



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Area 1
P. O. Box 3861
Portland 8, Oregon

August 9, 1957

Wilford N. Haines
Drain, Oregon

Dear Mr. Haines:

Your problem in resurveying and partially subdividing secs. 26 and 35, in T. 22 S., R. 7 W., W.M., has required considerable study, hence the delay in answering your questions. The data furnished by you is satisfactorily complete.

We are sending herewith sketches of the two sections showing suggested procedures in making the subdivisions. Insofar as is possible, these conform to the lottings as shown on the plat of the Nicklin survey. However, our study of the situation has convinced us that the $\frac{1}{4}$ sec. cor. of secs. 26 and 27, and the $\frac{1}{4}$ sec. cor. of secs. 34 and 35, should each be restored as corners of maximum control, that is, as common corners to the sections on each side of the line. The plat of the Byars survey protracted the NW $\frac{1}{4}$ of sec. 26 and the SW $\frac{1}{4}$ of sec. 35 as surveyed and each containing 160 acres, and Byars set monuments on the ground for common $\frac{1}{4}$ sec. cors., which corners were used as corners of the subdivisions as shown on the Byars plat. The law states that these corners "shall be established as the proper corners of sections, or subdivisions of sections, which they were intended to designate". The plat of the Nicklin survey was an attempt to protect the previously returned areas, in which, among other improper procedures, separate $\frac{1}{4}$ sec. cors. of minimum control were protracted upon the plat, whereas Nicklin, though retracing the lines, made no attempt to establish such separate $\frac{1}{4}$ sec. cors. The SW $\frac{1}{4}$ of sec. 35 had already been patented when the Nicklin survey was executed, and the NW $\frac{1}{4}$ of sec. 26 was patented prior to the lots to the south of it, although after the Nicklin survey. It therefore seems necessary to us to honor the $\frac{1}{4}$ sec. cors. as they were set on the ground, in disregard of the method shown upon the plat of the Nicklin survey.

The plat of the Nicklin survey bases the lottings of the previously unsurveyed portions of sec. 26 and sec. 35 upon broken N. and S. centerlines, since the $\frac{1}{4}$ sec. cor. of secs. 26 and 35 was set by Nicklin at a point 40.00 chs. W. of the cor. of secs. 25, 26, 35, and 36. The center $\frac{1}{4}$ sec. cor. of each section cannot therefore be established at the intersection of straight lines run from opposite $\frac{1}{4}$ sec. cors. We have indicated on the sketches of the two sections the lengths of the E. $\frac{1}{2}$ and W. $\frac{1}{2}$ of each E. and W. centerline upon

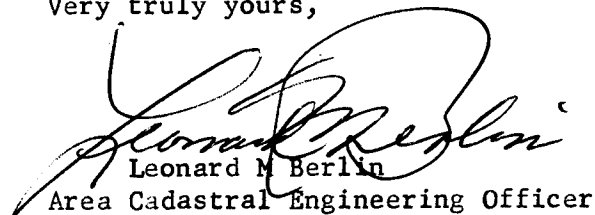
C. S. File No. 42/309

which to base the position of the center $\frac{1}{2}$ sec. cor. The E. and W. centerlines will be straight lines from $\frac{1}{2}$ sec. cor. to opposite $\frac{1}{2}$ sec. cor. Upon the establishment of the center $\frac{1}{2}$ sec. cor., the N. and S. centerline may be directly connected from this point to the $\frac{1}{2}$ sec. cors. on the respective N. and S. bdrs. of the section. The procedure is the same for each of the two sections.

We are returning your sketch with notations which we believe will be self-explanatory. Restorations of the $\frac{1}{2}$ sec. cor. of secs. 26 and 27, and the $\frac{1}{2}$ sec. cor. of secs. 34 and 35, are based upon the Nicklin retracement, and the establishment of the S. $\frac{1}{2}$ sec. cor. of sec. 35 is based upon the plat of the Nicklin survey. The cor. of secs. 27 and 34, on the W. bdy. of sec. 26, should be restored by three-point control, that is, at proportionate distance in latitude and at record distance in departure from the cor. of secs. 28, 29, 32, and 33. This indicates the true point for the closing cor. of secs. 26 and 35 to be 3 links west of the position of the original monument. The original position of the closing cor. is, of course, used in determining the position of the W. 1/16 sec. cor. of secs. 26 and 35.

