

SURVEY REPORT

In November of 2002 Alan Rajdl requested that I mark the West line of Section 28, T52N, R25W of the 4th Principal Meridian. This line also would be the East line of Section 12, T140N, R25W of the 5th Principal Meridian currently occupied by Lou Holker.

History

August 1863 - U.S. Deputy Surveyor Thornton established this line - the 3rd guide meridian setting corners each 1/2 mile. The East 1/4 and Section Corner common to sections 1 and 12 were established at this time.

June and July 1869 - U.S. Deputy Surveyor Garrison, in the subdivision of Township 52 North, Range 27 West of the 4th Principal Meridian, closed on the above 3rd guide meridian and established the Section Corner to sections 28 and 33.

1890's - The Minneapolis, St. Paul and Sault Sainte Marie Railroad was located calling this line (3rd guide meridian) with the railroad center-line. This railroad was later run by the Soo Line (Canadian Pacific) and then later still and currently the Soo Line Trail maintained by Cass County and Aitkin County Land Departments.

Subsequent Surveys:

May 1931 - The South 1/2 of Section 12 was subdivided and monumented, restoring the East 1/4 and Southeast Corner of Section 12, T140N, R25W of the 5th Principal Meridian.

2000 - The East side, South 1/2 of Section 12 and the East side of Section 13 was resurveyed.

1934 - State Highway route survey started at the East 1/4 to Section 12 and ran North to the East 1/4 to Section 36, T141N, R25W of the 5th Principal Meridian.

1990's - G.P.S. (Global Position System)

Coordinates were established on the East 1/4 of Section 12, T140N, R25W of the 5th Principal Meridian and also the closing corner common to Section 4, T52N, R27W and Section 33, T53N, R27W of the 4th Principal Meridian.

Findings

- 1) Very little of the original surveys of 1863 and 1869 remain.
- 2) The railroad plat calling the range line (3rd guide meridian) 110 feet West of a concrete pipe at station 1564+00 and the concrete pipe at station 1542+67.3 West of the range line. The total distance between these pipes are 2132.7 feet, our measure 4/21/03 being 2133.3 feet.

- 3) Bearings from G.P.S. positions on the East 1/4 to Section 12 to the closing corner to Sections 4 and 33 being $N0^{\circ}-14'-19''W$. Bearings from our traverse being $N0^{\circ}-14'-34''W$ from the East 1/4 to Section 12 to our position of the range line and center line of the railroad.
- 4) The fence line along the East side of the roadway North of the Willow River to the South right-of-way line of the railroad is very nearly 33 feet East of the range line. In discussing this roadway with Mrs. Sundberg (Smoky Hollow Town Clerk) the roadway was to provide access from the railroad to the sawmill located on the Willow River and was to be built in Section 28, Township 52 North, Range 27 West of the 4th Principal Meridian.

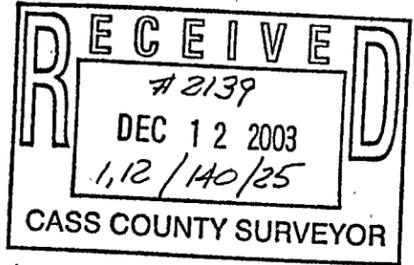
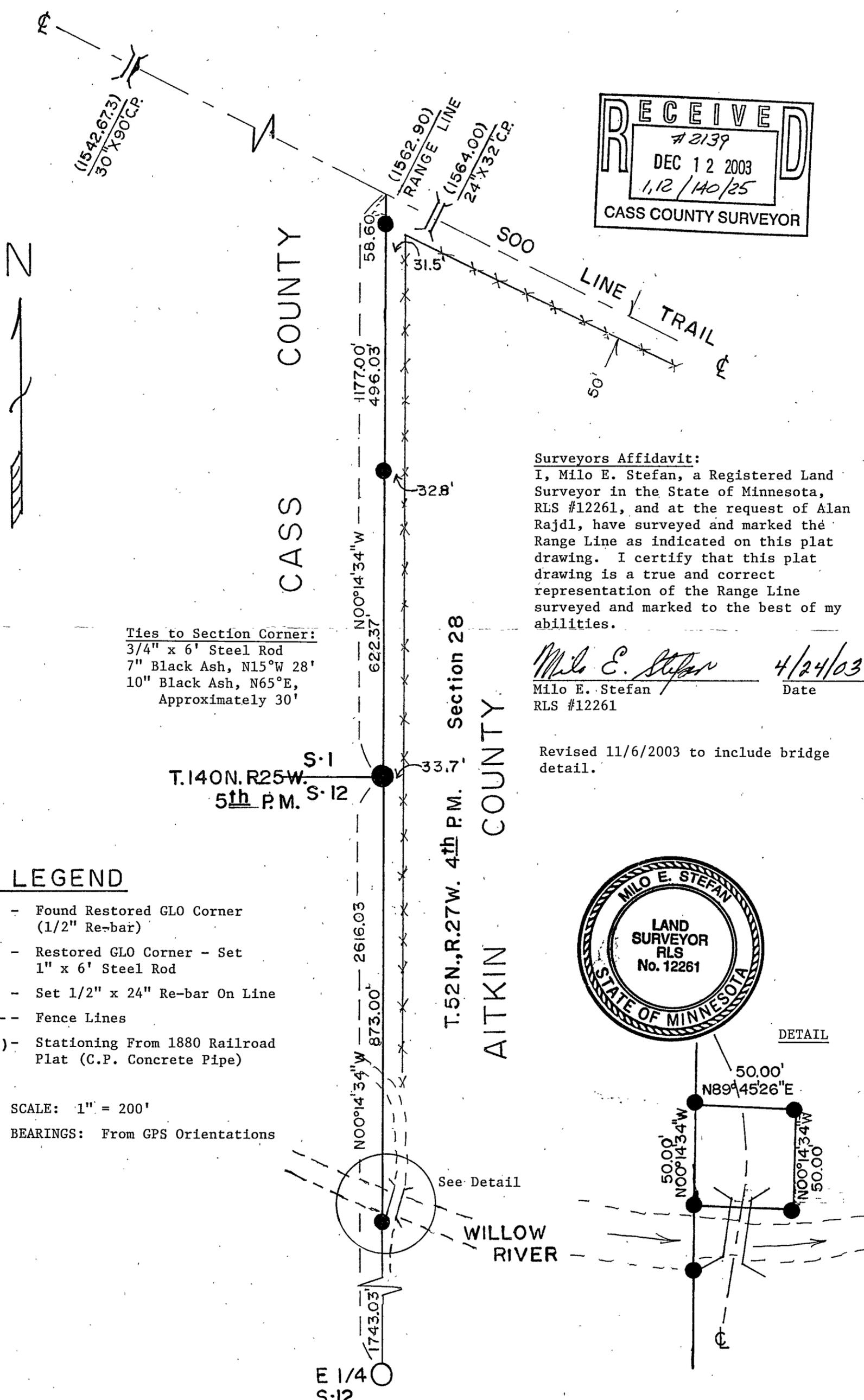
Conclusion

