

ROAD SURVEY'S  
CASS LAKE DIST.

DIETZGEN  
MINING

MINING  
TRANSIT BOOK

No. 422F

CCC

65



June 27-39.

Lake State cutoff. New road

Sta. Bear. Dist. Notes

12012 + 12950

S 88° E. 938 ✓ 132+22

12950 + 13260

S 79½° E 318 ✓ 135+32

13260 + 13771

N 89¾° E 511 ✓ 140+43  
to center of Cuba-Sucker  
Bay road.

13,771

Plotted  
8/16/59

12012

938

12950

318

13260

511

13,771



Locken Bay rd.

Sta.	Bear	Dist	Notes
27419+27662	301		started at 18' N42 $\frac{1}{2}$ ' W from
	S88 $\frac{3}{4}$ ' E	243 ✓	blazed tree <del>621+86</del> 522+52
27662+27779			
	S56° E	117 ✓	<del>623+03</del> 523+69
27779+27911			
	S19° E	132 ✓	<del>624+35</del> 525+01
27911+28502			
	S2° E	591 ✓	to <del>530+26</del> 530+92 Cubert mixed H W some bals.
28502+28598			
	S2° E	96 ✓	<del>631+22</del> 531+88
28598+28633			
	S28° E	35 ✓	to <del>631+59</del> Cubert 532+23
28633+28795			
	S. 28° E	162 ✓	<del>633+19</del> 533+85
28795+28961			
	S53° E	166 ✓	<del>535+51</del> some cedar <del>634+79</del> to cubert barwood
28961+29356			
	S53° E	395 ✓	<del>638+27</del> yellow oak aspen birch 539+46 to cubert
29356+29905			
	S53° E	549 ✓	<del>644+23</del> trail goes to left. 544+95
29905+30023			
	S47 $\frac{1}{2}$ ' E	118 ✓	<del>645+41</del> 546+13
30023+30094			
	S3° W.	71 ✓	large maple <del>646+10</del> 546+84
30094+30462			
	S25 $\frac{1}{2}$ ' W	368 ✓	<del>649+80</del> 550+52

27419

~~243~~

27662

117

27779

132

27911

591

28502

96

28598

35

28633

162

28795

166

28961

395

29356

549

29905

118

30023

71

30094

368

30462



STA	Bear	Dist	Notes
30462 + 30637	S 36 1/2° W	175 ✓	<del>651+55</del> 552+27 magnesium oil
30637 + 30710	S 25 1/2° W	73 ✓	<del>652+58</del> 553+0
30710 + 30763	S 45 1/2° W	53 ✓	<del>653+11</del> 553+53
30763 + 30969	S 27 1/2° W	206 ✓	<del>655+17</del> 555+59
30969 + 31183	S 58° W	214 ✓	<del>657+31</del> 557+73
31184 + 31251	S 57° W	68 ✓	<del>657+99</del> 558+41
31251 + 31460	S 74° W	209 ✓	<del>660+08</del> to end of rd. 560+50 Lucken Bay
31460			

TT. 4516  
 plotted - 7/12/39  
 Rec checked - for additions  
 + stations 8/29/39  
 OM

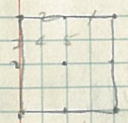
30462
175
30637
73
30710
53
30763
256
30969
214
31183
68
31251
209
31460



Squaw Pt. 4520

Sta.	Bear	Dist	Notes
0+733			0+= 0+00
	S 8 1/2° W	733 ✓ 7+33	Start center of PIKE BAY Loop Rd.
733+1101	S 1 1/2° W	B 68 ✓ 11+01	to rd, due west yellow post marked 4.3 ch. W to 1/4 cor. 34 no post found.
1101+1479	S 1 1/2° W	✓ 378 ✓ 14+79	
1479+2641	S 1° E	✓ 1162 ✓ 26+41	S 86° E 28' to B.T. marked 1/16 S #5 no cor.
2641+3851	S 17° E	✓ 1210 ✓ 38+51	Jack pine some Noire
3851+4155	S 27° E	✓ 1304 ✓ 41+55	
4155+5020	S 36 1/2° E	✓ 865 ✓ 50+20	
5020+5501	S 38 3/4° E	✓ 481 ✓ 55+01	
5501+5883	S 37 1/2° E	✓ 382 ✓ 55+83	
5883+6356	S 35 1/2° E	✓ 473 ✓ 63+56	Jack pine some aspen
6356+6858	S 25° E	✓ 502 ✓ 68+58	to culvert
6858+7032	S 25° E	✓ 174 ✓ 70+32	post marked 7 to ch. E to
7032+7083	S 18 1/2° E	✓ 51 ✓ 70+83	to survey line post 12' from rd.

733  
 368  
 7101  
 378  
 1479  
 1162  
 2641  
 1210  
 3851  
 300  
 4155  
 865  
 5020  
 481  
 5501  
 382  
 5883  
 473  
 6356  
 502  
 6858  
 174  
 7032  
 51  
 7083



Sec. Cor, tack set in 1/4 cor 3/10 T 144 N R 31 W



STA	Bear Dist.	
7083 + 7495	S 18 1/2° E ✓ 412 ✓	74+95
7495 + 8421	S 24° E ✓ 926 ✓	84+21
8421 + 9121	S 12° E ✓ 700 ✓	91+21
9121 + 9831	S 15 1/2° W ✓ 710 ✓	98+31 <i>Jackpines Some N. Pine</i>
9831 + 10697	S 1° E ✓ 866 ✓	106+97 <i>Swamp to right</i>
10697 + 11702	S 1° E ✓ 1005 ✓	117+02 <i>small Jackpines - some birch</i>
11702 + 12430	S 1° E ✓ 728 ✓	124+30 <i>to center of crossroad</i>
12430 + 13967	S 87° E ✓ 1537 ✓	139+67
13967 + 14954	S 87° E ✓ 1987 ✓	149+54 <i>to culvert</i>
14954 + 15167	S 87° E ✓ 213 ✓	151+67 <i>marked 14 N 16° E yellow post 1.09 ch. W to 1/4 cor S 11/14 approx</i>
15167 + 15517	S 54 3/4° E ✓ 350 ✓	155+17 <i>to culvert Swamp hill side of rd.</i>
15517 + 16040	S 54 3/4° E ✓ 523 ✓	160+40
16040 + 16424	S 19° E ✓ 384 ✓	164+24 <i>aspen birch</i>

11  
14

7083
412
7495
926
8421
700
9121
710
9831
866
10697
1005
11702
728
12430
1537
13967
14954
273
15167
350
15517
523
16040
384
16424



STA	Bear	Dist
16424 + 16810	S.38°E.	386 ✓ 168+10
16810 + 17122	S.41°E.	312 ✓ stopped at stake 4.2 ft to left.
17122		

16424

386

16810

312

17122

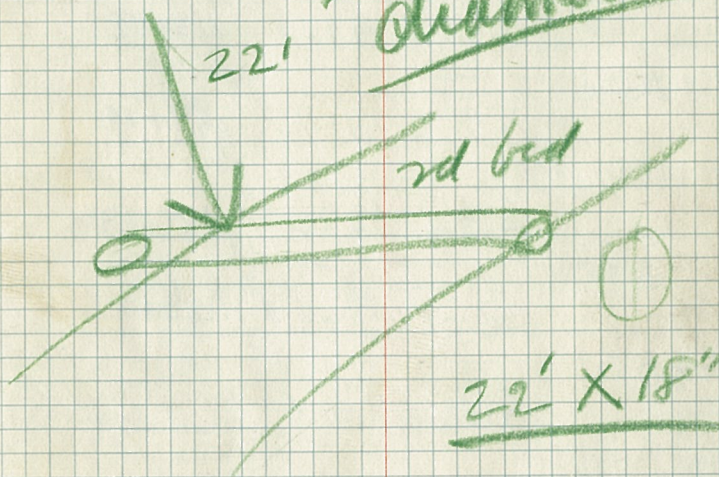
Note

Smith

get measurements

of culverts -  
length &

diameters.