The above suggestions are only advisory in nature, but constitute the methods which would probably be used by our Bureau in this instance were we making the survey. Should you have further questions we shall be glad to attempt to answer them, since this is a complicated and uncommon case, and more particularly since public lands are involved in each section.

Very truly yours,

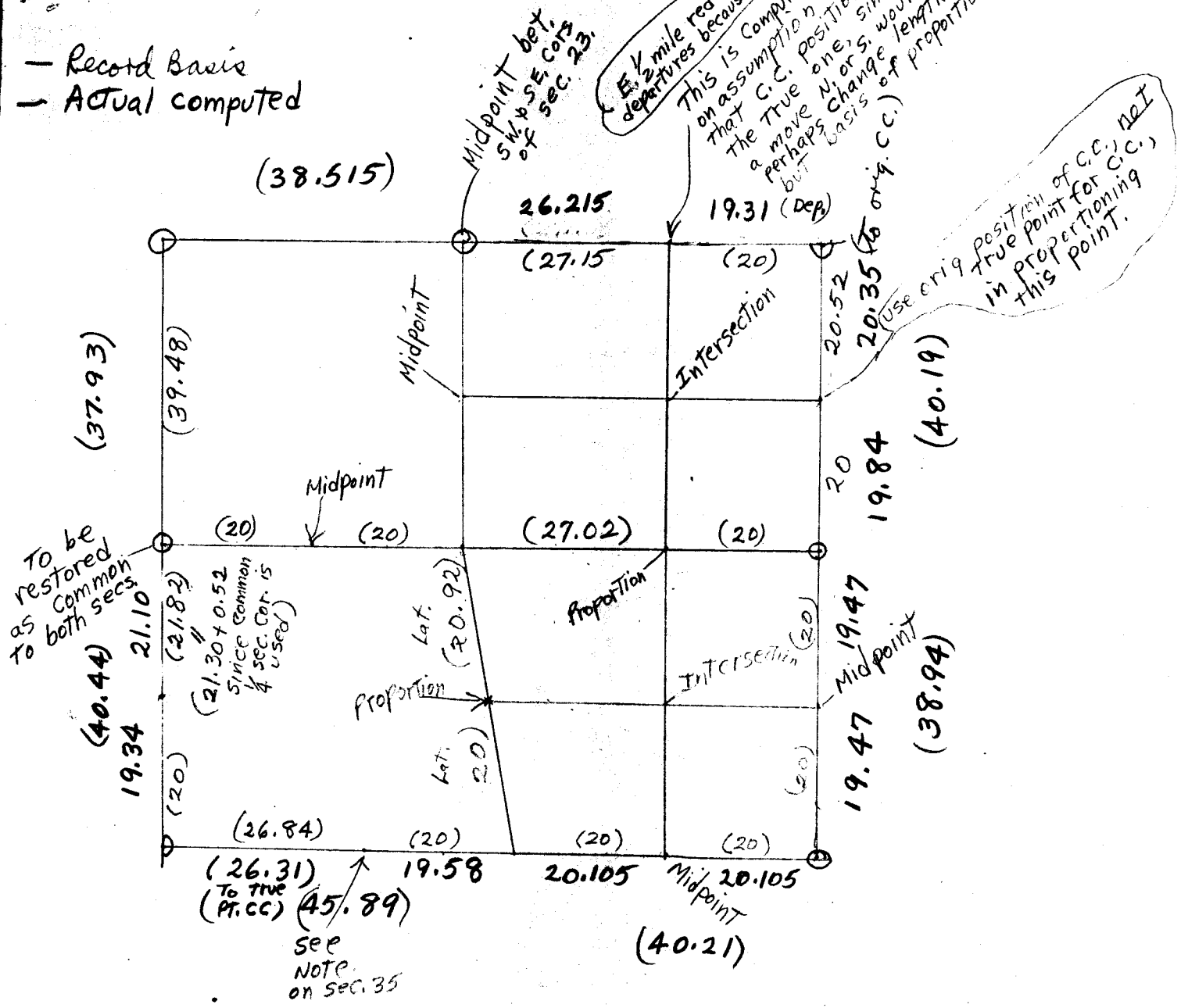

