84

1869

TRANSIT.

F.B.84

84

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

MICROFILMED
DEC 7 1964

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

84

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Book No. 84.

name. date.

see book H5 also

Found old 1x2" plug with tack at San Antonia ave and Gila St probably center, measured South 0° 45' E mag) 350 found similar plug with scarf stake along side marked × S.A. Ave Colorado St on East side

Thence 375 to similar plug which appears to be the intersection of the middle lines of San antonia ave and Custom House ave, set witness along side 1½ x ½ x 16" pine stake

thence 385 to similar plug center of San antonia ave First

From this point took following bearings
Flag staff top of old Light house S10° 15' E mag
" " " of coronado hotel S79° 3' E
Flag staff new Quantine Station N 72° 30' E

thence 350' to similar plug at San Antonia & Second St

350 to similar plug on 3rd & San Antonia ave.

From center of First & San antonia ave ran east 448' 2. 4" North of 3x3" white stake marked 4 of 54 or North, Beach on west.
U.S. M.H.S on East
First St on South

458' to west side of building on Quarantine Sts 7.5 North to cor.

From Gila & San antonia
Ran N 0° 45' N mag. 350' to
St.
thence 350 to
175 to South line of old Lush
lot 50' west to cor fence which
shows that the line of Plugs are
in the middle line of San
Antonio Ave 350' to center of.

See page

Street Center or San Antonio Ave in La Playa

Feb 1 13 1893 Hamlin Williams Shaw.

Begun at the S.E. Cor of the Lot 3 Blk 124) and measured the south side of the fence.)

Set up over this point and old redwood plug 1"x2" 6" the center of San Antonio Ave

Thence S 0° 45' E mag. 350 along center of James St.

Thence S 0° 45' E mag ~~350' to~~
" " 350' to
" " 350 "
" " 350 "
" " 375' "
" " 375 "
" " 350 "
" " 350 "

From the center of San Antonio & Second St took the following Bearings (Spire of old Light house S 10° 15' E mag.
Spire of Coronado Hotel S 79° 0' E "
New flagstaff in Dual intine Block N 72° 30' E "

For Lusk Lot (which is S/2 of 50' into the street; (lined along measured N 0° 45' W (mag) 175' found below the surface, which is the center line of S.A. Ave to the & John St.

~~Center of James St~~
" " Pearl St
" " Gila St
" " Colorado
" " Custom House Ave
" " First St.
" " Second St.
" " Third St.

at the S.E. cor of Blk 124
there is an iron bolt; also
at the N.W. & N.E. cors of 121
probably set by Thompson
from Lush lots.

The old line of Plugs appears
to be in the center line
of San Antonio ave and
each of the cross Streets.
Probably set by Wheeler
or Pasteur

Hamlin

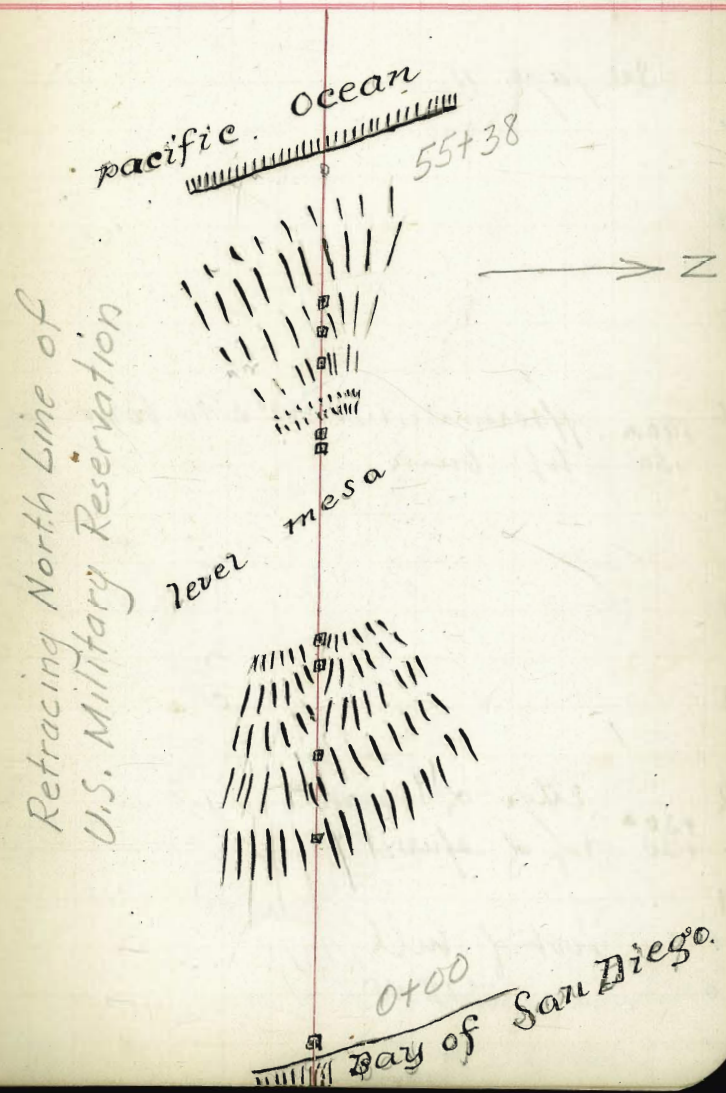
Retracing North line of U.S. Military Reservation on Pt Loma.

