Spokane, Portland & Seattle Railway Co.

Oregon Trunk Railway

Oregon Electric Railway

# Special Instructions No. 5

In Effect 12:01 A. M. Pacific Time

Tuesday, January 1, 1946

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

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

E. H. SHOWALTER, Superintendent

T. F. DIXON, Vice President and General Manager

ay, January 1, 1946

**TERMINALS SUB-DIVISION** 

All transfers operating between Lake Yard and Portland, in either direction, without cabooses, between sunset and sunrise, or when weather conditions obscure vision, will display red lantern on rear end of the rear car in transfer.

At Portland-Between end of double track at 10th Avenue and Union Depot, trains and engines will be governed by signals from switch tenders. Westward trains and engines must not pass clearance point at end of double track until proceed signal from switch tender is received.

Eastward trains from S. P. & S. Ry. yard will use westward main track from 15th Avenue to 17th Avenue under protection of flagman, thence through cross-over to eastward main track.

Trains from S. P. & S. Ry. yards must not occupy westward main track while waiting for outbound passenger trains on the eastward main track

S. P. & S. Ry. yard crews and engines in charge of hostlers will not enter upon the track of the Northern Pacific Terminal Company in the vicinity of 10th Avenue without first getting a signal from the N. P. T. Co. switch tender, and in no case will S. P. & S. Ry. employes handle the switch to the connection between the S. P. & S. Ry. and the N. P. T. Co., unless the switch tender should be absent, and then only when it can be plainly seen that there are no N. P. T. Co. engines moving in the vicinity of the connecting track switch.

All freight trains entering S. P. & S. Ry. yard, will, unless specifically advised to the contrary, head in on 21st Avenue lead, stop east of 14th Avenue and call for track. Trains handling passenger equipment only will head in at 14th Avenue unless otherwise advised.

Yard crews when switching over the S. P. Co. track at East First and Main Streets, Portland, must, before leaving the crossing, assure themselves that signals have cleared for the S. P. Co. tracks so that S. P. Co. trains will not be delayed due to failure of these signals to clear. Employes handling the switch lock lever must be positive that it is in proper position when they have completed their work in that vicinity. When the lever is placed in normal position and door of the box closed, the signals on the S. P. Co. will clear. If for any reason, after lever has been restored to normal position the signals on the S. P. Co. tracks fail to clear, the train dispatcher must be notified immediately.

On N. P. T. Co. trackage, trains and engines using tracks 1 to 10 inclusive must run at restricted speed when passing a train receiving or dis-charging passengers and must not cross under "High Shed" at passenger station without receiving proceed signal from the Station Master or station without receiving proceed signal from the Station Master or his Assistant. In making this movement with yard engines, a member of the crew must ride on leading footboard of the engine and when the cars are being pushed must ride on front of leading car in direction engine is moving. A flagman must precede the movement of yard engines over crossing in front of the baggage room unless a proceed signal is given by the Station Master, Baggage Master, or their Assistants. Interlocking at south end of freight and passenger yards governs movement of all trains entering or leaving N. P. T. Co. Yards.

When the Home Signal is at "Stop" the following signals will be used to call for desired route:

For Albina For Troutdale For SP Main Line For SP Yard For E. 2nd St. For SPS to E. Side . . \_\_\_

When the Home Signal is at "Proceed" the whistle must not be sounded. When conditions are favorable use hand or lantern signals for route desired, omitting whistle signals.

At Portland—Fire lanes have been established over railroad crossings at 9th Street and Front Avenue and 14th Street and Front Avenue. Fire warning signals consisting of an electric siren and red flashing lamps located at these crossings will be operated only when fire fighting apparatus is going to a fire along the water front. In such cases, the siren will be sounded 2 to 3 minutes before the apparatus reaches the crossing and immediate action must be taken by trains and engines to clear the crossing in order there be no delay in fire apparatus reaching scene of fire.

- At Willbridge Whistle signal, 1 long, 1 short and 1 long blast (\_\_\_\_\_\_\_\_) will be sounded for route to Astoria line.
- 4. Engine Restrictions—At Portland, Hoyt Street Yard: Engines GN Classes 03, 04, 05, 06, Q-1 and Q-2 not permitted to head in on any yard track except Tracks 1, 2, and 3 in the Middle Yard, account No. 7 turnouts. These classes of power with the exception of Classes GN Q-1 and Q-2 are permitted to back through other yard tracks. Engines GN Classes Q-1 and Q-2 not permitted on 21st Avenue lead.

Sanding flues of engines between Nicolai Street, Portland, and Lake Yard is prohibited.

5. Impaired Clearance-

AT PORTLAND—All tracks in S. P. & S. Hoyt Street Yard have impaired clearance and will not clear a man on side of car.

PORTLAND, Union Depot Yard—When U. P. engines 3800 class enter or leave tracks in south end of yard, the boilers extend to outside of curve, creating close clearance with any engine which may be standing or moving on adjacent tracks. Engines standing on the south end of any of the odd numbered tracks awaiting arrival of U. P. passenger trains must remain back on straight track a sufficient distance to afford proper clearance, which clearance is indicated by yellow marks painted on ties and on edge of station platform.

In Union Depot Yard, Portland, S. P. & S. engines Class E-1 not permitted to enter or leave trackage at south end of station account sharp turnouts. Clearance at cab window height with depot sheds is as close as one and one-half inches, which close clearance must be observed by engine crews at all times.

### 6. Derails-

Portland —15th Avenue crossing between Westward main track and 21st Avenue lead.

—W. P. Fuller Co. Spur.

Willbridge -Kern and Kibbe spur.

			M.P.H.		
7.	Speed Restrictions—	Pass.	Frt.		
	Maximum Speed		4		
	Between 17th Avenue and end of double track	10	10		
	Between end of double track and Union Station stop	6	6		
	Over bridges between Vancouver and Willbridge	30	30		
	Over draw spans and rail locks	20	20		

8. At East Portland—The following governs the use of tracks constituting the East Second Street Yard: Tracks 1, 4, 5 and 6 are owned by the Union Pacific Railroad. Tracks 2 and 3 are owned by the S. P. & S. Railway.

Track 1 is for the S. P. & S. to make delivery of cars to the Union Pacific and the Union Pacific will use this track for other business provided it does not interfere with the S. P. & S. making their deliveries.

Track 2 is to be used by the Union Pacific for the delivery of cars to the S. P. & S. and the S. P. & S. will use this track for other business provided it does not interfere with the Union Pacific making their deliveries.

Track 3 is to be used as a thoroughfare by the S. P. & S. between Portland and East Portland and must not be used by the Union Pacific.

Track 4 is to be used by the Union Pacific as a thoroughfare between Albina and East Portland and must not be used by the S. P. & S.

Tracks 5 and 6 are for exclusive Union Pacific use and must not be used by the S. P. & S.

These tracks must not be used in any other manner than indicated above.

