1.16 ft. off - that is the S.W. Norway shot the corner 1.16 ft. further north than a measurement from the S.E. Norway so proportionate the distance: total distance of 31.68 ft. and 42.90 ft. equals 74.58 ft. by way of courses is 1.16 ft. over length or 75.74 ft. so east "B.T." is .66 of a foot long or 43.50, and the S.W. "B.T." is .50 of a foot short or 31.18 feet: after setting true corner to sec. 20-21-28 & 29, U.S. bearing trees are as follows: N.P. Stumps old S.W. B.T. should be 31.68 but proportionate measurement leaves it .50 of a ft. short or 31.18 ft. to face of B.T.: The S.E. Norway B.T. should be 42.90 ft. but proportionate measure leaves it .60 of a foot long so it is 43.50 to face of B.T.: The N.E. Jack pine old B.T. is

20-21
28-29

MC 28
28-29
20-21

20-21
28-29
19-20

20-21
28-29
19-20
29-30

20-21
28-29
19-20
29-30

19-20
29-30

19-20
29-30

19-20
29-30
20-21

19-20
28-29
20-21
29-30

19-20
29-30

O.K. 33.00 feet. The N.W. B.T. is gone. The U.S. Meander Post No. 28, between sec. 20 and 29, 136-29, on east side of Soow Lake calls for the following bearing trees: N. Pine 14, S. 25° E. 34 links: N. pine 10 N 11° W 58 links: We find the S.E. Norway stump, plainly marked "B.T." from which we set the true M.C. post at 8° 46' var. from face of B.T. marks: The N.W. tree is gone: this true Meander Corner sets in south edge of outlet to Soow Lake which runs east and 3 ft. west of end of bridge plank bridge runs N. & S.: at this M.C. we set a tall pole then work transit on line between this M.C. and cov. to sec. 20-21-28 & 29, where we run a picket line and measure carefully west and find the distance of 3030 links (1999.80 ft.) U.S. chain, to be 2034.50 ft. my chain, or 34.20 feet longer than U.S. chain. Beginning at the corner to sec. 20-21-28 & 29-136-29, run west at 9° 30' var.: at 1320 set stake, at 168 a center slough: at 1999.80 ft. pin: true M.C. No. 28, sets west 34.20 feet: at 2015 E. edge of Sea Wall: at 2034.50 split pole set for M.C. No. 28, thence continue west across Soow Lake: at 2640 pin on ice: at 3960, pin on ice: at 5050 W. lake: at 5101.40 true M.C. No. 27, set North 77.45 feet: at 5363.55 true corner to sec. 19-20-29 & 30, sets north 102.25 feet.

At M.C. No. 27, on W. side of Soow Lake, notes call for: N. Pine 18 S 6° E 47 links: N. Pine 14, N. 59° W 52 lks.: We find the S.E. tree standing green, plainly marked from which we set the true Meander stake at 8° 46' var. as a meridian, chained from face of figures: the stake sets just in edge of water: The N.W. B.T. is gone.

At the corner to sec. 19-20-29 & 30, T. 136-R. 29, N.S. notes call for: Spruce pine 12, N 36° E 42 links: Spruce pine 10, S. 32° 30' W 35 lks. Spruce pine 8 S 32° E 38 lks. Spruce pine 14 N 34° W 76 links: We find the stump of the N.E. tree plainly marked "B.T." and the other stumps stand fine for course and distance, but the marks have been burned off: A part of the N.W. 14 inch tree is there but down and marks burned off: we set a stake from the N.E. tree, @ 8° 46' var. from face of figures, where we drive a nail then chop off a sound place in the stump of the old S.E. B.T. into which we drive a nail: new B.T. as follows: Pine stump S.E. 25: 73 ft. to nail head: old B.T. N.E. 27.72 ft. to nail head. The snags of the old S.E. & N.W. B.T.s are 1 foot to far apart by proportionate measurement I give the N.W. B.T. 8 inches, and the S.E. B.T. 4 inches of the over plus: some one has set a stake about 50 feet S.W. of our true corner.

Kranp and Wallin, cut line south on 8° 30' var. while I and Anderson check chain the whole distance east, to the east side of Soow Lake and find it correct: as we re-chained the line from the Lake east in the forenoon, this finishes the whole mile which we find correct.

Feb. 26th 1909. Still working for Soow Lake Twp. Mat. R. Anderson & I chaining plumb-bob line, correct. Peter E. Wallin & W. H. Kranp. cutting brush. Beginning at the corner to sec. 19-20-29 & 30-136-29, run south on 8° 46' var. at 1080 hub on small hill: at 1320 hub: at 1596 center of main wagon road bears E & W. at 1908. Cen. of another wagon road, runs E & W: at 2125 hub about 30 ft. east of road at 2640 hub 30 ft. E. of road for temporary 4 cov. at this point being 4 cov. bet. 29 & 30 W.S. notes call for

SURVEY RECORD No. 229.

1/4 sec 29-30-31-32
containing
Temp. 114
29-30-31-32
old B.T.S. 011

N. Pine 18, S 44° E 10 lks; N. Pine 20 N. 61° W. 16 lks. All are gone and we continue south, at 3123 set hub; at 3960 set hub for temp. 116 at 4270. 60 set hub. at 5280 set hub. The true corner to secs. 29-30-31-32 - 136-29 bears S 27° 48' W 64 ft. or 56.50 ft. south and 29.80 west. Feb. 27th 1909. Mat B. Anderson, W. H. Kramp and Peter F. Wallin & I work in A.M. We set the true cor. to secs. 29-30-31-32-136-29, where govt notes call for: Bl. Pine 8, S: 58° E. 62. (0067) links (= 70.92 ft. for 44.22 ft.) Black Pine 8 S. 57° W. 80 lks (= 52.80 ft.) Bl. Pine 7, N 75° W 86 lks (= 56.76 ft.) Bl. Pine 8, N. 59° E. 93 lks (= 61.38 ft. or 64.68 ft.) I find all the old bearing trees plainly marked and all standing except the S.W. tree which has been broken off 3 feet high. I also find they do not check out for measurement, but I set the stake from courses, carefully taken at 8° 46' var. as a meridian. Every course is perfect and the distance to the face of the N.W. & S.W. trees is absolutely correct. The S.E. and N.E. trees are 5 lks. further off than the notes seem to give them. After I have set a stake marked "true section corner" the old U.S. trees stand as follows: 8° 46' var. Bl. Pine 8 S 58° E. 44.48 feet to tack head drove in "B.T." this seems to be 5 lks. further away than notes call for but the course is perfect: Bl. Pine 8 S 57° W 52.80 ft. to tack drove in "B.T." this is perfect both for course and distance with govt notes. Bl. Pine 7, N. 75° W 56.76 ft. to tack head drove in "B.T." this is also perfect for course and distance with the U.S. notes. Bl. Pine 8, N 59° E. 65.48 ft. to tack head drove in B.T. this is correct for course but 5 lks. further away than govt notes say. This is correct and could not be set by "proportionate measurement" because it sets right in 6 directions which will hold over the 2 short measurements, and the corner could not be placed any place else. P.M. Peter Kramp worked in P.M. in place of W. H. Kramp: Correcting line between secs. 29 & 30 - 136-29 at hub 5280 S, the corner sets south 27° 48' W 64 ft. Hub 3960 S, goes S 27° 48' W 48 ft. hub 2640 S goes S 27° 48' W 32 ft. where we set the true 1/4 cor. bet. secs. 29 & 30 with new bearings as follows: Pine Stump N.E. 22.65 ft. Pine Stump N.W. 23.30 ft. to tack heads. hub 1320 S goes S 27° 48' W 16 ft. where we set a stake marked "true sec. line, road center", hub 1080 S, we set west 6.03 ft. check chain the whole mile and find it correct.

S. 1/4 sec 29-30
1/4 sec 29-30
New B.T.S.

Feb. 28th 1909. P. F. Wallin & W. H. Kramp, apm: Mat B. Anderson Curo chaining: setting transit on corner to secs. 29-30-31-32-136-29, run south Mag. var. N 9° E. at 1320 set hub; at 1650. 30 ft. set hub; at 2640. set spike: the 1/4 cor. is gone; at 2700 enter creek bottom; at 2793. cen. of plank Culvert; at 2925. cen. of 30 foot plank Bridge; Stony Brook runs S.E.; at 2975. lv. same meadow; at 3248 hub on hill; at 3960 hub; at 4099. set hub; at 5280 set hub; and for this hub 5280. we mark new bearings to hold it as follows: Jack pine 7 S 52° 29' E 23.65 feet. Jack pine 6 S 8° 33' W 16.70 ft. to tack heads, courses turned from our preliminary line first run: At the cor. to secs. 15-6-31-32, on town line bet. Twp. 135 & 136 N. R. 29 W. U.S. notes call for a stake and the following bearing trees: Pine 8 S 38° E. 62 lks. Pine 8 N. 28° 30' E. 70 lks. Pine 9 N 9° W 117 lks. Some one has set a stake here, from two old pine roots which check out perfect for course and distance to face of where the figures should be: these roots or stumps stand N.E. & S.E., the S.E. stump being S 37° E. instead of S 33° E. as given in the notes, (only 1° difference) From this stake we take bearings to 4 new trees which have been marked up by some one as follows: Jack pine 6 N 26° E. 21.12 ft. Jack pine 6 N 36° W. 20.30 ft. Jack pine 7 S 59° 52' W 36.30 ft. Jack pine 7 S 53° 51' E. 5.4 ft. to tacks we have driven in the B.T. marker, @ about 9' var. I decide to use this old stake just as tho it is correct, in correcting up the line bet. secs. 31 and 32, then if I find later that it is correct, I will not have to change my line, I will find out later who set it. Setting transit on hub 5280 S, old stake bears S 15° 25' E 34.90 ft. hub 2640 goes S 15° 25' E 17.45 ft. where we place

29-30-31-32
Rov 5 940
1/4 sec
5280 116
B.T.S. 16
5280

5-6-31-32

old stake
new B.T.S. 1/2

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1/4 31-32

stake for the temp. 4 cor. bet. sec. 31+32 T. 136 R. 29 and mark new bearings as follows: Fence post S.E. 33.40 ft. Old stump N.E. 16.25 ft. to tack. Hub 1320 S. goes S 15° 25' E. 8.72 ft. 08 ft to tack heads. All first class chain and double centers. Work done for Soon Lake Sup.

E & W Cen 32

1/4 bet 32-33 old ST OF.

Rem W 8° 30' Elm 32

1/4 bet 31-32

March 1st 1909. I am working for W. H. Kramp, running a line E & W thro bet. sec. 32+33, T. 136-R. 29, Gov't notes call for; Tam. 18 v 18° E 23 lks; Tam. 22 v 62° W 19 lks; We find the big N.W. Tamarac plainly marked, dead but standing, with top broke off, from which we set the true 4 post @ 8° 46' var. from face of B.T. measurements taken in sec. 33 fails to locate the N.E. tree; with transit on 4 cor. we run west 8° 30' var. thro cen. of sec. 32: @ 105 ft. cen. of little 3 ft. Brook, runs S; at 660. top of hill: 1320. hub: at 1907.50 set hub close to south side of Kramp's house; at 2640 hub, temp. Cen. of sec. 32: at 3960 hub: at 5244. the 4 post we set yesterday bet. 31+32, sets N. 11.84 ft. Correcting back we set: 3960 N. 8.94 ft. where we set a small stake marked "true E & W cenline", with B.T. as follows: Jack Pine 6 East 3.90 ft. Jack pine 6 north 1.45 ft. to tack heads: At 2640. we chain N. 5.96 ft. where we set a stake marked "true E & W. Cen. line", with bearings as follows: Jack Pine 10 S. W. 31.45 ft. Jack pine 6 N.E. 11.10 to tack heads: At hub 1907.50 we chain north 4.03 ft. where we set a stake marked "true E & W. Cen. line", with B.T.S. as follows: Fence post north 9.85 ft. J. Pine 10 East 15.90 ft. to tack: At hub 1320 we run N. 2.94 ft. & set stake with new B.T.S. as follows: Jack pine 1, S.W. 9.30 ft.; Old bl. stump 4, S.E. 8.75 ft. to tack: This is all a rough chain E & W. but run straight.

March 2nd 1909.

We are working for Soon Lake Sup. with M. Anderson & I work all day; W. H. Kramp works in A.M. Ludwig Mathison works with us in P.M. Snowed the Summit, off and on all day. We are trying to establish the 4 cor. bet. sec. 9+16-136-29, but as the marks there do not suit us we will have to run the line E & W. to locate the 4 corner. Going to the cor. of sec. 8-9-16-17, T. 136, R. 29, we run short lines in all four sec. searching for the old U.S. bearing trees, which the gov't notes call for as follows: Bl. pine 63 8° E. 14 lks. Bl. pine 6 v 45° E. 25 lks. Bl. pine 7 v 57° W 70 lks. Bl. pine - 572° W 62 lks. We could not find them on account of deep snow. There is a graded road at this point and the old stake may be under the road surface. We take dinner with Mathison then drive to Sibley Lake and down on the ice to M.C. No. 25, on W. side of lake bet. sec. 9+16-T. 136-R. 29, where gov't notes call for: N. pine 14 v 51° W 46 lks; N. Pine 20 S 77° W 62 lks; We find two old stumps which stand perfect for course and distance, but can make out no plain iron marks: the measurements from these stumps being a stake just in the water's edge, and as we cannot make this corner out plain we will wait till the snow goes off. We find M.C. No. 24, bet. sec. 9+16-136-29, on W. side of Sibley Lake where gov't notes call for: N. Pine 18 v 72° W 70 lks; Bl. Pine 12 v 35° E 75 lks; the N.E. Jack pine is green and standing plainly marked, and a big N.P. stump stands N 82° W as per field notes but it is only 37 ft away, and it is not marked, we do not use it. We set a small stake from the face of B.T. of N.E. tree, 8° 46' var.

1/4 9-16 NB

89-16-17 snow on 2-20-09 to 6-1-09

ONE N° 25 W bet 9-16 old 15-75 8 10

ONE 24 N bet 9-16 old 15-75 6 10

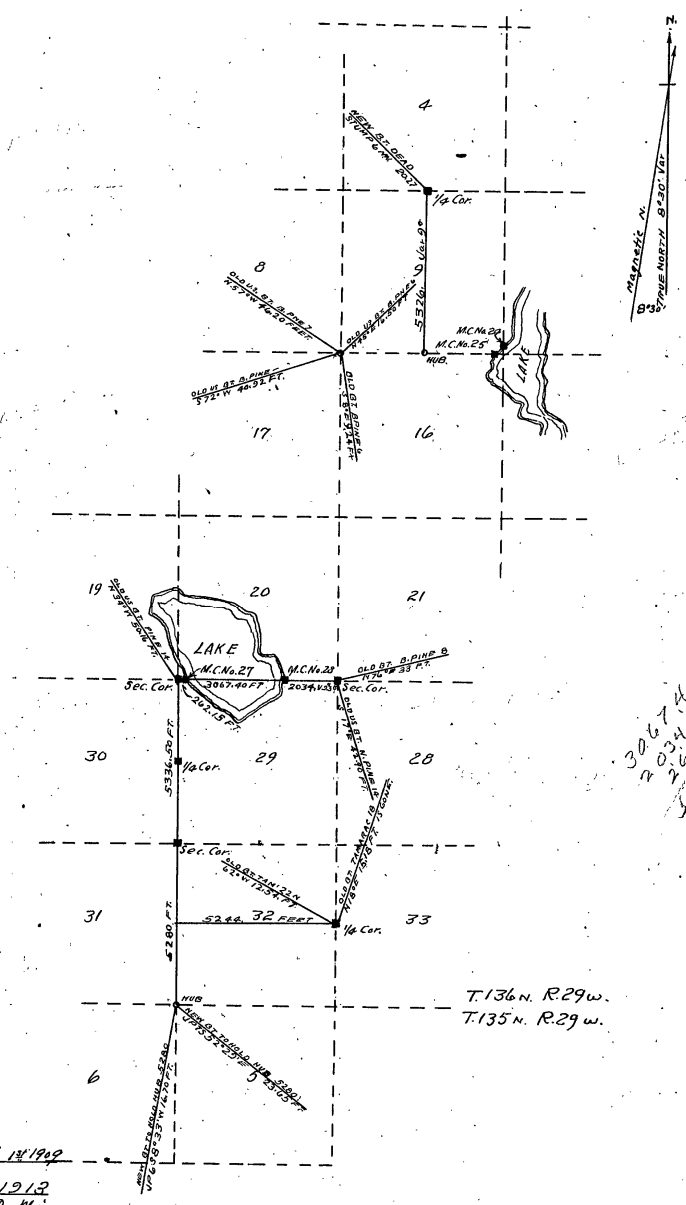
Recorded March 28th 1910
John W. Cress Co. Surveyors Cass Co. Minn.

A
575

PLAT
SECS 4, 8, 9, 16, 17, 19, 20, 21, 28, 29, 30, 31, 32, 33, T. 136 N. R. 29 W.
SECS 5 & 6, T. 135 N. R. 29 W.
5TH P.M.

SCALE: 1 1/2 IN. = 1 MILE.

SURVEY RECORD No. 229.



Surveyed Feb 20th To March 14th 1909
Recorded March 28th 1913
John W. Curo Co. Sur. Cass Co. Minn.

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Sec.	Cont'd From Page of Book	Page
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24	431	A
25	431	A
26	431	A

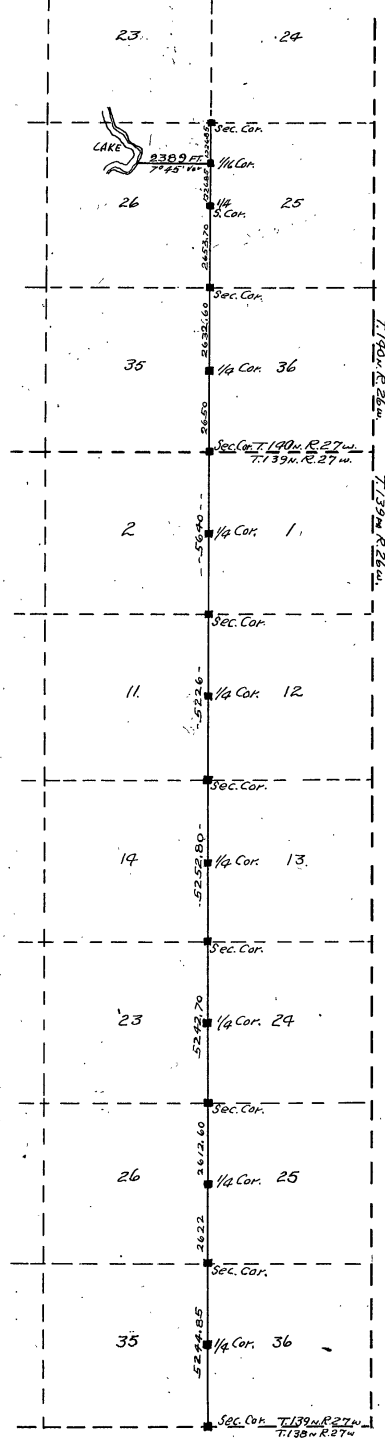
A

PLAT

SECS. 23, 24, 25, 26, 35, 36, T. 140 N. R. 27 W.
1, 2, 11, 12, 13, 14, 23, 24, 25, 26, 35, 36, T. 139 N. R. 27 W.
5TH P.M.

SURVEY RECORD No. 230.

SCALE: 1 1/2 IN. = 1 MILE.



Surveyed Jan 29th to Feb 25th 1912
Recorded March 24th 1913
John W. Cuss Co Surveyors Cass Co Minn

NOTES		
140-27		
Sec	Cont	From Page of This Book
23	1	433
24	1	433
25	1	433
26	1	433

SECS. 23, 24, 25, 26, 35, 36, T. 140 N. R. 27 W.
SECS. 12, 11, 12, 13, 14, 23, 24, 25, 26, 35, 36, T. 149 N. R. 27 W.
 5TH P. M.

A 577

SURVEY RECORD No. 230

Field notes of the survey of a part of township 139 N, Range 27 W, 5th Principal Meridian through sec. 1-2-11-12-13-14-23-24-25-26-35 and 36 and notes of the survey and resurvey of a part of Twp. 140 N, R. 27 W, 5th P.M. through sec. 23-24-25-26-35-36, as made by Harry S. Todd, Deputy Co. Surveyor of Cass Co. Minnesota, assisted by M. A. Kemp, assistant Co. Surveyor, of examined, approved and recorded by John W. Curd, Co. Surveyor. We use a K. & E. Engineers transit in good adjustment & a 300 foot Chicago steel tape, double center hubs.

Jan. 29th 1913, M. A. Kemp transit & chain; Harry S. Todd flag, ap and chain; walk to the cor. of sec. 23-24-25-26, T. 140, R. 27, established last year by Todd, and run S on 7°45' var.