Feb 21 1893 Hamlin Cranch
Shaw
Williams
Cummings

Sta	Course	M.C.	Vert Angle	Rod	Hor Dist.	
See p. 8 for sketch.						
0	West	S 76° 15' W	+3° 45'	14.04	1398.0	Set up over stone: marked U.S.M.R. on top; The N. line of Military Res. Assumed Var. to be N 13° 45' E and run west by that Var.
13+98		S 76° 10' W.	+16° 10'	4.53	418	Sta 13+98 foot of steep hill M.C. is S 76° 10' W.
18+16			+11° 50'	5.31	509	Bench in hillside
23+25			+10° 20'	2.31	224'	
25+49			0° 0'	11.82	1182	Probably on line From Sta 25+49 S 34° 30' E mag 7.7 to a stone set on end; also N 84° 30' W mag 221' to a stake marked S.E.W. 105 From Sta 25+49 tower on Fairbanks House Bears N mag, and Old Light House S 20° W Mag

Retracing North line of U.S. Military Res. on Pt Loma

Sta	course	M.b.	Vert angle	Rod	Hor Dist	
37+31	West		0.0	0.77	77.0	From this point S 15° W mag 19' to 2x2" stake marked 66 on N.W.
38+08			-5° 0'	4.35	432.	Top of steep bank. M.C. S 76° 10' W
42+40			-5° 50'	1.79	177.	
44+17			-9° 40'	2.04	198.0	
46+15			-13° 40'	9.77	923	cr. at Sta 54+78 and 22.2' South
55+38						From that point S 83° 30' E mag 64' to a sand stone set on edge 1'9" x 3" 6" above ground, and marked U.S. M.R. on top

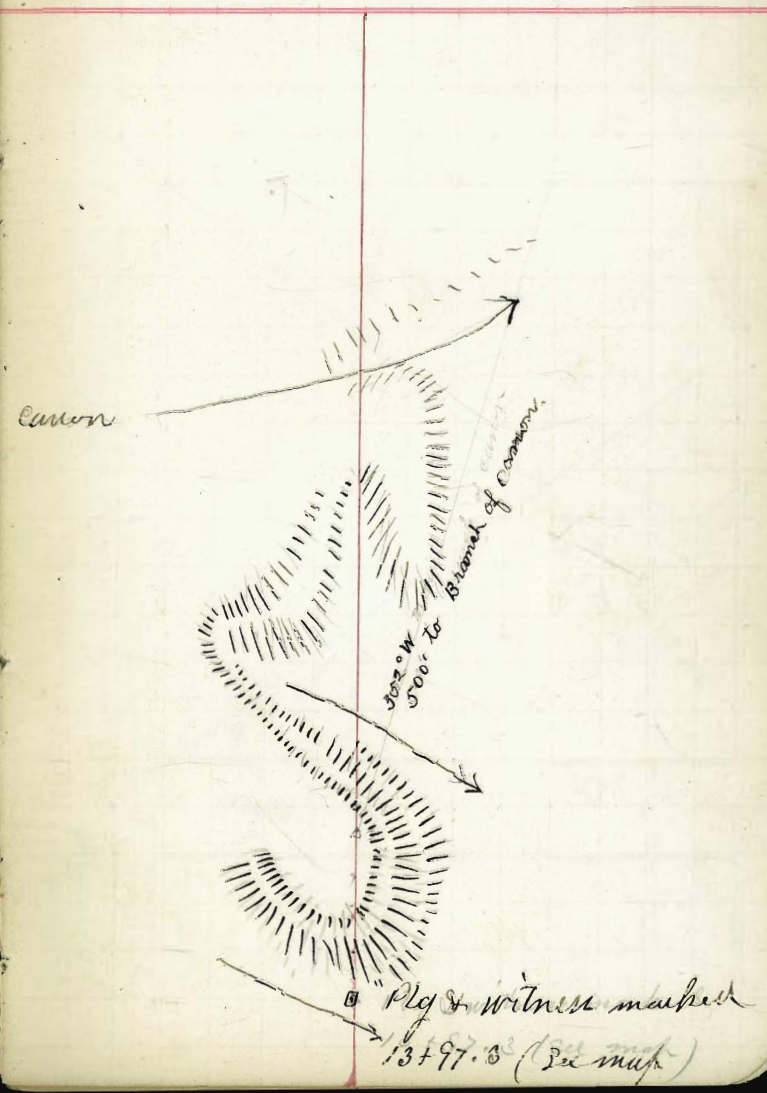

Pacific Ocean
55+38
N
Retracing North Line of
U.S. Military Reservation
level mesa
0+00
Bay of San Diego.