Leonard M. Berlin
Area Cadastral Engineering Officer

Attachments

C. S. File No. 42/309

Subdivision of Sec. 26

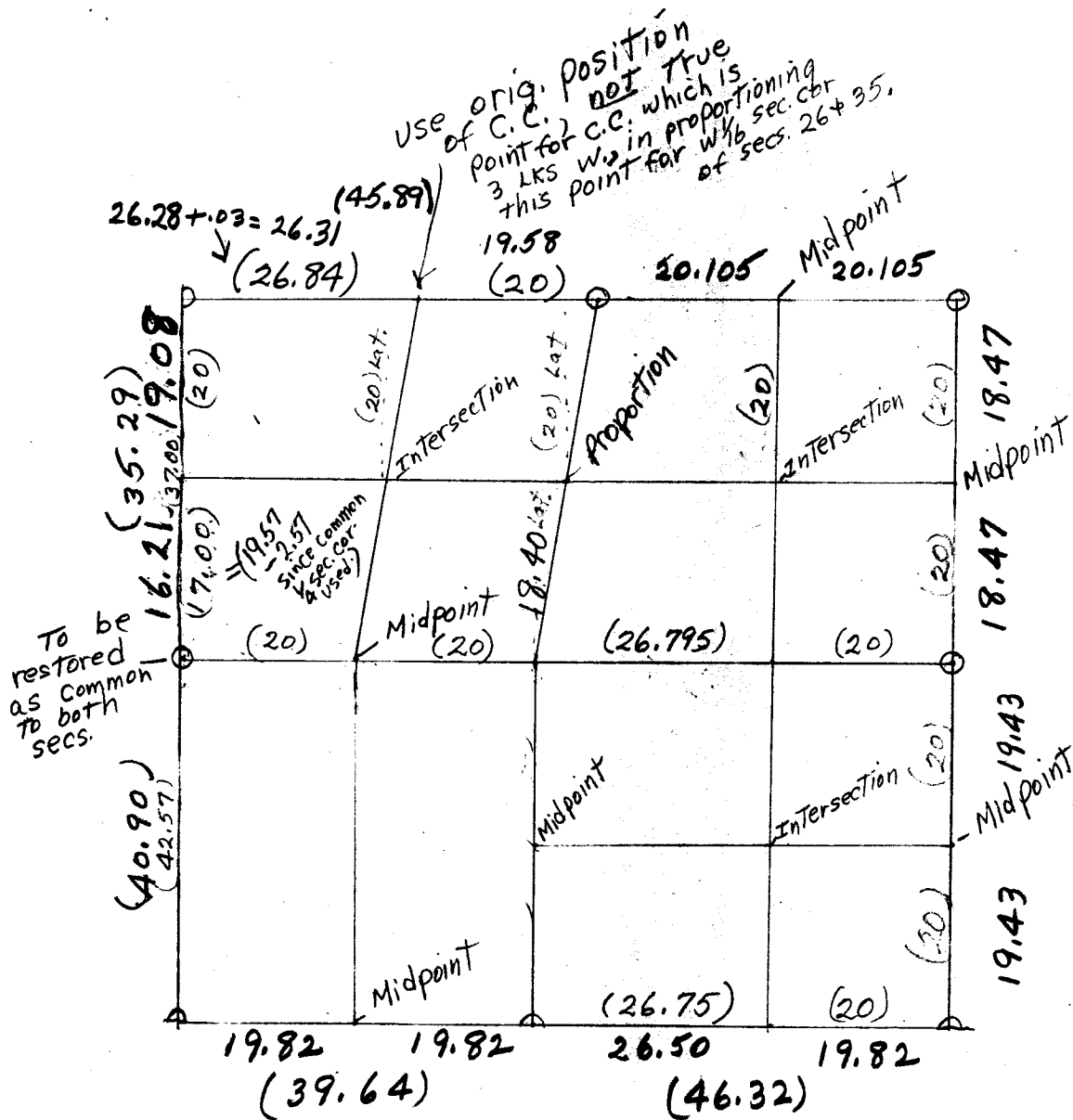
- Record Basis
- Actual computed



1. see sec. 35 (Same method)
2. Proportion $C \frac{1}{4}$ sec. cor. on basis of 40.00 chs. for W. $\frac{1}{2}$ mile and 47.02 E $\frac{1}{2}$ mile.
3. see sec. 35 (Same method)
4. see sec. 35 and basis shown on above sketch

