SPEED TABLE

Per	me mile Seconds	Miles Per Hour		me mile Seconds	Miles Per Hour
0	45	80	1	12	50
0	46	78.3	1	15	48
0	47	76.6	1	20	45
0	48	75	1	25	42.3
0	49	78.5	1	30	40
0 0 0	50	72	1	40 45	36
	51	70.6	1	45	36 84.8
0 0 0 0	52	69.2	1	50	32.7
0	58	67.9	2		80 27.6
0	54	66.6	2	10	27.6
0	55	65.4	2	15	26.6
0	56	64.2	2	20	25.7
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NORTHERN PACIFIC RAILWAY COMPANY

Duluth and Superior Terminals

TIME TABLE 223

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

Sunday, April 27, 1947

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.

C. V. BERGLUND, General Manager. R. E. MATTSON, General Superintendent of Transportation.

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		_ _		<u></u> '	L 5.41		L 8.2				L 7.45				EAST D. M. & I. R. JCT
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TW XYZ Yard	Station Numbers,	EAST	Fast D	RD Senger Pass Daily D 0.50 Ps A	S ARE 20 2 i. N. D seenger F Daily 8.00 PM A	204 .M.&I.R. 2 assenger Daily 4.10 pm	FIR 62 Passenger Ex. Sun.	IRST S RST CLAS 24 G. N. 24 Passenger Daily A 11.58 AM	SUBDIV SS 304 D. W. & P. 1 Passenger Ex. Mon.	ISION 400 D.M.&I.R. Passenger Daily A 9.04 M L 9.00 AM	G. N. 36 Passenger Ex. Mon.	58 Cassenger Daily 8.00 AM	Passenge Daily A 6.30	15. Distance from	Time Table No. 2 April 27, 1947 STATIONS Telegraph Offices and Ca 1EAST D. M. & I. R. JC1 2 DUDULUTHDN
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15.0 EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

Ex. Mon.

.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

Daily

30.0

.02

Daily

12.0

.05

Daily

30.0

.02

Daily

10,3

.07

Ex. Sun.

21.0

.14

FIRST SUBDIVISION Westward

Time Table No. 223		SE	COND	•	CLASS
April 27, 1947		6	23	E	327
STATIONS	_	I	reight		reight
Telegraph Offices and Calls			Daily		Daily
EAST D. M. & I. R. JCT	٠.				
DUDULUTHDN		L	6.00 PM	L	7.35 PM
GARFIELD AVE	ט	A	6.03 PM		7.39
20TH AVE. WPD	חסם				7.40
.WEST D. M. & I. R. JCT	BLE				7.42
D. W. & P. JCT WUWEST DULUTHDNWEST DULUTH JCTP	H				
D. W. & P. JCT	RAC			_	7.48
WUWEST DULUTHDN	CK				7.51
WEST DULUTH JCTP				A	7.55 PM
D. T. CROSSING					
RIVERSIDE					
MORGAN PARK					- 8 - 274 - 1 -40 0
NEW DULUTH	PD				¥
FOND DU LAC					1
6	a t		Daily		Daily
Time Over Subdivision			.03		.20
Average Speed Per Hour		Γ	20.0	Γ	14.7

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 Table No. 223	= 98,	SEC	OND CL	ASS	19 2 7
April 27, 1947	624	626	628	404	402
	e E	C. M. St. P. & P. 626	W = 107	D.M.&I.R. 7	D.M.&I.R. 9
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
DUDULUTHDN)	4 K	100 100 100 100 100 100 100 100 100 100	A 4.30 AM	L 4.20 PM	I. 5.50 PM
GARFIELD AVE		g	4.20	001.47.00	mand by the
	A 3.50 AM	A 4.00 AM	4.09		
₩EST D. M. & I. R. JCT.	3.43	3.53	4.06		
SOO LINE CROSSING.	M. C. say				, 8
SOO LINE CROSSING. D. W. & P. JCT WU WEST DULUTH DIN WEST DULUTH JCT.P	3.37	3.46	4.00		
WU WEST DULUTHON	3.35	3.43	3.58		
WEST DULUTH JCT.P	L 3.30 AM	L 3.40 M	L 3.55 AM		
D. T. CROSSING	8.8				
RIVERSIDE			10.00	7.7 I	
MORGAN PARK					5 6 6
NEW DULUTHPD					
FOND DU LAC		n mašon			70
	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

SPECIAL INSTRUCTIONS PAGES 6, 7, 8 AND 9.

