

# NORTHERN PACIFIC RAILWAY COMPANY.

**DULUTH AND SUPERIOR TERMINALS**

# TIME **101** TABLE

**In Effect at 12:01 A. M. Central or 90th Meridian Time.**

**SUNDAY NOVEMBER 19, 1922.**

**For the Government of Employes only. The Company reserves the right to vary therefrom at pleasure. Be positive that you have the Current Time Table and destroy all previous numbers. Read carefully the Special Instructions and always have for reference a copy of TRANSPORTATION RULES.**

**C. L. NICHOLS,**  
General Manager.

**NEWMAN KLINE,**  
General Superintendent.

**W. H. STRACHAN,**  
Superintendent.

**P. H. MCCAULEY,**  
General Superintendent of Transportation.

WESTWARD

FIRST SUB-DIVISION  
(DULUTH AND SUPERIOR TERMINAL)

FIRST CLASS															TIME TABLE No. 101		FIRST CLASS										SECON		
															Sunday, November 19, 1922. Succeeding No. 100.												CLASS		
403	401	181	55	201	53	185	61	305	189	63	193	51	203	71	STATIONS		191	303	205	57	65	405	407	409	411	627			
D. & I. R. 2	D. & I. R. 50	N. P. 181	N. P. 55	D. M. & N. 1	N. P. 54	N. P. 185	N. P. 61	D. W. & P. 5	N. P. 189	N. P. 63	N. P. 193	N. P. 52	D. M. & N. 3	N. P. 71	D. & I. R. JCT.		N. P. 191	D. W. & P. 19	D. M. & N. 5	N. P. 57	N. P. 65	D. & I. R. 52	D. & I. R. 4	D. & I. R. 60	D. & I. R. 162	N. P. 627			
Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Telegraph Offices and Calls		Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Pass'gr	Freight	
Ex. Sun.	Daily	Ex. Sun.	Daily	Daily	Daily	Sun. only	Ex. Sun.	Daily	Ex. Sun.	Daily	Ex. Sun.	Daily	Daily	Daily			Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	Daily	Sun. only	Daily		
AM	AM	AM	AM	AM	AM	AM	AM	AM	PM	PM	PM	PM	PM	PM	0.0	D. & I. R. JCT.		15.1											
L 11:56	L 6:50														0.9	DULUTH		14.2	Yard	L 5:25		L 7:58	L 7:30	L 11:30	A 2:40	A 5:15	A 11:10	A 9:00	L 8:00
															1.9	GARFIELD AVE.		13.2		5:28	L 7:09	8:01	A 7:34	11:34					8:07
															2.2	20TH AVE.		12.9		5:29	7:10	8:02		11:35					8:09
															2.8	D. M. & N. JCT.		12.3		5:31	7:12	A 8:04		11:37					8:16
															3.6	SOO LINE CROSSING Interlocked.		11.5											
															4.4	C. N. JCT.		10.7		5:36	A 7:16			11:43					8:27
															5.1	WEST DULUTH		10.0		5:38				11:46					8:31
															5.9	WEST DULUTH JCT.		9.2		5:41				11:50					8:35
															7.0	D. T. CROSSING		8.1											
															8.1	RIVERSIDE		7.0		5:48									
															8.6	SPIRIT LAKE		6.6		5:49									
															9.7	MORGAN PARK Minn. Steel Co. Crossing.		5.4		5:53									
															10.7	BOAT CLUB		4.4		5:56									
															12.4	NEW DULUTH		2.7		6:01									
															15.1	FOND DU LAC		0.0		6:09									
PM	AM	AM	AM	AM	AM	AM	AM	AM	AM	PM	PM	PM	PM	PM															
Ex. Sun.	Daily	Ex. Sun.	Daily	Daily	Daily	Sun. only	Ex. Sun.	Daily	Ex. Sun.	Daily	Ex. Sun.	Daily	Daily	Daily															
.04	.05	.59	.04	.06	.04	.46	.17	.07	.48	.15	.15	.04	.05	.18		Time Over Sub-Division				.44	.07	.06	.04	.26	.05	.04	.05	.04	.35
13.5	10.8	14.4	16.0	19.0	15.0	18.5	17.6	21.4	17.7	20.0	20.0	15.0	22.8	16.6		Average Speed Per Hour				19.3	21.4	19.0	15.0	15.0	10.8	13.5	10.8	13.5	8.5

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.  
DOUBLE TRACK BETWEEN DULUTH AND WEST DULUTH JUNCTION.

