379

400

LEVEL

F.B.379

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*Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.*

| MINUTES. | LKS. | MINUTES. | LKS. | MINUTES. | LKS. |
|---|---|---|---|---|---|
| 1 | 2⅓ | 21 | 49 | 41 | 95⅔ |
| 2 | 4⅔ | 22 | 51⅓ | 42 | 98 |
| 3 | 7 | 23 | 53⅔ | 43 | 100⅓ |
| 4 | 9⅓ | 24 | 56 | 44 | 102⅔ |
| 5 | 11⅔ | 25 | 58⅓ | 45 | 105 |
| 6 | 14 | 26 | 60⅔ | 46 | 107⅓ |
| 7 | 16⅓ | 27 | 63 | 47 | 109⅔ |
| 8 | 18⅔ | 28 | 65⅓ | 48 | 112 |
| 9 | 21 | 29 | 67⅔ | 49 | 114⅓ |
| 10 | 23⅓ | 30 | 70 | 50 | 116⅔ |
| 11 | 25⅔ | 31 | 72⅓ | 51 | 119 |
| 12 | 28 | 32 | 74⅔ | 52 | 121⅓ |
| 13 | 30⅓ | 33 | 77 | 53 | 123⅔ |
| 14 | 32⅔ | 34 | 79⅓ | 54 | 126 |
| 15 | 35 | 35 | 81⅔ | 55 | 128⅓ |
| 16 | 37⅓ | 36 | 84 | 56 | 130⅓ |
| 17 | 39⅔ | 37 | 86⅓ | 57 | 133 |
| 18 | 42 | 38 | 88⅔ | 58 | 135⅓ |
| 19 | 44⅓ | 39 | 91 | 59 | 137⅔ |
| 20 | 46⅔ | 40 | 93⅓ | 60 | 140 |

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## TABLE FOR RUNNING ON SLOPES.

*In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.*

| ANGLE | COR. IN LINKS | ANGLE | COR. IN LINKS | ANGLE | COR. IN LINKS | ANGLE | COR. IN LINKS |
|---|---|---|---|---|---|---|---|
| ° | | ° | | ° | | ° | |
| 4 | 0.24 | 11 | 1.88 | 18 | 5.14 | 25 | 10.54 |
| 5 | 0.38 | 12 | 2.24 | 19 | 5.76 | 26 | 11.26 |
| 6 | 0.55 | 13 | 2.63 | 20 | 6.42 | 27 | 12.24 |
| 7 | 0.76 | 14 | 3.06 | 21 | 7.11 | 28 | 13.37 |
| 8 | 0.98 | 15 | 3.53 | 22 | 7.85 | 29 | 14.34 |
| 9 | 1.24 | 16 | 4.02 | 23 | 8.64 | 30 | 15.47 |
| 10 | 1.55 | 17 | 4.56 | 24 | 9.47 | 35 | 22.07 |

Crocker Quality

# LEVEL BOOK

No. 400

379

COMMUNI CONSENSU TRADE PRIMO MADE

MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO and SACRAMENTO

FROM Loring's Book Store

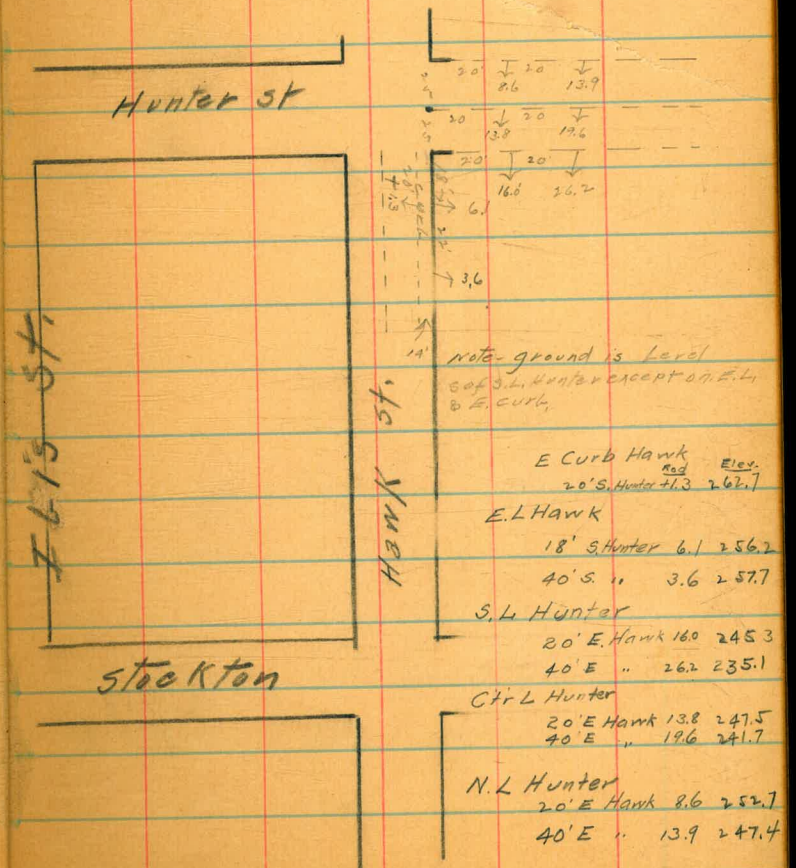
# Index


X-section Grape st Fern to 32nd Page 2
" " Spruce " Brant " Dore " 18
" "
" " 31st " Beech to Grape " 24
" " 17½ st "C" to Park Line 46

Levels for Toe of Slope Hunter & Hawk. 1/9/10 Dunkle Shaw

B.M. Nail S.E. cor Hawk & Hunter 253.40 Ground

B.M. 7.90 261.30




| | Rod | Elev. |
|---|---|---|
| E Curb Hawk | | |
| 20' S. Hunter | +1.3 | 262.7 |
| E.L Hawk | | |
| 18' S. Hunter | 6.1 | 256.2 |
| 40' S. " | 3.6 | 257.7 |
| S.L Hunter | | |
| 20' E. Hawk | 16.0 | 245.3 |
| 40' E " | 26.2 | 235.1 |
| Ctr L Hunter | | |
| 20' E Hawk | 13.8 | 247.5 |
| 40' E " | 19.6 | 241.7 |
| N.L Hunter | | |
| 20' E Hawk | 8.6 | 252.7 |
| 40' E " | 13.9 | 247.4 |

X-section Grade from E.L. Fern on N to 32nd 11/14/18 Dunkle
" 75' Fern to W.L. 31st 60' E.L. 31st to 32nd Shane
5' 1/4's Evans

B.M. S.E. 30th & Hawthorn 280.19

| | | | | |
|---|---|---|---|---|
| B.M. | 2.59 | 282.69 | | |
| T.P. | 3.48 | 276.71 | 9.46 | 273.23 |

E.L. Fern on N

| | | | | |
|---|---|---|---|---|
| N | | | 2.7 | 274.0 |
| Crb | | | 3.4 | 273.3 |
| 1/4 | | | 3.6 | 273.1 |
| M | | | 3.4 | 273.3 |
| 1/4 | | | 4.2 | 272.5 |
| Crb | | | 3.8 | 272.9 |
| S | | | 3.6 | 273.1 |

0+25 E

| | | | | |
|---|---|---|---|---|
| S | | | 4.4 | 272.3 |
| Crb | | | 4.7 | 272.0 |
| 1/4 | | | 4.3 | 272.4 |
| M | | | 4.2 | 272.5 |
| 1/4 | | | 3.4 | 273.3 |
| Crb | | | 3.3 | 273.4 |
| N | | | 4.1 | 272.6 |

0+49 = W.L. Fern on S. 60'

| | | | | |
|---|---|---|---|---|
| N | | | 4.4 | 272.3 |
| Crb | | | 3.4 | 273.3 |
| 1/4 | | | 3.7 | 273.0 |
| M | | | 4.5 | 272.2 |
| 1/4 | | | 5.7 | 271.0 |
| Crb | | | 5.3 | 271.4 |
| S | | | 5.9 | 270.8 |

W. Curb

| | | | | |
|---|---|---|---|---|
| S | | | 6.1 | 270.6 |
| Crb | | | 6.5 | 270.2 |
| 1/4 | | | 6.6 | 270.1 |
| M | | | 5.5 | 271.2 |
| 1/4 | | | 4.7 | 272.0 |
| Crb | | | 4.0 | 272.7 |
| N | | | 5.0 | 271.7 |

x-section Grade from E.L. Fern on N to 32nd 11/ Dunk 6

276.71

W 1/4

| | | |
|---|---|---|
| N | 5.2 | 271.5 |
| crb | 4.7 | 272.0 |
| 1/4 | 4.8 | 271.9 |
| M | 5.9 | 270.8 |
| 1/4 | 6.4 | 270.3 |
| crb | 6.7 | 270.0 |
| S | 6.9 | 269.8 |

Center

| | | |
|---|---|---|
| S | 6.9 | 269.8 |
| crb | 6.6 | 270.1 |
| 1/4 | 6.6 | 270.1 |
| M | 6.2 | 270.5 |
| 1/4 | 5.6 | 271.1 |
| crb | 5.3 | 271.4 |
| N | 5.0 | 271.7 |

276.71

E 1/4

| | | |
|---|---|---|
| N | 5.1 | 271.6 |
| crb | 5.6 | 271.1 |
| 1/4 | 5.7 | 271.0 |
| M | 6.4 | 270.3 |
| 1/4 | 6.8 | 270.4 |
| crb | 6.8 | 269.9 |
| S | 6.7 | 270.0 |

E Curb

| | | |
|---|---|---|
| S | 7.0 | 269.7 |
| crb | 7.1 | 269.6 |
| 1/4 | 7.0 | 269.7 |
| M | 6.5 | 270.2 |
| 1/4 | 5.9 | 270.8 |
| crb | 5.9 | 270.8 |
| N | 5.4 | 271.3 |

| | | | |
|---|---|---|---|
| | 276.71 | | |
| | E.L. Farm | | |
| N | 6.0 | 270.7 | |
| Crk | 6.3 | 270.4 | |
| 1/4 | 6.4 | 270.3 | |
| M | 6.7 | 270.0 | |
| 1/4 | 7.2 | 269.5 | |
| Crk | 7.3 | 269.4 | |
| S | 7.2 | 269.5 | |
| | 0+25 E | | |
| S | 7.3 | 269.4 | |
| Crk | 7.5 | 269.2 | |
| 1/4 | 7.4 | 269.3 | |
| M | 7.0 | 269.7 | |
| 1/4 | 6.6 | 270.1 | |
| Crk | 6.5 | 270.2 | |
| N | 6.3 | 270.4 | |

| | | | |
|---|---|---|---|
| | 0+50 | | |
| N | 6.3 | 270.4 | |
| Crk | 6.6 | 270.1 | |
| 1/4 | 6.6 | 270.1 | |
| M | 7.1 | 269.6 | |
| 1/4 | 7.4 | 269.3 | |
| Crk | 7.5 | 269.2 | |
| S | 7.5 | 269.2 | |
| | 0+75 | | |
| S | 7.5 | 269.2 | |
| Crk | 7.9 | 268.8 | |
| 1/4 | 7.8 | 268.9 | |
| M | 7.3 | 269.4 | |
| 1/4 | 7.0 | 269.7 | |
| Crk | 6.9 | 269.8 | |
| N | 6.6 | 270.1 | |

| | | | | |
|---|---|---|---|---|
| | | 276.71 | | |
| | | 170 | | |
| N. | | | 7.3 | 269.4 |
| Crk | | | 7.6 | 269.1 |
| 1/4 | | | 7.7 | 269.0 |
| M | | | 8.2 | 268.5 |
| 1/4 | | | 8.4 | 268.3 |
| Crk | | | 8.4 | 268.3 |
| S | | | 8.0 | 268.7 |
| | | 1775 | | |
| S. | | | 9.1 | 267.6 |
| Crk | | | 9.1 | 267.6 |
| 1/4 | | | 9.1 | 267.6 |
| M | | | 8.6 | 268.1 |
| 1/4 | | | 8.0 | 268.7 |
| Crk | | | 8.2 | 268.5 |
| N | | | 8.0 | 268.7 |

| | | | | |
|---|---|---|---|---|
| | | 1750 | | |
| ~ | | | 10.6 | 266.1 |
| Crk | | | 10.5 | 266.2 |
| 1/4 | | | 10.6 | 266.1 |
| M | | | 10.0 | 266.7 |
| 1/4 | | | 10.0 | 266.7 |
| Crk | | | 10.4 | 266.3 |
| S | | | 10.7 | 266.0 |
| T.R. | 122 | 265.47 | 12.46 | 264.25 |
| | | 1775 | | |
| S | | | 2.6 | 264.9 |
| Crk | | | 2.3 | 263.2 |
| 1/4 | | | 2.0 | 263.5 |
| M | | | 2.2 | 263.3 |
| 1/4 | | | 2.1 | 263.4 |
| Crk | | | 2.7 | 262.8 |
| N | | | 3.6 | 261.9 |

| | | | | |
|---|---|---|---|---|
| | | 265.47 | | |
| | | 270 | | |
| N | | | 9.4 | 256.1 |
| Crh | | | 8.6 | 256.9 |
| 1/4 | | | 8.3 | 257.2 |
| M | | | 6.7 | 259.3 |
| 1/4 | | | 6.8 | 258.7 |
| Crh | | | 6.3 | 259.2 |
| S | | | 6.9 | 258.6 |
| T.P. | 1.29 | 254.43 | 12.33 | 253.14 |
| | | 2725 | | |
| S | | | 2.8 | 257.1 |
| Crh | | | 3.3 | 251.1 |
| 1/4 | | | 5.0 | 249.4 |
| M | | | 3.9 | 250.5 |
| 1/4 | | | 5.5 | 248.9 |
| Crh | | | 5.9 | 248.5 |
| N | | | 7.3 | 247.1 |
| T.P. | 0.91 | 242.49 | 12.85 | 241.58 |

| | | | | |
|---|---|---|---|---|
| | | 242.49 | | |
| | | 250 | | |
| N | | | 6.1 | 236.4 |
| Crh | | | 5.3 | 237.2 |
| 1/4 | | | 5.1 | 237.4 |
| M | | | 4.5 | 238.0 |
| 1/4 | | | 6.4 | 236.1 |
| Crh | | | 6.6 | 235.9 |
| S | | | 6.6 | 235.9 |
| | | 2775 | | |
| S | | | 15.5 | 227.0 |
| Crh | | | 14.6 | 227.9 |
| 1/4 | | | 14.7 | 227.8 |
| M | | | 13.1 | 229.4 |
| 1/4 | | | 12.7 | 229.8 |
| Crh | | | 12.7 | 229.8 |
| N | | | 11.8 | 230.7 |

wrote — Levels for toe of slope would run on uniform grade with x-sections.

| | | | | |
|---|---|---|---|---|
| | | 242.49 | | |
| | | 3+0 | | |
| N | | | 8.4 | 234.1 |
| crb. | | | 9.5 | 233.0 |
| 1/4 | | | 10.0 | 232.5 |
| M | | | 11.1 | 231.4 |
| 1/4 | | | 11.6 | 230.9 |
| Crb | | | 11.6 | 230.9 |
| S | | | 12.2 | 230.3 |
| T. P. | 12.83 | 254.30 | 1.12 | 241.37 |
| | | 3+25 | | |
| S | | | 12.5 | 241.7 |
| crb | | | 12.1 | 242.1 |
| 1/4 | | | 12.3 | 241.9 |
| M | | | 10.6 | 243.6 |
| 1/4 | | | 10.3 | 243.9 |
| Crb | | | 9.9 | 244.3 |
| N | | | 7.9 | 246.3 |
| T. P. | 12.34 | 266.52 | 0.07 | 254.18 |



| | | | | |
|---|---|---|---|---|
| | | 266.52 | | |
| | | 3+50 | | |
| N | | | 8.8 | 257.7 |
| crb | | | 10.8 | 255.7 |
| 1/4 | | | 11.2 | 255.3 |
| M | | | 12.5 | 254.0 |
| 1/4 | | | 12.8 | 253.7 |
| Crb | | | 12.7 | 253.8 |
| S | | | 13.4 | 253.1 |
| | | 3+75 | | |
| S | | | 3.7 | 262.8 |
| Crb | | | 2.6 | 263.9 |
| 1/4 | | | 3.1 | 263.4 |
| M | | | 2.9 | 263.6 |
| 1/4 | | | 1.6 | 264.9 |
| Crb | | | 4.3 | 263.2 |
| N | | | 0.4 | 266.1 |
| T. P. | 9.24 | 275.07 | 0.69 | 265.83 |

