

COMPANY SURGEONS

| *Dr. Abbott Skinner, Chf. Med. Officer. *Dr. Hugo F. Schroeckenstein, Asst. to | St. Paul, Minn. |
|---|---------------------|
| *Dr. Hugo F. Schroeckenstein, Asst. to | Chf. Med. Officer |
| | St. Paul. Minn. |
| *Dr. Darrell E. Westover | St. Paul, Minn. |
| *Dr. John F. Alden | St. Paul. Minn. |
| *Dr. Ernest R. Anderson | Minneapolis, Minn. |
| *Dr. Victor E. Ekblad | Superior, Wis. |
| Dr. Milton Finn | Superior, Wis. |
| *Dr. Victor E. Ekblad Dr. Milton Finn Dr. Fred Johnson | Superior, Wis. |
| Dr. E. G. Stack | Superior, Wis. |
| Dr. Raymond J. Spurzem | Anoka Minn |
| Dr. Leroy J. Larson | Ragley Minn |
| *Dr. Einar W. Johnson | Remidii Minn |
| Dr T P Groschunf | Ramidii Minn |
| Dr. T. P. Groschupf Dr. Wm. T. Nygren | Brohom Minn |
| Dr. W. W. Will | Dowtho Minn |
| Dr. G. E. Larson | Combridge Minn |
| Dr. G. W. Schossow | English Minn |
| Dr. G. w. Schossow | Erskine, Minn. |
| Dr. George A. Sather | Fosston, Minn. |
| Dr. N. F. Musachio | Foley, Minn. |
| Dr. C. E. Norberg Dr. Gordon C. MacRae | Cloquet, Minn. |
| Dr. Gordon C. MacKae | Duluth, Minn. |
| *Dr. C. H. Coombs | Cass Lake, Minn. |
| Dr. R. W. Brockway | Grand Rapids, Minn. |
| *Dr. John B. Evensta | Grand Rapids, Minn. |
| *Dr. B. S. Adams | Hibbing, Minn. |
| Dr. Clarence Jacobson | Hibbing, Minn. |
| Dr. John J. Muller | Hibbing, Minn. |
| Dr. R. L. Christie | Long Prairie, Minn. |
| Dr. Paul J. Keith | Milaca, Minn. |
| Dr. E. G. Hubin | Sandstone, Minn. |
| *Dr. H. W. Goehrs Dr. G. H. Goehrs | St. Cloud, Minn. |
| Dr. G. H. Goehrs | St. Cloud, Minn. |
| *Dr. J. F. DuBois | Sauk Centre. Minn. |
| *Dr. Julian F. DuBois, Jr. | Sauk Centre, Minn. |
| *Dr. John C. Grant | Sauk Centre, Minn. |
| Dr. E. N. Peterson | Virginia, Minn. |
| Dr. J. Arnold Malmstrom | Virginia Minn |
| *Dr. Charles J. Mock | Virginia Minn |
| *Dr. Luther F. Davis | Wadena Minn |
| Dr. O. F. Ringle | Walker Minn |
| | , and , all the |
| *Designates also Examining Surgeon. | |

OPHTHALMIC SURGEONS (Eye Doctors)

| , , | • |
|-------------------------|--------------------|
| Dr. Edward P. Burch | St. Paul, Minn. |
| Dr. Charles E. Stanford | |
| Dr. Malcolm A. McCannel | Minneapolis, Minn. |
| Dr. John E. Power, Jr | Duluth, Minn. |
| Dr. T. J. Doyle | Superior, Wis. |
| Dr. Roger T. Thompson | Superior, Wis. |
| Dr. W. T. Wenner | St. Cloud. Minn. |

- J. CHRISTIANSON, Chief Dispatcher.
- C. W. HAMMER, Chief Dispatcher.
- R. R. McENARY. Trainmaster.
- W. R. RICHTER, Trainmaster.
- W. T. SLOAN, Trainmaster.
- T. G. HOOKER, Trainmaster.

GREAT NORTHERN RAILWAY COMPANY

MESABI DIVISION

TIME **TABLE 79**

EFFECTIVE 12:01 A.M. **CENTRAL TIME**

Sunday, April 29, 1962

E. F. OVIATT, Superintendent.

R. N. WHITMAN, General Manager.

A. W. CAMPBELL, General Superintendent Transportation.

Printed in U.S.A.

