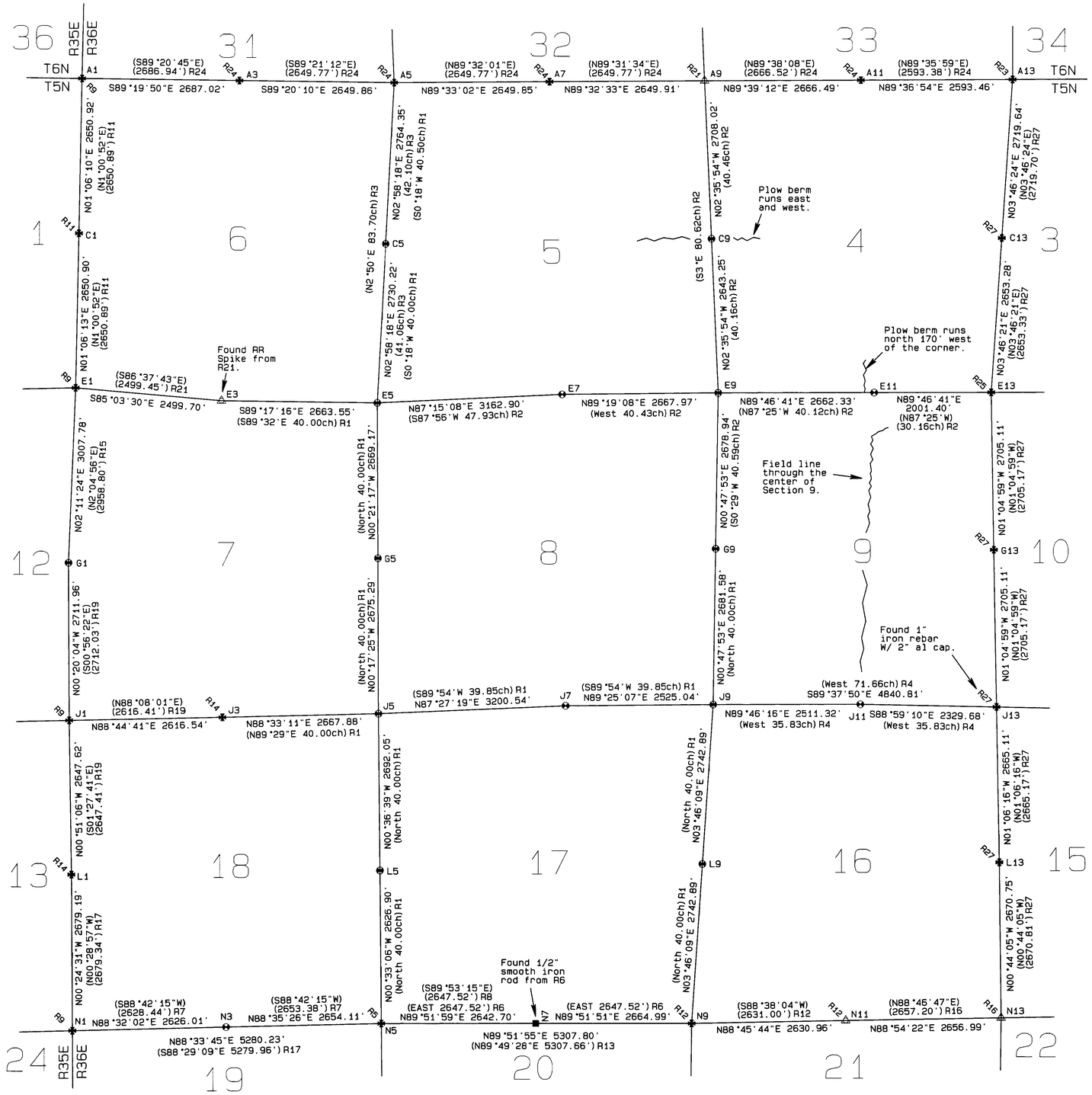
# A SURVEY OF THE NW1/4 OF TOWNSHIP 5 NORTH, RANGE 36 EAST WILLAMETTE MERIDIAN, UMATILLA COUNTY, STATE OF OREGON