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

SF	COND	WARD			# A#		OND SU		.01011			*************************************			 1
629	625			35	89	57	93	19	23	55	65	Time	e Table	No. 22	3
N. P.	C. M. S			G. N.	Omaha	- 57	Omaha	G. N.	G. N.	-55	- 65	= E = E	April 27,	1947	ē
630 Freight	P. & P. 6			85 Passenger	510 Passenger	Passenger	512 Passenger	19 Passenger	Passenger	Passenger	Tanangan	<u> </u>	TATI		Distance from
bun., Tue.,		Daily		Ex. Sun.	Daily	Daily	Daily	Daily	Daily	Daily	Passenger Daily		raph Office		Dista
Party		L 6.03 PM	 	L 9.32 PM		L 7.53 PM		L 4.32 PM			Daily		GARFIELD		
10.00 PM	L 7.40			9.34		7.55 7.55		4.34	8.04	7.25			RICES PO		[7]
10.05	7.45			THE PERSON NAMED IN COLUMN	L 8.22 pm		L 5.05 PM	4.36	8.06	7.27		В	RIDGE SW	VITCH	.P ouble 1
10.09	7.49			9.39	8.25	7 .59	5.08	4.40	8.10	7.30		ELI	EVATOR S	TATION	Trac
10.11	7.51	6.11		9.42	A 8.28 PM	8.01	A 5.10pm	4.42	8.12	7.32			OMAHA C	ONN) 🔭 🕫
10.20	8.25		LL BE G	9.45	D BY L	s 8.02	T. RY.	s 4.45	s 8.15	5 7.35	L 12.06 M	BYS	UPERIOR		
10.20	2000 AND			9.46		8.04		4.46	8.16	7.36	12.08	항성 	BELKNAP 3.7— CENTRAL	STP	} = D
10.45 pu n., Tue.,	A 8.40	PM A 6.50 PM	f	A 9.55 PM		As 8.15ms		A 4.53 PM	A 6.25A	As 7.44 AM	A # 12.2U AN	<∞ (AJ	CENTRAL	AVEDN	1) % %
ur., Fri.	Daily	Daily		Ez. Sun.	Daily	Daily	Daily	Daily	Daily	Daily	Daily	20 Jac	5		200
.45	.60	.47		.23	.06	.22	.05	.21	.21	.21	.14		me Over Sub		
8.7	6.5	9,8		19.0	18.7	19.9	19.1	20.9	20.9	20.8	17.1	Ave	rage Speed l	Per Hour	10
	RRIDG	CK BETW	EEN GAR	RFIELD	AVENUE	AND O	MAHA C	ONNECT	TION. EX	CEPT O	VER MII	NNFSOT	A DRAW	ON ST	LOU
IVER	BRIDG	CK BETW	EEN GAR	RFIELD	AVENUE	S. T. &	MAHA C	ONNECT WAY BE	TION, EX TWEEN	CEPT O OMAHA	VER MII CONNE	NNFSOT	A DRAW	ON ST	TREE
The state of the s	BRIDG	CK BETW	EEN GAR	RFIELD TRAINS	AVENUE USE L.	S. T. &	MAHA C T. RAIL	ONNECT WAY BE	TION, EX TWEEN	CEPT O	VER MII CONNE	NNFSOT	A DRAW	ON ST. KNAP S	ARD
B .	BRIDG	CK BETW	CLASS	trains	AVENUE USE L.	S. T. &	MAHA C T. RAIL	ONNECT WAY BE	SION, EX TWEEN SION FII	CEPT O OMAHA	VER MII CONNE	NNFSOT	A DRAW	ON ST. KNAP S	TREE ARD SECO
nite.	BRIDG	CK BETW	me Tabl	trains	AVENUE USE L.	SECO	MAHA C T. RAIL	JBDIVI	SION FII	CEPT O OMAHA RST CLA	CONNEC	NNESOTA	A DRAW	ON ST. KNAP S	ARI SECO CLAS
nite.	BRIDG	CK BETW	me Tabl	le No. 2	AVENUE USE L.	SECO	MAHA CT. RAIL OND SU 94 Omaha 611	JBDIVI	SION FIF	RST CLA 96 Omaha 613	SS 24	20 G. N.	A DRAW	ON ST. KNAP S	ARI SECO CLAS 63
l Yard Limite. r Capacity Sidinge.	tion Numbers.	Tis	me Tabl	le No. 2	AVENUE USE L.	SECO	MAHA CT. RAIL OND SU 94 Omaha 611	JBDIVI	SION FIF	RST CLA 96 Omaha 613	SS 24	20 G. N.	A DRAW	CASTW	ARI SECO CLA 63
and Yard Limits. Car Capacity of Sidings.	Station Numbers.	Tire of the state	me Tabl April 2 STAT	le No. 2 27, 1947 I O N S	alis	SECO 66 Passenger	MAHA CT. RAIL OND SU 94 Omaha 511 Passenger	DBDIVI 58 Passenger	SION FIF 36 G. N. 36 Passenger Ex. Mon.	RST CLA 96 Omaha 613 Passenger Daily	SS 24 G. N. 24 Passenger	20 G. N. 20 Passenger Daily	A DRAW ND BEL E 56 Passenger Daily	CASTW	ARI SECCE GLA 63 N. 62 Frei
A Car Capacity of Sidings.	Station Numbers.	Tire of the state	me Tabl April 2 S T A T	le No. 2 7, 1947 I O N S Icos and C	alis	SECO 66 Passenger	MAHA CT. RAIL OND SU 94 Omaha 511 Passenger	Daily	SION FIF 36 G. N. 36 Passenger Ex. Mon.	RST CLA 96 Omaha 613 Passenger Daily	CONNEC	20 G. N. 20 Passenger Daily	A DRAW ND BEL E 56 Passenger Daily	CASTW	ARI SECCOLA 63 N. 62 Frei Mon., Fri.,
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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.