Jan. 30th 1913. Same crew continue S. at 400 lv. swamp; at 1513.60 tack in log; at 1775.00 tack in log; at 2298.40 tack in log; at 2640.00 stake; we hunt for 4 cor. bet. sec. 25 26 and find nothing. Jan. 31st 1913, Stormy; could not work.

Feb. 1st 1913, Kemp, Todd, Some Carey and Frank Sealand work. Continue south: at 3320 enter swamp; at 3350 creek 4 ft. wide flows S.W. at 3500 lv. sup.; at 4042.10 tack in log; at 5187.00 tack in log; as we have out line nearly 4 mile past sec. cor. we decide to continue south with out setting over: at 5307.40, the cor. to sec. 25-26-35-36, T. 140-R. 27, bears E. 58.75 ft. at which point U.S. notes call for: Birch 5, N 59° W, 12 lks. White pine 12, N 64° E, 11 lks. Poplar 12, S 47° W, 22 lks. White Pine 6, S 17° E, 31 lks. We find the S.E. tree fallen but plainly marked and the stumps of the others, all of which check out for course and distance, we set a 3x3x24 inch stake for the true cor. driving it down thro the point of old stake, the burned top of which we dug out of the snow and mark the following bearings, at 8° var to tack heads: Pine stub 6, N 35° E, 52.58 feet; N. Pine 4, N 38° 53' W, 38.85 feet; N. Pine 3, S 53° 45' W, 41.00 ft. N. Pine 3, S 47° 36' E, 55.85 ft. Very cold, NW wind.

Feb. 3rd 1913. Very cold NW wind; Kemp, Carey & Sealand continue S. Still at 7°45' var: @ 5925 enter slough; at 6250 lv. same; at 6438.50 tack in log; at 6500 enter swamp; at 6700 lv. same; at 6840.00 tack in log; at 6850. enter bog; at 7100. lv. same; at 7403.30 tack in log; at 7650. enter tam. and cedar swamp, very heavy cutting; at 7940. the 4 cor. bet. sec. 35 & 36, T. 140, R. 27, bears E. 10.30 feet, at which point the U.S. notes call for: Tamar - N 77° E. 26 lks. Tamar 5 S 85° W 34 lks. We find the N.E. tree down, but plainly marked, and the rotted stump of the S.W. tree from which we set a 4x4x36 inch cedar post for the true 4 cor. with new bearings as follows: Cedar - S, 82° E, 30 ft. Cedar - S, 73° 30' W, 38.60 feet to tack heads in trees @ 7°45' var.

Feb. 4th 1913, Kemp, Todd, Geo. Snell, Carey & Sealand, set over 4 cor. just set & run S. 70°45' var. @ 165. ft. cross logging road, bears N 80° W: at 442 ft. cor. of creek 30 ft. wide, runs East: at 1079.50 tack in log in cedar swamp; we cut S. to S.W. cor. sec. 36, but it is too cold to set cor. it is 40° below zero with stinging N. W. wind.

Feb. 5th 1913. 48° below zero, with NW wind, did not work. Feb. 6th 1913 about 30° below. Kemp, Todd, Geo. Snell, S. Carey and S. Glend, continue S.: at 2050 lv. swamp. enter high ground: at 2160. lv. N.E. & S.W. to road: at 2650 cor. to sec. 35 & 36, -1 and 2, bet. Twp. 139-140 N, R. 27 W, sets E. 16.50 ft. At this point U.S. notes call for: W. Birch 4 N. 24° E. 31 lks; Spruce 4 S 35° E. 17 lks; W. pine 6 S 58° W 14 lks; Spruce 6 N 30° W 17 links: We find the stumps of the N.E. & S.W. trees which check out for course and distance from which we set a 4x4x36 inch pine stake for the true corner to sec. 1-2-35 & 36 with new bearings as follows: Pine stub 9, N 46° 23' E. 50.67 ft.; Pine stub 8 N 60° 50' W 11.96 ft. Pine stub 8 S 23° 10' W 46.00 feet Pine stub 6 S 42° 48' E. 45.75 ft. Thence in Twp. 139, Range 27. Setting on N. cor. to sec. 1 & 2, 139-27, we run south on 7°50' var.

Feb. 7th 1913. Kemp, Todd, G. Snell, S. Carey and S. Zealand continue S. at 275 enter tam. & cedar swp. at 507 tack in log in swamp; at 2557 tack in log; at 3450 enter high ground; at 4650 cross tole road which bears S. 80° E; at 5640 cor. to sec. 1 & 2-11 & 12 T. 139-R. 27 bears west, 150.30 ft. at which point the U.S. notes call for: White Pine 8 N. 60° E. 38 lks; Birch 6 N 10° W 27 lks; W. Pine 6 S 45° E. 18 lks;

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W. Birch 8 S 15° W 31 lks. J. Knutson identifies the stumps of the S.E. tree; we also find stumps of S.W. tree from which we set a 3x3x36 inch stake for the true cor. and mark the following bearings: W. Birch 12, N 55° 4' W 38.90 ft. W. Pine 10 N 52° E 66.25 ft. W. Pine 10 S 61° 12' W 52.25 ft. W. Pine 14 S 12° E 45.00 feet to tacks in trees @ 9° var. The tote road at this point is 50 ft. East of the cor. we check chain this mile and find it correct. Setting over the cor. to sec. 1-2-11-12-139-27, just set, we run S. @ 9° 15' var. at 200 ft. cross tote road which follows along about 15 feet W. of our line; at 563.50 tack in log; at 675 N. & S. tote road leads into E. & W. road; at 1100 enter tam. swp.; at 1500 lv. same, enter open swamp;

Feb. 8th 1913. Kempf, Todd and Geo. Snell, continue south; at 2271.70 tack in log; at 2750 lv. open swamp - enter tam.; at 3000 ground begins to rise;

Feb. 10th 1913, 11th & 12th 1913, Todd did not work; Feb. 13th 1913. Kempf, Todd, Geo. Snell, Carey and Zealand work; continue S. at 3704.50 tack in log; at 4755.30 tack in log; at 5226.00 cor. to sec. 11-12-13-14-T. 139, R. 27, set W. 221.70 feet, at which point U.S. notes call for: Baswood 5 N 77° E 24 lks. Aspen 6 N 40° W 21 lks. Maple 6 S 10° E 41 lks. Maple 8 S 15° W 31 lks; from which we set a 3x3x36 inch stake for the sec. cor. with new bearings as follows: Poplar 2 S 35° E 28.70 ft. Poplar 3 N 35° E 35.00 ft. Poplar 3 N 52° W 23.70 ft.

Poplar 2 S 74° W 29.75 feet to tackheads @ 8° var. As the men have cut over 1/4 mile of line S. past the sec. cor. we continue our transit line south; at 5438.90 tack in log; at 5800 enter swampy ground which slopes S. at 6443.30 ft. tack in log; at 6480 cross and hrs. N.E.; at 7200 low ridge; Feb. 14th 1913. Weather mild, same crew, continue south; at 7630.30 tack in log; at 7920 set stake; could find no trace of 1/4 cor. line is blazed about 150 feet W.; at 8050 enter swampy ground; at 9000 lv. same; at 9250.00 tack in log; at 9521.30 tack in log on hill; at 10227.00 tack in log on hill; at 10400 swampy ground; at 10560 stake; we hunt for cor. to sec. 13-14-23 & 24, T. 139 - R. 27, where U.S. notes call for:

W. Pine 6 N 60° E 28 lks. Aspen 7 N 29° W 40 lks. W. Pine 7 S 50° E 32 lks. Tam. 7 S 68° W 35 lks. We set a 3x3x36 inch stake for the sec. cor. from the old N.E. & S.E. stumps and mark the following new bearings: Poplar 3 N 55° E 37.50 ft. Poplar 4 S 68° W 20.30 ft. Poplar 5 S 4° E 48.70 ft. to tacks @ 8° var. no other trees near. At 10478.50 South, the cor. to sec. 13-14-23 & 24, just set, sets west 70.00 feet, at 10800 low ridge; at 11200 lv. same, enter swampy ground; at 11450 lv. same enter low ridge; at 11800 enter slightly timbered swamp; at 12200 lv. same; at 12449.50 tack in log; at 13000. enter open tam. swp. at 13200 stake hunt for 1/4 cor. but find no trees or stakes, old blazes about 175 ft. west of our line;

Feb. 17th 1913. Kempf, Todd, G. Snell, Zealand and P. Monette; continue south. at 14000 lv. bog enter poplar brush; at 14618.00 tack in log; at 15400.30 tack in log; at 15721.50 cor. to sec. 23-24-25 & 26, bears W. 239.50 ft., at which point Gov't notes call for: Spruce 12 N 56° E 57 lks. Tam. 14 N 45° W 23 lks. Aspen 15 S 30° E 77 lks. Tam. 12 S 70° W 43 lks. We find all four stumps which check out perfect from which we set a 3x3x30 inch stake with new bearings as follows: Poplar 6 N 25° E 51.85 ft. Poplar 5 N 52° W 51.00 feet to tackheads at 8° var. Feb. 18th 1913. Kempf, Todd, Snell and Monette;

beginning at cor. to sec. 23-24-25 & 26-139-27, run S. @ 6° 30' var. at 525 cross creek 12 ft. wide bears N 80° W and runs S.E. at 575 ft. cross wagon road E. & W. at 1190 tack in log; at 1690 cross road which hrs. N.W. & S.E. at 1733.30 tack in log; at 2612.60 true 1/4 cor. bet. sec. 25 & 26, hrs. East 82.60 feet, at which point U. S. notes call for: Birch 6 N 50° E 23 lks. W. Pine - N 60° W 19 lks; we find the stub of the N.W. tree plainly marked and the stump of the N.E. tree which check for course and distance; from which we set a 2x2x36 inch birch stake for the true 1/4 cor. and mark the following trees: Spruce 10, N 45° W 280 ft. W. Pine 14 N 52° E 21.90 ft. to tack heads @ 8° var.

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Beginning at the 1/4 cor. bet. secs. 25 & 26 just set we run S. on $6^{\circ}30'$ var. following a cut-out trail to save cutting.

Feb. 19th 1913. Kemp, Todd & Snell & Monette, continue south: at 776.00 tack in log: at 1396.80 tack in log: at 1673.10 tack in log: at 2000 enter swamp: at 2622.00 cor. to secs. 25-26-35-36, sets East 45.00 ft. at which point U.S. notes call for. Aspen 84.45° E 229 lks: Tamarac N 65° W 158 lks: Tamarac S 15° E 116.7 lks: Tamarac S 45° W 117 lks: We find the N.W. & S.W. trees plainly marked from which we set a 2x2x30 inch stake by flat chain and mark new bearing trees as follows: Tamarac N 56° 30' W 71 ft. Tamarac S 47° 41' W 33.60 ft. Tamarac S 22° 30' E 52.20 ft. Birch N 23° 46' E 117.00 ft. to tack heads @ $7^{\circ}45'$ var.

Feb. 20th 1913. Kemp, Todd, Snell & Monette; Fine, cold & windy: Beginning at the cor. to secs. 25-26-35-36 T. 139 R. 27, run S. on $7^{\circ}45'$ var. at 508 lvs swamp: at 130.36 tack in log: at 1300 tack in log: at 1575.80 tack in log: at 2200.00 enter tam. swamp: at 2640 we hunt for 1/4 cor. but find nothing: at 3000 lvs swamp: at 3345.00 tack in log: at 3982.50 tack in log, enter tamarac swamp: at 4300 lvs same: at 4501.25 tack in log: at 5150 enter swamp: at 5244.85 true corner to secs. 1-2-35 & 36, on trap line between towns 138-139 N, R. 27 W, sets west 77.25 ft. at which point the U.S. notes call for: Tamarac S 49° E 49 lks: Tamarac S 57° E 17 lks: Tamarac S 27° W 27 lks: Tamarac N 5° W 50 lks. We find all four plainly marked from which we set a 3x3x30 inch stake and mark new bearings as follows: Tamarac N 48° W 41.50 ft. Tamarac N 49° 40' E 57.90 ft.

Feb. 21st 1913. Kemp, Todd, Snell & Monette, connecting back thro sec. 35 & 36-139-27: Hub 4501.25 goes W. 66.30 ft. hub 3982.50 goes west 58.68 ft. Hub 3345.00 goes west 49.27 ft. at 2622.43 run west 38.63 ft. where we set a stake for the 1/4 corner between sections 35 and 36, township 139, range 27 and mark new bearing trees as follows: Tamarac N 63° 47' W 55.50 ft. Tamarac N 34° E 112.00 ft. Hub 1576.80 goes west 23.21 feet: Hub 1300.00 goes west 19.14 feet: Correcting south half between Secs 35 & 26-139-27: Hub 1673.00 goes East 28.63 feet: Hub 1396.00 goes East 28.94 feet: Hub 776.00 goes East 18.28 feet: Correcting north half of same sections: Hub 1190.00 goes East 34.61 feet: Hub 1733.30 goes East 54.78 feet:

Feb 22nd 1913. Kemp, Todd, Snell & Monette: Correcting line bet Secs 23 & 24-139-27: Hub 15400.30 goes West 228.95 feet: Hub 14618.00 goes west 203.70 feet: At 13100.15 run West 152.75 feet where we set a 2x2x36 inch stake for the 1/4 corner between Secs 23 and 24 T. 139-27 and mark new bearings as follows: Tamarac S 58.40° E 44.50 feet: Tamarac S 87° W 43.50 feet to tack heads @ $8^{\circ}30'$ var: Hub 13442.50 goes West 133.65 feet:

Correcting line between Secs 13 & 14-139-27: Hub 10227.00 goes West 77.20 feet: Hub 9521.30 goes West 27.60 feet: Hub 9250.00 goes West 105.85 feet: At 7852.40 run West 145.85 feet and set a stake for the 1/4 corner between Secs 13 & 14 T. 139-27 and mark the following bearing lines: White Birch 6, N 60° W, 30.75 feet: White Pine 18, N 47° E, 41.10 feet: to tack heads @ 8° var: Hub 6743.30 goes West 186.50 feet

Correcting line between Secs 11 & 12 T. 139 R. 27, Hub 4755.30 goes West 201.60 feet: Hub 3704.00 goes West 157.10 feet: At 2618.00 we run West 110.80 feet where we set a stake for the 1/4 corner between Secs 11 & 12 with new bearings as follows: Dead Tamarac 8, S 60° 53' W, 93.50 feet: Tamarac S, S 6° 14' E, 174.70 feet to tack: Hub 663.50 goes West 23.70 feet: Correcting the

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line between Secs 1 & 2 T 139 R 27: At 5640.00, corner to Secs 1, 2, 11, 12, sets East 150.30 feet: 5640.00 feet my chain equals 5329.50 feet Govt. chain: Hub 507 goes West 13.50 feet Hub 2557 goes West 68.11 feet. At 2846.10 run West 75.85 feet where we set the 1/4

corner between Secs 1 & 2 - T 139 R 27. at 3600 set stake West 95.90 feet: At Hub 4769 run West 126.91 feet

Feb 24th 1913. In Twp 140 R 9 27. Correcting line bet Secs 35 & 36 - 140-27 Hub 1079.50 goes East 6.72 feet which corrects the South half. To correct the North half of Sec 36 and 35 at 5307.40 the corner to Secs 25, 26, 35, 36 sets East 58.75 feet: at 7940.00 the 1/4 corner between Secs 35 & 36 bears East 10.30 feet: hub 6438.50 goes East 37.24 feet: hub 6840.00 goes East 30.55 feet: hub 7403.30 goes East 20.19 feet.

Correcting line between Secs 25 & 26, hub 4042.10 goes East 44.87 feet: at 2653.70 run East 29.38 feet where we set a 2x2x30 inch stake for the 1/4 corner between Secs 25 and 26 T 140 R 27 with new bearings as follows: Poplar 12.8 79°30' E, 38.30 feet: White pine 12, N 53°23' E, 29.40 feet: 15 lock heads @ 8° variation. At hub 2298.40 run East 25.51 feet: hub 1775 goes East 19.70 feet: hub 1513.60 goes East 16.80 feet: Kemp and Brill work today

Feb 25th 1913. Kemp and Brill work. At 1326.85 run East 14.69 feet where we set a stake for the 1/16 corner north of the 1/4 corner between Secs 25 & 26 T 140-27, and mark the following bearings: Birch stub 6, S 21°20' E, 38.15 feet: Birch 8, N 78°30' E, 27.55 feet @ 8° Var.

With transit on the 1/16 just set we run West on 7°45' Var: at 550 enter open swamp: at 1475 L^o same: at 1715 back in log on hill: at 2119. N 16 and SW road: at 2174.80 back in log: ground from here slopes to lake: at 2389 set tall stake on lake shore. This whole survey covers a proposed new wagon road to be built by the organized Township thro which it passes

Survey made Jan 29th 1913. T. Feb 25th 1913. Recorded March 28th 1913

John W. Puro, C. Surveyor Gen. Co. Minn.

Field notes of the survey of a part of township 142 N, range 26 W, 5th P.M. through sec 5, 6, 7, 8, 18, and sections 31 and 32 of Twp. 143 N. R. 26 W, as surveyed by John W. Curo, County surveyor, of Cass Co. Minn., and Harry S. Todd, his deputy. We use a N. & E. transit and a 300 ft. Chicago steel tape.

At the corner to sections 5-6-31 & 32, on town line bet. twp. 142 and 143 N, R. 26 W. govt notes call for a stake and the following bearing trees: White pine 12 S 14° W 23 lks (15.18 ft.) W. Pine 10 N 21° W 25 lks (6.50 ft.) W. Pine 12 N 33° E 30 lks (19.80 ft.) Spruce 6 S 74° E 13 lks (8.58 ft.) We find the N.E. & N.W. pines plainly marked and the S.W. pine sawed off so that the B.T. plainly shows. We find the distance between the N.E. & S.W. tree to be 430 ft. too long, so by proportional measure 15.18 ft. gets 1.57 ft. making 17.05 ft. and 19.80 ft. gets 2.42 ft. making 22.23 ft., total 39.28 ft. We drive an iron drift bolt 1x24 inches for the true sec. corner at a point 16.50 ft. from the N.W. bearing tree all measurements taken from face of B.T. marker. Run south on 8°30' var. at 407.70 tack in log: 1261.30 tack in log: 1320 temp 1/6 post: at 1500 set pin and enter swamp: at 1903.30 tack in log: at 2400 set pin, ls. swamp: at 2431.75 set hub: at 2640 hub: at 4th corner bet. secs. 5 & 6-142-26, govt notes call for: W. Pine 6 S 75° E 7 links (=4.62 ft.) W. Pine 8 S 15° W 6 lks (=3.96 ft.) The old trees are gone and we continue our transit line south. at 3346 tack in log: at 3960 temp 1/6 post: at 4024.60 tack in log: at 4554. tack in log for temp. meander cor. M&H on N. side of lake where notes call for: Spruce 8 N 16° E 400 lks. distant We find the stump of the old tree plainly marked "B.T." from which @ 9° var we set a stake for the M.C. With transit on hub 4554 S being temporary meander corner the true meander corner M&H just set bears 99.10 ft north and 32.50 ft east so that at 4554.08 ft. U.S. chain equals 4454.90 feet my chain.

At meander corner no. 42 on west side of lake between secs 6 & 7 twp 142 R 26 govt notes call for: Pine 8 N 28° W 30 links Pine 8 S 36° W 27 links we find both old trees from which we set a stake for the true M.C. & run west at 7°45' var: at 738.60 tack in log: at 975 ft. temp 1/6 cor At 1500.10 tack in log: at 2277 ft set pin for temp 1/4 corner the true 1/4 between sec 6 & 7 sets west 37.40 ft. and north 60.60 ft. so that at 2314.40 west true 1/4 sets north 60.60 ft. 2277.00 U.S. chain, equals 2314.40 ft my chain. At this point U.S. notes call for a stake and the following bearing trees: Samarac 4 S 13° W 8 lks Jam. 4 N 46° W 7 links: we find both old bearing trees and also the old U.S. stake, plainly marked, then correct our random line back east and set the 1/6 corner from which we run a preliminary line half a mile north thro the center of the S.E. 1/4 of sec 6.

At meander corner no 43 T 142 R 26 between secs 7 & 8 on S side of lake U.S. notes call for a stake and the following bearing trees Spruce 6 S 32° E 25 links we find the old stake in the bog plainly marked from which we run a line S 32° E in sec 8, a distance of 16.50 ft where we intersect the old 6 inch Spruce bearing tree plainly marked.

