7th Park to Brooks

Sewer Levels W. of 5th St.

Levels over Air Line Permanent from [illegible] Johnson & Thornton to Alley [illegible] Cypress.

400

LEVEL

F.B. 191

191

*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 | 2 1/3 | 21 | 49 | 41 | 95 2/3 |
| 2 | 4 2/3 | 22 | 51 1/3 | 42 | 98 |
| 3 | 7 | 23 | 53 2/3 | 43 | 100 1/3 |
| 4 | 9 1/3 | 24 | 56 | 44 | 102 2/3 |
| 5 | 11 2/3 | 25 | 58 1/3 | 45 | 105 |
| 6 | 14 | 26 | 60 2/3 | 46 | 107 1/3 |
| 7 | 16 1/3 | 27 | 63 | 47 | 109 2/3 |
| 8 | 18 2/3 | 28 | 65 1/3 | 48 | 112 |
| 9 | 21 | 29 | 67 2/3 | 49 | 114 1/3 |
| 10 | 23 1/3 | 30 | 70 | 50 | 116 2/3 |
| 11 | 25 2/3 | 31 | 72 1/3 | 51 | 119 |
| 12 | 28 | 32 | 74 2/3 | 52 | 121 1/3 |
| 13 | 30 1/3 | 33 | 77 | 53 | 123 2/3 |
| 14 | 32 2/3 | 34 | 79 1/3 | 54 | 126 |
| 15 | 35 | 35 | 81 2/3 | 55 | 128 1/3 |
| 16 | 37 1/3 | 36 | 84 | 56 | 130 1/3 |
| 17 | 39 2/3 | 37 | 86 1/3 | 57 | 133 |
| 18 | 42 | 38 | 88 2/3 | 58 | 135 1/3 |
| 19 | 44 1/3 | 39 | 91 | 59 | 137 2/3 |
| 20 | 46 2/3 | 40 | 93 1/3 | 60 | 140 |

MICROFILMED DEC 1964

Return to City Engineers Office
City Hall, San Diego, Cal.

## 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 |
|---|---|---|---|---|---|---|---|
| o | | o | | o | | o | |
| 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 |

191
Return to City Engineers Office
City Hall, San Diego, Cal.

279.197 ✓
.451
278.746
451
278.295
451
277.844
451
277.393
451
276.942
451
276.491
451
276.040
451
275.589
451
275.138
451
274.687
451
274.236
451
273.785
451
273.334
451
272.883
153
[illegible]

282.44
3.77
286.21

294.25
6.16
288.09 ✓
4.55
292.64

565

451
34
1804
1353
.15334

391.2) 2.2100 (565
19560
25400
23472
79280

.00565
62
1130
3390
.035030

284.85
9.40
294.25
58.8
.00451
588
2940
2352
.265188

64.25
451
6425
32225
25700
.2898675

84.25
.00514
33700
8425
42125
.4330450

282.575
565
283.140
565
283.705
565
284.270
565
284.835

293.55
2.66
296.21
11.40
284.81
3.40
288.21

276.55
.514
277.064
.514
277.578
.514
278.092
.514
278.606
43
279.04

.257
00.514
60
~~30840~~

.565
85
2825
4520
.48025

279.39
9.58
288.97

281.8
4.09
285.89
9.37
276.52

4.88
288.37
293.25 ✓

288.37
3.02
291.39 ✓

281.56
9.83
281.45
9.94
281.23
10.16

281.00
10.39
280.78
10.61
280.33
11.06
280.55
10.84

.07.5
4
.300

5.20
276.02
281.22 ✓
269.87
11.35
269.54
11.63
269.33
11.89
269.07
12.15
268.98
12.24
2.43
278.79

10.67
281.67
292.34 ✓
282
10.34

213 ) 1.014
852
48

1.70
278.79
280.49 ✓
268.44
12.05
268.72
11.77

8.68
276.70 ✓
285.38

203 ) 1.000 (.492
812
1880
1827
530

263.14
3.66
266.80 ✓

.0049
5
.0245

April 25th 1905

Khilds
Lewis
Shaw.



Main Sewer on 5th Street South University ave.

| Sta. | | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| 0 | M.H."A" | 283.71 | 292.89 | 2.9 | 290.0 | 6.3 |
| +50 | | 283.49 | | 3.2 | 289.7 | 6.2 |
| 1 | | 283.26 | | 3.4 | 289.5 | 6.2 |
| +50 | | 283.03 | | 3.8 | 289.1 | 6.1 |
| 2 | | 282.80 | | 4.0 | 288.9 | 6.1 |
| +23 | M.H.#38 | 282.70 | | 4.0 | 288.9 | 6.2 |
| +50 | | 282.58 | | 4.2 | 288.7 | 6.1 |
| 3 | | 282.35 | | 4.4 | 288.5 | 6.1 |
| +50 | | 282.13 | | 4.5 | 288.4 | 6.3 |
| 4 | | 281.90 | | 4.8 | 288.1 | 6.2 |
| +50 | | 281.68 | | 5.1 | 287.8 | 6.1 |
| +75.45 | M.H.# 37 | 281.56 | | 5.4 | 287.5 | 5.9 |
| 5 | | 281.45 | | 5.6 | 287.3 | 5.9 |
| +50 | | 281.23 | | 6.0 | 286.9 | 5.7 |
| 6 | | 281.00 | | 6.5 | 286.4 | 5.4 |

april 25. 1905

| Sta. | | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| | +50 | 280.78 | 292.89 | 7.0 | 285.9 | 5.1 |
| 7 | | 280.55 | | 7.3 | 285.6 | 5.1 |
| | +50 | 280.33 | | 7.7 | 285.2 | 4.9 |
| 8 | | 280.10 | | 8.2 | 284.7 | 4.6 |
| | +00.35 M.H.# 36 | 280.10 | | 8.2 | 284.7 | 4.6 |
| | +50 | 279.88 | | 8.5 | 284.4 | 4.5 |
| 9 | | 279.65 | | 8.9 | 284.0 | 4.4 |
| | +50 | 279.43 | | 9.3 | 283.6 | 4.2 |
| 10 | | 279.20 | 286.21 | 3.0 | 283.2 | 4.0 |
| | +50 | 278.98 | | 3.4 | 282.8 | 3.8 |
| 11 | | 278.75 | | 3.8 | 282.4 | 3.7 |
| | +35 M.H.# 35 | 278.59 | | 4.0 | 282.2 | 3.6 |
| | +50 | 278.53 | | 4.1 | 282.1 | 3.6 |
| 12 | | 278.30 | | 4.4 | 281.8 | 3.5 |
| | +50 | 278.07 | | 4.7 | 281.5 | 3.4 |

April 26 1905

Childs
Lewis
Shaw.

| Sta. | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|
| 13 | 277.84 | 286.21 | 4.9 | 281.3 | 3.5 |
| +50 | 277.62 | | 5.1 | 281.1 | 3.5 |
| 14 | 277.39 | | 5.3 | 280.9 | 3.5 ✓ |
| +50 | 277.17 | | 5.5 | 280.7 | 3.5 |
| +58.8 M.H.#34 | 277.12 | | 5.6 | 280.6 | 3.5 ✓ |
| 15 | 276.94 | | 5.7 | 280.5 | 3.6 |
| +50 | 276.72 | | 6.0 | 280.2 | 3.5 |
| 16 | 276.49 | | 6.3 | 279.9 | 3.4 |
| +50 | 276.27 | | 6.4 | 279.8 | 3.5 |
| 17 | 276.04 | | 6.4 | 279.8 | 3.8 |
| +50 | 275.81 | | 6.5 | 279.68 | 3.9 |
| +64.25 M.H.#33 | 275.75 | 285.74 | 6.0 | 279.74 | 4.0 |
| 18 | 275.22 | | 6.0 | 279.7 | 4.1 |
| +50 | 275.12 | | 5.8 | 279.9 | 4.5 |
| 19 | 275.02 | | 5.5 | 280.2 | 5.1 |

| H.I. | Rod | Elev. | cut |
|---|---|---|---|
| 286.84 | 7.1 | 279.7 | 4.1 |
| | 6.9 | 279.9 | 4.5 |
| | 6.3 | 280.3 | 5.1 |

april 26 1905

Childs
Lewis
Sleeve

| Sta. | | Grade | H.I. | Rod | Elev. | cut | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|---|---|---|---|
| +50 | | 274.92 | 285.74 | 5.1 | 280.6 | 5.7 | 286.84 | 6.2 | 280.6 | 5.7 |
| 20 | | 274.69 | | 4.7 | 281.0 | 6.3 | | 5.8 | 281.0 | 6.3 |
| +50 | | 274.47 | | 4.3 | 281.4 | 6.9 | | 5.5 | 281.3 | 6.8 |
| 21 | | 274.24 | | 3.9 | 281.8 | 7.6 | | 5.1 | 281.7 | 7.5 |
| +50 | | 274.02 | | 3.5 | 282.2 | 8.2 | | 4.8 | 282.0 | 8.0 |
| +98.8 | M.H.#32 | 273.79 | | 3.0 | 282.7 | 8.9 | | 4.4 | 282.4 | 8.6 |
| 22 | | 273.79 | | 3.0 | 282.7 | 8.9 | | | | |
| +50 | | 273.56 | | 2.7 | 283.0 | 9.4 | | 3.9 | 282.9 | 9.4 |
| 23 | | 273.33 | | 2.3 | 283.4 | 10.1 | | 3.5 | 283.3 | 10.0 |
| +50 | | 273.11 | | 1.9 | 283.8 | 10.7 | | 3.2 | 283.6 | 10.5 |
| 24 | | 272.88 | | 1.5 | 284.2 | 11.3 | | 2.9 | 283.9 | 11.0 |
| +34 | M.H.#31 | 272.73 | | 1.4 | 284.3 | 11.6 | | 2.6 | 284.2 | 11.5 |

1.45
286.48
287.93 ✓
272.88
15.05
3.92 4.28
11.13

273.11
14.82
4.28
10.54

273.33
14.60
4.59
10.01

273.56
14.37
4.95
9.42
5.88
282.05
4.27
286.32 ✓
274.02
12.30

273.79
12.53

274.92
11.40
5.55
279.39
284.94 ✓
275.49
9.80
4.59
275.37
9.57

275.59
9.35
275.73
9.21

25
13
38

274.23
12.09

274.47
11.85
274.69
11.63

9.40
275.59
284.64 ✓
275.22
9.42

275.12
9.52
.012

9.05
38
9.43

April 28. 1905

Alley line bet. 4th & 5th from Shields Lewis Gunn ave. 175' North Brookes to University.