| 2 | WE | STW | ARD | | • | | F | IRST SUBDIVISION | | | | | E | CASTW. | ARD |
|-----------------|------------|-----------------|---------------------------------|---------------------------|-------------------------|----------------------|-------------------------|---|-----------|----------------------|---|------------------|-------------------|------------------|---------------------------------------|
| ers | Ca Capa | | SECOND | CLASS | FIRST | CLASS | _ | Time Table No. 79 | Js | | | FIRST | CLASS | SECOND | CLASS |
| Station Numbers | _ | | | 407 | 19 | 23 | ce from | Effective April 29, 1962 | uph Calls | ce from | SIGNS | 24 | 20 | 408 | |
| Station | Sidings | Other Tracks | | Daily | Daily | Daily | Distance from Duluth | STATIONS | Telegraph | Distance St. Paul | | Daily | Daily | Daily | |
| J 139 | | 82 | | | L 4.45Pm | L 7.40Am | | DULUTH | DU | 159.97 | RKDNXB | A 11.50Am | а 7.45 р т | | |
| | | | | | A 4.51Pm | | 2.37 | BRIDGE SWITCH | <u> </u> | 157.60 | | L 1.40Am | | | |
| TRA | INS BE | TWEE | ELEVATO | OR STATIO | N AND DU | JLUTH TEI | RMINA | | NORT | HERN I | PACIFIC, LA | KE SUPER | IOR DIVIS | ION TIME | TABLE |
| | | | | | | | 3.23 | ELEVATOR STATION | | 156.74 | | | | | |
| | | | | | s 5. 0 0 | s 7.55 | 4.22 | SUPERIOR | BY | 155.75 | RKPBXO | s 11.34 | s 7.30 | | |
| J 136 | Yard | 5689 | | | | | 5.41 | ១៩) 25TH ST 2.99 | | 154.56 | PX | | | | |
| J 131 | | 32 | 1 | <u> </u> | <u> </u> | | 8.40 | AH (CENTRAL AVE | 1 | 151.57 | v | | l | | |
| FIRST (| CLASS T | TRAINS | BETWEEN | CENTRAL | AVE. TOW | ER AND DU | LUTHI | TERMINAL DEPOT ARE GOVERNI | ED BY | NORTH | IERN PACIFI | C, LAKE SU | PERIOR D | IVISION TI | ME TABLI |
| | | | | L 9.30Pm | ւ 5.08թա | ь 8.03 A m | 8.67 | S CENTRAL AVE. TOWER | su | 151.30 | RIDNPXJ | a 11.24Am | 4 7 12n | A 12.12Am | |
| J 130 | Yard | 297 | | 9.30pm 9.34 | և 5.00 m 5.11 | L 8.05 | 10.37 | CENTRAL AVE. TOWER | В | 149.60 | RIDNPXJ | 11.24Am | 7.11 | 12.12 A m | |
| J 130 | 1 2010 | 201 | | 7.54 | 2.11 | 0.00 | 10.01 | الم الم | l | 145.00 | IIIDIXI XJ | 11.22 | 7.11 | 12.00 | |
| J 125 | | | | 9.42 | 5.14 | 8.08 | 13,43 | BOYLSTON | | 146.54 | PJ | 11.19 | 7.08 | 12.02Am | |
| J 121 | 96 | 7 | | 9.58 | | f 8.14 | 18.54 | 5.11 DEDHAM | | 141.43 | P | f 11.13 | | 11.54 | |
| J 113 | 127 | 10 | | 10.19 | 5.27 | s 8.21 | 24.71 | FOXBORO | | 135.26 | P | f 11.06 | 6.56 | 11.44 | |
| T 100 | 120 | 3 | | 10.49 | 5.38 | 8.35 | 36.74 | 12.03 ★. | NS | 123.23 | NP | 10.53 | 6.46 | 11.26 | |
| J 103 J 99 | 139 | 4 | | 10.49 | 2.20 | s 8.40 | 40.65 | 3.91 W | 1 | 119.32 | P | f 10.49 | 0.40 | 11.20 | |
| J 96 | | 12 | | 11.00 | | s 8.44 | 43.18 | 2.53 KERRICK | К | 116.79 | DP | f 10.45 | | 11.16 | |
| J 91 | 110 | 14 | | 11.08 | 5.49 | s 8.51 | 48.93 | 5.75 BRUNO | | 111.04 | P | s 10.38 | | 11.08 | |
| J 82 | 135 | 25 | | 11.20 | 5.56 | s 9.01 | 57.31 | 8.38 ASKOV | RD | 102.66 | DP | s 10.29 | 6.30 | 10.56 | |
| | | | | | | | | 5.86 | | | | | | | |
| J 76 | 134 | 226 | | 11.28 | s 6.03 | s 9.11 | 63.17 | SANDSTONE★. | NA | 96.80 | DINPWX | s 10.21 | s 6.24 | 10.46 | |
| J 67 | 146 | 22 | | 11.48 | 6. 14 | s 9.20 9.21 | 71.99 72.36 | HINCKLEY | H HT | 87.98 87.61 | DP DNPI | s 10.11 10.08 | 6. 14 | 10.31 10.30 | |
| J 59 | 146 167 | 16 8 | · · · · · · · · · · · · · · · · | 11.49 12.02 A m | 6.22 | 9.21 s 9.29 | 80.21 | 7.85 | 1 | 79.76 | P | s 9.59 | 6.07 | 10.30 | |
| | 107 | | | 12.03 | 6.23 | 9.30 | 80.54 | 0.33 BROOK PARK JCT. | | 79.43 | PJ | 9,58 | 6.06 | 10.17 | |
| | | | | | | | | 5.47 | | | | | | | |
| GA54 | 16 | 4 | | 12.12 | | s 9.36 | 86.01 | HENRIETTE | | 73.96 | P | s 9.52 | | 10.08 | |
| GA49 | 107 | 28 | | 12.21 | | s 9.46 | 91.45 | GRASSTON | | 68.52 | P | s 9.46 | 5.57 | 9.59 | |
| GA43 | 59 | 32 | | 12.29 | 6.37 | s 9.53 s 9.59 | 96.72 100.15 | BRAHAM 3.43 STANCHFIELD | RA | 63.25 59.82 | DP P | s 9.40 | 5.52 | 9.51 9.46 | |
| GA40 GA38 | | 15 27 | | 12.34 | | s 10.04 | 100.15 | 2.49 GRANDY | | 57.33 | P | s 9.36 s 9.32 | | 9.46 9.40 | · · · · · · · · · · · · · · · · · · · |
| UA30 | | - <u>'</u> - | | | | | | 4.88 | | 01.00 | | | | | |
| GA33 | 104 | 126 | | 12.47 | s 6.46 | s 10.12 | 107.52 | CAMBRIDGE★. | 1 | 52.45 | DNP | s 9.27 | s 5.43 | 9.32 | |
| GA27 | | 65 | | 12.55 | | s 10.21 | 113.17 | 6.02 | IS | 46.80 | DP | s 9.17 | | 9.24 | |
| GA21 | 97 | 45 | | 1.04 | 6.56 | s 10.30 | 119.19 | BETHEL | BE | 40.78 | DP | s 9.10 | 5.34 | 9.14 | |
| GA15 | | 17 | <u> </u> | 1.13 | 7.04 | f 10.40 | 125.34 | 5.69 | | 34.63 | P | f 9.04 | | 9.04 | |
| GA 9 | 82 | 8 | | 1.21 | 7.06 | f 10.48 Af10.56Am | 131.03 | ANDOVER5.96 | CN | . 28.94 | P | f 8.59 | 5.24 | 8.55 | |
| G 13 | | ····• | <u> </u> | A 1.30Am | A /. I I'm | AIIU.JUAM | 100.88 | OUGH OREER JUI | UN | 22.98 | JRDNPIV | Lf 8.54Am | L 5.19Pm | L 8.45Pm | |
| | | | TRAINS | BETWEEN | COON CR | EEK JUNG | TION | AND NORTHTOWN ARE GOVER | NED | BY NO | RTHERN PAG | CIFIC TIM | E TABLE | | |
| | | | TR | AINS BET | WEEN NO | RTHTOWN | AND S | T. PAUL ARE GOVERNED BY T | WIN | CITY T | ERMINALS | TIME TAB | LE | | |
| - | | | ŀ | | A 8 00m | A 11.45Am | 150 07 | 22.98 ST, PAUL | 1 | 1 | | L 8.10Am | L 4.30Pm | 1 | <u> </u> |
| | === | | | 4.0 | 2.26 | 3.16 | 109.87 | Time Over Subdivision | = | | ======================================= | 2.56 | 2.26 | | |
| | | | l | 32.1 | 56.3 | 41.9 | | Average Speed Per Hour | | | | 46.8 | 56.3 | 3.27 37.2 | |
| | | · | | | | | | superior to eastward trains PECIAL INSTRUCTIONS PAGE | | | | | | | |