1358

line between Pueblo Lots 208 & 209

Feb. 23 1893 Hamlin
Shaw
Williams
Cummings

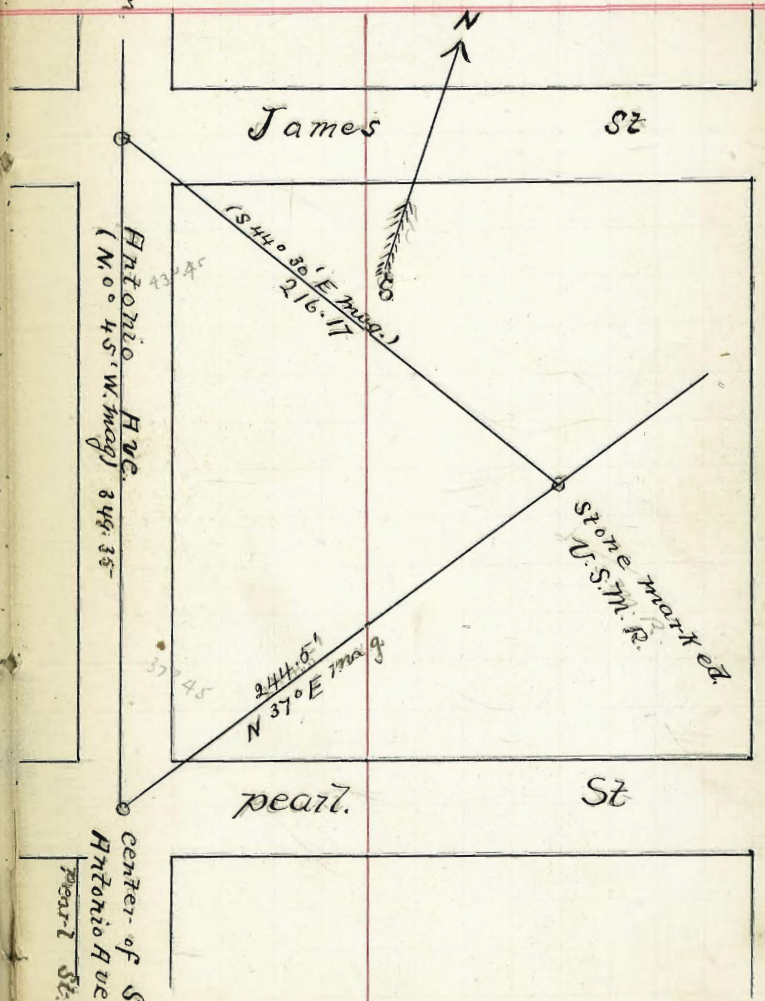
Sta	Course	M.C.
	See page 11	
9		
8		
7		
6 +90 △ +50	approximate dist S 87° W to branch of top bank	
5		
4		
3		
2 +30 △ +20	Edge of ravine top of spur	
1 +40	foot of hill	
0		S 22° W



Tie points to the N.E. corner of the U.S.W.R. on Pt Loma.

Feb 21-1893.

Hamlin
Shaw.
Williams
cumings



20
19
18
17
16
15
14
13
12
11
10

+41.3 Struck 1' East.

26

+50

25

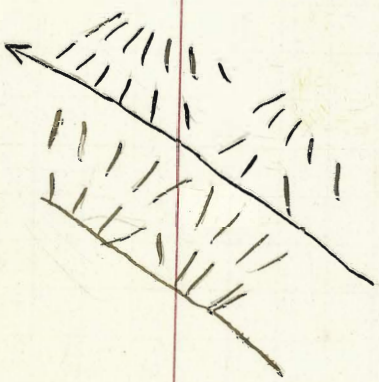
+60

24

23 North side of Ravine

22

21.



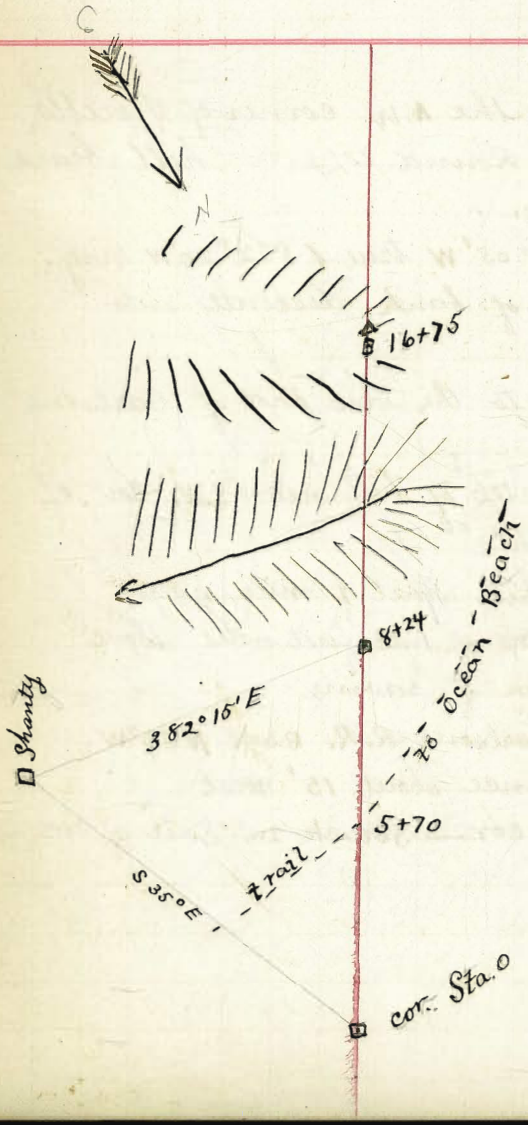
From this point S 15° W mag 19'
to white stake marked 66 on N.W

Line along the west side of 208
from N.W. cor of Roseville

Joint Resolution #335

Begun at a 6x6" stake set in
mound, the N.W. corner of 208
; also the NW. corner of Roseville
Thence ran S36°05'W true (S22°0'W Mag)
From cor S 35° E mag to shanty
" " N 4° 45' W mag to Sherman shanty
570 crossed trail to Ocean Beach
824 △ top of Ridge
S 82° 15' E mag to Shanty

1100 bottom of ravine
16+75 top of Ridge
17+17 △ line Point
N 72° 30' W to W End of Carlsons R.R. Bridge
N 34° 30' W to top of round hill
N 61° 40' E to shanty
2640' Struck 25.2 west of cor. Went
back and ascertained that cor from which
we started was 25' to far west
Therefore all bearings are 25' west of
line (correct in plating)



Line along the west line of 199
the west line of Roseville.

Feb 23 1893

Hamlin
Shaw
Williams
Cummings

all bearings mag unless otherwise noted

Began at the N.W. corner of Pueblo Lot 199, Round topped hill bears 35° E mag.

Ran S 36° 05' W true (S22° 20' W mag.