Beginning at the iron corner to sec 5-6-31 & 32 we run west along the twp. line on N side of sec 6-142-26 & S side of sec 31-143-26 on 9°15' var. at 868.75 tack in log: at 1320 temporary 1/6 cor at 2486.65 tack in log: at 2640 set temp 1/4 cor we can find no trace of the old 1/4 cor and continue west: at 2946 tack in log: at 3960 temp 1/6 post: at 3968.50 tack in log: at 5240.40 set temporary twp cor but can find no trace of the old corner because it is too old to make a thorough search. We look for the 1/4 corner on west side of sec 6-142-26 where we find an old stake and an old bearing tree marked with a timber scribe but they were not made by the U.S. Surveyor.

SURVEY RECORD No. 231

taking this stake as a temporary $\frac{1}{4}$ corner we run a line half a mile north and another line a mile east thro sec 6 but both of these lines are only random lines and will have to be corrected later:

Beginning at the $\frac{1}{4}$ corner on South side of sec 6 T 142 R 26 we run a transit line north as a preliminary survey; at $8^{\circ}30'$ var; at 940.70 tack in log; at 1328 temporary $\frac{1}{6}$ corner; at 2640.00 temp center post of sec 6; at 2659.10 tack in log; at 2952.20 tack in log; at 3636.75 tack in log; at 3960 temp $\frac{1}{6}$ post; at 4726.90 tack in log; at 5280 set temporary $\frac{1}{4}$ cor on North side of sec 6 from which we mark the following bearing: Poplar $3S 69^{\circ}25'W 8.60$ ft.

Beginning at the $\frac{1}{4}$ corner between secs 6 & 7 T 142 R 26 we run a transit line south thro sec 7 on $9^{\circ}45'$ var. At 164. tack in log; at 560.15 tack in log; at 1223.15 tack in log; at 1320 temp $\frac{1}{6}$ cor. at 2540 stake; at 2640 temp center post of sec 7; at 2740. stake; at 3170.85 tack in log; at 3632.70 tack in log; at 3960 temp $\frac{1}{6}$ post; at 3413.85 tack in log; at 5280. temp $\frac{1}{4}$ cor between secs 7 & 18 T 142 R 26 from which we mark new bearing trees as follows: run $S 64^{\circ}51'E 16.50$ ft. to birch tamarac tree in sec 18 and $S 61^{\circ}3'W 9.40$ ft to a birch tamarac tree in sec 18. Correcting North to hub 3960 S, being temp $\frac{1}{6}$ in cen of S half of sec 7 we mark the following: Tam $4N 25^{\circ}20'W 3.45$ ft Tam $4S 42^{\circ}5'E 4.65$ ft. Correcting further North to 2640. S, being temp center of sec we mark: Tam $3N 55^{\circ}9'W 14.45$ ft. Tam $3N 79^{\circ}53'E 20.40$ ft.

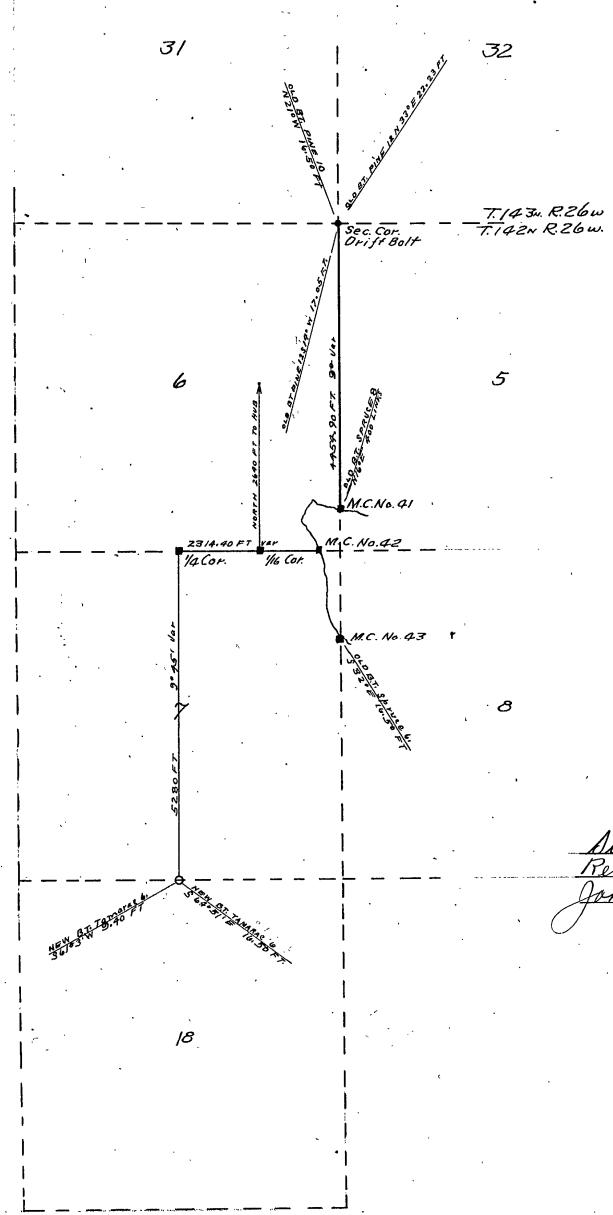
We look for the $\frac{1}{4}$ corner on west side of sec 7 & $\frac{1}{4}$ bet 7 & 18 but it is too cold to make a thorough search.

Curd and Todd transitmen, flagman & chainmen, D. H. Slater helped some in chaining: John A. Anderson, Dewey Slater, Char Alexander armen. Survey made Jan. 12 to 25th 1911.

Recorded March 28th 1913. John W Cms

PLAT
SECS. 31 AND 32, T. 143 N. R. 26 W.
" 5, 6, 7, 8, 18, T. 142 N. R. 26 W.
5TH P.M.
SCALE: 3" = 1 MILE

SURVEY RECORD No. 231.



Surveyed Jan 12th to 25th 1911
Recorded March 28th 1913
John W. Curo & Surveyors Cross Co. Minn

Field notes of the survey of a part of secs 30 & 31 Twp 135 N, R 31 W and secs 25 and 36, Twp 135 N, R 32 W, as surveyed by John W. Curo, County Surveyor of Cass Co. Minnesota, June 14th 1909. Curo transitman, apman and chainman; Jake Huffmann, flagman, Rodman, chainman & apman; we use a K&E Engineers transit with combination level, and a 100 ft. Chicago steel tape, and use a common red & white range pole graduated with a pencil and equipped with a white piece of paper for a target which we use for a level rod and range pole.

At the corner to secs. 30-31-25-36, on range line between ranges 31 and 32, Twp. 135 N, gov't notes call for a stake and the following bearing trees: Aspen $14 S 3^{\circ} 30' E 226$ lks; W. Birch $11 S 11^{\circ} W 268$ links; Aspen $13 N 3^{\circ} 30' E 1060$ links; Aspen $8 N 2^{\circ} 15' W 1080$ links distant. Geo. G. Hansen who lives on the S.W. $\frac{1}{4}$ of N.W. $\frac{1}{4}$, sec 31-135-31 shows us about where the corner is in the center of a graded wagon road which runs north and south, and another graded wagon road running East from this corner to secs. 30-31-25 & 36 above mentioned, and from a point where the center of the two roads intersect we run a line in each of the sections mentioned in the hopes of finding some of the old bearing trees but are unable to find any trace of them.

Considering the intersection of these roads the true corner we run north along the graded road 200 feet to the center of a wet swamp and drive a small stake just East of the N. end of an open ditch which is full of water and which extends South westerly to a point on the section line 110. ft west of the corner to sections 30-31-25 & 36 above referred to.

Beginning at a point on the north boundary of sec 36 T. 135 R 32 at the south end of an open ditch about 150. ft west of the N.E. cor of said sec 36, we drive a stake which we mark "Sta 0" from which we run a line in sec 36 for the extension of the ditch, South westerly as follows @ $8^{\circ} 46'$ var.

From "Sta 0" run $S 18^{\circ} 20' W$ at 100 ft set stake for "Sta 1" at 160 ft set stake marked "Sta 1+60" thence $S 5^{\circ} 40' W$ at 200 ft set "Sta 2" at 300 ft set "Sta 3" at 348 set stake marked "Sta 3+48" thence $S 5^{\circ} 28' W$ at 400 ft set "Sta 4" at 500 ft set "Sta 5" at 560 ft set stake marked "Sta 5+60" thence $S 30^{\circ} 12' W$ at 600 ft set "Sta 6" at 700 ft set "Sta 7" at 800 ft set "Sta 8" at 900 set "Sta 9".

Going back over the line we set grade stakes so as to give the ditch a drop of three tenths of one percent grade, beginning at the bottom of the ditch at Sta "0" one foot below the water level and assuming the bottom of the ditch at this point at "100" and dropping to "97.30" at station 9. Sta "0" El. 101 cut 1, Grd = 100; Sta "1" El. 101.93, cut 2.23 Grd = 99.70; Sta "1+60" El. 101.55 cut 2.03, Grd = 99.52; Sta "2" El. 103.52 cut 4.12, Grd = 99.40; Sta "3" El. 101.70, cut 2.60, Grade = 99.10; Sta "3+48" elevation 102.18 cut 3.22 grade = 98.96; elevation of bench mark, being top peak of big stone a rod east of + 48, is 105.06; Sta "4" elevation 102.12 cut 3.32 grade = 98.80; Sta 5 elevation 101.48 cut 2.98 grade 98.50 Sta 5+60 elevation 101.61 cut 3.29 grade 98.32; Sta. 6 ele. 100.78 cut 2.58, grade = 98.20 Sta 7, el 100.44 cut 2.54 grade = 97.90; Sta 7+50 El. 99.66 cut 1.91 grade = 97.75; sta 8 elevation 98.61 cut 1.01 grade = 97.60; Sta. 9 elevation 95.46 fill 1.84 grade = 97.30. The water surface of the pond at Sta "0" is an assumed elevation of 101 feet.

Recorded March 28th 1913.

John W. Curo, Co. Surveyor Cass Co. Minn

SURVEY RECORD No. 233

Field notes of the survey of a part of Township 136 N; Range 32 W, 5th Principal Meridian, through Sections 3, 4, 5, 6, 7, 8, 9, and 10 as surveyed by Harry S. Todd, Deputy County Surveyor of Cass County Minnesota

December 31st 1910 Harry S Todd transitman: A. Witherell, L. Boyer, A.A. Mowett, axmen: Carl Witherell helping Todd to chain: We are working for Poplar Township and are using a 300 foot Chicago Steel tape and a K & E engineers transit. We go to the corner to secs 3, 4, 9 and 10 T 136 R 32 where Govt notes call for a stake and the following bearing lines: yellow pine 22, N 58° E 28 links; yellow pine 8, S 27° 30' W, 20 links; yellow pine 6 N 41° W 140 links; Black pine 10 S 35° E 24 links. We find a stake set by some one for the section corner and after taking measurements in all four surrounding sections and checking up on the stake, we find it to be the true corner to secs ³⁻⁴⁻⁹⁻¹⁰ 3, 4, 9 & 10 T 136 R 32 from which we run a transit line

West @ 9° Variation: at 269.20 tack in log; at 855 tack in log; at 1320 temporary 1/16 corner, enter field; at 1436.80 tack in log; at 1734. tack in log; at 2375.30 tack in log; at 2640 temporary 1/4 corner: we look for bearing lines but all are gone and we continue West: at 3960 temporary 1/16 post: at 4776.50 tack in log; at 5060.30 tack in log; at 5280 set temporary corner to Secs 4, 5, 8 and 9 T 136 R 32 where we search for old Govt bearing lines but as all are gone we continue our line West between Secs 5 x 8: at 6032.90 tack in log; at 6216 tack in log; at 6600. temporary 1/16 cor: at 6885.30 set hub; at 7920. temp 1/4 cor between Secs 5 x 8 - no bearing lines or stake and we continue West: at 8248.50 tack in log; at 9001.50 tack in log;

Jan 3rd 1911. continue West: at 9764.80 set hub; at 10411.50 set hub; at 10621.50 set hub and look for corner to Sections 5, 6, 7 and 8 T 136 R 32: all of the old bearings appear to be gone, and we continue our transit line West between Sections 6 and 7: at ~~11553.50~~ set a hub stake and quit surveying. Surveyed Dec 31st 1910 to Jan 3rd 1911. Recorded March 28th 1913. John W. Ellis Co Surveyors Cass Co Minn

Sec	Carried To	Page of Book
3	"	" 393 "
4	"	" "
5	"	" "
6	"	" "
7	"	" "
8	"	" "
9	"	" "
10	"	" "

Constructed Highway

- PLAT and NOTES -
 T. 134. R. 31. Sec 31,
 T. 134. R. 32. Secs 34, 35, 15, 16, 21, 22,
 27, 28, 33, 34, 35, 36.

Scale: 1" = 3300 feet.

SURVEY RECORD No 234.

SURVEY RECORD No 234.

Recorded March 28th 1913
 John W. Curo
 County Surveyor Cass County Minn.

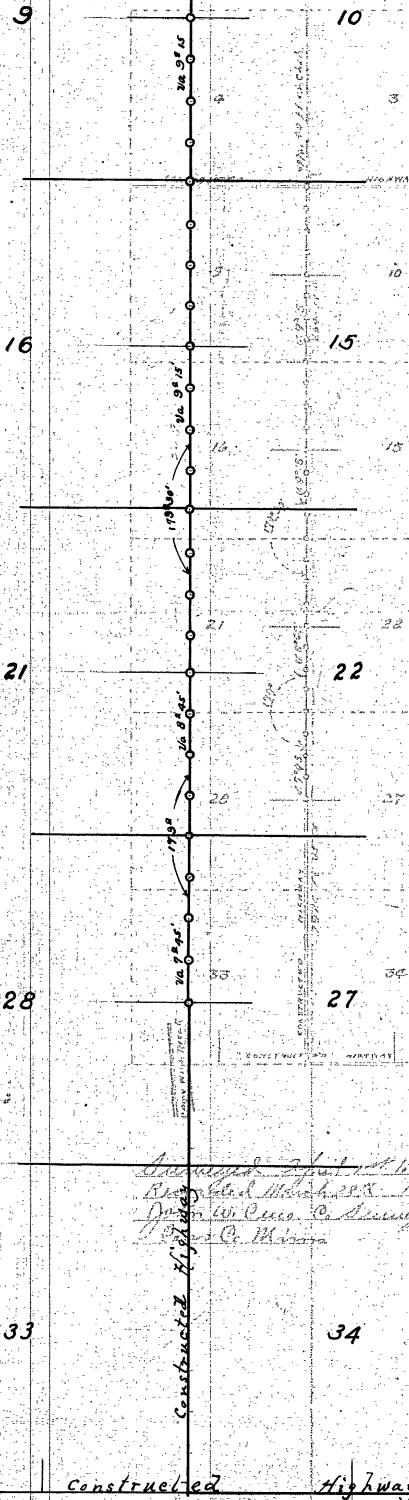
I hereby certify that the attached is a true plat of the location
 of a road in Township 134 of Range 32 surveyed by me in
 April 1912 for and under the direction of the Trust Board
 of Becker Township
 W. H. POORE,
 Surveyor.

Field notes of the survey and examination of Secs 34, 35, 15, 16, 21, 22,
 27, 28, 33, 34, 35, 36 of T. 134, R. 32, and Sec 31, T. 134, R. 31 as made by John
 W. Curo, County Surveyor of Cass County Minnesota having been
 previously surveyed by Leifady County Surveyor Poore
 and the plat thereunto annexed is a true plat of said
 survey. Recorded March 28th 1913 John W. Curo
 County Surveyor Cass County Minn.

I hereby certify that the attached is a true plat
 of the location of a road in Twp 134 of Range 32
 surveyed by me in April 1912 for and under the
 direction of the Trust Board of Becker Township.

W. H. POORE
 Surveyor

Approved April 16th 1912
 Trust Board March 28th 1913
 John W. Curo, C. Surveyor
 W. H. Poore, C. Minn.



Constructed Highway

Range 32
Highway 31

NOTES	
Sec. Cont'd From	Page of This Book
5	402
6	402
7	402

- NOTES -
 Secs 5-6-7-8-17-18
 T. 138N. R. 31W. 5PM.

Field notes of a survey in sections 5, 6, 7, 8, 17 & 18 of Township 138 N, Range 31 W, 5th Principal Meridian, as made by Melville A. Kemp, assistant County Surveyor, examined, approved and recorded by John W. Curo, County Surveyor of Cass County Minn.

Oct. 22nd. 1912. M.A. Kemp transitman; Hellier & Brightly transit and 300 foot steel tape. Plumb-bob used in chaining. Kemp and Tom Loon chaining.

At the N.W. cor of sec. 7, being the S.W. cor. sec 6-138-31, we find an 8x8x36 inch cement post, set by Curo in June 1912 for the true corner from which we run S. 89° 47' E on 10° 15' variation. Muns Johnson, John Howe and James Mather atmen. At 2003.20 hub and tack; @ 3116.80 hub & tack; at 3780.20 hub & tack: Quit for night over night with Hans Larsen.

Oct. 23rd, 1912. Same crew. Kemp transitman & chainman, John Howe, chainman, Tom Loon, Jas Mather & Muns Johnson atmen. Continue East, @ 4899.00 set. hub & tack: at 4899. the corner to sec 5, 6, 7, 8, T. 138-R. 31. sets South 48.20 feet, at which point U.S. notes call for a post and the following bearing trees. White Birch S. 85° E. 13 links (= 8.58 ft.)

Birch S. 12° E 28 links (= 18.48 ft.) Norway Pine 28 N 71° 30' W 16 links (= 10.56 feet.) The Norway still stands cut off below the "B.T." mark but part of the blaze shows and Hans Larsen says the marks were plainly visible (5) five years ago when the tree was standing. From this old Norway bearing tree we set a 5x5x30 inch oak stake for the true corner to sec 5, 6, 7, & 8 T. 138-R. 31, and at 8° 15' variation East, we mark new bearings as follows.

Red Oak 15; N 55° 03' E 35.30 feet. (in sec 5.) Birch stump 18 N 39° 22' W 61.00 ft. (in sec. 6.) Birch 2 S. 80° 35' W 50.40 ft. (in sec. 7.) Pine stump S 21° 26' E 62.90 ft. (in sec 8.)

Setting over the true corner to sec 5, 6, 7, & 8, -138-31 just set we run South on 8° 15' variation: @ 924.20 set. hub & tack on high hill: @ 1200 cross road N.E. & S.W. @ 1760. enter meadow: @ 2625. lv. same: @ 2767.10 hub and tack "A" and set hub "B" on line in neck of land between two lakes: turn 90° angle from "A" and set hub "C" 70 ft. Set over "C" back sight on "A" and turn 84° 11' to "B" distance "A" to "B" is then 687.15 feet. Chaining of "B" is 2767.10 added to 687.15 equals 3454.25 at 2825 enter N. edge of lake and at 3400 lv. South edge of lake. Setting over hub "B" we set hub "D" on line South across second lake, turn 90° angle to right 100 feet and set hub "E" set over hub "E" back sight on hub "B" and turn 80° 59' to hub "D" distance across second lake is 630.19 added to 3454.25 equals 4084.44 feet to hub "D": @ 3570. enter N. edge of second lake at 4050 lv. south edge of lake. @ 4084.44 hub.

Oct. 24th, 1912. Kemp, Mather, Howe & Muns Johnson, continue South. @ 5298.30 corner to sec 7, 8, 17, 18. -138-31 bears West 33.80 feet. at this point U.S. notes call for stake + W. Birch S. 132° 15' E. 10 links (= 6.60 ft.)

Aspen S. 70° E. 43 links (= 28.38 ft.) Red Oak 6 S 73° W 2 links (= 1.32 ft.) We find the stake and rotted stumps of the S.W. & S.E. trees, from which we set a large boulder marked with a cross (+) on the top for true corner, and mark the following bearings. Pine Stump 12 S 57° 30' W 54.25 ft. (in sec. 18) Pine Stump 12 S. 60° E 95.20 ft. (in sec. 17) Correcting back one mile between sec 7 & 8 -138-31 - 5280. Got a chain equals 5298.30 mag.

chain which is 18.30 ft. long. @ 2649.15 set $\frac{1}{4}$ corner West 16.90 ft. where we place a large boulder marked with a cross (+) on top for true $\frac{1}{4}$ corner between sec 7 & 8-138-31 and mark the following bearing trees: Birch S $\frac{1}{4}$ N 67° W 81.15 feet in sec 7: Jack Pine 6 S $43^{\circ}28'$ W 42.00 ft. in sec 7: Hub 924.20 goes W 5.90 ft.

Correcting the mile of line between sec 6 & 7-138-31- 5082. ft. *Good* chain equals 48.99 feet my chain and is 183 ft. short. At hub 3626.53 we run South 35.68 ft. and set stake for true line. At 2354.06 E. we run South 23.16 where we place a 2x2x24 inch stake for the true $\frac{1}{4}$ corner between sections 6 and 7-138-31 and mark the following bearings.

