NORTHERN PACIFIC RAILWAY COMPANY

Lake Superior Division

Special Instructions No. 11

In Effect at 12:01 A. M. Central Standard Time

Tuesday, January 1, 1952

These instructions constitute a part of the Time Table currently in effect.

Employes whose duties are in any way affected by the Time Table must have a copy of The Current Special Instructions and Current Time Table with them on duty.

> W. C. SMITH, Superintendent.

C. H. BURGESS, General Manager.

R. E. MATTSON, General Superintendent of Transportation.

ALL SUBDIVISIONS.

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	67	Dastrickions
4.	Speed	Restrictions-

The above speeds are subject to the restrictions of maximum speeds in miles per hour as shown by zones under each subdivision. Where automatic block and interlocking rules and signal indica-

tions require movement at restricted speed, such movement must be made prepared to stop short of train, obstruction or switch not properly lined and be on lookout for broken rail or anything that may require the speed of a train to be reduced, but a speed of

15 MPH must not be exceeded.

Diesel-electric engines-

The definition of Restricted Speed, as designated on page 8 of the 1945 Edition of the Consolidated Code of Operating Rules, will continue to apply except where automatic block and interlocking

rules and signals govern as specified above.

Reduce speed limits, within the zones listed, are designated by Advance-warning signs (diagonally upwards), Reduce speed signs (square with clipped corners) and Resume speed signs (vertical).

The Advance-warning signs are, except as otherwise specified, located approximately 3000 feet in advance of the Reduce speed signs, and the numerals on both signs indicate in miles per hour the maximum speed permitted from the Reduce speed sign to another Reduce speed limit, or to a sign indicating a higher speed, or to a Resume speed sign.

If speeds authorized by zones or by Reduce speed signs are greater than that prescribed below for certain trains or engines, such trains or engines must not exceed the prescribed speeds.

Locations where reduced speeds are required, but not indicated by signs, are listed under the zones of maximum speeds permitted for each subdivision.

All trains and engines, except as otherwise specified:

Through crossovers, turnouts and gant except where fixed signals provide othe Handling steam wrecking cranes, pile of	erwise	15 MPH.
locomotive cranes and similar equipme		_30 MPH.
Handling 4-wheel scale test cars Main		
and scale test car 251	h Lines	25 MPH.
Picking up train orders from operator	a	30 MPH.
Ficking up train orders from operator		ARTHUR DOCUMENTS DOCUMENTS
Engines—	Handling	Running
Člasses—	trains	light
All A and Q (except on passenger		60 MPH.
trains where higher speed is authorized)	60 MPH.	
Z6, Z-7 and Z-8	60 MPH	50 MPH.
Z-5, Y, Y-1, Y-3	40 MPH	35 MPH.
	or Mou	
Z-3, Z-4	ou MIII.	AF MOUT
S-4, T, T-1, W to W-5 inc., Y-2	bu MPH.	45 MPH.
Steam switch engines, without engine	20.2	
trucks, under all conditions	15 MPH.	15 MPH.
All other steam engines, backing up	30 MPH.	30 MPH.
(This restriction does not apply who		
helpers not on head end of train.)		
merpers not on mead end or training		

	CDC1 CICCUITO ONG	C-000000000000000000000000000000000000	2019/04/200	26.5 (0.000) (0.000) (0.000)	
	No. 9835	MPH.	35	MPH.	
	400 and 600 series45	MPH.	45	MPH.	
	No. 52560	MPH.	60	MPH.	
	100, 700 and 800 series60	MPH.	60	MPH.	
	Nos. 500, 501, and 552-555 incl65	MPH.	65	MPH.	
	5400 and 6000 series65	MPH.	65	MPH.	
	Nos. 550-55175		65	MPH.	
	6500 and 6600 series75	MPH.	65	MPH.	
-	esel-electric and gas-electric motor cars,			STANCTON GU	
	Cars B-3, B-12 and B-13		.55	MPH.	
	Cars B-6, B-11 and B-14 to B-26 incl		.65	MPH.	

Cars B-6, B-11 and B-14 to B-26 incl	8 B-3, B-12 and B-1355 MPH.
All A and Q and classes Z-6, Z-7 and Z-8	8 B-6, B-11 and B-14 to B-26 incl
S-4, T, T-1, W to W-5 inc., Y-2, Z-5	from shops, under steam, to prevent running hot:
S-4, T, T-1, W to W-5 inc., Y-2, Z-5	A and Q and classes Z-6, Z-7 and Z-850 MPH.
Y, Y-1, Y-3	T, T-1, W to W-5 inc., Y-2, Z-535 MPH.
Z-3, Z-425 MPI	Y-1, Y-330 MPH.
	Z-425 MPH.

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Main Line-With main and side rods removed:	
All A and Q and classes Z-6, Z-7 and Z-830	MPH.
All A and Q and classes Z-6, Z-7 and Z-8	MPH.

With	main	rods	removed	and	side	rods	in	place:	
		various/Silveran				077107107			

The state of the s	
All A and Q and classes Z-6, Z-7 and Z-835	MPH
Z-5, S-4, T, T-1, W to W-5 inc., Y to Y-3 inc., 30	MPH
Z-3, Z-425	MPH

Branch Lines—With either or both main and side rods removed:

All A and Q classes ________25 MPH.