620 Δ top of bank descend into ravine

N 50° W to the west end of Carlsons R.R. bridge

S 77° W to top of hill near S.W. cor of Loma Heights

N 12° 3/4 W to hill about 1 mile north

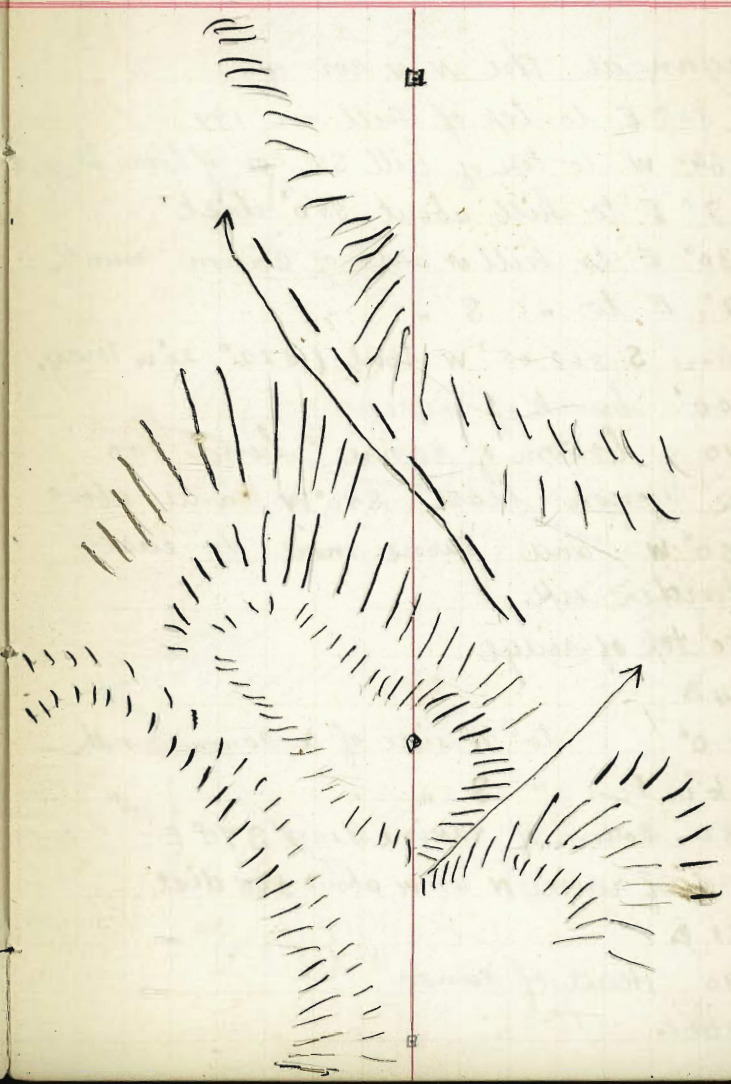
S 27° E to top of hill first noted above

1400 botton of ravine

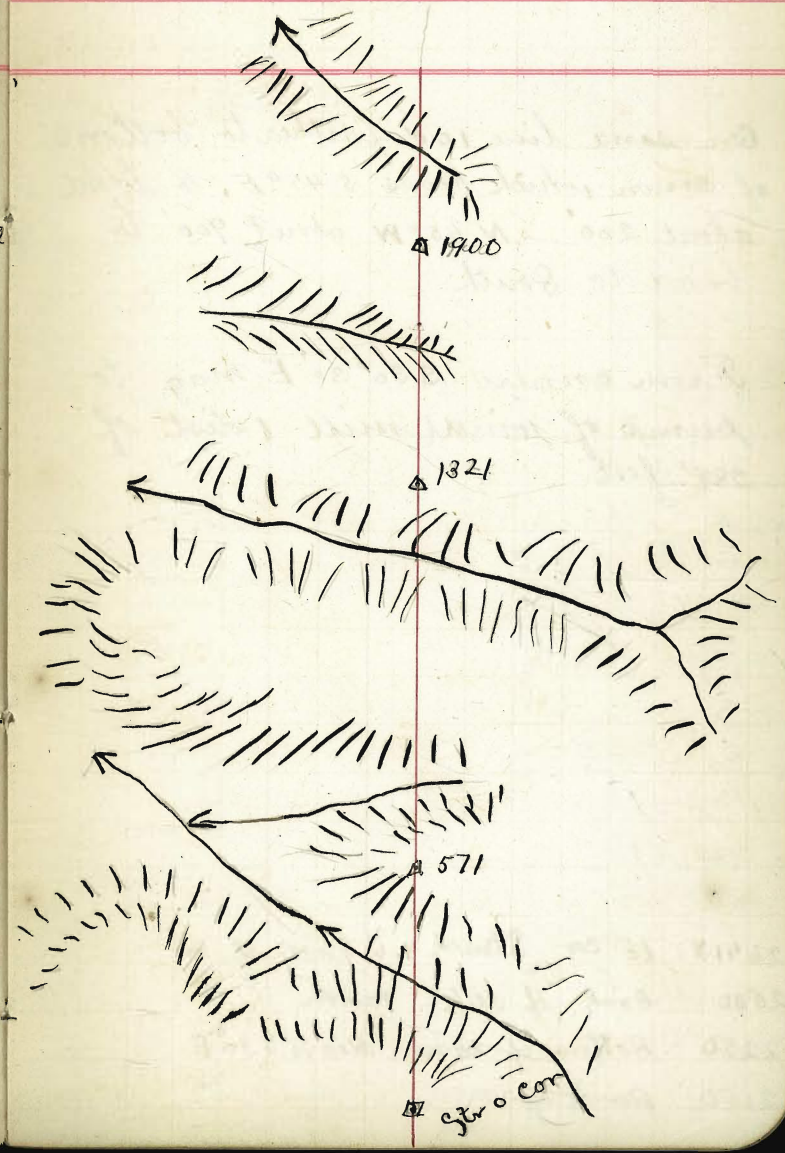
1430 to Carlsons R.R. Bears N 30° W

2085 to fence about 15' west

2346.? to cor. Struck 2.4' East of cor.



