

# ALTOONA SUB

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ALL FOOTAGES ARE UNVERIFIED

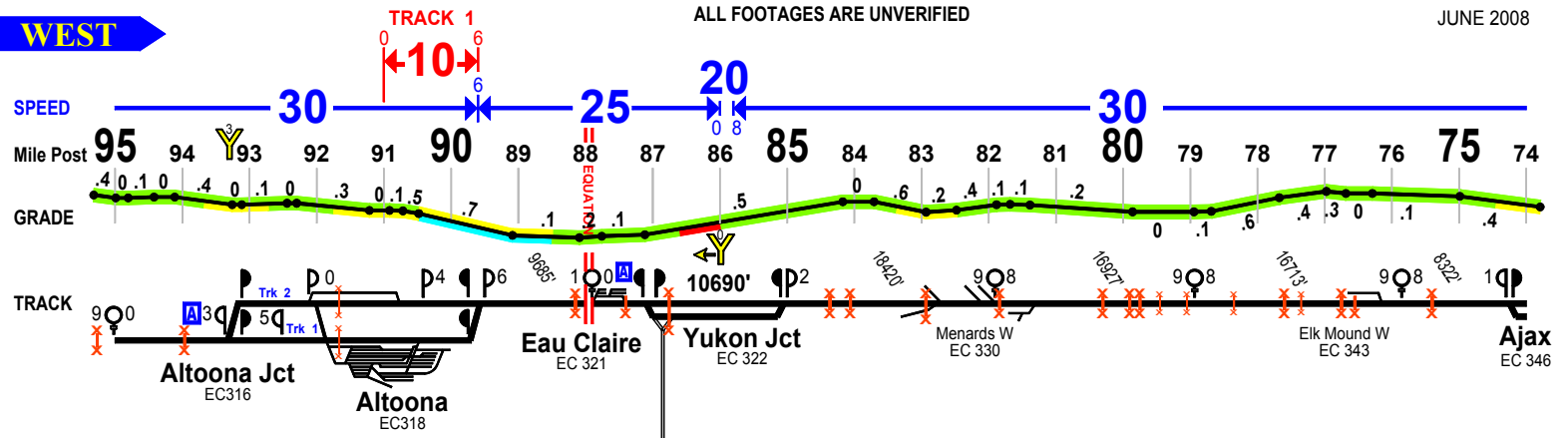
JUNE 2008

FREADMAN'S FOG CHARTS  
REFERENCE ONLY  
For Learning Purposes  
Mistakes Guaranteed

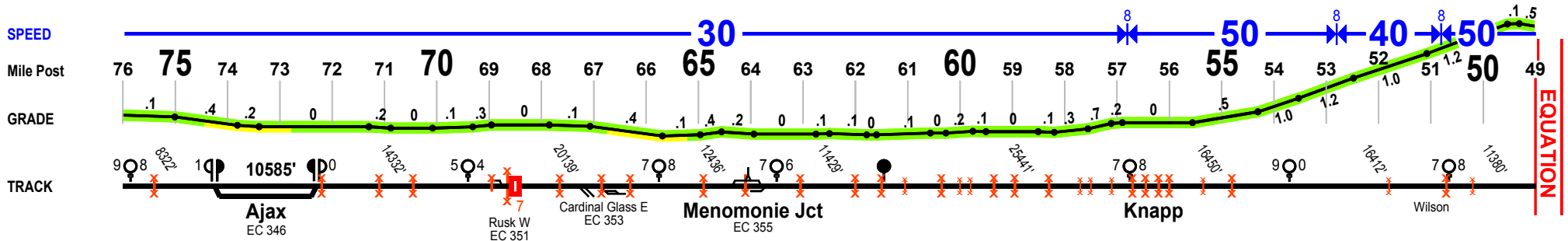
See KEY  
for Instructions  
on How to Use

[www.FOGCHART.com](http://www.FOGCHART.com)