June 29, 1939

S.T. 4520 - Squaw Pt. Riv  
Bear Dist

17,122 + 17198	S 28 1/2° E	✓ 76 ✓	to culvert L. 27 D 12" in millers, aspen some Norway pine
17198 + 17370	S 28 1/2° E	✓ 172 ✓	173 + 70
17370 + 17925	S 51 1/2° E	✓ 555 ✓	to LAKE 13 Camp ground 179 + 25
17925 + 18099	S 18 3/4° E	✓ 174 ✓	180 + 99
18099 + 18414	S 9° E	✓ 315 ✓	184 + 14
18414 + 18696	S 19 1/2° E	✓ 282 ✓	186 + 96
18696 + 18899	S 23 1/2° E	✓ 203 ✓	188 + 99
18899 + 19509	S 10 1/2° E	✓ 610 ✓	Swamp to right lake 13 to left 195 + 09
19509 + 19723	S 39° E	✓ 214 ✓	197 + 23
19723 + 20078	S 59 1/2° E	✓ 355 ✓	200 + 78 to yellow post N 23° E 31 1/2 W marked W. 5 1/2 lbs. Sec. marker indication S 1/4 13
20078 + 20497	S 67° E	✓ 1419 ✓	T 144 N R 31 W no color line 204 + 97
20497 + 20552	S 33 1/2° E	✓ 155 ✓	205 + 52
20552 + 20837	S 15° E	✓ 285 ✓	to culvert L. 27 D 12" both sides 208 + 37
20837 +			

4 25

17,122	
76	
17198	
172	
17370	
555	
17925	
174	
18099	
315	
18414	
282	
18696	
203	
18899	
610	
19509	
214	
19723	
355	
20078	
419	
20497	
55	
20552	
285	
20837	



	Bea.	Dist	Notes
20837 + 21101	S.15°E.	264 ✓	211+01
21101 + 21306	S35½°E	205 ✓	213+06 to culvert L. 23'D18" swamp on both sides some young birch
21306 + 21426	S35½°E	120 ✓	214+26
21426 + 22154	S42½°E	728 ✓	221+54
22154 + 22312	S38°E	158 ✓	223+12 to fall Dues. 32' W. 1/16 S. 22. 73 24 G.L.O.
22312 + 22612	S38°E	300 ✓	226+12
22612 + 23416	S37°E	804 ✓	234+16
23416 + 23622	S40°E	206 ✓	to culvert L. 27'D12" 236+22
23622 + 23696	S46°E	174 ✓	jack pine, aspen 236+96
23696 + 24227	S8°W	531 ✓	242+27
24227 + 24617	S22°W	390 ✓	246+17 to culvert L. 27'D12" small jack pine aspen, some birch
24617 + 25273	S22°W	656 ✓	to culvert 252+73
25273 + 25639	S22°W	366 ✓	continued 443 256+39
25639			

20837
264
21101
205
21306
120
21426
728
22154
158
22312
300
22612
804
23416
206
23622
174
23696
531
24227
390
24617
656
25273
366
25639



STA BEAR DIST. <sup>P</sup> ~~check~~ <sup>up</sup> ~~Smith~~  
 25639 + 26110 ✓ S 2 1/2° W 471 ✓ to line N + S. measure  
 26110 + 26962 ✓ S 21 1/2° W 852 ✓ 640' Due N.  
 26962 + 27394 ✓ S 17 1/2° W 432 ✓ to line W 1/2 Sec. 24  
 27394 + 28316 ✓ S 17 1/2° W 922 ✓ to yellow post side  
 28316 + 28838 ✓ S 20° W 522 ✓ 272° E 28316  
 28838 + 29132 ✓ S 7 1/2° W 294 ✓ no cor. found  
 29132 + 29377 ✓ S 18° E 245 ✓ mark Sec. 24  
 29377 + 29660 ✓ S 27 1/2° E 283 ✓ tech indication W 1/2 25  
 29660 + 30334 ✓ S 7° E 674 ✓ small dead pine  
 30334 + 30560 ✓ S 11° W 226 ✓ some large Norway Pine  
 30560 +

25639  
 471  
 26110  
 852  
 26962  
 432  
 27394  
 922  
 28316  
 522  
 28838  
 294  
 29132  
 245  
 29377  
 283  
 29660  
 674  
 30334  
 226  
 30560







STA	Bear Dist	Notes
35605+35875	S47°E / 270 ✓	358+55
35875+36245	S54°E / 370 ✓	362+25 to Culvert L. 20 D. 18" Mixed H.W. some W. pine
36245+36364	S54°E / 119 ✓	363+44
36364+36725	S70½°E / 361 ✓	open oak some large White pine 367+05
36725+37236	N71½°E / 511 ✓	372+16
37236+37340	N76°E / 104 ✓	to fall 13' 0" S of yellow post post marked 10.26 Ch
37340 +	373+20 ✓	S to Sec. 25/30 36/31
		655 ft 0" N. from Sec. Cor 25/30 G.L.O. 36/31
37340 +		Stopped 13' S. of yellow post.

rechecked  
8/29/29  
JMM

35605	355+85	642
270	270	13
35875	358+55	455
370	370	
36245	362+25	
119	119	
36364	363+44	
361	361	
36725	367+05	
511	511	
37236	372+16	
104	104	
37340	373+20	

10.266	
6156	
6156	
677.1	

655  
138  
668



June 30, 39.