Began at the N.W. cor of
N 54° E to top of hill in 199
N 64° W to top of hill SW. cor of Loma Heights
N 7° E to hill about 350' dist
S 30° E to hill or side of canon mouth
S 17° E to " S " " "
run S 36° 05' W true (S 22° 20' W mag.
100' bank of ravine
240 bottom of ravine bend 100
up canon bears S 40° W and above
S 50° W and turns more to east
farther up.
550 top of ridge
574 △
E 0° to N side of a canon mouth
S 6° E " S " " " "
1150 Bottom of ravine Bears S 70° E
Head of ravine N 45° W about 500' dist
1321 △
1390 Head of canon
1900 △



On same line 100' farther to bottom of canon which bears S 45° E. to bend about 200' N 45° W about 900' to bend to South.

From corner S 30° 30' E mag to pump of wind mill (dist of 288' feet.

26418 to cor Struck 4.4' East of cor.
2500 Bank of deep canon
2250 Bottom of canon Bears S 30° E
2150 Bank of ravin.

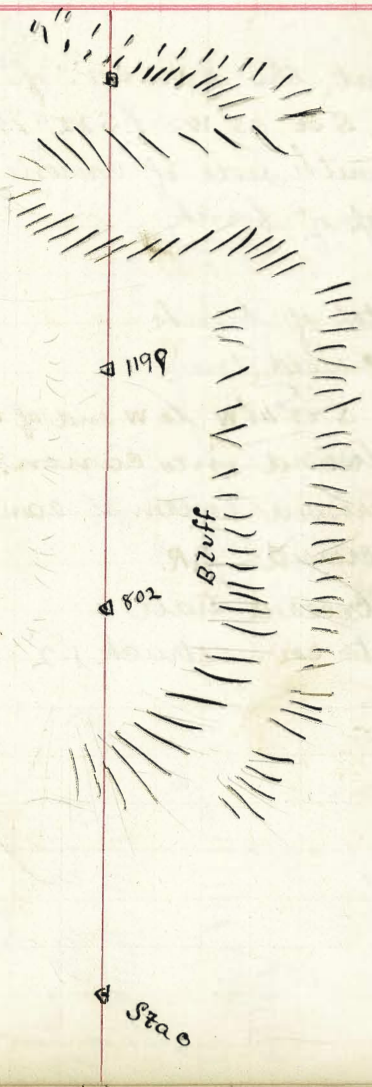
Line along west side of 210.

Feb 27 1893

Hamlin
Shaw } chain
Cummings
Williams

Began at the N.W Cor of 210; ran
S 36° 05' W true (S 22° W mag)
Over level land
300' to foot of gentle rise
700' top of hill
802 △ Line
1199' △ Line
N 34° 45' W mag) ① to point of land in marsh
(N 88° W mag) ② " " " " " "
N 68° 45' W ") ③ to " " " mouth of slough
1500 bottom of
1861.5 △
N 59° W to ②
N 53° 30' W to ③
N 21° 45' W to ①
2524.5 △
2642.5 SW. Cor 210 Struck 25' west of Cor
(Weather very windy.)

(Weather very windy.)



Line along the west side of 207

Feb 27 1893.

Hamlin
Shaw
Cummings } Chain.
Williams

Begun at the N.W. cor of 207
ran S 36° 05' W (S 22° 15' W mag)
600' South side of canon
900' top of bank
937.2 △
1100 top of bank
1140 crossed trail
1557 △ S 85° 45' W to W end of R.R. bridge
1700 descend into canon.
1990 crossed bottom of cannon
2240 crossed R.R.
2300 crossed trail
2638 to cor struck 1.2' East of Cor.

Line along the west side of 200

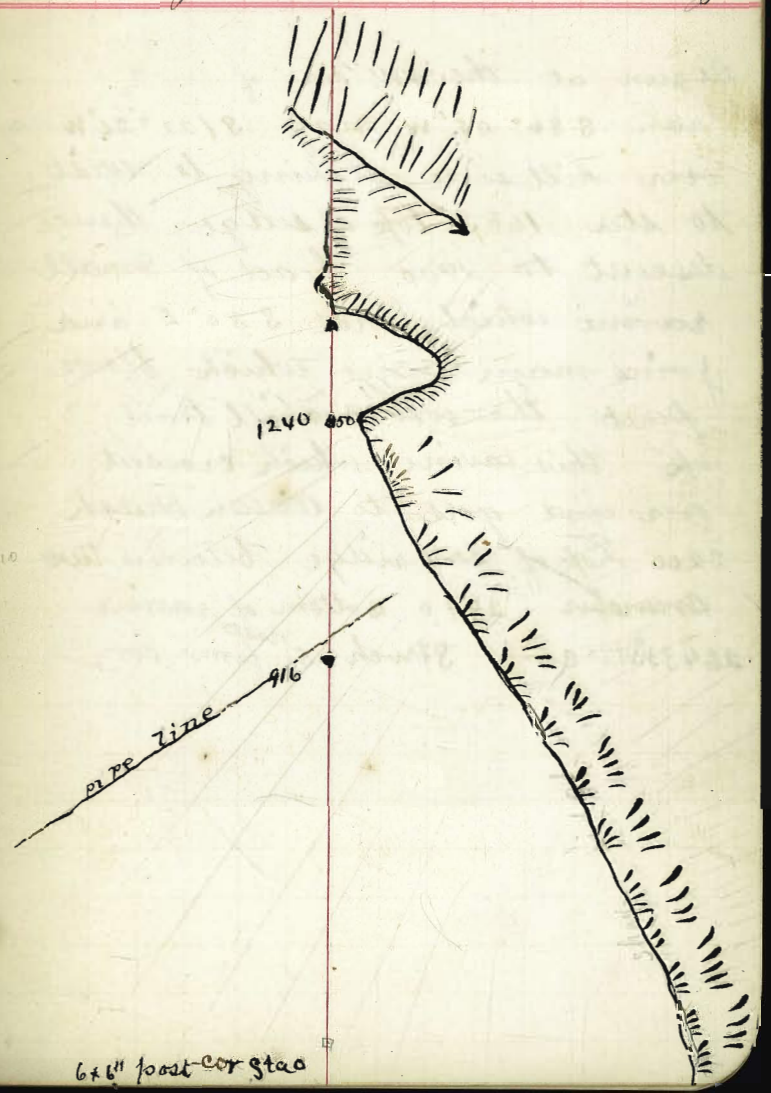
Feb 27 1893.