275.07

4+0

| | | | | |
|---|---|---|---|---|
| N | | | 6.2 | 268.9 |
| crb | | | 6.5 | 268.6 |
| 1/4 | | | 6.8 | 268.3 |
| M | | | 6.3 | 268.8 |
| 1/4 | | | 6.4 | 268.7 |
| crb | | | 6.6 | 268.5 |
| S | | | 7.5 | 267.6 |

4+25

| | | | | |
|---|---|---|---|---|
| S | | | 6.2 | 268.9 |
| crb | | | 6.2 | 268.9 |
| 1/4 | | | 6.1 | 269.0 |
| M | | | 5.7 | 269.4 |
| 1/4 | | | 5.1 | 270.0 |
| crb | | | 5.0 | 270.1 |
| N | | | 4.5 | 270.6 |

275.07

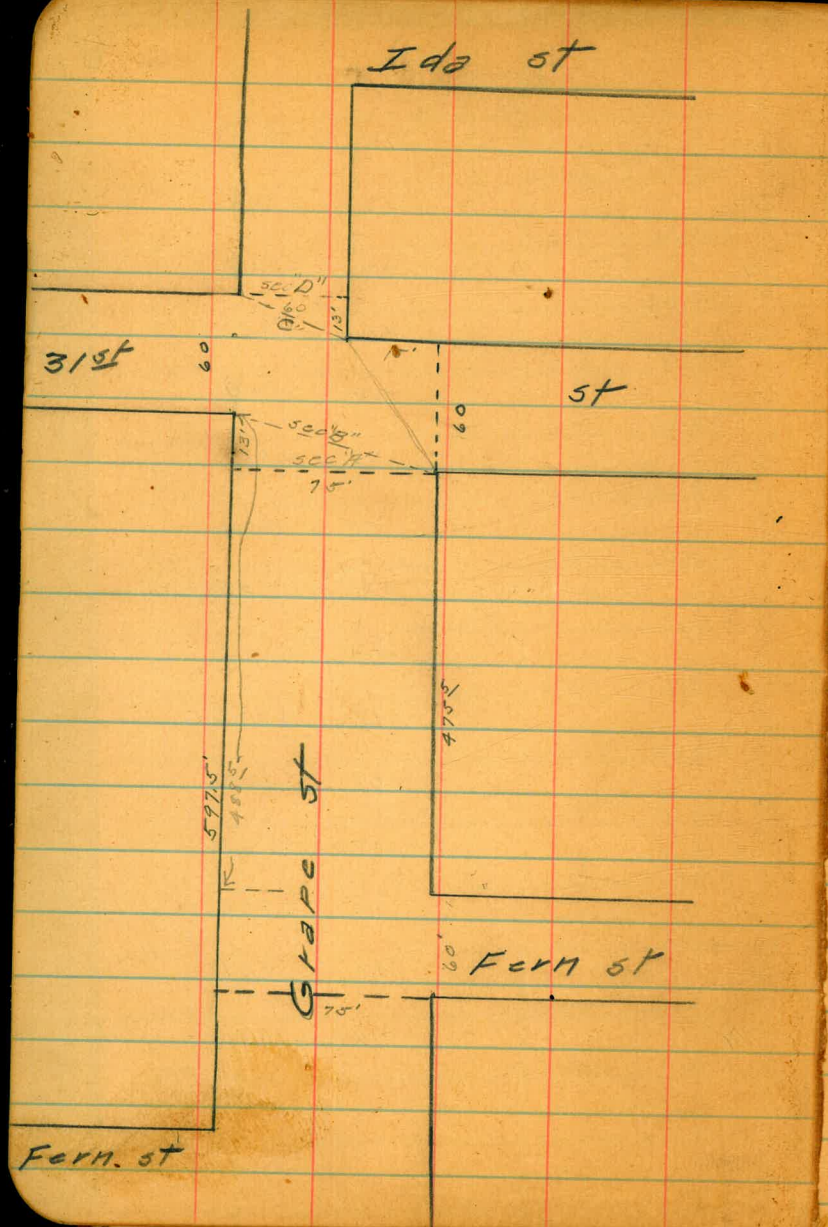


4+50

| | | | | |
|---|---|---|---|---|
| N | | | 4.0 | 271.1 |
| crb | | | 4.3 | 270.8 |
| 1/4 | | | 4.4 | 270.7 |
| M | | | 4.8 | 270.3 |
| 1/4 | | | 5.2 | 269.9 |
| crb | | | 5.2 | 269.9 |
| S | | | 5.5 | 269.6 |

4+75 S W.L. 31st on S = sec "A"

| | | | | |
|---|---|---|---|---|
| S | | | 5.4 | 269.7 |
| crb | | | 4.8 | 270.3 |
| 1/4 | | | 4.8 | 270.3 |
| M | | | 4.5 | 270.6 |
| 1/4 | | | 4.0 | 271.1 |
| crb | | | 4.0 | 271.1 |
| N | | | 3.6 | 271.5 |




275.07



4+75.5 on S & 4+88.5 on N = W.L. 31st = sec "B"

| | | |
|---|---|---|
| N | 3.5 | 271.6 |
| Crb | 3.5 | 271.6 |
| 1/4 | 3.8 | 271.3 |
| M | 4.4 | 270.7 |
| 1/4 | 4.9 | 270.2 |
| Crb | 4.9 | 270.2 |
| S | 5.4 | 269.7 |
| W. Corb | | |
| S | 5.3 | 269.8 |
| Crb | 5.0 | 270.1 |
| 1/4 | 4.8 | 270.3 |
| M | 4.3 | 270.8 |
| 1/4 | 3.8 | 271.3 |
| Crb | 3.6 | 271.5 |
| N | 3.4 | 271.7 |

275.07

W ½

| | | |
|---|---|---|
| N | 3.4 | 271.7 |
| Crk | 3.6 | 271.5 |
| ¼ | 3.7 | 271.4 |
| M | 4.3 | 270.8 |
| ¼ | 4.9 | 270.2 |
| Crk | 5.0 | 270.1 |
| S | 5.3 | 269.8 |

Center

| | | |
|---|---|---|
| S | 5.2 | 269.9 |
| Crk | 4.8 | 270.3 |
| ¼ | 4.7 | 270.4 |
| M | 4.2 | 270.9 |
| ¼ | 3.7 | 271.4 |
| Crk | 3.6 | 271.5 |
| N | 3.4 | 271.7 |

275.07

E ½

| | | |
|---|---|---|
| N | 3.3 | 271.8 |
| Crk | 3.6 | 271.5 |
| ¼ | 3.7 | 271.4 |
| M | 4.3 | 270.8 |
| ¼ | 4.9 | 270.2 |
| Crk | 5.0 | 270.1 |
| S | 5.1 | 270.0 |

E. Crk

| | | |
|---|---|---|
| S | 5.3 | 269.8 |
| Crk | 4.8 | 270.3 |
| ¼ | 5.0 | 270.1 |
| M | 4.3 | 270.8 |
| ¼ | 3.7 | 271.4 |
| Crk | 3.5 | 271.6 |
| N | 3.2 | 271.9 |

275.07

E.L. = Sec "C"

| | | |
|---|---|---|
| N | 3.5 | 271.6 |
| Crk | 3.6 | 271.5 |
| "4 | 3.8 | 271.3 |
| M | 4.4 | 270.7 |
| "4 | 4.8 | 270.3 |
| Crk | 4.9 | 270.2 |
| S | 5.2 | 269.9 |

Sec "D" = E.L. 31 ± on N

| | | |
|---|---|---|
| S | 5.2 | 269.9 |
| Crk | 4.8 | 270.3 |
| "4 | 4.8 | 270.3 |
| M | 4.3 | 270.8 |
| "4 | 3.8 | 271.3 |
| Crk | 3.6 | 271.5 |
| N | 3.5 | 271.6 |

0+25 E

| | | |
|---|---|---|
| N | 3.1 | 272.0 |
| Crk | 3.3 | 271.8 |
| "4 | 3.6 | 271.5 |
| M | 4.3 | 270.8 |
| "4 | 4.9 | 270.2 |
| Crk | 5.2 | 269.9 |
| S | 5.3 | 269.8 |

0+50

| | | |
|---|---|---|
| S | 4.8 | 270.3 |
| Crk | 4.2 | 270.9 |
| "4 | 4.2 | 270.9 |
| M | 3.7 | 271.4 |
| "4 | 3.4 | 271.7 |
| Crk | 3.3 | 271.8 |
| N | 3.0 | 272.1 |

| | | | | |
|---|---|---|---|---|
| | 275.07 | | | |
| | 0+75 | | | |
| N | | 2.0 | 273.1 | |
| Crk | | 2.3 | 272.8 | |
| 1/4 | | 2.7 | 272.4 | |
| M | | 3.6 | 271.5 | |
| 1/4 | | 4.1 | 271.0 | |
| Crk | | 4.3 | 270.8 | |
| S | | 4.8 | 270.3 | |
| | 1+00 | | | |
| S | | 4.2 | 270.9 | |
| Crk | | 3.9 | 271.2 | |
| 1/4 | | 3.6 | 271.5 | |
| M | | 2.8 | 272.3 | |
| 1/4 | | 2.5 | 272.6 | |
| Crk | | 2.1 | 273.0 | |
| N | | 1.8 | 273.3 | |

| | | | | |
|---|---|---|---|---|
| | | 1+25 | | |
| N | | 1.0 | 274.1 | |
| Crk | | 1.5 | 273.6 | |
| 1/4 | | 1.8 | 273.3 | |
| M | | 2.4 | 272.7 | |
| 1/4 | | 3.1 | 272.0 | |
| Crk | | 3.4 | 271.7 | |
| S | | 3.7 | 271.4 | |
| | | 1+50 | | |
| S | | 3.2 | 271.9 | |
| Crk | | 2.8 | 272.3 | |
| 1/4 | | 2.5 | 272.6 | |
| M | | 1.7 | 273.4 | |
| 1/4 | | 1.0 | 274.1 | |
| Crk | | 0.7 | 274.4 | |
| N | | 0.6 | 274.5 | |
| TP | 8.12 | 282.67 | 0.57 | 274.55 |

282.67

1+75

| | | |
|---|---|---|
| N | 7.6 | 275.1 |
| Crk | 8.0 | 274.7 |
| W | 8.2 | 274.5 |
| N | 8.7 | 274.0 |
| W | 9.4 | 273.3 |
| Crk | 9.6 | 273.1 |
| S | 10.0 | 272.7 |

2+00

| | | |
|---|---|---|
| S | 9.0 | 273.7 |
| Crk | 9.0 | 273.7 |
| W | 8.8 | 273.9 |
| N | 8.3 | 274.4 |
| W | 7.7 | 275.0 |
| Crk | 7.1 | 275.6 |
| N | 6.8 | 275.9 |

2+27 E of sec "D" = W.L. Ida St 60'

| | | |
|---|---|---|
| N | 6.7 | 276.0 |
| Crk | 7.0 | 275.7 |
| W | 7.4 | 274.3 |
| N | 7.5 | 275.2 |
| W | 8.1 | 274.6 |
| Crk | 8.1 | 274.6 |
| O | 8.6 | 274.1 |

W. Curb

| | | |
|---|---|---|
| S | 8.2 | 274.5 |
| Crk | 8.0 | 274.7 |
| W | 7.7 | 275.0 |
| N | 7.2 | 275.5 |
| W | 7.0 | 275.7 |
| Crk | 6.9 | 275.8 |
| N | 6.4 | 276.3 |

282.67

W "A"

| | | |
|---|---|---|
| N | 6.5 | 276.2 |
| Crb | 6.6 | 276.1 |
| "A | 6.9 | 275.8 |
| M | 7.0 | 275.7 |
| "A | 7.6 | 275.1 |
| Crb | 7.7 | 275.0 |
| S | 8.0 | 274.7 |

Center

| | | |
|---|---|---|
| S | 7.3 | 275.4 |
| Crb | 7.2 | 275.5 |
| "A | 7.0 | 275.7 |
| M | 6.3 | 276.4 |
| "A | 6.5 | 276.2 |
| Crb | 6.1 | 276.6 |
| N | 5.7 | 277.0 |

E "A

| | | |
|---|---|---|
| N | 5.3 | 277.4 |
| Crb | 6.0 | 276.7 |
| "A | 6.3 | 276.4 |
| M | 6.8 | 276.4 |
| "A | 6.9 | 275.8 |
| Crb | 7.1 | 275.6 |
| S | 7.3 | 275.4 |

E Curb

| | | |
|---|---|---|
| S | 6.8 | 275.9 |
| Crb | 6.9 | 275.8 |
| "A | 6.9 | 275.8 |
| M | 6.2 | 276.5 |
| "A | 6.1 | 276.6 |
| Crb | 5.8 | 276.9 |
| N | 5.2 | 277.5 |

282.67

E.L. Ida

| | | | |
|---|---|---|---|
| N | | 5.4 | 277.3 |
| Crk | | 5.4 | 277.3 |
| "A | | 5.7 | 277.0 |
| M | | 6.0 | 276.7 |
| "A | | 6.8 | 275.9 |
| Crk | | 6.3 | 276.4 |
| S | | 6.5 | 276.2 |

0+25 E

| | | | |
|---|---|---|---|
| S | | 6.1 | 276.6 |
| Crk | | 6.0 | 276.7 |
| "A | | 6.0 | 276.7 |
| M | | 5.6 | 277.1 |
| "A | | 5.6 | 277.2 |
| Crk | | 5.3 | 277.4 |
| N | | 5.2 | 277.5 |

282.67

0+50

| | | | |
|---|---|---|---|
| N | | 4.7 | 278.0 |
| Crk | | 4.9 | 277.8 |
| "A | | 5.3 | 277.4 |
| M | | 5.2 | 277.5 |
| "A | | 5.7 | 277.0 |
| Crk | 1 | 5.6 | 277.1 |
| S | | 5.7 | 277.0 |

0+75

| | | | |
|---|---|---|---|
| S | | 5.7 | 277.0 |
| Crk | | 5.3 | 277.4 |
| "A | | 5.6 | 277.1 |
| M | | 5.1 | 277.6 |
| "A | | 5.1 | 277.6 |
| Crk | | 4.8 | 277.9 |
| N | | 4.9 | 278.3 |

282.67

| | | |
|---|---|---|
| 1+00 | | |
| N | 4.3 | 278.4 |
| Crb | 4.3 | 278.4 |
| 1/4 | 4.6 | 278.1 |
| M | 4.7 | 278.0 |
| 1/4 | 5.4 | 277.3 |
| Crb | 5.4 | 277.3 |
| S | 5.7 | 277.0 |
| 1+25 | | |
| S | 5.2 | 277.5 |
| Crb | 5.0 | 277.7 |
| 1/4 | 5.0 | 277.7 |
| M | 4.5 | 278.2 |
| 1/4 | 4.5 | 278.2 |
| Crb | 4.3 | 278.4 |
| N | 4.2 | 278.5 |

| | | |
|---|---|---|
| 1+50 | | |
| N | 3.9 | 37.8.8 |
| Crb | 3.9 | 2788 |
| 1/4 | 4.0 | 2787 |
| M | 4.1 | 278.6 |
| 1/4 | 4.6 | 278.1 |
| Crb | 4.7 | 278.0 |
| S | 4.7 | 278.0 |
| 1+75 | | |
| S | 4.3 | 278.4 |
| Crb | 4.3 | 2784 |
| 1/4 | 4.1 | 2786 |
| M | 3.6 | 279.1 |
| 1/4 | 3.6 | 279.1 |
| Crb | 3.5 | 2792 |
| N | 3.3 | 279.4 |

| | | | |
|---|---|---|---|
| | 282.67 | | |
| | 270 | | |
| N | | 2.7 | 280.0 |
| Crk | | 2.8 | 279.9 |
| W | | 3.1 | 279.6 |
| M | | 3.1 | 279.6 |
| W | | 3.7 | 279.0 |
| Crk | | 3.7 | 279.0 |
| S | | 3.6 | 279.1 |
| | 275 | | |
| S | | 3.5 | 279.2 |
| Crk | | 3.4 | 279.3 |
| W | | 3.4 | 279.3 |
| M | | 3.0 | 279.7 |
| W | | 3.0 | 279.7 |
| Crk | | 2.8 | 279.9 |
| N | | 2.7 | 280.0 |

| | | | |
|---|---|---|---|
| | 265 = W.L. 82 29 St | | |
| N | | 2.6 | 280.1 |
| Crk | | 2.8 | 279.9 |
| W | | 2.9 | 279.8 |
| M | | 2.8 | 279.9 |
| W | | 3.3 | 279.4 |
| Crk | | 3.3 | 279.4 |
| S | | 3.3 | 279.4 |

