SPEED TABLE

Per	me mile Seconds	Miles Per Hour	Tin Per i Minutes S	mile	Miles Per Hour
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0 0 0 0 0	52 54 55 56 57 58 59	66.6 65.4 64.2 63.1 62.0	11111122222222333334567	10 15 20 80 40 45	27.6 26.6 25.7 24 22.5 21.8 21.2
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1 7 1 8 1 9 1 10		58.7 52.9 52.1 51.4	6 7 10	80	12 10 8 6

NORTHERN PACIFIC RAILWAY COMPANY

Duluth and Superior Terminals

TIME TABLE 222

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

Sunday, May 26, 1946

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 carry for reference a copy of OPERATING RULES.

C. CORSER, Superintendent.

W. W. JUDSON, General Manager. C. V. BERGLUND, General Superintendent of Transportation.

May 26, 1946 May	2	WEST	WARD											$\overline{}$	
May 26, 1346 May				d.	v ii	FIRST	T CLASS	5 × 9		=			Jot.		Time Table No. 222
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EASTWARD FIRST SUBDIVISION FIRST CLASS Society of the same class in the opposite direction.														_ _	m 0 0 11.11.
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L 12.01 m L 6.03 m 9.2 WEST DULUTH JCT. 8.2 1.0	Tun Tables, Wyes and Yard Limits. Car Coar Copposity XXX X	EA Station Number of Station N	20.0 ASTWAR ASTWA	.10 15.0 D TRAIN .RD .RD .ssenger Paily I	.04 13.5 IS ARE 2.0 3. N. D 20 ssenger I Daily 8.00 PM A 7.58 PM	.02 30.0 SUPERIO 2.04 .M.&I.R. 2.2 Passenger P. Daily E. 4.10 M. A. 4.07 4.06	.05 10.8 OR TO TI FIR FIRST 62 Cassenger Pac Ex. Sun. I 12.15 PM A 12.12 1.11	.12 24.5 RAINS OI EST SUI CLASS 24 3. N. D. W. 24 Basenger Pas. Daily Ex.	.06 19.0 F THE SA BDIVIS 04 4 7, & P. D.M. 20 Mon. Do L 9 9.30 M	OO 3 C.&I.R. G Senger Passenger Pass	.05 10.8 ASS IN 1 36 3. N. 36 seenger Pas. Mon. D	20.0 20.0 THE Off Senger I Daily 8.00 AM A 7.57 AM	666 Passenger Daily 6.25 6.22	15.1 14.2 13.2 12.9 12.3	Average Speed Per Hour DIRECTION. Time Table No. 2 May 26, 1946 STATIONS Telegraph Offices and CaEAST D. M. & I. R. JCT DUDULUTHDN 1.0GARFIELD AVE 20TH AVE. WPI
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18	Turn Tables, Wyose and Variation of Sidings, XX	EA To the part of	20.0 ASTWAR ASTWA	.10 15.0 D TRAIN .RD .RD .ssenger Paily I	.04 13.5 IS ARE 2.0 3. N. D 20 ssenger I Daily 8.00 PM A 7.58 PM	.02 30.0 SUPERIO 2 0 4 .M.&I.R. 2 assenger P. Daily F. 4.10 M A.4.07 4.06 f. 4.03 M	10.8 OR TO TI FIR FIRST 62 Cassenger Page Ex. Sun. I 12.15 PM A 1 12.12 L 1 12.09 12.05 12.03	.12 24.5 RAINS OI EST SUI CLASS 24 3. N. D. W. 24 Basenger Pasily Ex. 11.58 AM 11.56 AM A	.06 19.0 F THE SA BDIVIS 04 4 (7. & P. D.M. 20 Benger Pass Mon. D. 4 (9.30 As 9.28 9.28	OO 3 C.&I.R. G Senger Passenger Pass	.05 10.8 ASS IN 1 36 3. N. 36 seenger Pas. Mon. D	.03 20.0 THE OI 58 Senger H 2011y 8.00 AM A 7.57 AM f	PPOSITE PROSITE AND ADDRESS OF THE PROSITE AND ADDRESS OF T	Hong que l'ac l'ac l'ac l'ac l'ac l'ac l'ac l'ac	Average Speed Per Hour DIRECTION. Time Table No. 2 May 26, 1946 STATIONS Tolegraph Offices and CaEAST D. M. & I. R. JC DUDULUTHDNQARFIELD AVEDIQUTH AVE. WPIQUTH AVE. WPIQUEST D. M. & I. R. JCTQUEST D. W. & P. JCTQUEST DULUTH DIQUEST D
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Daily

30.0

.02

Daily

12.0

.05

Daily

10.3

.07

Ex. Sun.