Jack Pine 4 N 26° W 38.10 ft. in sec 6.
Red Oak 4 S $40^{\circ}20'$ W 97.25 ft. in sec 7. @ 1081.59 set hub South 10.64 feet to true line. Melville A. Kemp transitman

Survey made Oct. 22, 23rd and 24th, 1912.

Recorded April 1st 1913

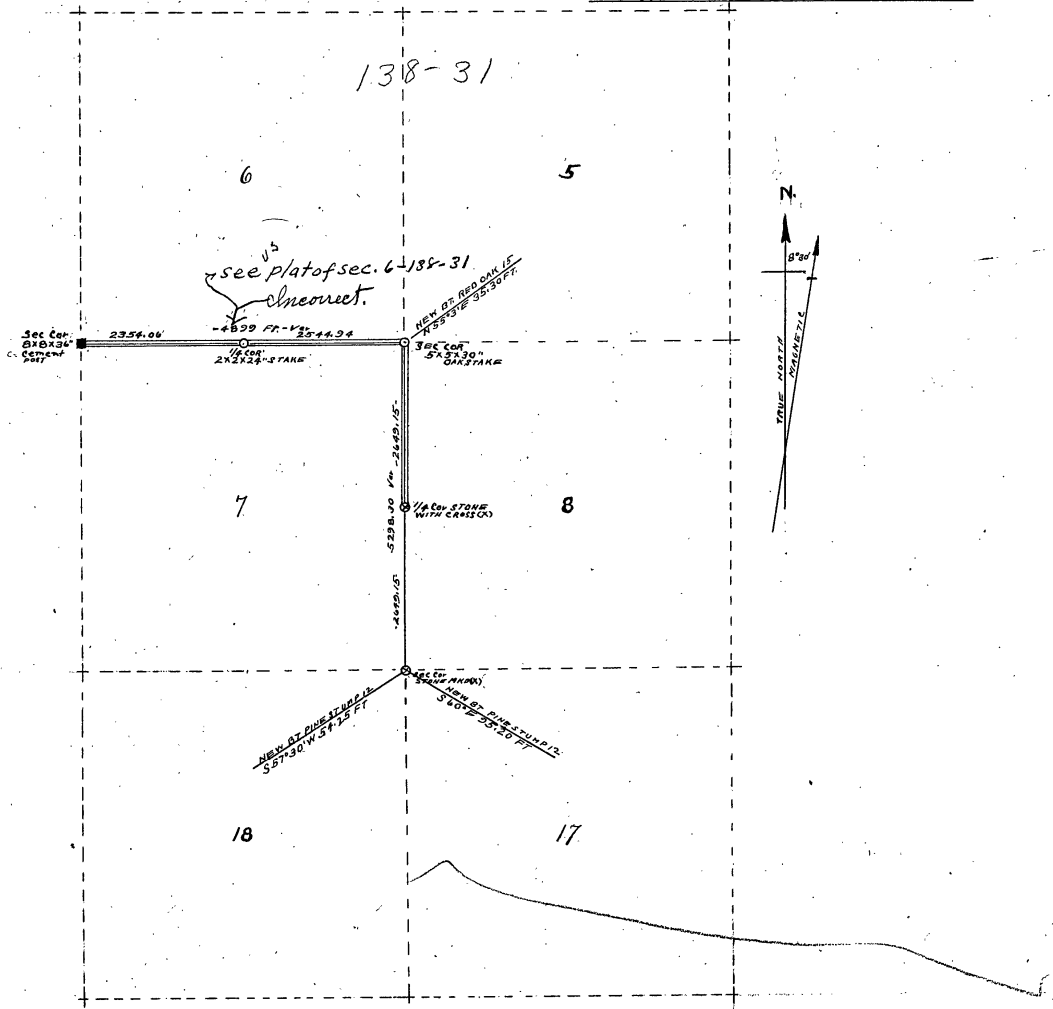
John W. Cuns. Co. Surveyor Cass Co. Minn

- PLAT -	
Sec Cont'd From Page of This Book	
5	400
6	403
7	403

PLAT:
Secs 5, 6, 7, 8, 17, 18
T138N. R31W. 54 PM.

Scale 3" = 1 Mile

SURVEY RECORD No 235.



see plat of sec. 6-18-31
 connect.

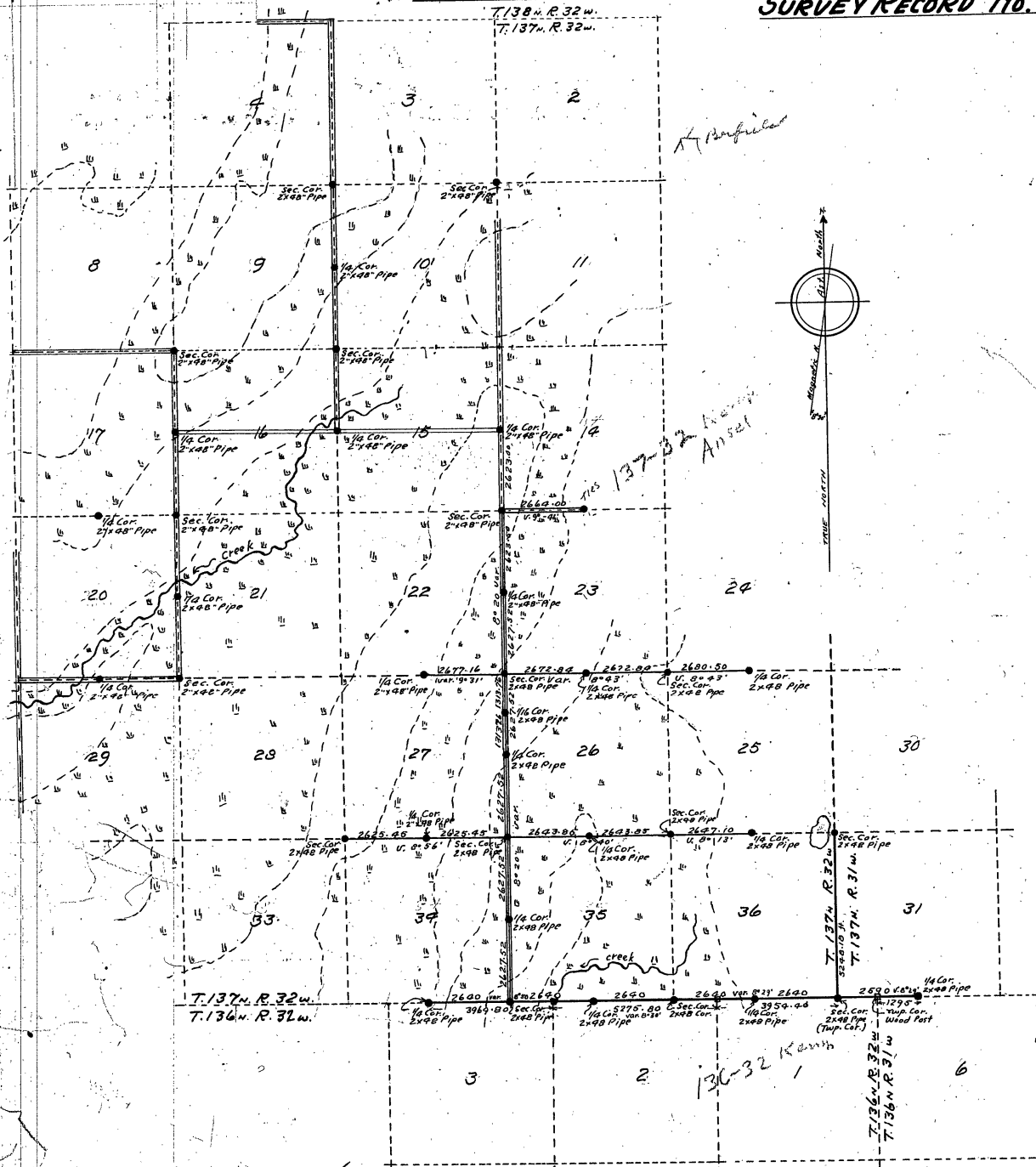
Surveyed October 22nd 1912 x 29th 1912
 Recorded April 1st 1913
 John W. Cunniff, Recorder

PLAT 136-32	
Sec. 3 Best From Page 407 This Book	
587	
PLAT 137-32	
Sec. 3 Best From Page 407 This Book	
407	
8	204
17	200
20	179
29	172

PLAT
 TWP. 136N. R. 31W. SEC. 6.
 " 137N. R. 31W. " 30, 31.
 " 136N. R. 32W. " 1, 2, 3.
 " 137N. R. 32W. " 2, 3, 4, 8, 9, 10, 11, 14, 15, 16, 17,
 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 33, 34, 35, 36.

SCALE: 1 1/2 IN. = 1 MILE

SURVEY RECORD No. 236



Survey for road
 Graded road
 Surveyed Line

Survey begun June 18th 1918
 Finished July 14th 1918
 Recorded July 28th 1918
 John W. Cress, Co. Surveyors Cress Co.
 Minnesota

NOTES 136-32		
Sec	Prot From Page	This Book
3	"	582
NOTES 137-32		
Sec	Prot From Page	This Book
3	"	706
4	"	706
8	"	707
17	"	201
20	"	197
24	"	193

TWP 136ⁿ R. 31^w Sec 6.
 " 137ⁿ " 31^w " 30-31
 " 136ⁿ " 32^w " 1-2-3
 " 137ⁿ " 32^w " 2,3,4,8,9,10,11,14,15,16,17,
 20,21,22,23,24,25,26,27,28,29,33,34,35,36.

Field notes of the survey and establishment of new section corners, new bearing trees and permanent iron section corners in the following sections: Section 6, Twp. 136ⁿ, Range 31^w, Sections 30 and 31, Township 137ⁿ, R. 31^w. Sections 1, 2 and 3, Township 136ⁿ, " " 32^w, and, " " 2-3-4, 5, 8, 9, 10, 11, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 33, 34, 35 and 36, Township 137ⁿ, Range 32^w, 5th P.M. all in Cass Co. Minn.

Surveyed and established by John W. Curo, County Surveyor of Cass County Minnesota, assisted by Melville A. Kempf, Civil Engineer and assistant County Surveyor of Cass Co. Minn.

Wednesday, June 18th 1913. John W. Curo transitman & chairman, New Heller & Brightly Engineers transit in perfect adjustment. 100 foot "Monarch" correct standard steel tape. Andrew Howde (Civil Engineer) assistant chairman. Burt Birtson, S. R. Lammie, Ole Rand & Thomas Gallagher, apmen.

We go to the 1/4 corner between sections 14 and 23, Twp. 137ⁿ, R. 32^w, where U.S. notes call for a post and the following bearing trees. Aspen 7, N 17° E, 57 links (= 37.62 ft.) distant. Aspen 8 S. 65° W 107 links (= 70.62 ft.) distant. We find the N.E. bearing tree standing green and plainly marked from which we set the true 1/4 corner, being a galvanized iron pipe, 2 1/2 inches thro by 4 feet long, having an iron cap on top and an anchor rod thro the bottom, set 3 feet into the ground with a mound of dirt thrown 1 foot high to the top of the iron which is the true 1/4 corner between secs. 14 and 23, with new bearings as follows: White Oak S. 42° 34' W 65.73 feet to tack head drove in spot at base of tree. A tack drove in old N.E. bearing tree, bears N 17° E 37.62 feet distant, @ 9° 40' variation.

Runa Westerly at about 9° variation; at about 700 feet enter Alder swamp; at 1000 feet enter open solid tamarac swamp and set hub and tack; at about 2000 ft. into swp.; at 2664 feet rough chain the corner to sections 15, 14, 22, & 23 bears south 31, 50 feet.

Connecting back: at hub 1000 W, we chain south 11.82 feet and set hub and tall stake on true line and from this point set a line of tall stakes west across the open swamp to mark the true section line between 14 & 23 where there is to be built a new wagon road. We do not stake the corrected line clear back east to the 1/4 corner, as the road will probably only be built across the swamp. Taking the bearing of the corrected line, we find it runs on about 9° 40' variation E.

At the corner to sections 14, 15, 22 & 23, Twp. 137, R. 32, we find a section corner stake previously set by John Asher, former Deputy County Surveyor of Cass Co. Minn and who set the stake for the true section corner from old Government bearing trees on or about June 10th 1900 and on June 22nd 1905 Mr. N. W. Hicks who was then Deputy Co. Surveyor of Cass Co. Minn, examined this stake and finding it correct from the old U.S. bearing trees, drove it more solidly into the ground and marked new bearings as follows:

14-14-23

137-32
1/4-14-23

137-32
14-15-22-23
New B.T.S.
P 4594

137-32
34-35

SURVEY RECORD No. 236

bearing, being 1.40 feet north and 1 foot east of the true corner to sec. 31 & 35, on south side of Twp. 137, Rg. 32. This 10575 is rough chain and no good and I will chain it again.

Mr. A. A. Mowett takes us to the North corner of sections 2 & 3 of Twp. 136, Rg. 32, where U.S. notes call for a post and the following bearing trees: Black Pine 6 S. 30° E 9 lks. (= 5.94 feet) distant. Aspen 5, S. 26° W 36 lks. distant. We find the tall stump of the S.E. tree still standing, which Mrs. Mowett & Mr. Farnam remember well and from which former County Surveyor B. B. Bartlett, set a stake, and N. W. Hicks set a stone. At 8° 50' variation we set a small hub and tack for the true corner to sections 2 & 3, T. 136, Rg. 32 from face of figures on the old S.E. bearing tree stump and mark new bearings as follows:

Jack Pine 14, S 35° 26' W 73.03 ft. distant. Spruce 10, N 29° 27' W 85.54 feet distant to head of Sd. nail drove in flat spot at base of each tree: A fence corner sets 16.20 feet east and 0.40 of a foot north: Old Jack Pine bearing tree bears S 30° E 5.94 feet distant to face of spot, at 8° 50' variation E.

Run west on 8° 50' var E at 48.80 feet tack in green 8 inch jack pine stump which was one of the old E & W line trees which we had to cut in order to run the line: thence thro small jack pine, sandy soil: at 863.70 intersect wagon road which bears N.E. & S.E. at 900 ft set pin: at 922 left center of cross road - one runs N.E. & S.W., and the other runs S.E. & N.W. west: at 1618 feet an old 1/2 stake set by B. B. Bartlett years ago, and which may have been moved, bears North 11.75 feet: at 1328.80 set hub & tack 1.10 feet south of cross in stone set by Hicks: at 1600 hub & tack: at 2300 set stake, enter open solid swamp: at 2650 set stake in swamp: at 3000 stake: at 3040 lv. swamp: enter old field: at 3300 stake: at 3600 hub: at 3700 enter open solid swamp: at 3969.80, the true 1/4 corner on south side of section 34, Twp. 137, Rg. 32, bears south 0.85 of a foot.

At the 1/4 corner on south side of section 34 T. 137, Rg. 32, U.S. notes call for a post and the following bearing trees: Tamarac 3, N 34° E. 89 lks. (= 58.74 feet) distant. Tamarac 3, N 56° W 19 lks. We all find the stump of the N.E. Tamarac plainly marked, and a part of the body of the tree plainly marked but burned, and from the face of the stump we set the true 1/4 corner by first driving a 2 inch dry tamarac pole, 7 feet long, down into the swamp, over which we force a galvanized iron pipe 2 1/2 inches thick by 4 feet long capped on top, then drive the whole works down into the tamarac swamp until the top of the iron sticks 16 inches above the level of the swamp: as there are no trees near for bearings, we drive two green tamarac posts as follows: Tamarac post 4 N 45° 42' E 44.48 ft distant. Tamarac post 4 N 45° 06' W 44.16 feet distant to tack heads in flat side of posts. Old B.T. stump bears N 34° E 58.74 feet distant. Quit for night.

Saturday June 21st 1913. Curo, Howde, Gallagher, S. R. Farnum, Walter Wilson Farnum, Rand & Cleagard work: At a point 3969.80 west of the true North corner to sec. 2 & 3, T. 136, R. 32, the iron 1/4 corner on the south side of section 34 - 137 - 32 bears south .85 of a foot. Correcting east, hub 1328.80 goes south .28 of a foot where we set a hub & tack, over which we place the transit, which we back sight west on a red flag set at the true iron 1/4 corner on the south side of section 34, then transit the telescope and run a row of hubs

SURVEY RECORD No. 236

East running thro the true North corner of sections 2 & 3 of Twp. 136-32 following the true Standard parallel line.

With transit at the true North corner of sections 2 & 3, 136-32 back sight telescope on red flag set at corrected hub no. 132.5.80. and run East on $8^{\circ}50'$ variation. Hoods transitman: Walter Farnum &

Puro chaining: 100 foot Chicago steel tape and plumb-bob, double center tacked hubs: perfect line: at 400 enter creek bottom, run South: at 575.8' center of 5 foot creek, 3 ft. deep, rapid current, gravel bottom, run south: at 550 lv creek bottom: at 700 enter swamp: at 825 lv same: at 1000 enter swamp: at 1175 lv same: at 1310.20 ft. set a hub and tack. 5280 feet East of the iron $\frac{1}{4}$ corner on S. side of sec. 34 for the temporary $\frac{1}{4}$ corner on the south side of section 35, T. 137-32 where U.S. notes call for: Balm Giliad N. $75^{\circ}E$ 10 lks. Balm Giliad 12: N $14^{\circ}W$ 21 lks. All are gone and we continue East: 2129.40 tack in log: at 3600 set hub: at 3950.20 added to 3969.80 equals 7920 ft East of iron $\frac{1}{4}$ cor. on South side of sec. 34, set hub for temporary corner to sec 35 & 36, on S. side of 137-32 where U.S. notes call for: Lind 10. N $64^{\circ}E$ 11 links:

Yellow Birch 12. N $35^{\circ}W$ 28 links: All are gone and we continue East.

At 4500 enter down tamarac: at 4786.10 set hub in swamp: at 4900 pin enter green tamarac: at 5600 set stake: at 5620.20 set hub in swamp: Quit for night.

Monday June 23rd 1913. Puro, Hoods, Gallagher, Chagardo, Walter Farnum & Julius Skaar worked. At a point 5275.80 feet East of the N.W. corner of sec. 2, T. 136-32 the N.E. corner of the same section sets south 32.60 feet. This is 9245.60 feet East of the iron $\frac{1}{4}$ corner on the South side of section 34. At the corner to sections 1 & 2, on the North side of Town 136, Rg. 32 U.S. notes call for a post and the following bearing trees:

Tamarac 10 S $23^{\circ}E$ 72 links (= 4752 ft. distant.) Tamarac 10 S $23^{\circ}W$ 38 links (= 25.08 ft.) distant, and is the U.S. closing corner on the true Standard Parallel.

As this corner lays 32.60 ft. South of our Transit line just run, it shows that there will be a small crook in the Standard Parallel line at the N.W. corner of section 2, but as the old line of blazes are still in evidence at both the N.W. & N.E. corner of section 2, 136-32, I am sure this is where the Standard Parallel line was originally run so will run any correct line through both of these closing corners and consider it the true Standard Parallel line, as the old trees show the line plainly blazed East and West. At the corner to sec. 1 & 2, on North side of Twp. 136, Rg. 32, we find the tall stump of both old trees standing plainly marked from which we set the point for the true closing corner by flat chain from the face of the old "B.T." marks after which the old stumps stand perfect for courses: On account of a big Tamarac root we cannot easily set a stake for the true corner so I drive a $\frac{3}{8}$ inch iron measuring pin, 12 inches long, solidly into the tamarac root to mark the point for the true corner and mark new bearings as follows: Tamarac 2 S $34^{\circ}18'E$ 58.86 feet: Tamarac 3 S $30^{\circ}46'W$ 60.34 feet to tack heads drove in a flat spot at the base of each tree, at $9^{\circ}15'$ variation: With transit at hub 5620.20 and chaining from stake 5600 we continue transit line East: at 6200 set stake

and leave green tamarac swamp. at 6590.20 set hub for temporary $\frac{1}{4}$ corner on South side of section 36, where we set a stake marked "10560 East." U.S. notes call for: White Birch $9^{\circ} N 62^{\circ} E 10$ links; White Birch $8^{\circ} N 51^{\circ} W 36$ links; All are gone and we continue east. At 7645 center of wagon road N.W. & S.E.; at 8000 set hub, enter rolling land: at 8390 set hub on little hill: at 8450 foot of hill, thence again over level brush land: at 8635 good wagon road N.E. & S.W. at 9230.20 set hub: 13200 feet East for temporary S.E. corner of Township 137 Range 32, being the S.E. corner of Twp 137, Range 31 where U.S. notes call for a stake and the following bearing trees. Aspen $15^{\circ} N 56^{\circ} 15' E 19$ lks. (= 12.54 feet) distant White Birch $11^{\circ} N 20^{\circ} W 69$ lks. (= 45.54 ft) distant. I set stake with nail in top 8 years ago at this corner from both old U.S. trees for true Twp corner: We do not stop to find them and continue east.