STA	Bray. Dist.	Notes
37340+37854	S 79½° E 514 ✓	378+39 STAYE. 655 S Sec. Cor. 25/30 35/31
37854+38256	N 83° E 402 ✓	to culvert 22' D. 12" 382+36
38256+38483	N 83° E 227 ✓	to culvert 22' D. 12" 384+63
38483+38760	N 83° E 277 ✓	387+40 mpt H. W. some V. pine
38760+39257	N 77° E 497 ✓	392+37
39257+39884	N 88° E 627 ✓	small aspen 398+64
39884+40245	S 68½° E 361 ✓	402+26
40245+40745	S 48° E 500 ✓	to culvert 6.20' D. 12" 407+25
40745+40834	S 48° E 89 ✓	small aspen some elm 408+14
40834+41060	S 16½° E 226 ✓	410+40
41060+41392	S 6° W 332 ✓	413+72
41392+41637	S 16° W 245 ✓	416+17
41637+41958	S 7° W 321 ✓	aspen + birch some 419+87 V. pine

37340	373+20
<del>514</del>	514
37854	378+34
402	402
38256	382+36
227	227
38483	384+63
277	277
38760	387+40
497	497
39257	392+37
627	627
39884	398+64
361	361
40245	402+26
500	500
40745	407+25
89	89
40834	408+14
226	226
41060	410+40
332	332
41392	413+72
245	245
41637	416+17
321	321
41958	419+87



STA	Bear Dist	Notes
41958+42544	✓ S 17° W 586 ✓	425+24
42544+42784	S 19° W 240 ✓	aspen some birch 427+164
42784+43123	S 5½° W 339 ✓	431+03
43123+43457	S 3° E 334 ✓	aspen some W. pine 434+37
43457+43975	S 1½° E 518 ✓	439+55
43975+44299	S 29½° E 324 ✓	442+99
44299+44685	S 3½° E 386 ✓	aspen birch some maple 446+65
44685+45188	S 22° E 503 ✓	451+68
45188+45310	S 5½° E 122 ✓	to culvert L 20' D 12" 452+90
45310+45585	S 5½° E 278 ✓	aspen some W. pine 455+68
45585+45646	S 8½° W 58 ✓	to culvert L 20' D 12" 456+96
45646+45964	S 8½° W 320 ✓	459+46
45964+46488	S 18° W 552 ✓	to 376' 5" NW corner 464+98

41958

586

42544

240

42784

339

43123

334

43457

518

43975

324

44299

386

44685

503

45188

122

45310

278

45588

58

45646

320

45964

552

45966

522

46488

#4. Sec. 6 T 143 N R 30 W G.L.O.



STA	Bearing	Dist.	Notes
46488 + 46700	S. 18 1/2° W.	212 ✓	to culvert L. 20' D 12" 467+10
46700 + 46965	S. 18 1/2° W.	265 ✓	W. pine, spruce, aspen birch 469+95
46965 + 47271	S. 39° W.	306 ✓	472+81
47271 + 47500	S. 56 1/2° W.	229 ✓	to culvert L. 36' D. 12" 475+10
47500 + 47777	S. 56 1/2° W.	277 ✓	477+89
47777 + 48102	S. 26 1/2° W.	325 ✓	aspen, elm 481+12 some maple
48102 + 48368	S. 10° W.	266 ✓	483+98
48368 + 48694	S. 8° W.	326 ✓	487+09
48694 + 49240	S. 14° W.	546 ✓	492+50 aspen some W. pine
49240 + 49318	S. 25° W.	178 ✓	to culvert L. 20' D 12" 493+28
49318 + 49771	S. 25° W.	453 ✓	to culvert L. 20' D 12" 497+81
49771 + 49991	S. 44° W.	220 ✓	500+01
49991 + 50319	S. 68° W.	328 ✓	503+29 aspen some oak

5380  
8  
10560

42000  
37340  
50762

46488
212
46700
265
46965
306
47271
229
47500
277
47777
325
48102
266
48368
326
48694
546
49240
78
49318
453
49771
220
49991
328
50319



STA.	Bear Dist	Notes
50319+50724	S.33°W. 405 ✓	to culvert L20'D12" 507+34
50724+51121	S.20°W. 397 ✓	open oak maple forest 511+31
51121+51364	S.1°W. 243 ✓	to culvert L24'D16" 513+14
51364+51626	S.1°W. 262 ✓	516+36
51626+52079	S.2°E. 453 ✓	520789
52079+52497	S.9°W. 418 ✓	525107
52497+53068	S.30°W. 571 ✓	530+10 marked 5 ch. S.
53068+53302	S.22½°W. 234 ✓	102 yellow pines 533+12
53302+53430	S.49°W. 128 ✓	to fall N.0° of 1/4 cor. S. 174' 534+50 open w/ <u>fruits</u>
53430+53714	S.64°W. 284 ✓	537+24
53714+54142	S.84½°W. 428 ✓	to culvert L20'D.12" 541+52
54142+54562	N.84½°W. 420 ✓	545+92
54562+55162	N.79°W. 600 ✓	open from N. pine 551+92
55162+		

50319
405
50724
397
51121
243
51364
243
51626
453
52079
418
52497
571
53068
234
53302
128
53430
284
53714
428
54142
420
54562
600
55162



STA	Bear Dist	Notes
55162 + 56070	N86°W 1908 ✓	560+80 S2°W 71 ft to 1/4 cor
56070 + 56543	S72°W 473 ✓	Sec. 12 GLO 565+53 Jack pine
56543 + 56604	S41°W 161 ✓	to center L. 22' D. 16" 566+14
56604 + 56702	S41°W 198 ✓	567+12
56702 + 57580	S17°W 878 ✓	small some pine 575+90 aspen Jack pine
57580 + 58195	S21°W 1615 ✓	582+05 Stopped set stake
58195 #		8 ft to left of rail.

55162

~~908~~

56070

~~473~~

56543

~~161~~

56604

~~198~~

56702

~~878~~

57580

~~615~~

58195

58195

~~37340~~

20855



STA	Bear Dist	Notes
58195+58558	S 51½° W 363 ✓	585768
58558+58585	S 69° W 227 ✓	585+95 to line N45° roots 28' N 0° from ridge post marked like N to 11 1/2 for Sec. 29/28 no cor found
58585+59097	S 69° W 512 ✓	591707
59097+59434	S 45° W 337 ✓	Jack pine some aspen 594+44
59434+60007	S 43° W 573 ✓	to fall S 43° E. 18' of yellow post. marked
60007+	600+17	4 1/2 ch W to Sec. cor. 11/12 318' from 14/13 post to Sec. cor 11/12 14/13 G.L.O.
60007+60337	S 46° W 330 ✓	603+49
60337+60510	S 38½° W 173 ✓	605+20
60510+61024	S 49½° W 514 ✓	Jack pine aspen some N. pine 610+34
61024+61698	S 61½° W 674 ✓	617+08
61698+61965	S 38½° W 267 ✓	oak Jack pine 619+95
61965+		

58195  
~~583~~  
 58538  
~~27~~  
 58585  
~~582~~  
 59097  
~~337~~  
 59434  
~~573~~  
 60007  
~~330~~  
 60337  
~~173~~  
 60510  
~~514~~  
 61024  
~~674~~  
 61698  
~~267~~  
 61965



STA	Bear. Dist	Notes
61965 + 62465	S 48 1/2° W 500 ✓	624775
62465 + 62989	S 45° W 524 ✓	629799
62989 + 63119	S 62 1/2° W 30 ✓	631129 <sup>top of gully Indian service</sup>
63119 + 63349	S 66° W 230 ✓	633159 <sup>Jockypine sahrome aspen</sup>
63349 + 63658	S 80 1/2° W 309 ✓	636168
63658 + 63918	S 64° W 260 ✓	639128
63918 + 64434	S 31 1/2° W 516 ✓	644144
64434 + 64755	S 3 1/2° W 321 ✓	647165 <sup>small jockypine</sup>
64755 + 65445	S 3 1/2° W 690 ✓	654155
65445 + 66724	S 2 1/2° W 1279 ✓	667134
66724 + 67114	S 5° W 390 ✓	671124
67114 + 67388	S 33° W 274 ✓	673198 <sup>small jockypine</sup>
67388 + 67615	S 2° E 327 ✓	677125