| W) | EST | WAR | D | | | | SEC | COND SUBDIVISION | | | | | EAS | STWAF | 2D 3 |
|-----------------|-----------|-----------------|---------|---------|-------------------------|-----------------------|-------------------------|---|-----|-----------|------------------------|---------------------------|-------------------------------|--------------|------|
| ers | C Capa | ar acity | | SECOND | CLASS | | | Time Table No. 79 | | 118 | | | SECONI | CLASS | |
| Station Numbers | | | | | | 163 Soo Line | ce fron | Effective April 29, 1962 | | aph Calls | SIGNS | 162 Soo Line | | | |
| Station | Sidings | Other Tracks | | | | Tues., Thur., Sat. | Distance from Duluth | STATIONS | | Telegraph | | Mon., Wed., Fri. | | | |
| J125 | | | | | | | 13.43 | BOYLSTON | | | P | | | | |
| Y251 | 99 | 2 | | | | | 19.21 | S 88 |]. | | P | , | | | |
| Y249 | | | | | | | 23.09 | LINE TOWER | | s | DNPI | | | [| |
| | | | | | | | 26.93 | 「日本」BRIDGE 29 | ABS | | ΙP | | | | |
| Y236 | 85 | 10 | | | | | 33.01 | CARLTON | | A · | DNPI | · · · · · · · · · · · · · | | | |
| Y229 | | 239 | | | | | 38.97 | CARLTON | | KN | DPX | | | | |
| Y213 | 129 | 95 | | | | | 55.45 | CBROOKSTON★. | | . | JPXY | | | | |
| Y205 | 187 | 8 | <i></i> | | | | 63.31 | PAUPORES | | <i>.</i> | P | <i></i> | · · · · · · · · · · · · · · · | | |
| Y195 | 193 | 46 | | | | | 73.27 | FLOODWOOD | | OD | DP | | | | |
| Y189 | 182 | 3 | | | | | 79.37 | ISLAND | ÇŢ. | | P | | | | |
| Y178 | 195 | 19 | | | | | 89.83 | SWAN RIVER | ٥ | WA | JDP | | | | |
| Y168 | 196 | | | | | | 98.78 | 8.95 PHILBIN | | | . P | | | , | |
| Y161 | 142 | 178 | | | | | 106.30 | GÜNN | | GU | JYIPX | | | | |
| Y159 | 92 | 263 | | | | | 109.34 | GRAND RAPIDS | - | GR | DNXP | . <i>.</i> | | | |
| Y157 | 49 | 30 | | | | | 113.04 | SEYTON | ABS | | PX | | | | |
| Y156 | 123 | 9 | | | | | 114.23 | 1.19 COHASSET | | | P | | | | |
| Y145 | 135 | 96 | | | | | 123.60 | DEER RIVER | | RI | DNPX | | | | |
| Y138 | 71 | 15 | | | | | 130.70 | BALL CLUB | | | P | | | | |
| Y125 | 69 | 22 | | | | | 143.60 | BENA | | BA | DP | | | | |
| Y118 | 123 | 4 | | | | | 151.15 | SCHLEY | •• | | P | | | | |
| | İ | | | | | T. 8.43Am | 153.21 | soo JCT | ٥. | | JPV | A 3.30Pm | | | |
| Y106 | Yard | 681 | | | | 9.05 | 162.69 | CASS LAKE | C. | CS | JPV BJRDN KWXPYO | 3.05 | | | |
| Y 96 | 69 | 10 | | | | 9.24 | 172.34 | 9.65 R OSBY | | | P JBDNP | 2.38 | | | |
| Y 90 | 70 | 191 | | | | A 9.35Am | 177.96 | 5.62 BEMIDJI | | вм | JBDNP WXVI | L 2.24Pm | | | |
| Y 84 | 70 | 10 | | | | | 184.11 | 6.15 wilton | | N | DP | | | | |
| | | | | | | | | SOLWAY | | | | | | | Let, |
| Y 78 | | 25 | | | | | 190.24 | 6.20 | | so | DP | | | | |
| Y 72 | 69 | 26 | | | | | 196.44 | 6.70 | | VN | DP | | | | |
| Y 65 | 75 | 131 | | | | | 203.14 | 7.32 EBRO | | BY | DP | | | | |
| Y 58 | 102 | 27 | | | | | 210.46 | 6.02 LENGBY | | | P | | | | |
| Y 52 | 70 | | | | | | 216.48 | 7.02 | - | G | DP | | | | |
| Y 45 | 70 | 118 | | | | | 223.50 | FOSSTON | | FO | DP | | | | |
| Y. 37 | 70 | 35 | | | | | 231.09 | 7,59 McINTOSH | | мо | DP | | | | |
| Y 31 | 72 | 37 | | | | | 237.14 | ERSKINE | | RS | DPI | | | | |
| Y 24 | 71 | 34 | | | | | 243.79 | 6.65 MENTOR 6.74 | | | P | | | | |
| Y 17 | | | | | · · · · · · · · · · · · | | 250.53 | TILDEN JCT | | | PJVR | | | | |
| | TR | AINS | BETWE | EN TILD | EN JUN | CTION A | ND C | ROOKSTON ARE GOVERNE | D i | BY | DAKOTA | DIVISIO | N TIME | TABLE | |
| | | | | | | | 269.60 | CROOKSTON | . | | NBRDKX | | | | |
| | | | | | | .52 28.55 | | Time Over Subdivision Average Speed Per Hour | = = | == | | 1.06 22.5 | | | |
| | | | | | | 20.00 | <u> </u> | Myorage Speed Let Hour | | | | 22.0 | | | |

Westward trains are superior to eastward trains of the same class.

SEE ADDITIONAL SPECIAL INSTRUCTIONS PAGES 5 THROUGH 11.

| 4 V | VES | TW | ARD T | HIR | D SUBDIVISIO | N I | EAST | WARD | WE | STV | VAI | RD I | OURT | 'H : | SUBDIVISIO | N E | AST | WARD |
|-----------------|-------------------|---------------|-------------------------------------|------------------------------|--|-----------------|-----------------|---------------------------------|----------------------|------------|---------------------------------|------------------|------------------|-------------------|--|------------------------|-----------------|------------------------------|
| Station Numbers | Caps eguipis | ar | 523 Daily Ex. Sun. | Distance from Sauk Centre | Time Table No. 79 Effective April 29, 1962 STATIONS | Telegraph Calls | SIGNS | 524 Daily Ex. Sun. | Station Numbers | | Car pacity Lange Lange | e fro | Т | A | Table No. 79 Effective April 29, 1962 | | Telegraph Calls | SIGNS |
| K-18 | 39 | 63 | L 5.15Am | 0.14 18.58 | PARK RAPIDS JCT. 18.44LONG PRAIRIE 7.86 | NE | JPX D | A 11.55Am | YC8 YC7 | 45 | | 0.00 | | | ORMER JCT 0.29 LUCKNOW | | | PX PX |
| K-24 K-32 | | 53 31 | 6.40 7.10 | 26.44 31.82 | BROWERVILLE 5.38 CLARISSA 4.69 | RU | D D | 10.50 | УС6 | 80 | 60 | 1 | | | 0.23 BUHL | | BU | JXV DPX |
| K-44 | 34 | 27 | 7.45 8.15 | 36.51 44.02 | 7.51BERTHA | GD BR | D D | 9.55 9.30 | | . 39 | | | | | 2.53 BERN SIDING | | | PXV |
| K-56 K-70 | 23 | 52 30 | A 9.00 L 9.50 10.10 | 56.19 70.44 | 12.17 WADENA 14.25 SEBEKA | wD sk | DI | L 9.00 A 8.35 8.15 | YD61 YD60 | | | 6.14 | | | r. Clair JCT 0.47 Wilpen JCT 2,58 | | | JPXV JPXV |
| K-79 K-91 | 30 | 27 116 | 10.30 | 79.17 91.17 | 8.73 MENAHGA 12.00 PARK RAPIDS | мн | D D | 7.50 7.20 | YD59 | 1 | d 150 | 9.19 | 151 | | MERT TOWER | ★ · | · · · · · · · · | PIX PX |
| K-103 K-109 | | 29 27 | 11.35 | 103.07 | 11.90 NEVIS6.25 AKELEY | N AY | D | 6.10 5.50 | YB30 YB29 | | 139 | 10.75 9 11.73 | 图 | | 0.85 RUBY JCT 0.98 HIBBING | ABS | | JPXV PX |
| K-119 | | 32 | 12.10pm | 118.81 120.92 | 9.49 WALKER | к | DV U JBRK | 5.20 | | 1 | d 132 | Į. | | 1 | SCRANTON 3.10 Kelly Lake 4.02 Keewatin | ★ : } crrc | KY KW | IX BRKDNP WXYJO DPX |
| Y-106 | Yard | 681 | а 1.00 р т | 140.38 | CASS LAKE | cs | DNWX PYO | L 4.30Am | YD69 | 90 | | 5 20.27 | | | 0.84 MOORE | ···) | | PX |
| WES | 1 | | D FI | FTH | SUBDIVISION | 1 | EAST | WARD | YD76 YD76 YD80 | 31 | 520 | 27.08 | | MAR | NASHWAUK 2.08 KEVIN 4.52 BLE—CALUMET | * · | NK | DPX P JDPXV |
| Station Numbers | Сар | ar acity | CLASS 305 | tance from River | Time Table No. 79 Effective | aph Calls | SIGNS | CLASS 306 | YD86 | 5 | | 35.99 | | H | 4.39 IOLMAN JCT 1.02 ACONITE JCT. | ABS | | JPI JPV |
| i=== | Siding | Other Tracks | Daily Ex. Sun. | Dis Elk | April 29, 1962 STATIONS | Telegraph | | Daily Ex. Sun. | YD88 | 3 | . 300 | 38.84 | | | 1.83 BOVEY | ★. | BY | DPX PXY |
| G-28 T | RAII | NS B | L 7.20Am | 0.00 N. P | . RY. JCT. AND EL | ER K R | JRDN W | A 12.05Pm | Y161 | 142 | 178 | 3 46.84 | | | GUNN |) | GU | JPYIX |
| | | G | OVERNE 7.22Am | | N. P. RY. TIME T | ABL | E | 11.55Am | WE | | | | | 1 | SUBDIVISIO | N E | I | |
| H-20 H-29 | 29 | 116 20 | | 19.16 28.58 | 19.16 PRINCETON 9.42 PEASE | CT EA | DX D | s 11.00 s 10.25 | и Митрег | Capa | ar acity | FIRST 11 | CLASS | ce fron Park J | Time Table No. 79 Effective | SIGN | 1 | CLASS |
| | | | A 9.20Am 2.0 16.28 | 32.56 | Time Over Subdivision Average Speed Per Hour | | JP | 1.55 16.96 | Station | Sidings | Other Tracks | Daily | Daily | Distan Brook | April 29, 1962 STATIONS | | Dail | y Daily |
| WES | · የተឃ | 'AR | D SI | хтн | SUBDIVISION | | EAST | WARD | J48 | | 59 | | | 0.00 11.39 | 7.10 | DP | | |
| Numbers | | Car pacity | | | ime Table No. 79 | | Calls | | J41 J28 | 90 | 31 71 | | | 30.59 31.23 | OGILVIE 12.10 MILACA 0.64 | DP BRD PX PJX | | |
| Station Nu | Sidings | Other | Tracks Distance from | | Effective April 29, 1962 STATIONS | | Telegraph | SIGNS | J14 G63 | 89 | 38 182 | L 7.00p | m L 8.57Am | 44.68 | 13.45 FOLEY 13.47 .EAST ST. CLOUD | DP | X All.3 | I Am A. 6.48Pn |
| Y213 YD11 | 129 145 | i | 95 0.00 5 10.92 | | BROOKSTON; 10.92 BADEN | k . | BN | JPXY P | 75 | Yard —— | 1501 | A 7.08p | A 9.05An | 1 | ST. CLOUD. ★ Time Over Subdivision | NWB XYO | L 1.2 | 3Am L 6.40Pm |
| YA12 | 145 145 144 | | 5 10.92 5 24.99 5 39.88 | | 14.07 FERMOY 14.89 ONEGA | CTC | | P | | | | rains a | 11.5 tre supe | | Average Speed Per Hr to eastward trains Sixth and Seve | of t | 11.8 he sar | ne class |
| YB25 | Yard | 1 13 | 27 50.32 | | KELLY LAKE | k .J | ку | BRKDNP OJWYX | | | | | | | STRUCTIONS PAGE | | | |