SPECIAL INSTRUCTIONS PAGE 6.

REGISTER STATIONS: First class trains and passenger extras will register at Duluth Union Depot, West Duluth, and Fond du Lac. Second and third class trains and extras will register at Rices Point yard office, West Duluth, and Fond du Lac.

BULLETIN STATIONS: Duluth Union Depot and Rices Point yard office.

STANDARD CLOCKS: Dispatcher's office Duluth Union Depot, and Rices Point yard office.

YARD LIMITS: Duluth yard extends from connection with D. & I. R. Ry., at Fifth Ave. East, to the easterly end of the St. Louis River bridge, and from Garfield Avenue to the yard limit sign on the Third Sub-Division main line west of West Duluth Junction, and to Grassy Point bridge.

BRIDGE RESTRICTIONS: Duluth to Fond du Lac no restrictions. Great Northern Power Co. track. Speed will be restricted on all bridges for S, S1, S3, S4 and S10 to eight (8) miles per hour. Engine class T and heavier will not be permitted.

Junction switches at Garfield Avenue will be kept set for First Sub-Division.

Track between Fond du Lac and Power Plant will not be used except by authority of train orders.

Switch engines will use west leg of wye at West Duluth Junction and the Fond du Lac main line between West Duluth Junction and yard limit board for switching purposes, but will not leave cars on these tracks. All trains will look out for switch engines working in these limits.

FIRST SUB-DIVISION. (DULUTH AND SUPERIOR TERMINAL)

EASTWARD

Table with columns for train numbers (402, 400, 66, 180, 58, 304, 184, 202, 72, 52, 62, 188, 192, 204, 306), stations (D & I. R. JCT., DULUTH, GARFIELD AVE., 20TH AVE., D. M. & N. JCT., SOO LINE CROSSING., C. N. JCT., WEST DULUTH JCT., D. T. CROSSING., RIVERSIDE, SPIRIT LAKE, MORGAN PARK, BOAT CLUB, NEW DULUTH, FOND DU LAC), and arrival/departure times. Includes a 'TIME TABLE No 101' header and 'STATIONS' section.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION. DOUBLE TRACK BETWEEN DULUTH AND WEST DULUTH JUNCTION.

SPECIAL INSTRUCTIONS PAGE 6.

Switches at end of double track West Duluth Junction will be kept set and locked for eastward trains from Third Sub-Division main line. Main line switch near Fifth Avenue West leading into Union Depot for use of D. & I. R. Ry. passenger trains, will be kept set and locked for main track.

No. 64 and No. 627 will register at West Duluth by ticket.

Eastward second class and inferior trains from Third Sub-Division main line will register at West Duluth by ticket.

Westward trains and engines via Second Sub-Division will come to a full stop not less than two hundred (200) feet from junction switch at Garfield Avenue, and not proceed until way is known to be clear.

No. 181 is Superior to No. 180, West Duluth Jct. to Fond du Lac. No. 185 is Superior to No. 184, West Duluth Jct. to Fond du Lac. No. 189 is Superior to No. 188, West Duluth Jct. to Fond du Lac. No. 191 is Superior to No. 190, West Duluth Jct. to Fond du Lac.

WESTWARD

SECOND SUB-DIVISION. (DULUTH AND SUPERIOR TERMINAL)

Table with columns for train numbers (55, 53, 23, 33, 37, 63, 95, 19, 51, 163, 93, 57, 35), stations (Garfield Ave, Rices Point, Bridge Switch, Elevator Station, Omaha Conn., Superior U. D., Belknap Street, Central Avenue), and class types (First Class, Second Class, Third Class). Includes time table No. 101 for Sunday, November 19, 1922.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION. DOUBLE TRACK BETWEEN GARFIELD AVENUE AND OMAHA CONNECTION, AND BETWEEN BELKNAP STREET AND CENTRAL AVENUE, EXCEPT OVER MINNESOTA DRAW ON ST. LOUIS RIVER BRIDGE WHICH IS GOVERNED BY INTERLOCKING SIGNAL. AUTOMATIC BLOCK SIGNALS BETWEEN CENTRAL AVENUE AND 21ST STREET, SUPERIOR.