| Sta. | | Grade H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|
| 0 | 160' So. M.H. #60 | 276.55 | 289.45 | 281.8 | 5.3 |
| +50 | | 276.81 | 7.7 | 281.7 | 4.9 |
| 1 | | 277.06 | 8.8 | 280.6 | 3.5 |
| +50 | | 277.32 | 8.9 | 280.5 | 3.2 |
| +60 | M.H. #60 | 277.37 | 8.5 | 280.9 | 3.5 |
| 2 | | 277.58 | 8.3 | 281.1 | 3.5 |
| +50 | | 277.84 | 8.2 | 281.2 | 3.4 |
| 3 | | 278.09 | 7.5 | 281.9 | 3.8 |
| +50 | | 278.35 | 7.1 | 282.3 | 4.0 |
| 4 | | 278.61 | 5.7 | 283.7 | 5.1 |
| +50 | | 278.87 | 5.8 | 283.6 | 4.7 |
| +84.25 | M.H. #59 | 279.04 | 5.3 | 284.1 | 5.1 |
| 5 | | 279.12 | 4.1 | 285.3 | 6.2 |
| +50 | | 279.39 | 4.0 | 285.4 | 6.0 |
| 6 | | 279.65 | 2.9 | 286.5 | 6.9 |

Penn North line Thurston

April 28 1905

| Sta. | | Grade | H. I. | Rod | Elev. | cut | |
|---|---|---|---|---|---|---|---|
| | +50 | 279.92 | 289.45 | 2.9 | 286.5 | 6.6 | |
| 7 | | 280.19 | | 2.7 | 286.7 | 6.5 | |
| | +50 | 280.45 | | 2.3 | 287.1 | 6.7 | |
| 8 | | 280.72 | | 1.9 | 287.5 | 6.8 | |
| | +15 M.H.# 58 | 280.80 | | 1.98 | 287.47 | 6.7 | V |
| | +50 | 280.98 | 293.95 | 6.0 | 287.9 | 6.9 | |
| 9 | | 281.25 | | 5.4 | 288.5 | 7.3 | |
| | +50 | 281.51 | | 6.1 | 287.8 | 6.3 | |
| 10 | | 281.78 | | 5.8 | 288.1 | 6.3 | |
| | +50 | 282.04 | | 5.5 | 288.4 | 6.4 | |
| 11 | | 282.31 | | 6.4 | 287.5 | 5.2 | |
| | +43.8 M.H.# 57 | 282.54 | | 5.1 | 288.8 | 6.3 | North line Robinson |
| | +50 | 282.58 | | 4.8 | 289.1 | 6.5 | |
| 12 | | 282.86 | | 5.0 | 288.9 | 6.0 | |
| | +50 | 283.14 | | 5.1 | 288.8 | 5.7 | |

April 28. 1905

| Sta. | | Grade | H. I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| 13 | | 283.42 | 293.95 | 4.5 | 289.4 | 6.0 |
| +50 | | 283.71 | | 4.2 | 289.7 | 6.0 |
| 14 | | 283.98 | | 4.7 | 289.2 | 5.2 |
| +50 | | 284.27 | | 4.7 | 289.2 | 4.9 |
| 15 | | 284.55 | | 4.3 | 289.6 | 5.1 |
| +35 | T.T. # 19 | 284.75 | | 5.1 | 288.8 | 4.1 |

April 29, 1905

alley line bet. 4th & 5th from Brookes to Walnut.

| Sta. | | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| 0 | M.H.#61 | 275.50 | 288.97 | 7.4 | 281.6 | 6.1 |
| +50 | | 276.04 | | 6.1 | 282.9 | 6.9 |
| 1 | | 276.57 | | 6.5 | 282.5 | 5.9 |
| +50 | | 277.11 | | 5.9 | 283.1 | 6.0 |
| 2 | | 277.65 | | 5.6 | 283.4 | 5.8 |
| +50 | | 278.19 | | 4.12 | 284.85 | 6.6 |
| 3 | | 278.72 | 294.25 | 9.3 | 284.7 | 6.0 |
| +20 | M.H.#62 | 278.93 | | 9.1 | 285.1 | 6.2 |
| +50 | | 279.26 | | 7.8 | 286.4 | 7.1 |
| 4 | | 279.80 | | 6.0 | 288.2 | 8.4 |
| +50 | | 280.34 | | 5.2 | 289.0 | 8.7 |
| 5 | | 280.87 | | 5.7 | 288.5 | 7.6 |
| +50 | | 281.41 | | 6.0 | 288.2 | 6.8 |
| 6 | | 281.94 | | 6.1 | 288.1 | 6.2 |
| +05 | H.I.#28 | 282.00 | | 6.2 | 288.0 | 6.0 |

April 29. 1905

Childs
Lewis
Gunn

alley line bet. 3rd & 4th from Brookes to Walnut.

| Sta. | | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| 0 | | 276.70 | 292.64 | 11.8 | 280.8 | 4.1 |
| | +50 | 277.53 | | 8.9 | 283.7 | 6.2 |
| 1 | | 278.36 | | 5.2 | 287.4 | 9.0 |
| | +50 | 279.18 | | 3.6 | 289.0 | 9.8 |
| 2 | | 280.01 | | 3.7 | 288.9 | 8.9 |
| | +50 | 280.84 | | 4.2 | 288.4 | 7.6 |
| 3 | | 281.67 | | 4.6 | 288.0 | 6.3 |
| | +20 M.H.#63 | 282.00 | | 4.6 | 288.0 | 6.0 |
| | +50 | 282.21 | | 5.0 | 287.6 | 5.4 |
| 4 | | 282.56 | | 5.1 | 287.5 | 4.9 |
| | +50 | 282.91 | | 5.5 | 287.1 | 4.2 |
| 5 | | 283.26 | | 5.6 | 287.0 | 3.7 |
| | +50 | 283.61 | | 5.6 | 287.0 | 3.4 |
| 6 | | 283.96 | | 6.0 | 286.6 | 2.6 |
| | +05 H.H.#26 | 284.00 | | 6.1 | 286.5 | 2.5 |

May 9. 1905

Childs
Lewis
Gunn

Alley line bet. 2nd & 3rd from Brookes to University ave.

| Sta. | | Grade | H.I. | Rod | Elev. | Cut |
|---|---|---|---|---|---|---|
| 0 | M.H.#65 | 267.00 | 284.19 | 12.9 | 271.3 | 4.3 |
| +50 | | 267.29 | | 11.1 | 273.1 | 5.8 |
| 1 | | 267.57 | | 14.3 | 269.9 | 2.3 |
| +50 | | 267.86 | | [illegible] | | |
| 2 | | 268.15 | | 12.6 | 271.6 | 3.5 |
| +50 | 5 | 268.44 | | 7.8 | 276.4 | 8.0 |
| 3 | | 268.72 | | 5.4 | 278.79 | 10.1 |
| +50 | | 269.01 | | 4.7 | 279.5 | 10.5 |
| +60 | M.H.#66 | 269.07 | | 4.6 | 279.6 | 10.5 |
| 4 | | 269.30 | | 4.6 | 279.6 | 10.3 |
| +50 | | 269.59 | | 5.4 | 278.8 | 9.2 |
| 5 | | 269.87 | | 6.3 | 277.9 | 8.0 |
| +50 | | 270.16 | | 7.3 | 276.9 | 6.7 |
| 6 | | 270.44 | | 7.9 | 276.3 | 5.9 |
| +50 | | 270.73 | | 9.7 | 274.5 | 3.8 |
| 6 +60 | ℄ Penn. | 270.79 | | | | |
| +89.6 | M.H.#67 | 270.95 | | 9.0 | 275.2 | 4.3 |

May 11 1905

Schilds
Lewis
Gunn



| Sta. | | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| 7 | | 271.02 | 284.19 | 8.2 | 276.0 | 5.0 |
| | +50 | 271.31 | | 8.2 | 276.02 | 4.7 |
| 8 | | 271.59 | | 8.36 | 275.83 | 4.2 |
| | +50 | 271.88 | 284.47 | 7.7 | 276.8 | 4.9 |
| 9 | | 272.17 | | 6.9 | 277.6 | 5.4 |
| | +50 | 272.46 | | 6.9 | 277.6 | 5.1 |
| 10 | | 272.74 | | 7.5 | 277.0 | 4.3 |
| | +20 M.M. # 68 | 272.85 | | 7.5 | 277.0 | 4.2 |
| | +50 | 273.03 | | 6.5 | 278.0 | 5.0 |
| 11 | | 273.31 | | 5.1 | 279.4 | 6.1 |
| | +50 | 273.60 | | 3.8 | 280.7 | 7.1 |
| 12 | | 273.89 | | 3.2 | 281.3 | 7.4 |
| | +50 | 274.18 | | 4.2 | 280.3 | 6.1 |
| 13 | | 274.46 | | 5.5 | 279.0 | 4.5 |
| | +20 ℄ Robinson | 274.55 | | | | |
| | +49 M.M. # 69 | 274.74 | | 4.3 | 280.2 | 5.5 |

L.S. May 11 1905

| Sta. | | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| 14 | | 275.04 | 284.97 | 2.6 | 281.9 | 6.9 |
| +50 | | 275.33 | | 3.2 | 281.3 | 6.0 |
| 15 | | 275.61 | | 3.2 | 281.3 | 5.7 |
| +50 | | 275.90 | | 2.8 | 281.7 | 5.8 |
| 16 | | 276.18 | | 2.4 | 282.1 | 5.9 |
| +50 | | 276.47 | | 2.2 | 282.3 | 5.8 |
| 17 | | 276.77 | | 2.6 | 281.9 | 5.1 |
| +40 | F.S. #22 | 277.00 | | 2.2 | 282.1 | 5.1 |

May 11, 1905

Childs
Lewis
Gunn

alley line bet. 2nd & 3rd. from Brooks 160' South

| Sta. | | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| 0 | M.H.#65 | 267.00 | 284.19 | 12.9 | 271.3 | 4.3 |
| +50 | | 270.75 | | 9.8 | 274.4 | 3.7 |
| 1 | | 274.50 | | 4.2 | 280.0 | 5.5 |
| +50 | | 278.25 | | 1.0 | 283.2 | 5.0 |
| +60 | M.H.#64 | 279.00 | | 0.9 | 283.3 | 4.3 |