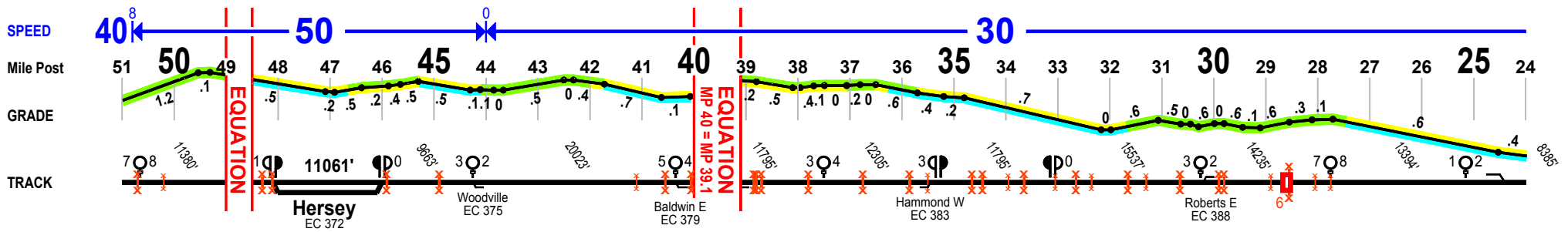
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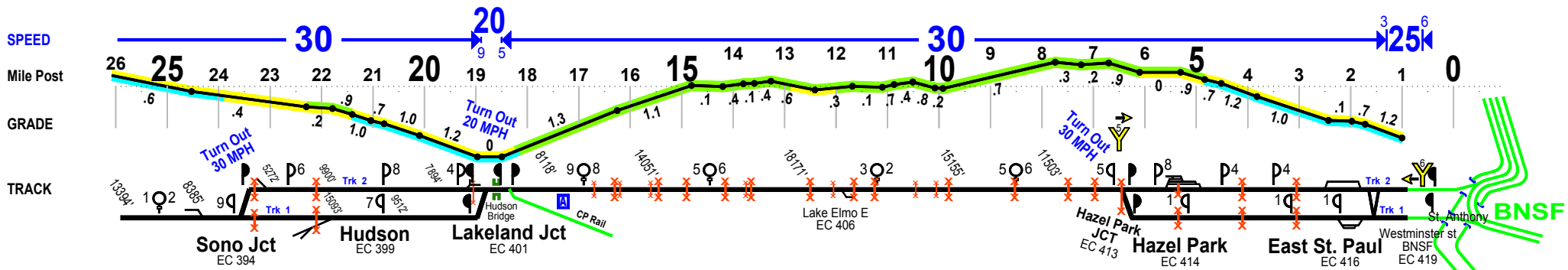
**WEST**



**WEST**



**WEST**



# ALTOONA SUB

**EAST**

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JUNE 2008

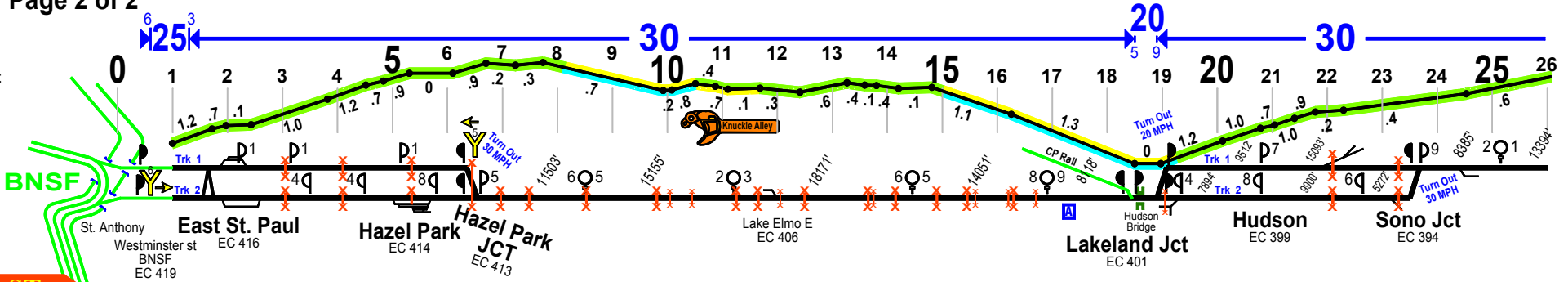
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SPEED