## RECORD SURVEYS

| | |
|---|---|
| R1 | GLO CONTRACT #110 DATED FEBRUARY 7, 1865 BY DEPUTY SURVEYORS ODELL AND LEWIS |
| R2 | RECORD OF PRIVATE SURVEYS BOOK 1, PAGE 393, #100 |
| R3 | RECORD OF PRIVATE SURVEYS BOOK 1, PAGE 402, #104 |
| R4 | RECORD OF PRIVATE SURVEYS BOOK 1, PAGE 404, #105 |
| R5 | COUNTY SURVEY G-1-Ax |
| R6 | COUNTY SURVEY Q-809-B |
| R7 | COUNTY SURVEY Q-1337-C |
| R8 | COUNTY SURVEY Q-1361-B |
| R9 | COUNTY SURVEY S-157-C |
| R10 | COUNTY SURVEY 82-117-A |
| R11 | COUNTY SURVEY 84-90-C |
| R12 | COUNTY SURVEY 85-62-A |
| R13 | COUNTY SURVEY 88-14-A |
| R14 | COUNTY SURVEY 91-65-B |
| R15 | COUNTY SURVEY 95-78-B |
| R16 | COUNTY SURVEY 96-152-C |
| R17 | COUNTY SURVEY 99-12-C |
| R18 | COUNTY SURVEY 00-45-B |
| R19 | COUNTY SURVEY 01-155-B |
| R20 | COUNTY SURVEY 01-163-B |
| R21 | COUNTY SURVEY 05-51-C |
| R22 | COUNTY SURVEY 07-94-A |
| R23 | COUNTY SURVEY 08-39-C |
| R24 | COUNTY SURVEY 09-10-C |
| R25 | COUNTY SURVEY 09-44-B |
| R26 | COUNTY SURVEY 12-03-C |
| R27 | COUNTY SURVEY 12-88-C |

## STATE PLANE COORDINATE LISTING

| CORNER | NORTHING | EASTING |
|---|---|---|
| A1 | 838707.42 | 8743457.81 |
| A3 | 838749.67 | 8746144.29 |
| A5 | 838791.58 | 8748793.61 |
| A7 | 838884.96 | 8751441.60 |
| A9 | 838978.72 | 8754089.64 |
| A11 | 839067.90 | 8756754.42 |
| A13 | 839156.39 | 8759346.16 |
| C1 | 836056.80 | 8743479.44 |
| C5 | 836028.28 | 8748726.00 |
| C9 | 836278.08 | 8754286.47 |
| C13 | 836438.97 | 8759241.61 |
| E1 | 833406.20 | 8743501.03 |
| E3 | 833259.21 | 8745996.20 |
| E5 | 833299.09 | 8748659.23 |
| E7 | 833537.23 | 8751812.90 |
| E9 | 833642.03 | 8754478.59 |
| E11 | 833725.28 | 8757139.41 |
| E13 | 833787.87 | 8759139.66 |
| G1 | 830398.84 | 8743468.49 |
| G5 | 830631.65 | 8748748.89 |
| G9 | 830963.57 | 8754514.69 |
| G13 | 831085.87 | 8759264.87 |
| J1 | 827688.59 | 8743558.62 |
| J3 | 827817.57 | 8746171.77 |
| J5 | 827957.99 | 8748835.74 |
| J7 | 828187.64 | 8752027.78 |
| J9 | 828282.43 | 8754550.83 |
| J11 | 828361.26 | 8757060.71 |
| J13 | 828383.88 | 8759390.09 |
| L1 | 825043.55 | 8743670.50 |
| L5 | 825268.11 | 8748938.19 |
| L9 | 825541.78 | 8754445.59 |
| L13 | 825721.88 | 8759514.45 |
| N1 | 822366.17 | 8743763.01 |
| N3 | 822505.26 | 8746385.13 |
| N5 | 822643.22 | 8749035.44 |
| N7 | 822721.79 | 8751676.76 |
| N9 | 822801.13 | 8754340.36 |
| N11 | 822930.01 | 8756957.95 |
| N13 | 823053.50 | 8759621.86 |

## NARRATIVE OF SURVEY

This survey was performed at the request of the Umatilla County Surveyor, Mr. Dave Krumbein. The purpose of the survey was to re-establish and remonument the original GLO corner positions and provide NAD 83-1991 Oregon State Plane Coordinates on those positions. GPS observations to Tri Stations "Big Hill Reset" and "Pendleton" were adjusted by least squares to obtain the control for this survey.