SPECIAL INSTRUCTIONS PAGE 6.

REGISTER STATIONS: First class trains and passenger extras will register at Superior Union Depot and Central Avenue. Second class and inferior trains and extras will register at Rices Point and Central Avenue, when running via Third Sub-Division.

BULLETIN STATIONS. Rices Point yard office. All trains and engines will run under control between west yard limit board, Superior, and Omaha Connection, including Lake Superior terminal tracks between Belknap Street and Omaha Connection expecting to find track occupied, and will not exceed ten (10) miles per hour over switches at Belknap Street.

All trains using tracks of Lake Superior Terminal & Transfer Railway, between Omaha Connection and Belknap Street, will be governed by L. S. T. & T. Time Table Rules & Regulations.

Second and inferior class trains will move with great care between Winter and Belknap Streets, Superior Freight Yard, expecting to find the main tracks blocked.

Westward trains and engines have the right to use eastward main track at Central Avenue between west lead from yard and the junction switch leading to terminal Fourth Sub-Division main line without protection, and all eastward trains will approach and pass through this territory under control expecting to find track occupied.

Nos. 63, 64, 60, and G. N. trains 19, 20, and 24, will register at Central Avenue by ticket. Eastward trains and engines will come to a full stop not less than two hundred (200) feet from junction switch at Garfield Avenue, and not proceed until way is known to be clear.

Westward trains and engines will stop not less than two hundred (200) feet from D. W. and P. crossover at Garfield Avenue and will not proceed until way is known to be clear.

DERAIL SWITCHES: When not in use must be kept set in derailing position. East end N. P. Freight House track, Superior. Main line just east of N. P. Freight House, Superior.



WESTWARD

THIRD SUB-DIVISION. (DULUTH AND SUPERIOR TERMINAL)

EASTWARD

Table with columns for First Class (65, 309, 313, 193, 63, 311, 307), Stations, and First Class (66, 312, 310, 308, 314, 64). Includes Time Table No. 101, Sunday, November 19, 1922. Stations listed include West Duluth Jct., Zenith Furnace, Berwind Jct., Grassy Point Drawbridge, Wisconsin Jct., Grassy Point Siding, and Superior U. D.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

DOUBLE TRACK BETWEEN BERWIND JCT. AND SUPERIOR.

SPECIAL INSTRUCTIONS, page 6.

REGISTER STATIONS: Superior Union Depot for first class trains and passenger extras. East leg of wye at West Duluth Junction is terminal Third Sub-Division main line, and the switch at junction at east and west legs of wye will be kept set and locked for main line.

RULES GOVERNING THE MOVEMENT OF TRAINS OVER GRASSY POINT DRAW BRIDGE.

A torpedo machine is located just inside of the Home Signal on Grassy Point Draw Bridge, and is operated in connection with derail. The explosion of one torpedo indicates that derail is set in derailing position and train must be brought to a stop immediately to prevent derailment.

WESTWARD

FOURTH SUB-DIVISION. (DULUTH AND SUPERIOR TERMINAL)

EASTWARD

Table with columns for Third Class (729), First Class (53, 51), Stations, and First Class (52, 54), Third Class (730, 732). Includes Time Table No. 101, Sunday, November 19, 1922. Stations listed include East End, C. St. P. M. & O. Crossing, Hill Ave., and Central Ave.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

DOUBLE TRACK BETWEEN EAST END PASSENGER STATION AND EAST LEG OF WYE AT CENTRAL AVE.

INTERLOCKING PLANT: Central Avenue and East End. REGISTER STATIONS: Central Avenue. Switches at east end of double track, east of East End passenger station, will be kept set and locked for westward trains from First Sub-Division main line.