21.0

.14

Daily

30.0

.02

Ex. Mon.

15.0

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

.10

Daily

13.5

.04

Ex. Mon.

20.0

.03

Daily

10.9

.27

Time Over Subdivision

Average Speed Per Hour

Daily

20.0

.03

SPECIAL INSTRUCTIONS PAGES 6, 7, 8 AND 9.

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

FIRST SUBDIVISION Eastward

Time Over Subdivision

Average Speed Per Hour

Time Table No. 222		SEC	OND CL	ASS	
May 26, 1946	624	626	628	404	402
-2	8.2 8	C. M. St. P. & P. 626		D.M.&I.R.	D.M.& I.R.
STATIONS	Freight	Freight	Freight	Passenger	Passenger
Telegraph Offices and Calls	Daily	Daily	Daily	Daily	Daily
EAST D. M. & I. R. JCT				A 4.25 PM	A 5.55 PM
0.9 DU: DULUTH DN			A 4.30 M	L 4.20 PM	L 5.50 PM
GARFIELD AVE			4.20		
20TH AVE. WPD	A 3.50 AN	A 4.00 AN	4.09		
WEST D. M. & I. R. JCT.	3.43	3.53	4.06		
SOO LINE CROSSING.					
SOO LINE CROSSING.	3.37	3.46	4.00		
WU WEST DULUTH DN ST.P	3.35	3.43	3.58		
WEST DULUTH JCT.P	L 3.30 AM	L 3.40 AM	L 3.55 M		. 15
D. T. CROSSING		R 17.			
RIVERSIDE					
MORGAN PARK					
NEW DULUTHPD					
FOND DU LAC		- A			E
	Daily	Daily	Daily	Daily	Daily
Time Over Subdivision	.20	.20	.35	.05	.05
Average Speed Per Hour	10.8	10.8	8.4	10.8	10.8

Daily

14.7

.20

Daily

20.0

.03

SPECIAL INSTRUCTIONS PAGES 6, 7, 8 AND 9.

