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 45
0	47	<u>76</u> .6	1	20	45
Ō	48	75	1	25	42.8
Õ	49	73.5	1 1 1	80	40 86
Ō	50	72	1	40	86
0	51	70.6	1	45	84.8
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1	52 53	69.2	1	50	82.7 80
Q	อิล	67.9	Z	::	80
Õ	54	66.6 65.4 64.2	2	10	27.6
ň	55	65.4	<u>z</u>	15	26.6 25.7
Ň	55 56 57	04.Z	Z	20	20.7
Ϋ́	07	68.1		80	24 22.5
V	58 59	62.0	5	40 45	22.0 91 0
¥	99	01.0	6	50	21.8 21.2
1	•;	50 50	6	00	90.2
†	9	61.0 60 59 58			20 19
1	4	57.1	l ğ	20	18
1	Å	K6.2	l š	8 1	17
ī	ĸ	56.2 55.8	l ž	45	īġ
i	Ä	54.5	1 1		16 15
Ť	· 7	58.7	l Ē	••	12
ī	1 2 8 4 5 6 7 8 9	58.7 52.9 52.1	112222222222888884567	• •	10
ī	ğ	52.1	l Ť	80	-š
ī	10	51.4	10		8

NORTHERN PACIFIC RAILWAY COMPANY

Duluth and Superior Terminals

TIME TABLE 245

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

Sunday, May 26, 1957

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.

W. L. WOOD, Superintendent.

D. A. THOMSON, General Manager. E. S. ULYATT, General Superintendent of Transportation.

2	W	EST	WARD				FIR	ST SU	BDIVI	SION				
							FIRST	CLASS					Jot.	Time Table No. 245
Turn Tables, Wyes and Yard Limits.	Δ.	oberra.		65	303	201	57	19	61	35	55	23	Distance from East D. M. & I. R.	May 26, 1957
aples 17	Car Capacity of Sidings.	Station Numbers			D. W. & P. 619	D.M.&I.R.		G. N.		G. N. 85		G. N. 28	M.	
EX	S	tou		Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	etan et D	STATIONS
F a	ପ୍ରିଟି	36		Daily	Ex. Sun.	Daily	Daily	Daily	Ex. Sun.	Ex. Sun.	Daily	Daily	五路	Telegraph Offices and Calls
													0.0	EAST D. M. & I. R. JCT
TW XYZ	Yard	WB 71		L 11.15PM		L 8.15 PM	L 6.05PM	L 3.30PM	L 1.30PM	L 7.30AM	L 7.25 AM	E 7.00 AM	0.9	DUDULUTHDN
X	1 2014				L 8.04 PM	8.18		A 3.32 PM		A 7.32 AM	7.27 AM	A 7.02 AM	1.9	GARFIELD AVEP
<u>x</u>		L02		11.22	8.07	A 8.21 PM			1.35				2.8	WEST D M O. L D TOT
<u>x</u>													3.6	SOO LINE CROSSING
x				11.25	A 8.15PM				1.38				4.5	0.6
x		L04		s 11.29					s 1.40	,			5.1	WUWEST DULUTHDNWEST DULUTH JCTP
WXY		L 5		A 11.35 PM					A 1.42 PM				5.9	V.0
x											·		6.7	1.1
		TR/	AINS US	ING D.	T. RAIL	WAY WE	ST OF 7 Etable	2ND AV AND SF	E. WEST ECIAL I	WILL I	BE GOVE	RNED B	Y D. I	M. & I. R. RY.,
		LB1						-					7.8	RIVERSIDE JCT
	18	LB2											8.2	RIVERSIDE
	18	LB5											12.5	NEW DULUTH
				Daily	Ez. Sun.	Daily	Daily	Daily	Ex. Sun.	Daily	Ex. Sun.	Daily		
				.20	.11	.06	.02	.02	.12	.02	.02	.02		Time Over Subdivision
				15.0	14.2	19.0	30.0	80.0	25.0	30.0	30.0	30.0		Average Speed Per Hour

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

SPECIAL INSTRUCTIONS PAGES 6, 7, 8, 9, 10 AND 11.

				1	FIRST	SUBDI	VISION				EASTW	ARD
	Time Table No. 245					FII	RST CLA	SS				
8	May 26, 1957	66	36	58	202	24	304	62	20	56		
Distance from New Duluth			G. N.		D.M.&I.R.	G. N.	D. W. & P.		G. N. 20			
stanc w D	STATIONS	Passenger	Passenger	Passenger		Passenger	Passenger	Passenger	Passenger	Passenger		
đẳ	Telegraph Offices and Calls	Daily	Ez. Mon.	Daily	Daily	Daily	Ex. Mon.	Ez. Sun.	Daily	Daily		
12.5	EAST D. M. & I. R. JCT											
1.6	DUDULUTHDN	A 4.25 AM	A 6.48 AM	A 7.30 AN	A 9.30 AM	A 11.58 AM		A 12.30 PM	A 6.45 PM	A 10.55PM		
0.6	GARFIELD AVE. P	4.11	L 6.43 AM	L 7.25 AM	9.27	L 1.56 AN	A 12.27PM	12.25	L 6.43 PM	L 10.47 PM		
9.7 8.9 8.0	WEST D. M. & I. R. JCT.	4.05			L 9.24 AM		12.22	12.22				
8.9	.soo Line crossing.											
	[4.00					L 12.17₽	12.18				
7.4 6.6	WU WEST DULUTHON	s 3.58						s 12.16				
6.6	WEST DULUTH JCT.P	L 3.49 AM						L 12,14mm				
5.8	72ND AVE. W											

TRAINS USING D. T. RAILWAY WEST OF 72ND AVE. WEST WILL BE GOVERNED BY D. M. & I. R. RY., TIMETABLE AND SPECIAL INSTRUCTIONS.

	RIVERSIDE											
		Daily	Ex. Mon.	Dally	Daily	Daily	Ex. Mon.	Ex. Sun.	Daily	Daily		
	Time Over Subdivision	.36	.05	.05	.06	.02	.10	.16	.02	.08		
	Average Speed Per Hour	8.3	12.0	12.0	19.0	80.0	15.6	18.8	80.0	7.5		

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

SPECIAL INSTRUCTIONS PAGES 6, 7, 8, 9, 10 AND 11.

