

Notes:  
All corners of property marked with a 1x2 stake.  
Plat lies in SW 1/4 of NW 1/4 of Sec. 22, T4N, R27EWM.

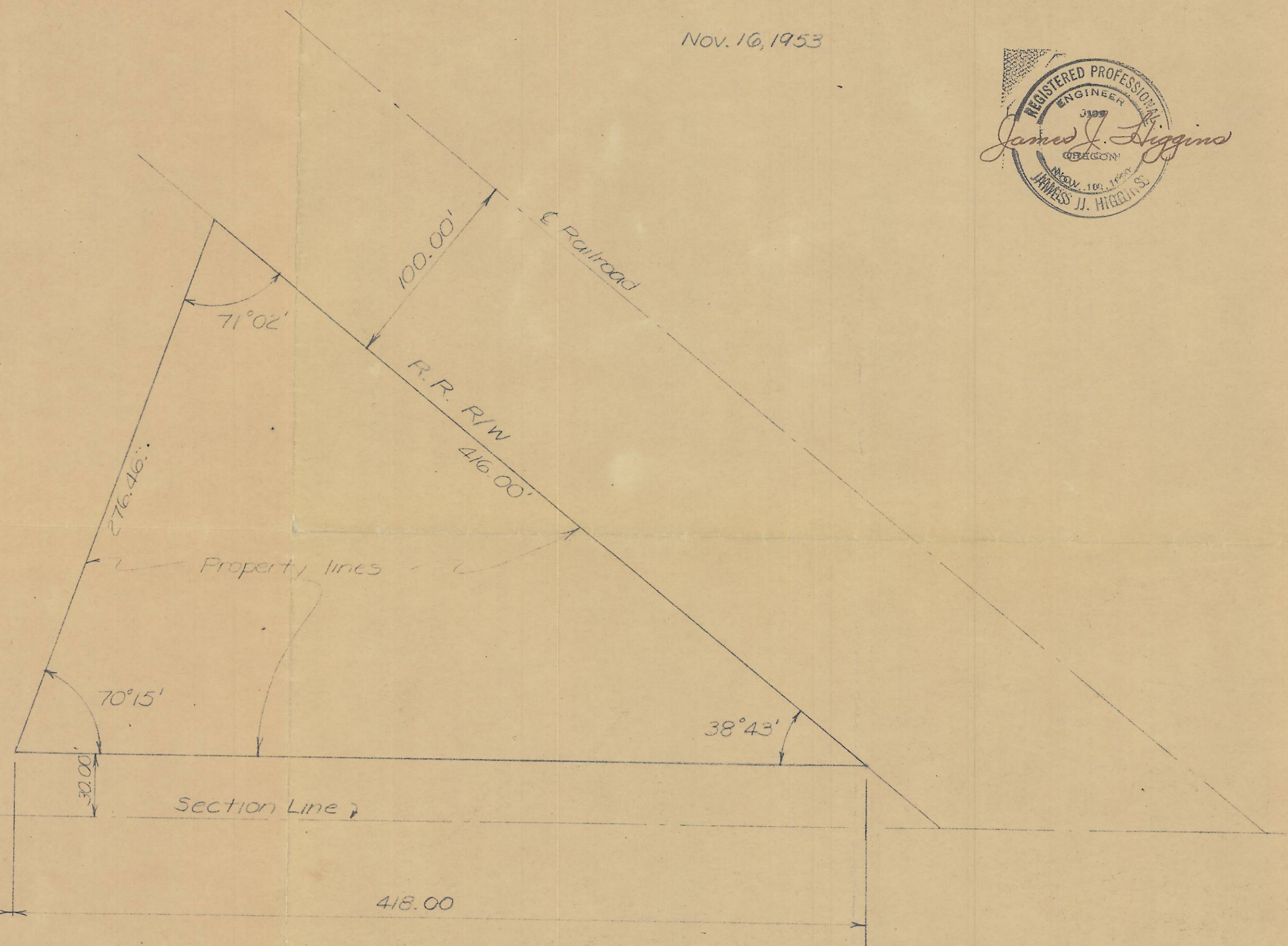
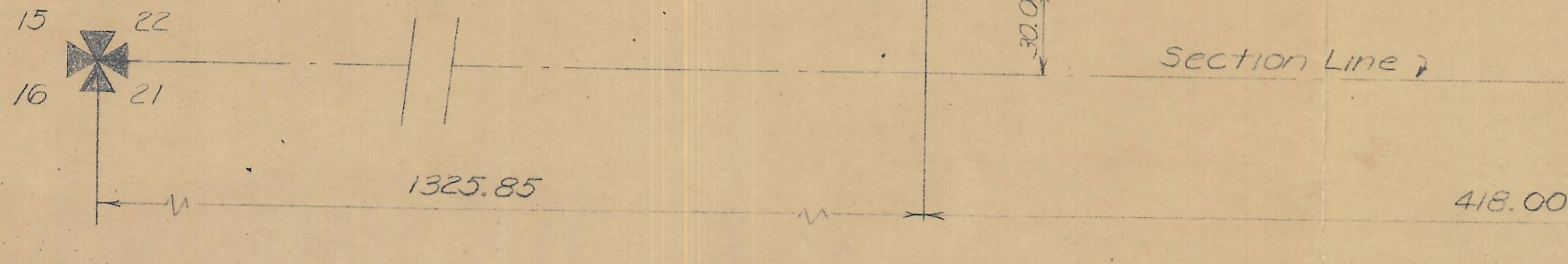
I certify that this drawing is taken  
from field notes and computations of  
an actual survey made by me.