ALL SUBDIVISIONS

1. SPEED RESTRICTIONS GENERAL.

The following speed limits apply to trains and engines operating under the conditions outlined, unless rules or conditions require a further reduction.

- 50 MPH-Diesel engines light or with caboose only.
- 35 MPH—Trains or engines on main routes, actuating the points of spring switches;

Trains or engines thru No. 20 turnouts at following locations.

| BoylstonEnd Dbl. T DedhamSiding PauporesSid | |
|---|------|
| DedhamSiding PauporesSid | ina |
| | mg |
| AskovSiding FloodwoodSid | ing |
| Hinckley TowerSiding IslandSid | ing |
| Brook ParkSiding Swan River | Մct. |
| Brook Park Jct. Jct. Swan RiverSid | ing |
| GrasstonSiding PhilbinSid | ing |
| Coon Creek JctJct. BadenSid | ing |
| Coon CreekCrossover FermoySid | ing |
| BrookstonCrossover OnegaSid | |

- 30 MPH—On Main lines, when handling following equipment in trains, not in actual service but on own wheels, derricks, cranes, pile drivers, Jordan spreaders, shovels, wedge plows, scale test car, also ore cars series 80000 thru 94250 and air dump cars X-2000 thru X-2096, X-7000 thru X-7049 when such cars are loaded with ore or gravel.
- 25 MPH—Trains handling logs;
 Trains or engines moving in facing point direction at spring switches without facing point lock;
 Trains or engines thru No. 15 turnouts at following locations:

| Cent. Ave. TowerCrossover | BoylstonJct. |
|---------------------------|------------------|
| SaundersJct. | Bridge 29Gantlet |
| Br. 1.3End Dbl. Trk. | GunnJct. |

- 20 MPH—Trains handling the following equipment on Branch Lines or on 6 degree or sharper curves of Main Lines, scale test car, ore cars series 80000 thru 94250, air dump cars X-2000 thru X2096, X-7000 thru X-7049 when such cars are loaded with ore or gravel.
- 15 MPH—Trains handling the following equipment on Branch Lines or on 6 degree or sharper curves of Main Lines, derricks, cranes, pile drivers, Jordan spreaders, shovels and wedge plows.

Trains or engines moving thru interlockings against the current of traffic on double track;

Trains or engines thru all other turnouts, except equilateral turnouts, and those shown previously in this item.

1(a). Rule 240-W of the Consolidated Code of Operating Rules is modified to permit handling Great Northern cars 60276 thru 60279, 61500 thru 61524 and 61000 thru 61009 in passenger trains at passenger train speeds.

2. MOVEMENT OF ENGINES DEAD IN TRAINS.

Engine 2350 must be handled on rear of freight and mixed trains.

Diesel engines 1 thru 196 or any road switcher unit not equipped with alignment control couplers must be towed as single units. On engines 550 thru 599, coupler alignment control lock blocks must be 'DOWN' when coupled in multiple unit operation.

Following road switcher engines are equipped with alignment control couplers: 200 thru 218; 220 thru 230; 550 thru 599 (lock blocks); 600 thru 699; 700 thru 734; 900 thru 915 and 2000 thru 2035.

Single unit diesel engines, or multiple unit groups (When such groups consist of road freight, road passenger, or engines with alignment control couplers), when towed dead in freight trains, are to be handled not less than five (5) cars nor more than fifteen (15) cars behind the road engine. There should not be more than five (5) units in a group. Additional such units or groups of units must be separated by not less than five (5) cars. When towing diesel engines dead in trains the following speeds must not be exceeded:

- 3. Except at points where it is necessary to classify trains, open cars loaded with poles, piling, lumber, timber, pipe, or other lading which might shift, should be placed as close as possible to the head end of train, but not next to engine, caboose, occupied outfit car or passenger car. Loaded trailer-on-flat cars and multilevel automobile cars are not included in this category. In double track territory, trains handling such cars must use extreme care to avoid slack running in or out when passing or being passed by other trains. In single track territory, trains handling such cars must be at stop when on siding or other track to meet or be passed by other trains, except when have more cars than siding will hold, it is permissible for such trains to pull by each other at restricted speed. Loaded dump cars should not be handled on double track after dark, but if necessary to do so, close watch must be maintained by members of the crew, and if a car dumps its load, train must be stopped at once and protection provided as prescribed by the rules.
- 4. Brakemen with less than one year of experience should not be used as flagmen except in emergency, and then Superintendent will be notified by wire.
- 5. Due to limited overhead clearance at tunnels and structures, employees are warned to keep off top of cars of extreme height and width when handled in trains and yards, except in emergency. In absence of previous advice on such cars, wire proper officer for instructions.
- Placarded loaded tank cars handled in through freight or mixed trains shall not be nearer than 6th car from engine, occupied caboose or passenger car.