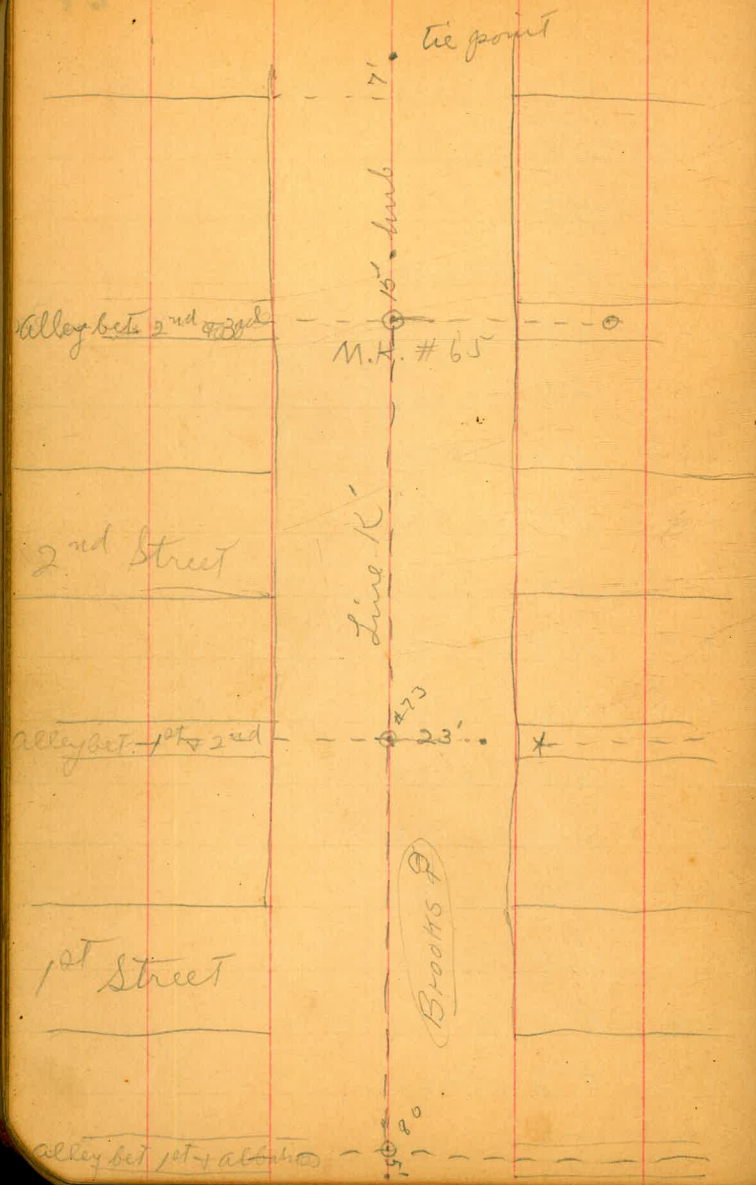
5

May 13, 1905

Childs
Lewis
Gunn

Line K'. Center of Brookes from alley bet. 2nd & 3rd to alley bet. 1st & Albatross

| Sta. | | Grade | H.I. | Rod | Elev. | cut | |
|---|---|---|---|---|---|---|---|
| 0 | M.H. #65 | 267.00 | 281.71 | 10.4 | 271.3 | 4.3 | |
| +50 | | 264.95 | | 12.8 | 268.95 | 4.0 | correct new bench |
| 1 | | 262.91 | 270.54 | 4.0 | 266.8 | 3.9 | |
| +50 | | 260.85 | | 6.0 | 264.8 | 4.0 | |
| 2 | | 258.81 | | 7.0 | 263.8 | 5.0 | |
| +50 | | 256.76 | | 8.5 | 262.3 | 5.5 | |
| 3 | | 254.72 | | 10.2 | 260.6 | 5.9 | |
| +42 | M.H. #73 | 253.00 | | 11.5 | 259.3 | 6.3 | |
| +50 | | 252.81 | | 11.8 | 259.0 | 6.2 | |
| 4 | | 251.65 | 261.49 | 3.8 | 257.7 | 6.1 | |
| +50 | | 250.49 | | 5.6 | 255.9 | 5.4 | |
| 5 | | 249.33 | | 7.0 | 254.5 | 5.2 | |
| +50 | | 248.17 | | 8.3 | 253.2 | 5.0 | |
| 6 | | 247.01 | | 9.5 | 252.0 | 5.0 | |
| +50 | | 245.85 | | 10.4 | 251.1 | 5.3 | |
| +86.8 | M.H. #80 | 245.00 | | 11.1 | 250 | 5.3 | |


tie point
7'
15' hub
Alley bet. 2nd & 3rd
M.H. #65
2nd Street
Line K'
#73
Alley bet. 1st & 2nd
23'
Brooks
1st Street
80
Alley bet 1st & abutment
5'

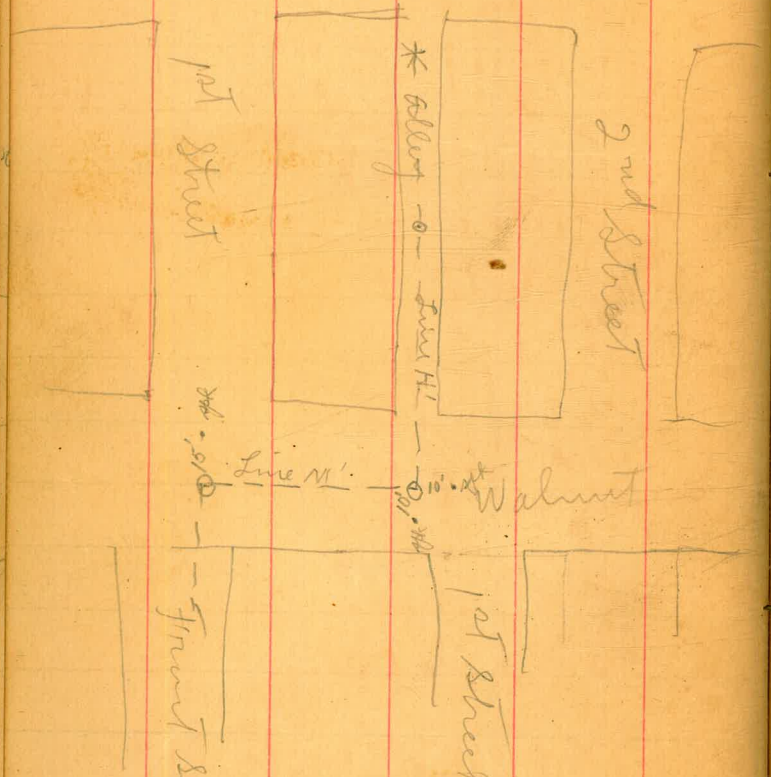
May 16. 1905

Childs
Gunn
Munson

26

Alley line bet 1st & 2nd from Center Walnut To Brookes (Line H')

Brookes Street



May 16 1905

Line A' bet. 1st & 2nd Brookes to Walnut.

| Sta. | | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| 0 | M.H. # 75 | 256.00 | 261.73 | 1.6 | 260.1 | 4.1 |
| +50 | | 256.24 | 267.14 | 6.92 | 260.22 | 4.0 |
| 1 | | 256.49 | | 7.3 | 259.8 | 3.3 |
| +50 | | 256.73 | | 7.1 | 260.0 | 3.3 |
| 2 | | 256.98 | | 6.0 | 261.1 | 4.1 |
| +50 | | 257.22 | | 4.8 | 262.3 | 5.1 |
| 3 | | 257.46 | | 4.9 | 262.2 | 4.7 |
| +40 | M.H. # 74 | 257.65 | | 5.0 | 262.1 | 4.5 |
| +50 | | 257.70 | | 4.9 | 262.2 | 4.5 |
| 4 | | 257.95 | | 5.0 | 262.1 | 4.2 |
| +50 | | 258.19 | | 4.7 | 262.4 | 4.2 |
| 5 | | 258.44 | | 5.0 | 262.1 | 3.7 |
| +50 | | 258.68 | | 4.7 | 262.9 | 4.2 |
| 6 | | 258.93 | | 4.0 | 263.1 | 4.2 |
| +15 | H.J. # 25 | 259.00 | | 3.9 | 263.2 | 4.2 |

May 16 1905

Childs
Gunn
Munson

Line M' on Walnut from alley bet. 1st + 2nd to Center of Front.

| Sta. | | Grade | H.I. | Rod | Elev. | cut | |
|---|---|---|---|---|---|---|---|
| 0 | M.H. # 75 | 256.00 | 261.73 | 1.6 | 260.1 | 4.1 | |
| +50 | | 251.20 | | 5.0 | 256.60 | 5.5 | correct |
| 1 | | 246.41 | | 8.6 | 253.1 | 6.7 | |
| +50 | | 241.62 | | 10.7 | 251.0 | 9.4 | |
| +66.85 | M.H. # 82 | 240.0 | | 11.0 | 250.7 | 10.7 | |
| 0 | | 253.0 | 266.80 | 7.7 | | | |
| +50 | | | | 7.6 | | | |
| Trestle 4 +58.66 | | | | 12.7 | | | |
| 5 | | | | 7.8 | | | |
| +50 | | | | 6.8 | | | |
| 6 | | | | 5.7 | | | |
| 6 +50 | | | | 5.0 | | | |

Cont. from Book 192 - Pg #17

May 18, 1905

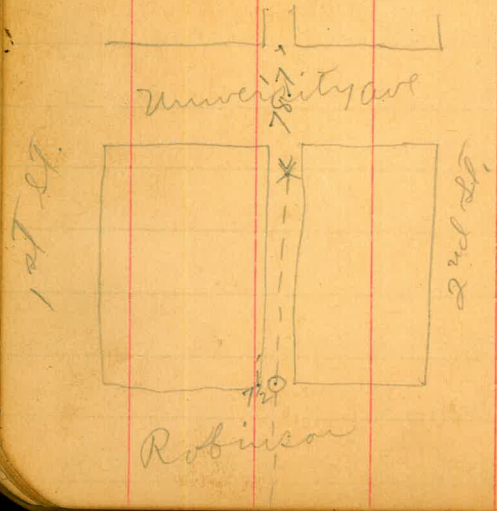
alley line I. bet. 1st & 2nd

Pennsylvania from (Thurston) to University.

| Sta. | | Grade | H.I. | Rod | Elev. | Cut | |
|---|---|---|---|---|---|---|---|
| 6+90 | M.H. #72 | 257.00 | 268.68 | 6.18 | 262.50 | 5.5 | North line Thurston |
| 7 | | 257.15 | | 6.2 | 262.35 | 5.4 | |
| +50 | | 257.90 | | 5.5 | 263.2 | 5.3 | |
| 8 | | 258.66 | | 5.7 | 263.0 | 4.3 | |
| +50 | | 259.41 | | 3.3 | 265.4 | 6.0 | |
| 9 | | 260.17 | 278.07 | 11.94 | 266.13 | 6.0 | |
| +50 | | 260.92 | | 11.0 | 267.1 | 6.2 | |
| 10 | | 261.68 | | 10.3 | 267.8 | 6.1 | |
| +20 | M.H. #71 | 261.98 | | 9.6 | 268.5 | 6.5 | |
| +50 | | 262.43 | | 9.6 | 268.5 | 6.1 | |
| 11 | | 263.19 | | 9.6 | 268.5 | 5.3 | |
| +50 | | 263.94 | | 8.9 | 269.3 | 5.4 | |
| 12 | | 264.70 | | 8.7 | 269.4 | 4.7 | |
| +50 | | 265.45 | | 7.7 | 270.31 | 4.9 | |
| 13 | | 266.20 | | 6.3 | 271.8 | 5.6 | |
| +57.2 | M.H. #70 | 266.98 | | 5.3 | 272.8 | 5.8 | line Robinson |

L.S. May 20 1905

| Sta. | | Grade | H.I. | Rod | Elev. | cut |
|---|---|---|---|---|---|---|
| 14 | | 267.71 | 278.07 | 3.3 | 274.8 | 7.1 |
| +50 | | 268.46 | | 2.8 | 275.3 | 6.8 |
| 15 | | 269.22 | | 2.0 | 276.1 | 6.9 |
| +50 | | 269.97 | | 2.2 | 275.9 | 5.9 |
| 16 | | 270.73 | | 3.5 | 274.6 | 3.9 |
| +50 | | 271.48 | | 2.6 | 275.5 | 4.0 |
| 17 | | 272.24 | | 0.4 | 277.7 | 3.5 |
| +50 | F.S. #23 | 273.00 | | 1.0 | 277.1 | 4.1 |




787
636
151

# Cross-sections of 7th St.

from Park line — Brooks St.