Daily

16.0

.06

Daily

18.2

.24

7.33 M L

Ex. Mon.

18.5

6.33 AM

.24

Daily

16.0

.06

Daily

19.0

L 11.33 M L

.28

Daily

18.2

.24

Daily

21.9

.20

7.34PM L 10.25PM

8.00 M Mon., Wed. Fri., Sat.

.80

18.0

Daily

22.8

.11

5.29 A

67 0.0

WXY Yard

AJ....CENTRAL AVE....DN

Average Speed Per Hour

Time Over Subdivision.....

W.	EST	WA	RD	3 65		8	TI	HR	D SUBDIVISION				EAST	WARD	5	
1	9	RR 88 1		FI	RST CLA	ss	5 1		Time Table No. 223		FIRST CLASS					
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Turn Tables, Wyes	Car Capacity of Sidings.	Numbers	ź.	D. S. S. & A.	Soo Line 18	Soo Line 63	Soo Line 65	nce from Duluth Jet.		Distance from L. S. T. & T. R	D. 8. 8. & A.	, , , , , , , , , , , , , , , , , , ,	Soo Line 17	Soo Line 64	Soo Lin 62	
Yar	Sign	don	Passenger	Passenger	Passenger	Passenger	Passenger	(A) A3	STATIONS	ano.	Passenger	Passenger	Passenger	Passenger	Passenge	
Tur	of Sr	Station	Daily	Ex. Sat.	Daily	Daily	Ex. Sun.	Dist	Telegraph Offices and Calls	Dia L. 8	Ex. Sun.	Daily	Daily	Ex. Sun.	Daily	
XY		L5	L 11.50 PM					0.0	WEST DULUTH JCTP	3.3	a _ z	A 6.03 AN	111			
x			11.53					0.3	ZENITH FURNACE	3.0		6.01				
x			11.55 PM	L 8.28 PM	L 6.13 PM	L 1.13 PM	L 8.43 W	1.1	BERWIND JCTP)	2.2	A 5.16A	5.58	A 7.43 AM	A 4.02 PM	A 5.39	
				= n				1.8	GRASSY POINT	1,5	£ =		N.	E = 2	8 F 3 -	
x			A 12.05AL		and recovered	A 1.18PM	5 4000411 400040 12404004714	<u> </u>	WEST OF L. S. T. & T. RY.	0.0	L 5.11M	100000000000000000000000000000000000000	L 7.38 M	L 3.57m	L 5.34	
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			Daily	Ex. Sat.	Daily	Daily	Ex. Sun.		g 6 2 2 2 = ".		Ex. Sun.	Daily	Daily	Ex. Sun.	Daily	
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ex =		2	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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President of the presid	pacit.			Freight	Freight		Passenger		CTATIONS	Ave.	Passenger		Freight	Freight	
Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits.	Car Capacity of Sidings.	Station		Mon., Wed., Fri., Sat.	Daily		Ex. Sun.	Distanc East E	STATIONS Telegraph Offices and Calis	Distano	Ex. Sat.		Daily	Sun., Tue., Thur., Fri.	
WXY	Yard	63		L 7.45M	L 5.20 AN		L 4.51 M	0.0	EAST ENDP	4.1	A 9.10mm		A 12.15 M	A 10.58 PM	1 7 8
x	Yard	65		7.47	A 5.21 A		A 4.52 M	0.2	HILL AVE.	3.9	L 9.09 PM		L 12.14M	10.56	
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22			2	-14	.01		.01		Time Over Subdivision		.01		.01	.13	
				17-6	12.0		12.0		Average Speed Per Hour		12.0	13	12.0	18.9	