Cars placarded "Explosives", "Flammable", "Corrosive Liquids", or "Poison Gas" handled in through freight trains, local and mixed trains, shall not be nearer than 16th car from engine, occupied caboose or passenger car.

When length of train will not permit handling of cars as prescribed above—ANY PLACARDED CAR, loaded with above commodities—shall be placed near middle of train, but not nearer than 2nd car from engine, occupied caboose or passenger car.

When switching such cars in terminal yards they must be separated from engine by at least one non-placarded car.

When placarded cars described above are handled in freight trains made up in "blocks" or classifications, placarded car or cars shall be placed near middle of the "block" or classification, but not nearer than 6th car from engine, occupied caboose or passenger car.

When such placarded cars are placed in trains they must not be placed next to each other, next to refrigerators equipped with gas-burning heaters, stoves or lanterns, or next to loaded flat cars, or gondola cars containing lading higher than ends of car that is liable to shift. Carload express shipments of explosives, sealed and placarded, may be handled on passenger trains; LCL shipments may be made in so-called peddler car with messenger in charge when such car is assigned to the handling of express and baggage exclusively.

Terminal or pick-up points enroute must furnish conductor and engineer Form 250 showing consecutively location in train of all cars placarded "Explosives". At points other than terminals where crews change, notice will be transferred from crew to crew.

Employes will be guided by further instructions governing handling of loaded tank cars, Explosives, Flammables, Corrosive Liquids, and Poison Gas found in I.C.C. Regulations and Consolidated Code Rules 727 and 811.

- 7. Trains departing from stations, either from siding or main track in trailing point movement actuating points of spring switches, a member of crew must observe indication of governing signal in opposite direction after rear end of train has passed through switch to ascertain if switch points return to normal position. If this signal indicates Stop and no immediate train movement or other cause is evident, report the fact to Superintendent from first available point of communication.
 - During and immediately following snow storms or violent wind storms, spring switches must be operated by hand and relined in normal position before heading out through switch in trailing point movement, actuating switch points, to insure switch is in proper operating condition.
- 8. Facing point locks on hand operated switches are indicated by a six-inch yellow stripe painted on target staff. Be positive locking device is restored to normal position after using. A running switch must not be made through this type switch.
- 9. Rule 2 of the Consolidated Code of Operating Rules is modified for Great Northern Railway Company employes to the extent that a watch certificate form is no longer required. Watches of employes will be inspected by Division Officers, Rules Examiners and other designated officers.
 - Rule 3(C) of the Consolidated Code of Operating Rules is amended as follows: Employes governed by time service rules must not wear wrist watches while on duty unless such watches are of an approved type. Approved type wrist watches are: Elgin, B. W. Raymond Model, 13/0 size, 23 jewels and Ball Official Standard wrist watch, 1604B, stainless steel, 13/0 Ligne, 21 jewels.
- 10. Regarding Consolidated Code Rule 103. In addition to complying with the provisions of this rule, members of a crew will be governed by the following: When an engine, with or without cars, is about to move over a public crossing not protected by a watchman, by gates or by crossing signals in operation, a member of the crew must be on the ground at the crossing to provide protection. Exception—in the movement of a through yard transfer or of a light engine being handled only by hostlers, it is not necessary for a member of the crew to be on the ground at the crossing.
- 11. Before picking up cars of peeled pulpwood from industry at any station, conductor must examine lading; if lading is not protected with woven wire to prevent sliding out on sides, or, when wire is not available, with boards and stakes, then car must not be moved from industry. The fact must be promptly reported by wire to the Superintendent.
- 12. Whistle Signals for Routes at Junctions and Interlockings:

| Routes | Whistles |
|-----------------------------|---------------|
| Main Track 2 | short, 1 long |
| Diverging route2 | long |
| Siding4 | short |
| Against current of traffic1 | |

- 13. The Consolidated Code of Operating Rules, Edition of 1959, in addition to the following instructions will govern Great Northern employes while operating on Minnesota Transfer Railway Co. and St. Paul Union Depot Company trackage:
 - (a) All trackage of the Minnesota Transfer Railway Company is defined as a system of tracks within yard limits over which movements must be made at restricted speed and are not authorized by time table or train order, but subject to prescribed signals and rules, or special instructions.

The limits of the St. Paul Union Depot Co. property extend from connection with the Northern Pacific Ry. and Great Northern Ry. tracks at Third Street and connection with the CMStP&P-CB&Q R.R. tracks opposite depot roundhouse on the east, to connection with the CGW Ry. and CMStP&P R.R. tracks at Robert Street on the west.

- (b) The time table of the St. Paul Union Depot Company is for information only. Employes of railroads using the tracks of this Company will be governed by current time table of their respective companies only as to arriving and departing time of trains.
- (c) Where in the rules of the Consolidated Code reference is made to trains, such rules will also apply to yard movements and engines.
- (d) Under Rule 15, the use of torpedoes is prohibited.
- (e) Under Rule 11, burning fusees must not be used except in case of emergency and then only when held in hand and must be extinguished before leaving.

THE FOLLOWING RULES APPLY ONLY ON THE ST. PAUL UNION DEPOT COMPANY:

- (f) There is no superiority of trains within the limits of St. Paul Union Depot Company property.
- (g) Within the limits of the St. Paul Union Depot Company property, trains and engines must move at restricted speed and must not exceed ten (10) miles per hour through crossovers, turnouts and puzzle switches.

The entrance to, and all movements on this property, will be made only on authority of hand signals from switch tenders. No train or engine may foul any track or puzzle switch without authority of hand signals from switch tenders in control of such movements, except that short interior switching movements may be made through crossovers connecting shed tracks when authorized by train director.

Any lead or track may be used for the make-up of trains on authority of train director. The movement of trains should be given preference.

- (h) When indicated by the ringing of the bell, flashing of head-light, hand or light signal that a train or engine is ready to move, the switch tender in charge of the shed track on which the movement is standing will handle as follows: at west end of station the switch tender will control the movement by hand or light signal; at the east end of station the switch tender will inform the train director, who will route the movement by instructions over the public address system. Switch tenders will be governed by these instructions, relaying such instructions by hand or light signal to the next switch tender in the direction of the movement. Each must receive an acknowledgment before signaling the movement. Signals must not be acknowledged or acted upon unless the signal corresponds with instructions from the train director and is definitely understood.
- (i) When backing, the back-up air brake valve on passenger trains must be operated by the conductor, except in the movement of empty equipment it may be operated by a competent trainman or yardman. When practicable, conductors must see that trainmen are stationed so hand or light signals may be used in case of any emergency. When backing a train, the engine brake valve must be in running position. An application of the brakes must be made with back-up air brake valve before starting and it must be known that the brakes are in operative condi-

tion. Movement must not be started until the proper signal is given. A running test must be made with the back-up air brake valve before the train has moved 300 feet. If the running test is not made within 300 feet the engineer must stop the train and ascertain cause. The speed of train must not exceed eight (8) miles per hour; and train must be under such control that it can be stopped short of train or obstruction, and short of bumping post on stub tracks.

(j) Headlights must be dimmed while on shed tracks.