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

SEC	OND CL	ASS	5		Ш	FII	RST CLA	SS	8. 08.		. 12 =1	Time Table No. 222			_
629	625	623		35	89	57	93	19	23	55	65	Time	e Table May 26,		2 -
N. P. 630	C. M. St. P. & P. 625	2		G. N. 35	Omaha 510	,	Omaha 512	G. N. 19	G. N. 23			may 20, 2040			from
Freight	Freight	Freight	a a 18	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	S	TATI	0 N S	Distance from
Sun., Tue., Chur., Fri.	Daily	Daily		Ex. Sun.	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Telegi	raph Office	s and Calls	Dis
		L 6.03 PM		L 9.32 PM		L 7.53 PM		L 4.32 PM	L 8.02AN	L 7.23 AM	8		GARFIELD	AVE) [0.
10.00 PM	L 7.40 PM	6.04		9.34		7.55		4.34	8.04	7.25	A		RICES PO	INT	P ou O.
10.05	7.45	6.06		9.36	L 8.22 PM	7.56	L 5.05 PM	4.36	8.06	7.27		В	BRIDGE SW	VITCH	} [1.
10.09	7.49	6.09		9.39	8.25	7.59	5.08	4.40	8.10	7.30		ELF	EVATOR S	TATION	rac 2.
10.11	7.51	6.11		9.42	A 8.28 PM	8.01	A 5.10 PM	4.42	8.12	7.32	TO 1		OMAHA C	ONN) 🖺 2.
10.45 pm Sun., Tue., Thur., Fri.	A 8.40 PM Daily .60	A 6.50 PM Daily		A 9.55 PM Ex. Sun.	Daily .06	As 8.15 Ma Daily	Daily	A 4.53 PM Daily .21	A 8.23 AN Daily .21	As 7.44 AM Daily .21	As 2.20 AM Daily	AJ	CENTRAL me Over Sub		nack
8.7	6.5	9.3	-2	19.0	13.7	19.9	19.1	20.9	20.9	20.8	17.1		me Over Sub erage Speed		
	E TRACI	STWARD K BETWE E. FIRST	EEN GAF	RFIELD	AVENUE	S. T. &	MAHA C T. RAIL	CONNECT	TION, EX	CEPT O	VER MI	NNESOT	A DRAW		TREE
s by mes		Tir	ne Tab	la No	222		n fra e	Neg.	FII	RST CLA	iss	x 12 102	* 140 FE 107	я	SECO
. Wyes mits.	į į	1111	NO 1 0-0000	26, 1946	666	66	94	58	36	96	24	20	56		63
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Water, Fuel. & Turn Tables, and Yard Lim	Cape	Station N	Distance Central A	STATIONS	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger		Freight
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X			7.4	GARFIELD AVE	W 10		A 7.57 AM	A 6.57 AM		A 11.56AM	A 7.58 PM	A 10.45 PM	Ý	
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х			5.2	ELEVATOR STATION		7.29	7.49	6.49	11.18	11.47	7.49	10.38		8.23
X	X		4.5	OMAHA CONN	=	L 7.27 AN	7.46	6.47	L 11.15AM	11.45	7.46	10.35		8.20
		ik.		BETWEEN OMAHA CONNECTIO WILL BE GOVERNED BY L	S. T. &	T. RY. 1	STREET	T TRAIN	S USING	L. S. T.	& T. R.	AILWAY NS.		
X		WB 67	4.2	BYPDN	A = 5.40 A		7.44	s 6.45	100 L.100	s 11.43	s 7.45	s 10.34		
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WXY	Yard	67	0.0	₹ AJCENTRAL AVEDN	L 5.29 A		L 7.33AM	L 6.33AM		L 11.33 AM		L 10.25 PM		L 8.00 A
16. 27.	- 1	i de s		regard to the second of the se	Daily	Daily	Daily	Ex. Mon.	Daily	Daily	Daily	Daily	R 19	Mon., Wed. Fri., Sat.
Z E			0 19	Time Over Subdivision	.11	.06	.24	.24	.06	.23	,24	.20		.30

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION. DOUBLE TRACK BETWEEN GARFIELD AVENUE AND OMAHA CONNECTION, EXCEPT OVER MINNESOTA DRAW ON ST. LOUIS RIVER BRIDGE. FIRST CLASS TRAINS USE L. S. T. & T. RAILWAY BETWEEN OMAHA CONNECTION AND BELKNAP STREET. SPECIAL INSTRUCTIONS PAGES 6, 7, 8 AND 9.