Mile Post

GRADE

TRACK



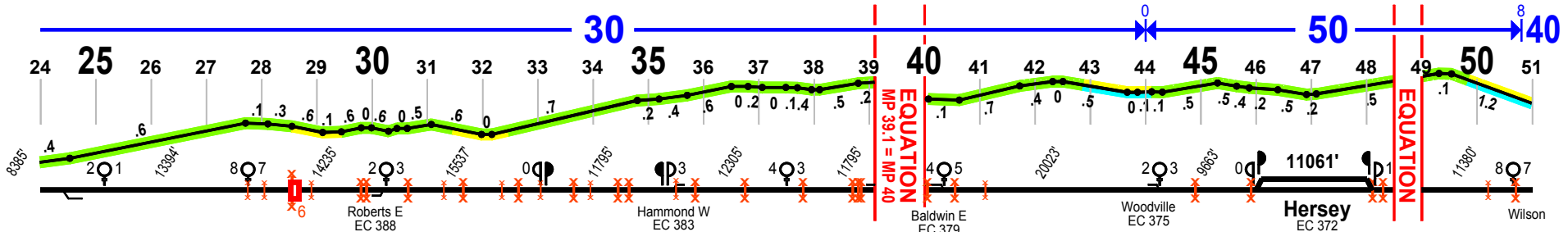
**EAST**

SPEED

Mile Post

GRADE

TRACK



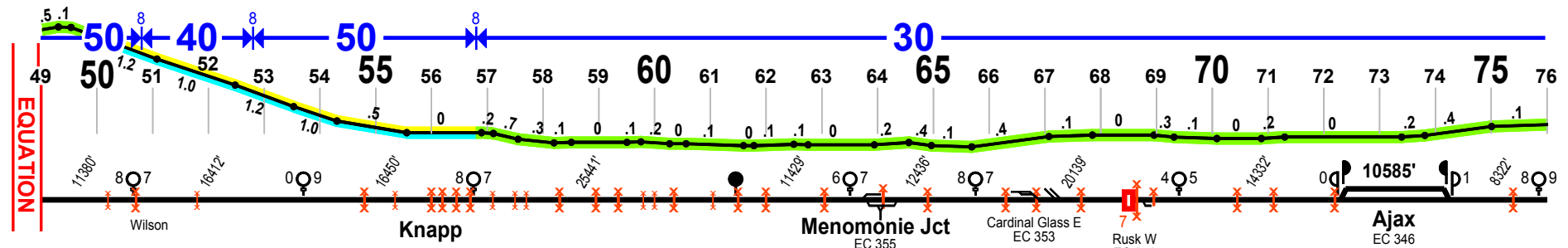
**EAST**

SPEED

Mile Post

GRADE

TRACK



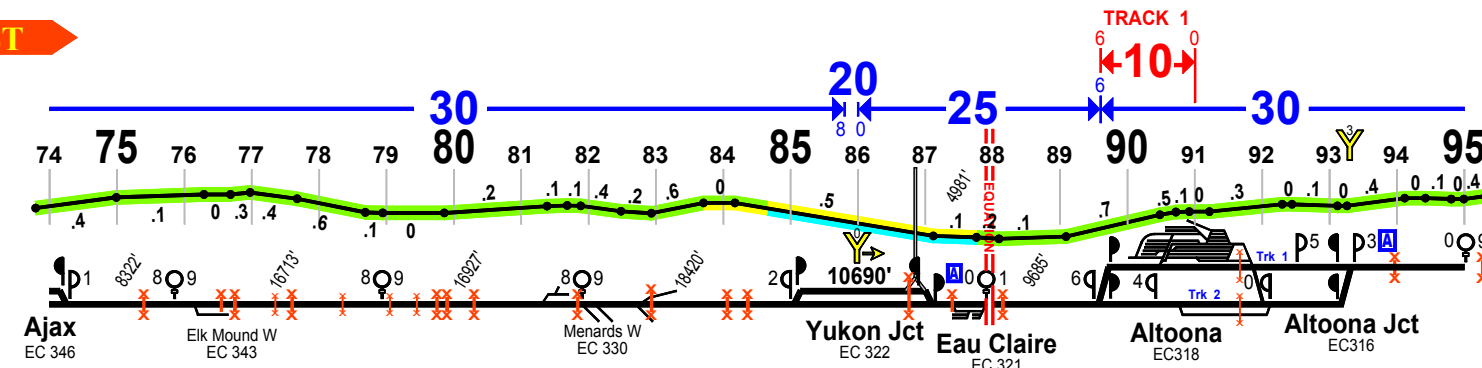
**EAST**

SPEED

Mile Post

GRADE

TRACK



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





*Jerry Kemp Freedman*



With your Help  
by way of feedback  
Reporting changes, corrections,  
and suggestions. Our goal is to  
Produce an accurate real world  
Chart, that will assist road crews  
with territorial knowledge