X-section Spruce St from W.L. Brant to E.L. Dore
" " 80' wide 13' 1/4's

2-28-11
Drinkle
~~Shaw~~
Tichenor

B.M. brass plg 1st & Walnut, 250.90

| | | | | |
|---|---|---|---|---|
| B.M. | 0.70 | 251.60 | | |
| T.P. | 4.39 | 248.57 | 7.42 | 244.18 |
| T.P. | 1.12 | 237.01 | 12.68 | 235.89 |

W.L. Brant

| | | | | |
|---|---|---|---|---|
| N | | | 9.5 | 227.5 |
| crb | | | 11.1 | 225.9 |
| 1/4 | | | 11.3 | 225.7 |
| M | | | 11.6 | 225.4 |
| 1/4 | | | 11.7 | 225.3 |
| crb | | | 11.5 | 225.5 |
| S | | | 11.0 | 226.0 |

0+25 W

| | | | | |
|---|---|---|---|---|
| S | | | 8.3 | 228.7 |
| crb | | | 9.0 | 228.0 |
| 1/4 | | | 9.8 | 227.2 |
| M | | | 10.4 | 226.6 |
| 1/4 | | | 10.1 | 226.9 |
| crb | | | 9.0 | 228.0 |
| N | | | 6.8 | 230.2 |

| | | | | |
|---|---|---|---|---|
| | | 227.01 | | |

0+50

| | | | | |
|---|---|---|---|---|
| N | | | 3.1 | 233.9 |
| crb | | | 4.8 | 232.2 |
| 1/4 | | | 5.4 | 231.6 |
| M | | | 5.7 | 231.3 |
| 1/4 | | | 5.9 | 231.1 |
| crb | | | 6.2 | 230.8 |
| S | | | 5.8 | 231.2 |
| T.P. | 9.24 | 241.61 | 4.64 | 232.37 |

0+75

| | | | | |
|---|---|---|---|---|
| S | | | 9.1 | 232.5 |
| crb | | | 9.0 | 232.6 |
| 1/4 | | | 8.3 | 233.3 |
| +2 | | | 7.8 | 233.8 |
| +6 | | | 5.6 | 236.0 |
| M | | | 5.5 | 236.1 |
| 1/4 | | | 6.0 | 235.6 |
| crb | | | 6.1 | 235.5 |
| +7 | | | 4.5 | 237.1 |
| N | | | 4.6 | 237.0 |

| | | | | |
|---|---|---|---|---|
| | 241.61 | | | |
| | 1+00 | | | |
| N | | 2.1 | 239.5 | |
| Crk | | 2.9 | 238.7 | |
| "9 | | 3.1 | 238.5 | |
| M | | 2.7 | 238.9 | |
| +8 | | 2.9 | 238.7 | |
| "4 | | 7.2 | 234.4 | |
| Crk | | 8.6 | 233.0 | |
| S | | 8.1 | 233.5 | |
| | 1+25 | | | |
| S | | 8.9 | 232.7 | |
| Crk | | 9.2 | 232.4 | |
| "4 | | 8.1 | 233.5 | |
| +3 | | 4.6 | 237.0 | |
| M | | 3.4 | 238.2 | |
| "4 | | 2.4 | 239.2 | |
| Crk | | 1.5 | 240.1 | |
| N | | 0.9 | 240.7 | |

| | | | | |
|---|---|---|---|---|
| | 241.60 | | | |
| | 1+50 | | | |
| N | | 2.6 | 239.0 | |
| Crk | | 4.7 | 236.9 | |
| "4 | | 5.7 | 235.9 | |
| M | | 7.2 | 234.4 | |
| +10 | | 7.5 | 234.1 | |
| "4 | | 9.7 | 231.9 | |
| Crk | | 10.8 | 230.8 | |
| S | | 10.5 | 231.1 | |
| | 1+75 | | | |
| S | | 13.2 | 228.4 | |
| Crk | | 13.1 | 228.5 | |
| "4 | | 11.3 | 230.3 | |
| M | | 10.6 | 231.0 | |
| "4 | | 10.1 | 231.5 | |
| Crk | | 8.5 | 233.1 | |
| N | | 6.9 | 234.7 | |
| T.P | 0.87 | 230.64 | 11.84 | 229.77 |

230.64

2+0 = E.L. Curlew ST 80'

| | | |
|---|---|---|
| N | 0.6 | 230.0 |
| Crk | 2.3 | 228.3 |
| 1/4 | 3.4 | 227.2 |
| M | 4.4 | 226.2 |
| 1/4 | 5.3 | 225.3 |
| Crk | 5.7 | 224.9 |
| S | 6.8 | 223.8 |

E. curb

| | | |
|---|---|---|
| S | 8.4 | 222.2 |
| Crk | 7.2 | 223.4 |
| 1/4 | 7.9 | 222.7 |
| M | 7.1 | 223.5 |
| 1/4 | 6.2 | 224.4 |
| Crk | 5.4 | 225.2 |
| N | 3.6 | 227.0 |

230.64

E 1/4



| | | |
|---|---|---|
| N | 6.3 | 224.3 |
| Crk | 8.4 | 222.2 |
| 1/4 | 9.2 | 221.4 |
| M | 10.2 | 220.4 |
| 1/4 | 11.4 | 219.2 |
| Crk | 11.8 | 218.8 |
| S | 13.9 | 216.7 |

Center

| | | |
|---|---|---|
| S | 18.8 | 211.8 |
| Crk | 16.7 | 213.9 |
| 1/4 | 15.0 | 215.6 |
| M | 12.6 | 218.0 |
| 1/4 | 11.9 | 218.7 |
| Crk | 11.2 | 219.4 |
| N | 9.3 | 221.3 |
| T.P. | 0.47 | 218.25 ✓ |
| | 12.86 | 217.78 ✓ |

218.25

W ¼

| | | |
|---|---|---|
| N | 0.5 | 217.8 |
| Crk | 2.0 | 216.3 |
| ¼ | 3.1 | 215.2 |
| M | 4.6 | 213.7 |
| ¼ | 6.2 | 212.1 |
| Crk | 7.5 | 210.8 |
| S | 9.1 | 209.2 |

W. curb

| | | |
|---|---|---|
| S | 11.2 | 207.1 |
| Crk | 10.5 | 207.8 |
| ¼ | 9.5 | 208.8 |
| M | 7.5 | 210.8 |
| ¼ | 6.0 | 212.3 |
| Crk | 4.5 | 213.8 |
| N | 3.1 | 215.2 |

218.25

W. L. Curb W

21

| | | |
|---|---|---|
| N | 5.2 | 213.0 |
| Crk | 7.4 | 210.8 |
| ¼ | 8.5 | 209.7 |
| M | 10.2 | 208.0 |
| ¼ | 12.4 | 205.8 |
| Crk | 13.5 | 204.7 |
| S | 15.1 | 203.1 |
| +30 | 19.7 | 198.5 |

0+25 W

| | | |
|---|---|---|
| −30 | 25.3 | 192.9 |
| S | 21.0 | 197.2 |
| Crk | 19.1 | 199.1 |
| ¼ | 17.0 | 201.2 |
| M | 15.0 | 203.2 |
| ¼ | 13.2 | 205.0 |
| +4 | 11.8 | 206.4 |
| Crk | 11.9 | 206.3 |
| N | 9.6 | 205.6 |
| T.P. | 0.24 206.05 | 12.44 205.81 |

| | | | |
|---|---|---|---|
| | 206.05 | | |
| | 0+50 | | |
| N | | 0.0 | 206.0 |
| Crk | | 7.9 | 203.1 |
| +8 | | 2.5 | 203.5 |
| 1/4 | | 5.0 | 201.0 |
| M | | 7.7 | 198.8 |
| 1/4 | | 9.3 | 196.7 |
| Crk | | 11.3 | 194.7 |
| S | | 13.7 | 192.3 |
| +30 | | 17.3 | 188.7 |
| | 0+75 | | |
| -30 | | 19.7 | 186.3 |
| S | | 15.3 | 190.7 |
| Crk | | 13.2 | 192.8 |
| 1/4 | | 11.0 | 195.0 |
| M | | 8.9 | 197.1 |
| 1/4 | | 7.0 | 199.0 |
| +4 | | 5.0 | 201.0 |
| Crk | | 4.9 | 201.1 |
| N | | 1.8 | 204.2 |

| | | | |
|---|---|---|---|
| | 206.05 | | |
| | 1+0 | | |
| N | | 3.4 | 202.6 |
| +9 | | 5.2 | 200.8 |
| +11 | | 6.5 | 199.5 |
| Crk | | 6.5 | 199.5 |
| 1/4 | | 7.3 | 198.7 |
| M | | 8.6 | 197.4 |
| 1/4 | | 10.9 | 195.1 |
| Crk | | 13.2 | 192.8 |
| S | | 15.6 | 190.4 |
| +30 | | 19.8 | 186.2 |
| | 1+25 | | |
| +30 | | 19.4 | 186.6 |
| S | | 15.2 | 190.8 |
| Crk | | 12.9 | 193.1 |
| 1/4 | | 11.2 | 194.8 |
| M | | 10.0 | 196.0 |
| 1/4 | | 9.1 | 197.0 |
| Crk | | 8.3 | 197.7 |
| +4 | | 8.2 | 197.8 |
| +6 | | 7.2 | 198.8 |
| N | | 6.5 | 199.5 |
| T.P. | 1.30 | 9.98 | 196.07 |

197.37

1+50

| | | |
|---|---|---|
| N | 0.9 | 196.5 |
| +8 | 1.4 | 196.0 |
| +10 | 2.8 | 194.6 |
| Crk | 2.6 | 194.8 |
| 1/4 | 3.4 | 194.0 |
| +5 | 3.5 | 193.9 |
| +6 | 2.3 | 195.1 |
| M | 3.0 | 194.4 |
| 1/4 | 3.7 | 193.7 |
| Crk | 5.4 | 192.0 |
| S | 6.9 | 190.5 |
| +30 | 10.9 | 186.5 |

1+75

| | | |
|---|---|---|
| -30 | 11.9 | 185.5 |
| S | 9.0 | 188.4 |
| Crk | 7.8 | 189.6 |
| 1/4 | 6.8 | 190.6 |
| M | 6.3 | 191.1 |
| 1/4 | 6.3 | 191.1 |
| Crk | 6.3 | 191.1 |
| +5 | 6.2 | 191.2 |
| +6 | 4.8 | 192.6 |
| N | 4.4 | 193.0 |

2+0 = E.L. Dove

| | | |
|---|---|---|
| N | 8.3 | 189.1 |
| +2 | 8.3 | 189.1 |
| +3 | 10.3 | 187.1 |
| Crk | 10.1 | 187.3 |
| 1/4 | 10.0 | 187.4 |
| M | 10.0 | 187.4 |
| 1/4 | 11.0 | 186.4 |
| Crk | 11.4 | 186.0 |
| S | 12.0 | 185.4 |
| +30 | 14.6 | 182.8 |

x-section 31st St Beech to Cedar 3/22/11 Drinkle
13' 1/4's for 80' & 10' 1/4's for 60' Shaw
for street width see sketch Page 30 Nichman
B.M. S.W. Cor. Fern & Beech 232.57

| | | | | |
|---|---|---|---|---|
| B.M. | 8.07 | 240.64 | | |
| T.P. | 2.54 | 233.27 | 9.91 | 230.73 |
| | N.L. Beech | | | |
| W | | | 2.5 | 230.8 |
| crb | | | 4.3 | 229.0 |
| 1/4 | | | 6.2 | 227.1 |
| M | | | 7.3 | 226.0 |
| 1/4 | | | 7.8 | 225.5 |
| crb | | | 7.4 | 225.9 |
| E | | | 6.2 | 227.1 |
| | 0+25 N of Beech | | | |
| E | | | 10.7 | 222.6 |
| crb | | | 11.6 | 221.7 |
| 1/4 | | | 11.0 | 222.3 |
| M | | | 9.5 | 223.8 |
| 1/4 | | | 7.1 | 226.2 |
| crb | | | 5.3 | 228.0 |
| W | | | 3.0 | 230.3 |

233.27

| | | | | |
|---|---|---|---|---|
| | 0+50 | | | |
| W | | | 3.7 | 229.6 |
| crb | | | 6.5 | 226.8 |
| 1/4 | | | 8.7 | 224.6 |
| M | | | 12.2 | 221.1 |
| 1/4 | | | 16.1 | 217.2 |
| +11 | | | 24.1 | 209.2 |
| crb | | | 22.2 | 211.1 |
| E | | | 16.9 | 216.4 |
| +30 | | | 14.3 | 219.0 |
| | 0+75 | | | |
| -30 | | | 23.0 | ~~210.3~~ |
| E | | | 26.8 | 206.5 |
| +2 | | | 27.3 | 216.0 |
| +7 | | | 32.9 | 200.4 |
| crb | | | 26.7 | 206.6 |
| 1/4 | | | 20.3 | 213.0 |
| M | | | 13.9 | 219.4 |
| 1/4 | | | 10.1 | 223.2 |
| crb | | | 7.0 | 226.3 |
| W | | | 4.1 | 229.2 |

233.27

1+00

| | | |
|---|---|---|
| W | 4.6 | 228.7 |
| Crk | 7.6 | 225.7 |
| 1/4 | 11.5 | 221.8 |
| M | 15.0 | 218.3 |
| 1/4 | 18.8 | 214.5 |
| +8 | 20.5 | 212.8 |
| Crk | 24.0 | 209.3 |
| E | 32.3 | 201.0 |
| +7 | 39.2 | 194.1 |
| +30 | 32.9 | 200.4 |

1+25

| | | |
|---|---|---|
| -50 | 40.1 | |
| -33 | 45.6 | |
| E | 28.1 | 205.2 |
| Crk | 22.0 | 211.3 |
| 1/4 | 18.1 | 215.2 |
| M | 15.1 | 218.2 |
| 1/4 | 11.4 | 221.9 |
| Crk | 8.0 | 225.3 |
| W | 4.5 | 228.8 |



1+50

| | | |
|---|---|---|
| W | 4.1 | 229.2 |
| Crk | 7.5 | 225.8 |
| 1/4 | 11.4 | 221.9 |
| M | 13.3 | 220.0 |
| 1/4 | 18.9 | 214.4 |
| Crk | 22.2 | 211.1 |
| E | 26.2 | 207.1 |
| +25 | 33.5 | 199.8 |
| +55 | 43.9 | 184.6 |