All other classes _______20 MPH.

On bridges—With either or both main and side rods removed:

In the event the above speeds are in excess of 50% of the permissible speed for operating the engine in working order over any bridge carrying speed restrictions, speed on such bridges shall be 50% of the permissible speed for engine in working order.

Dead engines going to shops or being transferred from one district to another with all rods up or in place, the piston rod parted from the crosshead and removed and the valve motion disconnected and blocked, may be moved in trains at not to exceed the permissible speed of freight trains operating in the territory over which the engines are to be moved, or the operating speed restriction for track or bridges for that class of engine, whichever is the lower.

Engines handled in this manner when coming from shops must not exceed the operating speeds specified for engines coming from shops under steam.

Diesel-electric engines may be handled dead in trains at not to exceed the authorized operating speed specified for such engines.

Bridge or other restrictions must be observed for these engines the same as when in operating condition.

Single and Double Headers; operation—track and bridges—general.

Where there are no governing restrictions specified for double headers in the special instructions for each subdivision, they will be governed by the most restrictive instructions applicable to a single engine when of the same class and to the heavier engine when of different classes.

Where double header restrictions are specified, double headers of different classes of engines will be governed by the restrictions applicable to double headers of the heavier class.

When necessary to doublehead a diesel-electric engine with a steam engine, except in case of emergency, the steam engine must be placed behind the diesel engine.

When handling diesel-electric single unit road switcher or switch engines dead in freight trains, they shall be separated from the road engine and each other by at least one freight car. This does not apply to diesel-electric engines of two or more units.

Diesel engines—Except as otherwise provided, diesel-electric engines specified in Item 1 may be operated over bridges under the same restrictions shown for Class T engines.

To avoid possibility of fire or damage to traction motors, dieselelectric engines must not be permitted to pass over or to stand on cinder pits containing live fire or hot cinders.

Under no circumstances should diesel-electric engines pass through water which is deep enough to touch the bottom of the traction motor frame. When passing through water, movement must always be at very slow speed (2 to 3 MPH).

Where diesel-electric multiple-unit engines are used to handle main line through passenger trains making few or no stops, the fireman will remain in the cab at all times while the train is in motion.

Where multiple-unit diesel-electric engines are used in freight service, both the fireman and the head brakeman shall not be absent at the same time from the leading cab while the train is under way on main track between stations.

Wrecking cranes—250 tons, 45 to 48 inc. must not be coupled directly to engine or tender of engines Classes A-2 to A-5 inc. or Z-5 to Z-8 inc., but must be separated from them by at least two cars of not over 169,000 pounds total weight, for movement over bridges.

3. Use of Mars headlight on engines so equipped—
The Mars headlight can be displayed with either stationary or oscillating white light at the same time that the standard head-

light is in use, but cannot be displayed with either stationary or oscillating red light when the standard headlight is in use.

The Mars white light may be used in a stationary position as a substitute headlight in case of failure of the standard headlight, but will normally be used as an oscillating light during the time full display of standard headlight is required.

The Mars oscillating red light will be used when head end protection is required, either by day or by night by engineer control, if the train becomes disabled or is stopped suddenly due to unusual occurrence with the possibility of an adjacent track being obstructed, or if it overruns the clearance point at a meeting or waiting point, or at the end of double track or at a junction, or in any other emergency situation.

The engineer of an approaching train, finding oscillating red light displayed, must stop and then be governed by conditions existing. If on an adjacent track which he finds unobstructed and safe for operation, he may proceed at restricted speed until the standing train displaying the oscillating red light has been passed.

The Mars red light shall be displayed in stationary position when a train is occupying the main track at a meeting point with an opposing train until the headlight of the opposing train has been dimmed, per Rule 17(B), after which the red headlight shall be extinguished, and the standard white headlight turned on dim until opposing train is into clear on siding.

The use of the red headlight does not in any manner relieve the train or engine men of responsibility for compliance with the provisions of Rules 99 and 102.

- 4. Lights will not be displayed by night on train order signals on the 4th, 5th, 7th, 8th and 9th subdivisions.

 Trains will be governed by the day indication of these train order signals.
- 5. Rule D-97 applies to all divisions.
- 6. Except in case of fog, storms, or otherwise bad weather, yellow signals may be used, without flagmen, when placed as prescribed by Rule 10(h) to indicate approach to a red signal on the 4th, 5th, 7th, 8th and 9th subdivisions and also in special cases authorized by the Superintendent and protected by train order.
- 7. Rule 606: Emergency Signals are not used at interlockings or drawbridges operated by the Northern Pacific Railway.
- 8. Test of hand brakes of gas-electric or diesel-electric motor cars must be made once each trip. If crew has charge of moving car prior to leaving initial station, test will be made during such movement; otherwise, as soon as possible after leaving initial station. On cars equipped with "Deadman's Control", conductor and engineer will cooperate in making test.
- 9. Cars will not be handled behind light-weight observation cars except in emergency or when so authorized by the Superintendent. In such cases passengers shall not be permitted to pass between such cars while train is in motion due to the unprotected opening.