4th & Walnut.

| | | | | |
|---|---|---|---|---|
| BM | 7.11 | 293.59 | | 286.48 |
| | 3.44 | 285.32 | 11.71 | 281.88 |
| BM (Top of S.W. Cor. Veranda Wall of Geo. W. Marston's Residence on 7th Street) | | | 9.15 | 276.17 |

Park line

| | | |
|---|---|---|
| W. | 1.4 | 283.9 |
| | 1.8 | 283.5 |
| | 2.6 | 282.7 |
| C | 3.2 | 282.1 |
| | 3.8 | 281.5 |
| | 4.2 | 281.1 |
| E | 4.8 | 280.5 |

11' N of Park line.

| | | |
|---|---|---|
| E | 5.2 | 280.1 |
| | 4.6 | 280.7 |
| | 3.6 | 281.7 |
| C | 3.0 | 282.3 |
| | 2.3 | 283.0 |

6/8/05 {Hatch / Witmore / Thomas.

285.32



| | | |
|---|---|---|
| | 1.9 | 283.4 |
| W | 1.4 | 283.9 |

23' N of Park line.

| | | |
|---|---|---|
| W | 2.3 | 283.0 |
| | 2.8 | 282.5 |
| | 3.3 | 282.0 |
| C | 3.6 | 281.7 |
| | 3.7 | 281.6 |
| | 4.2 | 281.1 |
| E | 5.1 | 280.2 |

33' N of Park line — Block line of street

| | | |
|---|---|---|
| E | 5.4 | 279.9 |
| | 4.4 | 280.9 |
| | 3.9 | 281.4 |
| C | 3.6 | 281.7 |
| | 3.4 | 281.9 |
| | 2.6 | 282.7 |

7th St

285.32

| | | |
|---|---|---|
| W | 2.3 | 283.0 |

25' N of Street line

| | | |
|---|---|---|
| W | 2.3 | 283.0 |
| | 2.3 | 283.0 |
| | 3.5 | 281.8 |
| C | 3.7 | 281.6 |
| | 4.0 | 281.3 |
| | 4.6 | 280.7 |
| E | 5.6 | 279.7 |

50' N of Street line

| | | |
|---|---|---|
| E | 6.0 | 279.3 |
| | 5.5 | 279.8 |
| | 5.1 | 280.2 |
| C | 4.6 | 280.7 |
| | 4.2 | 281.1 |
| | 2.9 | 282.4 |
| W | 2.4 | 282.9 |

285.32

75' N of Street line

| | | |
|---|---|---|
| W | 2.7 | 282.6 |
| | 3.1 | 282.2 |
| | 3.7 | 281.6 |
| C | 4.1 | 281.2 |
| | 4.7 | 280.6 |
| | 5.6 | 279.7 |
| E | 6.3 | 279.0 |

100' N of Street line

| | | |
|---|---|---|
| E | 6.0 | 279.3 |
| | 5.6 | 279.7 |
| | 4.9 | 280.4 |
| C | 4.4 | 280.9 |
| | 4.2 | 281.1 |
| | 3.3 | 282.0 |
| W | 2.6 | 282.7 |

7th St

285.32

125' N of Street line

| | | |
|---|---|---|
| W | 2.6 | 282.7 |
| | 3.0 | 282.3 |
| | 3.7 | 281.6 |
| C | 4.2 | 281.1 |
| | 4.6 | 280.7 |
| | 5.3 | 280.0 |
| E | 5.9 | 279.4 |

140' N of Street line - S. line Alley

| | | |
|---|---|---|
| E | 6.3 | 279.0 |
| | 5.4 | 279.9 |
| | 4.8 | 280.5 |
| C | 4.3 | 281.0 |
| | 3.8 | 281.5 |
| | 3.4 | 281.9 |
| W | 2.6 | 282.7 |



285.32

155' N of Street line - N. line of Alley

| | | |
|---|---|---|
| W | 3.0 | 282.3 |
| | 3.6 | 281.7 |
| | 4.1 | 281.2 |
| C | 4.5 | 280.8 |
| | 4.5 | 280.8 |
| | 5.4 | 279.9 |
| E | 6.0 | 279.3 |

25' N of Alley

| | | |
|---|---|---|
| E | 6.8 | 278.5 |
| | 6.0 | 279.3 |
| | 5.3 | 280.0 |
| C | 4.7 | 280.6 |
| | 4.1 | 281.2 |
| | 3.9 | 281.4 |
| W | 3.4 | 281.9 |

7th St

66

283.32

50' N of Alley

| | | | |
|---|---|---|---|
| W | | 3.6 | 281.7 |
| | | 4.0 | 281.3 |
| | | 4.7 | 280.6 |
| C | | 5.3 | 280.0 |
| | | 5.9 | 279.4 |
| | | 6.7 | 278.6 |
| E | | 7.5 | 277.8 |
| T.P. | 3.92 | 282.66 6.58 | 278.74 |

75' N of Alley

| | | | |
|---|---|---|---|
| E | | 5.6 | 277.1 |
| | | 4.6 | 278.1 |
| | | 3.3 | 279.4 |
| C | | 2.7 | 280.0 |
| | | 2.2 | 280.5 |
| | | 1.8 | 280.9 |
| W | | 1.5 | 281.2 |

282.66

100' N of Alley

| | | | |
|---|---|---|---|
| W | | 1.9 | 280.8 |
| | | 2.4 | 280.3 |
| | | 3.0 | 279.7 |
| C | | 3.7 | 279.0 |
| | | 4.1 | 278.6 |
| | | 5.1 | 277.6 |
| E | | 6.0 | 276.7 |

125' N of Alley

| | | | |
|---|---|---|---|
| E | | 6.2 | 276.5 |
| | | 5.3 | 277.4 |
| | | 4.7 | 278.0 |
| C | | 4.1 | 278.6 |
| | | 3.5 | 279.2 |
| | | 2.9 | 279.8 |
| W | | 2.3 | 280.4 |

7th St

272.66

150 N of alley

| | | |
|---|---|---|
| W | 2.9 | 279.8 |
| | 3.5 | 279.2 |
| | 4.2 | 278.5 |
| C | 4.8 | 277.9 |
| | 5.5 | 277.2 |
| | 6.5 | 276.2 |
| E | 7.3 | 275.4 |

175' N of alley

| | | |
|---|---|---|
| E | 7.5 | 275.2 |
| | 6.8 | 275.9 |
| | 6.3 | 276.4 |
| C | 5.3 | 277.4 |
| | 4.3 | 278.4 |
| | 3.5 | 279.2 |
| W | 2.1 | 279.6 |

282.66

200' N of alley

| | | |
|---|---|---|
| W | 3.5 | 279.2 |
| | 4.4 | 278.3 |
| | 5.2 | 277.5 |
| C | 6.0 | 276.7 |
| | 6.8 | 275.9 |
| | 7.5 | 275.2 |
| E | 8.2 | 274.5 |

225 N of alley.

| | | |
|---|---|---|
| E | 8.6 | 274.1 |
| | 8.1 | 274.6 |
| | 7.3 | 275.4 |
| C | 6.2 | 276.5 |
| | 5.7 | 277.0 |
| | 4.9 | 277.8 |
| W | 4.0 | 278.7 |

7th St

28266

250 N of alley

| | | |
|---|---|---|
| W | 4.1 | 278.6 |
| | 5.0 | 277.7 |
| | 6.0 | 276.7 |
| C | 6.7 | 276.0 |
| | 7.5 | 275.2 |
| | 8.3 | 274.4 |
| E | 9.0 | 273.7 |

275 N of alley

| | | |
|---|---|---|
| E | 8.6 | 274.1 |
| | 8.1 | 274.6 |
| | 7.7 | 275.0 |
| C | 6.8 | 275.9 |
| | 6.0 | 276.8 |
| | 4.9 | 277.8 |
| W | 4.1 | 278.6 |

28266

300 N of alley

| | | |
|---|---|---|
| W | 4.2 | 278.5 |
| | 5.2 | 277.5 |
| | 6.0 | 276.7 |
| C | 6.7 | 276.0 |
| | 7.4 | 275.3 |
| | 8.2 | 274.5 |
| E | 9.0 | 273.7 |

325 N of alley

| | | |
|---|---|---|
| E | 9.2 | 273.5 |
| | 8.4 | 274.3 |
| | 7.2 | 275.5 |
| C | 6.5 | 276.2 |
| | 5.9 | 276.8 |
| | 4.8 | 277.9 |
| W | 4.3 | 278.4 |

7th St

282.66

350 N of alley

| | | |
|---|---|---|
| W | 3.7 | 279.0 |
| | 4.4 | 278.3 |
| | 5.7 | 277.0 |
| C | 7.1 | 275.6 |
| | 7.8 | 274.9 |
| | 8.4 | 274.3 |
| E | 8.9 | 273.8 |

375' N of alley

| | | |
|---|---|---|
| E | 8.4 | 274.3 |
| | 7.8 | 274.9 |
| | 7.1 | 275.6 |
| C | 6.4 | 276.3 |
| | 5.8 | 276.9 |
| | 5.0 | 277.7 |
| W | 4.3 | 278.4 |

282.66

400 N of alley

| | | |
|---|---|---|
| W | 3.7 | 279.0 |
| | 4.4 | 278.3 |
| | 5.1 | 277.6 |
| C | 5.9 | 276.8 |
| | 6.5 | 276.2 |
| | 7.5 | 275.2 |
| E | 8.6 | 274.1 |

425' N of alley

| | | |
|---|---|---|
| E | 8.5 | 274.2 |
| | 7.8 | 274.9 |
| | 7.0 | 275.7 |
| C | 6.3 | 276.4 |
| | 5.3 | 277.4 |
| | 4.0 | 278.7 |
| W | 3.4 | 279.3 |

7th St

282.66

450' N of alley

| | | | |
|---|---|---|---|
| W | | 3.9 | 278.8 |
| | | 4.8 | 277.9 |
| | | 5.6 | 277.1 |
| C | | 6.2 | 276.5 |
| | | 7.1 | 275.6 |
| | | 7.9 | 274.8 |
| E | | 8.8 | 273.9 |

475' N of alley

| | | | |
|---|---|---|---|
| E | | 9.6 | 273.1 |
| | | 8.8 | 273.9 |
| | | 7.4 | 275.3 |
| C | | 6.9 | 275.8 |
| | | 6.6 | 276.1 |
| | | 6.0 | 276.7 |
| W | | 5.3 | 277.4 |

282.66

500' N of alley.

| | | | |
|---|---|---|---|
| W | | 7.8 | 274.9 |
| | | 8.2 | 274.5 |
| | | 8.9 | 273.8 |
| C | | 9.6 | 273.1 |
| | | 9.9 | 272.8 |
| | | 10.3 | 272.4 |
| E | | 10.8 | 271.9 |
| T.P. | 1.73 | 273.00 | 11.39 | 271.27 |

525' N of alley

| | | | |
|---|---|---|---|
| E | | 3.6 | 269.4 |
| | | 3.6 | 269.4 |
| | | 3.3 | 269.7 |
| C | | 2.8 | 270.2 |
| | | 2.4 | 270.6 |
| | | 2.2 | 270.8 |
| W | | 1.8 | 271.2 |

7th St

27300

550' N of alley

| | |
|---|---|
| 7.0 | 266.0 |
| 6.7 | 266.3 |
| 6.3 | 266.7 |
| 6.8 | 266.2 |
| 6.9 | 266.1 |
| 7.3 | 265.7 |
| 7.4 | 265.6 |

Brow of cutter
slope about 1½-1

Elevation of Sewer on 6th St. done by Stabler,

So Line of University to Center of Walnut.