18.2

16.0

18.5

18.2

13.0

16.0

22.3

Average Speed Per Hour

W	EST	WA	RD	0 =	6 6 VICTORIO (1980)		TE	IIR.	D SUBDIVISION		3 - ANDO SUNDESCO A	85. · · · · · · · · · · · · · · · · · · ·	EAST	WARD	5	
		-		Fil	RST CLA	ss		7	Time Table No. 222	E5	= 4	FIRST CLASS				
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Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits.	Car Capacity of Sidings.	Numbers.	Ē	D.S.S.&A.	Soo Line	Soo Line 63	Soo Line 65 Passenger Passenger Soo Line 65 STATIONS STATIONS	from & T. B	D. S. S. & A.		Soo Line	Soo Line	Soo Line			
Yar	Sign l		Passenger	Passenger	Passenger	Passenger	Passenger	Tolograph Offices and Calle G	Passenger	Passenger	Passenger	Passenger	Passenger			
Tur a	ofs	Station	Daily	Ex. Sat.	Daily	Daily	Ex. Sun.		Ex. Sun.	Daily	Daily	Ex. Sun.	Daily			
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x			11.53					0.3	ZENITH FURNACE	3.0		6.01				
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			-	х = -	nea //	8 -	20	1.8	GRASSY POINT Double of DrawBridge	1.5						
x			A 12.05 M	A 8.33 PM	A 6.18 PM	A 1.18PM	A 8.48 AN	3.3	L. S. T. & T. RY. JCT.	0.0	L 5.11m	L 5.49 AM	L 7.38 AM	ь 3.57рш	L 5.34	
8		86 ₈₉₀	TR	AINS US	ING L. S	S. T. & T T. & T.	RAILW	AY IE T	WEST OF L. S. T. & T. RY. Able and special instr	JCT	. WILL E	E GOVE	RNED	an eπ ^y = 5	. mga m — R _a	
-			Daily	Ex. Sat.	Daily	Daily	Ex. Sun.				Ex. Sun.	Daily	Daily	Ex. Sun.	Dally	
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			13.2	24.0	24.0	24.0	24.0		Average Speed Per Hour		24.0	14.1	24.0	24.0	24.0	
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		22,10	SE	COND CL	ASS	FIRST	CLASS				FIRST CLASS		SEC	45 S	
19 88		a a		629	631		53		Time Table No. 222		54		632	630	
l, Scal	5.	nbers.	9		D. S. S. & A.	-	D. S. S. & A.	g g	May 26, 1946	from	D.8.8.&A.		D. S. S. & A.		
Fuel able rd L	pacit gs.	Nu		Freight	Freight		Passenger	e fr	CT4.T10NC	~9	Passenger	25	Freight	Freight	
Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits.	Car Capacity of Sidings.	Station		Mon., Wed. Fri., Sat.	Daily	# 5 T	Ex. Sun.	Distanc East E	STATIONS Telegraph Offices and Calls	Distance Central	Ex. Sat.		Daily	Sun., Tue., Thur., Fri.	
WXY	Yard	63		L 7.45 AM	L 5.20 AM		L 4.51 M	0.0	P	4.1	A 9.10PM	- E	A 12.15A	A 10.58PM	
x	Yard	65		7.47	A 5.21 AM	= :	A 4.52 M		NEWTON AVENUE	3.9	L 9.09 PM		L 12.14M	10.56	
	Yard			7.52				1.6	P	2.5				10.51	
x		2000-2				12.02 12.000 100020000 10.000		3.0	SOO LINE CROSSING.	1.1					
WXY	Yard	67	ā	A 7.59 A				4.1	AJCENTRAL AVEDN	0.0				L 10.45 PM	
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EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
SPECIAL INSTRUCTIONS PAGES 6, 7, 8 AND 9.

Time Over Subdivision

Average Speed Per Hour

.01

12.0

.01

.13

18.0

.01

12.0

12.0

-14

17.6

.01

SPECIAL INSTRUCTIONS

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be behind caboose.

ALL SUBDIVISIONS.

Speed Restrictions—	
Maximum Speeds Permitted—	. N two
The maximum speeds in miles per hour permitted are listed by Zones for each Subdivision.	
Except on mountain grades, passenger trains with diesel-electric engines and all light weight cars may run at speeds ten (10) miles per hour faster than passenger trains with steam engines.	
Speed Restrictions Account Curves, etc.—	
Reductions of speeds, within the zones listed for each Subdivision, when necessitated by curves or for other reasons, are designated by Advance Warning, Reduce Speed and Resume Speed signs.	
The maximum permissible speeds in miles per hour for trains with steam engines are shown on the signs. Except on mountain grades, passenger trains with diesel-electric encircles.	
gines and all light weight cars may operate through the restricted zones at speeds (10) miles per hour faster than those shown on the signs.	
Speed Restrictions, Miscellaneous—	
The locations where reduced speeds are required, for such reasons as city ordinances, bridges, etc., where not designated by Advance Warning, Reduce Speed and Resume Speed signs, are listed for each Subdivision and appear directly after the list of maximum speeds permitted.	
All trains and engines:	
Through crossovers, turnouts and gantlets	
In facing point direction,	X 18
If not equipped with facing point lock	
If equipped with facing point lock	
On track for which switch is lined	
If any movement is through turnout, the allowable turnout speed	
must be observed.	
Handling steam wrecking cranes, pile drivers or	
locomotive cranes	
Picking up train orders from operators	
Engines— Handling Running Classes— trains. light.	
All A and Q (except on passenger trains	
where higher speed is authorized)	
Z-6, Z-7 and Z-8	
The second secon	
Z-3, Z-4	
8-4, T, T-1, W to W-5 inc. Y-2	
8-10	
under all conditions	
660 HP diesel-electric switch engines, Nos. 125 to 130 inc	
5400 HP diesel-electric road engines, Nos. 6000 to 6010 inc	
900 HP and 1000 HP diesel-electric switch engines and combination road-switch engines.60 MPH. 60 MPH.	
Coming from shops, under steam, to prevent running hot:	- 1
Coming from shops, under steam, to prevent running hot: All A and Q and classes Z-6, Z-7 and Z-8	
8-4, T, T-1, W to W-5 inc., Y-235 MPH.	
Z-5, S-10, Y, Y-1, Y-3	
Main Line—With main and side rods removed:	
All A and Q and classes Z-6, Z-7 and Z-830 MPH.	
Z-5, S-4, S-10, T, T-1, W to W-5 inc., Y to Y-3 inc25 MPH. Z-3, Z-4	
= -, = -, -, -, -, -, -, -, -, -, -, -, -, -,	