Gas-electric or diesel-electric motor cars, when handled dead in freight trains, must be behind caboose.

4-wheel scale test cars and scale test car 251 must be handled only in local freight trains. All scale test cars must be placed immediately ahead of caboose.

Cranes or similar machines geared for self-propulsion moving on commercial billing, must not be handled in time freight trains. When handling pile driver 25, it must be coupled to either the regular tender or a flat or gondola car with open end next to cab end of pile driver to provide proper clearance.

Open cars loaded with material which may shift, such as poles, pipe, timbers, etc., shall not be placed immediately next to diesel-electric engines nor to cabooses in trains.

- 10. Precautions must be taken on double track to prevent accidents from swinging doors or other loose construction attached to cars or engines. Trains handling logs must stop when being met or passed by passenger trains.
- Electric Switch Locks—To operate the lock, unlock and open the door:
 - (a) If indicator shows proceed, turn lock handle to the left

until it rests on stop block. Then line the switch in the usual manner and movement may be made at once.

- (b) If indicator shows stop, and no conflicting train movement is evident, unlock the time release box and push the button which starts the time release. After three minutes indicator will normally show proceed then turn the lock handle to the left and line the switch.
- (c) After final movement over the switch is made: Restore and lock switch in normal position. Turn the electric lock handle to the right until it rests on the stop block. Close and lock the door of the electric lock.
- (d) Exception: If the electric lock is equipped with a wire seal emergency release, located at the left of the indicator, the seal must not be broken until after the time release has been operated and the electric lock fails to show

When emergency release is used, there must be a wait of three minutes before switch is lined for movement. After emergency release seal has been broken, immediately notify the train dispatcher so he may call the signal maintainer to reset the emergency release, as the signals will remain at stop until repairs are made.

12. Spring Switches—
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.

Signal operation at spring switches equipped for switch key operation—The normal indication of main track signal is Proceed. The normal indication of siding signal is Stop. To clear the siding signal when train is ready to enter main track, insert switch key in control box and turn to right. If route is clear the siding signal will immediately clear.

If siding signal does not clear by switch key operation, open release box and push the button which will put the time release mechanism into operation. After time release has operated, the siding signal will clear if there is no conflicting train movement. The release box door must be left open until leading wheels of train on the siding have passed the siding signal, then close and lock the release box door. If the siding signal has been cleared and train on the siding is not ready to depart, if necessary to clear signals for a main track movement, open the release box door and push the button which will start the time release mechanism. After the time release mechanism has started to operate, close and lock the release box door.

When a train, light engine or any piece of equipment moves through a spring switch in such a manner as to throw the points, the conductor or a member of the crew shall observe if the signal governing movements in the opposite direction moves to the approach or the proceed position. If it remains in the stop position and there are no other train movements in evidence that would cause it to remain in that position, the dispatcher shall be notified from the nearest open telegraph office that the signal remained in the stop position and also, when practicable, the first opposing train cautioned.

- 13. Pusher engines must not push on cabooses not equipped with steel sills.
- 14. Bulletin Stations-

and Roundhouse.

Ashland—Soo Line Passenger Station.
Duluth—Union Depot, Rices Point Yard and Roundhouse,
Soo Line Passenger Station.
Superior—Soo Line Yard and Roundhouse.
Carlton—Passenger Station and Roundhouse.
Ironton—Passenger Station.
Brainerd—Passenger Station and Roundhouse.
North Bemidji—Yard Office and Roundhouse.
International Falls—Passenger Station and Roundhouse.
Staples—Passenger Station, Yard and Roundhouse.
Hinckley—Passenger Station.
White Bear Lake—Passenger Station.
St. Paul—Miss. St. Yard and Roundhouse, CMStP&P Yard

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Train and Engine men from St. Paul and Minneapolis without access to bulletins at those points will check bulletins at White Bear Lake.

15. Standard Time Clocks-

Duluth-Union Depot, Rices Point Yard Office and Round

Carlton-Passenger Station.

Brainerd—Passenger Station.
North Bemidji—Yard Office.
International Falls—Passenger Station.
Staples—Passenger Station, Round House and Yard Office.

Hinckley-Passenger Station. Rush City-Passenger Station.

White Bear Lake-Passenger Station.

Watch Inspectors—

Bemidji-E. A. Barker; Willis Norden.

Brainerd—R. A. Ashmun.
Cloquet—T. W. Alaspa.
Duluth—Kanter Jewelers, 325 W. Superior. Erwin Moen, 1908 W. Superior. Nold Jewelers, 414 N. Central. H. W. Schmidt, 402 W. Superior. Harlan Wells, 208 W. 1st St. Hinckley-J. J. Gulbranson.

International Falls—J. A. Sher. Staples—Imgrund's Jewelry; C. E. LaBonte. Superior—Peters' Jewelry, 1126 Tower Ave.

FIRST SUBDIVISION.

