

**BURLINGTON  
NORTHERN  
INC.**

**LAKE  
DIVISION**

---

**Special  
Instructions  
No. 1**

**IN EFFECT AT 12:01 A.M.  
Central Standard Time**

**Tuesday, March 3, 1970**

---

**Asst. Vice President  
Transportation  
H. J. SURLS**

**Asst. Vice President  
Operations  
R. H. SHOBER**

**Superintendent  
W. S. BYRNE**

## ALL SUBDIVISIONS

|                               |                                 |
|-------------------------------|---------------------------------|
| <b>1. Speed Restrictions—</b> | <b>Maximum Speeds Permitted</b> |
| Passenger trains .....        | 79 MPH.                         |
| Freight trains .....          | 65 MPH.                         |

The above speeds are subject to modification under speed restrictions indicated under each subdivision special instructions.

All trains and engines through turnouts and gantlets except as specified in special instructions or where fixed signals indicate otherwise..... 12 MPH.

Engines running light or with caboose only 50 MPH unless otherwise provided.

| Equipment                               | Main Line | Branch Line |
|---|-----------|-------------|
| Ore cars .....                          | 45 MPH.   | 20 MPH.     |
| Scale test cars.....                    | 35 MPH.   | 20 MPH.     |
| Air dump cars (loaded).....             | 35 MPH.   | 20 MPH.     |
| Wrecking derricks .....                 | 30 MPH.   | 15 MPH.     |
| Locomotive cranes .....                 | 30 MPH.   | 15 MPH.     |
| Pile drivers .....                      | 30 MPH.   | 15 MPH.     |
| Clamshells & shovels.....               | 30 MPH.   | 15 MPH.     |
| Jordan spreaders .....                  | 30 MPH.   | 15 MPH.     |
| Rotary plows, wedge plows & dozers..... | 30 MPH.   | 15 MPH.     |
| Log trains .....                        | 30 MPH.   | 15 MPH.     |

Diesel engines, wrecking cranes and other types of heavy work equipment must not be operated on subdivisions on which they have not been previously operated until it is positively known that such movement can be made safely.

### 2. Movement of engines dead in trains—

Diesel engines not equipped with alignment control couplers or alignment control lock blocks when in tow in freight or mixed trains must be handled singly, not in groups and not less than 5 cars or more than 15 cars from the road engine.

Other diesel units when in tow dead in trains should not be in groups of more than 5 units, such units may be handled next to road units. Diesel units equipped with coupler control lock blocks must have lock blocks in "Down" position when in multiple groups.

#### Diesel units not equipped with alignment control devices—

|           |  |
|-----------|--|
| GN .....  | 1 through 195  |
| CBQ ..... | 9108 through 9106<br>9136, 9137, 9139 through 9143, 9147 through<br>9153, 9203 through 9248, 9400 AB through<br>9413 AB, 9249 through 9292, 9310 through<br>9321 |
| NP .....  | 99 through 177<br>400-429<br>500, 501, 525, 551, 555 through 558<br>602, 603, 651, 700 through 724<br>750, 800 through 803, 850 through 853<br>900 through 912   |
| SPS ..... | 11 through 55<br>856-869   |

#### Diesel units equipped with coupler alignment lock blocks—

|           |   |
|-----------|---|
| GN .....  | 550 through 599   |
| CBQ ..... | 200 through 267, 270 through 287<br>300 through 374, 400 through 411<br>430 through 459 |
| NP .....  | 200 through 375, 552 through 554<br>562 through 569                                     |
| SPS ..... | 60 through 84   |

All other Diesel units are equipped with alignment control couplers.

#### Maximum Speed Diesel Units Dead In Tow—

|   |         |
|---|---------|
| CBQ 9103 through 9106.....  | 30 MPH. |
| 9136, 9137, 9139 through 9143, 9147 through<br>9153, 9203 through 9292..... | 50 MPH. |
| 100 through 999.....  | 65 MPH. |
| 9916 through 9993.....  | 79 MPH. |

|  |         |
|--|---------|
| NP Engine 100 .....  | 40 MPH. |
| 400 series, 600, 700 series.....   | 45 MPH. |
| 99 and 5400 series .....   | 55 MPH. |
| 100 series (except 100) 525, 800 through 803..   | 60 MPH. |
| 200 series, 300 series, 500, 501, 550 through<br>569, 850 series, 860 series 900 series, 6000<br>series, 7000 series ..... | 65 MPH. |
| 2500, 2800, 3300, 3600 series.....   | 70 MPH. |
| 6500 series, 6600, 6700 series.....  | 75 MPH. |
| Budd cars B-30, B-31, B-32, B-40, B-41, B-42<br>on rear of train only.....   | 79 MPH. |

|  |         |
|--|---------|
| GN 14 through 16, 77, 80 through 83, 98, 99, 102<br>through 110, 112 through 131, 134 through<br>136, 145 through 162, 165 through 170.....  | 50 MPH. |
| 11 through 13, 17 through 23, 29 through 33,<br>100, 101, 163, 164, 186 through 195, 200<br>through 209, 271 through 276, 307 through<br>317, 448 through 474 even nos., 550 through<br>599, 600 through 678, 681 through 734, 900<br>through 915, 2000 through 2035, 3000 through<br>3040 ..... | 65 MPH. |
| 320 through 333, 350 through 385, 400 through<br>400, 500 through 503, 505 through 512, 679,<br>680 R.D.C. 2350, 2500 through 2544.....  | 79 MPH. |
| SPS 11, 22 through 28, 40 through 45,<br>50 through 55.....  | 50 MPH. |
| 60 through 98, 154 through 327, 856, 869.....  | 65 MPH. |
| 330 through 335, 150 through 153, 750,<br>800 through 806.....   | 79 MPH. |

3. When N.P. road passenger diesel units are coupled in multiple with road freight or road switcher units, the road passenger units must be trailing to avoid danger of sliding wheels on the freight or road switcher units due to excessive brake cylinder pressure. The speed restrictions for freight and road switcher units must be observed to avoid damage to traction motors.

4. Following equipment loaded or empty must be handled on rear of trains, unless otherwise provided:

Outfit cars  
Tie flats (GN X4800 to X4975, X4410)  
Scale test cars (next ahead of caboose)  
Wrecking derricks  
Pile drivers  
Loco cranes  
Rotary Snow Plows, dozers, wedge plows  
Jordan spreaders  
Air dump cars loaded or empty  
Log flats — NP 117002 to 117892

All cars 80 feet or longer, loaded or empty, should be placed on rear of train for movement over any grade of 1% or more and where track curvature is 6° or greater.

The following subdivisions have curves at 6° or more on grades of 1% or more:

|                    |                   |
|--------------------|-------------------|
| Second Subdivision | Fifth Subdivision |
|--------------------|-------------------|

5. Should flat spots on wheels develop on passenger train cars or any engine, conductor or engineer will immediately advise Chief Dispatcher and be governed by his instructions.

6. Heavy cars—Cars heavier than the following not permitted without authority of Superintendent:

|  |              |
|--|--------------|
| 40 ft. or less in length.....  | 220,000 lbs. |
| Over 40 ft. long.....  | 263,000 lbs. |
| EXCEPT: On mainline subdivisions cars at<br>least 64'8" over strikers with minimum axle<br>spacing of 6'0", minimum truck centers of<br>53'7" and minimum wheel diameter of 38"..... |              |
|  | 315,000 lbs. |

7. Rule 223 unless otherwise provided — Lights will not be displayed on Branch Line Subdivisions. Trains will be governed by the day indication of these train order signals.