## EMPLOYEE DRIVEN

### Symbols Used

-  Detector Talker ( ALWAYS TALKS )  
Located at MP xxx.2
-  Detector talk on defect only  
Located at MP xxx.5
-  Private Road Crossing
-  Public Road Crossing
-  AEI Reader
-  Bridge
-  Yard Board  
Located at MP xxx.4
-  Tunnel
-  Knuckle Alley Watch your slack
-  Absolute Signal both directions
-  Directional Absolute Signal
-  Directional Absolute Signal
-  Intermediate Signal for both directions
-  Directional Intermediate Signal
-  Directional Intermediate Signal
-  Absolute Signal & Intermediate Signal
-  Intermediate Signal and Absolute Signal
-  SPEED CHANGE at MP xxx.2
-  Needs Verified

**REFERENCE ONLY**  
**For Learning Purposes**  
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**Special Note**  
The last digit for Intermediate signals designates  
Signals NUMBER, not LOCATION. They are  
for most parts the same, but may be up to 2500 feet different.  
This holds true for Detectors as well.

# KEY to reading Mini Fog Charts

After 5 minutes of studying chart make up.  
Retrieving Territorial Data is fast and easy.









**Safety and Train Handling  
are the two most important  
issues these charts address**

## Train Handling Guide

Following Grade Color Scheme used for suggested General Train Handling

- Throttle Modulation
- Dynamic Braking
- Automatic Braking
- Dynamic & Automatic Braking

NOTE: No Two trains handle the same. This is a General Guide line only, and for a Green Light run. Common sense required.

-  Throttle Modulation, you will be in power.
-  Dynamics will probably be need.
-  Dynamics and Air may be required.
-  Automatic Brake application might be in order.
-  Drifting, or light throttle or maybe light dynamics.
-  You'll be in Dynamic, and might need air also. The grade is noticeable.
-  Shot of air may be better than Dynamics if you missed your lag using throttle modulation.
-  Grade Change point from 0.4 % to a 0.9 % grade

*In a Nut Shell  
If Grade Color changes  
be aware of Speed Issues*



### Direction

Charts are drawn for both Directions.  
Speeds, Footages, and Signal Numbers may differ.  
Grade will definitely be different. Up is now down, and vice versa.  
Good all around idea to use chart that corresponds to direction of travel.

### Be Aware of

- ✓ Signals are for ALL MAINS & Controlled SIDINGS unless so noted.
- ✓ Footage between signals is an about sort of deal, and Not Verified
- ✓ Grade numbers might not be shown when room is unavailable
- ✓ Grade is Averaged at times
- ✓ Changes are made often, only your feedback will keep charts current
- ✓ **This does not replace or supplement your time table; this is only reference material for learning.**

### Hints & Tips

- ✓ Printed double sided, charts fit one sheet per direction.
- ✓ When printing, select NONE for Page Scaling, and select Auto-Rotate and Center.
- ✓ Good for tracking SLOW ORDERS. Laminated, a Dry / Wet Marker works great.
- ✓ Working on Color in Low Visibility, knowing distance to next signal can be handy.
- ✓ Bright colored removable labels are great for notes. I like the round florescent orange ones. They grab your attention. I use for Radio Channel changes, slow orders, x orders etc.
- ✓ Add your own notes with a PDF editor

These are Grade & Speed Charts with a little extra  
Room limitations prevents more information.  
Went with priority order of:

SPEED - GRADE - DETECTORS - SIGNALS - TRACK - XINGS - FOOTAGE

I hope you find charts helpful.  
For the most accurate charts possible,  
I will need to hear from you.  
That's how it works.