With main rods removed and side rods in place: All A and Q and classes Z-6, Z-7 and Z-8
Branch Lines—With either or both main and side rods removed:
All A and Q classes
On bridges—With either or both main and side rods removed; Steam switch engines, without engine trucks
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, 660 HP Nos. 125 to 130 inc., when handled dead in train
Single and Double Headers; operation—track and bridges—general. Except as otherwise provided, double header operation of engines of the same class carry the restrictions applicable to single headers of that class. Double headers of engines of different classes carry the restrictions applicable to double headers of the heavier class of the combination. Double-Heading Restrictions—Engines, Classes A-2 to A-5 or Z-5 to Z-8 inclusive:
When necessary to use two such engines on freight trains, the second engine must be cut in at the middle or in the rear portion of the train. When such engines are used as helpers on passenger trains handled by engines of the same class, such helper engine must be placed on the rear of the train. When engines of these classes are used to double-head with engines of W or other A or Z classes, the A-2 to A-5 or Z-5 to Z-8 inclusive, must be the lead engine. Diesel engines—Except as otherwise provided, diesel-electric engines of the 6000 series and all diesel switch engines may be operated over bridges under the same restrictions shown for Class T engines.
Rule D-97 applies to all subdivisions.
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 in special cases when authorized by the Superintendent and protected by train order.
Rule 606: Emergency Signals are not used at inter-lockings or draw-bridges operated by the Northern Pacific Railway.
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7. Precautions must be taken on double track to prevent accidents from swinging doors or other loose construction attached to cars or locomotives. Trains handling logs must stop when being met or passed by passenger trains.

6. Test of hand brakes of gas-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

Gas-electric motor cars, when handled dead in freight trains, must

- Electric Switch Locks—To operate, open door of electric switch lock and, if indicator shows "proceed", move lock lever to the left, which will unlock switch and permit it to be opened and movement may be made at once. If indicator shows "stop", and conflicting train movement is not evident, open door of release box and push the push button. This will start operation of clockwork release which will run down in three minutes and, at the end of that time, indicator will show "proceed" and switch can be unlocked by moving lever to the left. Restore lock lever, close and lock doors of electric locks and release boxes when switches are restored to normal position.
- Pusher engines must not push on cabooses not equipped with steel
- Second class and inferior trains and engines may run ahead of delayed first class trains without train order authority.
- Extra trains, and yard engines may move with current of traffic between West Duluth Jct. and Duluth (1st sub.); between Central Avenue and Rice's Point (2nd sub.); between Central Avenue and Allouez (4th sub.), and in either direction on single track and with the current of traffic on double track between West Duluth Jct. and Superior (3rd sub.) without train order authority.
- Flagman must be stationed on the rear car, at all times, and be provided with proper flagging equipment. In case train is stopped on main track, flagman must protect as prescribed by Rule 99. Conductors and switch foremen will be held responsible for the strict observance of this rule.
- The D. T. Ry. main track is the northmost track between the Hanna Coal Dock crossing and connection with Grassy Point main track. All switches leading from this track, when not in use, will be left lined for D. T. Ry.
- 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 Grassy Point line, will move in both directions at restricted speed, expecting to find the D. T. Ry. main track occupied.
- D. T. Ry. connection, located at east end of Zenith Furnace Company's lead, Grassy Point line, 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.
- Bulletin Stations-

Duluth. Union Depot, Rices Point Yard and Roundhouse. Soo Line Passenger Station. Superior. Soo Line Yard and Roundhouse.

17. Standard Time Clocks-

Duluth-Union Depot, Rices Point Yard Office and Round House.

18. Watch Inspectors-

Duluth Kanter's Jewelry Co.
Duluth Herbert W. Schmidt. Superior.....L. J. Howatt.