**8. Pulpwood—**

Pulpwood loaded on open top cars, but not in accordance with Open Top Car Loading Rules, may be handled only in accordance with the following requirements:

Such loads shall not be moved in a train until inspected by the conductor who will determine that they are not overloaded or improperly loaded and are safe to move without loss of lading.

**On Double Track—**

**SPEED OF TRAINS HANDLING SUCH LOADS WILL NOT EXCEED 20 MPH.**

Trains handling such loaded cars must not meet or be passed by trains, except work trains, between stations on opposite track of double track; must be standing when met or passed by passenger trains on opposite track at stations and if practicable must be standing when met or passed by freight trains on opposite track, but if not practicable will move at reduced speed. When meeting or passing work trains between stations one train must be standing when practicable.

Conductor will notify dispatcher when such loaded cars are to be handled in their trains and secure train orders that trains, except work trains, on opposite track will be held at next station until their train has arrived. Such loaded cars must be handled between stations only during daylight hours except in case of emergency, and when running between stations, a trainman must be stationed on the rear platform of the caboose to watch for pulpwood that may be lost from cars and obstruct the opposite track. In case of such obstructions prompt action must be taken to protect trains on the opposite track.

**On Single Track—**

Trains handling such loaded cars must be standing when meeting or being passed by passenger trains.

The foregoing requirements will not apply to pulpwood loaded in gondola cars, properly secured with side protection of wire mesh or boards in accordance with Open Top Car Loading Rules. Precautions to be observed in the handling of peeled pulpwood. 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.

If unpeeled pulpwood, end stakes must be placed vertically across both ends of car so as not to leave a gap or opening between the stakes. If car is loaded above the end stakes car must be refused and Superintendent notified.

**9. Duluth-Superior Terminals — Yard Limits—**

All tracks between yard limit signs located at:

East D. M. & I. R. Junction on First Subdivision  
1432 feet East of MP 145, west of West Duluth Jct. on Second Subdivision

3632 feet West of MP 9, west of Central Ave. on Third Subdivision

1331 feet West of MP 61, east of Allouez on Fifth Subdivision will be operated as one yard.

- (a) First class trains run at reduced speed within these limits. Second and inferior class, extra trains and engines may run ahead of first class trains which are five minutes or more late without train order authority, avoiding delay to such trains to the greatest practicable extent.
- (b) Extra trains and engines may move in either direction on single track and with the current of traffic on double track without train order authority.
- (c) The D. T. Ry. main track is the northmost track between the Hallett Coal Dock crossing and connection with Sixth Subdivision main track. All switches leading from this track when not in use, will be left lined for D. T. Ry.
- (d) All trains and engines using D. T. Ry. main track from connection of Missabe coal dock to east end of Zenith Furnace Company's lead, on Sixth Subdivision, will move in both directions at reduced speed, expecting to find the D. T. Ry. main track occupied.
- (e) D. T. Ry. connection, located at east end of Zenith Furnace Company's lead, Sixth Subdivision, will be considered a

railroad crossing. Trains and engines using this connection will come to a full stop and make sure that track is clear before proceeding.

- 10. At Duluth—City ordinance prohibits blocking street crossing at 1st Ave. East for more than 5 minutes; or of any other crossing for more than 10 minutes.

Engine whistle will not be used between 3rd Ave. East and 5th Ave. West, or between 14th Ave. West and 35th Ave. West (except 35th Ave. West) except as an alarm or warning, or to signal towerman, to call for signals, as a safety precaution in backing cars or engines, or as a signal in testing air brakes. No engine or train will run within the city without having bell ringing while in motion, and approaching any street or avenue. Westward freight trains made up in Bridge Yard departing via Second Subdivision will proceed onto Westward main track through Eighteenth Avenue Crossover.

- 11. Rules 200 and 83(B) and other rules pertaining to authority for and signature on train orders and clearances are modified to permit train orders and clearances to be issued by the authority and over the signature of the Chief Dispatcher.

Until further notice train dispatchers offices will remain at present locations and will govern the same districts as prior to the merger.

**FIRST SUBDIVISION**

| 1. Speed Restrictions—  | Maximum Speeds Permitted |         |
|---|--------------------------|---------|
| Zone—Between  | Passenger                | Freight |
| Central Ave. Tower and Boylston.....                                    | 75 MPH.                  | 50 MPH. |
| Boylston and Foxboro.....   | 60 MPH.                  | 40 MPH. |
| Foxboro and Coon Creek.....   | 79 MPH.                  | 60 MPH. |
| Garfield Ave. ....  | 30 MPH.                  | 30 MPH. |
| Garfield Ave. and Central Ave.....                                      | 55 MPH.                  | 40 MPH. |
| At Superior—Over switches at Belknap St. and C&NW Conn. all trains..... | 15 MPH.                  |         |
| Over Bridge 2, St. Louis Bay.....                                       |                          | 15 MPH. |

|   |                  |         |
|---|------------------|---------|
| Duluth Terminal Bridge to GN Rices Point, trains and engines .....        | Restricted Speed |         |
| Boylston Wye Track.....   |                  | 10 MPH. |
| Over wheel checker—   |                  |         |
| Saunders .....  |                  | 20 MPH. |
| Except ore trains .....   |                  | 15 MPH. |
| Long lead, east end Sandstone Yard.....                                   |                  | 15 MPH. |
| 35 MPH.—Trains or engines through No. 20 turnouts at following locations: |                  |         |

|   |           |                     |                 |
|---|-----------|---------------------|-----------------|
| Saunders .....  | Crossover | Brook Park .....    | Jct. and Siding |
| Boylston .....  | Crossover | Grasston .....      | Siding          |
| Askov .....   | Siding    | Coon Creek Jct..... | Jct.            |
| Hinckley Tower .....  | Siding    | Coon Creek .....    | Crossover       |
| 25 MPH.—Trains or engines through No. 15 turnouts at following locations: |           |                     |                 |
| Cent. Ave. Tower.....   | Crossover | Br. 1.3 .....       | End Dbl. Trk.   |
| Saunders .....  | Jct.      |                     |                 |

- 2. Train Register Exceptions—  
All trains register by ticket at Central Ave. Tower and Coon Creek.

A check of register may be issued by operator when authorized by train dispatcher, either instead of, or in addition to, train order check.

At Central Avenue when no telegrapher on duty all regular trains will register in train register located in switchman's room west of depot office.

- 3. Clearance Provisions and Exceptions Rule 83(B)—  
At Boylston, trains for which these points are initial stations may proceed on authority of clearance under which such trains arrive.

Clearance received by first class trains and extra trains handling passengers at Minneapolis, and by other trains at Minneapolis

Jct. will clear train at Coon Creek when train order signal indicates proceed.

Clearance not required for trains originating at Garfield Ave., Rices Point (Yard), Bridge Switch, Elevator Station, C&NW Conn. and Belknap St.

At Central Ave. westward trains will not require clearance if train order signal is in the proceed position.

4. **Restricted Clearances—**

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

5. **Hinckley, automatic block signal 72.1 governing eastward trains, is located on left hand side of main track about 500 feet east of depot.**

6. **Speed Test Boards—**

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

Eastward, between MP 76 and MP 77 approximately 4 miles east of Hinckley Tower.

Westward, between MP 77 and MP 76 approximately 3 miles west of Brook Park.