At 9575 enter N. end of little slough lake 2 ft. of water: at 9690 lv. same: at 9900 set pin in N. end of bog in Choppy hills: at 10250.50 ft. bog N.W. at 10376.85 set hub on "hog back" at 10529.50 a big old stake sets south 64.70 feet this stake may have been moved, it is marked "road" and may have been set for the North corner of Townships 136-31 & 32 where U.S. notes call for: White Birch $8^{\circ} S 57^{\circ} 15' E 42$ links; Aspen $8^{\circ} S 26^{\circ} 30' W 43$ links; We set the transit over the big stake but our measurements fail to locate any old bearing trees or roots so we decide the old stake is not the true closing Twp. corner and quit this line for a few days.

Tuesday June 24th 1913. Curo, Hoode, Gallagher, S. R. Farnum & Walter Farnum, Ole Rand & Burt Skaar worked. We cut out about a mile of line East from the temporary corner to sections 22, 23, 26 & 27-137-32, and adjust the transit.

Wednesday June 25th 1913. Curo, Hoode, Gallagher, S. R. Farnum, Rand, Walter Farnum Burt Skaar & Melville A. Kemp work. Curo and Walter Farnum begin at the temporary corner to sections 22, 23, 26 & 27, 137-32, at a red flag set 2627.10 feet south of the iron $\frac{1}{4}$ corner between sec. 22 & 23, and continue chaining carefully South. At 1320 feet set temporary No 6 stake near S. R. Farnum's S.E. corner; at 2640 set stake for temporary $\frac{1}{4}$ corner between sec. 26 & 27; Mark the stake "2640+2627.10=5267.10S" at 2977 bridge site. At 3790 N. end of slab corduroy, enter swamp: at 4250 enter poplar island. at 4400 lv. same: at 6417 N. end of tamarac pole corduroy: at 6600 set stake: at 6785 center of 12 ft. old bidge in big swamp: at 7920 set stake marked "2627.10+7920=10547.10S." temporary $\frac{1}{4}$ between sec. 34 & 35: at 8900 old bridge site in swamp. We will finish this chaining by going about half a mile south thro the town line, and chain north: We walk South to the town line and begining at a hub & tack one (1) foot East of the true South corner of sections 34 & 35-137-32, we chain carefully North, setting Station stakes every 100 feet and numbering each stake "Sta 1" Sta 2" Sta 3" etc for the purpose of taking the levels later in the day and at 1300 feet set "Sta 13" and enter south edge of big open swamp. Continue North still setting station staker every 100 feet and at 2590.50 intersect our stake No 10547.10 coming from the north, making the total distance from the iron $\frac{1}{4}$ corner between sec. 22 & 23 south to the town line, 13137.60 feet, we continue setting a line of station stakes North as far as "Sta 39" At a point 7882.40 feet South of the iron $\frac{1}{4}$ corner bet. sec. 22 & 23, we set a red flag for the temporary corner to sections 26, 27, 34 & 35 then by working the transit on line we set this flag in line with two other red flags, one a mile N. and the other a mile South the north flag sets at the temporary corner to sec.

SURVEY RECORD No. 236

22, 23, 26 & 27 and the South flag sets one (1) foot East of the S. corner to secs 34 & 35 and from the flag set for the temporary corner to sections 26, 27, 34 & 35, T. 137 R. 32 we run West with Andrew Hoodie transitman, using a Keuffel & Esser transit. Ole Rand & Burt Skaar apmen and chainmen, run the line nearly a mile West, while Kemp, Curo and the rest of the crew get the levels of the swamp.

Thursday June 26th 1913. M. A. Kemp transitman Andrew Hoodie and Kemp chaining, Walter Farnum & Lewis Farnum apmen, begin at the red flag at temporary corner to sections 26, 27, 34 & 35, 137-32 and run Hoodie's line West. at about 600 cross wagon road & W swamp. @ 1584.50 set hub: @ 1970.30 hub: @ 2640 stake: 3952.10 hub: 4100 lv. swamp: at 5122.80 at 5257.90 the corner to sections 27, 28, 33 & 34 sets South 66.27 feet, at which point U.S. notes call for a post and: Pine 7 S 80° E 40 links (= 26.40 ft.) distant. Maple 8 S 72° W 45 links (= 28.70 ft.) distant. Elm 10 N 20° W 55 links (= 36.30 ft.) distant.

Elm 6 N 29° E 85 links (= 56.10 ft.) distant. We find the stump of the S.E. tree from which we set a stake for the true corner to sections 27, 28, 33 & 34 @ 8° 40' variation E. Going back to the red flag at temporary corner to sections 26, 27, 34 & 35 back sight on line West and run East, thro wet open swamp: Keuffel & Esser transit, 300 ft. Chicago steel tape

John W. Curo works in another crew with Henry Meyer & Burt Burtson as apmen & chainmen, Heller & Brightly transit, 100 foot "Monarch" steel tape. Curo transitman, setting iron monuments for permanent sectional corners. Curo, Meyer & Burtson go to the 1/4 corner between secs. 15 & 16, T. 137-32 where we find an old 1/4 post set in the center of the E & W graded wagon road, by N. W. Hicker, Dep. Co. Surveyor of Cass Co. Curo checks up on the stake & finds it correct, on account of a rut outline, 2 feet wide, running North and drives the stake more solidly into the ground, then drives with Meyer's team to the corner of secs. 16, 17, 20 & 21 - T. 137 - R. 32 where U.S. notes call for:

Aspen 16 N 33° E 60 links: Aspen 7 N 15° W 103 links: Aspen 148 52° W 98 links:

" 14 S 27° E 45 " : We dig up the old stake previously established by Deputy County Surveyor John Usher, and Burt Burtson and put in its place a galvanized iron pipe 2 1/2 inches thick by 4 feet long capped on top and anchor rod thro bottom, set its full length in the center of N. & S. graded wagon road for the true corner to sections 16, 17, 20 & 21, T. 137 - R. 32, and mark new bearings as follows: Cross (+) in stone bears N 8° 20' W 35.55 feet distant. Cross (+) in stone bears S 68° 45' E 37.20 feet distant: @ 8° 20' variation.

Stump of old NW bearing tree still stands, with iron marks showing.

We drive to 1/4 corner between secs 16 & 17 where U.S. notes call for stake and:

Spruce 11 S 72° 30' E 9 links distant: Tamarac 6 N 60° W 24 links distant.

We find the stake set by John Burtson, for the true 1/4 corner, which we pull up and put in its place a galvanized iron pipe 2 1/2 inches thick by 4 feet long, capped on top and solidly driven its full length in the west edge of N. & S. road grade in swamp, for the true 1/4 corner between secs. 16 & 17 - T. 137 - R. 32 with new bearings as follows: Cross (+) in big stone bears N 84° 33' E 144.17 feet distant: cross (+) in big stone bears S 13° 55' E 101.43 feet @ 8° var. the root of the old S.E. U.S. bearing tree is still here and a graded wagon road runs 2 miles East of this point, also N. & S. We drive to the corner of sections 8-9-16 & 17 - T. 137 - R. 32 where U.S. notes call for a stake and: Elm 4 N 40° 30' E 34 links:

SURVEY RECORD No. 236

Aspen 7 S 61° E 58 links: Elm 7 S 58° 30' W 50 links: Elm 6 N 60° W 42 links. We find the stake set by John Usher & Burt Burton from the old U.S. bearing trees for the true corner. We pull up the stake and put in its place a galvanized iron pipe 2 1/2 inches thick by 4 feet long, capped on top and driven its full length in the graded wagon road which extends west and south and mark new bearings as follows: Cross (+) in big stone bears S 31° 28' E. 65.92 ft. Cross (+) in big stone bears N 68° 20' E. 64.35 feet distant: P.M. We go to the 1/4 corner between secs. 17 & 20, T. 137 R. 32 where U.S. notes call for a stake and:

Tamarac 7 N 20° E. 11 links (= 7.26 feet) Tamarac 6 S 11° 30' E 15 links (= 9.90 feet). We find the stumps of both old trees from which we set the true 1/4 corner where we drive a 6 foot dry tamarac pole for a piling, solidly into the swamp over which we force a galvanized iron pipe 2 1/2 thick by 4 feet long, capped on top, and the whole thing drove so solid it takes several heavy blows of an ax to move it and leaving it sticking 18 inches above the general swamp level: A 5 inch green spruce bears N 25° 17' E 31.20 feet. Dead Jam. marked "C.P. No. 5, road B.T." bears N 45° 32' W 7.12 feet to nail heads @ 8° variation. This is the true 1/4 corner between secs. 17 & 20, T. 137 R. 32. Going to the 1/4 corner between

secs. 20 & 21, T. 137 R. 32, we find a stake set for the 1/4 corner, by Burt Burton and John Usher Deputy Co. Surveyors. We pull up the stake and put in its place a 2 1/2 x 4 8 inches galvanized iron pipe capped on top and drove with a heavy sledge its full length into the center of N. & S. graded wagon road and mark new bearings as follows: N. Pine 2 N 30° 24' W 35.93 ft. Jack Pine 5 S 82° 20' E 34.48 ft. to nail heads in spot.

Going to the corner to secs. 20 & 21 - 28 & 29 - T. 137 - R. 32, we find the old U.S. stake also a stake set by Burt Burton, and Deputy County Surveyor John Usher, both stakes tight together - we pull them up and put in their place a galvanized iron pipe, 2 1/2 x 4 8 inches in size, capped on top and drove over a 2 inch dry tamarac pole, 5 feet long and driven its full length into the center of the graded wagon road which runs north and west. This corner is solidly driven with a heavy sledge. We mark a cross (+) in big stone S 46° 15' W 69.35 feet distant. Cross (+) in big stone bears N 87° 30' W 97.00 ft. distant.

Going to the 1/4 corner between sections 20 & 29, T. 137 R. 32 we find a sharp stone set for the true 1/4 corner from old Gov't bearing trees where U.S. notes call for: Jack Pine 8 S 82° W 52 links: Norway Pine 12 N 2° 30' W 117 links (= 77.22 ft.) This stone was set by flat chain from face of both old bearing trees. We dig up the stone and put in its place a galvanized iron pipe, 4 ft long by 2 1/2 inches thick, capped on top, with iron anchor rod thro' bottom and set its full length in the center of the graded wagon road for the true 1/4 corner between secs. 20 & 29 T. 137 - R. 32 from which a 10. inch Jack Pine tree standing 5 feet west and 3 feet north of the town Hall door bears S 45° 35' E 39.95 feet to nail head in spot at base of tree. Old stump bears N 1° 45' E 72.22 feet distant. We use a H. & B. transit.

Friday June 27th 1913 M. A. Kemp, transitman & chairman. S. R. Farnum, ap & flagman. Ole Rand, chain & apman. Continue east from the red flag at temporary corner to sections 26, 27, 34 & 35, 137-32. At 1323.70 hub: @ 2100 lv. swamp, enter low ridge at 2294 hub: at 2640 ft. set hub for temporary 1/4 corner between secs. 26 & 35 where U.S. notes call for a post:

SURVEY RECORD No. 236

Aspen 12 S. 86° W. 20 links; Spruce 8 N. 49° W. 14 links distant: All are gone as the whole ridge has been burned bare.

Saturday June 28th 1913, same crew, Gallagher assisting: Routine East: at 3200 enter wet swamp: at 3500 center of 5-foot creek 2 ft. deep flows South: at 415950 hub in spruce swamp: at 528770 the corner to secs. 25, 26, 35 & 36 - T. 137 - R. 32, bears North 16.20 feet, at which point U.S. notes call for a post and: Tamarac 10 S. 51° E. 30 links (= 19.80 feet) Tamarac 8 N. 40° E. 12 links (= 7.92 feet) Tamarac 7 N. 59° W. 24 links (= 15.84 feet) Tamarac 6 S. 78° W. 15 links (= 9.90 feet) We find the N.W. tree standing green quite plainly marked when we chop in 3 inches: We find the stumps of the other three plainly marked from which we set the corner by proportionate chainage after which they stand as follows: T. 15' variation: Old B.T. S. 52° E. 18.34 ft. Old B.T. N. 42° E. 7.59 ft. Old B.T. N. 58° W. 14.86 ft. Old B.T. S. 76° W. 9.21 ft. set hub and tack for true corner from which we run East at 8° 30' var. thro spruce & tamar.

Monday June 30th 1913: Kemp, S. Farnum & Rand run East: at 1100 lv. swamp: at 1500 hub at 264710 the 1/4 corner bet. secs. 25 & 36 - 137 - 32 bears South 13.76 feet, at which point U.S. notes call for: White Pine 20 N. 30° W. 42 links (= 27.12 feet) White Pine 24 S. 4° W. 70 links (= 46.20 feet) We find the tall stump of the S.W. tree plainly marked, and the roots of the N.W. tree where it has been grubbed out of a logging road: by courses the distance between the trees is 4.70 ft. short and I set the corner by proportionate chain after which I mark bearings at 7° 30' variation: Stub of old B.T. bears S. 4° W. 43.77 feet. Root of old B.T. bears S. 29° W. 26.31 feet. We set at this point a 2 1/2 by 4 1/2 inch galvanized iron pipe with cap on top for the true 1/4 cor. bet. sections 25 & 36, T. 137 - R. 32: No trees near for bearings:

At the corner to sections 25, 26, 35 & 36 T. 137 - R. 32 we pull up the wood stake and put in its place a galvanized iron pipe 2 1/2 by 4 1/2 inches in size, capped on top and driven over a long spruce pile for the true corner and mark the following bearings & trees: Spruce 4 N. E. 10.00 ft. Spruce 5 S. E. 18.15 feet. Tamarac 6 S. W. 14.05 feet. Old bearing trees N. W. 14.20 feet to tacks driven in flat spots.

Tuesday July 1st 1913. Same crew: chained up line cut by Howde's crew on June 19th west from temp. cor. to secs. 22, 23, 26, & 27 - 137 - 32. At 200 enter open swamp: at 1750 lv. swamp: at 2677.88 ft. the 1/4 corner between secs. 22 and 27, bears South 58.86 feet at which point U.S. notes call for a stake and: Oak 10 S. 50° W. 75 links (= 49.50 ft.) Oak 7 N. 77° E. 40 links (= 26.40 ft.) We find the stump of both trees, badly burned and rotted from which we set a hub & tack for true 1/4 corner between secs. 22 & 27, at 9° var. and mark new bearings: Pine Stump 40 N. 41° 30' W. 54.40 feet. Oak Stub 10 S. 49° 16' W. 64.00 feet. P.M. Beginning at Cur's hub 2700 ft East of temp. corner to secs. 22, 23, 26 & 27 - 137 - 32 and Routine East: at 3100 enter swamp: at 4400 lv. same: at 5280 set stake for temporary corner to secs. 23, 24, 25 & 26 where U.S. notes call for: Aspen 10 N. 10° W. 22.5 links (= 148.50 feet) Aspen 12 S. 19° E. 21 links (= 13.86 ft.) 13. N. 24° E. 34 " (= 22.44 ft.) Norway Pine 10 S. 57° W. — . Did not find them today.

Wednesday July 2nd 1913. Same crew continue East: at 5733.30 set hub:

SURVEY RECORD No. 236

At 7325.20 set hub on hill; at 7650 enter slough; at 7950 lusame; at 8025.46 the 1/4 corner between secs. 24 & 25 sets north 30.04 ft. at which point U.S. notes call for a stake and: White Pine stump 10 N 28° W 19 links (= 12.54 ft.) Maple 8 S 53° E 40 links (= 26.40 ft.)

We find the White pine stump plainly marked and the rotted stump of the Maple from which we set a 2 1/2 by 48 inch galvanized iron pipe, capped on top, set by flat chain from face of old trees for the true 1/4 corner between secs. 24 & 25 - T. 137 - R. 32 from which: Poplar stump 5, bears N 13° 13' E 31.00 feet distant: Pine stub 10 S 3° 48' W 11.45 ft. to tacks in flat spot @ 8° 30' variation. Correcting back at a point 5344.96 feet East of the temporary corner to secs. 22, 23, 26 & 27 - T. 137 - R. 32, the true corner to secs. 23, 24, 25 & 26 sets North 19.78 feet at which point we find the stumps of the old U.S. bearing trees from which we set a 3x3x24 inch oak hub for the true corner and mark new bearings as follows:

Poplar S 5 40° W 42.00 feet. Poplar 4 S 30° E 42.00 feet. At the corner to secs. 26, 27, 34 & 35 - T. 137 - R. 32, where we have a red flag set for the temporary corner, the true corner goes 0.16 of a foot South where we set a small stake for the true corner from which the old N.W. bearing tree which Curd has found since we started and which is down in the wood, bears correct for course and distance, and at a point 26 25.45 feet East of the corner to sections 27, 28, 33 & 34 we run 33.00 ft. South where we place a small stake for the true 1/4 corner bet. secs. 27 & 34 - T. 137 - R. 32, no trees near for bearings: At 26 43.85 feet East of the true corner to secs. 26, 27, 34 & 35 we run North 8.10 feet where we set a 2 1/2 by 48 inch galvanized iron pipe for the true 1/4 corner between secs. 26 & 35; T. 137 - R. 32, no trees near for bearings.

Thursday July 3rd 1913. M. A. Kemp, S. R. Farnum & team: at the corner to secs. 22, 23, 26 & 27 - T. 137 - R. 32, from the red flag set for temporary corner we chain west 0.72 of a foot and South 0.42 of a foot where we set for the true section corner, a galvanized iron pipe 2 1/2 x 48 inches in size capped on top and anchor rod thro bottom set its full length in the North and South graded wagon road, this corner sets proportionately for distance from all four directions to U.S. corners N. S. E & W.

At the 1/4 corner between secs. 22 & 27, T. 137 - R. 32, we pull up the wood stake and put in its place a galvanized iron pipe 2 1/2 by 48 inches in size, capped on top and with anchor rod thro bottom, set nearly its full length in the ground for the true 1/4 corner. At the corner to secs. 27, 28, 33 & 34 - T. 137, R. 32, we pull up the wood stake and put in its place a galvanized iron pipe, 2 1/2 by 48 inches in size capped on top with anchor rod thro the bottom and set nearly its full length in the ground for the true section corner. At the 1/4 corner between secs. 27 & 34, T. 137 - R. 32 we pull up the wood stake and put in its place a galvanized iron pipe 2 1/2 x 48 inches in size, capped on top and driven into the swamp on a 5 ft. piling for the true sec. cor. At the corner to sections 26, 27, 34 & 35, T. 137 - R. 32, we pull up the wood stake and put in its place a galvanized iron pipe, 2 1/2 x 48 inches in size, capped on top and driven into the swamp on a four foot piling until quite solid, this corner 0.16 of foot South of the red flag, and is the true section cor.

Tuesday July 8th 1913. M. A. Kemp, chain & transit; Rand, chain S. R. Farnum, Thos. Gallagher, Mr Weaver apmen: Beginning Curd's hub 14345.65 ft. East of the iron 1/4 corner on S. side of sec. 34 T. 137 - R. 32, continue east: at 14452 set hub: at 15790.00 E, the 1/4 corner on S. side of sec. 31 - Township 137,

SURVEY RECORD No. 236

R. 31, bears South 34.74 ft. at which point O. S. notes call for a post and Yellow Pine 20. N 8° E 64 links (= 42.24 ft.) Yellow Pine 26 N 13° W 27 links (= 17.52 ft.) We find the stumps of both old trees from which we set a galvanized iron pipe, 2 1/2 by 48 inches in size, capped on top and set nearly its full length in the ground for the true 1/4 corner on the south side of sec. 31 T. 137, R. 31 and at 9° 15' variation. We mark new bearings as follows:

White Birch bears N 66° 37' E 27.30 feet. Pine stump bears N 60° 10' W 34.20 feet. We find the S. E. corner of Township 137, R. 32, being the S. W. cor. of Twp. 137, R. 31, established 8 years ago by County Surveyor CURS, and at a point 13250.80 feet East of the iron 1/4 corner on the South side of section 34, T. 137, R. 32. This corner sets South 33.79 feet making a slight crook North of only one tenth of a foot between the U.S. corners E. & W. We set a galvanized iron pipe 2 1/2 by 48 inches in size, capped on top, and with anchor rod thro. bottom, set nearly its full length in the ground for the true S. W. cor. of Twp. 137 R. 31, being the S. E. cor. of T. 137, R. 32, and mark new bearings at 9° 30' as follows:

Pine stump bears N 22° 15' E 56.80 feet distant. Poplar 6, N 15° W 62.10 feet. At a point on random line 14495.00 ft. East of 1/4 on South side of sec. 34 T. 137 R. 32, we run South 34.17 feet and set a 2 x 2 x 30 inch oak stake & tack for the North Township corner to Twp. 136, Range 31 & 32 and mark new bearings at 9° 30' variation as follows: Poplar stub bears S 5° W 15.30 feet distant:

Wednesday July 9th 1913. Same crew except Gallagher.