1+75

| | | |
|---|---|---|
| -40 | 37.0 | |
| E | 26.6 | 206.7 |
| Crk | 22.1 | 211.2 |
| 1/4 | 18.1 | 215.2 |
| M | 14.1 | 219.2 |
| 1/4 | 10.6 | 222.7 |
| Crk | 7.4 | 225.9 |
| W | 3.5 | 229.8 |

| | | | |
|---|---|---|---|
| | 233.27 | | |
| | 2+10 | | |
| W | | 3.1 | 230.2 |
| Crk | | 6.6 | 226.7 |
| 1/4 | | 10.3 | 223.0 |
| M | | 14.1 | 219.2 |
| 1/4 | | 17.1 | 216.2 |
| Crk | | 21.5 | 211.8 |
| E | | 26.0 | 207.3 |
| +40 | | 37.1 | 196.2 |
| | 2+25 | | |
| −40 | | 38.1 | .2 |
| E | | 26.5 | 206.8 |
| Crk | | 21.8 | 211.5 |
| 1/4 | | 17.4 | 215.9 |
| M | | 14.2 | 219.1 |
| 1/4 | | 11.1 | 222.2 |
| Crk | | 7.3 | 226.0 |
| W | | 3.9 | 229.4 |

| | | | | |
|---|---|---|---|---|
| | | 2+50 | | |
| W | | | 5.5 | 227.8 |
| Crk | | | 9.0 | 224.3 |
| 1/4 | | | 12.2 | 221.1 |
| M | | | 15.5 | 217.8 |
| 1/4 | | | 19.2 | 214.1 |
| Crk | | | 23.4 | 209.9 |
| E | | | 27.8 | 205.5 |
| +40 | | | 39.7 | 193.6 |
| | | 2+75 | | |
| −30 | | | 43.0 | 190.3 |
| −15 | | | 34.3 | 199.0 |
| E | | | 29.8 | 203.5 |
| Crk | | | 25.2 | 208.1 |
| 1/4 | | | 21.2 | 212.1 |
| M | | | 17.4 | 215.9 |
| 1/4 | | | 14.4 | 218.9 |
| Crk | | | 10.5 | 222.8 |
| W | | | 7.7 | 225.6 |
| T.P. | 0.37 | 222.82 | 10.82 | 222.45 |

2.22.82

3+0 = 5.L. Cedar 80'

| | | |
|---|---|---|
| W | 0.4 | 222.4 |
| crk | 3.7 | 219.1 |
| 1/4 | 6.6 | 216.2 |
| M | 10.0 | 212.8 |
| 1/4 | 14.3 | 208.5 |
| crk | 17.6 | 205.2 |
| E | 23.3 | 199.5 |

for +8 — readings for intersection see X-section of Cedar

5. Cork

| | | |
|---|---|---|
| E | 25.8 | 197.0 |
| Crk | 18.4 | 204.4 |
| 1/4 | 15.3 | 207.5 |
| M | 11.8 | 211.0 |
| 1/4 | 8.0 | 214.8 |
| crk | 5.6 | 217.2 |
| W | 2.5 | 220.3 |

5 1/4

| | | |
|---|---|---|
| W | 3.9 | 218.9 |
| Crk | 6.2 | 216.6 |
| 1/4 | 9.3 | 213.5 |
| M | 13.1 | 209.7 |
| 1/4 | 16.0 | 206.8 |
| crk | 18.6 | 204.2 |
| E | 26.3 | 196.5 |

Center

| | | |
|---|---|---|
| E | 28.2 | 194.6 |
| crk | 19.2 | 203.6 |
| 1/2 | 17.8 | 205.0 |
| M | 15.2 | 207.6 |
| 1/4 | 11.0 | 211.8 |
| Crk | 8.0 | 214.8 |
| W | 4.8 | 218.0 |

| | | | |
|---|---|---|---|
| | 227.82 | | |
| | N ¼ | | |
| W | | 6.3 | 216.5 |
| Crk | | 9.8 | 213.0 |
| ¼ | | 13.2 | 209.6 |
| M | | 16.4 | 206.4 |
| ¼ | | 19.9 | 202.9 |
| Crk | | 22.2 | 200.6 |
| E | | 26.2 | 196.6 |
| | N Curb | | |
| E | | 26.8 | 196.0 ✓ |
| Crk | | 29.5 | 193.3 ✓ |
| ¼ | | 21.2 | 201.6 ✓ |
| M | | 18.3 | 204.5 ✓ |
| ¼ | | 15.6 | 207.2 ✓ |
| Crk | | 11.9 | 210.9 ✓ |
| W | | 7.7 | 215.1 ✓ |

N.L. Cedar

| | | | |
|---|---|---|---|
| W | | 8.8 | 214.0 ✓ |
| Crk | | 12.8 | 210.0 ✓ |
| ¼ | | 16.5 | 206.3 ✓ |
| M | | 19.3 | 203.5 ✓ |
| ¼ | | 22.5 | 200.3 ✓ |
| Crk | | 26.3 | 196.5 ✓ |
| E | | 31.9 | 190.9 ✓ |
| | | | 214.08 ✓ |
| T.P | 0.22 | 214.30 ✓ | 5.74 Hub N.W. Cor |
| | 0.25 N of Cedar | | |
| 30 | | 30.5 | 183.8 ✓ |
| E | | 22.1 | 192.2 ✓ |
| Crk | | 18.2 | 196.1 ✓ |
| ¼ | | 14.9 | 199.4 ✓ |
| M | | 12.2 | 202.1 ✓ |
| ¼ | | 9.5 | 204.8 ✓ |
| Crk | | 5.8 | 208.5 ✓ |
| W | | 1.6 | 212.7 ✓ |

214.30

0+50

| | | |
|---|---|---|
| W | 3.6 | 210.7 ✓ |
| Crk | 7.4 | 206.9 ✓ |
| "A | 10.7 ✓ | 203.6 ✓ |
| M | 13.2 | 201.1 ✓ |
| "A | 15.8 | 198.5 ✓ |
| Crk | 19.0 | 195.3 ✓ |
| E | 22.6 | 191.7 ✓ |
| +30 | 38.0 | 176.3 ✓ |

0+75

| | | |
|---|---|---|
| -30 ✓ | 40.2 | 174.1 ✓ |
| E | 22.7 | 191.6 ✓ |
| Crk | 20.1 | 194.2 ✓ |
| "A | 17.3 | 197.0 ✓ |
| M | 14.0 | 200.3 ✓ |
| "A | 11.5 | 202.8 ✓ |
| Crk | 9.1 | 205.2 ✓ |
| W | 5.7 | 208.6 ✓ |

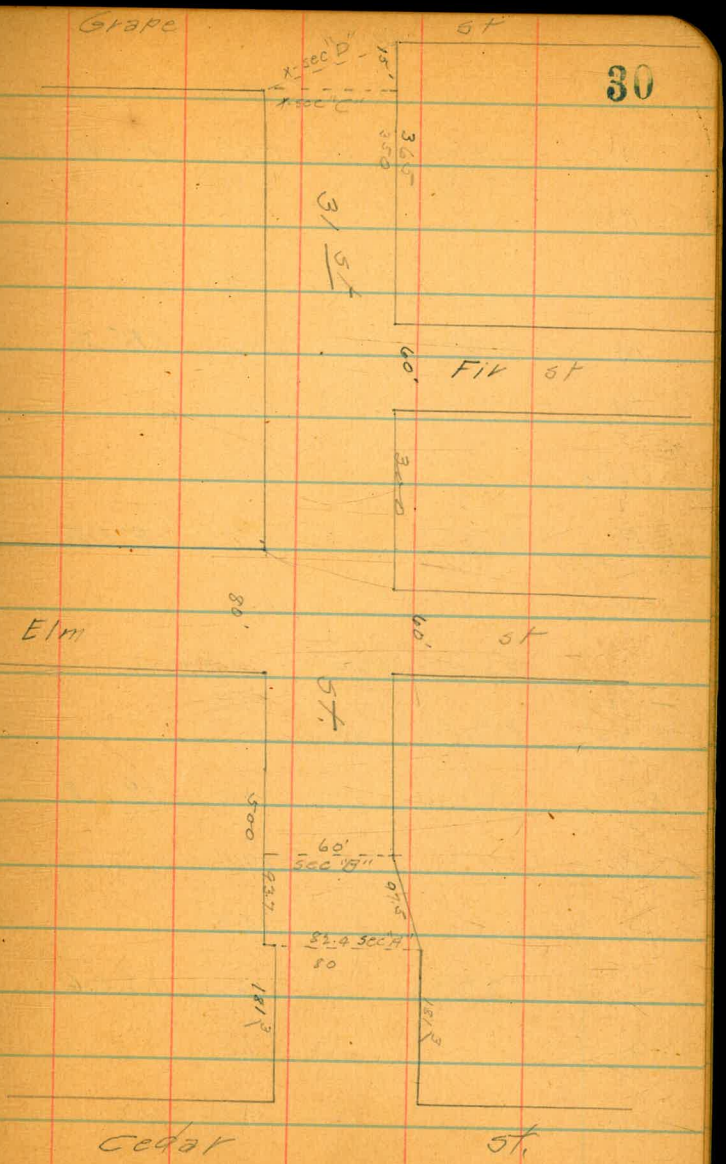
1+0

| | | |
|---|---|---|
| W | 7.2 | 207.1 ✓ |
| Crk | 10.3 | 204.0 ✓ |
| "A | 12.6 | 201.7 ✓ |
| M | 15.8 | 198.5 ✓ |
| "A | 19.2 | 195.1 ✓ |
| Crk | 22.1 | 192.2 ✓ |
| E | 26.0 | 188.3 ✓ |
| +30 | 37.8 | 175.5 ✓ |

1+25

| | | |
|---|---|---|
| -30 | 39.1 | 175.2 ✓ |
| E | 28.3 | 186.0 ✓ |
| Crk | 23.0 | 191.3 ✓ |
| "A | 20.1 | 194.2 ✓ |
| M | 16.9 | 197.4 ✓ |
| "A | 14.5 | 199.8 ✓ |
| Crk | 11.2 | 203.1 ✓ |
| W | 7.7 | 206.6 ✓ |

| | | | |
|---|---|---|---|
| | 224.30 | | |
| | 1+50 | | |
| W | | 8.4 | 205.9 ✓ |
| Crb | | 12.5 | 201.8 ✓ |
| 1/4 | | 15.9 | 198.4 ✓ |
| M | | 19.1 | 195.2 ✓ |
| 1/4 | | 22.5 | 191.8 ✓ |
| Crb | | 27.9 | 186.4 ✓ |
| E | | 34.8 | 179.5 ✓ |
| +10 | | 37.9 | 176.4 ✓ |
| +30 | | 40.2 | 174.1 ✓ |
| | 1+81.3 = X-section "A" | | |
| −30 | | 40.6 | 173.7 ✓ |
| −10 | | 38.2 | 176.1 ✓ |
| E | | 35.7 | 178.6 |
| Crb | | 30.0 | |
| 1/4 | | 24.0 | |
| M | | 19.1 | 195.2 |
| 1/4 | | 16.3 | |
| Crb | | 13.3 | |
| W | | 9.5 | 204.8 |
| T.P | 0.70 | 202.78 | 12.72 202.08 |



202.78

2+00 N of Cedar

| | | |
|---|---|---|
| W | +1.3 | 201.05 |
| Crk | 1.6 | |
| 1/4 | 4.4 | |
| M | 7.6 | 195.2 |
| 1/4 | 10.3 | |
| Crk | 13.9 | |
| E | 21.3 | 181.5 |
| +15 | 26.4 | |
| +30 | 28.8 | |

2+25

| | | |
|---|---|---|
| -40 | 28.6 | |
| -20 | 28.0 | |
| E | 21.0 | 181.8 |
| Crk | 17.7 | |
| 1/4 | 15.8 | |
| M | 12.2 | 190.6 |
| 1/4 | 9.0 | |
| Crk | 4.7 | |
| W | 1.3 | 201.05 |



2+50

| | | | |
|---|---|---|---|
| W | | 10.3 | 192.15 |
| T.P. | 0.60 | 190.43 | 12.95 189.83 |
| Crk | | 2.1 | |
| 1/4 | | 5.8 | |
| M | | 8.3 | 182.1 |
| 1/4 | | 9.7 | |
| Crk | | 11.6 | |
| E | | 13.0 | 177.4 |
| +40 | | 15.0 | |

2+75 = X-section "B"

| | | |
|---|---|---|
| -40 | 14.6 | 175.8 |
| E | 13.6 | 176.8 |
| Crk | 12.7 | |
| 1/4 | 11.7 | |
| M | 10.6 | 179.8 |
| 1/4 | 8.8 | |
| Crk | 6.6 | |
| W | 3.1 | 187.3 |

| | | | |
|---|---|---|---|
| | 190.43 | | |
| | 3+00 | | |
| −10 | | 1.4 | |
| W | | 5.1 | 185.3 |
| Crk | | 7.9 | |
| 1/4 | | 10.2 | |
| M | | 11.3 | 179.1 |
| 1/4 | | 12.1 | |
| Crk | | 12.8 | |
| E | | 13.3 | 177.1 |
| +42 | | 13.3 | |
| | 3+25 | | |
| −35 | | 6.6 | |
| E | | 13.9 | 177.0 |
| Crk | | 12.6 | |
| 1/4 | | 12.1 | |
| M | | 11.5 | 178.9 ✓ |
| 1/4 | | 10.9 | |
| Crk | | 10.1 | |
| W | | 8.7 | 181.7 |
| +35 | | 5.6 | 184.8 |

| | | | |
|---|---|---|---|
| | 3+50 | | |
| −35 | | 9.5 | |
| W | | 10.3 | 180.1 |
| Crk | | 10.8 | 179.6 |
| 1/4 | | 11.4 | 179.0 |
| M | | 11.5 | 178.9 ✓ |
| 1/4 | | 11.1 | |
| Crk | | 7.6 | |
| E | | 4.2 | 186.2 |
| +30 | | 3.1 | |
| | 3+75 | | |
| E | | 0.6 | 189.8 |
| Crk | | 1.1 | |
| 1/4 | | 2.2 | |
| M | | 3.7 | 186.7 |
| 1/4 | | 6.3 | 184.1 |
| Crk | | 8.6 | |
| W | | 9.2 | 181.2 |
| +30 | | 8.5 | 181.9 |

| | | | | |
|---|---|---|---|---|
| | | 190.43 | | |
| | | 4+00 | | |
| − 40 | | | 5.3 | |
| W | | | 7.1 | 182.3 |
| crk | | | 3.5 | |
| T.P. | 12.45 | 202.59 | 0.29 | 190.14 |
| 1/4 | | | 11.5 | |
| M | | | 11.3 | 191.3 |
| 1/4 | | | 10.8 | |
| crk | | | 10.2 | |
| E | | | 9.8 | 192.8 |
| | | 4+25 | | |
| E | | | 6.9 | 195.7 |
| crk | | | 7.4 | |
| 1/4 | | | 7.3 | |
| M | | | 8.0 | 194.6 |
| 1/4 | | | 9.4 | |
| crk | | | 12.6 | |
| W | | | 15.1 | 187.5 |
| + 30 | | | 19.3 | |



| | | | | |
|---|---|---|---|---|
| | | 202.59 | | |
| | | 4+50 | | |
| − 20 | | | 13.8 | |
| W | | | 12.0 | 190.6 |
| crk | | | 10.2 | |
| 1/4 | | | 7.0 | |
| M | | | 4.9 | 197.7 |
| 1/4 | | | 4.1 | |
| crk | | | 3.6 | |
| E | | | 3.3 | 199.3 |
| T.P. | 12.34 | 214.69 | 0.24 | 202.35 |
| | | 4+75 | | |
| E | | | 10.6 | 204.1 |
| crk | | | 10.8 | |
| 1/4 | | | 11.4 | |
| M | | | 11.5 | 203.2 |
| 1/4 | | | 12.7 | |
| crk | | | 15.3 | |
| W | | | 18.2 | 196.5 |
| + 30 | | | 21.5 | |

| | | | | |
|---|---|---|---|---|
| | | 214.69 | | |
| E. | | 5+10 | | |
| — 20 | | | 13.0 | 201.7 |
| W | | | 10.9 | 203.8 |
| Crk | | | 9.8 | 204.9 |
| 1/4 | | | 9.2 | 205.25 |
| M | | | 8.5 | 206.2 |
| 1/4 | | | 8.0 | |
| Crk | | | 6.9 | |
| E. | | | 6.2 | 207.5 |
| | | 5+25 | | |
| E | | | 1.5 | 213.2 |
| Crk | | | 2.4 | |
| 1/4 | | | 4.0 | |
| M | | | 5.1 | 209.6 |
| 1/4 | | | 6.3 | |
| Crk | | | 7.2 | |
| W | | | 8.1 | 206.6 |
| +20 | | | 10.3 | |

| | | | | |
|---|---|---|---|---|
| | | 5+50 | | |
| W | | | 4.5 | 210.2 |
| Crk | | | 3.3 | |
| 1/4 | | | 1.9 | |
| M | | | 0.1 | 214.6 |
| T.P. | 12.12 | 226.45 | 0.36 | 214.33 |
| 1/4 | | | 10.9 | 5 |
| Crk | | | 10.6 | |
| E | | | 11.0 | 215.4 |
| | | 5+75 | | |
| E | | | 7.6 | 218.8 |
| Crk | | | 7.5 | |
| 1/4 | | | 7.3 | |
| M | | | 8.0 | 218.4 |
| 1/4 | | | 9.2 | |
| Crk | | | 10.2 | |
| N. | | | 12.0 | 214.4 |

| | | | | |
|---|---|---|---|---|
| | | 226.45 | | |
| | | 6+0 | | |
| W | | | 7.6 | 218.8 |
| Crk | | | 6.3 | |
| 1/4 | | | 5.3 | |
| M | | | 4.6 | 221.8 |
| 1/4 | | | 4.6 | |
| Crk | | | 5.0 | |
| E | | | 5.4 | 221.0 |
| | | 6+25 | | |
| E | | | 3.3 | 223.1 |
| Crk | | | 2.8 | |
| 1/4 | | | 2.3 | |
| M | | | 2.1 | 224.3 |
| 1/4 | | | 2.5 | |
| Crk | | | 2.7 | |
| W | | | 3.4 | 223.0 |
| T.P. | 12.00 | 238.04 | 0.41 | ~~226~~.04 |

| | | | |
|---|---|---|---|
| | 238.0 | | |
| | 6+50 | | |
| W | 12.0 | 226.0 | |
| Crk | 11.4 | | |
| 1/4 | 11.6 | | |
| M | 11.6 | 226.4 | |
| 1/4 | 11.8 | | |
| Crk | 12.6 | | |
| E | 13.0 | 225.0 | |
| 6+81.3 = S.L. El M = 60 on E.L. 280 on W.L. | | | |
| E | 11.0 | 227.0 | |
| Crk | 10.4 | | |
| 1/4 | 9.8 | | |
| M | 9.4 | 228.6 | |
| 1/4 | 9.0 | | |
| Crk | 8.8 | | |
| W | 8.9 | 229.1 | |