Hamlin
Shaw
Cummings } Chain.
Williams

R.R. bridge Bears (N 70° W)

Long

Began at the N.W. cor of 200 ran.
S 36° 05' W (S 22° 20' W mag)
523' crossed trail
916 △ line
925 crossed pipe line
1240 △
14+17 △
1485 top of steep bank.
(N 35° W) N End of wash ①
(N 54° 45' W) S " " " ②
S 63° W) to End of spur ③
2371 △ Line
N 13¾° W to End of wash ①
N 20° W to S end of " ②
N 5° W to End of spur ③
1750 botton of canon.
2500 top of Bank.
2535 △
2639.1 to SW cor struck 1.1 East.



Line along the west side of

Feb 27 1893

Hamlin
Shaw
Cummings
Williams

Begun at the N.W. cor of
ran S 36° 05' W mag S 122° 26' W May
over hill side sloping to west
to sta 1683 top of ridge thence
descent to 1900 head of small
ravine which flows S 30° E and
joins main ravine which flows
past the wind mill trail
up this ravine which crossed
over and goes to Ocean Beach
2200 Top of low ridge between two
Branches 2440 Bottom of ravine
2643 1st. cor Stuck .5 calc from cor.

Line along the west side of 201

Feb 28 1893

Hamlin
Shaw
Cummings
Williams

Set a point on the North line of 201
90' East of N.W. cor of 201. from
this ran S 36° 05' W (S 22° 20' W mag.
(With carfule measurment)

568	to N line of fence 3' to west
550 △	Line
709	South line of fence 3' to west
789	North line of fence 3 to west
929	South line of fence 3' to west
1600'	Line
2640'	90° to R 100.4 to cor. Struck 1.5 North

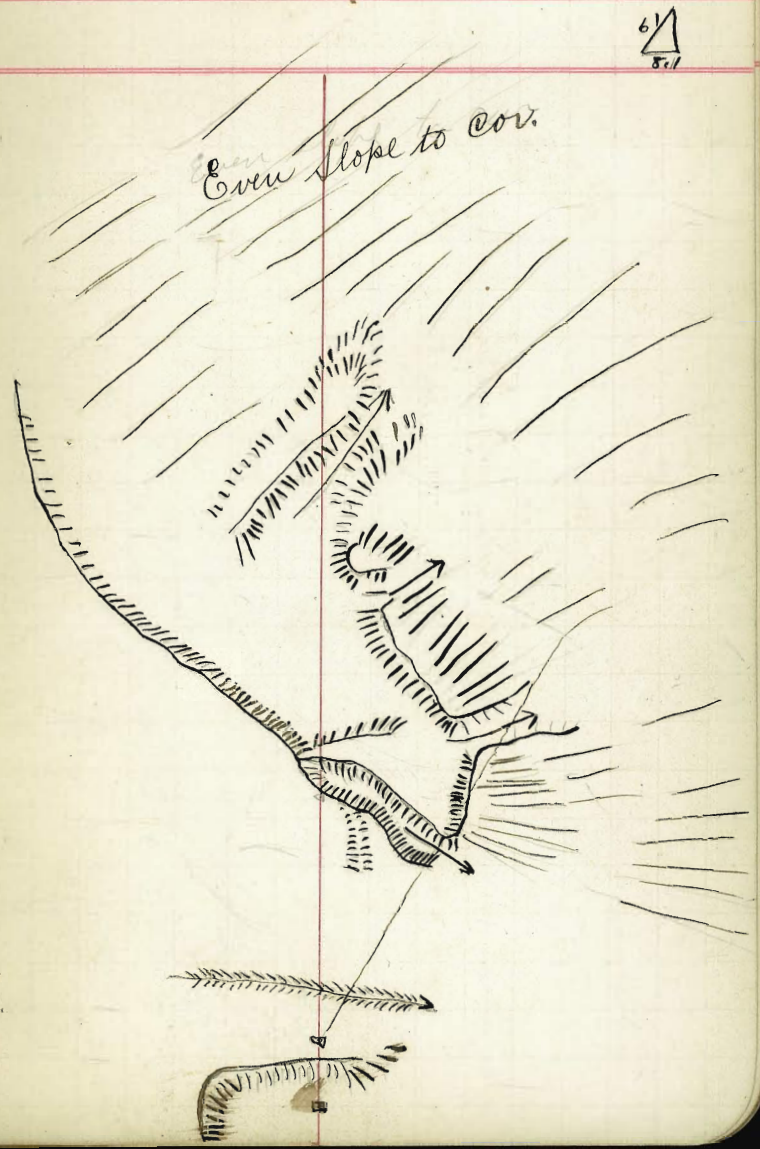
Line along the west side of 196

Began at the N W cor of 196
Ran S 36°05' W true S 22°30' W mag.)
100' top of wash
114' Line point.
① N 55°30' W mag Ocean Beach Hotel
② S 53°45' W mag. End of spur
235 to gulley
6+50 △ Line
① N 52°30' W mag. Ocean Beach Hotel
② N 70°30' W mag. End of Spur
6'55 bank of deep wash
725 " " " "
1400 " " ravine
1413 △ Line point
1450 top of hill
1500 bottom of Hill.
From 1413 N 36° W to Ocean Beach Hotel.
S 85 30' W to Shanty
S 30 45' E to Cliffs House on Hill in 191
2645