## **VANCOUVER DIVISION**

### FIRST SUB-DIVISION

1.	Speed Rest	rictions—	M.F	.н.
			Pass.	Frt.
	Maximum S	peed	65	45
	Over 8th St	. Crossing, Vancouver	8	8
	At Camas t	o exchange U. S. Mail, Trains 1 and 2	20	
	Between fire west of	st crossing east of depot and overhead bridge depot, Washougal (City Ordinance)	30	25
	Engines G.	N. Class R-1		35
	Freight Eng	ines	45	
2.	Derails—			
7	Camas	<ul> <li>—No. 3 Warehouse Track.</li> <li>—West end house track.</li> <li>—East end Converting Plant spur.</li> <li>—On paper mill New Spur, 500 feet from switch.</li> </ul>	house	track
	Washannal	West and house to als		

Washougal -West end house track.

Stevenson -Lindis spur, 705 feet from house track switch.

Carson —Spur.

Underwood -Industry track, clearance point west end.

Lyle —West end Union Meat Co. spur.

-East end outfit spur.

Avery -Ballast loading track, west end.

 Engine Restrictions—Engines classes E-1 and heavier not permitted on the following tracks:

Camas—Warehouse spurs 1 and 3; mill spurs 1 and 2; A. M. Blake Spur; Standard Oil Company Spur and Olson Lumber Company Spur.

Skamania—Industry Track.

Stevenson—Industry track, Union Oil Company Spur, Standard Oil Company Spur and Lindis Spur.

Carson-Spur.

Home Valley-Rock Spur.

Hood-Broughton Lumber Company Spur.

Bingen-White Salmon—Team tracks, both ends; Union Oil Company Spur and Standard Oil Company Spur.

At Home Valley engines heavier than Classes O-1 and O-3 not permitted on Rock Spur.

## SECOND SUB-DIVISION

		M.P.H.	
1.	Speed Restrictions—	Pass.	Frt.
	Maximum Speed	65	45
	Engines G. N. Class R-1		35
	Freight Engines	45	

### 2. Engine Restrictions-

Engines Classes E-1 and heavier, not permitted to go beyond the frog of the following tracks:

Goodnoe pit tracks.

### 3. Derails-

Sundale -east end of industry track.

Plymouth -east and west end of industry track.

Hover —east end of industry track.

Kennewick —east end of industry track.

### 4. Register Exception-

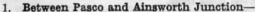
At Pasco—The S. P. & S. register will be used in compliance with Rule 83(A) in lieu of the register at S. P. & S. Junction.

5. Between Pasco and Kennewick—All movements between Pasco passenger station and east switch of siding at Kennewick are governed by block signals, the indications of which supercede the superiority of trains for opposing and following movements on the same track. The end of bonded circuit is located 4500 feet west of west switch at Kennewick. Eastward trains will stop clear of east switch of siding Kennewick if eastbound signal at east switch does not indicate proceed.

Trains will be governed by N. P. Ry. Co. time table and special instructions.

Trains to and from the S. P. & S. will display the same classification signals as required arriving S. P. & S. junction on S. P. & S. Ry., but regular trains will use schedules shown on N. P. time table carrying S. P. & S. connections.

### THIRD SUB-DIVISION



All trains and engines will be governed by block signals, the indications of which supersede the superiority of trains for both opposing and following movements on the same track. Freight trains and engines must avoid delay to first-class trains and passenger extras as far as possible.

2. At Pasco—Siding which parallels Third District main track is equipped with spring switch and facing point lock at east end. Switch at west end is hand throw. Dwarf signal located 1000 feet east of M. P. 232 governs eastward movements from siding to main track. Normal position of this signal is STOP. A time release and key switch is located 10 feet east of head block. When eastward movement is to be made from siding to main track, trainmen will insert key in switch key box and turn in clockwise direction to actuate the dwarf signal. If signal does not then indicate proceed, open door of box, operate push button and wait three (3) minutes for time release. If signal does not then indicate proceed, be governed by Rule 509(A). The approach lighting section for this signal extends only 400 feet west of the signal. If an engine or car over-runs this point a proceed signal cannot be obtained.

The switch at intersection of Pasco freight yard lead and main track at M. P. 231 is dual control, electrically operated by remote control by the operator at Pasco. Normal position is for main track. Transapproaching switch and finding home signal at STOP will communicate with operator at Pasco. If switch is not in proper position for train movement and if no conflicting movement, and if the operator is unable to manipulate the switch and/or clear the signal, the switch may be operated by hand after following instructions governing the handling of dual control switches. If signals still indicate STOP, trains may proceed as prescribed by Rules 663(D) and 509(A).

3. Ainsworth Junction—Junction switch is dual control, electrically operated by remote control by the operator at Pasco. Normal position is for S. P. & S. Trains approaching switch finding HOME signal at STOP will communicate with operator at Pasco and be governed by instructions contained in second paragraph of Item 2 above.

Signal 233.2, just west of Ainsworth Jct. is the last signal for eastward movements. The top unit governs movements to the S. P. & S., and the lower to N. P. 9th Sub-Division.

Westward Signal 234.3, located 6000 feet east of junction switch, governs approach to HOME signal. Clearing section is 8500 feet east of the HOME Signal.

At Eastward Signal 230.6, at intersection of Third Sub-Division main track and back-up track, governs approach to HOME signal at intersection of Main track and Freight lead. The Normal position of this switch is for Third Sub-Division main track.

### 4. At Snake River Junction-

Normal position of junction switch is for S. P. & S. Ry. 3rd sub-division. Trains from the Northern Pacific Ry. must not occupy S. P. & S. Ry. main track until after obtaining Register Check with clearance Form A from the operator authorizing movement. Junction switch is equipped with an electric switch lock.

### 5. At Scribner-

Normal position of junction switch is for the Fort Wright line.

Northern Pacific trains approaching Scribner from S. P. & S. will sound whistle signal one short, one long and one short to call for route to Marshall.

Junction switch is equipped with an electric switch lock. The locking device is also equipped with a sealed emergency release for use only when the apparatus fails to unlock following the normal procedure.

To operate the emergency release, break the seal, remove the lock pin, depress and hold down the push button on the emergency release, while moving the lock handle to the unlocking position. Wait three minutes and if there is no impending train movement, junction switch may be thrown, and if signal fails to clear, train may proceed under the provisions of Rule 509(B). Operators at Scribner will handle junction switch for N. P. route when on duty.

The end of track circuit governing eastward automatic block signal 367.4 at Scribner is located 7000 feet west of that signal and the junction switch cannot be operated to admit an eastward train to enter Northern Pacific route until such train has entered the westerly limit of this bonded circuit. Eastward Northern Pacific trains will approach this junction switch at a low rate of speed to enable operator to line switch,

### 6. At Marshall Junction-

Junction switch is governed by interlocking signals and rules.

### 7. At Fort Wright-

Junction switch is governed by interlocking signals and rules.

Eastbound automatic block signal No. 375.6, located just West of Tunnel 19 (Fort Wright), is a three-position signal and connected with home signal at Fort Wright interlocker. This signal will indicate "approach" when home signal indicates "stop" and will indicate "proceed" when home signal indicates "proceed" and route is lined for Eastbound S. P. &. S. trains.