238.0

S. Curb

| | | |
|---|---|---|
| W | 7.8 | 230.2 |
| Crb | 7.9 | 230.1 |
| ¼ | 8.2 | 229.8 |
| M | 8.6 | 229.4 |
| ¼ | 9.0 | |
| Crb | 9.8 | |
| E | 10.4 | 227.6 |

5' ℄

| | | |
|---|---|---|
| E | 9.5 | 228.5 |
| Crb | 9.1 | |
| ¼ | 8.2 | |
| M | 7.9 | 230.1 |
| ¼ | 7.3 | |
| Crb | 6.9 | |
| W | 6.6 | 231.4 |

Center

| | | |
|---|---|---|
| W | 5.5 | 232.5 |
| Crb | 5.8 | |
| ¼ | 6.4 | |
| M | 7.0 | 231.0 |
| ¼ | 7.5 | |
| Crb | 8.4 | |
| E | 9.0 | 229.0 |

N ¼

| | | |
|---|---|---|
| E | 8.3 | 229.7 |
| Crb | 7.6 | |
| ¼ | 6.7 | |
| M | 6.2 | 231.8 |
| ¼ | 5.4 | |
| Crb | 4.6 | |
| W | 4.5 | 233.5 |

288.04

N curb

| | | | |
|---|---|---|---|
| W | | 3.5 | 234.0 |
| curb | | 3.9 | |
| 1/4 | | 4.7 | |
| M | | 5.3 | 232.7 |
| 1/4 | | 5.8 | |
| curb | | 6.7 | |
| E | | 7.5 | 230.5 |

N.L. Elm

| | | | |
|---|---|---|---|
| E | | 6.9 | 231.5 |
| curb | | 6.9 | |
| 1/4 | | 5.0 | |
| M | | 4.4 | 233.6 |
| 1/4 | | 3.7 | |
| curb | | 3.0 | |
| W | | 2.3 | 235.7 |

238.0

0+25 N of N.L. Elm on E 30+05 on W

| | | | |
|---|---|---|---|
| W | | 2.3 | 235.7 |
| curb | | 2.6 | |
| 1/4 | | 2.8 | |
| M | | 3.4 | 234.6 |
| 1/4 | | 3.6 | |
| curb | | 4.5 | |
| E | | 5.0 | 233.0 |

6+50

| | | | |
|---|---|---|---|
| E | | 3.0 | 235.0 |
| curb | | 2.6 | |
| 1/4 | | 1.7 | |
| M | | 1.4 | 236.6 |
| 1/4 | | 0.8 | |
| curb | | 0.6 | |
| W | | 0.3 | 237.7 |
| T.P. | 11.08 | 248.73 | 0.39 | 237.65 |

| | | | | |
|---|---|---|---|---|
| | 24873 | | | |
| E | 0+75 | | | |
| W | | 9.1 | 239.6 | |
| crk | | 9.2 | | |
| ¼ | | 9.3 | | |
| M | | 9.9 | 238.8 | |
| ¼ | | 10.4 | | |
| crk | | 11.1 | | |
| E | | 11.6 | 237.1 | |
| | 1+0 | | | |
| E | | 9.2 | 239.5 | |
| crk | | 8.9 | | |
| ¼ | | 8.2 | | |
| M | | 7.9 | 240.8 | |
| ¼ | | 7.3 | | |
| crk | | 7.0 | | |
| W | | 6.7 | 242.0 | |

| | | | | |
|---|---|---|---|---|
| | | 1+25 | | |
| W | | 4.2 | 244.5 | |
| crk | | 4.5 | | |
| ¼ | | 4.6 | | |
| M | | 5.0 | 243.7 | |
| ¼ | | 5.3 | | |
| crk | | 5.9 | | |
| E | | 6.4 | 242.3 | |
| | | 1+50 | | |
| E | | 3.50 | 245.2 | |
| crk | | 3.1 | | |
| ¼ | | 2.4 | | |
| M | | 2.1 | 246.6 | |
| ¼ | | 1.7 | | |
| crk | | 1.7 | | |
| W | | 1.5 | 247.2 | |
| T.P. | 11.26 | 259.87 | 0.12 | 248.61 |

| | | | |
|---|---|---|---|
| | 259.87 | | |
| | 1+75 | | |
| W | | 9.8 | 250.1 |
| Crk | | 10.1 | |
| 1/4 | | 10.3 | |
| M | | 10.6 | 249.3 |
| 1/4 | | 10.6 | |
| Crk | | 10.9 | |
| E | | 11.6 | 248.3 |
| | 1+0 | | |
| E | | 8.7 | 251.2 |
| Crk | | 8.1 | |
| 1/4 | | 7.7 | |
| M | | 7.6 | 252.3 |
| 1/4 | | 7.1 | |
| Crk | | 6.9 | |
| W | | 6.7 | 253.2 |

| | | | |
|---|---|---|---|
| | 2+25 | | |
| W | | 4.4 | 255.5 |
| Crk | | 4.7 | |
| 1/4 | | 4.6 | |
| M | | 4.7 | 255.2 |
| 1/4 | | 4.7 | |
| Crk | | 5.0 | |
| E | | 5.5 | 254.4 |
| | 2+50 | | |
| E | | 3.2 | 256.7 |
| Crk | | 3.0 | |
| 1/4 | | 2.8 | |
| M | | 2.9 | 257.0 |
| 1/4 | | 2.8 | |
| Crk | | 2.8 | |
| W | | 2.6 | 257.3 |

259.87

2+75

| | | | | |
|---|---|---|---|---|
| W | | | 1.0 | 258.9 |
| Crb | | | 1.3 | |
| ¼ | | | 1.3 | |
| M | | | 1.5 | 258.4 |
| ¼ | | | 1.5 | |
| crb | | | 1.7 | |
| E | | | 1.5 | 258.4 |
| T.P. | 10.53 | 269.60 | 0.80 | 259.07 |

3+00 = S.L. Fix St 60' wide

| | | | | |
|---|---|---|---|---|
| E | | | 10.2 | 259.4 |
| crb | | | 10.3 | |
| ¼ | | | 9.9 | |
| M | | | 10.0 | 259.6 |
| ¼ | | | 9.8 | |
| Crb | | | 9.7 | |
| W | | | 9.5 | 260.1 |



S. curb

| | | |
|---|---|---|
| W | 9.2 | 260.4 |
| crb | 9.2 | |
| ¼ | 9.4 | |
| M | 9.4 | 260.2 |
| ¼ | 9.4 | |
| crb | 9.8 | |
| E | 9.7 | 259.9 |

S ¼

| | | |
|---|---|---|
| E | 9.3 | 260.3 |
| crb | 9.3 | |
| ¼ | 9.0 | |
| M | 9.0 | 260.6 |
| ¼ | 8.9 | |
| Crb | 8.8 | |
| W | 8.6 | 261.0 |

269.6.0

Center

| | | |
|---|---|---|
| W | 8.2 | 261.4 |
| Crb | 8.4 | 261.2 |
| "9 | 8.5 | 261.1 |
| M | 8.5 | 261.1 |
| "9 | 8.5 | |
| Crb | 8.8 | |
| E | 8.8 | 260.2 |

N "9

| | | |
|---|---|---|
| E | 8.4 | 261.2 |
| Crb | 8.4 | |
| "9 | 8.0 | |
| M | 8.1 | 261.5 |
| "9 | 8.0 | |
| Crb | 7.8 | |
| W | 8.0 | 261.6 |

N curb

| | | |
|---|---|---|
| W | 7.5 | 262.1 |
| Crb | 7.4 | |
| "9 | 7.5 | |
| M | 7.6 | 262.0 |
| "9 | 7.5 | |
| Crb | 7.8 | |
| E | 7.9 | 261.7 |

N. L. Fir

| | | |
|---|---|---|
| E | 7.5 | 262.1 |
| Crb | 7.4 | |
| "9 | 7.1 | |
| M | 7.2 | 262.4 |
| "9 | 7.2 | |
| Crb | 7.0 | |
| W | 7.2 | 262.4 |

269.60

0+25 N of FK

| | | |
|---|---|---|
| W | 6.0 | 263.6 |
| Crk | 6.2 | |
| ″ | 6.3 | |
| M | 6.5 | 263.1 |
| ″ | 6.4 | |
| Crk | 6.5 | |
| E | 6.6 | 263.0 |

0+50

| | | |
|---|---|---|
| E | 6.0 | 263.6 |
| Crk | 5.8 | |
| ″ | 5.7 | |
| M | 5.7 | 263.9 |
| ″ | 5.6 | |
| Crk | 5.5 | |
| W | 5.3 | 264.3 |

0+75



| | | |
|---|---|---|
| W | 4.5 | 265.1 |
| Crk | 4.9 | |
| ″ | 4.8 | |
| M | 5.1 | 264.5 |
| ″ | 5.1 | |
| Crk | 5.3 | |
| E | 5.5 | 264.1 |

1+0

| | | |
|---|---|---|
| E | 5.0 | 264.6 |
| Crk | 4.8 | |
| ″ | 4.6 | |
| M | 4.5 | 265.0 |
| ″ | 4.5 | |
| Crk | 4.3 | |
| W | 4.1 | 265.5 |

269.60

| | | | |
|---|---|---|---|
| | 1+25 | | |
| W | | 3.7 | 265.9 |
| Crb | | 3.9 | |
| "/" | | 4.4 | |
| M | | 4.2 | 265.4 |
| "/" | | 4.4 | |
| Crb | | 4.6 | |
| E | | 4.9 | 264.7 |
| | 1+50 | | |
| E | | 4.9 | 264.7 |
| Crb | | 4.5 | |
| "/" | | 4.2 | |
| M | | 4.0 | 265.6 |
| "/" | | 4.0 | |
| Crb | | 3.6 | |
| W | | 3.3 | 266.3 |

| | | | |
|---|---|---|---|
| | 1+75 | | |
| W | | 2.9 | 266.7 |
| Crb | | 3.3 | |
| "/" | | 3.7 | |
| M | | 3.7 | 265.9 |
| "/" | | 4.0 | |
| Crb | | 4.4 | |
| E | | 4.8 | 264.8 |
| | 2+0 | | |
| E | | 4.6 | 265.0 |
| Crb | | 4.2 | |
| "/" | | 3.7 | |
| M | | 3.5 | 266.1 |
| "/" | | 3.4 | |
| Crb | | 3.0 | |
| W | | 2.8 | 266.8 |

| | | | |
|---|---|---|---|
| | 269.60 | | |
| | 2+25 | | |
| W | | 2.3 | 267.3 |
| crk. | | 2.6 | |
| "4 | | 3.1 | |
| M | | 3.0 | 266.6 |
| "4 | | 3.3 | |
| crk | | 3.6 | |
| E | | 4.1 | 265.8 |
| | 2+50 | | |
| E | | 3.6 | 266.0 |
| crk | | 3.2 | |
| "4 | | 2.8 | |
| M | | 2.4 | 267.2 |
| "4 | | 2.6 | |
| crk | | 2.1 | |
| W | | 2.1 | 267.5 |

| | | | | |
|---|---|---|---|---|
| | | 2+75 | | |
| W | | | 1.6 | 268.0 |
| crk | | | 1.7 | |
| "4 | | | 1.8 | |
| M | | | 2.0 | 267.6 |
| "4 | | | 2.3 | |
| crk | | | 2.5 | |
| E | | | 2.6 | 267.0 |
| | | 3+0 | | |
| E | | | 2.0 | 267.6 |
| crk | | | 1.8 | |
| "4 | | | 1.5 | |
| M | | | 1.4 | 268.2 |
| "4 | | | 1.4 | |
| crk | | | 1.0 | |
| W | | | 1.1 | 268.5 |
| T.P. | 5.49 | 274.39 | 0.70 | 268.90 |

274.39

3+25

| | | | |
|---|---|---|---|
| W | | 5.3 | 269.1 |
| crb | | 5.3 | |
| 1/4 | | 5.4 | |
| M | | 5.3 | 269.1 |
| 1/4 | | 5.5 | |
| crb | | 5.6 | |
| E | | 5.8 | 268.6 |