(MAIN LINE)

Control of the Contro		m Spee Freigh nd Mix	t Pas	
	Ashland and Allouez	35		40
	Except, MP 12 (west of Moquah) and Allouez on curves	25		25
	Trains handling loaded ore cars	20		
	Trains handling ore loaded in other than ore cars	25		02
	All trains and engines, 7th Ave. West to between MP 0 and 2. Ashland	22nd	Ave. 10	West, MPH.

2. Bridge and Engine Restrictions:

N. P. engines classes Q-5 and W-3 and heavier, and Soo Line engines classes N-20, L-3 and heavier, not permitted east of Allouez. Soo Line engines class L-4 are permitted.

Double header Soo Line engines classes L-2 and heavier not

permitted.

Wrecking cranes, 250 tons or heavier, 45, 46, 47 and 48 not

permitted.

Bridge 0, Vaughn Avenue:

Bridge 5, Fish River:

Bridge 49, Middle River:

All trains _____25 MPH.

Bridge 37, Brule River:

Double header engines25 MPH.

Bridge 48, Poplar River:

Bridge 53, Amnicon River:

Single header Soo Line engines Class L-2 and L-4 and double header DSS&A diesel engines25 MPH.

Heavy Car Restrictions: Cars with total weight exceeding 214,000 pounds not permitted. Cars less than 30 ft. long with total weight of 170,000 to 214,000 pounds must be separated from each other and from engine or tender with an empty car; cars 30 ft. or more long with total weight exceeding 169,000 pounds must be separated from engine or tender, with a car 40 ft. long with total weight not over 169,000 pounds.

8. At Ashland-Normal position of main track switch just east of Seventh Ave., leading to the Soo Line, is for the Soo Line

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. Between Allouez and Duluth, Duluth and Superior Terminals instructions govern.

Yard Limits-Tracks between yard limit signs west of East End and east of Allouez.

6. Register Stations-

Central Avenue.

East End.

Ashland, Soo Line Station.

Superior, Soo Line 21st Street Yard Office, for DSS&A

7. Clearance Exceptions-

At Allouez—Trains originating secure clearance at Central Avenue, or Soo Line 21st Street Yard Office.

SECOND SUBDIVISION. (MAIN LINE)

1.	Speed Restrictions— Maximum Speeds Permitted Zone—Between Freight and Mixed Passenger
	Central Ave and Anton 50 65
	State Line and MP 20 (Barker) 50 60
	Anton and State Line (both tracks) 50 60 State Line and MP 20 (Barker) 50 60 MP 20 and MP 28 (Carlton) 50 65 MP 28 and MP 148 (Staples) 45 55
	Trains handling loaded ore cars40 MPH.
	At Brainerd, over public crossings10 MPH. First class trains—
5) E	Between east switch of north siding (east of car shop) and St. Paul Division connection at 8th St20 MPH.
	Between St. Paul Division connection and 8th
	Subdivision Jct
	At Aitkin, through village30 MPH. At Carlton, over double-slip switch within interlocking;
	through movements via Second Subdivision30 MPH.
	Other movements15 MPH.
2.	Bridge and Engine Restrictions-
	Between Central Ave. and Brainerd: Engines classes A-2 to A-5 inc. and Z-5 to Z-8 inc., not permitted.
	Wrecking cranes, 250 tons or heavier, 45, 46, 47 and 48
	Bridge 9 just west of Central Avenue20 MPH.
	Avoid using automatic brakes on bridge, except in emergency. Bridge 119, Mississippi River:
	Double headers, engines class Z-5 not permitted.
	Single headers, engines class Z-5
	Z-6 and heavier 5 MPH.
	Single headers, engines classes A-2 and heavier and Z-6 and heavier, except Z-510 MPH.
	Wrecking cranes, 250 tons or heavier,
	45 to 48 inc
	At Brainerd—
	Engines classes A- to A-5 inc. and heavier not permitted on east leg of St. Paul Division wye.
	Engines classes W and heavier not permitted on west end of
	tracks 13, 14, 15, 16 and 17.
	Engines heavier than classes L-9 and L-10 not permitted on beer track, east end dump track, west end of No. 2 and No. 4 lumber tracks and the roundhouse oil house track.
	Engines classes W-3 and heavier not permitted on following tracks:
	Wrenshall, brick yard and refinery tracks.
	Zenith, gravel pit spur. Aitkin, power house spur, and hole track beyond First St.

Motley, north spur.

3. At Carlton—Eastward freight trains and light engines from the Second Subdivision will head in on North Siding, unless otherwise instructed. Such trains will report by telephone, from west end of yard, the time their train is into clear.

Westward trains, yard engines or branch trains will not use north siding without permission from the train dispatcher.

No train order signal maintained.