Telephone located at signal 375.6 to enable crews to contact operator at Fort Wright.

### 8. At Hillyard-

Westward S. P. & S. Ry. Co. trains must secure S. P. & S. clearance Form A before proceeding.

### 9. Engine Restrictions—

Engines Classes E-1, and heavier, not permitted to go beyond the frog of the following tracks:

Burr Canyon—Spur

Farrington —Spur

Kahlotus —Town Spur

Sperry —Elevator Spur

Lamont —Oil Spur, Cinder track and Warehouse track

Scribner —Nemours Spur

Ft. Wright -Outfit Spur

At Spokane—Engines heavier than Mikado type not allowed on turn out leading to the Log, Back, Middle and short Track at the West end, or over turn-out leading to high team tracks at the East end of G. N. yards.

10.	Speed Restrictions—			Pa	ss. Frt.
	Maximum Speed			6	0 45
	Between Kahlotus and	Snake Rive	r Jet	4	0 25
	Engines G. N. Class R-	and the same of th			. 35
	Freight Engines				
	Freight Engines			3	5
11.	Commercial Tracks 1	Jot Indica	ted in Time	Table-	
		files from	Car	Switch	Station
		Portland	Capacity	at	Number
	Burr Canyon Spur	265.9	5	West end	266
	Harder, Stockyard	direction in the	al some persons		
	Siding	280.7	18	Both ends	281
	Washtucna Industry	292.4	156	East end	292
	Ankeny	305.8	31	Both ends	306
	Nemour's Powder Spur	368.6	48	West end	369
		to done in the	Sales Postered		
12.	Work Tracks Not Sho			a	
		files from	Car	Switch	
		Portland	Capacity	at	
	Outfit Spur No. 374.6.	374.6	9	East end	1
					-
13.	Derails—				
		l of spur.			
	Redd —west end				
				at and of anous	I nit trook
	AND THE RESIDENCE OF THE PARTY	of elevator	spur, and we	st end of grave	pit track.
	Burr Canyon	in all rendels			
	Spur —west en		he other worl a		mani
	Kahlotus —east end	of house to	rack.		
	Harder —west end	d of stocky	ard siding.		
	Sperry —east end	of spur.			
	Washtucna (-west end	of house t	rack.		
	east end	of empty	coal track.		
	the second second second second	d of industr			
	Control of the Contro	d of storage			
	mondo.	d elevator t			
		d of No. 2 t			
		of empty			
			de on oil spu		
	South Cheney—east an		The state of the s		
	Nemour —2 derails			I. B. of spur.)	
		(One 1600	feet east of l	H. B. of spur.)	
	Outfit Spur	Chine 04-0			40
	No. 374.6—east end	Man In			-
	FOUR	TH SU	B-DIVIS:	ION	
	(G	OLDENDA	LE-LYLE)		
1.	Speed Restrictions-				M.P.H.
1.		d Whalite			
	Between Goldendale an				
	Between Klickitat and				
	On curves 5 degrees ar	d over			15
	Commercial Manager	and in direct	ad in Time	Table	
2.	Commercial Tracks				Chatta
	ı	Ailes from	Car	Switch	Station Number
		Lyle	Capacity	at	
	Doubling Spur	1.6	8	East end	G 2
	Klickitat Springs	15.8	10	East end	G 16
3.	Derails—				
٥.	Wahkiakus—west end	of siding			
	TI GIIAIGA WEST CIIU	or maing.			
		a burn alle bu			
4.	Bridge and Engine R				
	Engines heavier than	Class N-2 r	ot permitted		

## **OREGON TRUNK RAILWAY**

- 1. At O. T. Junction—Normal position of spring switch is for Oregon Trunk Ry.
- 2. At Celilo Wye-Normal position of switch is for Oregon Trunk Ry.
- At Redmond—Dropping cars over Ochoco Highway crossing is prohibited.
- 4. Westward Freight and Mixed Trains will stop at Madras and turn up retainers on all loaded cars and on alternate empties and stop at South Junction and turn down retainers. Running brake tests will be made on westward trains at point one mile west of Madras. Trainmen will not be required to ride out on top of cars between these points.

	M.	P.H.
5. Speed Restrictions—	Pass.	Frt. and Mixed
Between Wishram and MP 87	35	30
Between MP 87 and MP 98	25	20
Between MP 98 and Metolius	40	35
Between Metolius and Bend	25	25

6. Derails-

Sherar —west end siding.

Maupin —west end house track.

Gateway | -west end house track. west end siding.

Paxton -industry track, west end.

Agency -west end of siding.

Metolius —west end siding.

Prineville Jct .- west end siding.

Redmond —east end house track.
west end house track.
Redmond fuel oil spur.
Army base spur.

Deschutes -west end industry track.

7. Bridge and Engine Restrictions-Engines Class 0-1 and heavier, will be spaced not less than ten cars apart in trains. When these engines are moving light coupled, they will be separated when passing over steel bridge No. T-105.6, four-tenth mile east of Madras and steel bridge No. T-88.6, 2.8 miles east of South Junction.

Engines Class Z-6 and heavier are permitted on the following spurs and industry tracks only:

-Industry track. Maupin

Tuskan -Industry track.

Metolius -Turn table lead and storage track No. 1.

-Union Oil Spur, Standard Oil Spur, Team track from Redmond

west end to stock yards; storage track.

Deschutes -Industry track.

Bend -Storage tracks Nos. 1 and 2, Engine house tracks and Wye, north end house track.

Engines Class Z-6 and heavier, not permitted to go beyond the frog of the trackage at South Junction.

Celilo Draw Bridge is closed as a draw span except when actually in use to permit passage of navigation. Advance notice covering the time a vessel will pass through the draw will be given to the Chief Dispatcher. He will then instruct section foreman at Wishram to be on hand at Celilo draw at proper time, and after the flagmen have been placed and vessel is ready to pass through, will remove the angle bars which will allow the draw span to be opened. After vessel has passed through draw and the angle bars have been replaced, flagmen will be recalled and section foreman and flagmen released.

# PORTLAND DIVISION

### FIRST AND SECOND SUB-DIVISION

(PORTLAND-SEASIDE-FORT STEVENS)

- At Willbridge Whistle signal, 1 long, 1 short and 1 long blast ) will be sounded for route to Astoria line.
- At United Junction—Spring switch, normal position for United Rail-ways main track. Westward first sub-division (Astoria Line) trains will stop to line switch for their route.
- 3. At St. Helens-Trains must not block highway crossing while taking
- At Warrenton-Normal position of switch is for 1st sub-division.
- 5. Draw Bridges-

Clatskanie River, MP 62.7 center of draw. Blind Slough, MP 84.8 center of draw. John Day River, MP 94.8 center of draw. Youngs Bay, MP, 102.6 center of draw. Skipanon Creek, MP 105.5 center of draw.