3+50 = x-section "C" page 30

| | | | |
|---|---|---|---|
| E | | 5.9 | 268.5 |
| crb | | 4.8 | |
| 1/4 | | 4.7 | |
| M | | 4.6 | 269.8 |
| 1/4 | | 4.8 | |
| crb | | 4.6 | |
| W | | 4.8 | 269.6 |

x-sec "D" = S.L. Grape st

| | | | |
|---|---|---|---|
| W | | 4.8 | 269.6 |
| crb | | 4.6 | |
| 1/4 | | 4.6 | |
| M | | 4.5 | 269.9 |
| 1/4 | | 4.6 | |
| crb | | 4.4 | |
| E | | 4.5 | 269.9 |

x-section 17th St "C" to Park Line
" " 80' wide 13' 1/4 S

3/29/11 Umkle
Shane
Fichner

| | | | | | |
|---|---|---|---|---|---|
| B.M. Brass p/g 16th & "C" | | | | 60.54 | |
| B.M. | 0.83 | 61.37 | | | |
| N.L. "C" St. | | | | | |
| W | | | 6.2 | 55.2 | |
| Crb | | | 6.5 | 54.9 | |
| 1/4 | | | 6.8 | 54.6 | |
| M | | | 6.9 | 54.5 | |
| 1/4 | | | 7.2 | 54.2 | |
| Crb | | | 7.5 | 53.9 | |
| E | | | 7.6 | 53.8 | |
| | | 0+9 | | | |
| E | | | 8.9 | 52.5 | |
| Crb | | | 8.6 | 52.8 | |
| 1/4 | | | 9.1 | 52.3 | |
| M | | | 9.2 | 52.2 | |
| 1/4 | | | 8.9 | 52.5 | |
| Crb | | | 8.5 | 52.9 | |
| W | | | 7.1 | 54.3 | |



| | | | | | |
|---|---|---|---|---|---|
| | | 61.37 | | | |
| | | 0+25 | | | |
| W | | | 8.6 | 52.8 | |
| Crb | | | 9.1 | 52.3 | |
| 1/4 | | | 9.1 | 52.3 | |
| M | | | 9.3 | 52.1 | |
| 1/4 | | | 9.3 | 52.1 | |
| Crb | | | 9.1 | 52.3 | |
| E | | | 9.3 | 52.1 | |
| | | 0+50 | | | |
| E | | | 9.2 | 52.2 | |
| Crb | | | 9.3 | 52.1 | |
| 1/4 | | | 9.3 | 52.1 | |
| M | | | 9.4 | 52.0 | |
| 1/4 | | | 9.2 | 52.2 | |
| Crb | | | 9.2 | 52.2 | |
| W | | | 9.2 | 52.2 | |

| | | | |
|---|---|---|---|
| | 61.37 | | |
| | 0+75 | | |
| W | | 9.2 | 52.2 |
| Crk | | 9.2 | 52.2 |
| 1/4 | | 9.3 | 52.1 |
| M | | 9.2 | 52.2 |
| 1/4 | | 9.2 | 52.2 |
| Crk | | 9.0 | 52.4 |
| E | | 8.9 | 52.5 |
| | 1+00 | | |
| E | | 8.9 | 52.5 |
| Crk | | 9.1 | 52.3 |
| 1/4 | | 8.9 | 52.5 |
| M | | 9.0 | 52.4 |
| 1/4 | | 9.0 | 52.4 |
| Crk | | 9.1 | 52.3 |
| W | | 8.9 | 52.5 |

| | | | |
|---|---|---|---|
| | 61.37 | | |
| | 1+25 | | |
| W | | 8.3 | 53.1 |
| Crk | | 8.5 | 52.9 |
| 1/4 | | 8.8 | 52.6 |
| M | | 8.6 | 52.8 |
| 1/4 | | 8.6 | 52.8 |
| Crk | | 8.5 | 52.9 |
| E | | 8.5 | 52.9 |
| | 1+50 | | |
| E | | 7.8 | 53.6 |
| Crk | | 8.0 | 53.4 |
| 1/4 | | 7.8 | 53.6 |
| M | | 8.0 | 53.4 |
| 1/4 | | 7.9 | 53.5 |
| Crk | | 7.6 | 53.8 |
| W | | 7.3 | 54.1 |

| | | | | |
|---|---|---|---|---|
| | | 61.37 | | |
| | | 1+75 | | |
| W | | | 4.7 | 56.7 |
| Crb | | | 5.0 | 56.4 |
| ½ | | | 5.4 | 56.0 |
| M | | | 5.4 | 56.0 |
| ½ | | | 6.0 | 55.4 |
| Crb | | | 6.4 | 55.0 |
| E | | | 6.4 | 55.0 |
| T.P. | 17.62 | 72.97 | 1.07 | 60.35 |
| | | 2+0 | | |
| E | | | 14.1 | 58.9 |
| Crb | | | [illegible] | 59.7 |
| ½ | | | 13.7 | 59.3 |
| M | | | 13.0 | 60.0 |
| ½ | | | 12.4 | 60.6 |
| Crb | | | 12.1 | 60.9 |
| W | | | 11.0 | 62.0 |

| | | | | |
|---|---|---|---|---|
| | | 72.97 | | |
| | | 2+25 | | |
| W | | | 6.2 | 66.8 |
| Crb | | | 7.4 | 65.6 |
| ½ | | | 7.7 | 65.3 |
| M | | | 8.5 | 64.5 |
| ½ | | | 8.7 | 64.3 |
| Crb | | | 8.9 | 64.1 |
| E | | | 9.4 | 63.6 |
| | | 2+50 | | |
| E | | | 6.7 | 66.3 |
| Crb | | | 6.5 | 66.5 |
| ½ | | | 6.6 | 66.4 |
| M | | | 6.4 | 66.6 |
| ½ | | | 6.4 | 66.6 |
| Crb | | | 6.0 | 67.0 |
| W | | | 5.0 | 68.0 |

| | | | | |
|---|---|---|---|---|
| | | 72.97 | | |
| | | 2+75 | | |
| W | | | 4.3 | 68.7 |
| Crb | | | 5.0 | 68.0 |
| "A | | | 5.3 | 67.7 |
| M | | | 4.9 | 68.1 |
| "A | | | 5.2 | 67.8 |
| Crb | | | 5.7 | 67.3 |
| E | | | 5.9 | 67.1 |
| 3+0 = 5.L. "B" St Being graded | | | | |
| E | | | 4.6 | 68.4 |
| Crb | | | 4.3 | 68.7 |
| "A | | | 3.8 | 69.2 |
| M | | | 3.3 | 69.7 |
| "A | | | 3.4 | 69.6 |
| Crb | | | 3.4 | 69.6 |
| W | | | 2.8 | 70.2 |
| T.P. | 17.06 | 84.71 | 0.32 | 72.65 |

| | | | |
|---|---|---|---|
| | 84.71 | | |
| | N.L. "B" | | |
| W | | 6.5 | 78.2 |
| Crb | | 7.3 | 77.4 |
| "A | | 8.4 | 76.3 |
| M | | 9.3 | 75.4 |
| "A | | 10.6 | 74.1 |
| Crb | | 11.6 | 73.1 |
| E | | 11.8 | 72.9 |
| 0+25 N of "B" | | | |
| E | | 10.5 | 74.2 |
| Crb | | 10.3 | 74.4 |
| "A | | 9.2 | 75.5 |
| M | | 8.3 | 76.4 |
| "A | | 7.1 | 77.6 |
| Crb | | 6.0 | 78.7 |
| W | | 4.9 | 79.6 |

| | | | | |
|---|---|---|---|---|
| | | 84.71 | | |
| | | 0+50 | | |
| W | | | 4.7 | 80.0 |
| Crk | | | 5.3 | 79.4 |
| 1/4 | | | 6.1 | 78.6 |
| M | | | 7.5 | 77.2 |
| 1/4 | | | 8.4 | 76.3 |
| Crk | | | 9.5 | 75.2 |
| E | | | 9.4 | 75.3 |
| | | 0+75 | | |
| E | | | 8.2 | 76.5 |
| Crk | | | 8.0 | 76.7 |
| 1/4 | | | 7.2 | 77.5 |
| M | | | 6.1 | 78.6 |
| 1/4 | | | 5.3 | 79.4 |
| Crk | | | 4.3 | 80.4 |
| W | | | 3.3 | 81.4 |
| | | 1+0 | | |
| W | | | 1.2 | 83.5 |
| Crk | | | 3.0 | 81.7 |
| 1/4 | | | 3.5 | 80.9 |
| M | | | 4.7 | 80.0 |
| 1/4 | | | 5.6 | 79.1 |
| Crk | | | 6.3 | 78.4 |
| E | | | 6.6 | 78.1 |
| | | 1+25 | | |
| E | | | 5.0 | 79.7 |
| Crk | | | 4.2 | 80.5 |
| 1/4 | | | 3.5 | 81.2 |
| M | | | 2.9 | 81.8 |
| 1/4 | | | 2.3 | 82.4 |
| Crk | | | 0.6 | 84.1 |
| W | | | +1.0 | 85.7 |
| T.P. | 12.01 | 96.05 | 0.67 | 84.04 |

96.05

1+50

| | | | |
|---|---|---|---|
| W | | 7.0 | 89.0 |
| Crk | | 8.6 | 87.4 |
| ¼ | | 9.5 | 86.5 |
| M | | 10.2 | 85.8 |
| ¼ | | 11.4 | 84.6 |
| Crk | | 12.4 | 83.6 |
| E | | 14.2 | 81.8 |

1+75

| | | | |
|---|---|---|---|
| E | | 11.9 | 84.1 |
| Crk | | 10.3 | 85.7 |
| ¼ | | 8.8 | 87.2 |
| M | | 6.8 | 89.2 |
| ¼ | | 5.2 | 90.8 |
| Crk | | 4.2 | 91.8 |
| W | | 3.0 | 93.0 |

2+00

| | | | | | |
|---|---|---|---|---|---|
| W | | | | 0.5 | 95.25 |
| Crk | | | | 1.8 | 94.2 |
| ¼ | | | | 3.8 | 92.2 |
| M | | | | 5.2 | 90.8 |
| ¼ | | | | 7.1 | 88.9 |
| Crk | | | | 8.7 | 87.3 |
| E | | | | 10.1 | 85.9 |

2+25

| | | | | | |
|---|---|---|---|---|---|
| E | | | | 8.3 | 87.7 |
| Crk | | | | 7.0 | 89.0 |
| ¼ | | | | 5.2 | 90.8 |
| M | | | | 3.4 | 92.6 |
| ¼ | | | | 1.8 | 94.2 |
| T.P. | 12.11 | 107.72 | | 0.49 | 95.61 |
| Crk | | | | 11.3 | 96.4 |
| W | | | | 9.9 | 97.8 |

| | | | |
|---|---|---|---|
| | 107.72 | | |
| | 2+50 | | |
| W | | 7.1 | 100.6 |
| Crb | | 8.6 | 99.1 |
| ¼ | | 10.6 | 97.1 |
| M | | 12.1 | 95.6 |
| ¼ | | 13.8 | 93.9 |
| Crb | | 15.6 | 92.1 |
| E | | 17.3 | 90.4 |
| | 2+75 | | |
| E | | 14.2 | 93.5 |
| Crb | | 12.1 | 95.6 |
| ¼ | | 9.9 | 97.8 |
| M | | 8.8 | 98.9 |
| ¼ | | 6.7 | 101.0 |
| Crb | | 5.4 | 102.3 |
| W | | 3.4 | 104.3 |

| | | | | |
|---|---|---|---|---|
| | | 2+87 | | |
| W | | | 1.8 | 105.9 |
| Crb | | | 2.6 | 105.1 |
| ¼ | | | 4.8 | 102.9 |
| M | | | 6.9 | 100.8 |
| ¼ | | | 8.0 | 99.7 |
| Crb | | | 10.0 | 97.7 |
| E | | | 10.2 | 97.5 |
| T.P | 12.53 | 120.16 | 0.09 | 107.63 |
| | 3+0-3.4 of "A" st graded | | | |
| E | | | 14.2 | 106.0 |
| Crb | | | 14.2 | 106.0 |
| ¼ | | | 13.5 | 106.7 |
| M | | | 13.1 | 107.1 |
| ¼ | | | 13.0 | 107.7 |
| Crb | | | 12.6 | 107.6 |
| W | | | 12.1 | 108.1 |

| | | | | |
|---|---|---|---|---|
| | | 120.16 | | |
| | | N.L. "A" St | | |
| W | | | 1.8 | 118.4 |
| crb | | | 4.0 | 116.2 |
| 1/4 | | | 5.5 | 114.7 |
| M | | | 6.9 | 113.3 |
| 1/4 | | | 7.8 | 112.4 |
| crb | | | 8.8 | 111.4 |
| E | | | 10.3 | 109.9 |
| | | 0+25 N of "A" | | |
| E | | | 5.7 | 114.5 |
| crb | | | 4.8 | 115.4 |
| 1/4 | | | 4.5 | 115.7 |
| M | | | 3.5 | 116.7 |
| 1/4 | | | 2.1 | 118.1 |
| crb | | | 0.1 | 120.1 |
| T.P. | 12.32 | 132.39 | 0.09 | 120.07 |
| W | | | 10.3 | 122.1 |

| | | | | |
|---|---|---|---|---|
| | | 132.39 | | |
| | | 0+50 | | |
| W | | | 6.3 | 126.1 |
| crb | | | 8.3 | 123.1 |
| 1/4 | | | 10.7 | 121.7 |
| M | | | 12.4 | 120.0 |
| 1/4 | | | 13.7 | 118.7 |
| crb | | | 15.2 | 117.2 |
| E | | | 15.9 | 116.5 |
| | | 0+75 | | |
| E | | | 12.0 | 120.4 |
| crb | | | 12.6 | 119.8 |
| 1/4 | | | 10.5 | 121.9 |
| M | | | 8.9 | 123.4 |
| 1/4 | | | 6.8 | 125.6 |
| crb | | | 5.1 | 127.3 |
| W | | | 4.1 | 128.3 |

132.39

1+06 2/ on W.L. & 1+05 7 on E.L. = Park Line

| | | |
|---|---|---|
| W | 0.8 | 131.6 |
| Crk | 2.4 | 130.0 |
| 1/4 | 3.6 | 128.8 |
| M | 6.2 | 126.2 |
| 1/4 | 8.0 | 124.4 |
| Crk | 10.2 | 122.2 |
| E | 11.8 | 120 6 |

Levels Park Blvd University to El Cajon 4/21/11 Dunkle Shaw Tichenor

| | | | | | |
|---|---|---|---|---|---|
| B.M. SPK N.W. University & Park | | | | 315.91 | |
| B.M. | 9.90 | 325.81 | | | |
| 0+0 = N.L. University on W.L. Park | | | | | |
| W.L. | | | 10.2 | 315.6 | |
| +5 | | | 11.3 | 314.5 | |
| Crb | | | 11.4 | 314.4 | |
| 0+25 N = N.L. University on E.L. Park | | | | | |
| −4 | | | 13.7 | 312.1 | |
| W.L. | | | 12.0 | 313.8 | |
| +2 | | | 11.1 | 314.7 | |
| W crb | | | 11.4 | 314.4 | |
| E crb | | | 7.3 | 318.5 | |
| +18 | | | 6.5 | 319.3 | |
| E.L. | | | 5.5 | 320.3 | |

| | | | | |
|---|---|---|---|---|
| | | 0+50 | | |
| E.L. | | | 5.3 | 320.5 |
| +3 | | | 6.1 | 319.7 |
| E crb | | | 7.1 | 318.7 |
| W crb | | | 11.3 | 314.5 |
| +17 | | | 11.5 | 314.3 |
| W.L. | | | 12.3 | 313.5 |
| +5 | | | 14.4 | 311.4 |
| | | 0+75 | | |
| −5 | | | 13.8 | 312.0 |
| W.L. | | | 11.7 | 314.1 |
| +2 | | | 11.1 | 314.7 |
| W.crb | | | 10.9 | 314.9 |
| E.crb | | | 5.9 | 319.9 |
| +18 | | | 5.4 | 320.4 |
| E.L. | | | 4.4 | 321.4 |
| | | 1+0 | | |
| E.L. | | | 3.9 | 321.9 |
| +2 | | | 4.7 | 321.1 |
| E. crb | | | 5.1 | 320.7 |
| W " | | | 10.3 | 315.5 |
| +17 | | | 10.4 | 315.4 |
| W.L. | | | 11.7 | 314.1 |
| +5 | | | 13.8 | 312.0 |
| | | 1+25 | | |
| W.L. | | | 10.1 | 315.7 |
| W.crb | | | 9.7 | 316.1 |
| E " | | | 4.8 | 321.0 |
| E.L. | | | 3.6 | 322.2 |
| +4 | | | 2.1 | 323.7 |

| | | | | |
|---|---|---|---|---|
| | | 325.81 | | |
| | | 1+50 | | |
| −4 | | | 0.1 | 325.7 |
| E.L. | | | 1.6 | 324.2 |
| +4 | | | 3.5 | 322.3 |
| E. Crk | | | 3.7 | 322.1 |
| W. " | | | 9.1 | 316.7 |
| W. L. | | | 9.4 | 316.4 |
| | | 1+75 | | |
| W. L. | | | 8.7 | 317.1 |
| W. Crk | | | 8.4 | 317.4 |
| E. " | | | 3.2 | 322.6 |
| + 19 bot wall | | | 2.4 | 323.4 |
| Top wall E.L. | | | 0.3 | 325.5 |
| | | 2+0 | | |
| Top wall E.L. | | | 0.1 | 325.7 |
| bot " " " | | | 1.4 | 324.4 |
| E. Crk | | | 2.0 | 323.8 |
| W. " | | | 7.6 | 318.2 |
| W. L. | | | 8.0 | 317.8 |
| T. P. | 10.96 | 333.06 | 3.71 | 322.10 |
| | | 2+25 | | |
| W. L. | | | 14.4 | 318.7 |
| W. Crk | | | 14.1 | 319.0 |
| E. " | | | 8.7 | 324.4 |
| + 16 | | | 8.9 | 324.7 |
| E.L. | | | 7.2 | 325.9 |
| +3 | | | 6.0 | 327.1 |