50 x 6.25 x 1.67

50 x 6.2 x 1.67

50 x 6.15 x 1.67

50 x 6.1 x 1.67

23 x 6.15 x 1.67

M.H.

27 x 6.15 x 1.67

50 x 6.1 x

50 x 6.2 x

50 x 6.25 x

50 x 6.15 x

25.5 x 6.0 x

M.H.

24.5 x 5.9 x 1.67

60 x 5.8 "

60 x 5.55 "

60 x 5.25 "

60 x 5.1 "

60 x 5.0 "

60 x 4.75 "

M.H. 4.6 x

60 x 4.55 x 1.67

60 x 4.3 x "

60 x 4.1 x "

60 x 3.9 x "

60 x 3.75 x "

35 x 3.65 x "

Aus M.H. 3.6 x

16 x 3.6 x 1.67

60 x 3.55 x "

60 x 3.45 x "

Crossection of 7th St (66')

SL University to Brooks

| | | | | | |
|---|---|---|---|---|---|
| | 476 | 288.30 | | 283.54 | BM Bo[illegible] at Sig[illegible] |
| | SL University 445' n of Robinson | | | | |
| WL | | | 5.1 | 283.2 | |
| bb | | | 5.4 | 282.9 | |
| " | | | 5.2 | 283.1 | |
| b | | | 5.1 | 283.2 | |
| " | | | 5.0 | 283.3 | |
| bb | | | 4.8 | 283.5 | |
| EL | | | 4.5 | 283.8 | |
| | 425' n of Robinson | | | | |
| EL | | | 5.0 | 283.3 | |
| bb | | | 5.2 | 283.1 | |
| " | | | 5.2 | 283.1 | |
| b | | | 5.4 | 282.9 | |
| " | | | 5.7 | 282.6 | |
| bb | | | 5.8 | 282.5 | |
| WL | | | 5.2 | 283.1 | |

POSTED

#35

| | | | | |
|---|---|---|---|---|
| | | 288.30 | | 7th St |
| | 400' n of Robinson | | | |
| WL | | | 5.5 | 282.8 |
| bb | | | 5.9 | 282.4 |
| " | | | 5.9 | 282.4 |
| b | | | 5.9 | 282.4 |
| " | | | 5.8 | 282.5 |
| bb | | | 5.5 | 282.8 |
| EL | | | 5.1 | 283.2 |
| | 375' n of Robinson | | | |
| EL | | | 5.4 | 282.9 |
| bb | | | 5.7 | 282.6 |
| " | | | 5.8 | 282.5 |
| b | | | 6.1 | 282.2 |
| " | | | 6.1 | 282.2 |
| bb | | | 6.1 | 282.2 |
| WL | | | 6.1 | 282.2 |

| | | | | |
|---|---|---|---|---|
| | | 288.30 | | |
| | 350' | N of | Robinson | |
| WL | | | 6.3 | 282.0 |
| bl | | | 6.4 | 281.9 |
| " | | | 6.3 | 282.0 |
| b | | | 6.5 | 281.8 |
| " | | | 6.2 | 282.1 |
| bl | | | 6.1 | 282.2 |
| EL | | | 6.1 | 282.2 |
| TP | 3.62 | 285.77 | 6.15 | 282.15 |
| | 325' | N of | Robinson | |
| EL | | | 3.8 | 282.0 |
| bl | | | 3.6 | 282.2 |
| " | | | 3.9 | 281.9 |
| b | | | 3.9 | 281.9 |
| " | | | 4.2 | 281.6 |
| bl | | | 4.3 | 281.5 |
| WL | | | 4.0 | 281.8 |

| | | | | |
|---|---|---|---|---|
| | | 285.77 | | Tick set |
| | 300' | N of | Robinson | |
| WL | | | 4.1 | 281.7 |
| bl | | | 4.3 | 281.5 |
| " | | | 4.6 | 281.2 |
| b | | | 4.2 | 281.6 |
| " | | | 4.3 | 281.5 |
| bl | | | 4.2 | 281.6 |
| EL | | | 4.0 | 281.8 |
| | 275' | N of | Robinson | |
| EL | | | 4.2 | 281.6 |
| bl | | | 4.6 | 281.2 |
| " | | | 4.5 | 281.3 |
| b | | | 4.6 | 281.2 |
| " | | | 4.6 | 281.2 |
| bl | | | 4.6 | 281.2 |
| WL | | | 4.5 | 281.3 |

285.77

64

250' n of Robinson

| | | |
|---|---|---|
| WL | 4.7 | 281.1 |
| bk | 4.4 | 281.4 |
| " | 4.4 | 281.4 |
| b | 4.5 | 281.3 |
| " | 4.5 | 281.3 |
| bk | 4.2 | 281.6 |
| EL | 4.2 | 281.6 |

225' n of Robinson

| | | |
|---|---|---|
| EL | 4.3 | 281.5 |
| bk | 4.6 | 281.2 |
| " | 4.8 | 281.0 |
| b | 4.7 | 281.1 |
| " | 4.7 | 281.1 |
| bk | 4.9 | 280.9 |
| WL | 5.1 | 280.7 |

285.77

200' N of Robinson

| | | |
|---|---|---|
| WL | 5.9 | 279.9 |
| bk | 5.4 | 280.4 |
| " | 5.4 | 280.4 |
| b | 5.3 | 280.5 |
| " | 5.0 | 280.8 |
| bk | 5.0 | 280.8 |
| EL | 5.0 | 280.8 |

175' N of Robinson

| | | |
|---|---|---|
| EL | 5.7 | 280.1 |
| bk | 5.3 | 280.5 |
| " | 5.5 | 280.3 |
| b | 5.4 | 280.4 |
| " | 6.2 | 279.6 |
| bk | 5.8 | 280.0 |
| WL | 5.5 | 280.3 |

| | | | | | |
|---|---|---|---|---|---|
| | | 28577 | | | |
| | 150' | n of | Robinson | | |
| Wh | | | 5.8 | 280.0 | |
| bl | | | 6.2 | 279.6 | |
| y | | | 6.6 | 279.2 | |
| b | | | 6.0 | 279.8 | |
| y | | | 5.6 | 280.2 | |
| bl | | | 5.4 | 280.4 | |
| Et | | | 6.0 | 279.8 | |
| | 125' | n of | Robinson | | |
| Et | | | 6.0 | 279.8 | |
| bl | | | 5.8 | 280.0 | |
| y | | | 6.1 | 279.7 | |
| b | | | 6.5 | 279.3 | |
| y | | | 7.0 | 278.8 | |
| bl | | | 6.4 | 279.4 | |
| Wh | | | 6.3 | 279.5 | |

| | | | | | |
|---|---|---|---|---|---|
| | | 28577 | | Tit Lt | |
| | 100' | n of | Robinson | | |
| Wh | | | 6.[illegible] | 279.5 | |
| bl | | | 6.7 | 279.1 | |
| y | | | 7.5 | 278.3 | |
| b | | | 7.3 | 278.5 | |
| y | | | 6.3 | 279.5 | |
| bl | | | 5.3 | 280.5 | |
| Et | | | 5.6 | 280.2 | |
| TP | 0.39 | 28096 | 5.20 | 280.57 | Rock |
| | 75' | n of | Robinson | | |
| Et | | | 1.0 | 280.0 | |
| bl | | | 1.6 | 279.4 | |
| y | | | 2.0 | 279.0 | |
| b | | | 2.7 | 278.3 | |
| y | | | 2.9 | 278.1 | |
| bl | | | 2.7 | 278.3 | |
| Wh | | | 2.7 | 278.3 | |

28096

50' n of Robinson

| | | |
|---|---|---|
| WL | 2.9 | 278.1 |
| BL | 3.6 | 277.4 |
| ? | 3.4 | 277.6 |
| L | 3.2 | 277.8 |
| ? | 2.8 | 278.2 |
| BL | 2.3 | 278.7 |
| EL | 2.1 | 278.9 |

25' n of Robinson

| | | |
|---|---|---|
| EL | 2.4 | 278.1 |
| BL | 3.2 | 277.8 |
| ? | 3.2 | 277.8 |
| L | 3.8 | 277.2 |
| ? | 3.9 | 277.1 |
| BL | 3.5 | 277.5 |
| WL | 3.2 | 277.7 |

28096

n line of Robinson (60') Graded

| | | |
|---|---|---|
| WL | 3.8 | 277.2 |
| BL | 4.2 | 276.8 |
| ? | 4.6 | 276.4 |
| L | 4.3 | 276.7 |
| ? | 4.0 | 277.0 |
| BL | 4.2 | 276.8 |
| EL | 4.0 | 277.0 |

S of Robinson

| | | |
|---|---|---|
| EL | 5.4 | 275.6 |
| BL | 5.5 | 275.5 |
| ? | 5.2 | 275.7 |
| L | 5.2 | 275.8 |
| ? | 5.1 | 275.9 |
| BL | 4.7 | 276.3 |
| WL | 4.4 | 276.6 |

28096

25' Sat Robinson

| | | |
|---|---|---|
| WR | 2.8 | 278.2 |
| bb | 2.3 | 278.7 |
| 4 | 3.0 | 278.0 |
| 6 | 3.0 | 278.0 |
| 4 | 3.6 | 277.4 |
| bb | 2.7 | 278.3 |
| EL | 3.5 | 277.5 |

50' Sat Robinson

| | | |
|---|---|---|
| EL | 3.8 | 277.2 |
| bb | 6.6 | 274.4 |
| 4 | 7.4 | 273.6 |
| 6 | 11.1 | 269.9 |
| 4 | 6.2 | 274.8 |
| bb | 4.0 | 277.0 |
| WR | 4.1 | 276.9 |

28096

75' Sat Robinson

| | | |
|---|---|---|
| WR | 5.2 | 275.8 |
| bb | 5.9 | 275.1 |
| " | 6.7 | 274.3 |
| 6 | 8.0 | 273.0 |
| 4 | 11.3 | 269.7 |
| 6 | 12.0 | 269.0 |
| EL | 9.7 | 271.3 |

100' Sat Robinson

| | | |
|---|---|---|
| EL | 13.6 | 267.4 |
| 6' | 16.5 | 264.5 |
| bb | 13.6 | 267.4 |
| 4 | 9.3 | 271.7 |
| 6 | 6.3 | 274.7 |
| 4 | 4.7 | 276.3 |
| bb | 4.5 | 276.5 |
| WR | 4.7 | 276.3 |