7. **Spring Switches with Facing Point Lock—**

The spring switches in Items 7 and 8 are identified by a target with the letter S on blade of target. Blade is colored yellow with black letter S on both sides. The target is attached to the mast of the spring switch light. When a lunar light is displayed on the spring switch light it indicates that spring switch is in normal operating condition. If a red light is displayed on the spring switch light it is governed by Rule 104(H) of the Consolidated Code of Operating Rules.

Nickerson .....siding      Cambridge .....siding  
Askov .....siding      Bethel .....siding  
Grasston .....siding

8. **Spring Switches without Facing Point Lock—**

Superior, west 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 east of unloader is for unloading track.

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

Superior, West End Brewery lead. Normal position for main track.

9. **At Rices Point—Spring switch is not equipped with either spring switch target or facing point lock is located on roundhouse lead about 1200 feet south of sand tower. Target indication—**

Yellow—Straight track.

Green—Roundhouse lead.

Instructions for operation of spring switches in Item 9 are posted at or near the spring switch and must be complied with. Unless otherwise specified, the normal position of spring switches is for main track.

When the target of a spring switch shows "red" to an approaching train or engine, a trailing point movement actuating the spring switch points must not be made.

Normal indication of siding signal is STOP. If siding signal does not clear on approach of train, movement must be governed by instructions posted at the switch.

Normal position of switches designated below is as follows:

South End Rices Point Yard,  
switch from B to C yard lead  
(top switch) .....when lined for B yard lead;

No. 26 and 31 crossovers on Hump  
(A Yard) .....when lined for Hump (A Yard) lead;

No. 26 and 31 crossovers on Load  
(B Yard) lead .....when lined for Load (B Yard) lead.

North End Rices Point Yard,  
switch off outside lead for  
lead to C Yard .....when lined for Load (B Yard) lead;

Crossover switch on inside lead .....when lined for inside lead;

Crossover switch off outside lead .....when lined for outside lead.

Roundhouse, hand throw switches No. 2 and No. 4 from the outgoing roundhouse tracks .....when lined for lead. Crossover switches from yard tracks to main track must be set for yard tracks when not in use, except where otherwise provided.

10. **Dragging Equipment Detector Indicator—**

Westward trains on Signal 16.8 between Boylston and Foxboro. Eastward trains on Signal 61.1 between Askov and Sandstone.

11. **At Rice Point Interlocking—Eastward interlocking signal located between Hump (A Yard) Lead and Load (B Yard) Lead at east end of Yard governs movements to eastward track and crossover to westward track and movements to east end of Hump (A Yard) Lead. Normal position of west switch of crossover from Hump (A Yard) Lead to eastward track is for eastward track, and must be kept lined and locked in this position when not in use.**

Push-button on mast of westward interlocking signal. If interlocking signal indicates Stop, push-button should be operated, and movement governed by signal indication.

Trains will call for route as follows:

|  |          |
|--|----------|
| For through main track movements ..... | .....    |
| Westward track to eastward track.....  | o & oo   |
| Westward track to yard.....            | o & ooo  |
| Yard to eastward track.....            | ooo & oo |
| Yard to westward track.....            | ooo & o  |
| Eastward track to westward track.....  | oo & o   |
| Eastward track to yard.....            | oo & ooo |

12. **Automatic Interlocking Not Indicated at Station—**

Superior  
73rd St., .....Soo Line R.R. Crossing  
Between Bridge Switch and Elevator Station, St. Louis River  
Bridge—

Interlocking signal on westward track east of Minnesota Draw governs movements to BN track and to C&NW track.

Interlocking signal on eastward track west of Elevator Station governs movements to Straight Main track and to BN freight track.

Eastward trains entering onto Minnesota Draw and westward trains entering onto Wisconsin Draw will be governed by signal at the approach and, if proceed signal is received, will not be required to stop. During period of open navigation on St. Louis River, eastward trains will stop before entering onto Wisconsin Draw and westward trains will stop before entering onto Minnesota Draw.

During closed season of navigation it will not be necessary for trains or engines to stop at either side of drawbridge when signals indicate "Proceed."

13. **At Superior—City ordinance prohibits blocking any street crossing for more than 10 minutes, except in case of unavoidable breakdown.**

14. **At Central Ave.—No. 1 track will be used as siding.**

When setting out or picking up, trains must not block 58th Street, and Tower Avenue crossings.

The switch at end of double track at Central Avenue Interlocking must not be used to make an Eastward train or engine movement to the Westward main track.

15. **Derail Switches—At approach to Minnesota Draw from Duluth. At Superior—Winter St. just opposite freight house.**

16. **BN 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 radio before leaving yard.

17. At the taconite unloading shed at Allouez, commonly known as the Index Plant, a red and yellow light has been installed on both ends of this building. If all of the movable parts of the unloading mechanism are clear so that the train can move through the shed without interference, the signal will display a permissive yellow color. If there is any part of the mechanism that is not clear the signal will display red and train must stop before entering the building.
18. At Garfield Ave.—Switchtender service 6:30 a.m. to 10:30 p.m. daily except Saturday, Sunday and holidays. On Saturdays, Sundays, holidays and between 10:30 pm. and 6:30 a.m. on other days, switches will be handled by crews using them. Switches may be left lined as left by movements through them, and all crews making movements through these switches will approach expecting to find them lined against their movement. Outbound and inbound road crews will handle road engines to and from roundhouse when no switchtender on duty. Unless otherwise instructed, eastward freight trains made up in Bridge Yard, departing via First Subdivision, will use westward main track from connection just west of Garfield Ave. to the Minnesota Drawbridge. Before this movement may be started, Switchtender at Garfield Ave. or person handling switch will contact Drawbridge Operator; if Drawbridge Operator OK's the movement, train may proceed on westward main track, and when Drawbridge Operator gives the approval it will be understood that Drawbridge Operator will not permit any westward train on westward track until freight train has passed Minnesota Drawbridge.
19. Train Register Exceptions—  
Duluth Union Depot for trains arriving at or departing from Fifth Ave. Yard or Union Depot. Rice's Point Yard Office for other trains.  
Superior for BN trains originating or terminating.

## SECOND SUBDIVISION

1. Speed Restrictions—  

| Zone—Between   | Maximum Speeds Permitted |
|--|--------------------------|
| Garfield Ave. and White Bear Lake except as indicated below  | 65 MPH.                  |
| Garfield Ave. and West Duluth Jct.   | 30 MPH.                  |
| Over 21st Ave. West Crossing.  | 15 MPH.                  |
| West Duluth Jct. and MP 143 (between Short Line Park and West Duluth Jct.)                         | 50 MPH.                  |
| MP 143 and MP 135 (Brownell)   | 25 MPH.                  |
| MP 135 and MP 129 (West end Carlton yard)  | 50 MPH.                  |
| Curve 129 between 1585 feet and 3227 feet east of MP 129   | 35 MPH.                  |
| MP 129 and MP 85   | 50 MPH.                  |
| MP 85 and MP 14  | 60 MPH.                  |
| MP 14 and MP 11  | 50 MPH.                  |
| White Bear Lake and St. Paul   | 50 MPH.                  |
| Cloquet and MP 4 (east of Scanlon)   | 15 MPH.                  |
| MP 4 (east of Scanlon) and Carlton   | 30 MPH.                  |
| At Carlton, over double slip switch within interlocking; through movements via Second Subdivision. | 30 MPH.                  |
| Other movements  | 15 MPH.                  |

At White Bear Lake—All trains approach and move over 4th St., at reduced speed.
2. At Garfield Ave.—  
Switchtender service 6:30 a.m. to 10:30 p.m. daily except Saturday, Sunday and holidays. On Saturdays, Sundays, holidays and between 10:30 p.m. and 6:30 a.m. on other days, switches will be handled by crews using them. Switches may be left lined as left by movements through them and all crew making movements through these switches will approach expecting to find switches lined against their movements. Outbound and inbound road crews will handle road engines to and from roundhouse when no switchtender on duty.