www.FOGCHART.com

# AT GRADE Road Xings ( Altoona Sub )

M. P.	DOT #	Road Name	City	M. P.	DOT #	Road Name	City
x 1.1	183781N	BUSH ST.	ST. PAUL	41.09	921289J	PRIVATE	BALDWIN
x 1.57	183783C	JESSIE ST	ST. PAUL	44.92	183873B	260TH ST	WOODVILLE
x 1.58	183784J	BUSH ST	ST. PAUL	45.97	183876W	270TH ST	WOODVILLE
x 1.82	183789T	GREENBRIER ST	ST. PAUL	48.13	183877D	PIONEER RD	WILSON
x 1.89	187001A	EDUCATION DR	MEMONOMIE	48.28	183878K	292ND ST	WILSON
x 1.90	183787E	REANEY AVE	ST. PAUL	50.22	183880L	PRIVATE	WILSON
x 1.91	183788L	MINNEHAHA ST	ST. PAUL	50.67	183881T	WILSON ST	WILSON
x 2.91	183793H	DULUTH ST	ST. PAUL	51.79	183884N	PRIVATE	WILSON
3.05	183794P	ATLANTIC	ST. PAUL	54.81	183887J	CTH Q	KNAPP
4.09	183796D	AMES PL.	ST. PAUL	55.36	183889X	PRIVATE	KNAPP
5.36	183799Y	MCKNIGHT RD	ST. PAUL	55.99	183892F	3RD AVE	KNAPP
6.46	183800R	CENTURY AVE	MAPLEWOOD	56.21	183893M	1ST ST	KNAPP
6.98	183801X	GRANADA AVE	OAKDALE	56.46	183894U	CTH O	KNAPP
7.50	183802E	HADLEY AVE N	OAKDALE	56.71	183895B	770 TH ST	KNAPP
8.51	183804T	IDEAL AVE N	OAKDALE	57.08	183896H	PRIVATE	KNAPP
9.20	183805A	PRIVATE	LAKE ELMO	57.50	183897P	PRIVATE	KNAPP
9.87	183807N	31 ST STREET N	LAKE ELMO	57.71	183898W	PRIVATE	KNAPP
10.45	183808Y	PRIVATE	LAKE ELMO	58.29	183899D	250TH ST	KNAPP
x 10.75	183810W	KELVIN AVE N.	LAKE ELMO	58.94	183900V	271ST ST	KNAPP
11.26	183811D	KLONDIKE AVE	LAKE ELMO	59.34	183901C	CTH K	KNAPP
x 11.60	185170F	4TH AVE N	LAKE ELMO	59.87	183902J	PRIVATE	KNAPP
x 11.83	183812K	LAKE ELMO RD	MINNEAPOLIS	p 60.01	183903R	PRIVATE	KNAPP
x 11.83	183814Y	PRIVATE	LAKE ELMO	60.34	183904X	FORD RD/330TH ST	MEMONOMIE
12.56	183815F	PRIVATE	LAKE ELMO	61.03	183905E	PRIVATE	MEMONOMIE
x 13.57	183816M	MANNING AVE. N.	LAKE ELMO	61.47	183906L	370TH ST	MEMONOMIE
13.67	183817U	NEAL AVE N	LAKE ELMO	62.01	183907T	CTH BB	MEMONOMIE
13.73	183818B	40TH ST N	LAKE ELMO	63.05	183908A	429TH ST	MEMONOMIE
14.16	183819H	PRIVATE	LAKE ELMO	64.10	183910B	WILSON ST	MEMONOMIE
14.83	183820C	NORTHBROOK BLVD	LAKE ELMO	64.90	183911H	CEDAR FALL RD	MEMONOMIE
15.45	183821J	ODEGARD AVE N	LAKE ELMO	66.31	183912P	STOKKE PARKWAY DR	MEMONOMIE
15.84	183822R	OSGOOD AVE N	LAKE ELMO	66.87	187186I	WAGNER STREET	MEMONOMIE
16.26	183823X	PRIVATE	BAYPORT	67.65	183913W	CR B	RUSK
16.28	183824E	PRIVATE	BAYPORT	68.64	183914D	650TH ST	RUSK
16.71	183825L	PRIVATE	BAYPORT	68.92	183915K	670TH ST	RUSK
x 19.05	184346K	PRIVATE	BAYPORT	70.43	183916S	NEY RD/ 730TH ST	RUSK
x 21.39	183831P	PRIVATE UP	BAYPORT	71.12	183917Y	PETRICK RD	RUSK