						FIRST	CLASS	·					Time	Table	No. 24	5
					89	57	19	93	35	55	23	65		May 26,		
					Omaha 510		G. N. 19	Omaha 512	G. N. 85		G. N. 28					
				:	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	S	TATI	ONS	
					Daily	Daily	Daily	Daily	Ez. Sun.	Daily	Daily	Daily	Telegr	aph Office	and Calls	
						L 6.07PM	L 3.32 PM		L 7.32 AM	L 7.27A	L 7.02 AM			ARFIELD	AVE	<u>P</u>) U
						6.09	3.34		7.34	7.29	7.04			RICES PO	INT	Pe
_	_				L 8.22 PM	6.10	3.36	L 4.41 PM	7.36	7.31	7.06			RIDGE SV		- []
	-		-		8.25	6.13	3.40_	4.45	7.39	7.34_	7.10			VATOR S 0.7- DMAHA C		- <u>\$</u>
_					A 8.28 PM	6.15	3. 42	А 4.47 ра	7.42	7.36	7.1 2			0.8	OAR	/
			ı	BETWEEN OM/ WILL BE	AHA CON Govern	NECTIO ED BY L	N AND E	BELKNAP T. RY. 1	STREET	T TRAIN BLE AN	IS USING D SPECI	G L.S.T. Al inst	. & T. RA Ructio	NILWAY NS.		
_	-				-	s 6.16	s 3.45		s 7.45	7.39	s 7.15	L .5 PM	BY	UPERIOR		
_	-		-		<u> </u>	6.18	3.46		7.46	7.40	7.16	11.53 PM Asi2.02 AM	e de la compa	BELKNAP	STP	F Dog
	-					A 6.26 PM	A 3.53 PM		A 7.53 AM	As 7.48 AM	A 7.23 AM	AS12.U2AM	¬⊞ (AJ(PENIKAL	AVEDN	7 所書
_		_			Daily	Daily	Daily	Daily	Ez. Sun.	Daily	Daily	Daily				
					.06	.19	.21	.06	.21	.21	.21	.11	Tir	ne Over Su	aoisivibo	
					16.0	23.3	21.1	16.0	21.1	21.1	21.1	22.8	Ave	rage Speed	Per Hour	
PI	ERAT	TION	4 OVI	TRAINS ARE ER MINNESOT D. FIRST CLAS	SUPERIO A DRAW	ON ST. I	OUIS R	IVER BR	IDGE. B	WEEN O	MAHA C	E SWITC	CH AND	BELK!	OR STA	REET
P!	ERAT	TION	4 OVI	ER MINNESOT	SUPERIO A DRAW S TRAINS	ON ST. I S USE L.	SECC	OND SU	IDGE, BIVAY BET	SION	FIRST	CLASS	H AND	ELEVATO BELK	OR STA	REET
11.	ERAT NTEF	TION RLO	CKE	ER MINNESOTA D. FIRST CLAS Time Ta	SUPERIO A DRAW S TRAINS	ON ST. I S USE L.	OUIS R	OND SU	JBDIVI 94	WEEN O	FIRST	CLASS 96	20	BELK!	OR STA	REET
Lamade.	ERAT NTEF	Mumbers.	CKE	ER MINNESOTA D. FIRST CLAS Time Ta	SUPERIO A DRAW S TRAIN:	ON ST. I S USE L.	SECC	OND SU	IDGE, BIVAY BET	SION	FIRST	CLASS	H AND	ELEVATO BELK	OR STA	REET
	ERAT NTEF	Mumbers.	CKE	Time Ta	SUPERIO A DRAW S TRAIN ble No. 26, 1957	245	SECC	OND SU	UBDIVI 94 Omaha 511	SION	FIRST 24 G. N.	CLASS 96 Omaha 518	20	ELEVATO BELK	OR STA	REET
	ERAT	TION RLO	Distance from Ave.	Time Ta May S T A	SUPERIO A DRAW S TRAIN: ble No. 26, 1957	245	SECC	ND SU 36 G. N. 36 Passenger Ex. Mon.	UBDIVI 94 Omaha 511 Passenger Daily	SION 58 Passenger Daily	FIRST 24 G. N. 24 Passenger Daily	CLASS 96 Omaha 618 Passenger Daily	20 G. N. 20 Passenger Daily	BELKN BELKN Passenger Daily	EASTW	REET
BUILT TAILE STATE OF	Car Capacity of Sidings.	Station Numbers.	Distance from Central Ave.	Time Ta May S T A Telegraph (SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S	245	SECCO Passenger	ND SU G. N. 36 G. N. 86 Passenger Ex. Mon. A 6.43 M	UBDIVI 94 Omaha 511 Passenger Daily	SION 58 Passenger Daily A 7.25 A	FIRST 24 G. N. 24 Passenger Daily A 11.56 M	CLASS 96 Omaha 618 Passenger Daily	20 G. N. 20 Passenger Daily A 6.43 PM	ELEVATO BELKIN 56 Passenger Daily A 10.47PM	EASTW	REET
A BUIL LAILE CO.	Car Capacity of Sidings.	Mumbers.	2 h Distance from Central Ave.	Time Ta May S T A Telegraph (SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and of the control of	245	SECCO Passenger	ND SU 36 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40	BDIVI 94 Omaha 511 Passenger Daily	SION 58 Passenger Daily A 7.25 M 7.23	FIRST 24 G. N. 24 Passenger Daily A 11.56 M	CLASS 96 Omaha 513 Passenger Daily	20 G. N. 20 Passenger Daily A 6.43 Pl 6.41	Passenger Daily A 10.47 PM	EASTW	REET
South and I are talling.	Car Capacity of Sidings.	Station Numbers.	CKE Distance from Central Ave.	Time Ta May S T A Telegraph (SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and G IELD AVE. 0.7 S POINT.	245 Calls P	SECCO Passenger Daily	ND SU 36 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38	BDIVI 94 Omaha 511 Passenger Daily	SION 58 Passenger Daily A 7.25M 7.23 7.22	FIRST 24 G. N. 24 Passenger Daily A 11.56 M 11.54	CLASS 96 Omaha 518 Passenger Daily	20 G. N. 20 Passenger Daily A 6.43 m 6.41 6.39	Passenger Daily A 10.47PM 10.44	EASTW	REET
STATE AND I SEC LAIRIUS.	Car Capacity of Sidings.	Station Numbers.	CKE. Distance from 6.7 Central Ave.	Time Ta May S T A Telegraph (GARF BRIDG	SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and of IELD AVE. 0.7 0.8 WITCH 0.0.9 DR STATIO	245	SECCO Passenger Daily	CANDER BRITER BR	Daily A 7.28 M 7.24	SION 58 Passenger Daily A 7.25 M 7.23 7.22 7.18	FIRST 24 G. N. 24 Passenger Daily 11.56 M 11.52 11.47	CLASS 96 Omaha 618 Passenger Daily 1.59 At 12.02 PM	20 G. N. 20 Passenger Daily A 6.43 Pl 6.39 6.34	ELEVATO BELKIN Fassenger Daily A 10.47PM 10.44 10.42 10.39	EASTW	REET
Sand I sand Tallians.	Car Capacity of Sidings.	Station Numbers.	OVE 1 Distance from to Control V.4 6.7 6.1 5.2 4.5	Time Ta May S T A Telegraph (SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and O IELD AVE. -0.7 -0.8 E SWITCH -0.9 DR STATIO -0.7 TAI CONN	245	SECCO Passenger Daily	T. RAILW OND SU 3 6 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35 6.32	Passenger Daily A 7.28 M 7.24 L 7.22 M	ETWEEN O SION 58 Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15	FIRST 24 G. N. 24 Passenger Daily 1.56 M 11.52 11.47	CLASS 96 Omaha 513 Passenger Daily 11.59 Ass L 11.56 Ass	20 G. N. 20 Passenger Daily A 6.43 Pl 6.41 6.39 6.34 6.31	ELEVATO BELKINI I I I I I I I I I I I I I I I I I I	EASTW	REET