At a point 10560. feet East of the 1/4 cor. on south side of sec. 34, T. 137 R. 32 we run South 32.99 feet where we set a galvanized iron pipe 2 1/2 by 48 inches in size, capped on top, and set nearly its full length in the ground for the true 1/4 corner on the south side of section 36, Twp. 137, R. 32 and mark new bearings as follows: Poplar 6 N 5° W 59.60 feet dist. Poplar 6 N 30° E 57.75 feet distant.

At a point 7920 feet East of 1/4 on S. side of sec. 34, we run South 24.41 feet where we set a 2 1/2 by 48 inch galvanized iron pipe, with cap on top for the true South corner to sections 35 and 36 on S. boundary of Twp. 137, R. 32. no trees near.

Beginning at the iron Twp. corner run North between sections 31 and 36, between Twp. 137 N. R. 31 and 32 W, along the range line 8° 10' var. at 1425 hub: at 1750 enter swamp: at 1990 lv. same: at 2163.20 set hub: at 2480 enter swamp: at 2640 lv. same: at 3210 hub on hill: at 3851.30 hub on high hill: 4652.80 hub on hill: 5248.18 the corner to sec. 25, 30, 31 & 36, bet. twps. 137, R. 31 & 32 sets East 79.06 feet at which point O. S. notes call for a stake and: White Birch 6 N 60° W 6 links (= 3.96 feet)

White Birch 6 S 48° W 22 links (= 14.52 feet) White Pine 8 S 60° E 28 links (= 18.48 ft.) White Pine 18 N 32° E 20 links (= 13.20 ft.) We find the stumps of the N. E. & S. E. trees and the burned roots of the other two trees from which we set a 2 1/2 by 48 inch galvanized iron pipe, with cap on top, set nearly its full length into the ground for the true corners, and mark new bearings as follows: 8° 15' var. Pine Stump 12 S 46° E 18.30 feet. Pine Stub 18 N 68° 50' E 16.65 ft.

Revisiting the South boundary: at a point 5280 feet East of the 1/4 corner on South side of sec. 34 T. 137, R. 32, we run South 8.10 feet where we place a 2 1/2 by 48 inch galvanized iron pipe, capped on top and set nearly its full length into the ground for the true 1/4 corner on the S. side of sec. 35 Twp. 137, R. 32, no bearing trees near.

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At the temporary S.W. corner of sec. 35, we chain one foot 10 ft. west where we set a 2 1/2 by 48 inch galvanized iron pipe, capped on top and set its full length into the ground for the true corner to secs. 34 & 35 on the south boundary of township 137, Rg. 32 and mark new bearings as follows: @ 8° var.

Jack pine 6 N 42° 41' E 43.50 feet distant. Jack pine 6 N 51° 06' W 47.35 feet distant.

At a point on transit line 105.47.10 ft. South, we run North 37.02 feet to 105.10.08 South, then half a foot (0.50 ft.) west where we set a 2 1/2 x 48 inch galvanized iron pipe capped on top and set in the big open swamp, for the true 1/4 corner between sections 34 and 35, Twp. 137 Rg. 32.

July 11th 1913. rained all day; Saturday July 12th 1913. cloudy.

M.A. Kempf, Ole Rand & S. R. Farnum work. The 1/4 corner between secs. 14 and 15, T. 137, Rg. 32, previously established five years ago by Deputy County Surveyor N.W. Aticks, and set from old U.S. bearings, calls from Aticks new bearings as follows: Stone S 45° E 45 ft. distant.

Stone N 45° W 45 ft. distant; and a stone marked (+) and from these bearings we set a galvanized iron pipe, 2 1/2 by 48 inches in size, capped on top and set its full length in the center of a graded wagon road which runs west and south, for the true 1/4 corner bet. secs. 14 & 15, T. 137, Rg. 32.

At the corner to secs. 2, 3, 10 and 11, T. 137, Rg. 32 W. 5th P.M. The U.S. notes call for a post and the following bearing trees:

- Aspen 10 S 16° W 8 links distant. Aspen 6 S 75° E 35 links distant.
- " " 6 N 69° 30' E 32 links. " " 12 N 82° W 133 "

We find the S.W. & N.E. trees plainly marked from which we set a 2 1/2 by 48 inch galvanized iron pipe, capped on top and set nearly its full length into the ground; for the true corner to secs. 2, 3, 10 & 11, T. 137, Rg. 32.

At the 1/4 corner between secs. 15 and 16, T. 137, Rg. 32 we pull up the old wood stake and put in its place a 2 1/2 by 48 inch galvanized iron pipe, capped on top and set in the center of East and West road grade for the true 1/4 corner.

At the corner to secs. 9, 10, 15 and 16, T. 137, Rg. 32, U.S. notes call for: White Birch 6 S 59° E 40 links. Aspen 10 N 32° 30' E 62 links. White Birch 9 S 60° 30' W 39 links. Aspen 8 N 18° 30' W 41 links.

We find the stump of the N.E. tree, from which we set a 2 1/2 by 48 inch galvanized iron pipe capped on top and set its full length into the ground, for the true corner, at which point we pull up an old section corner stake in setting the iron which is in the road center.

At the 1/4 corner between secs. 9 & 10, T. 137, Rg. 32, we pull up an old U.S. section corner stake which sets in the road and put in its place a 2 1/2 x 48 inch galvanized iron pipe, capped on top, for the true 1/4 corner.

At the corner to secs. 3, 4, 9, & 10, T. 137, Rg. 32, we pull up the old U.S. section corner stake which sets in the road and put in its place a 2 1/2 by 48 inch galvanized iron pipe, capped on top and set its full length in the ground for the true section corner.

Monday July 14th 1913. Kempf, Rand, S. R. Farnum, to set the 1/6 corner between the North half of secs. 26 and 27, T. 137, Rg. 32;

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At hub 1320 South, we chain North 5.82 feet thence West 0.25 of a foot where we set a 2 1/2 by 48 inch galvanized iron pipe, capped on top and set its full length in the ground for the temporary 1/4 corner North of the 1/4 corner between secs. 26 and 27. This is correct as to North and South, but may have to go half a foot West to be on line.

To set the 1/4 corner between secs. 26 and 27: at Sta. 5267.10 ft. South we chain North, 12.06 ft. and West half a foot (0.50) where we set a 2 1/2 by 48 inch galvanized iron pipe capped on top, and set its full length in the ground for the true 1/4 corner.

At the corner to secs. 23, 24, 25 & 26, T. 137, R. 32, we pull up the wood stake and put in its place a 2 1/2 x 48 inch galvanized iron pipe capped on top and set nearly its full length in the ground for the true corner and mark new bearings at 8° 15' var:

Poplar 7 N 18° 42' W 56.15 feet distant; Poplar 4 S 17° 15' W 42.00 feet distant;

At a point 26.72.84 feet East of the corners of secs. 23, 24, 25 & 26 we chain North 9.89 feet where we set a 2 1/2 by 48 inch galvanized iron pipe capped on top and set in the ground for the true 1/4 corner between sections 23 & 26, T. 137, R. 32.

As the town board refuse to have any more corners set this completes the survey.

Survey begun June 18th 1913

Completed July 14th 1913

Notes recorded July 28th 1913

John W. Curo, C. Surveyor Cass Co. Minn.

NOTES		144-31
Sec	Dist From	Top of This Book
3	581	
4	581	
10	581	
NOTES		145-31
21	580	
22	580	
27	580	
28	580	
33	580	
34	580	

Twp 144 N R 31 W Secs 3, 4, 9, 10, 15, 16.
 " 145 N " 31 W " 21, 22, 27, 28, 33, 34, 35

Field notes of the survey of a county road and the establishment on permanent iron section corners with new bearings in sections 3, 4, 9, 10, 15 & 16 Township 144 N, Range 31 W 5th P.M. and sections 21, 22, 27, 28, 33, 34 & 35 Township 145 N, Range 31 W 5th Principal Meridian, as surveyed and established by John W. Buro, County Surveyor of Cass Co. Minnesota.

July 16th 1913 John W. Buro transitman and chairman:
 John Howard Swamberg chairman, Herman B. Bencker, Herman Abrahamson, and Ole Haroldson apmex. We use a Heller & Brightly transit and 300 foot Chicago steel tape.

Beginning at the corner to sections 27, 28, 33 & 34, T. 145, R. 31, previously established by Buro from all four old U. S. bearing trees, we run south on about 8° magnetic variation East: At 300 set stake: at 587.40 tack in log: at 600 ft. stake: at 750 foot of hill: thence up slope of hill: at 900 stake: at 996.70 tack in root, E. side of stump on top of hill: thence along level ground and at 1200 set stake: Quit for dinner.

P.M. Continue South: At 1500 set hub: at 1778.60 hub, variation reads 7° 50' E: But we are still running our line straight: at 1800 set stake: at 2021 center of notch in west side of big dry pine stub, 3-ft. thro.

at 2065 hub, var 7° 45': at 2100 stake: at 2400 stake: at 2649.10 the true 1/4 corner between sections 33 & 34 - T. 145 - R. 31, sets west 36.40 feet, at which point U. S. notes call for a post and the following bearing trees: Red Oak S. 85° 30' W. 28 lks. (= 18.48 feet) Ironwood 48° 86' E. 20 links (= 13.20 feet) We find the S.W. Red Oak standing green and plainly marked, from which we set a hub and tack for the true 1/4 corner, at 7° variation, from face of figures, after which the roots of the old S.E. ironwood check out for course and distance: We marked bearing trees as follows: Elm 10 S 43° 49' W 63.73 feet distant: White pine 30 N 86° 14' E. 89.26 feet distant, to nail heads in spots at base of trees. 7° var. E.

In running this mile of line we set our chainage stakes in line, with the transit so that in correcting back we saw chain from the stakes.

Correcting back: stake 2649.10 goes west 36.40 feet: 2400 goes west 3298 ft. 2100 goes west 2888 ft. 1800 goes west 2473 feet: 1500 goes West 20.61 ft. 1324.55 goes west 18.20 ft to 1/4 corner: 1200 goes west 16.49 ft. 900 goes west 12.37 ft. 600 goes West 8.24 ft. 300 goes west 4.12 feet to true line, and at each of the places every 300 feet we set a hub and tall stake marked "true sec. line - road center". This half mile corrected run on about 7° variation E.

July 17th 1913 Same crew, with Guy A. Todd assistant transitman Beginning at the 1/4 corner between secs. 33 & 34, T. 145, R. 31, run S. on about 7° var. at 300 stake: at 322 cross E & W. wagon road: at 412 old road 7 W. 4 S E. at 600 stake: at 800 hub: 900 stake: 1128 hub: at 1200 stake: at 1500 stake: 1800 hub: at 1956 cross good wagon road bears 7 W. 4 S E. then E. at 2100 stake: at 2400 stake at 2512.80 tack in log: at 2640 set hub & tack for temporary corner to sections 33 & 34, on south side of Twp. 145, 31, where notes call for:

Br. Oak 10 N 1° E 125 links (= 82.50 ft.) Yellow Pine 16 N 58° E 50 lks (= 33.00 ft.) The trees appear to be gone, quit for dinner.

SURVEY RECORD No 237

Going back to the corner to sections 27, 28, 33+34, T. 145, 31, we run North, between 27+28, on about $7^{\circ}20'$ var.: at 300 stake: at 336 cross main E+W wagon road: at 600 stake: at 653.50 hub: at 900 stake: at 1100 enter green Lam Swamp: at 1200 stake: at 1232 tack in Tam. log: at 1500 stake: 1800 stake: 1803 tack in log at 2100 stake: 2400 stake: at 2685 tack in log: at 2700 stake: At the $\frac{1}{4}$ corner between secs. 27+28, T. 145, 31, N.S. notes call for a post and the following bearing trees: Tamarac $6S 44^{\circ}E$ 8 links: Tamarac $6S 72^{\circ}W$ 14 links: The stake and both trees have been grubbed out in the building of an old E+W logging road, and are gone, we continue North, straight line but rough chaining: set line a short distance and quit for night.

July 18th 1913 Same crew except Haroldson, continue North, rough chain double center tacked hubs: at 3000 stake: at 3150 set hub: at 3300 stake: 3600 stake: at 3410 tack in log: at 3900 stake: at 4150 leave swamp: 4175 set hub: at 4200 stake: at 4500 set stake: at 4800 set stake: at 5100 hub: at 5275 rough chain, the true corner to secs. 21, 22, 27+28 - T. 145, R. 31 sets West 60.30 feet at which point U.S. notes call for: Jack Pine $6, S 3^{\circ}30'E$ 196 links (=129.36 feet). Jack Pine $8, S 4^{\circ}W$ 190 links (=125.40 feet.)
 " $4 N 52^{\circ}W$ 78 " "
 " " $8 N 49^{\circ}30'E$ 370 links:

The N.E. + N.W. trees are gone but the S.E. + S.W. trees are standing green and plainly marked and from the face of the figures we locate the true corner by proportionate measurement and courses. Our preliminary line just run shows that at this point the true line would run on $8^{\circ}15'$ var. so at $8^{\circ}15'$ we run a line North + South proportionally between the two old bearing trees and North of the trees we drive a line of stakes to mark the true meridian, and finding that the trees lack 3.10 feet of checking with each other for measurement, we begin at the S.W. tree and run $N 4^{\circ}E$ until we intersect our line of stakes, thence North along the true meridian and at 125.40 feet set hub which we mark "A." Then from the S.E. tree we run $N 3^{\circ}30'W$ until we intersect our line of stakes thence North along the true meridian and at 129.36 feet set hub which we mark "B." Hub "B" sets 3.10 feet South of hub "A." so we proportionate this 3.10 feet difference as follows: Total chain of 129.36 and 125.40 added equals 254.76 feet is off 3.10 feet: The distance to hub "A" is 125.40 ft. and would be off 1.52 ft. and goes South 1.52 ft. to a point 123.88 feet from the S.W. tree: Hub "B" being 129.36 feet would be off 1.57 ft. and goes North 1.57 ft. to a point 130.93 ft. from the S.E. tree at which point we set a an iron sec. corner, being a galvanized iron pipe, 4 feet long by 2 $\frac{1}{2}$ inches through, capped on top and an iron anchor rod thro bottom, and set its full length in the sandy ground, for the true corner to sections 21, 22, 27+28 - T. 145 - R. 31, with new bearings set at $9^{\circ}10'$ var. as follows: Jack Pine $8 N 32^{\circ}56'W$ 49.05 feet Jack Pine $8 N 65^{\circ}05'E$ 80.34 feet. To nail heads in spot at base of trees. The old S.W. bearing tree stands about $5^{\circ}W$ and the old S.E. tree stands about $S 3^{\circ}E$ at $8^{\circ}15'$ var.

As this line has been chained roughly, and every stake has been set on the true random line with the transit we correct up the line as follows: Stake 5275 goes West 60.30 feet. 5700 goes West 58.29 ft. 4800 goes West 54.86 feet 4500 goes West 51.43 ft. 4200 goes West 48.50 ft. 3900 goes West 44.59 feet. 3600 goes West 41.16 ft. 3300 goes West 37.73 ft. 3000 goes West 34.30 ft. 2700 goes West 30.87 ft. 2400 goes West 27.44 ft. 2100 goes West 24.01 ft. 1800 goes West 20.58 ft. 1500 goes West 17.15 ft. 1200

goes West 13.72 ft. 900 goes West 10.29 ft. 600 goes West 6.86 ft. 300 goes West 3.43 ft.

In correcting this line we set solid hubs every 300 feet to mark true section line and at each hub we marked a four foot stake "true sec. line, road center"

There is over half a mile of quite solid swamp which is covered with small green spruce and tamarac trees. The water in the swamp is cold and good to drink.

July 19th 1913. Same crew. Going to the corner to sec. 34 & 35 on South side of Twp. 145-31 where U.S. notes call for post and: Yellow Pine 14 v 5 3° E 116 links (= 76.56 ft.) Yellow Pine 20 v 5° W 166 links (= 109.56 ft.). We find the tall stub of the N.W. tree standing plainly marked, and the burned stump of the N.E. tree from which we set a hub and tack for the true section corner by flat chain from face of trees after which the old trees stands perfect for course and distance, at 8° 15' variation.

Run West on 8° 15' variation: at 300 ft. 600 ft. 900 ft. set stake: at 964 ft. center of good wagon road bears N.W. & S.E.: at 1200 stake: at 1300 set hub: variation changes to 8° 45' but our line is straight: at 1350 enter small meadow: at 1600 set stake; lv. meadow: at 1850 set hub: at 1900 stake; enter open swamp: at 2200 stake: at 2500 stake in swamp: at 2637.30 the 1/4 corner on South side of section 34, 145-31 bears North 14.70 feet at which point the U.S. notes call for stake and: White Pine 24 v 65° E 16 links distant: Ash 7 v 20° W 29 lks.

We find the tall stump of the white pine standing in the North side of the swamp plainly marked and from the face of this we set a hub and tack for the true 1/4 corner at 8° 45' variation. The Ash bearing tree is gone. Quit for night.

July 20th 1913. Same crew except Swanberg. Beginning at the 1/4 corner on South side of sec. 34, T. 145-31, run West 8° 35' var. with telescope backsighted almost exactly where the true line should come run West. At 75 ft. lv. swamp at 300 stake: 583.70 the U.S. closing corner to sections 34 & 4, of Twp. 144-31 sets North 9.90 feet at which point we find a dry tamarac stake and tack set by Harry S. Todd, set from the old U.S. bearing trees which are still here, the S.E. tree standing green and plainly marked, which checks out perfect to face of figures, and we find Todd's two new bearing trees as follows: Tamarac 12 S. 9° 20' E 20.14 feet: Sam. 10 S 40° 35' W 45.48 feet. to face of trees 8° 30'. Continue West: At 600 stake: 760 lv. swamp: at 900 hub: 925 enter swamp: at 975 lv. same: at 1200 stake: 1500 hub: 1800 stake: 1866 cross good wagon road N.W. & S.E. 2000 enter swamp: 2100 stake: at 2250 lv. swamp: at 2400 stake: at 2699.50 our hub No. 2640 coming from the North sets North 14.73 feet: at 2699.80 set hub: at 2700 set stake: Abraham and Bencker outline West, while Guy Todd & I go to the corner to sections 27, 28, 33 & 34, where we pull up the wood hub and put in its place a galvanized iron sec. corner, being a pipe 4 ft long by 2 1/2 inches thick, capped on top, anchor rod through bottom and set its full length into the ground for the true section corner - it has the numbers of the four section corners marked on the top, 27, 28, 33 & 34 - put in with a punch we mark new bearings as follows: Jack Pine 10 S 47° 30' W 54.50 feet. Jack Pine 5 S 40° 10' E 64.72 feet. @ 8° 15' var. set with a Gurley compass and a 100 foot tape: Quit for night.

July 21st 1913. Curzo, Guy Todd, Swanberg, Bencker and Abraham, going to South side of Twp. 145-31 begin at hub 2699.80 continue transit line West, perfect chain double center hubs: at 3000 stake: at 3300 stake: at 3450 hub: at 3600 stake: at 3900 stake: var. 8° 35' at 4160 enter meadow: at 4200 stake: 4500 stake: 4600 lv. meadow: at 4800 stake: at 4832.80 hub: at 5080 cross wire fence N. & S. at 5280 stake: at 5285.28 the true 1/4 corner on South side of sec. 33, T. 145-31, bears North 22.30 ft. at which point U.S. notes call for post and: White Pine 24 v 72° W 25 links (= 16.50 ft.) Sam. 1 v 11° E 47 lks. (= 31.02 ft.) We find the N.W. Pine down but plainly marked and the two foot tall stump of the Sam. & from the two we set the true 1/4 corner, by flat chain from

face of the trees, after which we set an iron $\frac{1}{4}$ corner being a galvanized iron pipe 4 ft. long by 2 $\frac{1}{2}$ inches thick, capped on top, anchor rod thro bottom and marked "4" with a punch, set its full length in the ground for the true $\frac{1}{4}$ corner on South side of sec. 33-T. 145-R. 31 with new bearing objects as follows: Cross (+ - B.O.) in 2 foot stone bears North $32^{\circ} 40'$ W. 42.88 ft. Cross (+ - B.O.) in 4 ft. stone bears $71^{\circ} 18'$ E. 42.60 ft. distant, at $7^{\circ} 35'$ var. A new post set by some one sets 42.50 ft. North & 3 ft. West, and an E. & W. wire fence is North 19 steps. Correcting back: with transit on hub 2699.80 W, we chain East 57.36 feet from stake 2700, to 2642.64 West, thence North 11.15 feet to point for the true corner to sections 33 & 34 on South side of Twp. 145, Rg. 31, where we set an iron section corner being a galvanized iron pipe, 2 $\frac{1}{2}$ by 48 inches in size, capped on top, anchor rod thro bottom, marked with a punch on top "33-34-145-31" and set its full length in the ground for the true corner to sec. 33 & 34, Twp. 145, Rg. 31. Going to the $\frac{1}{4}$ cor. bet sec. 33 & 34-T. 145-R. 31 we pull up the wood hub and put in its place a galvanized iron pipe 4 ft. long by 2 $\frac{1}{2}$ inches thick capped on top, with anchor rod thro bottom, and marked "4" with a punch & set its full length into the ground for the true $\frac{1}{4}$ corner. Quit for night.