3. At Nineteenth Ave. West—Trains using the Dick tracks must not block crossing.
4. At Twenty-first Ave. West—Telephone at crossover—westward trains call yard (3 rings) for route when necessary.
5. At West Duluth Jct.—  
Yard engines will use east leg of wye and Fond du Lac line but will not leave cars on these tracks. Switch at end of double track is dual control. Normal position is for the eastward track. To secure a restricting indication, Rule 240-R, Figure (4), at eastward interlocking signal governing reverse movements on westward track; engines or trains moving westward through the dual control switch must, before reversing direction, clear the track circuit, the west end of which is located just west of the switch leading to the Western Brass Company near 61st Avenue West.
6. At Carlton—Third Subdivision Instruction govern. Advance-warning sign of 45 MPH. governing westward movements; located at the Interlocking Tower, is 1200 feet in advance of the Reduce Speed sign account junction with the Third Subdivision.
7. At Cloquet—D&NE engines may use main track between D&NE connection at Broadway St. 200 feet west of passenger station and east end of yard. Trains and yard engines must stop at the Northwest Paper Mill crossing (East Cloquet), and protect crossing by flagman. Movements over Arch Street crossing, east of passenger station, must be protected by flagman. Derails located near west end of tracks No. 1 and No. 2, are not provided with derail signs. Extra trains will not run via Cloquet unless directed by train order to do so.
8. At Hinckley—  
Cars must not be left on No. 1 yard track. Trains must not block highway crossing one-half mile east of passenger station, and South First Street Crossing more than five (5) minutes. Foot crossing west of passenger station must not be blocked with cars.
9. At Hinckley Tower Interlocking—trains will call for route as follows:  

|  |     |
|--|-----|
| For Through Main Track Movement:               | —   |
| For Movement from Main Track to Sidings:       | — o |
| For Movements from Sidings to Main Track:      | o — |
| For Movement between yard and westward siding: | oo  |
10. At White Bear Lake—  
Westward trains making stop at the passenger station must stop with engines or cars east of "Crossing Signal Restart" sign located on south side of track 100 feet east of Fourth Street crossing. Cars must not be left on siding within 300 feet of Fourth Street crossing. Normal position of west switch of crossover at Ramaley Avenue will be lined for through movement on siding. Siding extends from M&D Jct. to White Bear Lake. Westward extra trains picking up in New Yard will cut off far enough east of Ramaley Avenue so as not to foul the ringing section of the automatic crossing signals on that avenue. When trains will be delayed more than ten (10) minutes, crossings must be opened promptly.
11. Signal Overlap—  
At Sturgeon Lake—Eastward trains holding main track to meet a westward train will stop before reaching signal overlap sign east of passenger station, to avoid giving approaching train three stop signals.  
At Forest Lake—Westward trains holding main track to meet an eastward train will stop before reaching signal overlap sign west of passenger station, to avoid giving approaching train three stop signals.

- 12. Spring Switches—**  
 Instructions for operation of spring switches are posted at or near the spring switch and must be complied with.  
 Unless otherwise specified, the normal position of spring switches is for main track.  
 When the target of a spring switch shows "red" to an approaching train or engine, a trailing point movement actuating the spring switch points must not be made.  
 Normal indication of siding signal is STOP. If siding signal does not clear on approach of train, movement must be governed by instructions posted at the switch.  
 West Duluth Jct., at junction of Second and Sixth Subdivisions, normal position for Sixth Subdivision main track. Not equipped with facing point lock.
- 13. Retaining Valves—**Between Brownell and MP 143 freight trains of less than 4000 tons will not require retainers. The use of retainers is not required on freight trains being handled by dynamic brake equipped diesel engines when dynamic brake is effective on all units or engine is equipped with brake pipe maintaining feature in operating condition.  
 When retaining valves are required they will be turned to low pressure position beginning at head end of train as follows:  
 Trains of 8000 tons or over—20 retainers  
 Trains of 6000 tons or over—16 retainers  
 Trains over 4000 tons—10 retainers  
 All retaining valves will be turned down between MP 143 and West Duluth Jct.
- 14. Train Register Exceptions—**  
 At Carlton trains register by ticket. A check of register may be issued by operator when authorized by train dispatcher, either instead of or in addition to train order check.
- 15. Clearance Provisions and Exceptions Rule 83(B)—**  
 Trains originating at Garfield Ave., West DM&IR Jct., DW&P Jct., and West Duluth Jct.  
 At Carlton—all trains secure clearance except trains enroute Cloquet.  
 At Mississippi Street Yard, BN trains via Soo Line to Gloster will secure Soo Line Clearance and BN Clearance at Mississippi Street Tower.
- 16. On this subdivision Rule 509 will not apply when signal governs movement over or through a spring switch. In Automatic Block signal territory when a train or engine has been stopped by a signal governing movement over or through a spring switch and signal continues to display a stop indication, after complying with Rule 104(H), movement may proceed at restricted speed through entire block. When stopped at leaving end of siding the indication may be due to an opposing train proceeding on an approach indication and every precaution consistent with train rights and condition of track ahead must be taken before proceeding.**

### THIRD SUBDIVISION

| 1. Speed Restrictions—<br>Zone—Between                   | Maximum Speeds Permitted |         |
|--|--------------------------|---------|
|  | Passenger                | Freight |
| Central Ave. and Staples except as indicated below ..... | 75 MPH.                  | 65 MPH. |
| Central Ave. and Anton.....                              | 65 MPH.                  | 50 MPH. |
| Anton and State Line Tower.....                          | 60 MPH.                  | 50 MPH. |
| State Line Tower and MP 20.....                          | 30 MPH.                  | 30 MPH. |
| MP 20 and MP 28 (Carlton).....                           | 65 MPH.                  | 50 MPH. |
| Deerwood and Ironton.....                                | 40 MPH.                  | 40 MPH. |
| MP 28 and MP 148 (Staples).....                          | 55 MPH.                  | 45 MPH. |