Feb 28 1893

Hamlin
Shaw
Cummings
Williams

23



meander line along the west side of 195

Chest	Azimuth	M.C.			

West line of Publo Lot 202

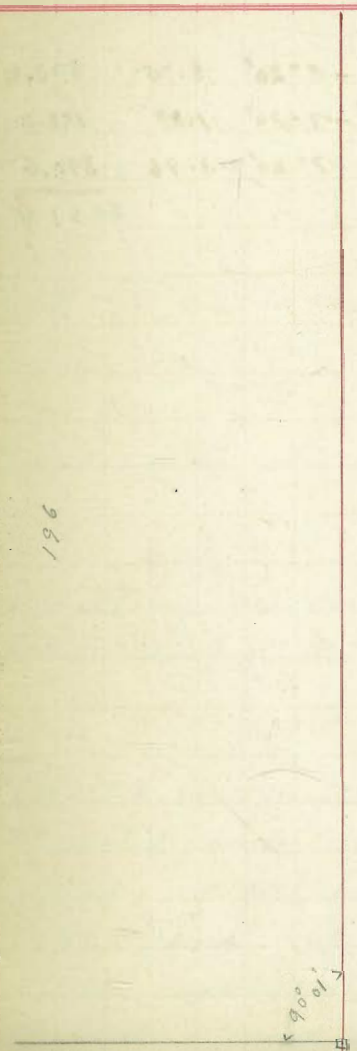
Began at the S.W. cor of 202 ran
N 36° 05' W True (N 22° 45' E mag)

From cor N. 37 3/4° mag. W to Ocean Beach Hotel

2642.5 to cor 11.5 west of Line

Line bet 196 and 201

Sta	Def	Course	Vert	Rod	Dist.
0			-0° 25'	7.24	724.9
724.9			+3° 50'	1.92	192.0
916.9			+3° 40'	5.18	516.9
1433.8			+0° 30'	1.85	186.0
1619.8			-2° 0'	4.06	406.5
2026.3			-1° 0'	3.90	390.9
2417.2					



Line along south side of 196
by Stadia.

Sta	Course	vest	Rod	dist	measure	
		-3°26′	8.75	873.0	872.5	86+77.3
		-3°30′	1.88	188.4	189.0	82+66.3
		-7°20′	3.96	390.5	390.8	86+57.1 (cor)
				1451.9	1452.3	
					1189.2	
					2641.5 ← to cor 195 – 196	

95+17.4 to check line

Set up on S.W. cor 196 – 90° – Struck
4.5 West of N.E. Cor of 196

At N.W. Cor 196 found line out .06′
conected and turned 89°59′ measured
offset at Sta 114 on West line of
196 found it to be .14′ from
this calculated offset at
SW cor and made it 4.8′ which
agrees with above offset.

Check of measurement from Sta 96+19.8
East from N line of Ocean Beach.

Sta

809.0	to Sta 88+10.7 check line
1837.0	to Sta 77+85
389.6	to cor 200 & 201
2226.6	
415	
2641.6	

389.35

Apr. 8. 1893 Hamlin
Williams Shaw.

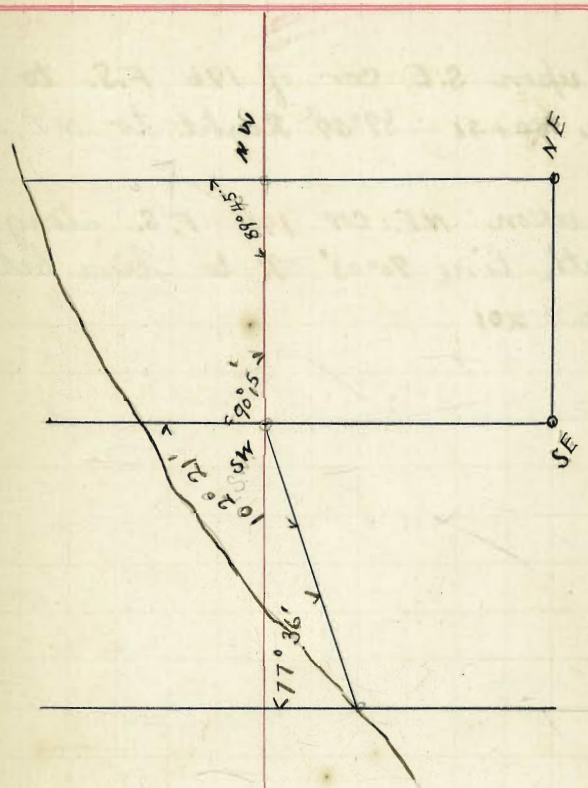
Check of meas along North of 201

0	= Sta	=	69+79.8
415.0	to Sta	—	73+94.8
389.4	" "	—	77+84.2
915.1	" "	—	8699.3
919.8	" "	—	96+19.1
2639.3			