At Interlocking-Trains will call for route as follows:

Second to Second "East & West":	00 & 00.
Second to Third "East & West":	00 & 000.
Second to Loop Track "West":	00 & 0000.
Second to 5th Subdivision "East":	00 & 0000.
Third to Third "East and West":	000 & 000.
Third to Second "East and West":	000 & 00.
Third to Loop Track "West":	000 & 0000.
Third to 5th Subdivision "East":	0000 & 0000.
Fifth to Second "West":	0000 & 00.
Fifth to Third "West":	0000 & 000.
Fifth to Loop Track:	0000 & 0000.
Loop Track to Second "East":	0000 & 00.
Loop Track to Third "East":	0000 & 000.
	0000 & 0000.
Lower yard lead to Second Subdiv. "East an	d West": —o.
No. 9 Lead through Interlocking "East and V	Vest": —

4. At McGregor-

At Interlocking—Trains will call for route as follows:

For Northern Pacific and Soo Line main tracks:

From Northern Pacific and Soo Line to West wye:

From Northern Pacific and Soo Line to East wye:

Between Interchange Track and West wye:

To Coal Dock Track:

OO—

 At Brainerd—St. Paul Division trains must stop before fouling Lake Superior Division main track.

St. Paul Division first class trains head in on inside track at passenger station.

Connection with 8th Subdivision is governed by automatic block signals.

- 6. At Staples Interlocking—Trains which may be unable to start at home signal may pass signal 1459 only when lower arm indicates Proceed, and must then proceed at slow speed. If such indication is not secured, use telephone and then proceed at restricted speed on instructions from towerman.
- 7. At Staples, St. Paul Division instructions govern.
- 8. Sidings-

McGregor, siding east of passenger station is westward siding. Siding west of passenger station is eastward siding. Aitkin, north siding is westward; south siding is eastward.

9. Spring Switches-

Anton, at end of double track, normal position for westward track, equipped with facing point lock.

Deerwood, at junction of Second and Fourth Subdivisions, one and three-fourths miles east of passenger station, normal position for Second Subdivision main track, equipped with facing point lock.

- 10. Pusher Districts-Duluth to Sawyer.
- 11. Retaining Valves—On freight trains handled by steam engines retaining valves must be used on grades Sawyer to Pokegama, handles to be turned up to low pressure (horizontal) 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 of 4000 tons or over—10 retainers.
Trains of less than 4000 tons—No retainers unless requested by engineman.

All retaining valves will be turned down where first stop is made, at either Pokegama, Central Ave. or Hill Ave.

On solid trains of ore, or trains consisting of a large percentage of ore, handled by steam engine, retaining valve handles must be turned up on one-fourth of the total number of cars in train. When engine has been cut off and recoupled, retaining valve handles will be turned down while brake pipe test is being made, then turned up again.

On solid trains of ore, or trains consisting of a large percentage of ore and handled by diesel-electric engines having dynamic brake in effective operating condition, retaining valve handles will be turned up on the first ten cars behind the engines. Cars having four-position direct release control retainers or converted type four-position retainers, handles to be turned up to direct release control position (diagonal upward). Cars having three-position retaining valves, handles to be turned up to low pressure (horizontal) position. Retaining valve handles to be turned down when stop is made at Pokegama, Central Ave., or Hill Ave.

On solid trains of ore, or trains consisting of a large percentage of ore, and handled by diesel-electric engines with dynamic brake inoperative on either unit, retaining valves will be handled the same as required for steam engines.

The feed valve will be adjusted and 90 pounds brake pipe pressure obtained prior to departure from Sawyer.

- 12. Register Stations— Central Avenue, Carlton, Staples.
- 13. Register Exceptions—At Central Ave. and Carlton trains register by Form 608.

A check of register on Form 602 may be issued by operator when authorized by train dispatcher, either instead of, or in addition to, train order check, at Central Ave., Carlton and Staples Interlocking.

At McGregor, for Soo Line trains entering, a check of the register, Form 602, may be issued by the operator when authorized by the train dispatcher as required, in addition to a previous train order check.

14. Clearance Exceptions-At Carlton, all trains secure clearance.

THIRD SUBDIVISION.

(MAIN LINE)

L.	Speed Restrictions— Zone—Between		um Speed Freight	ls Permitted
	West Duluth Jct. and MP 143	Ore	and	
	(between Short Line Park	Cars	Mixed	Passenger
	and West Duluth Jct.)	40	50	60
	MP 143 and MP 135 (Brownell)	25	25	45
	MP 135 and MP 129 (West end Carlton yard)	40	50	60
	MP 129 and MP 106 (2 miles west of Moose Lake)	40	50	70
	MP 106 and MP 94 (Rutledge)	40	50	65
	MP 94 and MP 36 (3 miles west of	5.		7 B B
	North Branch)	40	50	70
	MP 36 and MP 33 (Stacy)	40	50	60
	MP 33 and MP 23 (Forest Lake)	40	50	70
	MP 23 and White Bear Lake	40	50	60
	At Carlton, over double slip switch except through movements via Thir	within : d Subdi	interlocki vision	ing, 15 MPH.
	At Wyoming, engines using Tyra speastward siding			

Bridge and Engine Restrictions—
 Engines classes A-2 to A-5 inc. and Z-5 to Z-8 inc., not permitted.

- At West Duluth Jct.—Switch at end of double track is automatically operated dual control. Normal position is for westward track.
- 4. At Carlton-Second Subdivision instructions govern.