280.96

| | | | | |
|---|---|---|---|---|
| | 125' | Sof | Robinson | |
| WL | | | 5,7 | 275.3 |
| bk | | | 5,9 | 275.1 |
| y | | | 6.1 | 274.9 |
| b | | | 7,5 | 273.5 |
| y | | | 10.7 | 270.3 |
| TP | 6,4 | 277.44 | 9,68 | 271.30 |
| bk | | | 9,5 | 267.9 |
| EL | | | 12,7 | 264.7 |
| | 135' | Sof | Robinson | |
| EL | | | 13,2 | 264.2 |
| bk | | | 10,7 | 266.7 |
| y | | | 9,0 | 268.4 |
| b | | | 5,7 | 272.0 |
| y | | | 3,7 | 273.7 |
| bk | | | 2,7 | 274.7 |
| WL | | | 1,7 | 275.7 |

277.44

| | | | | |
|---|---|---|---|---|
| | 150' | Sof | Robinson | |
| WL | | | 2,0 | 275.4 |
| bk | | | 2,6 | 274.8 |
| y | | | 3,3 | 274.1 |
| b | | | 4,3 | 273.1 |
| y | | | 5,8 | 271.6 |
| bk | | | 6,8 | 270.6 |
| EL | | | 10,0 | 267.4 |
| | 175' | Sof | Robinson | |
| EL | | | 6,3 | 271.1 |
| bk | | | 2,7 | 273.7 |
| y | | | 2,5 | 274.9 |
| b | | | 2,3 | 275.1 |
| y | | | 2,9 | 274.5 |
| bk | | | 2,6 | 274.8 |
| WL | | | 1.8 | 275.6 |

POSTED

27744

200' S of Robinson

| | | |
|---|---|---|
| WL | 1.9 | 275.5 |
| bk | 2.3 | 275.1 |
| ч | 2.4 | 275.0 |
| b | 3.1 | 274.3 |
| ч | 3.5 | 273.9 |
| bk | 3.6 | 273.8 |
| EL | 4.2 | 273.2 |

275' S of Robinson

| | | |
|---|---|---|
| EL | 6.4 | 271.0 |
| bk | 5.4 | 272.0 |
| ч | 4.0 | 273.4 |
| b | 3.2 | 274.2 |
| ч | 2.5 | 274.9 |
| bk | 2.0 | 275.4 |
| WL | 1.3 | 276.1 |

27744 7th st

250' S of Robinson

| | | |
|---|---|---|
| WL | 0.8 | 276.6 |
| bk | 1.4 | 276.0 |
| ч | 1.7 | 275.7 |
| b | 2.5 | 274.9 |
| ч | 3.8 | 273.6 |
| bk | 5.3 | 272.1 |
| EL | 6.8 | 270.5 |

275' S of Robinson

| | | |
|---|---|---|
| EL | 3.7 | 273.7 |
| bk | 3.5 | 273.9 |
| ч | 3.4 | 274.0 |
| b | 3.2 | 274.2 |
| ч | 2.8 | 274.6 |
| bk | 2.6 | 274.8 |
| WL | 2.2 | 275.2 |

27744

30.0' S of Robinson

| | | | |
|---|---|---|---|
| W2 | | 0,6 | 276.8 |
| bl | | 2,2 | 275.2 |
| 4 | | 2,8 | 274.6 |
| b | | 2,2 | 275.2 |
| 4 | | 2,1 | 275.3 |
| bl | | 2,6 | 274.8 |
| E2 | | 2,5 | 274.9 |
| TP | 7,20 | 2,88 | 274.52 |

28176

325' S of Robinson

| | | | |
|---|---|---|---|
| E2 | | 6,2 | 275.6 |
| bl | | 6,2 | 275.7 |
| 4 | | 5,8 | 276.0 |
| b | | 5,5 | 276.3 |
| 4 | | 5,8 | 276.0 |
| bl | | 5,9 | 275.9 |
| W2 | | 5,9 | 275.9 |

28176

350' S of Robinson

| | | | |
|---|---|---|---|
| W2 | | 4,5 | 287.3 |
| bl | | 4,5 | 287.3 |
| 4 | | 4,2 | 287.6 |
| b | | 4,9 | 276.9 |
| 4 | | 5,5 | 276,3 |
| bl | | 5.0 | 276,8 |
| E2 | | 4.6 | 277.2 |

375' S of Robinson

| | | | |
|---|---|---|---|
| E2 | | 5,5 | 276.3 |
| bl | | 5,7 | 276.1 |
| 4 | | 5,7 | 276.1 |
| b | | 5,0 | 276.8 |
| 4 | | 4,5 | 277.3 |
| bl | | 4,5 | 277.3 |
| W2 | | 4,2 | 277.6 |

281.76

400' S of Robinson

| | | |
|---|---|---|
| WL | 4.0 | 277.8 |
| bb | 4.3 | 277.5 |
| ' | 4.5 | 277.3 |
| b | 4.7 | 277.1 |
| ' | 4.7 | 277.1 |
| bb | 5.7 | 276.1 |
| EL | 6.1 | 275.7 |

425' S of Robinson

| | | |
|---|---|---|
| EL | 6.0 | 275.8 |
| bb | 5.7 | 276.1 |
| ' | 5.0 | 276.8 |
| b | 4.8 | 277.0 |
| ' | 4.8 | 277.0 |
| bb | 4.8 | 277.0 |
| WL | 4.4 | 277.4 |

281.76

450' S of Robinson

| | | |
|---|---|---|
| WL | 3.9 | 277.9 |
| bb | 4.5 | 277.3 |
| ' | 4.7 | 277.1 |
| b | 5.0 | 276.8 |
| ' | 5.3 | 276.5 |
| bb | 5.9 | 275.9 |
| EL | 6.0 | 275.8 |

475' S of Robinson

| | | |
|---|---|---|
| EL | 6.2 | 275.6 |
| bb | 6.2 | 275.6 |
| ' | 5.8 | 276.0 |
| b | 5.4 | 276.4 |
| ' | 4.7 | 277.1 |
| bb | 4.3 | 277.5 |
| WL | 3.8 | 278.0 |

28176

| | | | | |
|---|---|---|---|---|
| | 550' | S of | Robinson | |
| WL | | | 3.3 | 278.5 |
| bb | | | 4.0 | 277.8 |
| ' | | | 4.8 | 277.0 |
| b | | | 5.0 | 276.8 |
| ' | | | 5.4 | 276.4 |
| bb | | | 6.0 | 275.8 |
| EL | | | 6.1 | 275.7 |
| TP | 8.70 | 284.65 | 5.81 | 278.84 |
| | 575' | S of | Robinson | |
| EL | | | 9.1 | 275.5 |
| bb | | | 8.9 | 275.7 |
| ' | | | 8.6 | 276.0 |
| b | | | 7.8 | 276.8 |
| ' | | | 7.5 | 277.1 |
| bb | | | 6.6 | 278.0 |
| WL | | | 5.8 | 278.8 |

28176

| | | | | |
|---|---|---|---|---|
| | 500' | S of | Robinson | |
| WL | | | 3.8 | 278.0 |
| bb | | | 3.9 | 277.9 |
| ' | | | 4.6 | 277.2 |
| b | | | 4.8 | 277.0 |
| ' | | | 5.5 | 276.3 |
| bb | | | 5.8 | 276.0 |
| EL | | | 5.8 | 276.0 |
| | 525' | S of | Robinson | |
| EL | | | 6.0 | 275.8 |
| bb | | | 6.1 | 275.7 |
| ' | | | 5.5 | 276.3 |
| b | | | 4.9 | 276.9 |
| ' | | | 4.8 | 277.0 |
| bb | | | 4.1 | 277.7 |
| WL | | | 3.5 | 278.3 |

284.65-

600' S = N Line of Pennsylvania (60

| | | |
|---|---|---|
| WL | 5.1 | 279.5 |
| bb | 6.1 | 278.5 |
| 4 | 7.0 | 277.6 |
| b | 7.2 | 277.4 |
| 4 | 7.7 | 276.9 |
| bb | 8.0 | 276.6 |
| EL | 8.7 | 275.9 |

N bb of Pennsylvania

| | | |
|---|---|---|
| EL | 8.8 | 275.8 |
| bb | 8.1 | 276.5 |
| 4 | 7.8 | 276.8 |
| b | 7.3 | 277.3 |
| 4 | 6.7 | 277.9 |
| bb | 6.3 | 278.3 |
| WL | 5.3 | 279.3 |

284.65-

N 1/4 of Pen are

| | | |
|---|---|---|
| WL | 5.2 | 279.4 |
| bb | 5.8 | 278.8 |
| 4 | 6.5 | 278.1 |
| b | 7.0 | 277.6 |
| 4 | 7.4 | 277.2 |
| bb | 7.8 | 276.8 |
| EL | 8.4 | 276.2 |

Center of Pen are

| | | |
|---|---|---|
| EL | 8.1 | 276.5 |
| bb | 7.5 | 277.1 |
| 4 | 6.9 | 277.7 |
| b | 6.3 | 278.3 |
| 4 | 5.8 | 278.8 |
| bb | 5.2 | 279.4 |
| WL | 4.8 | 279.8 |

284.65

S 1/4 of Pen ave

| | | | |
|---|---|---|---|
| Wt | | 5.0 | 279.6 |
| bl | | 5.5 | 279.1 |
| " | | 6.0 | 278.6 |
| b | | 6.7 | 277.9 |
| " | | 7.2 | 277.4 |
| bl | | 7.9 | 276.7 |
| Et | | 8.3 | 276.3 |

S bb of Pen ave

| | | | |
|---|---|---|---|
| Et | | 8.4 | 276.2 |
| bl | | 8.0 | 276.6 |
| " | | 7.4 | 277.2 |
| b | | 7.2 | 277.4 |
| " | | 6.7 | 277.9 |
| bl | | 6.1 | 278.5 |
| Wt | | 4.6 | 280.0 |

284.65 7th st

S side of Pensilvania

| | | | |
|---|---|---|---|
| Wt | | 5.3 | 279.3 |
| bl | | 6.0 | 278.6 |
| " | | 6.4 | 278.2 |
| b | | 7.1 | 277.5 |
| " | | 7.4 | 277.2 |
| bl | | 7.7 | 276.9 |
| Et | | 8.3 | 276.3 |