61965
500
62465
524
62989
130
63119
230
63349
309
63658
260
63918
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64434
321
64755
690
65445
1279
66724
390
67114
274
67388
327
67615



STA	Bear Dist.	Notes
67615+67948	S.11°W. 333 ✓	680+58 oaks some pine " Jack "
67948+68304	S.0° 356 ✓	659+14 to fall N85½W 13/16 of gillies post took indication Sec. cor. 15.14 22.23. found sq. stake about 8' ch. west marked 1/4 #4 Sec. 23. approp
68304+		
68304+68501	S.0° 197 ✓	686+11
68501+68740	S.22°E 239 ✓	688+50 small Jack pine
68740+69331	S.10°E. 591 ✓	694+41 some Murray pine
69331+69595	S.21°W. 264 ✓	697+05
69595+70324	S.27°W. 729 ✓	704+34
70324+70759	S.25½°W. 435 ✓	708+89
70759+71054	S.3½°E 295 ✓	711+64 oaks white pine some Jack pine
71054+		

67615	
333	
67948	
356	
68304	
197	
68501	
239	
68740	
591	
69331	
264	
69595	
729	
70324	
435	
70759	
295	
71054	

66  
8  
528



STA	Bear	Dist	Notes
71054 + 71336	S.1°E.	282 ✓	714+46
71336 + 71532	S.11°W	196 ✓	716+42 Main some norway pine
71532 + 71955	S.43°W.	423 ✓	720+65
71955 + 72204	S.63°W.	249 ✓	stopped set stake 3W to right of nail 723+34
72204+			

71054

282

71336

196

71532

423

71955

249

72204



July 6, 39.

STA	Bear Dist.	Notes
72204 + 72488	S. 25 1/2° W 284 ✓	725+98 Savannah temp. grad. oak, birch
72488 + 72618	S. 11° E. 130 ✓	727+25 to fall N 74° E 14' of yellow post to oak
72618 +	S. 16° E	indication Sec. Co. 22123 - 117' Due W. 27124 yellow post from to edge of lake
72618 + 72956	S. 16° E. 338 ✓	730+06
72956 + 73517	S. 1° E. 561 ✓	736+27
73517 + 73812	S. 4 1/2° E. 295 ✓	oak, birch 739+22
73812 + 74164	S. 31° E. 352 ✓	742+74
74164 + 74509	S. 18° E. 345 ✓	oak, aspen willow 746+19
74509 + 74850	S. 43 1/2° E. 341 ✓	749+00
74850 + 75088	S. 63° E. 238 ✓	751+98
75088 + 75547	S. 80° E. 459 ✓	756+57
75547 + 76084	S. 64° E. 537 ✓	oak 761+94
76084 +		

72204

284

72488

130

72618

338

72956

561

73517

295

73812

352

74164

345

74509

341

74850

238

75088

459

75547

537

76084



STA	Bear	Dist	Notes
76084 + 76374	S48°E	290 ✓	769+84 to fall S70½°W/05'
76374 +	S33°E		of ¼ cor Sec 26. MC Coul battery no marking left on cor. only MS. 10'
76374 + 76603	S33°E	229 ✓	767+13
76603 + 76989	S58°E	386 ✓	770+99
76989 + 77089	S24°E	400 ✓	771+19
77089 + 77218	S.1°W	129 ✓	to end of rd. 773+28
77218			to end of Squaw Pt. rd.

Finished plotting 7/21/39  
~~773+48~~  
~~772+18~~  
~~1+30 difference~~

Rechecked 8/29/39  
 ✓

76084  
 290  
 76374  
 229  
 76603  
 386  
 76989  
 100  
 77089  
 129  
 77218

77218  
 72204  
 5614  
 July 6/39



Pike Bay Loop Rd.

STA	Bear Dist	Notes
0+00	✓	Start/center of rd NO° 28' of Sec 22 3/2 T 144 N R 31 W M.C. G.L.O.
0+174	174 ✓	N 89° E ✓
174+348	348 ✓	S 81° E ✓ 3+48 runway some brush appear
348+563	563 ✓	N 62° E ✓
563+630	630 ✓	N 74° E ✓ 67 top of hill S 20° E 9 1/2' of 1/4 Cor Sec 35 G.L.O.
630+1180	1180 ✓	N 74° E ✓ 550
1180+1351	1351 ✓	N 72° E ✓
1351+1608	1608 ✓	N 89° E ✓ 257
1608+1777	1777 ✓	N 69 1/2° E ✓ 169 largest pine some brush
1777+2022	2022 ✓	N 49° E ✓ 245
2022+2363	2363 ✓	N 56° E ✓ 341
2363+2532	2532 ✓	N 73° E ✓ 169

174  
 174  
 348  
 515  
 563  
 67  
 630  
 550  
 1180  
 1351  
 1351  
 257  
 1608  
 169  
 1777  
 245  
 2022  
 341  
 2363  
 169  
 2532



STA	Bear. Disc.	Notes.
2532+2877	N65°E B45 ✓	28+77
2877+3075	N79°E ✓ 198 ✓	norway + Jack pine 30+75
3075+3359	N83½°E R84 ✓	33+59
3359+4082	N75½°E ✓ 723 ✓	40+82 norway + Jack pine some birch + oak
4082+4334	N69°E ✓ 252 ✓	43+34
4334+4479	N56°E ✓ 145 ✓	44+79
4479+4859	S89°E ✓ 380 ✓	48+59
4859+5059	S76°E ✓ 200 ✓	50+59
5059+5267	N70½°E ✓ 208 ✓	52+67
5267+5993	N34½°E ✓ 726 ✓	59+93
5993+6343	N16½°E ✓ 350 ✓	63+93
6343+6735	N4½°E ✓ 392 ✓	norway + Jack pine 67+35
6735 7017	N21°E ✓ 282 ✓	70+17
7017 +		

2532
<del>345</del>
<del>2877</del>
<del>198</del>
<del>3075</del>
<del>284</del>
<del>3359</del>
<del>723</del>
<del>4082</del>
<del>252</del>
<del>4334</del>
<del>145</del>
<del>4479</del>
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<del>5993</del>
<del>350</del>
<del>6343</del>
<del>392</del>
<del>6735</del>
<del>282</del>
7017