Telegraphones-Located at: Goble (Section House); Rainier; Mayger; Clatskanie; Bradwood; Wauna; Westport; Clifton; Knappa; John Day; Astoria.

	and Rogine Restrictions-	M.P.	H.
7.	Speed Restrictions—	Pass.	Frt.
	Maximum speed	40	30
to a	Through Linnton	20	20
	Hageman Moorage crossing, located 462 feet west of Bridge A-9.3	15	15
	Through Scappoose	20	20
	Through Rainier (City Ordinance)	8	8
	Between Locoda and U. S. Government Yard	)	10
	Between Curve 163 and Warrenton	25	25
	Over Youngs Bay draw span, bridge 102.6, west of Astoria	12	12
	On Pacific Avenue, Hammond	8	8
	Between Warrenton and Seaside	30	20
	Between Warrenton and Fort Stevens	15	15

### 8. Commercial Tracks Not Indicated in Time Table-

the man painted account	Miles from Piortland	Car Capacity	Switch at	Station Number
Gasco	. 5.6	28	West end	A 6
Gasco	. 5.6	25	East end	A 6
Harbor Track	. 9.8	57	East end	A 10
Trojan	. 40.7	12	East end	A 41
Reeds		5	East end	A 45
Van Vleet Spur	. 47.0	13	West end	A 47 A
Hickox Spur	. 47.3	12	East end	A 47 C
Pyramid	. 53.5	7	West end	A 54
Tongue Point	. 96.8	19	East end	A 96
Warrenton Clay Spur	106.3	54	West end	FS1
Bioproducts Spur	. 108.1	5	West end	FS3A
Point Adams Spur		5	East end	FS3

### Derails-

-Kern and Kibbe spur. Willbridge

-Sunset Oil Co. spur No. 3. Linnton General Petroleum spur No. 2.

C. E. Gunderson spur. American Brake Shoe Co. spur.

-Gravel spur. Scapoose

-East end of siding. St. Helens Standard Oil Co. spur.

Deer Island -spur.

Marshland -spur.

Tongue Point-Mill Creek spur. Naval Base spur.

Camp Clatsop—spur.

### 10. Impaired Clearance-

At Gasco, three car lengths on both sides of stub end of the loading

At Astoria—All tracks of the Port of Astoria; City Lumber and Supply Co. spur; New England Fish Co. spur; Uptegrove Lumber Co. track; house track.

At Astoria, overhead crossing over port dock tracks leading from Pier 1 to Pier 3 have but 17 feet clearance from top of rail. Trainmen must use care when switching on this track.

### 11. Bridge and Engine Restrictions-

Engines heavier than Class D-2 not permitted west of Astoria.

Engines Classes O-2 and heavier not permitted west of Clatskanie.

Engines Classes N-6 and N-7 restricted to 15 M. P. H. on curves of 3 degrees and over.

Engines Class F-1 and heavier not permitted on the following tracks:

Prescott -Beyond loading dock.

Westport -beyond lower dock on spur.

Wauna -Wauna Lumber Co. spur No. 2, and Wood tracks.

-Hanthorne cold storage spur and Port dock tracks. Astoria

Double heading of steam engines is prohibited on Portland division, except between Willbridge and United Jct. When two engines are used in a train the second engine must be cut back not less than ten (10) cars from lead engine.

### THIRD AND FOURTH SUB-DIVISIONS

- 1. At United Junction-Normal position of switch is for Fourth Sub-Division.
- 2. At River Junction-Normal position of switch is for route to Rafton.
- 3. A minimum of 16 brakes must be used on all full trains of loaded disconnected trucks on the necessary descending grades between Glenwood and Rafton. Brakes will be used in proportion on less than full trains. When starting down descending grades, engineer will control speed of trains to give ample time to apply hand brakes.
- At Bowers Junction-Spring switch. Normal position is for O. E. Ry.
- 5. At Wilkesboro-Normal position of junction switch is for 3rd Subdivision.
- At Keasey—When necessary for trains or engines to move west of Keasey, conductor will call Oregon American Lumber Company Dispatcher by telephone from Keasey, and arrange for such movement.
- Couplers—When engines and cabooses equipped with adjustable couplers are being moved, the Federal Law prohibits the handling handless. one train, equipment including engines and cabooses, unless couplers are all in either the high or the low position. This includes couplers on engines and on cabooses on the opposite ends from those in service. When it is necessary to change position of adjustable couplers, there must be no failure to again connect between cutting lever and pin lifter so that cutting lever will be operative.
- 8. Log Restrictions-Following restrictions must be observed in the handling of logs loaded on disconnected trucks; loads must not exceed eleven (11) feet in width, nor eighty-five (85) feet in length, except by special permission.

The load limit for 80,000 capacity trucks is 12,000 feet, and for 100,000 capacity trucks, 14,000 feet.

There must be a clearance of not less than twelve (12) inches from the top of rail to bottom of logs.

In event of trains stalling on grade, enginemen must not take slack to start because of liability of pulling trucks from under loads.

When handling logs on disconnected trucks, trainmen will be required to ride out on trains for the purpose of controlling trains over district between Keasey and Zan, Top Hill and Manning, Rockton and Rafton, Glenwood and Washburn, and between Mile Posts 6 and 3. When handling empty trucks with caboose on rear, trainmen will not be required to ride out, but in every case there must be not less than two trainmen in caboose over these districts.

### 8. (Continued)

When handling logs on disconnected trucks, trainmen will be required to wear shoes equipped with caulks.

Log trains must not cross overhead crossing just west of Wilkesboro when S. P. Co. trains are passing underneath. If an S. P. Co. train is passing or approaching, log train must come to a stop and wait until S. P. Co. train has cleared the crossing.

Whenever from any cause, logs are lost from cars or trucks, conductors will file a message at the first open telgraph office, addressed to Superintendent, showing number of logs lost, location, brand and whether from trucks or flat cars.

Double heading of trains handling logs on disconnected trucks is pro-

- Engine Restrictions-At Glenwood engines must not enter the five turnouts located between the derails at the east end of the Mill Tracks and the east switch of Yard Track No. 1. If necessary to use east lead track to Shingle Mill and engine house or west end of mill siding, enough cars must be used so engine will not enter turnouts.
- At Rafton-Round-house track No. 2 must not be used by Engines or cars beyond round-house door.

Due to sharp curvature, engines not allowed on the east end of Dump 3 track.

11.	Speed Restrictions—	MPE
	Over bridge B-07 between River Junction and Rafton	12
inus	Between United Junction and Wilkesboro	25
rest	Between Wilkesboro and Keasey	20
	Between Wilkesboro and Glenwood	15
batt	Eastward trains will use not less than 25 minutes between Top Hill and Manning.	
	Trains handling logs, disconnected trucks	15
	Trains handling empty disconnected trucks	25

- Bridge Restrictions-Engines heavier than Class O-2 not permitted west of Wilkesboro on Third or Fourth Sub-divisions.
- Commercial Tracks not Indicated in Time Table-

	les from lkesboro	Car Capacity	Switch	Station
South Fork Industry track	a strains than	36	Both ends	R 12

14

Work Tracks not Shown as Stat	tions—		
	Miles from Portland	Car Capacity	Switch
Outfit Spur 39.3	. 39.3	8	West end

### 15. Derails-

-Kautz Spur, 26th and Nicolai Street. Portland

Burlington -East end siding. Tunnel Spur —Industry spur.