FIRST SUBDIVISION

(Main Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

| Between | Passenger | Freight |
|---------------------------------|-----------|---------|
| Central Ave. Tower and Boylston | . 75 MPH | 50 MPH |
| Boylston and Foxboro | . 60 MPH | 40 MPH |
| Foxboro and Coon Creek Jct | . 79 MPH | 50 MPH |

2. SPEED RESTRICTIONS.

3. TRAIN REGISTER EXCEPTIONS.

All trains register by ticket at Central Ave. Tower and Coon Creek Jct.

Saunders, register is only for trains originating at Allouez and they will register by ticket.

Eastward freight trains will throw off register check at Saunders giving all information called for in train register except arrival and tie up.

4. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).

- (a) At Boylston, Brook Jark Jct., trains for which these points are initial stations may proceed on authority of clearance under which such trains arrive.
- (b) Mesabi Division clearance received by first class trains and passenger extras at Minneapolis, and by other trains at Minneapolis Jct., will clear train at Coon Creek Jct. when train order signal indicates proceed.

5. RESTRICTED CLEARANCES.

Superior, bents under Fifteenth St. viaduct will not clear man on side of car or engine.

 Hinckley, automatic block signal 72.1 governing westward trains, is located on left hand side of main track about 500 feet west of depot.

7. SPEED TEST BOARDS.

Engineers shall test speed of their trains passing following point as compared with Speed Table:

Westward, between MP 76 and MP 77 approximately 4 miles west of Hinckley Tower.

Eastward, between MP 77 and MP 76 approximately 3 miles east of Brook Park.

8. CROSSOVERS ON DOUBLE TRACK.

Facing Point Saunders, east crossover Boylston Trailing Point
Central Ave.
Saunders, at Tower.
Boylston

9. SPRING SWITCHES WITH FACING POINT LOCK.

| Dedham siding Nickerson siding Askov siding | Grasston siding Cambridge siding Bethel siding |
|---|--|
|---|--|

Normal position is for main track.

10. SPRING SWITCHES WITHOUT FACING POINT LOCK.

Superior, east switch of Eastward and Westward incoming tracks.

Normal position is for incoming tracks and all other roundhouse lead switches, when not in use, must be left lined for
roundhouse lead.

Elevator "X", east and west of car unloader on unloading track.

Normal position of switch west of unloader is for unloading track.

Normal position of switch east of unloader is for runaround track.

11. DRAGGING EQUIPMENT DETECTOR INDICATOR.

Eastward trains on Signal 15.6 between Boylston and Deham. Westward trains on Signal 61.1 between Askov and Sandstone.

12. MANUAL INTERLOCKINGS.

13. MANUAL INTERLOCKINGS WITH DUAL CONTROL SWITCHES.

Sandstoneeast and west yard switch

14. AUTOMATIC INTERLOCKINGS.

Superior
73rd St.,MStP&SSM. RR. Crossing

- 15. Arrange to stop No. 19 daily, except Sunday, at Hinckley at a point accessible to mail messenger so mail pouches can be placed in RPO car door.
- 16. Great Northern Transfers going to Great Northern Rices Point Yard will use C&NW track from bridge switch to switch in C&NW main track leading to new connection to Great Northern Rices Point Yard. Authority to use C&NW track will be given by clear signal at Minnesota Draw.

For movement from Great Northern Rices Point Yard to Superior, authority to use C&NW track must be obtained from Minnesota Draw by telephone—from phone located in booth just north of Birch Street between Great Northern and C&NW tracks—before leaving Rices Point Yard.

SECOND SUBDIVISION

(Main Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

| Between | Passenger | Freight |
|--------------------------|-----------|---------------|
| Boylston and Paupores | 50 MPH | 40 MPH |
| Paupores and Tilden Jct. | 59 MPH | 45 MPH |

2. SPEED RESTRICTIONS.

Between Home Signals of Interlockings at:...... 20 MPH Bridge 29, westward.

Bemidji.

Erskine.

Whistle signal must be sounded as prescribed by rule. Crossing must be cut immediately. When this crossing is blocked by coupling up train, trainmen must remain at the crossing to prevent pedestrians from crawling through the cars.

TRAIN REGISTER EXCEPTIONS.

Tilden Jct. is register station only for trains directed by train order to register there.

4. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).

At Boylston, Brookston and Gunn, trains for which these points are initial stations may proceed on authority of clearance under which such trains arrive.

All trains must obtain clearance Form A at Cass Lake.

Mesabi Division clearance received at Crookston will clear train at Tilden Jct. Rule 83(B) does not apply at Tilden Jct.

At Soo Jct., Soo Line Trains may proceed to Cass Lake without obtaining clearance Form A.

5. SPEED TEST BOARDS.

Engineers shall test speed of their trains passing following point as compared with Speed Table:

Westward, between MP 86 and MP 87 approximately 4 1/2 miles west of Island.

Eastward, between MP 87 and MP 86 approximately 2 miles east of Wawina.

Eastward, between MP 86 and MP 87 approximately 2 miles east of Wilton.

Westward, between MP 87 and MP 86 approximately 3 miles west of Bemidji.

6. Cloquet, derails located near east end storage tracks Nos. 1 and 2 are not provided with derail signs.

Cloquet, when setting out cars on either end of No. 1 track be sure cars are shoved down far enough to clear N. P. Ry. crossovers.

Cloquet, cars left on G.N. tracks must not be closer than 60 ft. each way from 10th Street crossing east of depot.

7. Grand Rapids, when setting out cars, eastward freight trains will stop and leave train west of west switch; westward trains will stop east of the first public crossing.

Grand Rapids, at Hawkinson Addition Crossing MP 110, trains stopped to make set-outs at Grand Rapids must clear this crossing.

8. Lengby, Till Avenue Crossing, just west of depot:

McIntosh, Cleveland Avenue Crossing, 200 ft. east of depot: Industry tracks do not include automatic road crossing protection and all train and engine movements over these crossings on industry tracks must be flagged by trainman on the ground. International Refinery, Alford, while switching, do not handle cars over drip pans with brakes set as sparks from brakes create a fire hazard.

Cabooses with fires in stoves not permitted on any of the plant tracks and crews working in the vicinity will refrain from smoking.

Tail hose located in telephone booth must be used on end of cuts shoved to Old No. 1 and Old No. 2 tracks with air coupled into it so that trainmen taking position on rear car of cut being shoved can control the movement over crossing immediately ahead of the unloading rack, as well as being able to stop cut of cars short of end of these two spur tracks.

10. CROSSOVERS ON DOUBLE TRACK.

Facing Point State Line, west crossover Carlton, east crossover Cloquet, west crossover Brookston, east crossover Cloquet, east crossover Cloquet, east crossover Cloquet, east crossover

11. SPRING SWITCHES WITH FACING POINT LOCK.

Cass Lake, east yard switch.

Normal position is for main track.

12. SPRING SWITCHES WITHOUT FACING POINT LOCK.

Cass Lake, west crossover switch to roundhouse lead incoming roundhouse track outgoing roundhouse track

Normal position is for tracks named.

13. DRAGGING EQUIPMENT DETECTOR INDICATOR.

Eastward trains, on signal 30.2 approximately one mile west of Bridge 29.

Westward trains on Signal 28.1 approximately 1 mile east of Bridge 29.

14. MANUAL INTERLOCKINGS.

| State Li | ne TowerN. | P. | Ry. | crossing |
|----------|------------|----|-----|----------|
| Carlton | N. | P. | Ry. | crossing |
| Erskine | MStP&SS | Μ. | RR. | crossing |

15. MANUAL INTERLOCKINGS WITH DUAL CONTROL SWITCHES.

Gunnjunction with 4th Subdivision

16. AUTOMATIC INTERLOCKINGS.

| BemidjiN. P. Ry | crossing |
|-----------------|----------|
| Bridge 29 | gantlet |

Bridge 29:

Release for westward route on westward track is located in release box at eastward home signal.