Subdivision of sec. 35

- Record basis
- Actual/Computed



1. The E-W. center line should be run as a straight line bet. opposite $\frac{1}{4}$ sec. Cors.
2. The center $\frac{1}{4}$ sec. cor. in this case should be proportioned in on the basis of 86.795 chs. (the mean bet. record N. and S. bdrs. of section), 40 chs. basis of W. $\frac{1}{2}$ mile, 46.795 basis of E. $\frac{1}{2}$ mile.
3. The N.-S. center line in this case is a broken line; Run N. $\frac{1}{2}$ from $\frac{1}{4}$ sec. cor. of secs. 26 and 35 directly to center $\frac{1}{4}$ sec. cor. as already established. Run S. $\frac{1}{2}$ from $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 35 (which you will have established at prop. dist. bet. SE. and SW. cors. of sec. 35) directly to center $\frac{1}{4}$ sec. cor.
4. Establish $\frac{1}{6}$ sec. cors. as shown on above sketch, C. S. File No. 42/309

Proportions

Closing cor. of secs. 34 & 35

Record length of N. bdy. of sec. 3 = 80.00
Measured " " " " " " = 79.13

$$K = \frac{79.13}{80.00} = 0.9891250$$

Record Tie of C.C. = 6.75 chs. (by Nicklin)

$$K (6.75) = \underline{6.677} \text{ chs.} = \text{Proportionate Tie}$$

S. $\frac{1}{4}$ sec. Cor. of Sec. 35

Record length S. bdy. of sec. 35 = 86.75 (By Nicklin Plat)
" " E. $\frac{1}{2}$ " " " = 46.75
" " W. $\frac{1}{2}$ " " " = 40.00

Measured length of S. bdy. Sec. 35 = 85.96

$$K = \frac{85.96}{86.75} = 0.9908933$$

$$K (46.75) = \underline{46.324} \quad \text{Prop. E. } \frac{1}{2}$$

$$K (40.00) = \underline{39.636} \quad \text{Prop. W. } \frac{1}{2}$$

Cor. of Secs. 27 and 34, on W. bdy. Sec. 26

Record length E. bdy. sec. 34 = 83.31 (By Nicklin)
" " " " sec. 27 = 77.56 (" ")

Measured length of both $\frac{160.87}{154.56}$

$$K = \frac{154.56}{160.87} = 0.9607757$$

$$K (83.31) = \underline{80.04} \quad \text{Prop. E. bdy. sec. 34}$$

$$K (77.56) = \underline{74.52} \quad \text{" " " " sec. 27}$$

$$K (42.57) = \underline{40.90} \quad \text{" S. } \frac{1}{2} \text{ E. bdy. sec. 34}$$

$$K (40.74) = \underline{39.14} \quad \text{" N. } \frac{1}{2} \text{ " " " " " "}$$

$$K (38.08) = \underline{36.59} \quad \text{" S. } \frac{1}{2} \text{ " " " " 27}$$

$$K (39.48) = \underline{37.93} \quad \text{" N. } \frac{1}{2} \text{ " " " " 27}$$

Measured length W. bdy. sec. 35 = 76.19

$80.04 - 76.19 = \underline{3.85}$ dist. North from C.C. 26 & 35
to point for Cor. 27 & 34.

Record length S. bdrs. secs. 27 & 28 = 79.30 + 80.25 = 159.55 (By Byars)
Measured departure to C.C. 26 & 35 = 159.58
then true Pt. for $\frac{27}{34}$ is 0.03 W. of C.C., and True point
for C.C. is 0.03 W. of orig. C.C. 0