- At Brainerd, over public crossings..... All Trains 10 MPH.  
 Between east switch of north siding (east of car shop) and Ninth Subdivision connection at 8th St. 20 MPH.  
 At Aitkin, through village..... 30 MPH.  
 At Carlton, over double-slip switch within interlocking; through movements via Third Subdivision ..... 30 MPH.  
 Other movements ..... 15 MPH.
- 2. Bridge and Engine Restrictions—**  
 Over Bridge 9 west of Central Ave..... 20 MPH.  
 Avoid using automatic brakes on bridge, except in emergency.  
 Cars under 40 feet long and weighing between 177,000 and 220,000 pounds when coupled in groups of two or more ..... 20 MPH.  
 Over Bridge 119 at Brainerd:  
 Wrecking cranes 45-48 inclusive..... 15 MPH.  
 Cars under 40 feet long and weighing between 177,000 and 220,000 lbs. when coupled in groups of two or more ..... 20 MPH.
- 3. At Carlton Interlocking—**Trains will call for routes as follows:  
 Third to Third "East & West": ..... 00 & 00  
 Third to Second "East & West": ..... 00 & 000  
 Third to Loop Track "West": ..... 00 & 0000  
 Third to Cloquet Line "East": ..... 00 & 0000  
 Second to Second "East and West": ..... 000 & 000  
 Second to Third "East and West": ..... 000 & 00  
 Second to Loop Track "West": ..... 000 & 0000  
 Second to Cloquet Line "East": ..... 000 & 0000  
 Cloquet Line to Third "West": ..... 0000 & 00  
 Cloquet Line to Second "West": ..... 0000 & 000  
 Cloquet Line to Loop Track: ..... 0000 & 0000  
 Loop Track to Third "East": ..... 0000 & 00  
 Loop Track to Second "East": ..... 0000 & 000  
 Loop Track to Cloquet Line "West": ..... 0000 & 0000  
 Lower yard lead to Third Subdivision. "East and West": ..... — 0  
 No. 9 Lead through Interlocking "East and West": ..... —  
 Push button system controlling operation of lower arm of Third Subdivision governing Signal, Carlton Interlocking, has been installed to govern follow-up westward movements to either Third or Second Subdivisions. All follow-up movements will be governed by lower arm of Third Subdivision governing signal as well as return movements to train after setting out in Carlton yard from Third Subdivision Main Track.
- 4. At McGregor Interlocking—**Trains will call for route as follows:  
 For BN and Soo Line main tracks:..... —  
 From BN and Soo Line to west wye:..... — 0  
 Between Interchange Track and west wye: ..... 0000  
 To siding: ..... 00 —
- 5. At Aitkin—**Cemetery road crossing one miles west must not be blocked in excess of ten (10) minutes, except in case of emergency, when it must be opened as soon as possible.
- 6. At Deerwood—**Eastward trains from Ironton use junction switch one and three-fourths miles east of passenger station; westward trains to Ironton use crossover west of passenger station, unless otherwise authorized by train order.  
 Trains will not run via Ironton unless directed by train order to do so.  
 Train order signal does not govern trains enroute to or from Ironton.
- 7. At Ironton—**Track must not be used beyond point 2400 feet west of Trommald Jct.

8. **At Brainerd**—Twin Cities division trains must stop before fouling Third Subdivision main track. Connection with Ninth Subdivision at west end of yard is governed by automatic block signals. City ordinance provides that crossings must not be blocked more than five (5) minutes by standing trains or cars. Shop crossings must not be blocked when employes are going to work at 7:00 a.m. and 1:00 p.m. Westward trains stop clear of shop crossing 300 feet east of Thirteenth Street, and eastward trains either move a sufficient distance to clear City crossings or stop clear of First Street crossing, to make setouts or pickups. Trains must not block Oak Street Crossing near milk plant and must promptly clear crossings when coupling up in South Yard for movement. Between Twin Cities Division Jct. at 8th Street and Ninth Subdivision Jct. at west end of yard, there is no superiority of trains. All trains and engines must move within these limits at reduced speed. Between the hours of 7 a.m. and 3 p.m. on Sundays, all train movements over the crossing over 4th, 6th and 8th streets, must be fully protected in accordance with current rules and special instructions account no crossing gateman on duty.
9. **At Staples**—Fargo Division instructions govern.
10. **Sidings**—Aitkin, north siding is westward; south siding is eastward. Brainerd, No. 1 Track in New Yard is Siding.
11. **Signal Overlap**—Kimberly and Woodbury—Trains holding main track to meet an opposing train taking siding will stop before reaching signal overlap sign, about middle of siding, to avoid giving approaching train two stop signals.
12. **Spring Switches**—Equipped with facing point lock. Instructions for operation of spring switches are posted at or near the spring switch and must be complied with. Unless otherwise specified, the normal position of spring switches is for main track. When the target of a spring switch shows "red" to an approaching train or engine, a trailing point movement actuating the spring switch points must not be made. Normal indication of siding signal is STOP. If siding signal does not clear on approach of train, movement must be governed by instructions posted at the switch. Anton, at end of double track, normal position for westward track. Carlton, east switch of north siding. Woodbury, east switch of siding equipped for switch key operation. Protected with automatic block signals. Kimberly, west switch of siding equipped for switch key operation. Protected with automatic block signals. Deerwood, at junction to Ironton, one and three-fourths miles east of passenger station, normal position for through movement to Loerch. Indications displayed by two-position color light signal controlling spring switch indicate only if points of the spring switch are in proper adjustment.
13. **Retaining Valves**—Sawyer to Pokegama—Eastward freight trains having tonnage less than 70 tons per brake are not required to use retaining valves. When engine does not have dynamic brake in effective operation on all units or engine is not equipped with brake pipe maintaining feature in operating condition, eastward freight trains having tonnage exceeding 70 tons per brake, before passing Sawyer, shall have retaining valves in slow position (45° above horizontal) on one-fifth of the total number of cars in train, commencing at the head end. All retaining valves will be turned down where first stop is made, at either Pokegama, Central Avenue or Hill Avenue. On eastward freight trains from Sawyer to Superior (Central Ave. or Hill Yard), must have 90 pounds brake pipe pressure prior to departure Sawyer, except on trains which have less than 50 tons per brake.
14. **Train Register Stations**—Brainerd—For trains originating or terminating.

15. **Train Register Exceptions**—At Carlton trains register by ticket. A check of register may be issued by operator when authorized by train dispatcher, either instead of, or in addition to, train order check.
16. **Clearance Provisions and Exceptions Rule 83(B)**—At Carlton, all trains secure clearance. At Central Ave. eastward trains will not require clearance if train order signal is in the proceed position. At Brainerd all trains secure clearance.

## FOURTH SUBDIVISION

1. **Speed Restrictions**—
- | Zone—Between              | Maximum Speeds Permitted |
|---------------------------|--------------------------|
|                           | Freight                  |
| Boylston and Mirbat ..... | 40 MPH.                  |
| Mirbat and Gunn .....     | 60 MPH.                  |
| Gunn and Cass Lake .....  | 49 MPH.                  |
- Between Absolute Signals of Interlockings at:
- |  |         |
|--|---------|
| Bridge 29, westward .....  | 20 MPH. |
| Cass Lake, on all tracks over footwalk crossing located west of mainline switch to roundhouse..... | 8 MPH.  |
- Whistle signal must be sounded as prescribed by rule. Crossing must be cut immediately. When this crossing is blocked by coupling train, trainmen must remain at the crossing to prevent pedestrians from crawling through the cars.
- 35 MPH.—Trains or engines through No. 20 turnouts at following locations:
- |                              |               |                  |         |
|------------------------------|---------------|------------------|---------|
| Brookston .....End Dbl. Trk. | Philbin ..... | Siding           |         |
| Paupores .....               | Siding        | Swan River ..... | Siding  |
| Floodwood .....              | Siding        | Bridge 29 .....  | Gantlet |
| Island .....                 | Siding        |                  |         |
- 25 MPH.—Trains or engines through No. 15 turnouts at following locations:
- |                |      |            |      |
|----------------|------|------------|------|
| Boylston ..... | Jct. | Gunn ..... | Jct. |
|----------------|------|------------|------|
2. **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. At Soo Jct., Soo Line Trains may proceed to Cass Lake without obtaining clearance or train order authority which will be received at Cass Lake.
3. Extra trains do not need running order authority for movements between Brookston and Boylston when running with the current of traffic.
4. Main track switches to the following spur tracks located in CTC territory are not equipped with electric locks: Mirbat, Wawina, Webster Spur—(Rule 268(a) applies).
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 4½ miles west of Island.  
Eastward, between MP 87 and MP 86 approximately 2 miles east of Wawina.
6. **Cloquet**, derails located near east end storage tracks Nos. 1 and 2 are not provided with derail signs. When setting out cars on either end of No. 1 track be sure cars are shoved down far enough to clear crossovers. Cars left on 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. At Hawkinson Addition Crossing MP 110, trains stopped to make set-outs at Grand Rapids must clear this crossing.