Nov. 16, 1953



NORTH  
←

Section corner is R.R. spike  
in pavement of State Hwy. 207.



PROPOSED PLAT  
A.E. BENSEL PROPERTY  
HERMISTON, OREG.  
Scale: 1" = 50'

402822 Q-1334-B



Description of Survey Procedure for  
Plot of Land in NW  $\frac{1}{4}$ , Sec. 22, T4N, R28EWM

11 November 1953

Located NW corner of Sec. 22 (R.R. spike in road - State Hwy. 207), and located west  $\frac{1}{4}$  corner of Sec. 22. Intervening trees did not permit intervisibility between corner and  $\frac{1}{4}$  corner, so a point was selected from which both points could be seen, and was established on section line by working on to line with the transit.

Chaining was then begun southward from the section corner and two points "A" and "B" as shown in fig. 1 were set after first RR track at intersection with Sec. line had just begun a 1° curve but lacking precise data as to PC, curve was assumed to be tangent at this point.

Transit then set at point C, a random pt. on E of tangent segment. BS taken on E tangent segment, and line then extended to establish pt. D at Sta. 19+41.15 from Sec. Cor.

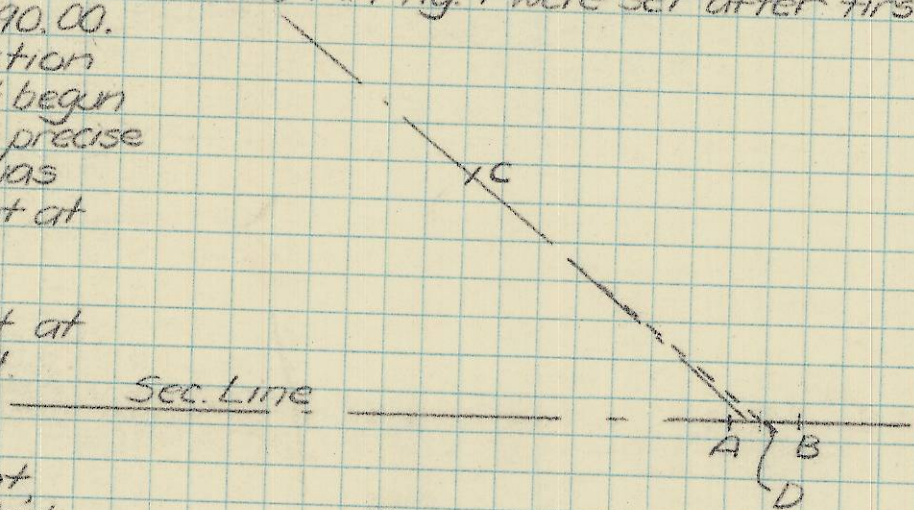


Fig. 1.