July 24th 1913. Curro, Bencker, Abraham and Saverberg: Going to the corner to sec. 3, 4, 9 & 10, T. 144-R. 31, we find a stake previously set by Harry S. Todd, Deputy County Surveyor of Cass Co. Minn. The stake was set from old U.S. bearing trees and is the correct corner. We take up the stake and put in its place a galvanized iron pipe 4 ft. long by 2 $\frac{1}{2}$ inches thick, capped on top, with anchor rod thro bottom, marked with a punch "3, 4, 9, 10" set 3 feet into the ground in a mud hole, then pile stone around pipe in bottom of trench, fill up trench and at top of iron place one big stone on S. side and another big stone on N. side so that the top of the big two-foot stones come even with the top of the iron to prevent teams from striking the iron then Mr. Abraham shovels dirt over and around the iron and stone until there is a mound 6 ft. across.

The new bearing trees marked by Deputy Co. Surveyor Todd are as follows: Maple 10 S. $63^{\circ} 30'$ W. 14.15 feet distant. Oak 22 N. $15^{\circ} 11'$ W. 43.48 feet distant. Poplar 12, N. $79^{\circ} 26'$ E. 36.78 ft. distant. Poplar 8 S. $37^{\circ} 16'$ E. 39.45 ft. distant. These trees are still here and with the iron monument first set mark the true corner to sec. 3, 4, 9, 10-T. 144-R. 31.

Walking to the corner to sec. 34 & 35 on the South side of Twp. 145, Rg. 31, previously established by me from both old U.S. bearing trees, we pull up the wood stake and put in its place a galvanized iron pipe 2 $\frac{1}{2}$ inches thick by 4 ft. long, anchor rod thro bottom, capped on top, and marked "34-35-145-31" set 3 $\frac{1}{2}$ feet in the sandy ground with mound of dirt thrown to the top of iron, both old U.S. bearing trees are here and check out perfect for course and distance: We drive a nail in each of the old trees & also drive a nail in a flat spot at the base of two new bearing trees which stand as follows: Jack Pine 8 N. 52° E. 7.10 ft. distant. Norway Pine 6 N. about 55° W. 53.72 ft. dist.

July 25th 1913. Beginning at iron corner to sections 3, 4, 9, 10-145-31 run North on about $7^{\circ} 40'$ variation along W. side of newly cut out road. At 300, 600, 900, ft. set stakes with transit at 1100 set hub: at 1200, 1500, 1800, 2100 set stakes with transit: at 2228.30 ft. set hub: at 2400, 2700, set stakes with transit: at 2766.60 set hub: at 3000, 3300, set stakes. At 3350 cross wagon road which runs S.E. at 3600 stake, at 3731.70 set hub West of Jack Kiley's house; at 3742.10 tack in root of big burned White Pine stump at 3900 set stake: at set hub: at enter tamarac & cranberry swamp at 5374.40 N. the U.S. Closing corner stake set by the U.S. Surveyors and re-established by Deputy Co. Surveyor Harry S. Todd sets West 64.20 feet. Quit for night. As I wish to check up on my field notes to be sure they are correct before setting any more corners, I have Bencker drive me to Cass Lake where I catch the train to Walker by way of Bemidji.

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July 25th 1913. I compare my notes with the old original U.S. notes and find them correct.

July 31st 1913. Curo, Swanberg, Bencker and Abraham work: We drive the 1/4 cor. between 9+10-T.144, R.31, where U.S. notes call for post and: Elm 6, N. 88° E. 50 links, dist (=33.00 ft) Aspen 6, N 61° W. 18 links (=11.88 feet) We find the N.E. Oak standing plainly marked, and the stump of the N.W. tree, and from these we set the true 1/4 corner by flat chain from face of trees after which both stand correct for course at 9° variation. We set a galvanized iron pipe 4 ft. long by 2 1/2 inch thick, anchor rod thro bottom capped on top and marked "1/4" on top with a punch marker, and set its full length into the center of the newly cut out N. & S. Co. road, for the "1/4" corner between secs. 9+10, T. 144, R. 31, with new bearings as follows: Oak 27 bears S 83° 49' W 23.72 feet distant to nail head. This oak has timber strike marks and was evidently marked by some cruiser about ten years ago, we drive a nail in a flat spot at the base of a 10 inch oak which bears S 36° 15' E 45.83 feet distant at 9° variation east. With a red flag placed at the iron corner to sections 3 4, 9, 10, 144-31 and another red flag placed half a mile South at the iron 1/4 cor. bet. secs. 9+10, I work transit on line between the two points, then drive a row of hubs flush with the ground and set a four foot stake at each hub, marked "true sec. line-road center". we did not chain this half mile. We drive South to the corner to sections 9, 10, 15, 16-T. 144-R.31. where U.S. notes call for post: White Pine 30 west 50 links (=33.00 feet) White Pine 30 S 43° 30' E 85 links (=56.10 ft) " " 28 N 73° E 98 " " L=64.68 feet) Red Oak 12. N 22° W 57 links (=37.62 ft.) We find the big stump of the S.E. and N.E. trees plainly marked from which we set the true corner by flat chain from face of "B.T." marks after which the S.E. stump bears S 44° 40' E 56.10 ft. distant, and the N.E. stump bears N. 72° 23' E. 64.68 feet distant. The West tree has been grubbed out in the building of a new road which runs West & the N.W. tree is gone: We set a galvanized iron pipe 4 feet long by 2 1/2 inches thick anchor rod thro bottom, capped on top and marked with a punch, "9, 10, 15, 16" and set its full length in the ground for the true corner to secs. 9-10-15-16-144-31 with new bearings as follows: Pine Stump S 57° 47' W 80.50 ft. to nail in spot at base. Oak 6 N 35° W 31.50 ft. to nail in spot at base at 10° var. E. As this iron corner is too far West to look up the cut out road North. We go North a half a mile to the iron 1/4 corner between secs. 9+10 and run south along West side of newly cut out road: at 660 ft. rough chain set stake: at 1320 stake: at 1980 stake: at 2640 ft rough chain stake: the true iron corner to secs. 9, 10, 15, 16- sets West 38.70 feet. As the stakes were set with the transit we correct back as follows: 1980 run West 29.02 and set hub and 4 ft. stake marked "true line" at 1320 run west 19.35 and set hub and center stake: at 660 run west 9.67 ft. and set hub, and 1/4 ft. center stake: At the 1/4 corner bet. secs. 3+4-T. 144-R.31, we find the tall dry stub of the old S.E. bearing tree and the root of the old N.W. tree from which we set a 2 1/2 x 48 inch galvanized iron pipe with anchor rod thro bottom, capped on top, and marked with a punch "1/4" and set its full length in a one foot mound of dirt for the true 1/4 corner bet. secs. 3+4-T. 144 R. 31. from which both old bearing trees stand correct for course and distance at 8° 30' variation: A tack in White-pine root bears N 16° 55' W. 58.35 feet distance. Oak 10 bears N 69° 42' W 80.92 ft. to tack head @ 8° 30' variation

At a point where the N. & S. section line between secs. 3+4-T. 144-R.31. intersects and crosses the true Standard parallel line along the South boundary of Twp. 145-R.31, we set a galvanized iron pipe 4 feet long by 2 1/2 inches thick capped on top and driven solidly into the green tamarac swamp on 6 ft. dry tunnel

SURVEY RECORD No 237

piling, solidly driven and left sticking up so that the top of the iron is 16 inches above the swamp level, at which point the closing corner set by the U.S. surveyors sets north 73° feet. We will preserve this old corner to show the position of the N. + S. section line between secs. 3+4 - T. 144 - Rg. 31, as to E + W. but its true length is fiped and only extends to its actual intersection with the true Standard Parallel line, as we cannot allow this closing corner to cause a crook in the Standard line.

At a point on our transit line 2553.50 feet North of the corner to sections 3-4-9-10 - T. 144 - Rg. 31. the $\frac{1}{4}$ corner sets West 18.86 feet, and 5374.40 ft. North the Old closing corner sets West 64.20 feet, showing that the $\frac{1}{4}$ corner between secs. 3+4 crooks 11.64 feet East out of line. The North half mile between secs. 3+4, 144-31 runs on 8° 30' east.

August 1st 1913. Becker & Abraham apmrs and chainmen pull up the wood hub at the $\frac{1}{4}$ corner on the South side of sec. 34, Twp. 145 - Rg. 31, and put in its place a galvanized iron pipe, 2 $\frac{1}{2}$ inches thick by 4 feet long, capped on top and set its full length in the ground for the true $\frac{1}{4}$ corner.

Survey begun July 16th 1913

Finished Aug 1st 1913

Recorded Sept 4th 1913

John W. Cuss, Co. Surveyor

Cass Co. Minnesota

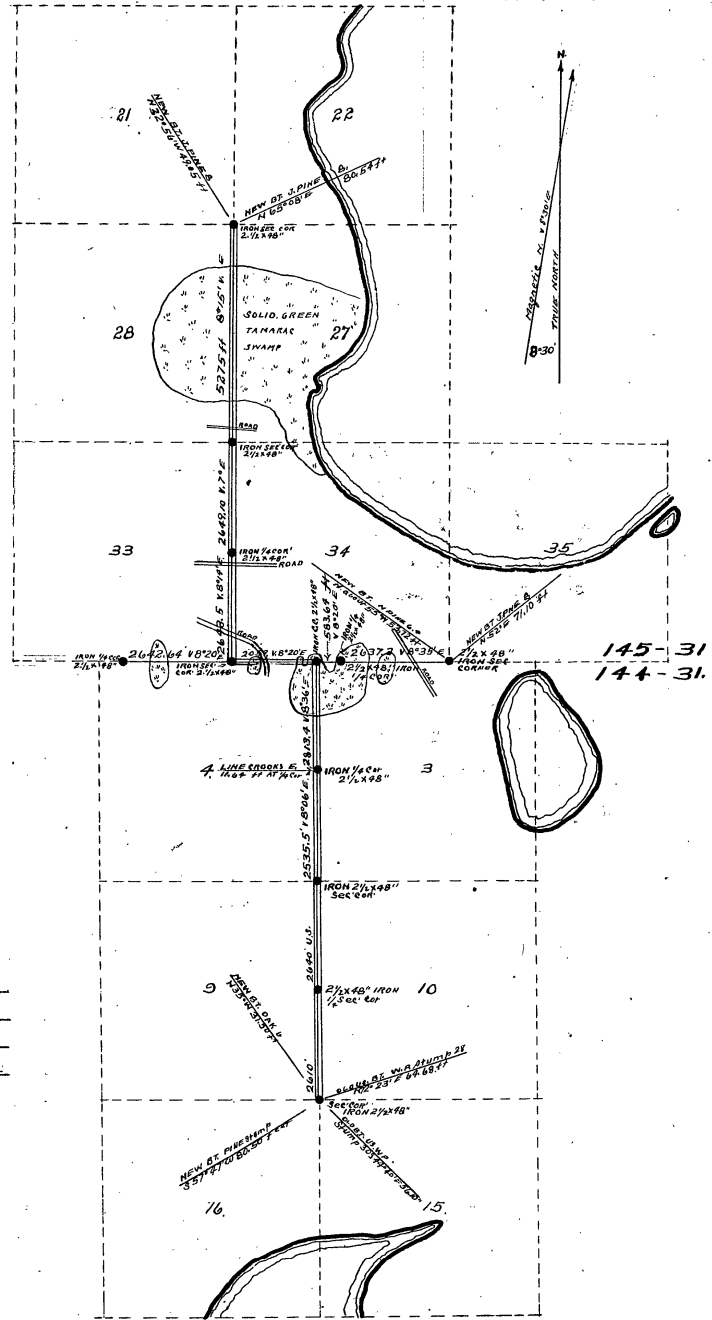
PLAT.

T. 144 R. 31 SEC'S 3, 4, 9, 10, 15, 16
 " 145 " 31 " 21, 22, 27, 28, 33, 34, 35.

Scale: 2" = 1 Mile

SURVEY RECORD No 237.

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-144-31-	
Sec	Dist From Page of THIS Book
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10	540
145-31	
21	531
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27	531
28	531
33	531
34	531



Survey begun July 16th 1913
Survey Finished August 1st 1913
Recorded Sept. 17th 1913
John W. Carr, Co Surveyor, Cass Co. Mo.

Note: These lines were cut out before being written on and were
 cut out before the work arrived at my office. John W. Reed, Co. Surveyor, Conn. & W. Va.
 The Board members took them to the

47299--Lewis F. Dow Co., Bank Mfg. Stationers, St. Paul, Minn.

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		31				31				31				31	PLAT. 583 NOTES 581 T. 582
		32				32				32				32	PLAT. 583 NOTES 581 T. 582
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	26			145	26			180	27	1	PLAT 574 NOTES 577 To 580	40	27		308r.311 PLAT 312
						2				2	PLAT 574 NOTES 577 To 580				308r.311 PLAT 312
						4				4				4	308r.311 PLAT 312
						6				6				6	PLAT 520 NOTES 521 To 522
						7				7				7	PLAT 504 NOTES 505
						8				8				8	PLAT 504 NOTES 505
						9				9				9	308r.311 PLAT 312
						10				10				10	308r.311 PLAT 312
						11				11	PLAT 574 NOTES 577 To 580			11	308r.311 PLAT 312
			PLAT 516 NOTES 517 To 518			12				12	PLAT 574 NOTES 577 To 580			12	308r.311 PLAT 312
			PLAT 516 NOTES 517 To 518			13				13	PLAT 574 NOTES 577 To 580			13	308r.311 PLAT 312
						14				14	PLAT 574 NOTES 577 To 580			14	308r.311 PLAT 312
						15				15	341			15	308r.311 PLAT 312
						16				16	341			16	308r.311 PLAT 312
						17				17	341			17	PLAT 428 NOTES 429 To 430
						18				18				18	PLAT 504 NOTES 505
						19				19				19	PLAT 504 NOTES 505
						20				20	341			20	PLAT 428 NOTES 429 To 430
						21				21	341			21	PLAT 428 NOTES 429 To 430
						22				22	341			22	308r.311 PLAT 312
						23				23	PLAT 574 NOTES 577 To 580			23	308r.311 PLAT 312
			PLAT 516 NOTES 517 To 518			24				24	PLAT 574 NOTES 577 To 580			24	308r.311 PLAT 312
			PLAT 516 NOTES 517 To 518			25				25	PLAT 574 NOTES 577 To 580			25	PLAT 431 NOTES 432 To 433
						26				26	PLAT 574 NOTES 577 To 580			26	PLAT 431 NOTES 432 To 433
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						33				33				33	
						34				34				34	
						35				35	PLAT 574 NOTES 577 To 580			35	PLAT 574 NOTES 577 To 580
			PLAT 516 NOTES 517 To 518								PLAT 574 NOTES 577 To 580				PLAT 574 NOTES 577 To 580

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		3	PLAT NOTES 74			3				3				3	
		4	PLAT NOTES 74			4				4				4	
		5	PLAT NOTES 74			5				5				5	
		6	PLAT NOTES 74			6				6				6	
		7	PLAT 544 NOTES 545 74 547			7				7				7	
		8				8				8				8	
		9				9				9				9	
		10				10				10				10	
		11				11				11				11	
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		14				14				14				14	
		15				15				15				15	
		16				16				16				16	
		17	PLAT 544 NOTES 545 74 547			17				17				17	
		18	PLAT 544 NOTES 545 74 547			18				18				18	
		19	PLAT 544 NOTES 545 74 547			19				19				19	
		20	PLAT 544 NOTES 545 74 547			20				20				20	
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		26				26				26				26	
		27				27				27				27	
		28				28				28				28	
		29	PLAT 544 NOTES 545 74 547			29				29				29	
		30	PLAT 544 NOTES 545 74 547			30				30				30	
		31	PLAT 544 NOTES 545 74 547			31				31				31	
		32	PLAT 520 NOTES 521 74 522			32				32				32	
		33	PLAT 568 NOTES 569 74 570			33				33				33	
		34	PLAT 568 NOTES 569 74 570			34				34				34	
		35	PLAT 503 NOTES 503			35				35				35	
		36	PLAT 503 NOTES 503			36				36				36	

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		4				4				4				4	PLAT. NOTES
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		6				6				6				6	
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		8				8				8				8	
		9				9				9				9	
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		13				13				13				13	
		14				14				14				14	
		15				15				15				15	
		16				16				16				16	PLAT. 507 NOTES 506
		17				17				17				17	PLAT. 507 NOTES 506
		18	PLAT. 544 NOTES 545 7-550			18				18				18	
		19	PLAT. 544 NOTES 545 7-550			19				19				19	
		20				20				20				20	
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		29				29				29				29	
		30	PLAT. 544 NOTES 545 7-550			30				30				30	PLAT. 512 NOTES 508 7-513
		31	PLAT. 544 NOTES 545 7-550			31				31				31	PLAT. 512 NOTES 509 7-513
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		33				33				33				33	
		34				34				34				34	PLAT. 371 NOTES 369
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		2	PLAT. 535 NOTES 532 To 534			2				2				2	
		3	PLAT. 535 NOTES 532 To 534			3				3				3	
		4	PLAT. 535 NOTES 532 To 534			4				4				4	
		5	PLAT. 535 NOTES 532 To 534			5				5				5	
		6	PLAT. 556 NOTES 557 To 558			6				6				6	
		7	PLAT. 564 NOTES 565 To 567			7				7				7	
		8	PLAT. 564 NOTES 565 To 567			8				8				8	
		9	PLAT. 564 NOTES 565 To 567			9				9				9	
		10	PLAT. 564 NOTES 565 To 567			10				10				10	
		11	PLAT. 535 NOTES 532 To 534			11				11				11	
		12	PLAT. 564 NOTES 565 To 567			12				12				12	
		13	PLAT. 564 NOTES 565 To 567			13				13				13	
		14	PLAT. 564 NOTES 565 To 567			14				14				14	
		15	PLAT. 564 NOTES 565 To 567			15				15				15	
		16	PLAT. 564 NOTES 565 To 567			16				16				16	
		17	PLAT. 564 NOTES 565 To 567			17				17				17	
		18	PLAT. 556 NOTES 557 To 558			18				18				18	
		19	PLAT. 556 NOTES 557 To 558			19				19				19	
		20	PLAT. 564 NOTES 565 To 567			20				20				20	
		21	PLAT. 564 NOTES 565 To 567			21				21				21	
		22	PLAT. 564 NOTES 565 To 567			22				22				22	
		23	PLAT. 564 NOTES 565 To 567			23				23				23	
		24	PLAT. 564 NOTES 565 To 567			24				24				24	
		25	PLAT. 564 NOTES 565 To 567			25				25				25	
		26	PLAT. 564 NOTES 565 To 567			26				26				26	
		27	PLAT. 564 NOTES 565 To 567			27				27				27	
		28	PLAT. 564 NOTES 565 To 567			28				28				28	
		29	PLAT. 564 NOTES 565 To 567			29				29				29	
		30	PLAT. 556 NOTES 557 To 558			30				30				30	
		31	PLAT. 556 NOTES 557 To 558			31				31				31	
		32	PLAT. 564 NOTES 565 To 567			32				32				32	
		33	PLAT. 564 NOTES 565 To 567			33				33				33	
		34	PLAT. 564 NOTES 565 To 567			34				34				34	PLAT. 535 NOTES 532 To 534
		35	PLAT. 535 NOTES 532 To 534			35				35				35	PLAT. 535 NOTES 532 To 534
		36	PLAT. 559 NOTES 561 To 563			36				36				36	PLAT. 559 NOTES 561 To 563