Rockton -Industry spur.

Vadis -Industry track, west end.

—Industry spur. Manning Top Hill -Siding, east end.

Outfit Spur 39.3

Glenwood -South Mill spur.

North Mill siding.

Main track just west of head block to South Mill spur.

South Fork -Industry track, east end.

### OREGON ELECTRIC RAILWAY

- Cars handled in trains or by yard engines in city streets, at any station, must have air cut in and operative, except when actually switching.
- At Portland—Cars exceeding 44 feet in length must not be handled between First Avenue and Flanders Street and Twelfth Avenue.

Cars must not be spotted on Flanders Street between Second and Third Avenues.

Cars spotted on city streets must be protected by two red lanterns on each end of end car.

Cars 50 feet and longer must not be handled via 12th Ave. and Petty-grove Street.

 At Salem—All cars delivered by the O. E. Ry. to the S. P. Co. and left on interchange track, between 4:30 P.M. and 7:30 A.M., must be protected by two red lanterns placed on each end of end car.

Cars exceeding 44 feet in length must not be placed on Fruit Union Spur. When necessary to place or remove 50-foot cars on hop track it will be necessary to handle such cars separately.

Eastward trains handling logs on flat cars will stop at water tank, Sale and make inspection of all such loads, and know before proceeding, that logs are riding properly for safe movement through the City of Salem.

- 4. At Albany-Normal position of Junction switch is for third sub-division.
- 5. At Lebanon—Junction switch, O. E. Ry., is located at S. P. Co. MP 688.9. Normal position of switch is for S. P. main track. Normal indication block signal on O. E. track is "STOP" and will change to "PROCEED" when switch is opened, providing S. P. main track is clear between block signals located on both sides of junction switch.

Telephone connected with telegraph office, S. P. Co., Lebanon, is located in booth near junction switch.

In addition to a clear block signal, eastward O. E. Ry. trains must obtain permission from operator, Lebanon, before entering S. P. Co. main track.

- Interchange Tracks with S. P. Co. are located at Salem, Albany, Lasen and Lebanon.
- Instructions Governing Operation over S. P. Co. Track Between Greton and Beburg—

Absolute signal located 306 feet west of Beburg junction switch governs eastward movement from Southern Pacific tracks.

Absolute signal located 225 feet east of Greton junction switch governs westward movement from Southern Pacific tracks.

Absolute signal located 306 feet east of Beburg junction switch governs westward movement from Oregon Electric tracks. Absolute signal located 225 feet west of Greton junction switch governs eastward movement from Oregon Electric track.

Normal position of Junction switches at Greton and Beburg is for Southern Pacific movement. Normal position of absolute signals at Greton is "stop." Normal position of absolute signal at Beburg governing Southern Pacific movement is "proceed" and normal position of absolute signal governing the Oregon Electric movement is "stop." Switch indicators are in use.

When an absolute signal governing Southern Pacific movement indicates "stop" train after stopping will comply with S. P. Co. Rule 744.

Oregon Electric trains will stop at absolute signals; if switch indicators at junction switch indicate "block clear" switch may be set for movement from Oregon Electric track. If switch indicators at junction switches indicate "block occupied" wait 10 minutes and if no train is heard or seen approaching, the switch may then be set for movement from Oregon Electric track. If signal does not then indicate "proceed" comply with S. P. Co. Rule 744.

Signal 7772 located between Beburg and Greton governs eastward movement for Southern Pacific trains and westward movement for Oregon Electric trains.

### 7. (Continued)

Signal 7779 located between Greton and Beburg governs westward movements for Southern Pacific trains and eastward movements for Oregon Electric trains.

Trains stopped by Signals 7772 or 7779 indicating "stop" will send flagman ahead immediately, wait ten minutes then proceed, keeping at least one-half mile behind flagman until train has passed and is clear of junction switch.

Spur track at Fanno is equipped with double switch indicator and dwarf light signal 7775. East end Southern Pacific siding at Beburg is equipped with double switch indicator and dwarf light signal 7766. If switch indicator indicates block is clear dwarf signal will indicate "proceed" when derail and switch lined for movement to main track. If switch indicator indicates block "occupy" wait 10 minutes then provide flag protection both directions as prescribed by Rule 99 before fouling main track.

Eastward Southern Pacific trains will, when meets are made at Beburg, move through siding unless otherwise provided by train order. Eastward trains entering siding at Beburg must clear main track as soon as possible to release signals for other movements.

Telephone in booth at Beburg and Greton connected with both O. E. and S. P. dispatcher's offices by means of two-way switch.

# Instructions Governing Operation over S. P. Co. Tracks between Albany and Lebanon.

O. E. Ry trains between Albany and Lebanon will use S. P. Co. main track just west of signals 6912 and 6913, and use Albany and Page siding between Albany and Tallman Branch junction switch at Page, and must comply with S. P. Co. Rules 93 and 842.

When no yardmaster or representative present, train and engine men must comply with S. P. Co. Rules 83 and 83-C. Eastward O. E. Ry. trains (S. P. Co. timetable direction) will obtain check of register at Albany station. Westward O. E. Ry. trains (S. P. Co. timetable direction) will obtain check of register by telephone from S. P. Co. operator at Albany and repeat it back to operator for verification before delivery to engineer.

Before lining derail and main line switch, the position of Signals 6912-6913 located on the S. P. Co. main track, just west of the connection, should be observed. If either signal is in "STOP" position, it indicates there is a train in the block, and derails should not be lined or the switch opened until such train has passed, signal cleared, or it has been ascertained that it is in "STOP" position for some other reason.

Telephone connected with telegraph office, S. P. Co. Albany, is located in booth at LaFayette Street.

O. E. Ry. trains on S. P. Co. tracks at Albany, on what is known as the "Bridge Line," which extends from the point where O. E. Ry. trains enter Albany siding to Page, are not permitted to take water, fuel or other supplies, pick up or set out cars or perform any other service.

Between Page and Lebanon, picking up and setting out of cars is permissible under joint track operation.

### 9. Impaired Clearance-

At Portland: All tracks in S. P. & S. Ry. and O. E. Ry. yards have impaired clearance and will not clear a man on side of car.

Double track on 12th Avenue between Overton and Glisan Streets have only ten-feet nine-inch centers. All trains and engines meeting or when moving on either track, when cars are standing on the opposite track between these points, must come to a stop and see that nothing is projecting that will foul equipment.

Bridge 14.9 Tualatin River, one mile east of Tualatin.

### At Albany-

S. P. Co. overhead bridge, State highway bridge and S. P. Co. siding all on Water Street.

These bridges will not clear a man on top of high car.

Cab ventilators on all steam engines must be lowered and sand dome covers on engines classes O-1 and O-3 must be removed when passing under S. P. Co. overhead bridge at Tualatin account impaired clearance.