FIRST SUBDIVISION

- 1. Speed Restrictions-Passenger and Mixed Zone-Between:
- Bridge and Engine Restrictions-Between Duluth and West Duluth Junction-Engines classes A-2 to A-5 inc. and Z-5 to Z-8 inc., not permitted. than Class T not permitted.

Between Fond du Lac and upper Power Plant-engines heavier than Class L-9 not permitted.

Bridge 4..... 5 MPH.

- At Fifth Avenue West-Normal position of main track switch is for Union Depot
- 4. At Garfield Avenue—Junction switches will be kept set for First Subdivision. Trains stop not less than two hundred (200) feet from junction switch and crossover used by D. W. & P. and not proceed until track is known to be clear.
- At Nineteenth Avenue West-Trains using the Dick tracks must not block crossing.
- At Twenty-first Avenue West-Telephone at crossover-Eastward trains call yard (3 rings) for route when necessary.
- 7. At West D. M. & I. R. Jct. Interlocking-Trains will call for route as follows:
 - Martins track to D. M. & I. R. yard. 000 000
 - D. M. & I. R. yard to Martins track. Martins track to westward main. 000-
 - oooo Martins track to D. T. main. oooo D. T. main to Martins track.
 - **—** 0 Westward main to D. M. & I. R. yard. **—** 0
 - D. M. & I. R. yard to eastward main. Through main track movements.
- At West Duluth Jct .- Switch at west end wye will be kept set and locked for first Subdivision. Yard engines will use west 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 westward track.
- At Fond du Lac-Trains will call upper Power Plant (Douglas 50) from New Duluth and secure permission to use track between Fond du Lac and Power Plant, but must secure authority from chief dispatcher to use track to lower Power Plant.
- Yard Limits-Between East D. M. & I. R. Jct. at Fifth Ave. East and Lake Superior Division yard limit sign west of West Duluth Jct.
- Derail Switches-Duluth-House Track No. 4. Fond du Lac, on
- Register Stations-Duluth Union Depot for trains arriving at or departing from Fifth Ave. Yard or Union Depot, Rice's Point Yard office for other trains. West Duluth.
- Register Exceptions—At West Duluth 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.
- Clearance Exceptions—Trains originating at East D. M. & I. R. Jct., Garfield Ave., 20th Ave. West, West D. M. & I. R. Jct., D. W. & P. Jct., West Duluth Jct. and Fond du Lac will not require clearance.

SECOND SUBDIVISION

- 1. Speed Restrictions-Freight Passenger and Mixed Zone-Between: Garfield Ave., and Central Ave..... 50 MPH. 60 MPH. Trains handling loaded ore cars. 40 MPH. First class trains, within yard limits........... Restricted Speed. At Superior-Over switches at Belknap Street and Omaha Conn..... At Central Ave.-On both tracks between west lead from yard and junction with Fourth (Terminal) Subdivision. ... restricted speed At Central Ave.—Over highway crossings and thru interlocking.....
- 2. Bridge and Engine Restrictions-Engines classes A-2 to A-5 inc. and Z-5 to Z-8 inc., not permitted.
 Bridge 2.1, St. Louis Bay.....
- At Garfield Avenue-Junction switches will be kept set for First Subdivision. Trains will stop not less than two hundred (200) feet from junction switch and crossover used by D. W. & P. and not proceed until track is known to be clear.

4. At Rice's Point—Spring switches not equipped with facing point locks, roundhouse lead, 900 feet south of coal dock, indicate—

Yellow-Straight Track. Green-Roundhouse Lead.

Normal position of switches designated below is as follows:

South End Rice's Point Yard,

switch from B to Cyard 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 Rice's 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.

Between Bridge Switch and Elevator Station, St. Louis River Bridge—Interlocking signals govern use of tracks. Single track over Minnesota Draw.

The three-light semaphore on eastward track west of Minnesota Draw indicates position of double track switch, position of draw and route:

> Top Light-C. St. P. M. & O. Middle Light-Great Northern Bottom Light-Northern Pacific

The two-light semaphore on westward track east of Elevator Station indicates route:

Top Light—Straight main track. Bottom Light—Great Northern freight track.

Westward trains will stop before entering onto Wisconsin Draw. Eastward trains will stop before entering onto Minnesota Draw. Westward trains entering onto Minnesota Draw and Eastward 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.