Release for eastward route on eastward track is located in release box at westward home signal.

Cranks for hand operation of smashboards are attached by chains to the mechanism.

17. CTC-SOO JCT. TO CASS LAKE.

Telephones for communication with the control operator are located at the east end of CTC section and at the spring switch, east end of Cass Lake Yard, 1000 feet west of west end of CTC section. Westward Soo Line trains will call the operator at Cass Lake on phone for authority to enter G.N. main line. The following will govern in case of failure of communications: Soo Line crew will unlock switch and attempt to line for their movement. If switch will line and signal clears, this will be their authority to leave Soo Jct., and proceed to Cass Lake.

THIRD SUBDIVISION

(Park Rapids Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Passenger Freight

2. SPEED RESTRICTIONS.

Between Home Signals of Interlockings at: 20 MPH Park Rapids Jct. Wadena.

- CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B). Mesabi Division clearance received at Sauk Centre will clear train at Park Rapids Jct.
- Cass Lake, normal position south wve switch is for east leg of

5. AUTOMATIC INTERLOCKINGS.

6. Unless otherwise instructed, protection against following trains, as required by Consolidated Code Rule 99, is not necessary on Third Subdivision, between Cass Lake and Park Rapids Jct. Form Z train order is not required on this subdivision. If it becomes necessary to operate a following train when there is still a train on this subdivision, the train ahead must be notified to protect against the following train. If this is not practical, the following train must be notified to protect against the train

FOURTH SUBDIVISION

(Gunn-Dormer Jct. Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Passenger Between Freight Emmert and Dormer Jct...... 35 MPH 30 MPH

SPEED RESTRICTIONS.

Between Home Signals of Interlocking at: 20 MPH Hill Annex Spur. Hibbing. Majorca Mine Spur. North Mitchell. Emmert Tower.

- 3. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B). At Kelly Lake, trains arriving from Sixth Subdivision (Casco Line) destined to Fourth Subdivision (Gunn Line) may proceed to Keewatin on authority of clearance under which such trains
- 4. Between Calumet and Oil Spur, located 1.47 miles west of Bovey, main track will be used jointly by G.N. and DM&IR. Rys. and authority for train movements is controlled by G.N. Ry. and G.N. rules and Special Instructions will govern.
- 5. St. Paul Mine Spur, Third Avenue, Keewatin, trains will not exceed a speed of 12 MPH through the approach circuits of the signal system covering crossing signals for Highway No. 169.
- Harrison Mine Spur, Naswauk, trains will not exceed a speed of 12 MPH northbound into the mine or 6 MPH southbound out of the mine through the approach circuits of the signal system covering crossing signals for Highway No. 169 crossing.
- Telephone in service at Buckeye, Canisteo and Danube Mines switch. Crews coming from Buckeye, Canisteo and Danube Mines will communicate with the dispatcher and know that way is clear on the main track before proceeding with train down the descending grade on both legs of the wye.
- Block signal located at Mesabi Chief Mine spur normally displays indication, Rule 240(B) and governs movements from spur to main track; after lining switch, if no conflicting movement is evident on main track, movement may be made in accordance with signal indication after complying with Rule 513.
- Trains and engines will run with the current of traffic between Kelly Lake and Emmert Tower without train orders or clearance, and must keep to the left unless otherwise provided.

- 10. Between Emmert Tower and DM&IR. Jct. east of Scranton. G. N. double track will be used jointly by DM&IR. trains. G. N. rules and special instructions will govern.
- 11. Between Wilpen Jct. and St. Clair Jct., and between Buhl and Dormer Jct., DM&IR trains will use G.N. main track jointly and be governed by G.N. rules and special instructions. Normal position of switches at Wilpen Jct., St. Clair Jct., and Dormer Jct., is for G.N. 4th Subdivision.
- Between St. Clair Jct. and Chisholm Jct., main track will be used jointly by G.N. and DM&IR. Rys. and authority for train movements is controlled by DM&IR. Ry. and DM&IR. rules will govern.
- 13. Train and engine movements from main line on new Hull Crusher Spur over Kelly Lake road crossing must be protected by a member of the crew due to restricted view approaching this crossing.
- 14. Susquehanna Shaft, necessary to shove all empties under the head frame, which will not clear a man on top or side of ore car. Crews must stop before shoving under the head frame and brakemen will walk by the shaft to a point where they can give signals in shoving empties onto the tail tracks. When placing empties for shaft loading, fill the north tail track through the crossover first, as an engine will not go over this crossover. Then fill the south tail track. When placing empties for screener loading, fill the south tail track first, then the north tail track as an engine cannot move through the
- 15. Boeing crude ore unloading pocket, located five (5) feet east of No. 1 tail track switch, Boeing Mine, open between rails and on north side of track. Use caution when working in vicinity of this pocket and walk on south side of track.

crossover into the south screener tail track.

- 16. Signal protection in service at Danube Mine Spur switch and crossover from Balkan Mining Company track to Danube Mine Tracks. Movements over this crossing will be governed by dwarf color-light signals, displaying indication Figure 6 of Rule 240-A or Figure 4 of Rule 240-H except eastward color-light signal for Balkan Mining Company will display Figure 3 of Rule 240-A or Figure 2 of Rule 240-H, all of the Consolidated Code. Normal position of switches is for Balkan Mining Company and for G. N. Ry. track from Danube Mine to washing plant. Signals will clear automatically for Balkan Mining Company and for G. N. Ry. from Danube Mine to washing plant. To obtain signal to crossover the Balkan Mining Company track, G. N. Ry. trainmen should make sure there is no approaching conflicting movement, then line all three switches in the route to clear signal before proceeding. After crossover movement has been made, all three switches must be restored to normal position for Balkan Mining Company track and G. N. Ry. washing plant track.
- 17. Normal position of Gunn Line Switch at East leg of wye, Kelly Lake, will be for Fourth Subdivision.

18. CROSSOVERS ON DOUBLE TRACK.

Facing Point Hull Crusher Ruby Jct.

Trailing Point Mahoning Agnew Scranton Hibbing, east crossover Hibbing, west crossover North Mitchell

19. SPRING SWITCHES WITH FACING POINT LOCK.

Nashwauk, west north storage track switch. west south storage track switch. Calumet, west new yard switch.

Canisteo, west new yard switch. Normal position is for main track.

20. SPRING SWITCHES WITHOUT FACING POINT LOCK.

Kelly Lake, west switch transfer cinder pit track, Normal position is for mallet cinder pit track.

roundhouse wye tracks.

Normal position east switch is for mallet cinder pit track, south switch is for east leg of wye. west switch is for west leg of wye.

Kelly Lake, west wye switch, Normal position is for 4th subdivision.

21. SEMI-AUTOMATIC INTERLOCKINGS.

Complete instructions for operation of electric lock and gates at semi-automatic interlocking are located at "Release" boxes.

22. AT VIRGINIA.

G. N. Ry. trains to and from Virginia operate via D. M. & I. R. Ry. tracks between Emmert and Virginia.

SPEED RESTRICTIONS.

(a) Between Home Signals of Interlockings at:................ 20 MPH
D. W. & P., Virmount Tower.
D. W. & P., Crescent Ave.

(b) Highway No. 53 crossing, 6th Avenue West, leading to Columbia Mine.

Trains must not exceed a speed of 10 MPH through the approach circuits of this crossing.

(c) Trains and engines must stop before passing over crossing U. S. Highway No. 53 leading to depot, and a member of crew on ground at the crossing will protect movement.