69 79.8
2639.3
9619.1

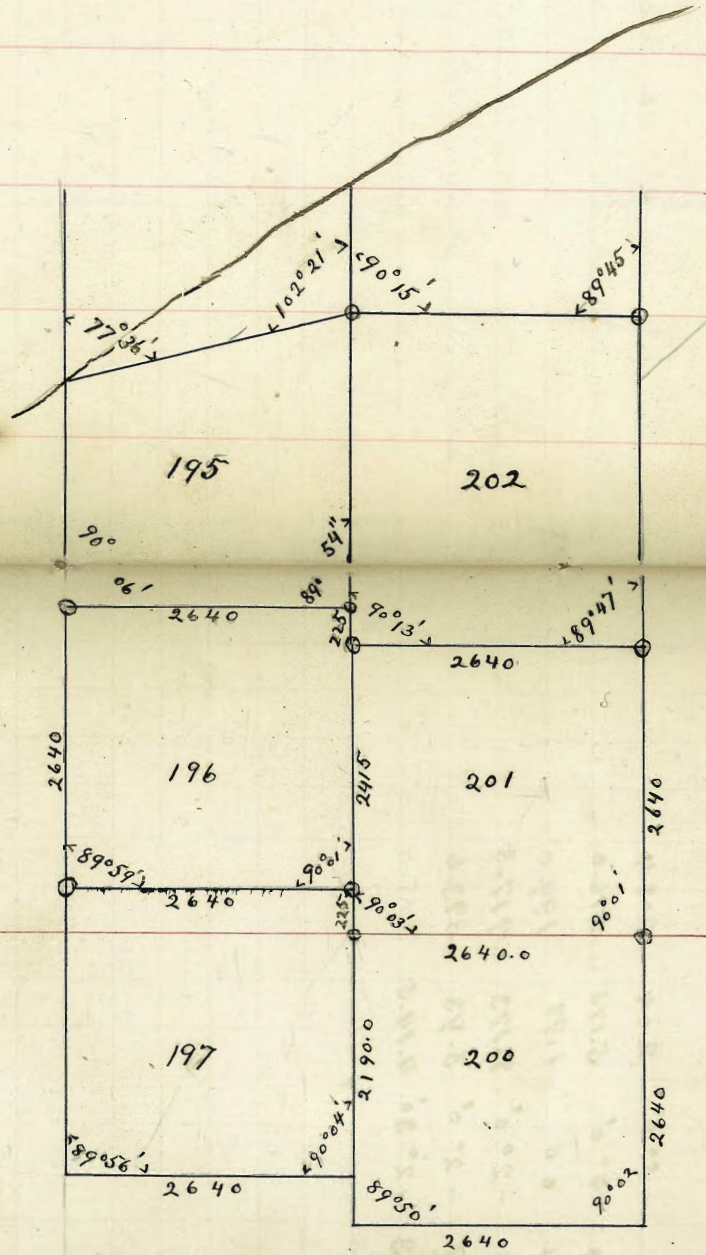
Set up at N.W. Cor 206 B.S. to N.E. Reversed L to SW Cor 89° 45' L

Set up at SW Cor 206 B.S. to SE Reversed 90° 15' to NW cor.



Set upon S.E. Cor of 196 F.S. to
Sta 80+31 89°59' Right to N.E. 196

Set upon N.E. Cor 196 F.S. along
north line 90°03' R. to line bet
200 & 201

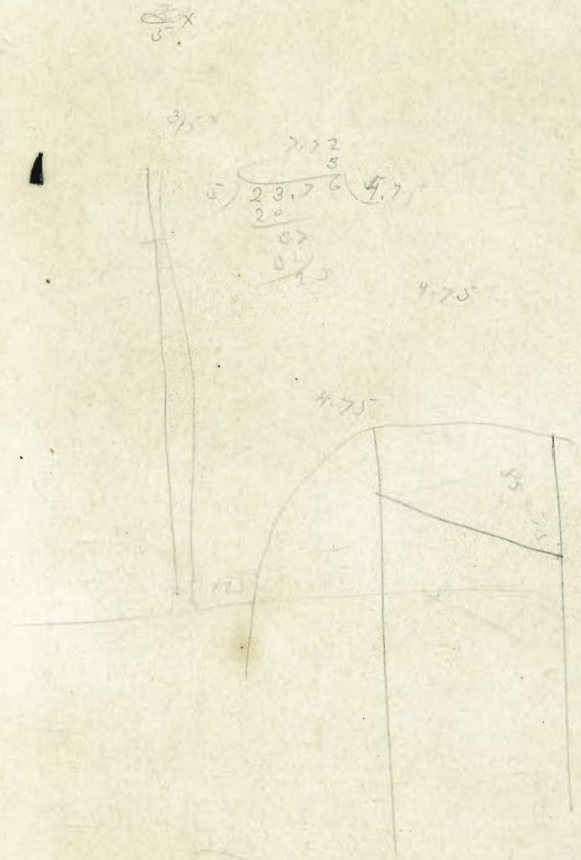

195
202
196
201
197
200
2640
2415
2190.0
2640.0
77°36'
102°21'
90°15'
89°45'
90°13'
89°47'
89°59'
90°01'
89°56'
90°04'
89°50'
90°02'
90°03'
225

Dist	Vert	Rod	Horz Dist		
0	- 5° 0′	2 04	203.4		
203.4	+4° 0′	5.175	516.0		
719.4	0 0	1.98	199.0		
918.4	-2° 0′	9.173	917.3		
1835.7	- 2° 0′	3.93	393.6		
(2229.3	- 2° 30′	4.14.5	415.0		
2644.3					

From N.E. cor of 196 S 41°15' W
Mag. to Cliff House in P.L. 191

82+70

N 30° W



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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.		

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