10.		MPH
Louis	Under S. P. Co. bridge at Tualatin	
bime noin	Over bridge 22.9, Wilsonville, 20 MPH, excep MPH. Brakes must be released before moving structure and the application of brakes while must be avoided as much as possible.	on any portion of the
	Between Forest Grove Junction and Forest Grove	25

Between Forest Grove Junction and Forest Grove	20
Through Hillsboro	10
Through Forest Grove	15
Between Bowers Junction and Beburg	35
Between Beburg and Greton on S. P. tracks	20
Between Greton and Eugene	35
Through Salem	10
Passing paper mill, Salem	5
Through Albany	12

Between second crossing east of depot at Harrisburg and county road crossing, 1800 feet west	8
Through Junction City	20
Between Lebanon and Sweet Home	25
Between Sweet Home and Calapooia	25
Between Calapooia and Dollar	12

Trains handling logs..... Log trains will stop at Tualatin and inspect train for projecting logs before passing under S. P. Co. overhead bridge and over Tualatin river bridge 14-9.

At Salem and Albany-

Trains and engines moving on Front Street, Salem, must stop before crossing S. P. Co. trackage at Trade, Chemeketa, Union and Division Streets, and at all three crossings with the S. P. Co., on Water Street, Albany, and not proceed until flagman has been sent ahead and proceed signal received from him.

### 11. Engine Restrictions-

Double header engines, when crossing bridge 22.9, Wilsonville, must be separated in trains by not less than 5 cars. If both engines are on head-end, train must be stopped, lead engine cut off and cross over bridge before train is started.

At Orenco-Engines Class O-2 and heavier not permitted beyond a point 500 feet west of West switch of siding, on second sub-division.

Steam engines not permitted on the following tracks:

Wilsonville -Hole track.

Salem -All industry tracks.

-Log dump trestle. Melas

Steam engines not allowed to operate between Albany and Eugene except by special authority of Superintendent.

### 12. Bridge Restrictions-

Engines Classes 0-2, and heavier, not permitted west of east end of Bridge 22.9, Wilsonville.

At Salem-Steam engines not permitted on bridge 71-6-S, located on old passenger main line.

### Commercial Tracks not Indicated in Time Table:

First Sub-Division	Miles from Portland	Capacity	Station Number
Miller Seed Spur	118.3	4 W	E 118
Crown-Willamette Log track	129.9	25 E & W	
Johnson and Powell Bros. Spur	130.0	10 E	E 130
Third Sub-Division	Miles from Albany	Capacity	Station Number
Kelley Timber Products	18.3	3 E	S 18
C. & M. Lumber Co	2014	7 E	S 20
Lichty Piling Co	20.8	15 E	S 20
Puget Timber Co	24.6	7 E	S 24
Daugherty Piling Co	26.0	10 E & W	S 26

14.	Work Tracks not Shown as Stations:	Miles from Portland	Capacity
	Sub-Station Spur 19	18.9	2 E
	Mulloy	40.2	7 E
	Melas	72.0	36 E & W
	Outfit Spur No. 75.4	75.4	23 E
	Sub-Station Spur 61.3	61.3	8 E
	Pirtle	101.6	2 E
	Sub-Station Spur 101.7	101.7	13 E
500	Cartney	121.3	2 E
	Meadowview	134.4	6 E

### 15. Derails-

-West end siding. Donald

-Siding, east end. Curtis

Salem -Producers Canning & Packing Co. spur. Oregon Gravel Co. spur.

Paulus Bros. spur. Chemical Co. lead.

-Clearance point on O. E. Ry. track at junction with S. P. Co. main track.

### SANTIAM BRANCH

M. P. 26 —Daugherty Piling Spur.

Sweet Home —Cascadia Lumber Spur.

Vancouver Plywood, two tracks with derails. Gravel Spur, derail.

Portland Dock, derail.

Long-Bell Lbr. Co.—Three spurs, east end.

### HOLLEY BRANCH

-Ryan, derail east end. M. P. 10

-Skagit Linn Spur, east end. M. P. 14

### ALL SUB-DIVISIONS

- Rule 83(B) will not apply at initial stations which are not telegraph stations, and at telegraph stations except during office hours, if the train order signal is in clear position.
- 2. Whistle signal 14(K) must also be sounded when passing track and bridge crews.
- 3. Lights will be displayed at night on all main line train order signals.
- Car loads of cigarettes and whiskey must be placed in trains next ahead
  of caboose where they can be watched by trainmen.
- 5. When a train strikes livestock bring train to a stop and make prompt inspection to ascertain if any damage to equipment. If livestock is struck by trains near switches, the switches should be examined, dispatcher notified, and sectionmen called so permanent repairs can be made.
- Trainmen will closely observe lading of open top cars in transit, and if found shifting, see that it is properly adjusted or car set out.
- Dropping cars into tracks on which there are occupied outfit cars is prohibited.
- When necessary to set out equipment due to hot journal, be sure that all traces of fire are extinguished and journal box properly marked.
- 9. Open cars loaded with rail must not be handled next to caboose if the consist of the train permits handling in another location.
- Pusher engines must not push on cabooses not equipped with steel center sills.
- 11. Sign reading: "Impaired Clearance" placed on switch stand or entrance of spur or siding indicates there are platforms or structures located along track which do not provide minimum horizontal clearance. Employes will use care and avoid risk of injury while working on spurs or sidings protected with "Impaired Clearance" signs.
- In column on time table marked "Car Capacity," suffix letters E or W indicates the end of track at which switch is located.
- Trains must not pass under overhead crossing of logging roads while log train is passing over the crossing.
- 14. Whenever descending grades require the use of retaining valves, trains will stop at the top of grade and turn up retainers after brakes are released, following the air test, and stop at foot of grade for retainers to be turned down.
- 15. Station signs indicating "One Mile S" are placed one mile from the switch where trains enter the siding. Where there is no siding, these signs are placed one mile from the depot building or where traffic is received and discharged.
- 16. When dining cars or other non-platform cars are placed on the rear of passenger trains, in addition to keeping the flexible gate closed and fastened in place, the rear door of car must be kept locked.
- 17. Under Rule 2 of the Consolidated Code of Operating Rules, watches that have been examined and certified to be a designated inspector must also be used by all officers and the following employes: Train dispatchers, track inspectors, section foremen, bridge and building foremen, telegraph line foremen, linemen and yardmen.
- 18. Electric Switch Locks—To operate, open door of electric switch lock and push the button. This will start operation of clock release, which will run down in three minutes and, at the end of that time, 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.

19.	Dual Control Switches-To operate, throw selection lever from
	power position to hand operating position, then operate switch with
	hand throw lever. Selecter lever must not be returned to power po- sition until after final movement over switch has been made. Both
	levers must be left in normal position and locked.

