

INDEX Pg. 1

SAR # 1045 Job # 3002

FIELD BOOK

360

No. 168

TRANSIT NOTES
BELTRAMI Co.

Sta. - 144+20 to 315+07.0

CENTER LINE PROFILE

BLACK DUCK HIGHWAY

BELTRAMI COUNTY

L. R. ANDERSON.

AUG, 23, 1930

STATION 144+20 TO STATION 316+92

STATION	ELEVATION	ELEVATION	MEAN ELEVATION.
144+20	135.7	135.7	135.7 ✓
45	135.3	135.3	135.3 ✓
46	135.4	135.3	135.4 ✓
47	138.1	138.1	138.1 ✓
48	142.6	142.7	142.7 ✓
49	148.2	148.3	148.3 ✓
B.M. COUNTY LINE	144.33	144.29	144.31 ✓
+60	151.2	151.4	151.3 ✓
150	151.4	151.4	151.4 ✓
51	151.8	151.7	151.8 ✓
52	152.3	152.2	152.3 ✓
+50	153.0	153.3	153.2 ✓
53	153.0	152.9	153.0 ✓
+40	153.2	152.8	153.0 ✓
54	153.9	153.8	153.9 ✓
+70	154.8	154.6	154.7 ✓
55	153.5	153.6	153.6 ✓
56	152.3	151.6	152.0 ✓
57	150.5	150.4	150.5 ✓
+50	151.0	149.9	151.0 ✓
58	152.2	150.9	151.6 ✓
59	152.5	152.6	152.6 ✓
160	151.3	151.3	151.3 ✓
1	150.7	150.8	150.8 ✓
2	150.9	151.0	151.0 ✓

KEUFFEL & ESSER CO.

DRAWING MATERIALS
AND
SURVEYING INSTRUMENTS.
NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

"Copyright, 1895, by Keuffel & Esser Co."

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

For Keith's Railroad Curve Labels see end of book.

hwp scale - 3" sq 1" = 2mi
hwp scales - 1.5" sq.

0.026
0.026
0.026
0.026

INDEX ^{Book #} 168

S.F.R. # 1045 - Cass + Beltrami Co - Job No 3002

	pg. 1.	pg.
Transit Notes 144 to 315	2	11
X-sec Notes 144 to 165	12	13
165 to 315	20	39
check B.M. levels	41	47
Slope Stake Notes 145 to 233	49	62
Book # 167 Cass Co. Transit Notes 233 to 252	60	63
Book # 167 Cass Co. Transit Notes 252 to 267	58	59
261 to 283	69	72
283 to 296	66	68
296 to 315	63	65

144+20 - 197+50

197+50 253

253 260

260 315

Light Surf.

No Surf

Clay Cut

No Surf

P Transit Notes Cass Lake - Black Duck Road in National Forest

8/11-30

Prudlow
Lester Chain
Sluder "

163

P.O.T.

R.P. { 4" J.P. 372 SW.
5" Birch 457 NW

151

P.O.T.

R.P. { 3" Pop 436 NW.
3" Oak 345 SW

144+20.0 County Line

Beltrami

33	34
4	3

 T 146
Cass T 145

R 30

R.P. { 8" J.P. 350 SW.
5" Oak 739 NW