25' S of Pen ave

| | | | |
|---|---|---|---|
| Et | | 8.0 | 276.6 |
| bl | | 7.8 | 276.8 |
| " | | 7.5 | 277.1 |
| b | | 6.7 | 277.9 |
| " | | 6.5 | 278.1 |
| bl | | 5.9 | 278.7 |
| Wt | | 4.9 | 279.7 |

| | | | | |
|---|---|---|---|---|
| | | 284.65 | | |
| | 50' | S of | Pen | ave |
| WL | | | 4,8 | 279.8 |
| bb | | | 5,5 | 279.1 |
| " | | | 6,0 | 278,3 |
| b | | | 6,4 | 278,2 |
| " | | | 7,2 | 277,4 |
| bb | | | 7,7 | 276,9 |
| EL | | | 7,8 | 276,8 |
| | 75' | S of | Pen | ave |
| EL | | | 7.7 | 277.9 |
| bb | | | 7,5 | 277.1 |
| " | | | 7.1 | 277..5 |
| b | | | 6,4 | 278,2 |
| " | | | 6,2 | 278,4 |
| bb | | | 5,2 | 279,4 |
| WL | | | 4,4 | 280.2 |

| | | | | |
|---|---|---|---|---|
| | | 284.65 | | 7th 20 |
| | 100' | S of | Pen | ave |
| WL | | | 4,0 | 280,6 |
| bb | | | 5,0 | 279.6 |
| " | | | 5.6 | 279,0 |
| b | | | 5,7 | 278,9 |
| " | | | 6,4 | 278,2 |
| bb | | | 7,2 | 277.4 |
| EL | | | 7.6 | 277.0 |
| | 125' | S of | Pen | ave |
| EL | | | 7.6 | 277.0 |
| bb | | | 7,3 | 277,3 |
| " | | | 6,8 | 277.8 |
| b | | | 6.1 | 278,5 |
| ~~bb~~ | | | 5,6 | 279,0 |
| bb | | | 5,2 | 279,4 |
| WL | | | 3.7 | 280,9 |
| TP | 1.93 | 281.95 | 4,63 | 280.02 |

POSTED

| | | 281.95 | | |
|---|---|---|---|---|
| | 150' | S of | Per | am |
| Wh | | | 1.4 | 280.6 |
| bl | | | 2,3 | 279.9 |
| y | | | 2,6 | 279.4 |
| b | | | 2,9 | 279,1 |
| y | | | 3,6 | 278,4 |
| bl | | | 4.4 | 277,6 |
| Eh | | | 4,8 | 277,2 |
| | 175' | S of | Per | am |
| Eh | | | 4,8 | 277,2 |
| bl | | | 4,4 | 277.6 |
| y | | | 3,8 | 278.2 |
| b | | | 3,3 | 278 7 |
| y | | | 3,0 | 279,0 |
| bl | | | 2,7 | 279.5 |
| Wh | | | 2,1 | 279.9 |

| | | 281.95 | | Zeh 2t |
|---|---|---|---|---|
| | 200' | S of | Per | am |
| Wh | | | 2.9 | 279.1 |
| bl | | | 3,5 | 278.5 |
| y | | | 3,4 | 278.6 |
| b | | | 3,7 | 278,3 |
| y | | | 4.1 | 277.9 |
| bl | | | 4.5 | 277.5 |
| Eh | | | 4.6 | 277.4 |
| | 225' | S of | Per | am |
| Eh | | | 4,8 | 277,2 |
| bl | | | 4,8 | 277,2 |
| y | | | 4,5 | 277.5 |
| b | | | 4,3 | 277.7 |
| y | | | 4,5 | 277.5 |
| bl | | | 4.5 | 277.5 |
| Wh | | | 4,0 | 278,0 |

281.95-

| | 250' | Sch | Pen | am |
|---|---|---|---|---|
| WL | | | 4,7 | 277,3 |
| bl | | | 5,2 | 276.8 |
| y | | | 5,2 | 276.8 |
| b | | | 5,4 | 276,6 |
| y | | | 5,7 | 276,3 |
| bl | | | 5,8 | 276,2 |
| E2 | | | 5,7 | 276,3 |
| | 275' | Sch | Pen | |
| E2 | | | 6,3 | 275.7 |
| bl | | | 6,1 | 275,9 |
| y | | | 6,0 | 276.0 |
| b | | | 5,8 | 276,2 |
| y | | | 5,7 | 276,3 |
| bl | | | 5,5 | 276,5 |
| WL | | | 5,1 | 276.9 |

281.95-

| | 300' | Sch | Pen | am |
|---|---|---|---|---|
| WL | | | 5,4 | 276.6 |
| bl | | | 6,0 | 276.0 |
| y | | | 5,8 | 276.2 |
| b | | | 6,0 | 276.0 |
| y | | | 6,1 | 275,9 |
| bl | | | 6,2 | 275,8 |
| E2 | | | 6,4 | 275,6 |
| | 325' | Sch | Pen | am |
| E2 | | | 6,7 | 275,3 |
| bl | | | 6,4 | 275,6 |
| y | | | 6,7 | 275,3 |
| b | | | 6,6 | 275,4 |
| y | | | 6,4 | 275,6 |
| bl | | | 6,1 | 275,9 |
| WL | | | 5,8 | 276,2 |

| | | | | |
|---|---|---|---|---|
| | | 281.95 | | |
| | 350' | S of | Per | am |
| WL | | | 6,6 | 275,4 |
| bb | | | 7,0 | 275,0 |
| " | | | 7,0 | 275,0 |
| b | | | 7,0 | 275,0 |
| " | | | 7,2 | 274,8 |
| bb | | | 7,4 | 274.6 |
| EL | | | 7.6 | 274.4 |
| | 375' | S of | Per | am |
| EL | | | 9,5 | 272,5 |
| bb | | | 8,7 | 273,3 |
| " | | | 8,2 | 273,8 |
| b | | | 7,8 | 274,2 |
| " | | | 7,7 | 274.3 |
| bb | | | 7,5 | 274,5 |
| WL | | | 7,0 | 275,0 |
| TP | 1.18 | 274.68 | 8,45 | 273,50 |

| | | | | |
|---|---|---|---|---|
| | | 274.68 | | 7th st |
| | 400' | S of | Per | am |
| WL | | | 0.5 | 274.2 |
| bb | | | 1.1 | 273,6 |
| " | | | 1,5 | 273,2 |
| b | | | 1,5 | 273.2 |
| " | | | 2,0 | 272.7 |
| bb | | | 2,4 | 272,3 |
| EL | | | 2.9 | 271.8 |
| | 425' | S of | Per | am |
| EL | | | 4.0 | 270,7 |
| bb | | | 3,7 | 271,0 |
| " | | | 3,5 | 271.2 |
| b | | | 2,8 | 271.9 |
| " | | | 2,4 | 272,3 |
| bb | | | 2,0 | 272,7 |
| WL | | | 1,5 | 273,2 |

| | | | | |
|---|---|---|---|---|
| | | 274.68 | | |
| | 450' | S of | Pen | am |
| WL | | | 2,7 | |
| bl | | | 2,7 | |
| y | | | 3,4 | |
| b | | | 3,8 | |
| y | | | 4,0 | |
| bl | | | 4,8 | |
| EL | | | 5,6 | |
| | 475' | S of | Pen | am |
| EL | | | 6,9 | |
| bl | | | 6,6 | |
| y | | | 6,2 | |
| b | | | 5,2 | |
| y | | | 5,0 | |
| bl | | | 4,7 | |
| WL | | | 4,6 | |

| | | | | |
|---|---|---|---|---|
| | | 274.68 | | 7th st |
| | 500' | S of | Pen | am |
| WL | | | 11,0 | |
| bl | | | 9,4 | |
| y | | | 10.6 | |
| b | | | 11.6 | |
| y | | | 10,7 | |
| bl | | | 11,2 | |
| EL | | | 11.8 | |
| TP | 0.33 | 262.69 | 12.32 | 262.36 |
| | 510' | S of | Pen | am |
| EL | | | 5,5 | |
| bl | | | 4,2 | |
| y | | | 2,6 | |
| b | | | 1,0 | |
| y | | | 0.6 | |
| bl | | | 1.0 | |
| WL | | | 4,8 | |

| | | | | |
|---|---|---|---|---|
| | | 262.69 | | |
| | 525' | S of | Pen | ave |
| WL | | | 10,0 | |
| bl | | | 9.0 | |
| " | | | 8.5 | |
| b | | | 7.6 | |
| " | | | 8,0 | |
| bl | | | 10,0 | |
| EL | | | 9.3 | |
| TP | 0.47 | 250.71 | 12.45 | 250.24 |
| | 550 | S of | Pen | ave |
| EL | | | 8,3 | |
| bl | | | 7,7 | |
| " | | | 8,0 | |
| b | | | 7,6 | |
| " | | | 8,8 | |
| bl | | | 9,0 | |
| WL | | | 10,8 | |
| TP | 2,37 | 241.78 | 11,3 | 239.41 |

| | | | | | |
|---|---|---|---|---|---|
| | | 241.78 | | 7th st | |
| | 575' | S of | Pen | ave | |
| WL | | | 12.4 | | |
| bl | | | 11.2 | | |
| " | | | 10,0 | | |
| b | | | 10,0 | | |
| " | | | 10,0 | | |
| bl | | | 9,6 | | |
| EL | | | 10.6 | | |
| TP | 0,87 | 231.28 | 11,37 | 230.41 | |
| | 600' | S = N. Lind | Brooks | (60') | |
| | | | 9,0 | 222.3 | |
| | | | 9,0 | | |
| | | | 8,4 | | |
| | | | 8,0 | 223.3 | |
| | | | 8,5 | | |
| | | | 8.0 | | |
| | | | 7,0 | 224.2 | |
| TP | 8.49 | 232.81 | 6.96 | 224.32 | N W Hab Brooks |

POSTED

232.81

N Cb of Brooks

| | |
|---|---|
| EL | 16.2 |
| bl | 16.0 |
| " | 14.0 |
| b | 13.8 |
| " | 12.5 |
| bl | 12.2 |
| WL | 10.6 |

N 1/4 of Brooks

| | |
|---|---|
| WL | 11.8 |
| bl | 12.0 |
| " | 11.6 |
| b | 11.8 |
| " | 12.0 |
| bl | 13.5 |
| EL | 14.0 |

232.81 7th st

Center of Brooks

| | |
|---|---|
| EL | 12.7 |
| bl | 11.5 |
| " | 9.7 |
| b | 8.5 |
| " | 8.2 |
| bl | 9.0 |
| WL | 9.6 |

S 1/4 of Brooks

| | |
|---|---|
| WL | 5.0 |
| bl | 4.4 |
| " | 3.8 |
| b | 4.0 |
| " | 5.3 |
| bl | 7.4 |
| EL | 9.4 |

232.81

S bk of Brooks

| | | | | |
|---|---|---|---|---|
| E2 | | | 5.5 | |
| bk | | | 4.1 | |
| 4 | | | 3.9 | |
| 6 | | | 3.0 | |
| 4 | | | 2.0 | |
| bk | | | 1.4 | |
| W2 | | | 1.3 | |
| TP | 12.26 | 244.11 | 1.96 | 231.85 |

S Line of Brooks

| | | | | |
|---|---|---|---|---|
| W2 | | | 8.7 | 235.4 |
| bk | | | 9.5 | |
| 4 | | | 10.4 | |
| 6 | | | 10.0 | |
| 4 | | | 10.2 | |
| bk | | | 10.3 | |
| E2 | | | 11.4 | 234.7 |

219.59

15' S of Brooks

| | | | | |
|---|---|---|---|---|
| E2 | | | 10.2 | |
| bk | | | 8.5 | |
| 4 | | | 7.5 | |
| 6 | | | 6.9 | |
| 4 | | | 6.0 | |
| bk | | | 5.2 | |
| W2 | | | 5.4 | |