Transit set at pt D, BS @ C, and angle with section line measured 38°43'.

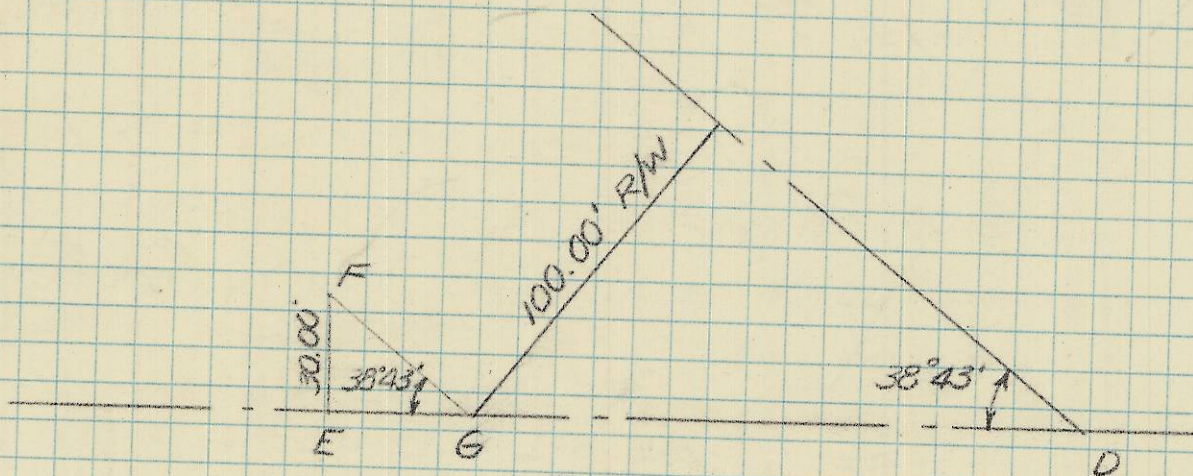


Fig. 2

To establish pt. F, the south corner of the lot, the distance DE was computed in the following manner:

$$DE = EG + DG$$



$$\begin{aligned}
 DE &= \frac{30.00}{\tan 38^\circ 43'} + \frac{100.00}{\sin 38^\circ 43'} \\
 &= \frac{30.00}{0.80163} + \frac{100.00}{0.62547} \\
 &= 37.42 + 159.88 = 197.30'
 \end{aligned}$$

Distance DE measured from D and pt. E established.

Set transit at E, BS on D, turned  $90^\circ 00'$ , measured  $30.00'$ , and set pt. F with a  $1 \times 2$  stake.

From pt. E measured toward section corner along 58 section line and set temporary pts at distances of ~~324.58~~ (pt. H) and  $418.00$  (pt. I) north of pt. E (see fig. 3)