TAC BUT I BUT TAURIO	Car Capacity of Sidings.	Station Numbers.	OVE Notation of the Control Ave. 6.1 6.2 4.5 4.5	Time Ta Time Ta May S T A Telegraph (SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and of IELD AVE. -0.7 S POINT. -0.8 E SWITCH -0.9 OR STATIO -0.9 HA CONN. 0.3	245 Calls INECTIO	SECCO Passenger Daily N AND 1 S. T. &	DND SU 3 6 G. N. 86 Passenger Ex. Mon. A 6.43 Au 6.40 6.38 6.35 6.32 BELKNAI	Daily A 7.28 M T.24 T.22 M P STREE	ETWEEN O SION 58 Passenger Daily A 7.25 A 7.23 7.22 7.18 7.15	FIRST 24 G. N. 24 Passenger Daily 11.56 M 11.52 11.47 11.45	CLASS 96 Omaha 513 Passenger Daily A 12.02 PM 11.56 AM G L. S. T.	20 G. N. 20 Passenger Daily A 6.43 PM 6.41 6.39 6.34 6.31	ELEVATO BELKIN 56 Passenger Daily A 10.47PM 10.44 10.42 10.39 10.36	EASTW	REET
TAC BUT I BUT TAURIO	Car Capacity of Sidings.	Station Numbers.	OVE Notation of the Control Ave. 6.1 6.2 4.5 4.5	Time Ta May S T A Telegraph (RICE BRIDG BRIDG CHEVATO BRIDG BRIDG BRIDG BRIDG BRIDG BRIDG	SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and of IELD AVE. 0.7 O-0.9 TO STATIO 0.7 HA CONN. 0.8 AHA CON GOVERN RIOR U. D.	245 Calls INECTIO	SECCO Passenger Daily N AND 1 S. T. &	DND SU 3 6 G. N. 86 Passenger Ex. Mon. A 6.43 Au 6.40 6.38 6.35 6.32 BELKNAI	P STREE	ETWEEN O SION 58 Passenger Daily A 7.25 A 7.23 7.22 7.18 7.15	FIRST 24 G. N. 24 Passenger Daily 11.56 M 11.52 11.47 11.45 NS USING	CLASS 96 Omaha 513 Passenger Daily A 12.02 PM 11.56 AM G L. S. T.	20 G. N. 20 Passenger Daily A 6.43 m 6.41 6.39 6.34 6.31	ELEVATO BELKIN 56 Passenger Daily A 10.47PM 10.44 10.42 10.39 10.36	EASTW	REET
NA BANG TARION.	Car Capacity of Sidings.	Bestion Mumbers.	OVE Notation of the Control Ave. 6.1 6.2 4.5 4.5	Time Ta May S T A Telegraph (BRIDG BRI	SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and office and off	245 Calls INECTIO	SECCO 66 Passenger Daily N AND I	DND SU 3 6 G. N. 86 Passenger Ex. Mon. A 6.43 Au 6.40 6.38 6.35 6.32 BELKNAI	P STREE	Passenger Daily A 7.25M 7.23 7.22 7.18 7.15 T TRAIRBLE AN	FIRST 24 G. N. 24 Passenger Daily 11.56 M 11.52 11.47 11.45 NS USING	CLASS 96 Omaha 513 Passenger Daily A 12.02 PM 11.56 AM G L. S. T.	20 G. N. 20 Passenger Daily A 6.43 m 6.41 6.39 6.34 6.31	ELEVATO BELKIN 56 Passenger Daily A 10.47PM 10.44 10.42 10.39 10.36 AILWAYNS.	EASTW	REET
NA STREET	Car Capacity of Sidings.	RLOO (Nampess:	CKE Distance from	Time Ta Time Ta May S T A Telegraph (SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and office and off	245 Calls INECTIO	SECCO 66 Passenger Daily N AND I	T. RAILW OND SU 3 6 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35 6.32 BELKNAI T. RY. M s 6.30	P STREETIME TA	Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15 T TRAIP BLE AN s 7.14 7.10	FIRST 24 G. N. 24 Passenger Daily 1.56 11.52 11.45 NS USING SPECI 1.43	CLASS 96 Omaha 513 Passenger Daily 11.59 All L 11.56 All G L. S. TAL INST	20 G. N. 20 Passenger Daily A 6.43 Pl 6.41 6.39 6.34 6.31 8 T. RA RUCTIO	ELEVATO BELKIN 56 Passenger Daily A 10.47 PM 10.44 10.42 10.39 10.36 AILWAY NS. 10.34	CASTW	REET
NA STREET	Car Capacity of Bidings.	RLOO (Nampess:	0VCKEI mout sound on the state of the state	Time Ta May S T A Telegraph (BRIDG BRI	SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and office and off	245 Calls INECTIO	SECCO 66 Passenger Daily N AND 1. S. T. & As 3.26a 3.24 L 3.15a	T. RAILW OND SU 3 6 G. N. 86 Passenger Ex. Mon. A 6.43 Au 6.40 6.38 6.35 6.32 BELKNAI T. RY. M 5 6.30 6.25 M L 6.20 Au	P STREETIME TA	Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15 T TRAIP BLE AN 5 7.14 7.10 L 7.05 M	FIRST 24 G. N. 24 Passenger Daily A 11.56 M 11.54 11.45 NS USING D SPECI 11.43 11.40 L 11.33 M	CLASS 96 Omaha 518 Passenger Daily 11.59 M L 11.56 M G L. S. T. AL INST	20 G. N. 20 Passenger Daily A 6.43 PM 6.41 6.39 6.34 6.31 8 T. RA RUCTIO s 6.30 6.24 L 6.19 PM	ELEVATO BELKN Fascenger Daily A 10.47PM 10.44 10.42 10.39 10.36 ALWAY S 10.34 10.31 L 10.25PM	CASTW	REET
STATE TARGET	Car Capacity of Bidings.	RLOO (Nampess:	0VCKEI mout sound on the state of the state	Time Tales May STA Telegraph C BRIDG BRI	SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and office and off	245 Calls INECTIO	SECCO SECCO ASSECT Passenger Daily N AND I. S. T. & L 3.15A Daily Daily	T. RAILW DND SU 3 6 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35 6.32 BELKNAR T. RY. M 5 6.30 6.25 M L 6.20 M Ex. Mon.	P STREETIME TA	Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15 T TRAIP BLE AN s 7.14 7.10	FIRST 24 G. N. 24 Passenger Daily 11.56 M 11.52 11.47 11.45 NS USING D SPECI 11.40	CLASS 96 Omaha 513 Passenger Daily 11.59 All L 11.56 All G L. S. TAL INST	20 G. N. 20 Passenger Daily A 6.43 Pl 6.41 6.39 6.34 6.31 8 T. RA RUCTIO	Daily A 10.47 PM 10.44 10.42 10.39 10.36 AILWAY NS. 10.31 L 10.25 PM Daily	CASTW	REET
and Yard Limits.	Car Capacity of Bidings.	RLOO (Nampess:	0VCKEI mout sound on the state of the state	Time Ta May STA Telegraph (GARFI BRIDG BRIDG	SUPERIO A DRAW S TRAIN: ble No. 26, 1957 T I O N S Offices and G IELD AVE. -0.7 O.8 E SWITCH -0.8 STATIO -0.9 STATIO -0.8 GOVERN RIOR U. D. -0.8 SIOR U. D. -0.8 SIOR U. D. -0.8 RIOR U. D. -0	245 Calls Calls INECTIO ED BY I	SECCO Begin Section of the section	T. RAILW OND SU 3 6 G. N. 86 Passenger Ex. Mon. A 6.43 Au 6.40 6.38 6.35 6.32 BELKNAI T. RY. M 5 6.30 6.25 M L 6.20 Au	P STREETIME TA	ETWEEN O SION 58 Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15 T TRAIP BLE AN s 7.14 7.10 L 7.05 M Daily	FIRST 24 G. N. 24 Passenger Daily 1.56 11.52 11.45 NS USING D SPECI 1.40 1.1.33 1.40 Daily Daily	CLASS 96 Omaha 513 Passenger Daily 11.59 All L 11.56 All G L. S. T. AL INST	20 G. N. 20 Passenger Daily A 6.43 Pl 6.41 6.39 6.34 6.31 8 T. RA RUCTIO s 6.30 6.24 L 6.19 Pl Daily	ELEVATO BELKN Fascenger Daily A 10.47PM 10.44 10.42 10.39 10.36 ALWAY S 10.34 10.31 L 10.25PM	CASTW	REET