STA	Bear	Dist	Notes
7017 + 7320	N 40° E	✓ 303 ✓	73+20 large N. pine.
7320 + 7758	N 48° E	✓ 438 ✓	77+58
7758 + 7935	N 24° E	✓ 179 ✓	19+37
7935 + 8326	N 15½° E	✓ 391 ✓	83+28
8326 + 8583	N 38° E	✓ 257 ✓	85+85
8583 + 8729	N 48½° E	✓ 146 ✓	oak, maple, N. pine birch 87+31
8729 + 9428	N 34° E	✓ 699 ✓	94+30
9428 + 9772	N 50° E	✓ 344 ✓	97+74
9772 + 10111	N 41° E	✓ 339 ✓	101+13
10111 + 10537	N 54½° E	✓ 426 ✓	105+39
10537 + 10691	N 39° E	✓ 154 ✓	to center of Lake State rd. 106+93
10691 + 10892	N 31° E	✓ 201 ✓	108+99
10892 + 11163	N 3° E	✓ 271 ✓	111+65
11163 +			

7017

~~303~~

7320

~~438~~

7758

~~179~~

7935

~~391~~

8326

~~257~~

8583

~~146~~

8729

~~499~~

9428

~~344~~

9772

~~339~~

10111

~~426~~

10537

~~154~~

10691

~~201~~

10892

~~271~~

11163



STA.	Bear	Dist	
11163 + 11606	N 27° E	443 ✓	11658 birch maple W pine
11606 + 11870	N 34° E	264 ✓	11872
11870 + 12188	N 13° E	318 ✓	N + W pine some birch 12189
12188 + 12522	N 5° W	334 ✓	12529
12522 + 12703	N ½° E	181 ✓	12705
12703 + 12903	N 22° E	200 ✓	12905
12903 + 13266	N 6° W	363 ✓	W pine N pine, birch maple 13268
13266 + 13485	N 6° E	219 ✓	13487
13485 + 13631	N 1° W	146 ✓	13633
13631 + 13731	N 27½° E	100 ✓	stopped get sticks 3 ½ to left 13733
13731 +			

11163
<u>443</u>
11606
<u>264</u>
11870
<u>318</u>
12188
<u>334</u>
12522
<u>181</u>
12703
<u>200</u>
12903
<u>363</u>
13266
<u>219</u>
13485
<u>146</u>
13631

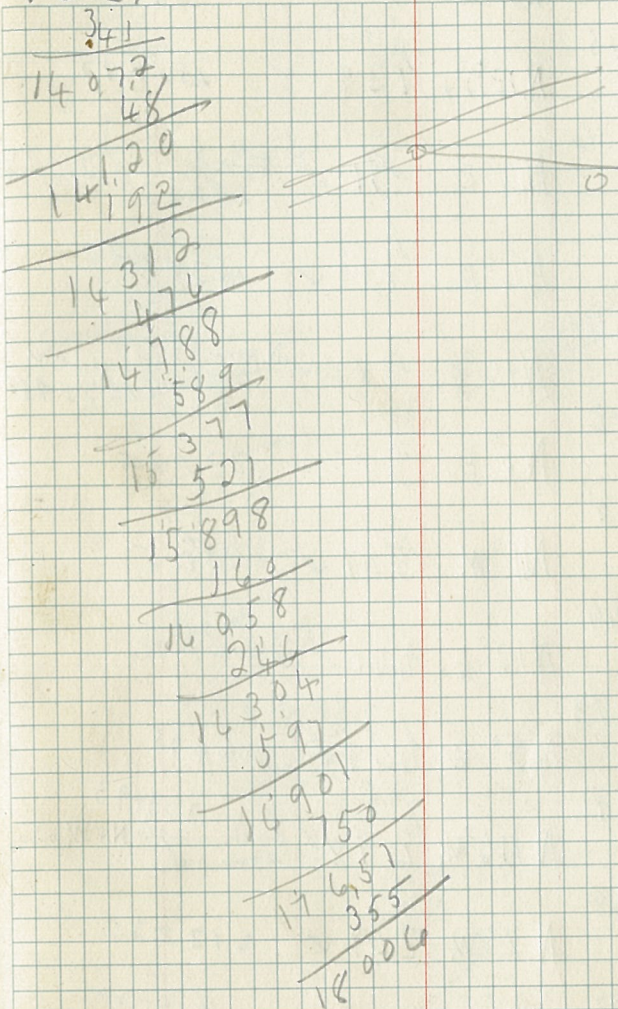
5014
<u>13631</u>
18645



~~July 7 39~~

STA	Bear. Dist	Notes
13731 + 14072	N.50° E. 341 ✓	140 + 74
14072 + 14120	N.71½° E. 148 ✓	to fall 524½° E 10' of yellow rock marked 5.3 inch St 1/4 con Sec. 25. found B.T. bulldozers con. 141 + 22
14120		
14122 + 14312	N.71½° E. 192 ✓	143 + 14
14312 + 14788	N.47° E. 476 ✓	Oblique Resort 147 + 80
14788 + 15377	N.32° E. 589 ✓	153 + 79
15377 + 15899	N.20° E. 521 ✓	159 + 00
15898 + 16058	N.33½° E. 160 ✓	160 + 60
16058 + 16304	N.44° E. 246 ✓	163 + 06 mainly down out + back
16304 + 16901	N.24½° E. 597 ✓	169 + 03
16901 + 17651	N.18° E. 750 ✓	176 + 53
17651 + 18006	N.12½° E. 355 ✓	to culvert L. 22' D 16" 180 + 08
18006 +		

13731





STA	Bear	Dist	Notes
18006+18145	N.12 $\frac{1}{2}$ ° E.	✓ 139 ✓	151+97.
18145+18236	N.4° E.	✓ 191 ✓	to Lake States rd. 182+35
18236+18366	N.4° E.	✓ 130 ✓	183+65
18366+18746	N.14° E.	✓ 380 ✓	N. pine, jack pine some aspen & oak 187+48
18746+19302	N.1° E.	✓ 556 ✓	193+09
19302+19803	N.1° W.	✓ 501 ✓	198° 5
19803+20244	N.18° E.	✓ 441 ✓	202+46
20244+20693	N.3° W.	✓ 449 ✓	206+95
20693+20991	N.11 $\frac{1}{2}$ ° W.	✓ 298 ✓	209+93 birch, maple N. & W. pine some oak
20991+21218	N.8° W.	✓ 227 ✓	212+20
21218+21430	N.22° W.	✓ 212 ✓	214+30 Pike Bay Camp rd.
21430+22015	N.12° W.	✓ 585 ✓	220+17
22015+22225	N.20 $\frac{1}{2}$ ° W.	✓ 210 ✓	222+27 to fall S 75° W out marked ✓

18006  
139

18145

191

18236

130

18366

380

18746

556

19302

501

19803

441

20244

449

20693

298

20991

227

21218

212

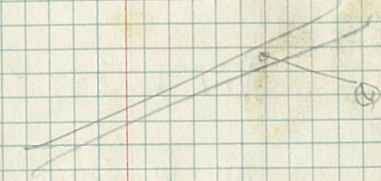
21430

585

22015

210

15  
15.98  
315  
66  
90  
22  
105



15.98 ch E to 1/4 cor. Sec. 18  
measure from center of road  
D or E. 1055 ft. to 1/4 cor.

G.L.O.