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
SPECIAL INSTRUCTIONS PAGES 6, 7, 8 AND 9.

SPECIAL INSTRUCTIONS

ALL SUBDIVISIONS.

	ALL SUBDIVISIONS.	
1.	Speed Restrictions—	
	Maximum Speeds Permitted—	
	The maximum speeds in miles per hour permitted are listed by Zones for each Subdivision.	
	Except on mountain grades, passenger trains with diesel-electric en-	
	gines and all light weight cars may run at speeds ten (10) miles per hour faster than passenger trains with steam engines.	200 (200 (200
	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.	1
Trains.	Except on mountain grades, passenger trains with diesel-electric engines and all light weight cars may operate through the restricted	ŀ
	zones at speeds (10) miles per hour faster than those shown on the signs.	3
	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.	1
	All trains and engines:	
	Through crossovers, turnouts and gantlets	•
	Over Spring Switches—	1000
	In facing point direction, If not equipped with facing point lock	
	If equipped with facing point lock	•
	When movement actuates switch points30 MPH	
	On track for which switch is lined Normal Speed	
	If any movement is through turnout, the allowable turnout speed must be observed.	
	Handling steam wrecking cranes, pile drivers,	
	locomotive cranes and similar equipment30 MPH	:
	Branch Lines25 MPH	
	Picking up train orders from operators30 MPH	•
	Engines— Handling Running Classes— trains, light.	5
	Classes— trains. light. All A and Q (except on passenger trains	
	where higher speed is authorized)60 MPH. 60 MPH	
	Z-6, Z-7 and Z-8	
•	Z-5, Y, Y-1, Y-340 MPH. 35 MPH	
	Z-3, Z-435 MPH. 30 MPH	
	8-4, T, T-1, W to W-5 inc. Y-2 MPH. 45 MPH	
	8-1045 MPH. 40 MPH	•
	Steam switch engines, without engine trucks, under all conditions	•
Sec.	660 HP diesel-electric switch engines,	
	Nos. 125 to 130 inc	•
	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:	
	All A and Q and classes Z-6, Z-7 and Z-8	•
	S-4, T, T-1, W to W-5 inc., Y-2	•
	Z-3, Z-4	•
	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. 25 MPH. All other classes. 20 MPH.
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 Handows annution to the 11 '1

2. 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

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.

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.

- 3. Rule D-97 applies to all subdivisions.
- 4. 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 drawbridges operated by the Northern Pacific Railway.
- 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 making test.
- 7. Gas-electric motor cars, when handled dead in freight trains, must be behind caboose. Scale test cars must be handled only in local freight trains, and placed immediately ahead of the caboose. Cranes or similar machines geared for self-propulsion moving on commercial billing, must not be handled in time freight trains.