Switches at connection of Fourth and Second Terminal Sub-Divisions near Central Avenue depot, will be kept set and locked for Second Sub-Division. Care will be taken by train and enginemen when using east leg of wye at Central Avenue, as it is single track and on sharp curve; Trains will not exceed four (4) miles per hour and in foggy or stormy weather they will protect themselves by flag.

**SPECIAL INSTRUCTIONS.**

(Note Changes.)

Second class and inferior trains may run ahead of delayed first class trains between West Duluth Junction and Duluth, Superior and Rice's Point, West Duluth Junction and Superior, Superior and East End without orders.

All inferior to first class trains may run ahead of each other without orders.

Clearance Form A will not be required at Rices Point yard, Superior Freight Station or Superior Union Depot.

Extra trains, work extras and switch engines do not require telegraphic orders for movement between West Duluth Junction and Duluth, between Central Avenue and Rices Point, between Central Avenue and East End, nor between West Duluth Jct. and Superior.

A brakeman or flagman must be stationed on the rear car of all trains, at all times, and be provided with proper danger signals. In case of stoppage on main track flagman must go back immediately with stop signals a sufficient distance to insure full protection to his train. Conductors and switch foremen will be held responsible for the strict observance of this rule.

To insure personal safety, operators having train orders or messages to deliver to passing trains will stand to the right hand side of the train and avoid standing between tracks when possible to do so.

ALL trains must move within yard limits prepared to stop unless the main track is seen or known to be clear.

All train crews, switch crews and light engines using D.T. main line from connection of Missabe coal dock with this track to east end of Zenith Furnace Company's lead, on Grassy Point line, will move in both directions under full control expecting to find the D.T. main line occupied.

D.T. connection, located at east end of Zenith Furnace Company's lead, Grassy Point line, will be considered a railroad crossing. Traffic using this connection will make usual stop and make sure that track is clear before proceeding.

The D.T. main line is the northmost track between the Boston Coal Dock crossing and connection with Grassy Point main line.

All switches leading from this track, when not in use, will be left lined for same.

The following signs when placed in columns provided indicate:

- W—Water.
- C—Fuel.
- O—Track scales.
- T—Turntable.
- Y—Wye.
- D—Day office only.
- DN—Day and night office.
- P—Telephone.
- X—Yard Limits.

**AUTHORIZED SURGEONS:—**

- Dr. C. S. KNOX, 219 Albany Block, East End.
- Dr. W. H. SCHNELL, 28 Columbia Bldg., Superior.
- Dr. F. C. SARAZIN, 28 Columbia Bldg., Superior.
- Dr. A. J. BRADEN, 400 Lyceum Bldg., Duluth.
- Dr. C. M. SMITH, 400 Lyceum Bldg., Duluth.
- Dr. O. E. HEIMARK, 1930 W. Superior St., Duluth.
- Dr. C. L. HANEY, 1930 W. Superior St., Duluth.

**LOCATION STRETCHERS:—**

- East End Freight Station.
- Central Avenue Freight Station.
- Superior Freight Station.
- Rices Point Yard Office, Duluth.
- Dock 6, Duluth.
- Duluth Union Depot.
- Tool Car, Duluth.
- West Duluth.

**MAXIMUM CLEARANCES.**

	LIMIT OF LOAD MEASUREMENT.																		
	Height Above Top of Rail.																		
	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	8 ft. 6 in. Wide	9 ft. Wide	9 ft. 6 in. Wide	10 ft. Wide	10 ft. 2 in. Wide	10 ft. 6 in. Wide	11 ft. Wide	11 ft. 6 in. Wide	Max. Height	Max. Width
First Sub-division, Duluth to Fond du Lac.....	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	11'-6"
Second Sub-division, Garfield Ave. to Central Ave.....	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	11'-6"
Third Sub-division, West Duluth Jct. to Superior U. D.....	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	11'-6"
Fourth Sub-division, East End to Central Ave.....	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	11'-6"

**G. W. ATMORE,**  
Ass't Superintendent.

**D. M. DRISCOLL,**  
Ass't Superintendent.

**F. L. BIRDSALL,**  
Trainmaster.

**H. J. COUNCILMAN,**  
Trainmaster.

**THEO. HARRIS,**  
Trainmaster.

**F. E. POTTER,**  
Chief Dispatcher.