STA	Bear Dist	Notes
22225 + 22315	N 20 1/2° W 90 ✓	2237 + 17
22315 + 22631	N. 6° W. 316 ✓	226 + 33
22631 + 22893	N. 48° W. 262 ✓	228 + 95 oak finish N + jack pine some maple
22893 + 23288	N 22° W 389 ✓	232 + 84
23282 + 23622	N. 1° W. 348 ✓	to center of N. track 236 + 24
23622 + 23733	N 15 1/2° E 111 ✓	to center of Soo R.R. track 2374 - 35
23733 + 23796	N. 15 1/2° E 63 ✓	to edge of track #2 2377 + 98
23796 +		

Plotted  
7/21/39  
J.M.  
Rechecked  
8/31/39  
J. Mullins

23796  
13731  

---

10065

~~July 2~~

22225  
90  

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22315  
316  

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22631  
262  

---

22893  
389  

---

23082  
340  

---

23622  
111  

---

23733  
63  

---

23796



rd. 4514

STA.	Bear.	Dist.	Notes.
0+00			Center of 457 rd.
0+370	S.81½° E	370 ✓	oak-maple N pine 3+70
370+1133	S.72½° E	763 ✓	11+33
1133+1374	S.84° E	241 ✓	to fall S 1½° E ¼ of yellow pine marked 13+74
1374+1422	S.86° E	48 ✓	2198 chs N to ¼ sec 14+22 13+74 Sec. 8/9 T145° R30
1422+2132	N.73½° E	710 ✓	21+32
2132+2600	N.83½° E	468 ✓	Jack pine some oak some birch 26+00
2600+3100	N.77° E	500 ✓	31+00
3100+3510	S.88° E	410 ✓	35+10
3510+3916	S.80½° E	406 ✓	39+16
3916+4383	N.82° E	467 ✓	43+83
4383+4871	N.61° E	488 ✓	48+71
4871+5828	N.83° E	957 ✓	58+28
5828+			

370

763

1133

241

1374

48

1422

710

2132

468

2600

500

3100

410

3510

406

13916

467

4383

488

4871

957

5828

0+00

3+70 11+33

0+00 581½ E - 370

3+70

Plotted  
8/11/39







West STA	Pike Bay BEAR DIST	Loop Rd MILES
0+00	S 81 $\frac{1}{2}$ ° W	Start camp rd N 0° 28' 0" Sec. Cor 3/2 T. 144 N. R 31 W Mc. G. L. O.
0+00	S 81 $\frac{1}{2}$ ° W 205	
2+05	N 74° W 151	
3+56	N 72° W	
5+75	N 64° W 219	to post marked 22.51 to W to Sec Cor touch ind along 1/4 Cor. Sec. 35 to post N 21° E, 12'
7+20	N 64° W 145	
8+93	N 72° W 173	
11+12	N 85° W 219	
13+59	N 65 $\frac{1}{2}$ ° W 247	
17+18	N 66 $\frac{1}{2}$ ° W 359	
18+09	N 55° W 91	
24+09	N 51° W 600	
27+44	N 54° W 337	to cen of Sq. G. P. rd.

Checked  
for addition

205  
 151  
 356  
 219  
 575  
 145  
 720  
 173  
 893  
 219  
 1112  
 247  
 1359  
 359  
 1718  
 1291  
 1809  
 600  
 2409  
 337  
 2746



STA	Bear Dist	NOTES
27+46	N.54° W. 285 ✓	noway + Jackpine some black oak
30+31	N.49° W. 210 ✓	
32+41	N.69½° W. 522 ✓	noway + Jackpine some black oak maple
37+63	N.56° W. 307 ✓	
40+70	N.29° W. 195 ✓	
42+65	N.18° W. 286 ✓	
45+51	N.37½° W. 316 ✓	
48+67	N.17° W. 349 ✓	
52+16	N.27° W. 495 ✓	to Co. 705 office rd.
57+11	N.31½° W. 333 ✓	
60+44	N.52½° W. 237 ✓	to cen. of Co. 705 F.S. office rd
62+81	N.47° W. 670 ✓	
69+51		

addition  
checked  
9/21

2746  
~~285~~  
3031  
~~210~~  
3241  
~~522~~  
3763  
~~307~~  
4070  
~~195~~  
4265  
~~286~~  
4551  
~~316~~  
4867  
~~349~~  
5216  
~~495~~  
5711  
~~333~~  
6044  
~~237~~  
6281  
~~670~~  
6951



STA	Bear. Dist.	NOTES.
69+51	N.56°W. 923 ✓	
78+74	N.55°W. 158 ✓	
80+32	N.46°W. 379 ✓	
84+11	N.32½°W. 327 ✓	to center marked 10.37 ch W to center <sup>38127</sup> 38134 Sid. sta.
87+38	N.79°W. 153 ✓	N.61°E 29' to post
88+91	S.87½°W. 508 ✓	to cen. of intersection Riggles mill of hot cut Camp Lake rd.
93+99	N. 0° 459 ✓	Small Jack pine to left Sells. Half acre to right
98+58	N.½°E 752 ✓	to S. end of tamarack swamp
106+10	N.½°E 1358 ✓	
119+68	N.½°E 1558 ✓	to north end of tamarack swamp
135+26	N 0° 526 ✓	to cen of rd going E.
140+52		Set stake 10.6' Due W of Sta

13

69.51
963
5914
158
8072
379
8451
327
8778
153
8931
508
9439
459
8898
752
10650
1358
12098
1558
13566
526
14092

Addition  
checked  
9/26



STA	Bearing	Dist	NOTES
140+52	N1°E	607 ✓	to rd going to U.S. 71 to point marked 50. lha W to Cor. <u>2112</u> <u>58127</u>
146+59	N½°E	1211 ✓	Side Shot. S. 87°E 35' Cor. probably in cen. of rd.
158+70	N. 0°	622 ✓	
164+92	N½°E	982 ✓	
174+74	N½°E	735 ✓	
182+09	N 0°	846 ✓	to cen of rd going E.
190+55	N 0°	656 ✓	Set stake N 80° W 11' mark Sta. 191+75
197+11	N 0°	132 ✓	to road going W. to U.S. 71
198+43	N 0°	923 ✓	edge of bridge
207+66	N. 0°	18' ✓	length of bridge
207+84			width 24

6.50  
33.0

14092
607
14699
1211
15910
622
16532
982
17614
735
18349
846
19195
656
19851
132
19983
923
20906
18
20924

*Adjusted  
checked  
9/25*



STA Bear Dist NOTES

207+84

N<sup>0</sup> 451 ✓

212+35

N. 1/2° E 1137 ✓

223+72

N. 1/2° E 281 ✓  
eccentric going  
E+W.

220+53

Admission  
checked  
9/25

Checked  
9/26/39  
J.M.

20924

451

21375

1137

22512

281

22793



STA

Bear Dist.