Speed Restrictions-

SPECIAL INSTRUCTIONS

ALL SUBDIVISIONS.

Speed Restrictions—	1 - 1	
Maximum Speeds Permitted: Passenger trains Freight and mixed trains	.75 MPH.	
The above speeds are subject to the restrictions of maxim	um speeds	
in miles per hour as shown by zones under each subdivision. Where automatic block and interlocking rules and signal in		
require movement at restricted speed, such movement mus	st be made	
prepared to stop short of train, obstruction or switch no	t properly	
lined and be on lookout for broken rail or anything the quire the speed of a train to be reduced, but a speed of	t may re-	
must not be exceeded.		
The definition of Restricted Speed, as designated on pag 1945 Edition of the Consolidated Code of Operating 1	Kules. will	
continue to apply except where automatic block and in rules and signals govern as specified above.	iterlocking	
Reduce speed limits, within the zones listed, are design advance-warning signs (diagonally upwards), Reduce stages (square with clipped corners) and Resume speed signs (vertex).	peed signs ertical).	
The Advance-warning signs are, except as otherwise specific approximately 3000 feet in advance of the Reduce speed the numerals on both signs indicate in miles per hour the speed permitted from the Reduce speed sign to another Rellimit, or to a sign indicating a higher speed, or to a Resume state.	signs, and maximum duce speed	
If speeds authorized by zones or by Reduce speed signs a than that prescribed below for certain trains or engines, s or engines must not exceed the prescribed speeds.	are greater such trains	
Locations where reduced speeds are required, but not inc signs, are listed under the zones of maximum speeds per	dicated by mitted for	
each subdivision. All trains and engines, except as otherwise specified:		
Through crossovers, turnouts and gantlets.		
except where fixed signals provide otherwise	.15 MPH.	
Handling steam wrecking cranes, pile drivers, locomotive cranes and similar equipment	.30 MPH.	
Handling 4-wheel scale test cars Main Line	.35 MPH.	
and scale test car 254\Branch Lines Picking up train orders from operators	.25 MPH. 30 MPH	
Engines— Handling Classes— trains	light.	
All A and Q (except on passengertrains where higher speed is authorized)60 MPH.	.60 MPH	
trains where higher speed is authorized)60 MPH. Z6, Z-7 and Z-860 MPH.	50 MPH.	
Y, Y-1	35 MPH.	
Y, Y-1	45 MPH.	
Steam switch engines, without engine trucks, under all conditions	15 MPH.	
All other steam engines, backing up30 MPH.	30 MPH.	
(This restriction does not apply when engines are used		
not on head end of train.)	as helpers	
Diesel-electric engines—	as helpers	
Diesel-electric engines—	as helpers 35 MPH.	
Diesel-electric engines— No. 98	as helpers 35 MPH. 45 MPH.	
Diesel-electric engines— 35 MPH. No. 98. 35 MPH. 400, 600 and 700 series. 45 MPH. No. 525. 60 MPH. No. 100. 40 MPH.	as helpers 35 MPH.	
Diesel-electric engines— 35 MPH. No. 98. 35 MPH. 400, 600 and 700 series. 45 MPH. No. 525. 60 MPH. No. 100. 40 MPH. 100 series and No. 800 to No. 803. incl.	35 MPH. 45 MPH. 60 MPH. 40 MPH.	
Diesel-electric engines— 35 MPH. No. 98	35 MPH. 45 MPH. 60 MPH.	
Diesel-electric engines— 35 MPH. No. 98. 35 MPH. 400, 600 and 700 series. 45 MPH. No. 525. 60 MPH. No. 100. 40 MPH. 100 series and No. 800 to No. 803, incl., except No. 100. 60 MPH. 500, 501 and 552 to 569, incl. 65 MPH. 6000, 7000, 200, 300, 850 and 860 series, except No. 244 and No. 245. 65 MPH.	35 MPH. 45 MPH. 60 MPH. 40 MPH.	
Diesel-electric engines— 35 MPH. No. 98. 35 MPH. 400, 600 and 700 series. 45 MPH. No. 525. 60 MPH. No. 100. 40 MPH. 100 series and No. 800 to No. 803, incl., 60 MPH. 500, 501 and 552 to 569, incl. 65 MPH. 6000, 7000, 200, 300, 850 and 860 series, except No. 244 and No. 245. 65 MPH. No. 244. No. 245, 6500, 6600 and 6700	35 MPH. 45 MPH. 60 MPH. 40 MPH. 60 MPH. 65 MPH.	
Diesel-electric engines— 35 MPH. No. 98. 35 MPH. 400, 600 and 700 series. 45 MPH. No. 525. 60 MPH. No. 100. 40 MPH. 100 series and No. 800 to No. 803, incl., except No. 100. 60 MPH. 500, 501 and 552 to 569, incl. 65 MPH. 6000, 7000, 200, 300, 850 and 860 series, except No. 244 and No. 245. 65 MPH.	35 MPH. 45 MPH. 60 MPH. 40 MPH. 60 MPH. 65 MPH.	
Diesel-electric engines— 35 MPH. No. 98	35 MPH. 45 MPH. 60 MPH. 40 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH.	
Diesel-electric engines— 35 MPH. No. 98	35 MPH. 45 MPH. 60 MPH. 40 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH.	
Diesel-electric engines— No. 98	35 MPH. 45 MPH. 60 MPH. 60 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH.	
Diesel-electric engines— 35 MPH. No. 98. 35 MPH. 400, 600 and 700 series. 45 MPH. No. 525. 60 MPH. No. 100. 40 MPH. 100 series and No. 800 to No. 803, incl., 60 MPH. except No. 100. 60 MPH. 500, 501 and 552 to 569, incl. 65 MPH. 6000, 7000, 200, 300, 850 and 860 series, 65 MPH. No. 244, No. 245, 6500, 6600 and 6700 800, 800, 800, 800, 800, 800, 800, 800 Series. 75 MPH. 5400 series. 55 MPH. No. 550 and No. 551. 75 MPH. Diesel-electric and gas-electric motor cars, in service or bein Car B-13. 600, 800, 800, 800, 800, 800, 800, 800,	35 MPH. 45 MPH. 60 MPH. 60 MPH. 65 MPH.	
Diesel-electric engines— No. 98	35 MPH. 45 MPH. 60 MPH. 60 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH. 65 MPH. 55 MPH. 65 MPH. 55 MPH. 55 MPH. 35 MPH.	