5. At Hinckley-Cars must not be left on No. 1 yard track. At Interlocking—trains will call for route as follows:

For Through Main Track Movement:

For Movement from Main Track to Sidings:

For Movement from Sidings to Main Track:

For Movement between yard and eastward siding:

6. At White Bear Lake-West switch of crossover to New Yard will be left lined for the lead, which is the normal position.

NP Ry and M&StL Ry Joint Terminal instructions govern.

7. Sidings-

Hinckley, siding east of Grind Stone River is westward siding: siding west of G. N. crossing is eastward siding.

Rush City, siding east of passenger station is westward siding, siding west of passenger station is eastward siding.

8. Pusher Districts-Duluth to Otter Creek.

 Retaining Valves—On freight trains retaining valves must be used on grades Brownell to MP 143. Handles to be turned up to low pressure (horizontal) position, beginning at head end of

Trains of 8000 tons or over-20 retainers.

Trains of 6000 tons or over-16 retainers.

Trains of 4000 tons or over-10 retainers.

Trains of less than 4000 tons—No retainers unless requested by engineman.

All retaining valves will be turned down between MP 143 and West Duluth Junction.

10. Register Stations-West Duluth, Carlton, White Bear Lake.

11. Register Exceptions-At West Duluth, Carlton and White Bear Lake trains register by

A check of register on Form 602 may be issued by operator when authorized by train dispatcher, either instead of, or in addition to, train order check, at West Duluth, Carlton and White Bear Lake.

12. Clearance Exceptions—
At West Duluth Junction: Trains originating secure clearance at West Duluth.

At Carlton: all trains secure clearance.

FOURTH SUBDIVISION. (CUYUNA NORTHERN BRANCH)

1. Speed Restrictions-Zone-Between

Maximum Speeds Permitted Freight Passenger and Mixed

Deerwood and Ironton 2. Bridge and Engine Restrictions—Engines heavier than Classes W-5 and Z-4 not permitted.

Trestles at Middleton and Armour Coal spurs, and bridge north of Sintering Plant, not safe for engines.

At Deerwood-Eastward trains use junction switch one and three-fourths miles east of passenger station; westward trains use crossover west of passenger station, unless otherwise authorized by train order.

Train order signal does not govern Fourth Subdivision trains.

- 4. At Ironton-Track must not be used beyond point 1,900 feet west of Trommald Jct.
- Spring Switches-Deerwood, at junction of Second and Fourth Subdivision main tracks, one and three fourths miles east of passenger station, normal position for Second Subdivision main track, equipped with facing point lock.
- 6. Register Stations-Ironton and Deerwood.
- Register Exceptions-At Deerwood, when operator on duty. trains will register by Form 608.

FIFTH SUBDIVISION.

(CLOQUET BRANCH)

•	Speed Restrictions-	Maximum Speeds Per	
	Zone—Between	Freight Pas and Mixed	senger
	Cloquet and MP 4 (west of Scanlon) MP 4 and Carlton) 15 30	15 30
	Carlton, over double-slip switches the Interlocking	hrough the	мрн.

Bridge and Engine Restrictions-Between Carlton and MP 4, engines heavier than Class W-5 not permitted; between MP 4 and Cloquet, engines heavier than Class W not permitted.

Wrecking cranes, 250 tons or heavier, 45 to 48 inc., not permitted.

At Cloquet, engines heavier than Class L-10 not permitted on following tracks:

Great Northern lead and trackage serving Burst-Forester-Dix industry.

D&NE interchange track.

Main track west of 2650 feet west of MP 6.

Trackage serving Northwest Paper Co. and Wood Conversion Co. industries except Wood Conversion Co. Yard No. 4.

Belt track.

West lead of Wood Conversion Co. Yard No. 4.

Team track.

D&NE connection at Broadway Street.

- 3. At Carlton-Second Subdivision instructions govern.
- At Cloquet—D.&N.E. engines may use main track between D.&N.E. connection at Broadway St. 200 feet east of passenger station and west end of yard.
- 5. Register Stations-Carlton and Cloquet.
- 6. Clearance Exceptions-

At Carlton all trains secure clearance.

At Cloquet trains will not require clearance.

SEVENTH SUBDIVISION.

(BULLHEAD LAKE BRANCH)

1. Speed Restrictions-Maximum Speeds Permitted Zone-Between Funkley and Kelliher 15 MPH.

2. Bridge and Engine Restrictions-

Engines classes Q-1, W and heavier, and wrecking cranes, 250 tons or heavier, 45 to 48 inc., not permitted. Heavy Car Restrictions, All Bridges.

Cars with total weight exceeding 214,000 pounds or cars less than 30 ft. long with total weight exceeding 169,000 pounds not permitted when coupled in groups or next to engine or tender. Cars 30 ft. or more long exceeding 169,000 pounds may be handled in groups, but must be separated from engine or tender with at least one car 40 ft. long with total weight not over 169,000 pounds.

3. Register Stations-Funkley

Kelliher

4. Clearance Exceptions-At Funkley: Westward trains will not require clearance.

EIGHTH SUBDIVISION.