20

0.	Speed Restrictions— M.P.H.
	Through crossovers, gantlets and No. 11 turnouts 15
	Through No. 15 or 16 turnouts, at Willbridge, Panama Jct. and Ainsworth Jct
	Spring Switches—
	In facing point direction:
	If not equipped with facing point lock
	If equipped with facing point locknormal speed
	In trailing point direction:
	When movement actuates switch points
-	On track for which switch is linednormal speed
	If any movement is through turnout, the allowable turnout speed must be observed.
	Freight engines used in passenger service must not exceed authorized speed for freight trains in the territory where operated.
	Handling steam wrecking cranes, pile drivers or locomotive cranes 25
	When freight cars, except those equipped with passenger trucks and steel wheels, are handled in passenger trains, the train will not exceed authorized speed for freight trains in the territory where operated.
	Over switches in paved streets
	When picking up train order hoops (except where hoop stands are located)
	To avoid damage to rail and bridges by moving locomotives having main or side rods down, over the road at too high a speed, the following speeds will be maximum permitted:
-	With main and side rods removed:
í	All classes
٠.	With main rods removed and side rods in place:
	All classes
	Over bridges
	Engines with either or both main and side rods removed shall not be moved over any bridge at a speed in excess of 20 MPH, and the speed

Engines with either or both main and side rods removed shall not be moved over any bridge at a speed in excess of 20 MPH, and the speed shall be further reduced over bridges which carry speed restrictions against the class of power being so moved. In the latter case, the speed of an engine with rods removed shall be reduced over the bridge to one-half the restricted speed for that engine in working order, as shown under "Bridge and Engine restrictions."

Dead engines with all rods up or in place, the piston rod being 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 such engines are moved.

Bridge or other restrictions applicable to these engines when in operating condition to be observed.

### 21. Handling of Explosives-

(Position of Explosive Cars in Trains.)

Cars placarded "Explosives" must be placed in through freight trains near the middle of the trains and must be not nearer than the sixteenth car from the engine, or a caboose in service if next to engine, electric locomotive, or motor car, nor the eleventh car from the rear end caboose, if the length of the train will permit. Cars placarded "Explosives" in all cases must be not nearer than the second car from engine, electric locomotive, motor car, or caboose. Where helper engines or electric locomotives are employed ahead of caboose, cars placarded "Explosives" must be separated from such helpers by at least one car.

Cars placarded "Explosives" may be placed in local freight trains, or mixed trains when authorized herein, not nearer than the second car from the engine, electric locomotive, motor car, or a caboose in service, when placing them near the middle of the train would require additional switching at way stations.

Cars placarded "Explosives" must not be placed in through or local trains next to dead engines, loaded tank cars, wooden-frame flat or gondola cars; or carloads of pipe, lumber, poles, iron, steel, or similar lading which by shifting may break through end of car placarded "Explosives" due to rough handling; refrigerator cars equipped with automatic refrigeration of the gas-burning type; nor next to cars containing lighted heaters, stoves, or lanterns; or cars with live stock or poultry occupied by an attendant.

Cars placarded "Explosives" must not be placed in through or local trains next to cars which bear "Dangerous" placards, unless the remainder of the train consists only of such cars.

### (Position of Loaded Placarded Tank Cars in Trains.)

Placarded loaded tank cars must not be placed in trains next to cars placarded "Explosives" nor next to cars containing lighted heaters, stoves, or lanterns; nor next to refrigerator cars equipped with automatic refrigeration of the gas-burning type; nor next to flat cars with lading such as logs, lumber, rails, or pipe, or gondola cars with such lading higher than ends, that is liable to shift. In through trains such tank cars must not be placed nearer than the sixth car from the engine, electric locomotive or motor car, or a caboose in service, and in local trains not nearer than the second car from the engine, electric locomotive, motor car or a caboose in service, when length of train permits and cars other than loaded tank cars are in the train.

### Careful handling of explosive cars-

When handling cars placarded "Explosives" in yards or on siding explosives cars must be coupled to engine, electric locomotive, or moto car, protected by a car between.

Cars placarded "Explosives" must not be handled with doors open.

Cars placarded "Explosives" must not be cut off while in motion, and must be coupled carefully and all unnecessary shocks must be avoided. Other cars must not be cut off and allowed to strike a car containing explosives. Cars placarded "Explosives" must be so placed in yards or on sidings that they will be subject to as little handling as possible and be removed from all danger of fire. Such cars must not be placed on tracks under bridges and should not be placed in or along side passenger sheds or stations; and, when avoidable, engines on parallel tracks must not be allowed to stand opposite or near them.

When cars protected by "Explosives" placards are received or held in yards, particularly at night, the carrier must see that precautions are taken to prevent accidents. These precautions must include provision for quickly removing and isolating the cars in case of fire.

### Inspection of explosive cars when time permits-

At points where trains stop and time permits, cars placarded "Explosives", and adjacent cars, must be examined to see that they are in good condition and free from hotboxes or other defects liable to cause damage. If such cars are set out short of destination for any cause, conductor must notify superintendent by wire.

### 22 Tunnel Locations-

Tunnel Locations—	
(Main Line)	Length
No. 1—2.9 miles west of Prindle	. 2,381 ft.
No. 2—1.7 miles east of Cooks	. 122 ft.
No. 3—2.1 miles east of Cooks.	. 416 ft.
No. 4—2.6 miles east of Cooks	. 267 ft.
No. 5—3.2 miles east of Cooks	. 394 ft.
No. 6—3.9 miles east of Cooks	. 657 ft.
No. 7—7.2 miles east of Bingen-White Salmon	. 966 ft.
No. 8—7.5 miles east of Bingen-White Salmon	. 755 ft.
No. 9—7.7 miles east of Bingen-White Salmon	. 392 ft.
No. 10—7.9 miles east of Bingen-White Salmon	. 575 ft.
No. 11—0.6 miles east of Lyle	. 269 ft.
No. 12—2.1 miles east of Wishram	. 385 ft.
No. 13—1.1 miles east of Plymouth	. 699 ft.
No. 14—5.1 miles west of Farrington	. 203 ft.
No. 15—2.5 miles west of Farrington	. 323 ft.
No. 16—3.2 miles east of Farrington	. 2,494 ft.
No. 17—0.9 miles west of Kahlotus	. 2,220 ft.
No. 18—4.1 miles east of Hooper	. 369 ft.
No. 19—0.6 miles west of Ft. Wright	. 2,134 ft.
en Pacific Co., Turletin	Arena mar
(Oregon Trunk)	
No. 1—1.4 miles west of Moody	
I SOS AND AND STREET INDICATED TO THE PRINT WAS AND THE PRINT OF THE P	Committee Commit
No. 2—3.4 miles west of Sherar	800 ft.
No. 3—0.5 miles west of Frieda	
No. 4—0.6 miles east of Davidson	584 ft.
No. 5—1.8 miles west of Gateway	
Caleman 71.0	
(S. P. & S. 4th Sub Division)	
No. 1—1.0 mile west of Tunnel Spur	
No. 2—0.3 mile west of Top Hill.	
Albany	
(Astoria Line)	
(resource to the control of the cont	

21

No. 1—1.2 miles east of Mayger.....