Main Line—With main and side rods removed: All A and Q and classes Z-6, Z-7 and Z-8	MPH. MPH.
With main rods removed and side rods in place: All A and Q and classes Z-6, Z-7 and Z-8	МРН. МРН.
Branch Lines—With either or both main and side rods removed:	
All A and Q classes	мрн.
All other classes	MPH.
On bridges—With either or both main and side rods ren Steam switch engines, without engine trucks15 Other Steam engines20	MPH.
In the event the above speeds are in excess of 50% of the p sible speed for operating the engine in working order over bridge carrying speed restrictions, speed on such bridges be 50% of the permissible speed for engine in working order.	er any shall
Dead at a series wine to about on heing transferred from	

Dead steam 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.

2. 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.

When two, Four-Unit Diesel locomotives are used to double head freight trains, the leading engine only will apply power to start train, or to make backup movement with cars.

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 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.

When two or more Diesel units are coupled in multiple unit operation, the number of the leading unit only will be displayed in accordance with the provision of Rule 24 and used in train orders as prescribed by Rule 206.

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

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 headlight 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 emer-

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.

An oscillating rear end red light on Great Northern passenger trains using Northern Pacific tracks between Duluth and Central Avenue, is used except-

When train is standing at the initial and terminal stations. When switching is to be performed from rear end of train.

When train is on siding to be passed by another train.

When operating in double track or in territory where another train is approaching from the rear on an adjacent track, but not until the flagman has definitely ascertained that the approaching train is running on the adjacent track.

Engineer of an approaching train finding such rear end oscillating red light displayed must immediately stop and, if running on an adjacent track, will not proceed until it has been ascertained that track is clear, and will then proceed at restricted speed until train has been passed.

Rule 6(A) is modified to include the following variations of the letter "W" which indicate:

"W" (full-faced type) - Water facilities for both steam and Diesel

power.

-Water facilities for steam power only. (capital type) -Water facilities for Diesel power only. (small type)

Rule 19, Figs. 2 to 9, inclusive, and Rule 19 (B) of the Consolidated Code of Operating Rules and General Instructions, revised 1945, are supplemented as follows:

"When the rear unit of a train is equipped with built-in electric markers, or electric signal lamps, they must be lighted by day and by night to be considered as markers, and the requirement for showing green to the front or direction of movement and green to the side will not apply.

"Train crews arriving at terminals must not extinguish the built-in markers, or electric signal lamps used as markers, until the train has been delivered to connecting crew or is clear of the main track and the switch is closed."

- 6. Rule D-97 applies on all Sub-divisions.
- Rule 606: Emergency Signals are not used at inter-lockings or draw-bridges operated by the Northern Pacific Railway.
- 8. 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 must be handled only in local freight trains. All scale test cars must be placed immediately ahead of caboose.

Instructions for Handling Pile Drivers, Cranes, Derricks, Shovels or Similar Equipment of the Swinging or Pivoting Type are as follows:

- When such equipment is moved on their own wheels they shall be prepared and carded in accordance with current A. A. R. Loading Rules unless some condition exists which prevents those requirements being complied with.
- Equipment properly prepared and carded may be moved at normal freight train speeds unless there is some condition that prevents it, and in that event the maximum permitted speed shall be noted on the waybill.
- Such equipment when not prepared and carded shall be handled at speeds not to exceed 30 miles per hour.
- Such equipment that is geared for self-propulsion shall have the driving gears disconnected or removed.
- Such equipment that is Company-owned that requires speed to be restricted shall be covered by a message to the train crew stating the maximum speed permitted.