(INTERNATIONAL FALLS BRANCH) (BRAINERD TO NORTH BEMIDJI)

1.	Speed Restrictions-	Maximum Speeds Per	rmitted
	Zone—Between	Freight Pas and Mixed	ssenger
	Brainerd and North Bemidji	40	50
	At Bemidji—Over public crossings at Carpenter Ave.	; 30	MPH.
	Mill Park	20	MPH.
	Skelly Oil		MPH.
	Other public crossings	15	MPH.

2. Bridge and Engine Restrictions-

Engines classes Q-5 and heavier and classes G-1 and G-2, and wrecking cranes, 250 tons or heavier, 45 to 48 inc., not permitted.

Heavy Car Restrictions:

Cars with total weight exceeding 214,000 pounds, not permitted, or cars less than 30 ft. long with total weight exceeding 169,000 pounds not permitted when coupled in groups or next to engine or tender. Cars more than 30 ft. long exceeding 169,000 pounds may be handled in groups, but must be separated from engine or tender with one car 40 ft. long with total weight not exceeding 169,000 pounds.

 At Brainerd—Connection with 2nd Subdivision is governed by automatic block signals.

The signal governing movements from the 8th to the 2nd Subdivision displays interlocking indication Rule (601A) 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.

Trains will be governed by Second Subdivision Time Table.

Train order signal does not govern Eighth Subdivision trains.

4. At Bemidji Tower—Trains will call for routes as follows:

For Through Main Track Movement—4 Long. For East Leg of Wye in and out of Bemidji—2 Long.

Interlocking at crossing over GN and Soo Line tracks is unattended between the hours of 4:00 AM and 8:00 AM and 4:00 PM and 8:00 PM, daily. During these hours routes will be set for the GN and Soo Line. Home Signals will be set to display proceed indication for those routes, but should a stop indication be displayed, movement through the interlocking must be made in accordance with Operating Rule 671.

If NP movement is necessary during closed hours, notify Trainmaster sufficiently in advance to call towerman.

5. At Bemidji—The wye switch on the Bemidji Branch will be in normal position when lined for the east leg of the wye.

6. Exclusive Sidings At-

Pequot Lake Pine River Backus Walker

Must not be blocked with cars except on authority of trainmaster, except in case of emergency and then must be reported at first open telegraph office.

7. Register Stations-

Brainerd

North Bemidji

8. Register Exceptions—Eastward trains secure from the telegraph office at Brainerd by telephone check of register covering first class trains.

NINTH SUBDIVISION.

(INTERNATIONAL FALLS BRANCH)

(NORTH BEMIDJI TO INTERNATIONAL FALLS)

1. Speed Restrictions— Maximum Speeds Permitted
Freight Passenger
and Mixed

 Bridge and Engine Restrictions— Engines classes G-1, G-2, Q-5 and heavier, W-3 and heavier, and wrecking cranes, 250 tons or heavier, 45 to 48 inc., not permitted.

Double header engines Classes W, W-1, W-2 and W-4 not permitted.

Heavy Car Restrictions, All Bridges: Cars with total weight exceeding 214,000 pounds not permitted. Cars with total weight exceeding 169,000 pounds must be separated from each other and from engine or tender with two cars 40 ft. long with total weight not over 169,000 pounds.

- At Blackduck—Spur 118-07, Carney's Spur, must not be used beyond 650 feet from switch.
- At Big Falls—Tail of wye must not be used beyond 1,195 feet from switch. Blandin Paper Co. tracks may be used for switching cars to or from temporary pulpwood platform.
- At Waukanha—Spur track must not be used beyond 720 feet from switch.
- At Happyland—Spur track must not be used beyond 630 feet from switch.
- At Little Fork—The time of first class trains and passenger extras applies at the passenger station.
- At International Falls—On K and S tracks all movements across Sixth Street must be protected.
- Exclusive Sidings At— Little Fork, the River Track is the siding and must not be blocked with cars except on authority of trainmaster, except in case of emergency and then must be reported at first open telegraph office.
- Register Stations—
 North Bemidji, International Falls.
- 11. Clearance Exceptions-

At Funkley:

Trains originating will not require clearance.

TONNAGE RATING

Subdivis	lon	District	-c _{eq}	Class	of En	gines
	g ===	a T		т	w	W-3 W-5
Ti A Ti A A A		Central Ave. to River		1200	1650	
First Eastward		Iron River to Ashland		1350	1850	
First Westward		Ashland to Cer Ave		1100	1500	
En Service Services	IR	Staples to Brai	nerd.	3500	5400	8500
Second Eastward		Brainerd to Deer	wood.	2650	4200	6000
un, ilem 17 (kg)		Deerwood to Co			5000	8500
	2 50 0 100	Duluth to Saw	yer	1150	1600	2600
Second Westward		Sawyer to Brai	nerd.	2300	3500	5200
		Brainerd to Sta	ples.	2800	4000	5900
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	White Bear La Hinckley		2250	3450	4000
Third Eastward		Hinckley to Groningen		2150	3100	3700
		Groningen to Carlton		2800	3900	5800
	al more constitution	Carlton to Dul	uth	2600	3500	5200
Third Westward.	g .	Duluth to Carl	ton	950	1300	1800
Inita Westward.		Carlton to Hin	ckley	2300	3700	5400
a naga ka		Hinckley to Bear Lake		2600	3900	5900
	composition		Q-1	T	w	8.0
	No. Bemid	ji to Brainerd	2500	2700	3780	
Eighth Eastward	(Helper to No. Bemid	Hackensack) ji to Hackensack	1670	1800	2510	
Eighth Westward	Brainerd t	o No. Bemidji	1530	1650	2310	
Ninth Eastward.	Internation Funkley Funkley to	nal Falls to No. Bemidji	1575 2500	1700 2700	2380 3780	
Ninth Westward	Northome	ji to Northome. to ional Falls	1730 2500	1900 2700	2660 3780	

This rating is made to govern ruling grades only, and will in no manner interfere with handling additional tonnage where grades will permit.