- 6. At Central Avenue—Westward trains and engines may use eastward main track between west lead from yard and junction with Fourth (Terminal) Subdivision without protection.
- Yard Limits-From Garfield Ave. to yard limit sign west of 28th Street, Superior, and from yard limit sign east of Central Ave. to the yard limit sign just east of Soo Line crossing on Terminal Fourth Subdivision, and yard limit sign west of Central Ave. on Second Subdivision of Lake Superior Division.
- 8. Derail Switches-At approach to Minnesota Draw from Duluth. At Elevator Station. At Superior-just East of N. P. freight house.

Register Stations:

Rice's Point for second class and inferior trains, except passenger extras. Central Avenue.

10. Register Exceptions-At Central Avenue 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.

11. Clearance Exceptions:

Trains originating at Garfield Ave., Rice's Point (Yard), Bridge Switch, Elevator Station, Omaha Conn. and Belknap St. will not require clearance.

At Central Ave. eastward trains will not require clearance if train order signal is in the proceed position. Westward Great Northern trains enroute to Great Northern tracks, at the Interlocking, not governed by train order signal.

THIRD SUBDIVISION

- 1. Speed Restrictions-Passenger and Mixed Zone-Between: West Duluth Jct., and L. S. T. & T. Jct. 40 MPH. 40 MPH.
- 2. Bridge and Engine Restrictions-Engines classes A-2 to A-5 inc. and Z-5 to Z-8 inc., not permitted.
 All bridges—Trains handling wrecking cranes of 250 tons, or heavier,
- 3. At West Duluth Jct.—Normal position of switches on east leg of wye is for Third (Terminal) Subdivision main track.
- Clearance Exceptions: Trains originating at West Duluth Jct., Berwind Jct. and L. S. T. & T. Ry. Jct. will not require clearance. 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.
- Derails-Winter St. just east of junction with Second Subdivision.
- 6. Yard Limits-Between West Duluth Jct. and yard limit sign west of Grassy Point drawbridge, and between yard limit sign east of L. S. T. & T. Ry. Jct. and Superior.

FOURTH SUBDIVISION

- 1. Speed Restrictions-All Trains and Engines Zone-Between: East End and Central Ave.....Restricted Speed.
- Bridge and Engine Restrictions: Engines Class W or heavier, over trestle approach to
- At East End-Normal position of switch at end of double track is for westward trains. The approach signal of interlocking is an automatic block signal governing single track to end of double track and westward track to Newton Ave. interlocking. Eastward D. S. & A. and C. St. P. M. & O. trains and engines will use westward main track between Newton Ave. interlocking and end of double track as single track, under single track and yard limit rules.
- 4. At Soo Line Crossing-When using Soo Line tracks, Northern Pacific crews must have in their possession and be governed by current Soo Line Duluth and Superior Terminal Division Time Table, a supply of which is maintained at Rice's Point Yard office and roundhouse.
- 5. At Central Ave.—Normal position of switch at end of double track is for eastward trains. Normal position of switch at junction of Fourth and Second (Terminal) Subdivisions is for Second Subdivision. Normal position of wye switch, adjacent to Tower Avenue, is for movements from Second Subdivision main track to Terminal Fourth Subdivision.
- 6. Yard Limits-Tracks between yard limit signs west of East End and east of Allouez, and from yard limit sign east of Central Avenue to the yard limit sign just east of Soo Line crossing on terminal Fourth Subdivision.
- Register Stations: Central Ave. Soo Line 21st St. Yard Office, Superior, for D. S. S. & A. Ry.
- Register Exceptions—At Central Ave. 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.
- 9. Clearance Exceptions-Trains originating at East End and Hill Ave. will not require clearance.

AUTHORIZED SURGEONS

Dr. B. I. Derauf, Chief Surgeon..... St. Paul.
Dr. J. W. Jesion,
Dr. L. Rosenbladt,
Dr. A. McEwan,
Dr. C. H. Decker,
Dr. W. J. Gjerde,
Dr. R. W. Dickman.