Cont Johnson's  
100  
452

0+00

S. 67° E. 352 ✓

Start at Sta 191+95  
on W. Park Bay loop rd

3+52

N. 86½° E. 152 ✓

5+04

N. 86° E. 134 ✓

6+40

S. 74° E. 307 ✓

9+47

S. 46° E. 216 ✓

11+63

S. 59° E. 324 ✓

14+87

S. 46½° E. 234 ✓

17+23

S. 30° E. 245 ✓

19+68

S. 9° E. 107 ✓

20+95

S. 20° W. 400 ✓

24+45

S. 4½° W. 114 ✓

25+89

S. 6° E. 192 ✓

27+81

352

15280

152

504

136

640

307

947

216

1163

324

1487

234

1713

245

1958

107

2065

465

2465

114

2579

192

2771

Top of  
HatchLong N. pine  
Some Jack pineLong Red pine  
Some White pine



STA	Bear Dist	NOTES
27+81	S.14°E 273 ✓	small W. pine some birch
30+5.4	S.28°E 172 ✓	
32+26	S.22½°E 157 ✓	
33+83	S.32½°E 317 ✓	
37+100	S.5°W 86 ✓	
37+86	S.34°W 210 ✓	
39+96	S.16°W 86 ✓	
40+82	S.5½°E 109 ✓	
41+91	S.18½°W 200 ✓	
43+91	S.7°E 342 ✓	
47+33	S.26°E 83 ✓	
48+16	S.38°E 400 ✓	
52+16		

Large Norway pine some birch  
some W. pine

2771

273

3044

172

3216

157

3373

317

3690

86

3776

210

3986

86

4072

109

4181

200

4381

342

4723

83

4806

400

5206



STA	Bear Dist	NOTES
52+16		
	S. 13 $\frac{1}{2}$ ° E 179	Stopped - set stake
53+95		9' to left

Plotted  
9/28/39

94

69+03

~~181~~  
~~70+84~~

~~71+78~~

~~73+52~~

~~74+57~~

~~76+61~~

~~77+47~~

~~78+26~~

~~79+03~~

~~81+53~~

810 316 ft.



W. J. ... 4515

Sta.	Bearing	Dist.	Note
0+00	59°W	✓ 85 xx	Hwy #2 K.R.P. GN radio
0+65	59°W	✓ 44	
1+09	52½W	✓ 171	
2+80	55W	✓ 165	
4+45	54W	✓ 52	So line d. r. trade.
4+97	54W	✓ 27	
5+24	N 87½W	✓ 73	
5+97	N 88W	✓ 157	
7+54	582W	✓ 100	
8+54	N 81W	✓ 129	
9+83	N 86W	✓ 144	
11+27	N 78½W	✓ 100	
12+27		Platted 10"	

~~44~~  
~~10~~  
~~17~~  
~~28~~  
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~~97~~  
~~147~~  
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~~64299~~



# 4515

Sta	Bear	Dist	Notes
12+27	567 1/2 W	✓ 84	
13+11	559 W	✓ 107	See line (first strip)
14+18	583 W	✓ 101	
15+19	588 W	✓ 132	
16+51	579 1/2 W	✓ 269	Balsam - left side
19+20	577 1/2 W	✓ 130	
20+50	N 81 W	✓ 142	
21+92	N 68 W	✓ 140	
23+32	West	✓ 100	
24+32	560 1/2 W	✓ 76	49 ft 567 W + 1/4 cor 513 324
25+08	529 1/2 W	✓ 165	
26+73	518 1/2 W	✓ 178	
28+51			Platted 1911

12+27  
 84  
~~13+11~~  
~~107~~  
~~14+18~~  
~~101~~  
~~15+19~~  
~~132~~  
~~16+51~~  
~~101~~  
~~19+20~~  
~~130~~  
~~20+50~~  
~~142~~  
~~21+92~~  
~~140~~  
~~23+32~~  
~~100~~  
~~24+32~~  
~~76~~  
~~25+08~~  
~~165~~  
~~26+73~~  
~~178~~  
~~28+51~~



# 145  
West Indian pole TT.

Station	Bearing	Distance	Notes
28+51	S 4 1/2 W	✓ 143	Balsam <sup>medium</sup>
29+94	S 16 W	✓ 128	"
31+22	S 11 1/2 E	✓ 69	"
31+91	S 19 E	✓ 112	"
33+03	S 6 E	✓ 192	Balsam, <sup>bees</sup> cedar
34+95	S 1 1/2 E	✓ 190	"
36+85	S 39 W	✓ 155	"
38+40	S 32 1/2 W	✓ 160	"
40+00	S 47 1/2 W	✓ 51	Just pine.
40+51	S 27 W	✓ 225	"
42+76	S 17 1/2 W	✓ 480	"
47+56	S 7° E	✓ 424	"
51+80			

28+51  
143  
29+94  
128  
31+22  
69  
31+91  
112  
33+03  
192  
34+95  
190  
36+85  
155  
38+40  
160  
40+00  
51  
40+51  
225  
42+76  
480  
47+56  
424  
51+80



Station	Bearing	Distance	Notes
51+00	S 4 E ✓	163	
53+43	S 6 E ✓	83	
54+26	S 12 1/2 W ✓	86	
55+12	S 2 E ✓	193	Trail to lake now on left.
57+05	S 13 1/2 E ✓	138	across along fence Jack pine
58+43	S 2 E ✓	218	
60+61	S 19 1/2 W ✓	214	
62+75	S 4 1/2 E ✓	122	
63+97	S 14 E ✓	131	
65+28	S 17 W ✓	102	rd fork Y
66+30	S 11 W ✓	71	
67+01	S 15 E ✓	202	
69+03			

5100  
 163  
 5343  
 5426  
 5512  
 5705  
 5843  
 6061  
 6275  
 6397  
 6528  
 6630  
 6701  
 6903



Station	Tracing	Distance	Notes
69+03	S10 1/2 E	✓ 181 ✓	
70+84	S18 W	✓ 94 ✓	
71+78	S22 1/2 W	✓ 124 ✓	
73+02	S32 W	✓ 152	
74+54	S31 W	✓ 207	Open Hole longer course
76+61	S34 W	✓ 86	to extent 20x16
77+47	S34 W	✓ 79	
78+26	S37 W	✓ 77	
79+03	S28 W	✓ 250	side shot with 16.524/5
81+53	S28 W	5	
81+58			

69+03

~~181~~  
~~70+84~~~~71+78~~~~73+02~~~~74+54~~~~76+61~~~~77+47~~~~78+26~~~~79+03~~~~81+53~~~~81+58~~

94

920 316 ft.



4575 - West Suburbs.