- 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.
- 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 "process". 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.
- Instructions For Signal Operation At Spring Switches Equipped For Switch Key Operation—Unless otherwise provided, the normal position of the spring switch is for main track. The normal indication of main track signals 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 move-ment, 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.
- 11. Pusher engines must not push on cabooses not equipped with steel
- Second class, inferior trains, and engines may run ahead of delayed first class trains without train order authority. Flagman must be stationed on the rear car, at all times, 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.
- 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.
- 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 Com-16. pany'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.
- 17. Bulletin Stations-

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

Superior. Soo Line Yard and Roundhouse.

18. Standard Time Clocks-

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

19. Watch Inspectors-

FIRST SUBDIVISION

	W 9		
1.	Speed Restrictions—	Freight	Passenger
	Zone-Between:	and Mixed	
	East D. M. & I. R. Jct., and West Duluth J	ct. 30 MPH.	30 MPH
	Over 21st Avenue West Crossing		15 MPH.
	West Duluth Jct., and Fond du Lac		15 MPH.
100	Fond du Lac and Upper Power Plant		8 MPH.
	First class trains, within yard limits	Restric	

- 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., Between West Duluth Junction and Fond du Lac-engines heavier than Class Q-4 not permitted. Between Fond du Lac and upper Power Plant-engines heavier than Class L-9 not permitted.
- At Fifth Avenue West-Normal position of main track switch is for Union Depot.
- 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
 - D. M. & I. R. yard to Martins track. Martins track to westward main. 000 0 0 0-

 - oooo Martins track to D. T. main.
 - D. T. main to Martins track. 0000
 - Westward main to D. M. & I. R. yard. -- 0 **—** o 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.
- 10. 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
- 11. Derail Switches-Duluth-House Track No. 4. Fond du Lac, on main track.
- 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 Duluth first class trains arriving may register by Form 608, using tube at foot of east stairway for delivery to operator in "DU" office. 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 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

ı.	Speed Restrictions—		Passenger
	Zone—Between:	and Mixed	
	Garfield Ave., and Central Ave	50 MPH.	60 MPH.
	Superior and Central Ave., Great Northern		
	engines class P-2	40 MPH.	40 MPH.
	Trains handling loaded ore cars	40 MPH.	
	At Superior-Over switches at Belknap Street		
	and Omaha Conn	15 MPH.	15 MPH.
	At Central Ave.—Over highway crossings	20 MPH.	20 MPH.
	At Central Ave.—Over highway crossings First class trains, within yard limits	Restric	ted Speed.

- 3. 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 C yard lead (top switch). when lined for B yard lead; No. 26 and 31 crossovers on Hump

No. 26 and 31 crossovers on Load
(B Yard) lead.........when lined for Load (B Yard) lead.
North End Rice's Point Yard,

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.

 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.
- 7. 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

- 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, NP cranes 45, 46, 47 or 48.
 Bridge 94.6, Grassy Point.
 MPH.
- 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.
- 5. Derails-Winter St. just east of junction with Second Subdivision.
- 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

- 3. 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. 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.
- 7. Register Stations:

Central Ave. Soo Line 21st St. Yard Office, Superior, for D. S. S. & A. Ry.

- 8. 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. J. A. Evert,	Assistant Surgeons,
Dr. A. McEwan,	Assistant ourgeons,
Dr. C. H. Decker,	N. P. B. A. Hospital,
Dr. W. J. Gjerde,	St. Paul.
Dr R W Dickman	the same of the sa

SPECIALISTS

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

SURGEONS

Dr. J. W. McGill	1225 Tower Ave., Superior
Dr. Victor E. Ekblad	1507 Tower Ave., Superior
Dr. C. M. Smith	15 Medical Arts Bldg., Duluth
Dr C. L. Haney	2004 West Superior St., Duluth
Dr. C. L. Haney	06 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. Jot., 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.

	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	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 Jet. 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										and the	
	HEIGHT ABOVE TOP OF RAIL											
	25 T MI	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	
st 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 Jet. to Superior U. D.		20′ 3″	20' 3"	20' 3"	20′ 3″	20′ 8″	20′ 3″	20′ 3″	20′ 3″	20′ 8″	11' 6"	
th 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.

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