The Section Corner to Sections 1 and 12, T140N, R25W, 5th Principal Meridian is restored at the distance of 1177 feet South of the railroad center line and at a bearing from the East 1/4 of Section 12 and a point established on the railroad center line between the concrete pipes in the railroad grade.

Milo E. Stefan 4/24/03
MILO E. STEFAN
RLS #12261

CERTIFICATE of SURVEY

RESTORATION OF THE RANGE LINE COMMON TO TOWNSHIP 140 NORTH,
RANGE 25 WEST OF THE 5TH PRINCIPAL MERIDIAN AND TOWNSHIP 52
NORTH, RANGE 27 WEST OF THE 4TH PRINCIPAL MERIDIAN



Ties to Section Corner:
 3/4" x 6' Steel Rod
 7" Black Ash, N15°W 28'
 10" Black Ash, N65°E,
 Approximately 30'

Surveyors Affidavit:
 I, Milo E. Stefan, a Registered Land Surveyor in the State of Minnesota, RLS #12261, and at the request of Alan Rajdl, have surveyed and marked the Range Line as indicated on this plat drawing. I certify that this plat drawing is a true and correct representation of the Range Line surveyed and marked to the best of my abilities.

Milo E. Stefan 4/24/03
 Milo E. Stefan Date
 RLS #12261

Revised 11/6/2003 to include bridge detail.

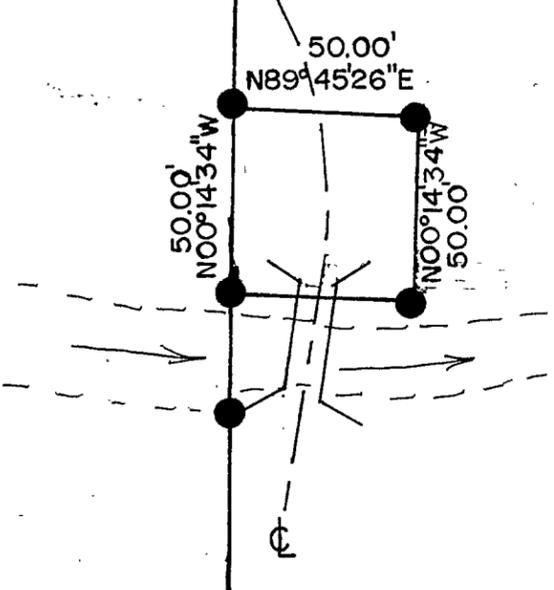
LEGEND

- - Found Restored GLO Corner (1/2" Re-bar)
- - Restored GLO Corner - Set 1" x 6' Steel Rod
- - Set 1/2" x 24" Re-bar On Line
- - Fence Lines
- (XXXXXX) - Stationing From 1880 Railroad Plat (C.P. Concrete Pipe)

SCALE: 1" = 200'
 BEARINGS: From GPS Orientations



DETAIL



E 1/4
S-12