8. **Alford—International Refinery**, while switching, do not handle cars over drip pans with brakes set as sparks create a fire hazard. Caboose with fires in stoves not permitted on any of the plant tracks and crews working in the vicinity will refrain from smoking.
9. **Spring Switches with Facing Point Lock—Cass Lake, east yard switch.**  
The above spring switch is identified by a target with the letter S on blade of target. Blade is colored yellow with black letter S on both sides. The target is attached to the mast of the spring switch light. When a lunar light is displayed on the spring switch light it indicates that spring switch is in normal operating condition. If a red light is displayed on the spring switch light be governed by Rule 104(H) of the Consolidated Code of Operating Rules.  
The spring switch light when displaying a lunar aspect is not to be confused with the lunar aspect as shown in Consolidated Code Rule 240N.
10. **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.
11. **Automatic Interlockings Not Indicated at Station—**  
Bridge 29, 2.2 miles east of Alford.....gantlet Bridge 29:  
Release for westward route on westward track is located in release box at eastward absolute signal.  
Release for eastward route on eastward track is located in release box at westward absolute signal.  
Cranks for hand operation of smashboards are attached by chains to the mechanism.
12. **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 BN 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.
13. Before attempting to use the electric-locked switches at Gunn, a member of the crew must call the train dispatcher and obtain his permission. When through using the electric-locked switches, the train dispatcher must be notified immediately.
14. Engines must not enter shed at MP&L plant Cohasset account close clearance with infra red heaters.

## FIFTH SUBDIVISION

|  |                          |         |
|--|--------------------------|---------|
| 1. <b>Speed Restrictions—</b>  | Maximum Speeds Permitted |         |
| Zone—Between   | Passenger                | Freight |
| Ashland and Central Ave.....   | 40 MPH.                  | 85 MPH. |
| Exception: On all curves between MP 12 and Allouez.....                                    | 25 MPH.                  | 25 MPH. |
| Trains handling loaded ore cars.....   |                          | 20 MPH. |
| Trains handling ore loaded in other than ore cars.....                                     |                          | 25 MPH. |
| At Iron River on Soo Line No. 1 Track all trains.....                                      |                          | 5 MPH.  |
| All trains and engines, 7th Ave. West to 22nd Ave. West, between MP 0 and 2, Ashland ..... |                          | 10 MPH. |
| 2. <b>Bridge and Engine Restrictions—</b>  |                          |         |
| Between Allouez and Ashland  |                          |         |
| 250-ton wrecking derricks.....   | Not Permitted            |         |
| In Duluth-Superior Terminals and over Bridges  |                          |         |
| 250-ton wrecking derricks.....   | 15 MPH.                  |         |
| Bridge 37, Brule River   |                          |         |
| Multiple unit diesels .....  | 25 MPH.                  |         |
| U25C, U28C, SD45, U83C Diesel electric engines....   | 20 MPH.                  |         |

Pile Drivers NP 25 to 28, GN X9100-9103, inclusive 20 MPH.  
Heavy Car Restrictions:

Cars less than 40 feet long weighing between 177,000 lbs. and 220,000 lbs. when coupled in groups of two or more, over Bridges 0, 5, 37, 48, 49 and 50 ..... 10 MPH.

3. **At Ashland—Normal position of main track switch just east of Seventh Ave., leading to the Soo Line, is for the Soo Line connection.**  
At Ellis Ave., all trains must stop in advance of crossing, and will proceed only after crossing is protected by a member of the crew.
4. **At Allouez—Track No. 2 coal yard must not be used by ore trains.**
5. **At East End—Normal position of switch at end of double track is for westward trains.**
6. **At Newton Ave.—Between C&NW connection at Newton Ave. and East End, the westward track will be used as single track by eastward trains and engines entering at Newton Ave. and by westward trains and engines. Other eastward movements will be made on eastward track.**
7. **At Hill Ave. Yard—Ore trains arriving will stop to clear east end of arriving tracks.**  
Trains weighing ore on an automatic scale will move at about 3 MPH. Semaphore over scale house is operated by weighmaster, and engineers will be governed by its indications:  
Green: Proper speed.  
Yellow: Reduce speed.  
Red: Stop.
8. **At Soo Line Crossing, Interlocking is remotely controlled by Soo Line Operator at Stinson Yard. All movements through this interlocking will be governed by Rule 606.**  
When necessary to get signal for route, call control operator from telephone near crossing, as required by Rule 606(b). If unable to communicate with control operator in a reasonable time, movement over crossing may be made in accordance with Rule 606(c) by occupying track between absolute signal and crossing for a period of ten (10) minutes and then proceeding over crossing.
9. **Between Central Ave. and Soo Line Crossing—On school days between 8:15 a.m. and 9:00 a.m. between 11:25 a.m. and 1:00 p.m. and between 3:25 p.m. and 4:00 p.m. all trains will stop and flag over grade crossing at John Ave. and 60th St. and the pedestrian crossing about 100 feet West of grade crossing.**
10. **At Central Ave.—Normal position of switch at junction of Third and Fifth Subdivisions, at interlocker, is for Third Subdivision.**
11. **Spring Switches—**  
Instructions for operation of spring switches are posted at or near the spring switch and must be complied with.  
Unless otherwise specified, the normal position of spring switches is for main track.  
When the target of a spring switch shows "red" to an approaching train or engine, a trailing point movement actuating the spring switch points must not be made.  
Normal indication of siding signal is STOP. If siding signal does not clear on approach of train, movement must be governed by instructions posted at the switch.  
Central Ave.—Normal position of spring switch at end of double track is for eastward trains. Normal position of spring switch at wye connection between Third and Fifth Subdivisions is for direct route to Pokegama. These switches are governed by interlocking signals equipped for switch key signal operation. If use of switch key does not give "restricting signal", proceed according to rule. Not equipped with facing point lock.
12. **Train Register Stations—**  
Superior, Soo Line 21st Street Yard Office.



13. **Train Register Exceptions**—At Central Ave. trains register by ticket.  
Eastward ore trains from Third Subdivision will not register. A check of register may be issued by operator when authorized by train dispatcher, either instead of, or in addition to, train order check.  
Ashland, Soo Line Station.
14. **Clearance Provisions and Exceptions Rule 83(B)**—  
At Central Ave. ore trains from Third Subdivision will not require clearance.  
Soo Line trains originating at Newton Ave. secure clearance at Soo Line Stinson Avenue Yard Office.

## SIXTH SUBDIVISION

- |  |                          |         |
|--|--------------------------|---------|
| 1. <b>Speed Restrictions</b> —   | Maximum Speeds Permitted |         |
| Zone—Between   | Passenger                | Freight |
| West Duluth Jct. and Zenith Furnace ..                                       | 30 MPH.                  | 30 MPH. |
| Zenith Furnace and LST&T Ry. Jct. ....                                       | 40 MPH.                  | 40 MPH. |
| At West Duluth Jct., around east leg of wye and passing Zenith Furnace Plant | Reduced Speed            |         |
| West Duluth Jct., and New Duluth .....                                       | 15 MPH.                  | 15 MPH. |
2. **At West Duluth Jct.**—Normal position of switches on east leg of wye is for Sixth Subdivision main track. Second Subdivision special instructions govern.
3. Train and engines between New Duluth and 72nd Ave. will be governed by Rule 98. Train orders and clearances are not required.
4. **Clearance Provisions and Exceptions Rule 83(B)**—  
Trains originating at West Duluth Jct., Berwind Jct. LST&T Ry. Jct. and New Duluth.