SPECIALISTS

Dr. L. A. Nelson, Oculist830 Lowry Bldg., 8	t. Paul
Dr. H. E. Binger, Eye, Ear, Nose	
& Throat 1039 Lowry Bldg., 8	t. Paul
Dr. L. T. Simons, Eye, Ear, Nose	
& Throat	t. Paul
Dr. K. A. Phelps, Oculist and Aurist, 1137 Medical Arts	Bldg.,
Minneapolis.	
Dr. M. F. Fellows, Oculist and Aurist, 1209 Medical Arts	Bldg
Duluth.	0.,

SURGEONS

Dr. J. W. McGill	1225 Tower Ave., Superior
	1507 Tower Ave., Superior
Dr. C. M. Smith	1115 Medical Arts Bldg., Duluth
Dr C. L. Haney	. 2004 West Superior St., Duluth
Dr. Daniel F. Pennie	706 Medical Arts Bldg., Duluth

C. M. ST. P. & P. RY. SURGEONS

Dr. Cyril M. Smith, 1115 Medical Arts Bldg., Duluth

LOCATION OF STRETCHERS

East End Station.

Central Avenue Station.

Superior Freight Station.

Duluth—Fifth Avenue Yard Office, Dock 6, Union Depot, Store Room, Tool Car, Dock 2, Car Shops, Roundhouse.

West Duluth Station.

Superior Ore Dock.

NOTE.

N. P. B. A. physicians and surgeons, when called upon, will attend to all cases of sickness and accident to employes, passengers, and others. In a case of illness or in any case of injury unrelated to Railway operation, surgeon should endeavor to collect a reasonable fee for service from person attended, other than members of the N. P. B. A. If unable to collect, Chief Surgeon should be notified.

Where injuries are directly related to Railway operation, charge for service should be sent to the General Claim Agent of the Railway Company.

In case of emergency, proper aid should be procured until arrival of local surgeon, when case must be placed in his hands.

RAILROAD CROSSINGS AND INTERLOCKINGS.

First Sub-division

West D. M. & I. R. Jct., Interlocking.
Soo Line Crossing, Interlocking.
D. W. & P. Jct., Interlocking.
West Duluth Jct., Automatic Interlocking.
D. T. Crossing, Duluth Terminal Ry.
Morgan Park, Minnesota Steel Co. Crossing.

Second Sub-division

Bridge Switch and Elevator Station, Interlocking. St. Louis River Drawbridge; Minnesota Draw, Interlocking. Wisconsin Draw, Interlocking. Superior, Winter St., near Omaha Connection.

Third Sub-division

Zenith Furnace—D. M. & I. R. Ry. Crossing.
Berwind Jct., Interlocking, is also junction with Soo Line and D. W. & P. Grassy Point Drawbridge, Interlocking.
G. N. Ry. Crossing.
L. S. T. & T. Ry. Jct.

Fourth Sub-division

Newton Avenue—C. St. P. M. & O. Crossing, Interlocking. Soo Line Crossing, Interlocking.

MAXIMUM CLEARANCES.

	91	LIMIT OF LOAD MEASUREMENT											
	s is v °.	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	Max. Height	Max. Width		
1st Sub-division, Duluth to Fond du Lac	18' 5"	18' 5"	18' 5"	18' 5"	18' 5"	18' 5"	18′ 5″	18' 5"	18' 5"	18' 5"	11' 6"		
2nd Sub-division, Garfield Ave. to Central Ave.	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20' 3"	20′ 3″	11' 6"		
3rd Sub-division, W. Duluth Jct. to Superior U. D.	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20' 3"	20' 3"	11' 6"		
4th 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"	11' 6"		

	LIMIT OF LOAD MEASUREMENT										
	HEIGHT ABOVE TOP OF RAIL										
		8 ft. 6 in. Wide	9 ft. Wide	9 ft. 6 in. Wide	10 ft. Wide	10ft. 2in. Wide	10ft.6in. Wide	11 ft. Wide	11ft.6in. Wide	Max. Height	Max. Width
1st Sub-division, Duluth to Fond du Lac		18' 5"	18' 5"	18' 5"	18' 5"	18' 5"	18' 5"	18' 5"	18' 5"	18' 5"	11' 6"
2nd Sub-division, Garfield Ave. to Central Ave.	• • • • • • • •	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	11' 6"
3rd Sub-division, W. Duluth Jct. to Superior U. D.		20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 3″	20′ 8″	11' 6"
4th 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"	11' 6"

Note: Length of load 52 ft. Heights and widths in table allow 9 inches clearance.

Table is based on open car loading equally divided on either side of center line of car.

C. T. SPONSEL, Asst. Supt. O. A. HANSON, Trainmaster.

G. W. MINKEL, Trainmaster-Roadmaster.

B. V. COYER, Asst. Trainmaster. E. J. WIGG, Chief Dispatcher.