| | | | |
|---|---|---|---|
| | 2+50 | | |
| −5 | | 5.3 | 327.8 |
| E.L. | | 6.8 | 326.3 |
| +4 | | 8.0 | 325.1 |
| E. Crk | | 8.3 | 324.8 |
| W. " | | 13.5 | 319.6 |
| W. L. | | 13.5 | 319.6 |
| | 2+75 | | |
| W. L. | | 12.7 | 320.4 |
| W. Crk | | 12.7 | 320.4 |
| E. Crk | | 7.7 | 325.4 |
| +16 | | 7.6 | 325.5 |
| E.L. | | 6.9 | 326.7 |
| +3 | | 5.1 | 328.0 |
| | 3+0 | | |
| −5 | | 4.3 | 328.8 |
| E.L. | | 5.7 | 329.4 |
| +4 | | 7.1 | 326.0 |
| E. Crk | | 7.3 | 325.8 |
| W. Crk | | 11.8 | 321.3 |
| W. L. | | 12.3 | 320.8 |
| | 3+25 | | |
| W. L. | | 11.5 | 321.6 |
| W. Crk | | 11.5 | 321.6 |
| E. " | | 7.0 | 326.1 |
| +15 | | 6.6 | 326.5 |
| E.L. | | 5.0 | 328.1 |
| +4 | | 3.8 | 329.3 |

| | | | |
|---|---|---|---|
| | 3+50 | | |
| − 4 | | 3.6 | 329.5 |
| E.L. | | 4.8 | 328.3 |
| + 5 | | 6.2 | 326.9 |
| E. crk | | 6.6 | 326.5 |
| W. " | | 11.0 | 322.1 |
| + 17 | | 11.0 | 322.1 |
| W.L. | | 12.1 | 321.0 |
| + 5 | | 14.4 | 318.7 |
| | 3+75 | | |
| − 5 | | 13.3 | 319.8 |
| W.L. | | 11.2 | 321.9 |
| + 3 | | 10.2 | 322.9 |
| W. crk | | 10.2 | 322.9 |
| E. " | | 6.5 | 326.6 |
| + 16 | | 5.9 | 327.2 |
| E.L. | | 4.9 | 328.2 |
| + 6 | | 3.7 | 329.4 |
| | 4+0 | | |
| − 6 | | 3.7 | 329.4 |
| E.L. | | 4.9 | 328.2 |
| + 4 | | 5.7 | 327.4 |
| E. crk | | 6.3 | 326.8 |
| W. " | | 9.6 | 323.5 |
| W.L. | | 9.5 | 323.6 |

| | | | |
|---|---|---|---|
| | 4+25 | | |
| − 3 | | 11.6 | 321.5 |
| W.L. | | 10.4 | 322.7 |
| + 3 | | 9.3 | 323.8 |
| W. crk | | 9.0 | 324.1 |
| E. crk | | 5.8 | 327.3 |
| + 18 | | 5.3 | 327.8 |
| E.L. | | 4.5 | 328.6 |
| + 5 | | 3.3 | 329.8 |
| | 4+50 | | |
| + 4 | | 3.2 | 329.9 |
| E.L. | | 4.3 | 328.8 |
| + 2 | | 4.8 | 328.3 |
| E. crk | | 5.5 | 327.6 |
| W. " | | 8.3 | 324.8 |
| + 17 | | 8.6 | 324.5 |
| W.L. | | 9.7 | 323.4 |
| + 9 | | 11.0 | 322.1 |
| | 4+75 | | |
| − 5 | | 10.1 | 323.0 |
| W.L. | | 9.0 | 324.1 |
| + 4 | | 8.0 | 325.1 |
| W. crk | | 7.4 | 325.7 |
| E. " | | 5.0 | 328.1 |
| + 18 | | 4.3 | 328.8 |
| E.L. | | 3.7 | 329.4 |
| + 3. | | 2.7 | 330.4 |

| | | | |
|---|---|---|---|
| | 333.06 | | |
| | 5+0 | | |
| — 3 | 333.1 | 2.4 | 330.7 |
| E.L. | | 3.0 | 330.1 |
| +4 | | 4.2 | 328.9 |
| E. crb | | 4.7 | 328.4 |
| W. crb | | 6.7 | 326.4 |
| W. L. | | 7.5 | 325.6 |
| | 5+25 | | |
| W. L. | | 7.0 | 326.1 |
| W. crb | | 6.4 | 326.7 |
| E. " | | 4.3 | 328.8 |
| + 18 | | 3.5 | 329.6 |
| E. L. | | 2.8 | 330.3 |
| +5. | | 1.8 | 331.3 |
| | 5+50 | | |
| — 4 | | 2.1 | 331.0 |
| E. L. | | 2.8 | 330.3 |
| +2 | | 3.3 | 329.8 |
| E. crb | | 3.8 | 329.3 |
| W. crb | | 5.3 | 327.8 |
| W. L. | | 5.6 | 327.5 |
| | 5+75 | | |
| W. L. | | 5.0 | 328.1 |
| W. crb | | 4.9 | 328.2 |
| E. crb | | 3.4 | 329.7 |
| + 18 | | 2.8 | 330.3 |
| E. L. | | 2.3 | 330.8 |
| +2 | | 1.7 | 331.4 |

5+99 = S.L. Lincoln on E.L. Park

58

| | | | |
|---|---|---|---|
| — 2 | | 1.2 | 331.9 |
| E.L. | | 1.5 | 331.6 |
| +3 | | 2.0 | 331.1 |
| E. crb | | 2.4 | 330.7 |
| W. " | | 4.1 | 329.0 |
| W. L. | | 4.2 | 328.9 |

6+39 = S.L. Lincoln on W.L. Park

| | | | | | |
|---|---|---|---|---|---|
| W. L. | | | | 2.50 | 330.56 |
| Crb cement curb on Lincoln | | | | 2.75 | 330.31 |
| T.P. | 9.56 | 341.86 | | 0.76 | 332.30 |

Note-Cement curb & Side walk on W.L. of Park from Lincoln for 215.5' N

341.86

0+0 = N.L. Lincoln on W.L. Park.

| | | | |
|---|---|---|---|
| | 0+0 | | |
| W.L. | | 9.50 | 334.4 |
| W. crb | | 9.75 | 334.1 |
| | 0+25 | | |
| −4 | | 7.2 | |
| W.L. | | 8.0 | |
| +7 | | 9.2 | |
| crb | | 9.45 | 334.4 |
| | 0+50 | | |
| −5 | | 6.8 | |
| W.L. | | 7.8 | |
| +7 | | 8.75 | |
| crb | | 9.05 | 332.8 |
| | 0+75 | | |
| −4 | | 6.4 | |
| W.L. | | 7.0 | |
| +7 | | 8.4 | |
| crb | | 8.65 | 333.2 |
| | 1+0 | | |
| −6 | | 5.6 | |
| W.L. | | 7.0 | |
| +7 | | 8.1 | |
| crb | | 8.35 | 333.5 |
| | 1+25 | | |
| −6 | | 5.1 | |
| W.L. | | 6.6 | |
| +7 | | 7.8 | |
| crb | | 8.00 | 333.9 |
| | 1+50 | | |
| −3 | | 4.5 | |
| W.L. | | 5.5 | |
| +7 | | 7.3 | |
| crb | | 7.65 | 334.2 |
| | 1+75 | | |
| −4 | | 4.6 | |
| W.L. | | 6.0 | |
| +7 | | 6.9 | |
| crb | | 7.20 | 334.7 |
| | 2+0 | | |
| −5 | | 4.5 | |
| W.L. | | 5.9 | |
| +7 | | 6.4 | |
| crb | | 6.85 | 335.00 |
| | 2+15.5 = end of cement crb. | | |
| −3 | | 4.7 | |
| W.L. | | 5.5 | 336.4 |
| +7 | | 6.2 | |
| crb | | 6.65 | 335.2 |
| | 2+50 | | |
| −3 | | 4.8 | |
| W.L. | | 5.8 | 336.1 |
| crb | | 6.0 | |

341.86

2+75

| | | | |
|---|---|---|---|
| W.L. | | 5.6 | 336.3 |
| Crb | | 6.0 | |

3+0

| | | | |
|---|---|---|---|
| W.L. | | 5.4 | 336.5 |
| Crb | | 5.7 | |

3+25

| | | | |
|---|---|---|---|
| W.L. | | 5.2 | 336.7 |
| Crb | | 5.4 | |

3+50

| | | | |
|---|---|---|---|
| W.L. | | 4.7 | 337.2 |
| Crb | | 4.9 | |

3+75

| | | | |
|---|---|---|---|
| W.L. | | 4.4 | 337.5 |
| Crb | | 4.7 | |

4+0

| | | | |
|---|---|---|---|
| W.L. | | 4.0 | 337.9 |
| Crb | | 4.4 | |

4+25

| | | | |
|---|---|---|---|
| W.L. | | 3.7 | 338.2 |
| Crb | | 3.8 | |

4+52.9 = intersection W.L. Park & E.L. Center

Note- Cement Curb & sidewalk on E.L. of Park from N.L. Lincoln For 100' N.

241.86

60

0+0 = N.L. Lincoln on W.L. Park

0+0

| | | | |
|---|---|---|---|
| E.L. | | 9.20 | |
| Crb | | 9.55 | 334.31 |

0+25

| | | | |
|---|---|---|---|
| E.L. | | 8.6 | |
| +7 | | 9.0 | |
| Crb | | 9.35 | 334.51 |

0+50

| | | | |
|---|---|---|---|
| E.L. | | 5.2 | |
| +7 | | 8.7 | |
| Crb | | 9.05 | 334.81 |

0+75

| | | | |
|---|---|---|---|
| E.L. | | 8.1 | |
| +7 | | 8.5 | |
| Crb | | 8.90 | 334.96 |

1+0 = end of cement curb

| | | | |
|---|---|---|---|
| E.L. | | 8.0 | 334 |
| +7 | | 8.3 | |
| Crb | | 8.55 | 333.31 |

| | | | | |
|---|---|---|---|---|
| | 341.86 | | | |
| | 1+25 | | | |
| -5 | | 7.5 | | |
| E.L. | | 7.8 | 334.1 | |
| Crh | | 8.0 | | |
| | 1+50 | | | |
| -5 | | 6.6 | | |
| E.L. | | 7.5 | 334.4 | |
| Crh | | 7.8 | | |
| | 1+75 | | | |
| -5 | | 7.0 | | |
| E.L. | | 7.5 | 334.4 | |
| Crh | | 7.6 | | |
| | 2+0 | | | |
| -5 | | 6.4 | | |
| E.L. | | 7.1 | 334.8 | |
| Crh | | 7.6 | | |
| | 2+25 | | | |
| -5 | | 6.9 | | |
| E.L. | | 7.1 | 334.8 | |
| Crh | | 7.3 | | |
| | 2+50 | | | |
| -5 | | 6.2 | | |
| E.L. | | 6.8 | 335.1 | |
| Crh | | 7.1 | | |

| | | | |
|---|---|---|---|
| | 2+75 | | |
| E.L. | | 6.8 | 335.1 |
| Crh | | 6.9 | |
| | 3+0 | | |
| E.L. | | 6.3 | 335.6 |
| Crh | | 6.5 | |
| | 3+25 | | |
| E.L. | | 6.0 | 335.9 |
| Crh | | 6.1 | |
| | 3+50 | | |
| E.L. | | 5.8 | 336.1 |
| Crh | | 5.8 | |
| | 3+75 | | |
| E.L. | | 5.4 | 336.5 |
| Crh | | 5.6 | |
| | 4+0 | | |
| E.L. | | 5.6 | 336.3 |
| Crh | | 5.6 | |
| | 4+25 | | |
| -3 | | 5.8 | |
| E.L. | | 5.2 | 336.7 |
| Crh | | 5.4 | |
| | 4+50 | | |
| -3 | | 5.7 | |
| E.L. | | 5.0 | 336.9 |
| Crh | | 5.2 | |

| | | | | |
|---|---|---|---|---|
| | | 341.86 | | |
| | | 4+75 | | |
| | − 3 | | 5.3 | |
| | E.L. | | 4.8 | 337.1 |
| | Crh. | | 4.9 | |
| | | 5+0 | | |
| | − 3 | | 5.3 | |
| | E.L. | | 4.7 | 337.2 |
| | Crh | | 4.9 | |
| | | 5+25 | | |
| | − 3 | | 5.3 | |
| | E.L. | | 4.7 | 337.2 |
| | Crh | | 4.8 | |
| | | 5+50 | | |
| | − 3 | | 4.5 | |
| | E.L. | | 4.0 | 337.9 |
| | Crh | | 4.3 | |
| | | 5+75 | | |
| | − 3 | | 4.2 | |
| | E.L. | | 3.5 | 338.4 |
| | Crh | | 4.0 | |
| | | 6+0 = S.L. Polk St | | |
| | E.L. | | 3.2 | 338.7 |
| | Crh | | 3.6 | |
| T.P. | 5.97 | 347.37 | 0.46 | 341.40 |

| | | | | |
|---|---|---|---|---|
| | | 347.37 | | |
| | | 0+0 = N.L. Campus on W.L. Park | | |
| | | 0+0 | | |
| | W.L. | | 5.0 | 342.4 |
| | Crh | | 5.3 | 342.1 |
| | | 0+25 N | | |
| | W.L. | | 4.6 | 342.8 |
| | Crh | | 5.1 | 342.3 |
| | | 0+50 | | |
| | W.L. | | 4.6 | 342.8 |
| | Crh | | 4.8 | 342.6 |
| | | 0+75 | | |
| | W.L. | | 4.3 | 343.1 |
| | Crh | | 4.6 | .8 |
| | | 1+0 | | |
| | W.L. | | 4.0 | 343.4 |
| | Crh | | 4.4 | 343.0 |
| | | 1+25 | | |
| | W.L. | | 4.0 | 343.4 |
| | Crh | | 4.3 | |
| | | 1+50 | | |
| | W.L. | | 3.8 | 343.6 |
| | Crh | | 4.3 | 343.1 |
| | | 1+75 | | |
| | W.L. | | 4.1 | 343.3 |
| | Crh | | 4.5 | |

| | | | |
|---|---|---|---|
| | 347.37 | | |
| | 2+00 | | |
| W.L. | | 4.3 | 3+3.1 |
| Crk | | 4.5 | 3+N.9 |
| | 2+25 | | |
| — 2 | | 3.1 | |
| W.L. | | 4.0 | 3+3.4 |
| Crk | | 4.2 | .2 |
| | 2+50 | | |
| — 2 | | 3.0 | |
| W.L. | | 3.9 | 3+3.5 |
| Crk | | 4.3 | 3+3.1 |
| | 2+75 | | |
| — 2 | | 3.3 | |
| W.L. | | 4.1 | 3+3.3 |
| Crk | | 4.4 | |
| | 3+00 | | |
| — 2 | | 3.2 | |
| W.L. | | 4.4 | 3+3.0 |
| Crk | | 4.6 | 3+N.8 |
| | 3+25 | | |
| — 2 | | 3.2 | |
| W.L. | | 4.4 | 3+3.0 |
| Crk | | 4.8 | |

| | | | |
|---|---|---|---|
| | 3+50 | | |
| — 2 | | 2.8 | |
| W.L. | | 4.3 | 3+3.1 |
| Crk | | 4.9 | 3+N.5 |
| | 3+75 | | |
| W.L. | | 4.2 | 3+3.2 |
| Crk | | 4.8 | |
| | 4+00 | | |
| W.L. | | 4.5 | 3+N.9 |
| Crk | | 4.9 | 3+N.5 |
| | 4+25 | | |
| W.L. | | 4.5 | 3+N.9 |
| Crk | | 4.9 | |
| | 4+50 | | |
| W.L. | | 4.7 | 3+N.7 |
| Crk | | 4.9 | 3+N.5 |
| | 4+75 | | |
| W.L. | | 4.7 | 3+N.7 |
| Crk | | 50 | |
| | 5+00 | | |
| W.L. | | 4.8 | 3+5.6 |
| Crk | | 5.1 | |
| | 5+25 | | |
| W.L. | | 4.8 | 3+N.6 |
| Crk | | 5.1 | |

347.37

5+50

W.L. 4.9 3+2.5
Crb 5.3

Note Cement curb & sdwk from 5+86 to E.L. University

5+86

W.L. 4.6
Crb 4.70 2+2.67

6+0

W.L. 4.4
Crb 4.60 3+2.77

6+25

W.L. 4.3
Crb 4.50 3+2.87

6+50

W.L. 3.9
Crb 4.45 3+2.92

6+86 = E.L. Univ

W.L. 3.9
Crb 4.35 3+3.02

347.37

1+0 = W.L. Polk on E.L. Park Blvd.