As stated in survey 12-88-C, this township was originally surveyed by U.S. Deputy Surveyor William Lewis in 1865. The discrepancies in Mr. Lewis' work were first reported in a survey done in 1876 (in sections 4 and 9) by a Mr. Peter Zahner. (See the Record of Private Surveys Book 1, Page 397.) The survey by Mr. Zahner was examined in 1893 by the Umatilla County Surveyor, John Kimbrell who confirmed the discrepancies. Mr. Kimbrell reported finding and remonumenting several of the original corners in Sections 4, 5, 8 and 9. The current lines of occupation agree very well with the Kimbrell survey. In an effort to leave the errors where they occurred, I have held Kimbrell's record to re-establish the corners between Sections 4, 5, 8 and 9 in the following manner: I held the intersection of the field lines as the true location of the west and south 1/4 corners of Section 4. I then projected the west and south lines of Section 4 to a point of intersection to locate the southwest corner of Section 4. This location agreed with a north-south field road and with Kimbrell's distance for the south line of Section 5. I then computed the location of the west 1/4 corner of Section 9 on line between the found stone at the southwest corner of Section 9 and the northwest corner of Section 9 as just re-established using Kimbrell's record distance south of the corner to Sections 4, 5, 8, and 9. Lastly I computed the south 1/4 corner of Section 5 using the broken boundary method and Kimbrell's record data.

Survey 95-78-B calls for monuments at the center 1/4 corners of Sections 7 and 18. There is no record of the origin of these monuments. However, they indicate that there has been prior survey work done in these sections. The possessory lines in Sections 8, 17 and 18 appear to be using the found monumentation around these sections while that in the west half of Section 7 does not.

Survey 12-03-C reports setting a 5/8" rebar at the north 1/4 corner of Section 20. The soils at this location are very shallow and I did not find that monument. I did find the monument set by C.H. Storms in survey Q-809-B in good condition and firmly set in the bedrock. The survey by Storms was done in 1948 for Mable Harris. This resulted in a law suit (Harris -v- Harris) and a survey done by the County Surveyor, F.B. Hayes (Q-1361-B) in 1949. Mr. Hayes accepted the Storms survey and it appears that the law suit was settled holding both the 1/4 corner position and the location of the Walla Walla River from the 1949 survey by Hayes. Survey 12-03-C was apparently performed without knowledge of the law suit and prior surveys and has consequently established positions contridicting the former boundary establishments in the area. I have held the position by Storms as being the true location of the 1/4 corner.

This survey was performed using a Trimble R7/R8 RTK GPS system. For additional information concerning monumentation found and set, please consult the corner certificates filed herewith.

## BASIS OF BEARINGS

Bearings are based on GPS ties to Tri Stations Big Hill Reset and Pendleton. The grid bearings were rotated 1°34'13" clockwise to obtain the measured bearings reported on this map.

## GROUND DISTANCES

The measured distances reported on this map are ground distances and were obtained by applying a combined scale factor of 0.99991955 to the State Plane grid distances. The change in the distances shown along the east side of this map is due to the application of a different scale factor made necessary by the magnitude of the difference in elevation between the east and west ends of this township. See survey 12-88-C.

## LEGEND

- SET 2 1/4" BRASS CAP ON A 1 1/8" x 30" GALVANIZED IRON PIPE. SEE FILED CORNER CERTIFICATE
- SET A 5/8" x 24" IRON REBAR W/ A 1 1/8" ORANGE PLASTIC CAP STAMPED WTS AND 56295LS
- FOUND BRASS OR ALUMINUM CAP FROM THE RECORD SURVEY AS NOTED.
- FOUND 5/8" REBAR WITH PLASTIC OR ALUMINUM CAP UNLESS OTHERWISE NOTED

REGISTERED PROFESSIONAL LAND SURVEYOR

Stephen K. Haddock

OREGON JULY 9, 2001 STEPHEN K. HADDOCK 56295LS

RENEWS 6-30-13

RECEIVED BY
Umatilla County Surveyor
Date: 12/6/2012
Rec'd By: D. Rice
No.: 12-155-C

| SURVEY FOR | PROJECT DATE: 05-12 THROUGH 11-12 | |
|---|---|---|
| UMATILLA COUNTY SURVEYOR<br>MR. DAVID H. KRUMBEIN<br>3920 WESTGATE<br>PENDLETON, OR 97801 | Project No. 11-22 | SCALE: 1" = 1000' |
| LOCATION: NW1/4, T5N, R36E, W.M., UMATILLA COUNTY, OREGON | WITNESS TREE SURVEYING<br>Stephen K. Haddock, PLS<br>P.O. Box G<br>Pilot Rock, Oregon 97868<br>(541) 443-2922 | |