## SEVENTH AND EIGHTH SUBDIVISIONS

- |   |                          |             |
|---|--------------------------|-------------|
| 1. <b>Speed Restrictions</b> —                                    | Maximum Speeds Permitted |             |
| Zone—Between  | Freight                  |             |
| Brookston and Gunn (via Kelly Lake) .....                         | 45 MPH.                  |             |
| Kelly Lake and Dormer Jct. ....                                   | 30 MPH.                  |             |
| Between Absolute Signals of Interlocking at:                      |                          |             |
| Emmert .....  | 20 MPH.                  |             |
| At Virginia—  |                          |             |
| Between Absolute Signals of Interlockings at:                     |                          |             |
| DW&P, Virmount Tower .....  | 20 MPH.                  |             |
| DW&P, Crescent Ave. ....  | 20 MPH.                  |             |
| Trains or engines through No. 20 turnouts at following locations: | 85 MPH.                  |             |
| Baden .....   | Siding                   | Onega ..... |
| Fermoy .....  | Siding                   |             |
2. **Clearance Provisions and Exceptions Rule 83(B)**—  
At Brookston and Gunn, trains for which these points are initial stations may proceed on authority of clearance under which such trains arrive.
3. **Dragging Equipment Detector Indicator**—  
Eastward Trains, on iron mast approximately 6400 feet east of Signal 62.2 about 2.5 miles west of Brookston.
4. Main track switches to the following spur tracks located in CTC territory are not equipped with electric locks. Rule 268(A) applies.  
Arlberg, Casco, Onega.
5. Between Calumet and Oil Spur, located 1.47 miles west of Bovey, main track will be used jointly by BN and DM&IR Rys. and authority for train movements is controlled by BN and BN rules and Special Instructions will govern.

6. The main track between the end of CTC at Keewatin and the beginning of CTC at Gunn is all yard limit. Transfer must obtain permission from Train Dispatcher before occupying main track.
7. 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 wye is clear on the main track before proceeding with train down the descending grade on both legs of the wye.
8. At the Taconite loading facilities at Butler and National Taconite Plants a red and yellow light has been installed on both ends of the facilities. If all of the movable parts of the loading mechanism are clear so that the train can move through the facilities without interference, the signal will display a permissive yellow color.  
If there is any part of the mechanism that is not clear the signal will display red and train must stop before entering the facilities.
9. Train and engine movements from main line on Hull Crusher Spur over Kelly Lake road crossing must be protected by a member of the crew due to restricted view approaching this crossing.
10. Main track Kelly Lake to Dormer Jct. is all yard limit and movements will be governed by Consolidated Code Rule 93. Train order authority or Clearance Form A is not required. Transfers will not be required to display markers Rule 19 or signals Rule 21.  
Trains and engines will run with the current of traffic between Kelly Lake and Emmert and must keep to the left unless otherwise provided.  
BN and DM&IR transfers must obtain permission of BN dispatcher before occupying main track.
11. Train order authority or Clearance Form A not required for transfers originating at Bovey for movement between Taconite Jct. and Canisteo or between Canisteo and Gunn.
12. Within the Village of Hibbing, the locomotive whistle will not be sounded at any crossing or in the railroad yard except as an alarm in case of fire or to warn persons on the track of immediate danger.
13. **Following from DM&IR Ry.:**  
Train orders are not required for movement on the Wilpen Branch between Wilpen and Chisholm and between Monroe Jct. and Monroe. Trains will operate under provisions of Rule 93. Crews will contact Yardmaster Mitchell District before making movement on this branch.  
Train orders are not required for movement on the Pillsbury Branch. Trains will operate under Provisions of Rule 93.  
Between St. Clair Jct. and Chisholm Jct. main track will be used jointly by BN and DM&IR Rys. and authority for train movements is controlled by DM&IR Ry. and DM&IR rules will govern.
14. 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, position of switches is for Balkan Mining Company and for BN track from Danube Mine to washing plant. Signals will clear automatically for Balkan Mining Company and for BN Ry. from Danube Mine to washing plant. To obtain signal to cross over the Balkan Mining Company track, BN 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 BN Ry. washing plant track.
15. Normal position of Gunn Line Switch at east leg of wye, Kelly Lake, will be for Seventh Subdivision.
16. **Crossovers on Double Track**—  
**Facing Point**—Hull Crusher, Ruby Jct.  
**Trailing Point**—Stevenson, Agnew, Hull Rust, Scranton, North Mitchell, Kerr, Hibbing.

17. **Spring Switches with Facing Point Lock—**  
 Keewatin—West end north storage track switch.  
 Nashwauk—West end north storage track switch.  
 West end south storage track switch.  
 Butler Taconite Track—west end.  
 National Taconite Track—west end.  
 Calumet, west end new yard switch.  
 Canisteo, west end new yard switch.  
 Normal position is for main track.
18. **Spring Switches without Facing Point Lock—**  
 Kelly Lake, west wye switch,  
 Normal position is for Seventh Subdivision.  
 Kelly Lake, end of double track,  
 Normal position is for eastward track.  
 The spring switches in Items 17 and 18 are identified by a target with the letter S on blade of target. Blade is colored yellow with black letter S on both sides. The target is attached to the mast of the spring switch light. When a lunar light is displayed on the spring switch light it indicates that spring switch is in normal operating condition. If a red light is displayed on the spring switch light be governed by Rule 104(H) of the Consolidated Code of Operating Rules.
19. **Semi-Automatic Interlockings—**  
 Emmert.....DM&R Ry. crossing  
 Normal position of spring switch at west end of connection with DM&R Ry. is lined for BN track. Normal position of spring switch at south end of connection with DM&R Ry. is lined for DM&R track to Mitchell. Signal indications are displayed accordingly. If any route other than the above normal route is to be used, trains must stop at interlocking signal and desired route lined by hand. Signal should then clear in about one minute. If signal does not clear and no conflicting movement is evident, push-button release on interlocking signal should be operated to obtain signal indication.  
 Calumet, 0.6 miles east of.....Hill Annex Spur  
 Complete instructions for operation of electric lock and gates at semi-automatic interlocking are located at "Release" boxes.
20. BN trains to and from Virginia operate via DM&R Ry. tracks between Emmert and Virginia.
21. **Automatic Interlockings—**  
 Virginia, 0.4 miles west of.....DW&P Ry. crossing  
 1.2 miles west of.....DW&P Ry. crossing
22. Virginia, Ninth Ave. West, 6th Avenue West and 3rd St. North crossings:  
 Trains and engines must stop before passing over crossing and a member of crew on ground at the crossing will protect movement.
23. Before attempting to use the electric-locked switches at Gunn, a member of the crew must call the train dispatcher and obtain his permission. When through using the electric-locked switches, the train dispatcher must be notified immediately.
24. Because of heavy mine truck operations over a 100 foot all rail public crossing one mile south of Chisholm depot on Great Northern joint trackage spur track to the City of Chisholm, all trains must stop before entering this crossing and flag across.
25. At the locations listed below there are spring switches with a spring switch light on a separate mast. When this light displays a lunar aspect it means the spring switch is in normal operating condition. When this light displays a red aspect Consolidated Code Rule 104(H) applies. The spring switch light when displaying a lunar aspect is not to be confused with the lunar aspect as shown in Consolidated Code Rule 240 N.  
 Keewatin; Nashwauk; Butler Taconite Track; Calumet; Canisteo.