x 21.86	184387P	GONE	HUDSON	72.23	183918F	PETRICK RD	RUSK
x 22.03	187028J	SHERMAN RD	HUDSON	x 74.01	183919M	GONE	ELK MOUND
22.11	183832W	DORWIN RD	HUDSON	x 74.41	183920G	GONE	ELK MOUND
x 22.48	184388W	PRIVATE	HUDSON	75.41	411776X	US HWY. 12	ELK MOUND
23.29	183833D	CTH U	HUDSON	76.52	183924J	HOLLY AVE	ELK MOUND
x 23.84	183834K	PRIVATE	HUDSON	76.75	183925R	JUNIPER AVE	ELK MOUND
x 26.30	183836Y	PRIVATE	HUDSON	77.60	183926X	PRIVATE	ELK MOUND
x 27.25	183838M	PRIVATE	ROBERTS	p 77.33	183927E	970TH ST	ELK MOUND
27.76	183839U	PRIVATE	ROBERTS	78.36	183928L	PRIVATE	ELK MOUND
28.05	183840N	110TH ST	ROBERTS	79.07	183929T	PRIVATE	ELK MOUND
28.57	183841V	PRIVATE	ROBERTS	p 79.47	183930M	PRIVATE	ELK MOUND
28.91	183842C	PRIVATE	ROBERTS	79.74	183931U	20TH ST	EAU CLAIRE
29.80	183844R	VINE ST	ROBERTS	x 79.80	924376X	20TH STREET	EAU CLAIRE
29.88	183845X	DIVISION ST	ROBERTS	79.91	183932B	10TH AVE	EAU CLAIRE
30.65	183846E	130TH ST	ROBERTS	80.30	183933H	VOLLENDORF LA	EAU CLAIRE
31.30	183847L	PRIVATE	ROBERTS	81.88	183934P	TOWN HALL RD	EAU CLAIRE
31.64	183848T	140TH ST	ROBERTS	x 82.68	183939Y	PRIVATE (IND.)	EAU CLAIRE
32.36	183849A	PRIVATE	ROBERTS	x 82.76	183938S	PRIVATE (IND.)	EAU CLAIRE
32.64	183850U	150TH ST	ROBERTS	x 82.77	183937K	PRIVATE (IND)	EAU CLAIRE
33.05	183851B	PRIVATE	ROBERTS	x 82.78	183936D	PRIVATE (IND).	EAU CLAIRE
33.66	183852H	PRIVATE	ROBERTS	82.91	183935W	KANE RD	EAU CLAIRE
33.97	924105S	CTH TT	ROBERTS	84.04	187089A	CTH T	EAU CLAIRE
34.44	183853P	PRIVATE	ROBERTS	x 84.15	183942G	RAIRIE LA	EAU CLAIRE
34.67	183854W	170TH ST	HAMMOND	x 84.34	411771N	ALPINE ROAD	EAU CLAIRE
35.46	183856K	PRIVATE	HAMMOND	x 85.59	184292G	HARRIS ST	EAU CLAIRE
35.46	183856K	PRIVATE	HAMMOND	x 85.71	184291A	FOLSOM ST	EAU CLAIRE
35.87	183857S	DAVIS ST	HAMMOND	x 85.85	183944V	PRIVATE	EAU CLAIRE
36.77	183858Y	190TH ST	HAMMOND	x 85.95	184290T	SEVENTH STREET	EAU CLAIRE
37.78	183859F	200TH ST	HAMMOND	x 86.37	184288S	1ST ST	EAU CLAIRE
38.68	183861G	12TH AVE	BALDWIN	g 86.74	184285W	SEVENTH STREET	EAU CLAIRE
38.74	183862N	11TH AVE	BALDWIN	x 86.76	184286D	PRIVATE	EAU CLAIRE
38.81	183863V	10TH AVE	BALDWIN	87.40	183948X	PUTNAM ST	EAU CLAIRE
40.03	183866R	6TH AVE	BALDWIN	x 87.93	183949E	GALLOWAY ST	EAU CLAIRE
40.56	183867X	220TH ST	BALDWIN	x 88.12	921335H	GALLOWAY STREET	EAU CLAIRE
				x 88.54	920648U	PRIVATE (STATE)	EAU CLAIRE
				x 89.58	183951F	WILSON DR	ALTOONA

x = GPS & Track Profiles do not show  
 p = Track Profiles do not show  
 g = GPS data does not show