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.

- 9. 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.
- Locomotives and cars equipped with roller bearings shall not be allowed to stand alone without brakes being applied.

Roller bearing failures on cars or locomotives equipped with roller bearing boxes may be due to lack of oil or grease. If the box is not blazing, the oil plug in the cover should be removed and heavy oil added and plug replaced. Oil must never be added to a box that is blazing. Grease lubricated roller bearing boxes have grease plugs locked with a metal strap which must be cut off with chisel before plug can be removed. In case of a hot box, oil should be added and the plug replaced; train should proceed at reduced speed and care exercised until it is apparent the box is running cool.

When operating B-24, B-16, or Budd R. D. C. Car in Automatic Block Signal territory, or on crossing protected by electric signals, engine must be moved at least one car length after making station stop where sand was used.

Electric Switch Locks—Two types in service—To operate either type, unlock and open the door.

On locks stenciled "FORCE DROP LOCK", turn lock handle to the plate reading "MOVE LEVER HERE AND WAIT FOR UNLOCK", then follow instructions in sections (a) (b) (c) (d).

On other electric locks, follow instructions in sections (a) (b) (c) (d) after door is opened.

- If indicator shows proceed or "UNLOCKED": Turn lock handle to left until it rests on stop block. Line switch in usual manner and movement may be made at once
- (b) If indicator shows stop or "LOCKED" and no conflicting train movement is evident.

Unlock time release box (if provided) and push the button to start time release. After time release has completed operation, indicator will normally show proceed or "UNLOCKED".

Turn lock handle to left until it rests on stop block.

Line switch in usual manner and movement may be made at

(c) After final movement over switch is made:

Restore and lock switch in normal position.

Turn electric lock handle to right until it rests on stop block.

Close and lock doors of time release box (if provided) and 19. Standard Time Clockselectric lock.

Exception-If indicator fails to show proceed or "UNLOCK-ED" after time release (if provided) has completed operation, and if electric lock is provided with emergency release located at left of indicator:

Remove wire seal and operate emergency release lever.

Wait three (3) minutes after operating emergency release lever, then line switch for movement in usual manner.

Immediately notify train dispatcher so he may call signal maintainer to reset emergency release, as 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. First class trains will observe Rule 93 the same as is required of second and inferior class, extra trains and engines. Second and inferior class, extra trains and engines may run ahead of first class trains which are five minutes or more late without train order authority, avoiding delay to such trains to the greatest practicable extent.
- Extra trains and engines may move in either direction on single track and with the current of traffic on double track without train order or double track clearance authority, except between 72nd Ave. West and New Duluth.
- 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.
- 17. 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.
- 18. Bulletin Stations-

Duluth. Union Depot, Fifth Avenue Yard Office, Rices Point Yard and Roundhouse, West Duluth Roundhouse. Soo Line Passenger Station.

Superior. Soo Line Yard and Roundhouse.

- Duluth-Union Depot, Rices Point Yard Office and Round
- 20. Watch Inspectors-Duluth-

Kanter Jewelers, 325 W. Superior Erwin Moen, 1908 W. Superior Nold Jewelers, 414 N. Central H. W. Schmidt, 25 West Superior St. Security Company, Inc., 307 W. Superior St.

Superior-Peters' Jewelry, 1126 Tower Ave. Howatt Jewelers, 1425 Tower Ave.

FIRST SUBDIVISION

- 1. Speed Restrictions— Maximum Speeds Permitted Zone-Between: Freight Passenger First class trains, within yard limits....... East D. M. & I. R. Jct., and West Duluth Jct. Over 21st Avenue West Crossing..... . Restricted Speed. 30 30 15 15 West Duluth Jct., and New Duluth...........15
- 2. Bridge and Engine Restrictions—Between Duluth and West Duluth Junction—Engines classes A-2 to A-5 inc. and Z-6 to Z-8 inc., not permitted. All bridges—Trains handling wrecking cranes of 250 tons, or heavier, heavier than Class Q-4 not permitted. Steam engines heavier than Class W.....10 MPH. At Riverside—Steam Engines heavier than Classes L-9 and L-10 not permitted on tracks 1, 3 and 4 at Barnes-Duluth Plant. Door over tracks entering shop building will not clear man on top of car.
- At Duluth—City ordinance prohibits blocking street crossings at 1st Ave. East and 5th Ave. West for more than 5 minutes; or of any other crossing for more than 10 minutes. Engine whistle will not be used between 3rd Ave. East and 5th Ave. West, or between 14th Ave. West and 85th Ave. West (except 85th Ave. West) except as an alarm or warning, or to signal towerman, to call for semaphore signals, as a safety precaution in backing cars or engines, or as a signal in testing air brakes. No engine or train will run within the city without having bell ringing while in motion, and approaching any street or avenue.

Westbound freight trains made up in Bridge Yard departing via Terminal First Subdivision will proceed onto Westward main track through Eighteenth Avenue Crossover. Switch tender at Garfield Avenue will line switches after departure of train.

Train No. 66 is assigned Track No. 1 at Duluth Union Depot. Train No. 56 is assigned Track 5 and shall stop clear of crossover between Tracks 4 and 5 to permit return of engine to roundhouse via crossover and Track 4. Train No. 55 is assigned Track 2.

At Garfield Avenue—Normal position of junction switches will be for First Subdivision.

Trains will stop not less than two hundred (200) feet from Junction switches and not proceed until route is 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.
- 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.
 - D. T. main to Martins track. 0000 **-- o** Westward main to D. M. & I. R. yard.
 - D. M. & I. R. yard to eastward main. -- o -o o o Eastward Main to Martin's track.

Through main track movements.

- 8. At West Duluth—Train No. 65 will stop to clear Central Avenue crossing. Train No. 66 will stop with head car immediately opposite East end of station platform, thus avoiding blocking of Central Avenue crossing.
- 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.

To secure a restricting proceed interlocking indication, as per Rule 601-F, Figure (8), at the Westward Dwarf Signal, covering reverse movements on eastward track, engines or trains moving eastward through the dual control switch must, before reversing direction, clear the track circuit, the east end of which is located just east of the switch leading to the new Western Brass Company near 61st Avenue West.

10. Between West Duluth Jct. and Riverside—Between 72nd Ave. West and Riverside Jct., trains will run via D. T. Railway, and will be governed by D. M. & I. R. Railway Time Table and Special Instructions. Trains will secure D. M. & I. R. Clearance Card or Branch Train Order Card at West Duluth.