## NINTH SUBDIVISION

- | 1. Speed Restrictions—  | Maximum Speeds Permitted |
|---|--------------------------|
| Zone—Between  | Freight                  |
| Brainerd and North Bemidji.....   | 85 MPH.                  |
| North Bemidji and International Falls.....  | 35 MPH.                  |
| Between North Bemidji and International Falls, trains handling pulpwood .....   | 30 MPH.                  |
| At Brainerd, over public crossings all trains .....   | 10 MPH.                  |
|   | All Trains               |
| At Bemidji—Over public crossings at,  |                          |
| Carpenter Ave. ....   | 30 MPH.                  |
| Mill Park .....   | 20 MPH.                  |
| Skelly Oil .....  | 20 MPH.                  |
| Other public crossings.....   | 15 MPH.                  |
| Over public crossing 200 ft. west of MP 97, between North Bemidji and Lavinia.....  | 30 MPH.                  |
| Funkley and Kelliher.....   | 15 MPH.                  |
| <br>  |                          |
| 2. <b>Bridge and Engine Restrictions—</b>   |                          |
| 250-ton wrecking derricks over all bridges listed below:  |                          |
| Bridge 94 at Bemidji.....   | Not Permitted            |
| 150-ton wrecking derricks, Pile Drivers 24 to 34, inclusive, cars under 40 feet long and weighing between 177,000 and 220,000 lbs. when coupled in groups of two or more and cars over 40 feet long weighing between 220,000 and 263,000 lbs. when coupled in groups of two or more.....  | 10 MPH.                  |
| Bridges 166, Big Fork River, and 185, Little Fork 250-ton wrecking derricks.....  | Not Permitted            |
| U25C, U28C, U38C and SD45 series Diesel electric engines .....  | Not Permitted            |
| Cars under 40 feet long weighing between 177,000 lbs. and 220,000 lbs. must be separated from each other and from engine by two cars over 40 feet long weighing under 177,000 lbs. Cars 40 feet or longer weighing between 220,000 lbs. and 263,000 lbs. must be preceded and followed by a car over 40 feet long and weighing under 177,000 lbs. except 89 foot bulkhead flat listed below.  |                          |
| All Trains .....  | 10 MPH.                  |
| 89-foot long bulkhead flat cars loaded to 263,000 lbs. may be coupled together and handled in trains with the following restrictions:   |                          |
| The car adjacent to such flat car or block of such flat cars must not exceed 177,000 lbs. The engine must be separated from such car.   |                          |
| Handle these cars in a block without uncoupling within the combined block except in an emergency or bad order situation.  |                          |
| Series 2500, 2800, 3300 and 3600 diesel engine units between Funkley and Kelliher .....   | Not Permitted            |
| <br>  |                          |
| 3. <b>At Brainerd, Third Subdivision instructions govern.</b><br>Connection with Third Subdivision at west end of yard is governed by automatic block signals.<br>The signal governing movements from the Ninth to the Third Subdivision displays indication Rule 240-A-1 and will not display a proceed indication until the junction switch is properly lined and there are no conflicting train or engine movements in the Automatic Block Signal territory. |                          |
| <br>  |                          |
| 4. <b>At Bemidji—</b> The west wye switch will be in normal position when lined for the west leg of the wye.<br>Tracks between yard limit sign east of Bemidji Tower, Bemidji and yard limit sign west of North Bemidji, operated as one yard.  |                          |
| <br>  |                          |
| 5. <b>Bemidji Automatic Interlocking—</b><br>East leg of wye track switch equipped with an electric lock. Trains making westward movement via east leg of wye must stop within 100 feet east of westward interlocking signal before lining switch.  |                          |
| <br>  |                          |
| 6. <b>Between Funkley and Kelliher—</b> Trains will not run via Kelliher unless directed by train order to do so and not to exceed 10 MPH.  |                          |

7. **At Big Falls**—Track serving the National Pole & Treating Company must not be used beyond 1,510 feet from Highway No. 71 crossing. National Pole & Treating Company tracks may be used for switching cars to or from temporary pulpwood platform.
8. **At International Falls**—On K and S tracks all movements across Sixth Street must be protected.
9. **Train Register exceptions**—  
At Funkley: Trains will register only when so directed by train order.
10. **Clearance Provisions and Exceptions Rule 83(B)**—At North Bemidji, all trains secure clearance.
11. **Railroad Crossings Not Indicated at Station**—  
Between Benedict and Walker.....Dakota Division crossing
12. Unless otherwise instructed, protection against following trains as required by Consolidated Code Rule 99 is not required.

### TENTH SUBDIVISION

1. **Speed Restrictions**—  

|  |                          |
|--|--------------------------|
| Zone—Between                               | Maximum Speeds Permitted |
|  | Freight                  |
| Brook Park and St. Cloud Tower.....        | 40 MPH.                  |
| Absolute Signals of Interlockings at:..... | 20 MPH.                  |
| East St. Cloud.                            |                          |
2. **Clearance Provisions and Exceptions Rule 83(B)**—  
At Brook Park, trains for which this point is initial station may proceed on authority of clearance under which such trains arrive.
3. Unless otherwise instructed, protection against following trains, as required by Consolidated Code Rule 99, is not necessary on Tenth Subdivision, between Brook Park and East St. Cloud.

### SPEED TABLE

| Time Per Mile |      | Miles<br>Per Hour | Time Per Mile |      | Miles<br>Per Hour |
|---------------|------|-------------------|---------------|------|-------------------|
| Min.          | Sec. |                   | Min.          | Sec. |                   |
|               | 46   | 78.3              | 1             | 18   | 46.2              |
|               | 47   | 76.6              | 1             | 20   | 45.0              |
|               | 48   | 75.0              | 1             | 22   | 43.9              |
|               | 49   | 73.5              | 1             | 24   | 42.9              |
|               | 50   | 72.0              | 1             | 26   | 41.9              |
|               | 51   | 70.6              | 1             | 28   | 40.9              |
|               | 52   | 69.2              | 1             | 30   | 40.0              |
|               | 53   | 67.9              | 1             | 33   | 38.7              |
|               | 54   | 66.7              | 1             | 36   | 37.5              |
|               | 55   | 65.5              | 1             | 39   | 36.4              |
|               | 56   | 64.3              | 1             | 42   | 35.3              |
|               | 57   | 63.2              | 1             | 45   | 34.3              |
|               | 58   | 62.1              | 1             | 50   | 32.7              |
|               | 59   | 61.0              | 1             | 55   | 31.8              |
| 1             | 0    | 60.0              | 2             | —    | 30.0              |
| 1             | 1    | 59.0              | 2             | 10   | 27.7              |
| 1             | 2    | 58.1              | 2             | 20   | 25.7              |
| 1             | 3    | 57.1              | 2             | 30   | 24.0              |
| 1             | 4    | 56.3              | 2             | 40   | 22.5              |
| 1             | 5    | 55.4              | 3             | —    | 20.0              |
| 1             | 6    | 54.5              | 3             | 30   | 17.1              |
| 1             | 7    | 53.7              | 4             | —    | 15.0              |
| 1             | 8    | 52.9              | 5             | —    | 12.0              |
| 1             | 9    | 52.2              | 6             | —    | 10.0              |
| 1             | 10   | 51.4              | 7             | —    | 8.6               |
| 1             | 12   | 50.0              | 8             | —    | 7.5               |
| 1             | 14   | 48.6              | 9             | —    | 6.7               |
| 1             | 16   | 47.4              | 10            | —    | 6.0               |