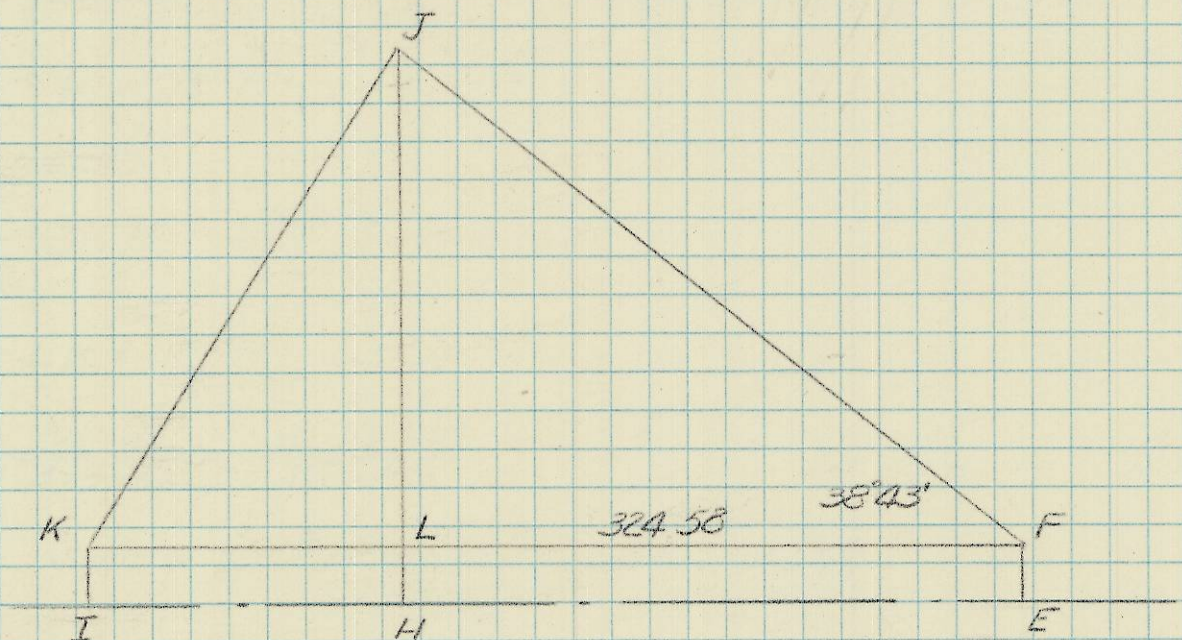


Fig. 3

Computed dist. JL as follows:

$$JL = 324.58 \tan 38^\circ 43' = (324.58)(0.80163) = 260.<sup>20</sup>~~58~~$$

Set transit at H, BS on E, turned  $90^\circ 00'$ , measured ~~290.58~~<sup>20</sup>, and set pt. J with a  $1 \times 2$  stake.

Set transit at I, BS on E, turned  $90^\circ 00'$ , measured  $30.00$ , and set pt. K with a  $1 \times 2$  stake.

Since J was visible from neither F nor K, remaining sides and angles computed as follows:

$$FJ = \sqrt{(JL)^2 + (LF)^2} = \sqrt{(260.20)^2 + (324.58)^2}$$



$$FJ = \sqrt{67,704.0400 + 105,352.1764} = \sqrt{173,056.2164}$$

$$= 416.00' \leftarrow$$

$$JK = \sqrt{(JL)^2 + (KL)^2} = \sqrt{(260.20)^2 + (93.42)^2}$$

$$= \sqrt{67,704.04 + 8,727.2964} = \sqrt{76,431.3364}$$

$$= 276.46' \leftarrow$$

By Law of Sines:

$$\frac{\sin K}{416.00} = \frac{\sin 38^\circ 43'}{276.46}$$

$$\sin K = \frac{(416.00)(0.62547)}{276.46} = 0.94116$$

$$\angle K = 70^\circ 15'$$

Check:

$$\tan K = \frac{260.20}{93.42} = 2.78527$$

$$\angle K = 70^\circ 15' \text{ (O.K.)}$$

$$\frac{\sin J}{418.00} = \frac{\sin 38^\circ 43'}{276.46}$$

$$\sin J = \frac{(418.00)(0.62547)}{276.46} = 0.94569$$

$$\angle J = 71^\circ 02' \leftarrow$$

Computation of Area:

$$A = \frac{(418.00)(260.20)}{(2)(43,560)} = \underline{1.25 \text{ acres}} \leftarrow$$