25' S of Brooks

| | | | | |
|---|---|---|---|---|
| W2 | | | 0.8 | |
| bk | | | 1.3 | |
| 4 | | | 1.4 | |
| 6 | | | 1.2 | |
| 4 | | | 0.8 | |
| bk | | | 0.2 | |
| E2 | | | 3.0 | |
| TP | 12.70 | 256.08 | 0.73 | 243.38 |

| | | | | |
|---|---|---|---|---|
| | | 25608 | | |
| | 50' | S of | Brooks | |
| EL | | | 3.0 | |
| bk | | | 2.7 | |
| y | | | 2.5 | |
| b | | | 2.7 | |
| y | | | 3.0 | |
| bk | | | 3.0 | |
| WL | | | 2.2 | |
| TP. | 12.14 | 26640 | 1.82 | 25426 |
| TP | 7.95 | 27339 | 0.96 | 26544 |
| | 75' | S of | Brooks | |
| WL | | | 8.0 | |
| bk | | | 8.0 | |
| y | | | 7.4 | |
| b | | | 7.2 | |
| y | | | 7.6 | |
| bk | | | 8.2 | |
| EL | | | 8.27 | |

| | | | | |
|---|---|---|---|---|
| T.T. | 7th N of Penna | | | 274.77 |
| T.T. | Penna E of 6th St. | | | 280.00 |
| B.M. | 6th + Penna. N.W. Cor. B Plug. | | | 286.86 |
| + | - | H.I. | Elev | |
| 2.40 | | 289.26 | 286.86 | |
| | 10.30 | | 278.96 | |
| 2.93 | | 281.89 | | |
| | 6.81 | | 275.08 | |
| | 6.65 | | 275.24 | |
| | 3.76 | | 290.12 | 286.86 |
| | | 5.21 | | 284.91 |
| | | 6.46 | | 283.66 |
| | | 7.53 | | 282.59 |
| T.P. | 3.53 | 7.76 | 285.89 | 282.36 |
| | | 4.64 | | 281.25 |

Elev Gutter 225' S of Penna.

T.T. N of Penna on 7th

Alley 200' S of Penna. P.L.

225' S " " " "

250' " " " " "

50' E of alley line opp. 200' S of Penna.

B.M. Maryland & Monroe
SE. cor. Hd Spk pole.
G 344.96.

BM curb SE Cor. Maryland & Monroe.

| + | − |
|---|---|
| 1.88 | |
| | 3.06 |
| | 11.1 |

alley bet. New Jersey & Maryland.



Monroe.

Elev & alley 175 S. of P.L. Monroe.

Elev grd. 25' W of N.J. and 175' S of Monroe.

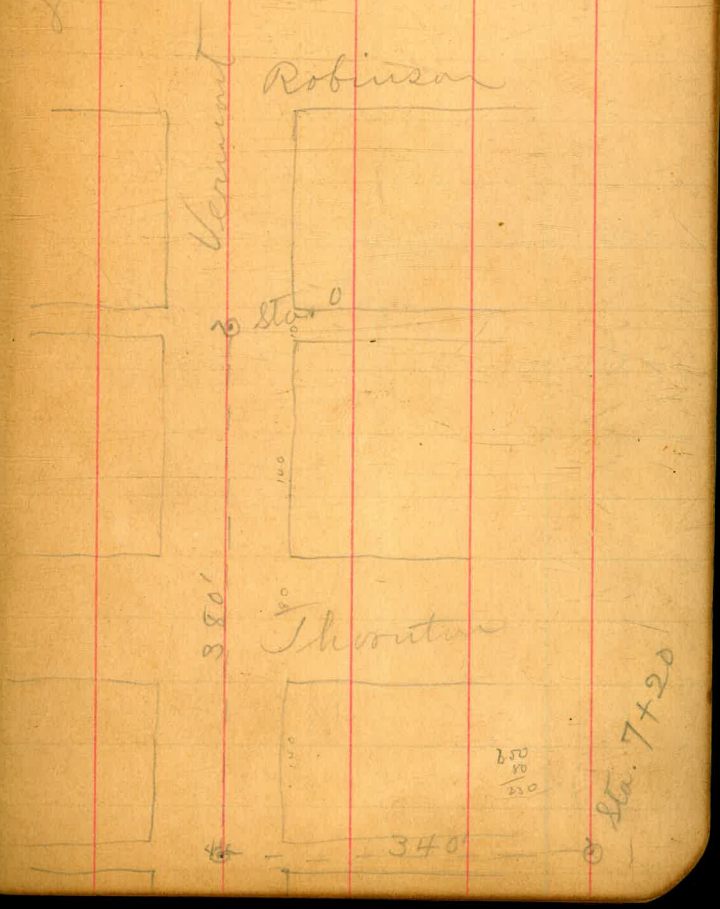
April 27 1905

Childs
Lewis
Shaw

Preliminary Sewer line South of alley between Robinson & Thornton 300' East of east line of Vermont from center of Thornton to center of Cypress and east & west of Vermont Street.

| Sta. | | H.I. | Rod | Elev. |
|---|---|---|---|---|
| 0 | Center of alley | 288.21 | 4.6 | 283.6 |
| | +50 | | 4.3 | 283.9 |
| 1 | | | 4.3 | 283.9 |
| | +50 | | 4.5 | 283.7 |
| 2 | | | 5.7 | 282.5 |
| | +50 | | 6.9 | 281.3 |
| 3 | | | 5.8 | 282.4 |
| | +50 | | 5.2 | 283.0 |
| | +80 Center alley | | 5.3 | 282.9 |
| 4 | | | 5.4 | 282.8 |
| | +50 | | 4.6 | 283.6 |
| 5 | | | 4.0 | 284.2 |

Note - These Levels are 1 foot low.



April 27 1905

| Sta | H.I. | Rod. | Elev. |
|---|---|---|---|
| +50 | 288.21 | 3.5 | 284.7 |
| 6 | | 2.9 | 285.3 |
| +50 | | 2.5 | 285.7 |
| 7 | | 2.0 | 286.2 |
| +20 | | 1.5 | 286.7 |
| +50 | 292.84 | 4.6 | 288.2 |
| 8 | | 4.9 | 287.9 |
| +50 | | 6.1 | 286.7 |

5th Street

| | | | |
|---|---|---|---|
| | University ave | 290.32 | N.E. cor. sp. in New Phone pole |
| St | Robinson | 288.37 | N.W. " " Old " " |
| + | Evans place | 285.65 | N.E. " " Elec. pole |
| 6 | Thornton | 282.44 | S.E. " " " " |
| + | Anderson | 281.31 | N.E. " " " Home p. pole |
| 7 | Brooks | 279.39 | N E " " " " " |
| + | Walnut | 286.48 | N.W. N.W. cor top of cement post |
| + | | | |
| 8 | | | |
| + | | | |

3rd St.

| | | | |
|---|---|---|---|
| | Brookes | 281.05 | S.E. cor. nozzle of hyd. |

8.53
10.65
9.18
.82

281.05
0.66
281.71

482
5.12
9.94
9.05
.89

5.78
279.39
285.17
276.70
8.47

3
035
.2
070

~~28~~

276.02
3.67
279.69
270.95
8.74

189.5
282.2
285.5

5th

275.75
07
274.92

275.59
38
273.21

286.5

188.9

1.95
26
284.5
280.4
4.1

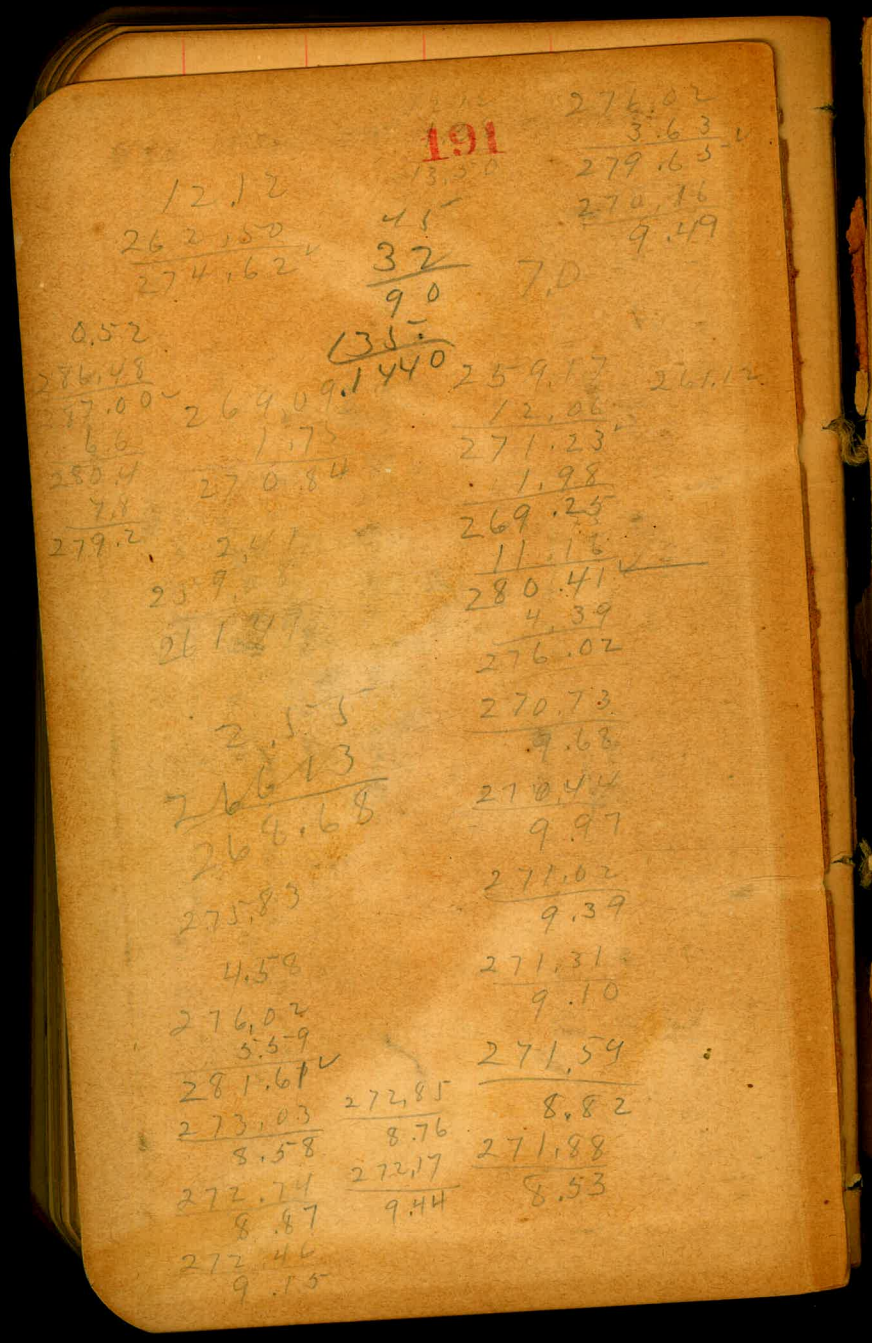
2/3.3
1.65

8.6
9.65
9.25
10
925
75

283.85
279.2
4.6

276.02
5.60
281.62
273.31
8.31

8.53 9.05




# 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. | | |

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