Transfers operating between 72nd Avenue West and New Duluth will be given train orders at West Duluth Passenger Station, covering Westward movement from 72nd Avenue West to Riverside Junction via "DT" Line. On arrival at New Duluth, Conductor will call the Northern Pacific Chief Dispatcher at Duluth, advising estimated time the Transfer will be ready to depart New Duluth on return trip. To facilitate calling, a Northwestern Bell Telephone has been installed in a telephone booth, secured by switch lock, on the station building. This telephone booth must be kept locked at all times. Before departing New Duluth on return trip, Conductors will pick up orders covering return movement from Riverside Junction to 72nd Avenue West in bill box, secured by a switch lock, located on station building at New Duluth.

- 11. 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.
- 12. Spring Switches—West Duluth Jct., at junction of First and Third (Terminal) Subdivisions, normal position for Third (Terminal) Subdivision 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
- 14. 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 in addition to, train order check.

15. 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 New Duluth will not require clearance.

SECOND SUBDIVISION

1.	Speed Restrictions—	Maximum Speed	s Permitted
	Zone Between:	Freight	Passenger
	First Class trains, within yard limits Garfield Ave., and Central Ave Superior and Central Ave., Great Nort	45	icted Speed. 55
	engines Class P-2	40	
	Trains handling loaded ore cars At Superior—Over switches at Belknap S and Omaha Conn	treet	5 MPH.

- 3. At Garfield Avenue—Normal position of junction switches will be for First Subdivision.

 Trains will stop not less than two hundred (200) feet from junction switches and not proceed until route is clear.

4. At Rices Point—Spring switch not equipped with either spring switch target or facing point lock is located 900 feet south of coal dock on roundhouse lead. Target indication—

Yellow—Straight track. Green—Roundhouse lead.

Normal position of switches designated below is as follows:

South End Rices Point Yard,

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

(B Yard) lead......when lined for Load (B Yard) lead. North End Rices Point Yard,

switch off outside lead for

between Hump (A Yard) Lead and Load (B Yard) Lead at west end of yard. Top light governs movements to westward track and crossover to eastward track; bottom light governs movements to west end of Hump (A Yard) Lead. Normal position of east switch of crossover from Hump (A Yard) Lead to westward track is for westward track, and must be kept lined and locked in this position when not in use.

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

Frains will call for route as follows:

For through main track movements		
Eastward track to westward track	o &	00
Eastward track to yard		
Yard to westward track		
Yard to eastward track		
Westward track to eastward track		
Westward track to yard	00 &	000

6. Between Bridge Switch and Elevator Station, St. Louis River Bridge—Interlocking signals govern use of tracks.

Single track over Minnesota Draw.

The three-light Home signal 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 Home signal on westward track east of Elevator Station indicates route:

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

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. During period of open navigation on St. Louis River, westward trains will stop before entering onto Wisconsin Draw and eastward trains will stop before entering onto Minnesota Draw. Maximum length of trains permitted over Minnesota and Wisconsin Draw spans during period of open navigation is 1355 feet which is equivalent to twenty-six (26) average freight cars, road engine, caboose and one helper engine.

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

"Proceed" and car limit restrictions will not apply.

- At Superior—City ordinance prohibits blocking any street crossing for more than 10 minutes, except in case of unavoidable breakdown.
- 8. Spring Switches—Superior, at west end of Brewery Lead, normal position for main track. To clear Brewery Lead signal when main track signal is displaying proceed indication, open release box and push the button, which will put time release mechanism into operation. After time release has operated, Brewery Lead signal will clear. Release box door must be left open until leading wheels of train on Brewery Lead have passed Brewery Lead signal, then close and lock the release box door. If Brewery Lead signal has been cleared and train on Brewery Lead is not ready to depart, if necessary to clear signal for a main track movement, close the release box door.

- 9. At Central Avenue—No. 1 track will be used as siding. When helper on Westward trains takes water, road engine will pull train up to clear interlocking, and wait for helper to take water and recouple to train. When setting out or picking up, trains must not block 58th Street, and Tower Avenue crossings.
- 10. 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.
- Derail Switches—At approach to Minnesota Draw from Duluth.
 At Elevator Station.
 At Superior—Winter St. just opposite freight house.
- Register Stations:
 Rices Point for second class and inferior trains, except passenger extras.

 Central Avenue.
- 13. 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.

14. Clearance Exceptions:

Trains originating at Garfield Ave., Rices 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—	Maximum Speeds	s Permitted
	Zones—Between:	Freight	Passenger
	First class trains, within yard limits		cted Speed.
	West Duluth Jct. and Zenith Furnace.	30	30
	Zenith Furnace and L. S. T. & T. Jct	40	40
	At West Duluth Jct., around east leg of	f wye	
	and passing Zenith Furnace Plant	Restri	cted Speed.

- 3. At West Duluth Jct.—Normal position of switches on east leg of wye is for Third (Terminal) Subdivision main track.

4. At Berwind Jct. Interlocking→

Trains will call for route as follows:

— o To and from D. W. & P.

— oo To and from Soo Line.

Straight track (N. P.)
 To and from Mike's Lead to Main track.

5. Clearance Exceptions:

Trains originating at West Duluth Jct., Berwind Jct. and L. S. T. & T. Ry. Jct. will not require clearance.

- 6. Spring Switches—West Duluth Jet., at junction of First and Third (Terminal) Subdivisions, normal position for Third (Terminal) Subdivision main track.
- 7. Derails—Winter St. just opposite freight house.
- 8. 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

2. Bridge and Engine Restrictions:

- 3. At Allouez—Track No. 2 must not be used by ore trains.
- 4. At East End—Normal position of switch at end of double track is for westward trains.

 The approach signal of interlocking at Newton Ave. is an automatic block signal located on single track and governs the single track to end of double track and the westward track to Newton Ave. interlocking.
- 5. At Newton Ave.—No crossover between eastward and westward main tracks. Between CStPM&O connection at Newton Ave. and East End, the westward track will be used as single track by eastward trains and engines entering at Newton Ave. and by westward trains and engines. Other eastward movements will be made on eastward track.
- 6. At Hill Avenue Yard—Ore trains arriving will stop to clear east end of arriving tracks.

Trains weighing ore on automatic scale will move at about 3 MPH. Semaphore over scale house is operated by weighmaster, and engineers will be governed by its indications:

Green: Proper speed.

Yellow: Reduce speed. Red: Stop.