MAXIMUM CLEARANCES.

	8 8			LIMIT	OF LO	LIMIT OF LOAD MEASUREMENT.	ASURE	TENT.				
					Height ,	Height Above Top of Rail.	op of Re	11.			10	Governing Structure
	1 ft. Wide	2 ft. Wide	3 ft. Wide	4 ft. Wide	5 ft. Wide	6 ft. Wide	7 ft. Wide	7 ft. 6 in. Wide	8 ft. Wide	Max. Hgt.	Max. Wth.	
1st Sub-division, Askland to Allouez	20, 6"	20' 6"	20' 6"	20' 6"	20, 6,,	20, 6"	20′ 6′′	20' 6"	20' 6"	20' 6"	11' 6"	# 5
2nd Subdivision, Duluth to Staples 20' 6"		20, 6,,	20' 6"	20′ 6″	20' 6"	20' 6"	20′ 6″	20′ 6″	20' 6"	20' 6"	11' 6"	11' 6" St. Louis Bay Bridge
3rd Sub-division, Duluth to White Bear Lake 20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20′ 6″	20' 6"	20′ 6″	20′ 6″	20' 6"	20' 6"	11, 6"	
4th Sub-division, Deerwood to Ironton 20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20, 6"	20' 6"	20' 6"	11′ 6″	
5th Sub-division, Carlton to Cloquet	20, 6"	20′ 6″	20' 6"	20′ 6″	20' 6"	20' 6"	20′ 6″	20' 6"	20' 6"	20' 6"	11′ 6″	
(Brainerd to Big Falls	20′ 6″	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20′ 6″	20' 6"	20' 6"	20' 6"	11′ 6″	
Sub-divisions Big Falls to International Falls.	19′ 3″	19' 3"	19′ 3″	19′ 3″	19' 0"	18′ 10″	18' 10" 18' 7"	18′ 6″	18' 4"	19' 3"	11′ 6″	11' 6" Big Fork & Little Fork River Bridges

MAXIMUM CLEARANCES.

			TIM	IT OF L	LIMIT OF LOAD MEASUREMENT.	ASUREM	ENT.			
	X.			Height	Height Above Top of Rail.	p of Rail.				Governing Structure
	8 ft. 6 in. Wide	9 ft. Wide	9 ft. 6 in. Wide	10 ft. Wide	10 ft. 6 in. Wide	11 ft. Wide	11 ft. 6 in. Wide	Max. Hgt.	Max. Wth.	
1st Sub-division, Ashland to Allouez	20′ 6″	20, 6,,	20, 6,,	20' 6"	20, 6,,	20, 6"	20' 6"	20' 6"	11, 6"	F 0
2nd Sub-division, Duluth to Staples	20′ 6″	20' 6"	20' 6"	20′ 6″	20, 6,,	20' 6"	20' 4"	20' 6"	11, 6,,	St. Louis Bay Bridge
3rd Sub-division, Duluth to White Bear Lake	20, 6,,	20, 6,,	20, 6,,	20' 6"	20, 6,,	20, 6"	20, 6,,	20, 6,,	11' 6"	
4th Sub-division, Deerwood to Ironton	20, 6"	20, 6,,	20, 6,,	20′ 6″	20′ 6″	20, 6,,	20, 6"	20' 6"	11, 6"	
5th Sub-division, Carlton to Cloquet	20, 6"	20, 6,,	20' 6"	20' 6"	20' 6"	20' 6"	20, 6,,	20, 6,,	11' 6"	5 7 78
(Brainerd to Big Falls	20, 6,,	20' 6"	20, 6,,	20′ 6″	20′ 6″	20, 6,,	20, 6,,	20' 6"	11, 6,,	
Sub-divisions, Big Falls to International Falls.	18' 2"	17' 11"	17' 9"	17' 6"	17' 3"	17' 0"	16′ 9″	19′ 3″	11' 6"	Big Fork and Little Fork River Bridges

E. J. WIGG, Chief Dispatcher. Note:-Limit of load measurements based on 52' cars with 42' truck centers. Heights and widths in table allow 6 inches clearance. Table is based on open car loading equally divided on either side of center line of car. M. R. SMITH,
Trainmaster-Roadmaster. C. B. WOLF, Trainmaster.

G. M. HARE, Asst. Superintendent.

N. M. LORENTZSEN,
Terminal Trainmaster.
C. W. THOMPSON,
Trainmaster.