AUTOMATIC INTERLOCKINGS.

FIFTH SUBDIVISION

(Princeton Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Between Freight Elk River and Milaca Jct..... 20 MPH

2. SPEED RESTRICTIONS.

Between Home Signals of Interlocking at Elk River.... 20 MPH

- 3. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B). At Milaca Jct., trains for which this point is initial station may proceed on authority of clearance under which such trains arrive.
- SEMI-AUTOMATIC INTERLOCKINGS.
- 5. Unless otherwise instructed, protection against following trains, as required by Consolidated Code Rule 99, is not necessary on Fifth Subdivision, between N.P. Ry. Jct. and Milaca Jct. Form Z train order is not required on this subdivision. If it becomes necessary to operate a following train when there is still a train on this subdivision, the train ahead must be notified to protect against the following train. If this is not practical, the following train must be notified to protect against the train ahead.

SIXTH SUBDIVISION

(Casco Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

2. DRAGGING EQUIPMENT DETECTOR INDICATOR.

Eastward Trains, on iron mast approximately 6400 feet east of Signal 62.2 about 2.5 miles west of Brookston.

SEVENTH SUBDIVISION

(Milaca Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

2. SPEED RESTRICTIONS.

| Bridge 46.3, Mora | 20 MPH |
|---|---------|
| Bridge 54.2, Quamba | |
| Between Home Signals of Interlockings at: | 20 MPH |
| Brook Park Jct. | |

East St. Cloud.

3. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).

- (a) At Brook Park Jct., trains for which this point is initial station may proceed on authority of clearance under which such trains arrive.
- (b) Trains originating at East St. Cloud may proceed without à clearance.
- 4. At St. Cloud, eastward freight trains must know before leaving there that route is clear at N. P. Ry. crossing, East St. Cloud.
- 5. MANUAL INTERLOCKINGS.

6. Unless otherwise instructed, protection against following trains, as required by Consolidated Code Rule 99, is not necessary on Seventh Subdivision, between Brook Park Jct. and East St. Cloud. Form Z train order is not required on this subdivision. If it becomes necessary to operate a following train when there is still a train on this subdivision, the train ahead must be notified to protect against the following train. If this is not practical, the following train must be notified to protect against the train ahead.

SPEED TABLE

| Time Per Mil Min. Sec | | Time Min. | Per Mile Sec. | Miles Per Hour | |
|---|----------------------|--------------|------------------|-------------------|--|
| Min. Sec 46 47 48 49 50 51 52 53 54 556 57 58 59 0 1 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 | | | | | |
| 1 10 1 12 1 14 1 16 | 50.0 48.6 47.4 | 8 9 10 | | 7.5 6.7 6.0 | |

| Business Tracks not | shown as stations on Time | Table | | Mine Spurs | | | |
|--|---|--|--|--|---|---|--|
| Name | Location | Car Ca- pacity | Switch Opens | Name | Location | Switch Opens | |
| First Subdivision North Central Public Service Spur Rural Coop. Power Ass'n Spur Second Subdivision International Refineries Lindsay Pit Flint Pit Mirbat Wawina Cohasset Mill & Lumber Co. Minn. Power and Light Spur Chippewa Wood Processing Spur Webster Lumber Co. Farris Airport Spur Minnesota Pipeline Co. Solar Gas Dugdale Third Subdivision Little Sauk Round Prairie Peters Meat Products Spur Redwood Rendering Co. Midland Co-op. Spur Hewitt Leaf River Land O'Lakes Creamery Spur Dorset Leech Lake Wilkinson Fourth Subdivision Coal Spur Service Station Inc. Spur Oil Track Douglas Shop Spur Wacootah Storage Track Keewatin Saw Mill Spur | Location 2.25 miles east of Coon Creek Jct | Car Ca- pacity 7 6 45 70 120 12 11 9 106 16 17 15 19 50 56 12 12 10 35 6 22 24 19 11 10 8 34 18 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10 | Switch Opens WE EEEEEE WEWW WW WW WW WW EE&WW | Stevenson, Lamberton, Mahoning Concentrate, Warren. Mahoning, N. Uno, Mahoning Grp IV, So. Agnew, Carmi. Hull Crusher. Morton. Scranton, Alworth. Susquehanna, Weggum, Boeing. Webb, Albany, Longyear. Dunwoody. Chataco. Elbern. Judson, Michael. Grant North Shiras. Margaret. Wanless. Kinney, Atkins, Wade. Elliott Siding. Hanna B, Pilot. Enterprise. Columbia. Bennett-Russell, Carlz. St. Paul. Chieftan Mesabi Chief Washer, Aromac, Perry, Mississippi. O'Brien. Hawkins Fines. York, Galbraith. Hawkins (MacKilican). Harrison, Harrison Fines. Patrick A, Patrick C. Hill Annex Creta. Hill Annex Washer. Hill Annex Washer. Hill Annex Fines, Hill Trumbull Washer. Hill Annex Fines, Hill Trumbull Washer. Hill Spur Rhude Media Spur. Arcturas. Holman Hunner. Canisteo, Buckeye, Danube. West Hill Jessie. Greenway. | Location 0.53 miles east of Kelly Lake 0.72 miles east of Kelly Lake 1.80 miles east of Kelly Lake 1.98 miles east of Kelly Lake 2.42 miles west of North Mitchell 0.03 miles west of North Mitchell 0.81 miles east of Emmert 0.74 miles west of Emmert 0.74 miles west of Buhl 1.35 miles west of Buhl 1.22 miles west of Buhl 0.78 miles east of Buhl 0.96 miles east of Buhl 0.18 miles east of Buhl 0.18 miles east of Dormer Jct 1.18 miles east of Dormer Jct 2.64 miles west of Virginia 0.47 miles west of Virginia 0.47 miles west of Virginia 0.47 miles west of Kelly Lake 0.25 miles east of Moore 1.17 miles west of Moore 1.57 miles east of Nashwauk 0.37 miles east of Nashwauk 0.38 miles west of Nashwauk 0.19 miles east of Nashwauk 0.10 miles east of Calumet 0.60 miles east of Calumet 0.60 miles east of Holman Jct 0.25 miles west of Calumet 0.25 miles east of Calumet 0.25 miles west of Calumet 0.20 miles west of Canisteo 0.21 miles west of Canisteo 0.22 miles west of Canisteo 0.23 miles west of Canisteo 0.24 miles west of Canisteo 0.25 miles west of Canisteo | Opens W WWEWEEEWWWWWWEEEEE&EEWEEW WWEWEWEEEE&EEWWEE E EEEWWEEEWW | |
| Mid-Range Builders Supply Minn. Power & Light Spur Ryan and Gillis Spur Marble Spur Oil Spur Fifth Subdivision | 0.15 miles east of Nashwauk 1.09 miles east of Nashwauk 0.93 miles west of Kevin 0.88 miles west of Calumet 1.19 miles east of Canisteo | 7 15 29 5 35 | W E W W W | Tioga | 0.24 miles east of Seyton | W | |
| Zimmerman Long's Siding. Sixth Subdivision Arlberg Casco | 9.50 miles west of N.P. Ry. Jct. 4.05 miles west of Princeton 5.42 miles west of Brookston 5.84 miles west of Fermoy | 15 4 17 36 | E & W | · | | | |
| Seventh Subdivision Quamba Kanabec Hdwe. Co. Spur Bock R. E. A. Oil Spur Foreston Oaks Ronneby Parent | 5.06 miles west of Brook Park Jct | 8 5 12 3 29 26 | E W W W E & W E & W E & W | | | | |

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