Sta.	Bear	Dist.	Notes
81+78	S. 29½° W	✓ 385	
85+63	S. 30° W	✓ 79	
86+42	S. 15½° W	✓ 281	
89+23	S. 10½° W	✓ 317	
92+40	S. 7° W	✓ 156	
93+96	S. 29½° W	✓ 182	Cedar Swamp
95+78	S. 32° W	✓ 139	
97+17	S. 16° W	✓ 159	
98+75	S. 16½° W	✓ 156	
100+31	S. 31° W	✓ 128	
101+59	S. 0°	✓ 98	
102+57	S. 16° E	✓ 198	
104+55	S. 21° E	✓ 183	
106+38			

milled W.W.  
 some of same  
 + Bolson  
 checked

81+78

385
8643
79
8642
281
8923
317
9240
156
9396
182
9578
39
9717
59
9875
156
10031
128
10159
98
10257
198
10455
183
10638



5 STA Beam Dist. Notes

6	106+38	S. 22 $\frac{1}{2}$ ° E 256 ✓	
7	108+94	S. 56 $\frac{1}{2}$ ° E 176 ✓	to G.L. C.W. 46 S. 25
	110+70	S. 62 $\frac{1}{2}$ ° E 134 ✓	shot to Cor. S. 80° E 56'
	112+04	S. 56° E 355 ✓	Cor. is pulled up and lying on ground
	115+59	S. 67° E 162 ✓	
	117+21	S. 51 $\frac{1}{2}$ ° E 200 ✓	
	119+21	S. 64° E 141 ✓	
	120+62	S. 22° E 156 ✓	small open some birch
	122+18	S. 19° E 70 ✓	
8	122+88	S. 37 $\frac{1}{2}$ ° E 83 ✓	
8	123+71	S. 15 $\frac{1}{2}$ ° E 109 ✓	
	125+10	S. 55 $\frac{1}{2}$ ° E 85 ✓	
	125+96	S. 10° W 80 ✓	

checked

10638

25
10894
11270
11334
11404
11355
11782
11922
12242
12470
12789
83
12571
139
1270
85
12795
80
12675



STA	Bear	Dist	Dist	NOTES
126+76				small aspen and Birch
	S. 10° E	153 ✓		
128+28				
	S. 24° E	90 ✓		
129+18				
	S. 4 1/2° E	67 ✓		
129+85				
	S. 4° W	77 ✓		
130+62				
	S. 13° E	193 ✓		
132+55				
	S. 18° W	148 ✓		
134+03				
	S. 7° E	26 ✓		
134+29				
	S. 3 1/2° E	194 ✓		
136+23				
	S. 15 1/2° E	138 ✓		
137+6				
	S. 76° E	47 ✓		
138+08				
	N. 86 1/2° E	69 ✓		
138+97				
	S. 80° E	172 ✓		
140+49				
	N 71° E	130 ✓	141+79	
141+17				Checked

126+76  
 153  
 13029  
 90  
 13118  
 67  
 13185  
 77  
 13262  
 193  
 13456  
 148  
 13603  
 26  
 13629  
 194  
 13820  
 138  
 13951  
 47  
 13998  
 69  
 14067  
 117  
 14239  
 130  
 14369



5 STA Bear DIST NOTES

6 141-79

N66°E 81 ✓

7 142-60

S. 72½°E 200 ✓ Stopped set stake 3' to right

7 144-60

Plotted  
10/14/39

143.69

81

144.50

~~2.82~~

146.50



Oct. 16, 1939 Pennington rd  
 STA Bear Dist N. o trees  
~~ful~~ Start on Pennington rd  
 at intersection of rd 457  
 N 1/2° W 2204 ✓ to Beltrami County line  
 to point marked Sec. 27-28 side shot 33/34  
 side shot N 86° W 35' 19.30'  
 N 1/2° W. 476 ✓  
 26+80 N 0° 1194 ✓  
 38+74 N 0° 1509 ✓  
 53+83 N 1/2° E 817 ✓  
 62+00 N 1/2° E 1011 ✓  
 72+11 N 2° E 496 ✓  
 79+07 N 2° E 701 ✓  
 84+08 N 1 1/2° E 824 ✓  
 92+32 N 7/4° W. 225 ✓ to point marked 9.16 ch. 11  
 to 1/4 on Sec. 27-28 side shot  
 to point N 5 1/2° E 48'  
 94+52 N 38° W 758 ✓  
 102+15

2204  
 476  
 8680  
 1194  
 3874  
 1509  
 5383  
 817  
 1000  
 6101  
 1011  
 7111  
 496  
 707  
 8306  
 824  
 9138  
 2257  
 9357  
 758  
 115.  
 15



5 STA: Bear. Dist. Notes.

6 102+15 N. 9° W 190 ✓

7 104+05 N. 27½° E 160 ✓

1 105+65 N. 39° E. 1370 ✓

7 119+35 N. 26° E 233 ✓

123+68 N 1° W 195 ✓

123+63 N 23° W 164 ✓

125+27 N 36° W 421 ✓

129+48 N 15½° W 177 ✓

7 131+25 N. 2° W 197 ✓ *to point marked .91 chs W to Sea*

8 133+22 *Cor. 21/22 28/27. 60' from Cor. point to G.L.B. Sideship to point 5.85° W 38'*

8 148+88 N. 2° W 1586 ✓

152+92 N 2° W 404 ✓

160+57 N 1½° W 759 ✓ *to Kingston Dem road.*

10115  
285  

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10305  
140  

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10465  
1340  

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11835  
235  

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12568  
295  

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12263  
121  

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12421  
12848  

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13025  
13202  

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13202  
15148  

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14144  
15192  

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15159  
15951

792  
91  

---

799  
728  

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10720.70  
7407

60.6  
60.6  
98



STA Bear Dist

160+51

N 23° E 169 ✓

162+20

N 48° E 153 ✓

163+73

N 55° E 817 ✓

171+90

N 37° E 266 ✓

174+56

N 28° E 810 ✓

182+66

N 9° E 233 ✓

184+99

N 6½° W 176 ✓

186+95

N 19½° W 284 ✓

to edge of misapprop  
bridge. Width of bridge 18'  
Length of bridge

189+59

N 19½° W 186 ✓

191+43

N 19½° W 50 ✓

191+93

N 22° W 491 ✓

to old Beamington rd

196+84

N 33° W 394 ✓

200+78

N 35½° W 1038 ✓

211+16

18951

169

16125

153

16253

817

17070

17266

17336

18146

18239

18379

1776

18555

18824

1883

19023

19073

19564

19958

10388

20996



STA: Bear Dist Notes

211+16

N. 22° W 374 Eld Benington

214+90

N. 7° W 343 stopped set stake  
to right 12'

218+33

Bearing on road  
N. 5° W

2099.6

374

2137.0

343

2171.3



Road 4613

311+49

S.54°W 306 ✓ 5' stake 8' left of stake

314+55

S.83°W 298 ✓

317+53

S.89°W 1789 ✓

335+AV

S.64°W 597 ✓

341+39

S.85½°W 277 ✓

344+16

N.86½°W 655 ✓ stopped all stakes to

350+71

left 12'

Planted  
10/17/39 ✓

31506

~~298~~

31804

~~1789~~

33593

~~597~~

~~90~~

341277

~~67~~

34467

~~655~~

~~88~~

35188

306

315+06

~~314+55~~

51

<sup>4</sup>35132

31506

3616

314+55

~~298~~

317+53

~~1789~~

335+72

~~597~~

341+39

~~277~~

344+16

~~655~~

350+71

21713

25329



Road 4613  
 312+00  
 554W 306  
 315+06  
 Stopped set  
 stakes  
 8' to left.

DISTANCES FROM CENTER OF ROADWAY FOR  
 CROSS-SECTIONING.  
 Roadway 16 feet wide. Side Slopes 1 on 1½.  
 For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be  $41.9 + (20 - 16) \div 2$  or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.