- 7. 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 Rices Point Yard office and roundhouse.
- 8. At Central Ave.—Normal position of switch at junction of Fourth and Second (Terminal) Subdivisions, in Great Northern interlocker, is for Second (Terminal) Subdivision.
- 9. Spring Switches—Central Ave.—Normal position of spring switch at end of double track is for eastward trains. Normal position of spring switch at wye connection between Second and Fourth (Terminal) Subdivisions is for direct route to Pokegama. These switches are governed by interlocking signals equipped for switch key signal operation. If use of switch key does not give "restricting signal", proceed according to rule.
- 10. Yard Limits—Tracks between yard limit signs west of East End and east of Allouez, and between yard limit sign east of Central Avenue on Second (Terminal) Subdivision and yard limit sign just east of Soo Line crossing on Fourth (Terminal) Subdivision.

11. Register Stations:

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

- 12. Register Exceptions—At Central Ave. trains register by form 608. Eastward ore trains from Lake Superior Second Subdivision will not register. 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.
- 13. Clearance Exceptions—Trains originating at Alloues, East End or Hill Ave. will not require clearance.

Ore trains from Lake Superior Second Subdivision will not require clearance at Central Ave.

MAXIMUM CLEARANCES

Governing Structure—1st Sub-division, Lake Aye, viaduct, Clearance on					OF LOAD	MEAS!	MEASUREMENT	<u>با</u>			
balance of sub-division Max. 20'-6' obtains for all				ныснт		ABOVE TOP	OF RAIL				
widths of loads listed 2nd Sub-div., St. Louis Bay Bridge No. 2 restricts height of load at 12'-0" wide	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 New Duluth	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	12' 0"
2nd Sub-division, Garfield Ave. to Central Ave.	20' 6"	20' 6"	20' 6"	20′ 6″	20' 6"	20′ 6″	20' 6"	20′ 6″	20, 6"	20' 6"	12′ 0″
3rd Sub-division, W. Duluth Jct. to Superior U.D	20′ 6″	20' 6"	20' 6"	20′ 6″	20' 6"	20′ 6″	20, 6"	20′ 6″	20' 6"	20′ 6″	12' 0"
4th Sub-division, Alloues to Central Ave	20′ 6″	20' 6"	20' 6"	20' 6"	20' 6"	20′ 6″	20′ 6″	20′ 6″	20′ 6″	20′ 6″	12' 0"
Governing Structure—1st Sub-division, Lake Ave. vladuct. Clearance on				E	OF LOAD		MEASUREMENT	5			
balance of sub-division Max. 20'-6" obtains for all				HEIG	HEIGHT ABOVE	TOP	OF RAIL	ב			
widths of loads listed 2nd Sub-div., St. Louis Bay Bridge No. 2 restricts height of load at 12'-0" wide		S ft. 6 in. Wide	9 ft. Wide	9 ft. 6 in. Wide	10 ft. Wide	10ft. 6in. Wide	11 ft. Wide	11ft. 6in. Wide	12 ft. Wide	Max. Height	Max. Width
1st Sub-division, Duluth to New Duluth		18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18′ 6″	12' 0''
2nd Sub-division, Garfield Ave. to Central Ave.		20' 6"	20′ 6″	20' 6"	20′ 6″	20, 6"	20, 6"	20′ 4″	20, 2,,	20′ 6″	12′ 0″
3rd Sub-division, W. Duluth Jct. to Superior U. D.		20′ 6″	20′ 6″	20' 6"	20' 6"	20' 6"	20, 6"	20′ 6″	20' 6"	20′ 6″	12′ 0′′
4th Sub-division, Allouez to Central Ave		20, 6"	20, 6,,	20, 6"	20' 6"	20, 6,,	20′ 6″	20, 6,,	20′ 6″	20' 6"	12' 0''

AUTHORIZED SURGEONS

Dr. B. I. Derauf, Chief Surgeon. St. Paul. Dr. A. McEwan. Dr. C. H. Decker,

Dr. Donald Derauf, Dr. C. J. Hedlund, Dr. H. S. Proud.

Associate Surgeons, N. P. B. A. Hospital 1515 Charles Ave., St. Paul.

SPECIALISTS

St. Paul-

clearance.

inches

9

allow

table

ü

widths

and

Heights

centers.

42,

with

cars

25

o

based

measurements

of load

Limit

Dr. L. G. Edwards, 1039 Lowry Bldg. Dr. R. H. Monahan (Oculist), 1023 Lowry Bldg. Dr. L. T. Simons, Eye, Ear, Nose & Throat,

1039 Lowry Bldg.

Dr. E. L. Bauer (Ear, Nose & Throat), 621 Lowry Bldg. Minneapolis-

Dr. R. C. Horns, Oculist, 1137 Medical Arts Bldg.

Duluth-

Dr. M. F. Fellows, Oculist & Aurist,

1209 Medical Arts Bldg. Superior-

Dr. T. J. Doyle, Eye, Ear, Nose & Throat, 1507 Tower Avenue

SURGEONS

Duluth-

Dr. C. L. Haney, 2004 West Superior St.

Dr. Noel Tosseland, 900 Medical Arts Bldg. Dr. C. M. Smith, 416 Medical Arts Bldg.

Dr. A. J. Spang, 1930 W. Superior St.

Dr. J. S. Spang, 1930 W. Superior St. Dr. Wm. M. Spang, 1930 W. Superior St. Dr. D. R. Seifert, 1930 W. Superior St.

Dr. J. W. McGill, 1225 Tower Ave.

Dr. Victor E. Ekblad, 1507 Tower Ave.

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

Dr. Cyril M. Smith, 416 Medical Arts Bldg., Duluth

LOCATION OF STRETCHERS

East End Station.

Central Avenue Station.

Superior Freight Station.

Duluth-Fifth Avenue Yard Office, Union Depot, Store Room.

Tool Car. 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 employees, passengers and others. In a case of illness, or of injury unrelated to railway operation to other than N. P. B. A. members, surgeon should endeavor to collect a reasonable fee for service from person attended. If unable to collect, Chief Surgeon should be notified.

Where injuries, to other than N. P. B. A. members, 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, Automatic Interlocking. D. W. & P. Jct., Interlocking. West Duluth Jct., Automatic Interlocking. Morgan Park, Minnesota Steel Co. Crossing.

Second Sub-division

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

Third Sub-division

Zenith Furnace—D. M. & I. R. Ry. Crossing.
Berwind Jct., Interlocking, 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

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

S. A. ANDERSON,
Asst. Superintendent.

J. C. BERGMAN, Trainmaster.

> J. J. AUGE, Trainmaster.

> > C. E. JOHNSON, Trainmaster-Roadmaster.

> > > E. J. WIGG, Chief Dispatcher.