64

0+0

E.L. 7.8 339.6
Crb 8.0

0+25

-5 11.1
E.L. 7.9 339.5
Crb 7.8

0+50

E.L. 7.7 339.7
Crb 7.4

0+75

E.L. 7.2 3+0.2
Crb 7.2

1+0

E.L. 7.0 3+0.4
Crb 7.3

1+25

-5 9.0
E.L. 7.2 3+0.2
Crb 7.2

1+50

-5 8.8
E.L. 7.2 3+0.2
Crb 7.1

347.37

1+75

| | | | |
|---|---|---|---|
| −5 | | | |
| E.L. | | 9.2 | |
| | | 6.9 | 340.5 |
| crb | | | |
| | | 7.0 | |
| | 2+0 | | |
| E.L. | | | |
| crb | | 6.8 | 340.6 |
| | | 6.9 | |
| | 2+25 | | |
| E.L. | | | |
| crb | | 6.7 | 340.7 |
| | | 6.7 | |
| | 2+50 | | |
| E.L. | | | |
| crb | | 6.4 | 341.0 |
| | | 6.4 | |
| | 2+75 | | |
| E.L. | | | |
| crb | | 6.5 | 340.9 |
| | | 6.4 | |
| | 3+0 | | |
| E.L. | | | |
| crb | | 6.7 | 340.7 |
| | | 6.3 | |
| | 3+25 | | |
| E.L. | | | |
| crb | | 6.5 | 340.9 |
| | | 6.3 | |
| | 3+50 | | |
| E.L. | | | |
| crb | | 6.4 | 341.0 |
| | | 6.3 | |



| | | | |
|---|---|---|---|
| | 3+75 | | |
| E.L. | | 6.5 | 340.9 |
| crb | | 6.6 | |
| | 4+0 | | |
| E.L. | | 6.8 | 340.6 |
| crb | | 6.6 | |
| | 4+25 | | |
| E.L. | | 6.9 | 340.5 |
| crb | | 6.8 | |
| | 4+50 | | |
| E.L. | | 7.0 | 340.4 |
| crb | | 7.1 | |
| | 4+75 | | |
| E.L. | | 7.1 | 340.3 |
| crb | | 7.2 | |
| | 5+0 | | |
| −5 | | 8.2 | |
| E.L. | | 7.3 | 340.1 |
| crb | | 7.3 | |
| | 5+25 | | |
| −5 | | 8.5 | |
| E.L. | | 7.6 | 339.8 |
| crb | | 7.2 | |

347.37 H.I.

5+50

| | | | |
|---|---|---|---|
| -5 | | 9.9 | |
| E.L. | | 7.7 | 339.7 |
| crh | | 7.7 | |

5+75

| | | | |
|---|---|---|---|
| -5 | | 10.1 | |
| E.L. | | 7.8 | 339.6 |
| crh | | 7.8 | |

6+0 = S.L. Howard,

| | | | |
|---|---|---|---|
| -5 | | 10.5 | |
| E.L. | | 7.9 | 339.6 |
| crh | | 8.0 | |
| T.P. | 5.29 | 344.79 | 7.87 | 339.50 |

N.L. Howard

| | | | |
|---|---|---|---|
| -5 | | 8.0 | |
| E.L. | | 6.1 | 338.7 |
| crh | | 6.1 | |

0+25 N

| | | | |
|---|---|---|---|
| -5 | | 8.8 | |
| E.L. | | 5.7 | 339.1 |
| crh | | 5.6 | |

344.79

0+50

| | | | |
|---|---|---|---|
| -5 | | 8.0 | |
| E.L. | | 5.3 | 339.5 |
| crh | | 5.4 | |

0+75

| | | | |
|---|---|---|---|
| -5 | | 8.0 | |
| E.L. | | 5.7 | 339.1 |
| crh | | 5.5 | |

1+0

| | | | |
|---|---|---|---|
| -5 | | 7.4 | |
| E.L. | | 5.7 | 339.1 |
| crh | | 5.5 | |

1+25

| | | | |
|---|---|---|---|
| -5 | | 7.6 | |
| E.L. | | 5.5 | 339.3 |
| crh | | 5.3 | |

1+50

| | | | |
|---|---|---|---|
| E.L. | | 5.4 | 339.6 |
| crh | | 5.1 | |

1+75

| | | | |
|---|---|---|---|
| -5 | | 6.3 | |
| E.L. | | 5.1 | 339.7 |
| crh | | 5.1 | |

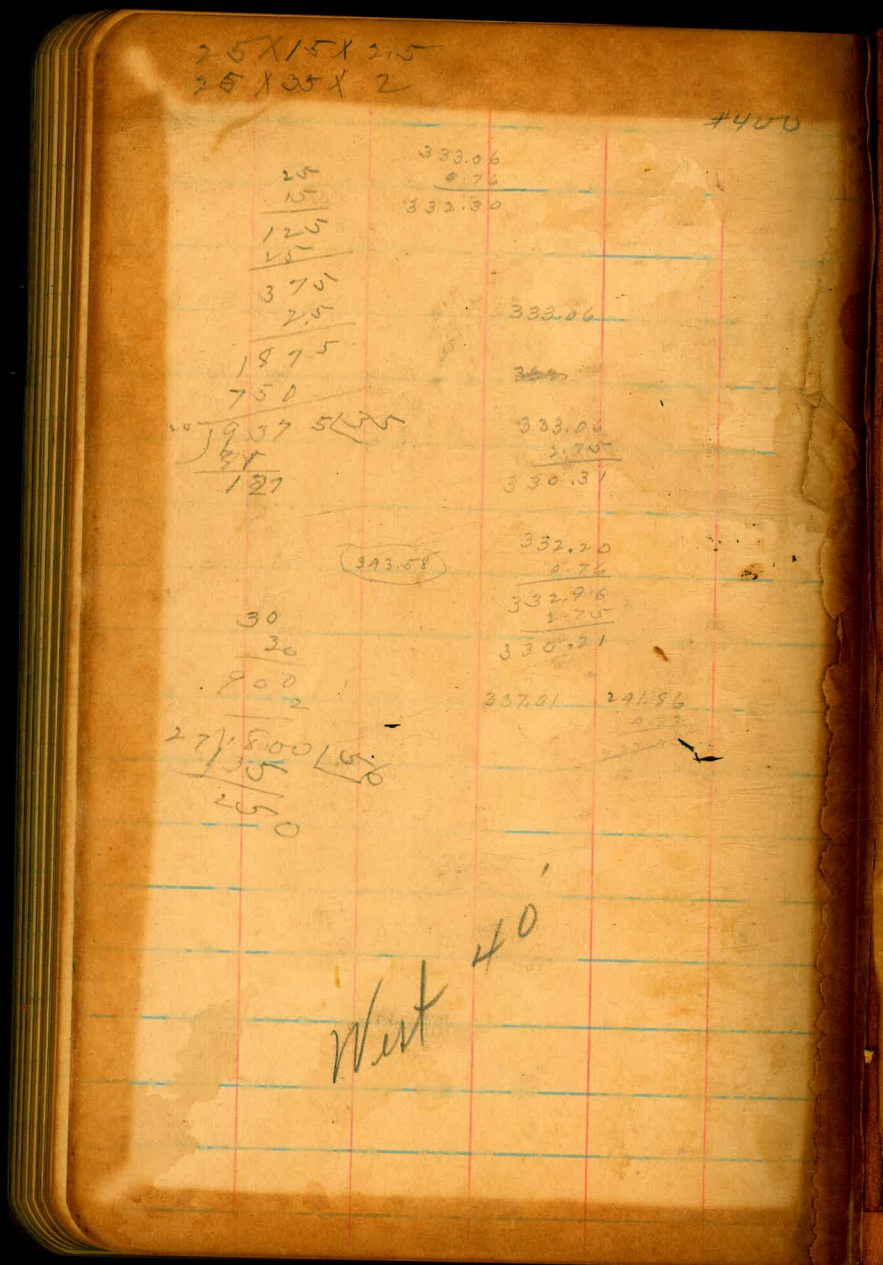
| | | | | |
|---|---|---|---|---|
| | | 344.79 | | |
| | | 2+0 | | |
| −5 | | | 6.1 | |
| E.L. | | | 4.6 | 340.2 |
| crb | | | 5.0 | |
| | | 2+25 | | |
| −5 | | | 6.0 | |
| E.L. | | | 4.6 | 340.2 |
| Crb | | | 4.5 | |
| | | 2+50 | | |
| −5 | | | 6.0 | |
| E.L. | | | 4.1 | 340.7 |
| Crb | | | 4.2 | |
| | | 2+75 | | |
| E.L. | | | 4.1 | 340.7 |
| crb | | | 4.3 | |

Note cement curb & sdwk from sta 3+07 to S.L. El Cajon

| | | | | |
|---|---|---|---|---|
| | | 3+07 | ~~4.~~ | |
| E.L. | | | 4.1 | |
| crb | | | 4.45 | 340.34 |

3+37 = S.L. El Cajon

| | | | | |
|---|---|---|---|---|
| E.L. | | | 4.3 | |
| crb | | | 4.75 | 340.04 |



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# TRAVERSE TABLE FOR TRANSIT BOOK.

## From 1° to 90° for a distance of 100.

| Degrees. | DEGREES. | | ¼ DEGREE. | | ½ DEGREE. | | ¾ DEGREE. | | Degrees. |
|---|---|---|---|---|---|---|---|---|---|
| | Lat. | Dep. | Lat. | Dep. | Lat. | Dep. | Lat. | Dep. | |
| 0 | | | 100.00 | 0.44 | 100.00 | 0.87 | 99.99 | 1.31 | 89 |
| 1 | 99.98 | 1.75 | 99.98 | 2.18 | 99.97 | 2.62 | 99.95 | 3.05 | 88 |
| 2 | 99.94 | 3.49 | 99.92 | 3.93 | 99.91 | 4.36 | 99.88 | 4.80 | 87 |
| 3 | 99.86 | 5.23 | 99.84 | 5.67 | 99.81 | 6.10 | 99.79 | 6.54 | 86 |
| 4 | 99.76 | 6.98 | 99.73 | 7.41 | 99.69 | 7.85 | 99.66 | 8.28 | 85 |
| 5 | 99.62 | 8.72 | 99.58 | 9.15 | 99.54 | 9.58 | 99.50 | 10.02 | 84 |
| 6 | 99.45 | 10.45 | 99.41 | 10.89 | 99.36 | 11.32 | 99.31 | 11.75 | 83 |
| 7 | 99.25 | 12.19 | 99.20 | 12.62 | 99.14 | 13.05 | 99.09 | 13.49 | 82 |
| 8 | 99.03 | 13.92 | 98.97 | 14.35 | 98.90 | 14.78 | 98.84 | 15.21 | 81 |
| 9 | 98.77 | 15.64 | 98.70 | 16.07 | 98.63 | 16.50 | 98.56 | 16.93 | 80 |
| 10 | 98.48 | 17.36 | 98.40 | 17.79 | 98.33 | 18.22 | 98.25 | 18.65 | 79 |
| 11 | 98.16 | 19.08 | 98.08 | 19.51 | 97.99 | 19.94 | 97.90 | 20.36 | 78 |
| 12 | 97.81 | 20.79 | 97.72 | 21.22 | 97.63 | 21.64 | 97.53 | 22.07 | 77 |
| 13 | 97.44 | 22.50 | 97.34 | 22.92 | 97.24 | 23.34 | 97.13 | 23.77 | 76 |
| 14 | 97.03 | 24.19 | 96.92 | 24.62 | 96.81 | 25.04 | 96.70 | 25.46 | 75 |
| 15 | 96.59 | 25.88 | 96.48 | 26.30 | 96.36 | 26.72 | 96.25 | 27.14 | 74 |
| 16 | 96.13 | 27.56 | 96.00 | 27.98 | 95.88 | 28.40 | 95.76 | 28.82 | 73 |
| 17 | 95.63 | 29.24 | 95.50 | 29.65 | 95.37 | 30.07 | 95.24 | 30.49 | 72 |
| 18 | 95.11 | 30.90 | 94.97 | 31.32 | 94.83 | 31.73 | 94.69 | 32.14 | 71 |
| 19 | 94.55 | 32.56 | 94.41 | 32.97 | 94.26 | 33.38 | 94.12 | 33.79 | 70 |
| 20 | 93.97 | 34.20 | 93.82 | 34.61 | 93.67 | 35.02 | 93.51 | 35.43 | 69 |
| 21 | 93.36 | 35.84 | 93.20 | 36.24 | 93.04 | 36.65 | 92.88 | 37.06 | 68 |
| 22 | 92.72 | 37.46 | 92.55 | 37.86 | 92.39 | 38.27 | 92.22 | 38.67 | 67 |
| 23 | 92.05 | 39.07 | 91.88 | 39.47 | 91.71 | 39.87 | 91.53 | 40.27 | 66 |
| 24 | 91.35 | 40.67 | 91.18 | 41.07 | 91.00 | 41.47 | 90.81 | 41.87 | 65 |
| 25 | 90.63 | 42.26 | 90.45 | 42.66 | 90.26 | 43.05 | 90.07 | 43.44 | 64 |
| 26 | 89.88 | 43.84 | 89.69 | 44.23 | 89.49 | 44.62 | 89.30 | 45.01 | 63 |
| 27 | 89.10 | 45.40 | 88.90 | 45.79 | 88.70 | 46.17 | 88.50 | 46.56 | 62 |
| 28 | 88.29 | 46.95 | 88.09 | 47.33 | 87.88 | 47.72 | 87.67 | 48.10 | 61 |
| 29 | 87.46 | 48.48 | 87.25 | 48.86 | 87.04 | 49.24 | 86.82 | 49.62 | 60 |
| 30 | 86.60 | 50.00 | 86.38 | 50.38 | 86.16 | 50.75 | 85.94 | 51.13 | 59 |
| 31 | 85.72 | 51.50 | 85.49 | 51.88 | 85.26 | 52.25 | 85.04 | 52.62 | 58 |
| 32 | 84.80 | 52.99 | 84.57 | 53.36 | 84.34 | 53.73 | 84.10 | 54.10 | 57 |
| 33 | 83.87 | 54.46 | 83.63 | 54.83 | 83.39 | 55.19 | 83.15 | 55.56 | 56 |
| 34 | 82.90 | 55.92 | 82.66 | 56.28 | 82.41 | 56.64 | 82.16 | 57.00 | 55 |
| 35 | 81.92 | 57.36 | 81.66 | 57.71 | 81.41 | 58.07 | 81.16 | 58.42 | 54 |
| 36 | 80.90 | 58.78 | 80.64 | 59.13 | 80.39 | 59.48 | 80.13 | 59.83 | 53 |
| 37 | 79.86 | 60.18 | 79.60 | 60.53 | 79.34 | 60.88 | 79.07 | 61.22 | 52 |
| 38 | 78.80 | 61.57 | 78.53 | 61.91 | 78.26 | 62.25 | 77.99 | 62.59 | 51 |
| 39 | 77.71 | 62.93 | 77.44 | 63.27 | 77.16 | 63.61 | 76.88 | 63.94 | 50 |
| 40 | 76.60 | 64.28 | 76.32 | 64.61 | 76.04 | 64.94 | 75.76 | 65.28 | 49 |
| 41 | 75.47 | 65.61 | 75.18 | 65.93 | 74.90 | 66.26 | 74.61 | 66.59 | 48 |
| 42 | 74.31 | 66.91 | 74.02 | 67.24 | 73.73 | 67.56 | 73.43 | 67.88 | 47 |
| 43 | 73.14 | 68.20 | 72.84 | 68.52 | 72.54 | 68.84 | 72.24 | 69.15 | 46 |
| 44 | 71.93 | 69.47 | 71.63 | 69.78 | 71.33 | 70.09 | 71.02 | 70.40 | 45 |
| 45 | 70.71 | 70.71 | | | | | | | |
| Degrees. | Dep. | Lat. | Dep. | Lat. | Dep. | Lat. | Dep. | Lat. | Degrees |
| | DEGREES | | ¾ DEGREE. | | ½ DEGREE. | | ¼ DEGREE. | | |