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		3				3				3				3	
		4				4	PLAT. 525 NOTES 571 To 574			4	NOTES 318 To 321 PLAT. 327			4	PLAT. NOTES
		5	PLAT. 525 NOTES 571 To 574			5				5	NOTES 318 To 321 PLAT. 327			5	PLAT. NOTES
		6	PLAT. 525 NOTES 571 To 574			6				6	NOTES 318 To 321 PLAT. 327			6	PLAT. NOTES
		7				7				7	3/8 n. 328 PLAT. 327			7	PLAT. NOTES
		8				8	PLAT. 525 NOTES 571 To 574			8	3/8 n. 328 PLAT. 327			8	PLAT. NOTES
		9				9	PLAT. 525 NOTES 571 To 574			9	NOTES 318 To 321 PLAT. 327			9	PLAT. NOTES
		10				10				10				10	PLAT. NOTES
		11				11				11				11	PLAT. NOTES
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		13				13				13				13	PLAT. NOTES
		14				14				14				14	PLAT. NOTES
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		16				16	PLAT. 525 NOTES 571 To 574			16	NOTES 318 To 321 PLAT. 327			16	PLAT. 527 NOTES 523 To 526
		17				17	PLAT. 525 NOTES 571 To 574			17	PLAT. 327			17	PLAT. 527 NOTES 523 To 526
		18				18				18	3/8 n. 328 PLAT. 327			18	PLAT. 527 NOTES 523 To 526
		19				19	PLAT. 525 NOTES 571 To 574			19	3/8 n. 328 PLAT. 327			19	PLAT. 527 NOTES 523 To 526
		20				20	PLAT. 525 NOTES 571 To 574			20	3/8 n. 328 PLAT. 327			20	PLAT. 527 NOTES 523 To 526
		21				21	PLAT. 525 NOTES 571 To 574			21	3/8 n. 328 PLAT. 327			21	PLAT. 527 NOTES 523 To 526
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		23				23				23				23	PLAT. NOTES
		24				24				24				24	PLAT. NOTES
		25				25				25				25	PLAT. NOTES
		26				26				26				26	PLAT. NOTES
		27				27				27				27	PLAT. NOTES
		28				28	PLAT. 525 NOTES 571 To 574			28	3/8 n. 328 PLAT. 327			28	PLAT. 527 NOTES 523 To 526
		29				29	PLAT. 525 NOTES 571 To 574			29	3/8 n. 328 PLAT. 327			29	PLAT. 527 NOTES 523 To 526
		30				30	PLAT. 525 NOTES 571 To 574			30	3/8 n. 328 PLAT. 327			30	PLAT. 527 NOTES 523 To 526
		31				31	PLAT. 525 NOTES 571 To 574			31	3/8 n. 328 PLAT. 327			31	PLAT. NOTES
		32				32	PLAT. 525 NOTES 571 To 574			32	3/8 n. 328 PLAT. 327			32	PLAT. NOTES
		33				33	PLAT. 525 NOTES 571 To 574			33	3/8 n. 328 PLAT. 327			33	PLAT. 515 NOTES 514 To
		34				34				34				34	PLAT. NOTES
		35				35				35				35	PLAT. NOTES
		36				36				36				36	PLAT. NOTES

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10	10	1	PLAT 512 NOTES 508 To 513	10	10	1	PLAT 556 NOTES 557 To 558	10	10	1	PLAT NOTES	10	10	1	
		2	PLAT NOTES			2	PLAT 489 NOTES 485 To 486			2	PLAT NOTES			2	
		3	PLAT 380 NOTES 378 To 381			3	PLAT 488 NOTES 485 To 486			3	PLAT NOTES			3	
		4	PLAT 380 NOTES 378 To 381			4	PLAT NOTES			4	PLAT NOTES			4	
		5	PLAT 380 NOTES 378 To 381			5	PLAT NOTES			5	PLAT NOTES			5	
		6				6	PLAT NOTES			6	PLAT NOTES			6	
		7				7	PLAT NOTES			7	PLAT NOTES			7	
		8	PLAT 380 NOTES 378 To 381			8	PLAT 488 NOTES 485 To 486			8	PLAT NOTES			8	
		9	PLAT 380 NOTES 378 To 381			9	PLAT 488 NOTES 485 To 486			9	PLAT NOTES			9	
		10	PLAT 380 NOTES 378 To 381			10	PLAT 488 NOTES 485 To 486			10	PLAT NOTES			10	
		11				11	PLAT 488 NOTES 485 To 486			11	PLAT NOTES			11	
		12	PLAT 380 NOTES 378 To 381			12	PLAT NOTES			12	PLAT 556 NOTES 557 To 558			12	
		13	PLAT 380 NOTES 378 To 381			13	PLAT NOTES			13	PLAT 556 NOTES 557 To 558			13	
		14				14	PLAT 488 NOTES 485 To 486			14	PLAT NOTES			14	
		15				15	PLAT 488 NOTES 485 To 486			15	PLAT 500 NOTES 501 To 502			15	
		16	PLAT 380 NOTES 378 To 381			16	PLAT 488 NOTES 485 To 486			16	PLAT 500 NOTES 501 To 502			16	
		17	PLAT 380 NOTES 378 To 381			17	PLAT 488 NOTES 485 To 486			17	PLAT 500 NOTES 501 To 502			17	
		18	PLAT 380 NOTES 378 To 381			18	PLAT NOTES			18	PLAT 500 NOTES 501 To 502			18	
		19	PLAT 380 NOTES 378 To 381			19	PLAT 488 NOTES 485 To 486			19	PLAT 500 NOTES 501 To 502			19	
		20	PLAT 380 NOTES 378 To 381			20	PLAT NOTES			20	PLAT 500 NOTES 501 To 502			20	
		21				21	PLAT 488 NOTES 485 To 486			21	PLAT 500 NOTES 501 To 502			21	
		22				22	PLAT NOTES			22	PLAT 500 NOTES 501 To 502			22	
		23	PLAT 380 NOTES 378 To 381			23	PLAT NOTES			23	PLAT 556 NOTES 557 To 558			23	
		24	PLAT 380 NOTES 378 To 381			24	PLAT NOTES			24	PLAT 556 NOTES 557 To 558			24	
		25	PLAT 380 NOTES 378 To 381			25	PLAT 512 NOTES 508 To 513			25	PLAT 539 NOTES 538			25	
		26	PLAT 380 NOTES 378 To 381			26	PLAT NOTES			26	PLAT 539 NOTES 538			26	
		27	PLAT 380 NOTES 378 To 381			27	PLAT NOTES			27	PLAT 500 NOTES 501 To 502			27	
		28	PLAT 380 NOTES 378 To 381			28	PLAT NOTES			28	PLAT 500 NOTES 501 To 502			28	
		29	PLAT 380 NOTES 378 To 381			29	PLAT NOTES			29	PLAT NOTES			29	
		30	PLAT 380 NOTES 378 To 381			30	PLAT NOTES			30	PLAT NOTES			30	
		31				31	PLAT NOTES			31	PLAT NOTES			31	
		32	PLAT 380 NOTES 378 To 381			32	PLAT NOTES			32	PLAT NOTES			32	
		33	PLAT 380 NOTES 378 To 381			33	PLAT NOTES			33	PLAT NOTES			33	
		34	PLAT 380 NOTES 378 To 381			34	PLAT NOTES			34	PLAT NOTES			34	
		35	PLAT 380 NOTES 378 To 381			35	PLAT 512 NOTES 508 To 513			35	PLAT 488 NOTES 485 To 486			35	
		36	PLAT 380 NOTES 378 To 381			36	PLAT 512 NOTES 508 To 513			36	PLAT 539 NOTES 538			36	

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		3				3				3				3	
		4				4				4				4	
		5				5	260 and 261			5				5	
		6				6	265 and 264			6				6	
		7				7	262 and 263			7				7	
		8				8	258 and 259			8				8	
		9				9	213 and 212			9				9	
		10				10	214 and 215			10				10	
		11				11	217 and 216			11				11	
		12				12	218 and 219			12				12	
		13				13	221 and 220			13				13	
		14				14	222 and 223			14				14	
		15				15	227 and 228			15				15	
		16				16	230 and 231			16				16	
		17				17	241 and 240			17				17	
		18				18	245 and 244			18				18	
		19				19	247 and 248			19				19	
		20				20	242 and 243			20				20	
		21				21	233 and 232			21				21	
		22				22	234 and 235			22				22	
		23				23	226 and 227			23				23	
		24				24	228 and 229			24				24	
		25				25				25				25	
		26				26				26				26	
		27				27	237 and 236			27				27	
		28				28	238 and 239			28				28	
		29				29	246 and 247			29				29	
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		31				31	253 and 252			31				31	
		32				32	254 and 255			32				32	
		33				33	257 and 256			33				33	
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		2	PLAT NOTES			2				2				2	
		3	PLAT NOTES			3				3				3	
		4	PLAT 480 NOTES 481 TO 482			4				4				4	
		5	PLAT 480 NOTES 481 T. 482			5				5				5	
		6	Plot 384 Notes 385			6				6				6	
		7	PLAT - BOTH 384-385			7				7				7	
		8	PLAT 480 NOTES 481 TO 482			8				8				8	
		9				9				9				9	
		10				10				10				10	
		11				11				11				11	
		12				12				12				12	
		13	PLAT 499 NOTES 499			13				13				13	
		14				14				14				14	
		15				15				15				15	
		16				16				16				16	
		17				17				17				17	
		18	Plot 384 Notes 385			18				18				18	
		19				19				19				19	
		20				20				20				20	
		21				21				21				21	
		22				22				22				22	
		23				23				23				23	
		24	PLAT 499 NOTES 499			24				24				24	
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		28				28	PLAT 528 NOTES 528			28				28	
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		30	Plot 384 Notes 385			30				30				30	
		31	Plot 384 Notes 385			31	Plot 383 Notes 382			31				31	
		32				32	PLAT 470 NOTES 470			32				32	
		33				33	PLAT 470 NOTES 470			33				33	
		34				34	PLAT NOTES			34				34	
		35				35	PLAT NOTES			35				35	
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		3				3	4-5			3	PLAT 83 NOTES 82			3	
		4				4	8-9			4	PLAT 80 NOTES 81			4	
		5				5	10-11			5	PLAT NOTES			5	
		6				6	12-13			6	PLAT NOTES			6	
		7				7				7	PLAT 475 NOTES 473 TO 477			7	
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		9				9	26-27			9	PLAT 73 NOTES 78			9	
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		11				11	PLAT 496 NOTES 497 TO 498			11	PLAT 475 NOTES 473 TO 477			11	
		12				12	PLAT 496 NOTES 497 TO 498			12	PLAT 475 NOTES 473 TO 477			12	
		13				13	PLAT 496 NOTES 497 TO 498			13	PLAT 75 NOTES 74			13	
		14				14	PLAT 496 NOTES 497 TO 498			14	PLAT 72 NOTES 73			14	
		15				15	20-21			15	PLAT 71 NOTES 70			15	
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		2	PLAT 456 NOTES 457 To 464			2	Notes 330 Plat 337-340			2	PLAT NOTES			2	PLAT NOTES
		3	PLAT 456 NOTES 457 To 464			3	Notes 330 Plat 337-340			3	PLAT NOTES			3	PLAT NOTES
		4	PLAT 456 NOTES 457 To 464			4	Notes 330 Plat 337-340			4	NOTES 400 PLAT 400			4	3/37-317 PLAT 316
		5	PLAT NOTES			5	Plat 339 Notes 330 to 339			5	NOTES 400 PLAT 400			5	3/37-317 PLAT 316
		6	PLAT 456 NOTES 457 To 464			6	Plat 339 Notes 330-339			6	NOTES 402 PLAT 402			6	3/37-317 PLAT 316
		7	PLAT NOTES			7				7	NOTES 402 PLAT 402			7	3/37-317 PLAT 316
		8	PLAT NOTES			8				8	PLAT 501 NOTES 502 To 500			8	3/37-317 PLAT 316
		9	PLAT NOTES			9				9	PLAT NOTES			9	3/37-317 PLAT 316
		10	PLAT 456 NOTES 457 To 464			10				10	PLAT NOTES			10	
		11	PLAT 456 NOTES 457 To 464			11				11	PLAT NOTES			11	
		12	PLAT 456 NOTES 457 To 464			12	Notes 330 Plat 340			12	PLAT NOTES			12	
		13	PLAT 456 NOTES 457 To 464			13				13	PLAT NOTES			13	
		14	PLAT 456 NOTES 457 To 464			14				14	PLAT NOTES			14	
		15	PLAT NOTES			15				15	PLAT NOTES			15	
		16	PLAT NOTES			16				16	PLAT NOTES			16	3/37-317 PLAT 316
		17	PLAT NOTES			17				17	PLAT 501 NOTES 502 To 500			17	3/37-317 PLAT 316
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		21	PLAT 456 NOTES 457 To 464			21				21				21	
		22	PLAT 456 NOTES 457 To 464			22	174-175			22				22	
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		30	PLAT NOTES			30	PLAT 502 NOTES 502 To 604			30	Plat 339 Notes 330-339			30	3/37-317 PLAT 316
		31	PLAT NOTES			31	PLAT 502 NOTES 502 To 604			31	Plat 339 Notes 330-339			31	NOTES 401 PLAT 401
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		5				5				5	PLAT 488 NOTES 489			5	
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		25				25	NOTES 386 PLAT 387			25				25	
		26				26	NOTES 386 PLAT 387			26	NOTES 387 PLAT 388			26	
		27				27				27	NOTES 387 PLAT 388			27	
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		4	PLAT. 540 NOTES 541			4	282 NOTES 283 PLAT			4				4	PLAT. 589 NOTES 590
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		6	PLAT. NOTES			6	273 and 272			6				6	PLAT. NOTES
		7	PLAT. NOTES			7	270-271			7				7	PLAT. NOTES
		8	PLAT. NOTES			8	277-276			8				8	PLAT. NOTES
		9	PLAT. 540 NOTES 541			9	278-279			9				9	PLAT. 589 NOTES 590
		10	PLAT. 540 NOTES 541			10	280-284			10				10	PLAT. 588 NOTES 589
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		12				12	PLAT. NOTES			12				12	
		13				13	PLAT. NOTES			13				13	
		14				14	PLAT. NOTES			14				14	
		15	PLAT. 611 NOTES 605 TO 610			15	PLAT. 288 NOTES 289			15				15	PLAT. 589 NOTES 590
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		18				18	PLAT. 267 NOTES 266			18				18	
		19				19	PLAT. NOTES			19				19	
		20				20	PLAT. 531 NOTES 529 TO 530			20				20	
		21				21	PLAT. 531 NOTES 529 TO 530			21				21	PLAT. 589 NOTES 590
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		24				24	PLAT. NOTES			24				24	
		25				25	PLAT. NOTES			25				25	
		26				26	PLAT. NOTES			26				26	
		27				27	PLAT. 531 NOTES 529 TO 530			27				27	PLAT. 589 NOTES 590
		28				28	PLAT. 531 NOTES 529 TO 530			28				28	PLAT. 588 NOTES 589
		29				29	PLAT. 531 NOTES 529 TO 530			29				29	
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		32				32	PLAT. NOTES			32				32	
		33				33	PLAT. 531 NOTES 529 TO 530			33				33	PLAT. 589 NOTES 590
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		35				35	PLAT. 611 NOTES 605 TO 610			35				35	PLAT. 589 NOTES 590
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		3				3	PLAT 587 NOTES 588			3	PLAT 407 NOTES 408			3	NOTES 409 To 414 PLAT 409
		4				4	PLAT 587 NOTES 588			4	PLAT 410 NOTES 411 To 424			4	PLAT 410 NOTES 411 To 424
		5				5	PLAT 587 NOTES 588			5	207-208			5	PLAT 410 NOTES 411 To 424
		6				6	PLAT 587 NOTES 588			6	210			6	PLAT 410 NOTES 411 To 424
		7				7	PLAT 587 NOTES 588			7	211			7	PLAT 410 NOTES 411 To 424
		8				8	PLAT 587 NOTES 588			8	206-207			8	PLAT 410 NOTES 411 To 424
		9				9	PLAT 587 NOTES 588			9	PLAT 204 NOTES 205			9	PLAT 410 NOTES 411 To 424
		10				10	PLAT 587 NOTES 588			10	PLAT 592 NOTES 593 To 604			10	PLAT 410 NOTES 411 To 424
		11				11				11	PLAT 592 NOTES 593 To 604			11	NOTES 409 To 414 PLAT 409
		12				12				12	PLAT 592 NOTES 593 To 604			12	PLAT 96 NOTES 97
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		14				14				14	202-203			14	NOTES 98
		15				15				15	PLAT 592 NOTES 593 To 604			15	NOTES 409 To 414 PLAT 409
		16				16				16	PLAT 592 NOTES 593 To 604			16	PLAT 100 NOTES 101
		17				17				17	PLAT 592 NOTES 593 To 604			17	PLAT 103 NOTES 102
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		26				26				26	PLAT 592 NOTES 593 To 604			26	NOTES PLAT 411
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		28				28				28	PLAT 592 NOTES 593 To 604			28	PLAT 107 NOTES 106
		29				29				29	PLAT 592 NOTES 593 To 604			29	PLAT 107 NOTES 106
		30				30				30	PLAT 592 NOTES 593 To 604			30	PLAT 123 NOTES 122
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		34				34				34	PLAT 592 NOTES 593 To 604			34	PLAT 116 NOTES 117
		35				35				35	PLAT 592 NOTES 593 To 604			35	PLAT 104 NOTES 105
		36	PLAT 594 NOTES 595			36				36	PLAT 592 NOTES 593 To 604			36	PLAT 107 NOTES 106
		37				37				37	PLAT 592 NOTES 593 To 604			37	NOTES PLAT 411
		38				38				38	PLAT 592 NOTES 593 To 604			38	PLAT 330 Notes 330-338
		39				39				39	PLAT 592 NOTES 593 To 604			39	PLAT 107 NOTES 106
		40				40				40	PLAT 592 NOTES 593 To 604			40	PLAT 107 NOTES 106
		41				41				41	PLAT 592 NOTES 593 To 604			41	PLAT 123 NOTES 122
		42				42				42	PLAT 592 NOTES 593 To 604			42	PLAT 124 NOTES 125
		43				43				43	PLAT 592 NOTES 593 To 604			43	PLAT 119 NOTES 118
		44				44				44	PLAT 592 NOTES 593 To 604			44	PLAT 116 NOTES 117
		45				45				45	PLAT 592 NOTES 593 To 604			45	PLAT 104 NOTES 105
		46				46				46	PLAT 592 NOTES 593 To 604			46	PLAT 107 NOTES 106
		47				47				47	PLAT 592 NOTES 593 To 604			47	NOTES PLAT 411
		48				48				48	PLAT 592 NOTES 593 To 604			48	PLAT 330 Notes 330-338
		49				49				49	PLAT 592 NOTES 593 To 604			49	PLAT 107 NOTES 106
		50				50				50	PLAT 592 NOTES 593 To 604			50	PLAT 107 NOTES 106
		51				51				51	PLAT 592 NOTES 593 To 604			51	PLAT 123 NOTES 122
		52				52				52	PLAT 592 NOTES 593 To 604			52	PLAT 124 NOTES 125
		53				53				53	PLAT 592 NOTES 593 To 604			53	PLAT 119 NOTES 118
		54				54				54	PLAT 592 NOTES 593 To 604			54	PLAT 116 NOTES 117
		55				55				55	PLAT 592 NOTES 593 To 604			55	PLAT 104 NOTES 105
		56				56				56	PLAT 592 NOTES 593 To 604			56	PLAT 107 NOTES 106

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3	8-9	"	"	4	39	78-79	"	"	9		
4	10-11	"	"	5	40	80-81	"	"	4		
5	12-13	"	"	6	41	82-83	"	"	3		
6	14-15	"	32	1	42	84-85	"	30	18		
7	16-17	134	"	36	43	86-87	"	"	19		
8	18-19	133	31	17	44	88-89	"	"	30		
9	22-23	"	"	16	45	90-91	"	"	31		
10	24-25	"	"	8	46	92-93	138	32	1		
11	26-27	"	"	9	47	94-95	"	"	2		
12	28-29	"	"	10	48	96-97	"	"	11		
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27	54-55	"	"	23	63	126-127	"	"	18		
28	56-57	"	"	22	64	128-129	"	"	19		
29	58-59	"	"	21	65	130-131	140	30	33		
30	60-61	"	"	20	66	132-133	"	"	32		
31	62-63	"	"	19	67	134-135	139	"	4		
32	64-65	"	"	18	68	136-137	"	"	5		
33	66-67	"	"	17	69	138-139	"	"	8		
34	68-69	"	"	16	70	140-141	"	"	9		
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	76	152-153	"	"	21		112	224 225	"	"	24
	77	154-155	"	"	29		113	226 227	"	"	23
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	87	174-175	137	31	22		123	246-247	"	"	29
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	93	186-187	"	"	36		129	258-259	"	"	8
	94	188-189	"	"	35		130	260-261	"	"	5
	95	190-191	"	"	34		131	262-263	"	"	7
	96	192-193	137	32	29		132	264-265	"	"	6
	97	194-195	"	"	30		133	266-267	145	31	18
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