31	Handling of Emphasis another	Miles from Portland	00	Location, Capacity and Fa	ailitian of Stor	alema nda	
23.	Interlocking Plants—	Challe I bush	26.		cilities of Sto	Ayarus—	
	Willbridge Willamette River draw bridge	Call Street, Street, St. 1916		Vancouver Division: Location	No. of Pens	Capacity in Cars	
	North Portland Junction			Vancouver	. 1	2	Water
33.5				Bingen-White Salmon	. 2	2	Water
	Oregon Slough draw bridge	IL ESTABLISH TO MADE IN THE		Lyle	. 4	10	Water
	Columbia River draw bridge			North Dalles	. 3	7	None
	Marshall Junction, Northern Pacific Ry	368.8		Wishram	. 6	20	Water
	Fort Wright, Great Northern Ry	377.2		Maryhill		5	None
	The following engine whistle signals will be sounded	by enginemen in		Roosevelt		10	Water
	calling for route at Columbia River draw bridge betw and Vancouver:	een No. Forwand		Alderdale	2 sheep	9	None
	Eastward: one long blast for N. P. Ry.; two short a	and one long blast		Whitcomb		Thines 14	None
	for S. P. & S. Ry.			Paterson	2 cattle 3 sheep	5 20	None
	Westward: from S. P. & S. Ry. main track, one shone short.	fort, one long and	10000	Plymouth		5	Water
	From N. P. Ry. four short.	27-01-02	No.	Kennewick		2	None
	In calling for diverging route through interlocking a	t North Portland		and controls I	1 sheep	8	- Albana
	Jct. the following engine whistle signals will be sounded	d:		Pasco		40	Water
	From and to U. P. R.R. one short and one long bla	ast.		Harder		5	None
	Stock vards: from S. P. & S. Ry. one short, one le	ong and one short		Washtucna	222	2	Water
	blast; from U. P. R.R. four short blasts.	211 211 1011		Hooper		8	None
	Assigned hours of draw bridge tender, Oregon Slough	oridge, are 8 A.M.		Ankeny		2	None
	to 4 P.M., but is subject to call (Tel. University 290	necessary to flag		Benge		2	Water None
	11 Little interlegising plant it must first he agrer	sined if the draw		Lantz		2	None
	bridge tender is not on duty, and then flagmen must be sure that derails and rail locks are in proper position	n.		Macall	-	4	None
-				Lamont		2	None
-21	the base will be placed realer lists the farth had	Miles from		Rodna		5	None
24.	Overhead Crossings—	Portland				Š	None
	Fourth Sub-division, 0.5 mile west of United Jct	10.5		Amber		9	Water near
	Southern Pacific Co., Tualatin	35.8		Goldendale	Condition of the Park	5	Water
	Southern Pacific Co., Albany			Sherar		4	Feed Racks
	Union Pacific R.R., 0.8 mile west of Kennewick		Alle	Maupin		8	∫Water, Feed
	Union Pacific R. R., 2.1 mile east of South Cheney			Marie Carlo			Racks & Scales
			- Van	Dant	1	1	Feed Racks
	Northern Pacific R. R., 3.7 mile east of South Cheney	7 304.1		Kaskela		1	None
				South Junction		10	Water
25.	Railway Crossings—	MEDICAL OF		Gateway		12	Water
.51	(O. E. 1st Sub-Division)	Miles from Portland	10	Madras	Control of the last of the las	12	Water &
		70.9		Metolius	1 -	2	Feed Racks
	S. P.Co., Salem	All the times of company		Culver	2	4	None
	S. P. Co., Salem			Terrebonne	4	8	Water &
	S. P. Co., Salem	the state of the s	1	Redmond	10	22	(Water, Feed
	S. P. Co., Salem	71.5		C. Aller Market Control		physiol I—	Racks & Scales
	S. P. Co., Albany	97.7		Deschutes		4	Feed Racks
	S. P. Co., Albany			Bend	7 2 sheep	15 5	Water, Feed Racks & Scales
	S. P. Co., Albany			A ST. WARRE	2 oncop	Total T	- Admin
	S. P. Co., Lasen			Portland Division—	C. Lawrence	The Table	Water
	5. 1. Ou, Dascil.	(mi.Fanohit) ===		Quincy	in office.	paragola I —	malas
	(O. E. 4th Sub-Division)	estulator lite		Oregon Electric Ry.—	.00	no bray-	Alberry
	S. P. Co., Hillsboro	26.3		Albany Yard	4 Tho she	5	Water
					00		

### 27. Bulletin Stations-

Portland —Union Station telegraph office.

Roundhouse.

Yard office.

Vancouver —Telegraph office and roundhouse. Yard office (yard men only).

Wishram —Telegraph office and roundhouse.

Bend —Telegraph office and roundhouse.

Goldendale —Telegraph office.

Lyle —Telegraph office.

Pasco —Passenger Station telegraph office.

Roundhouse.

Spokane -G. N. passenger station.

Hillyard -Roundhouse.

Astoria -Passenger Depot and Round House.

Seaside —Passenger Depot.

Salem —Depot.

Albany -Yard Office and Round House.

Eugene —Depot.

Sweet Home -Depot.

Vernonia -Depot.

### 28. Watch Inspectors-

Ball Railroad Time Service of Oh	nio. 284 Endicott Bldg., St. Paul, Minn.
Roy and Molin	316 S. W. Alder St., Portland
Zell Brothers	629 S. W. Broadway, Portland
W. L. Runyan	Vancouver
Robt. G. Tvack	
Swanson Jewelry Co	Pasco
Swanson Jewelry Co	No. 9, Washington St., Spokane
M. C. in Touris Chang	Hillyard
M H Symons	Bend
Loop-Jacobsen	
Hartman Bros. Co	Sale
F. M. French & Sons	Albany
Seth Laraway	Eugene
W E White	Sweet Home
Kullander's Jewelry Store	Vernonia

### 29. Standard Time Clocks-

Portland —Union Station telegraph office. Roundhouse and Yard Office.

Vancouver -Telegraph office and Roundhouse.

Wishram -Telegraph office.

Pasco -Telegraph office and Roundhouse.

Spokane -G. N. Passenger Station.

Hillyard —Yard office, Roundhouse.

Bend —Telegraph office.

Astoria —Telegraph office.

Seaside —Telegraph office. Vernonia —Telegraph office.

Salem —Telegraph office.

Albany —Yard office.

Eugene — Telegraph office.

### SPEED TABLE

Tim Per M Minutes	ile	Miles Per Hour	Tir Per l Minutes	Mile	Miles Per Hour
0	45	80	1	12	50
0	46	78.3	1	15	48
ŏ	47	76.6 75	1	20	45
ŏ	48	75	1	25	42.3
ŏ	49	73.5	1	30	40
ŏ	50	72	1	40	36
0 0 0	51	70.6	1	45	34.3
ŏ	52	69.2	1	50	32.7
0 0	53	69.2 67.9	2	F P	30
Ö	54	66.6	2	iò	27.6
Ö	55	65.4	2	15	26.6
ő	56	64.2	2	20	25.7
0 0	57	63.1	2	30	24
ő	58	62.0	2	40	22.5
Ö	59	61.0	2	45	21.8
1		60	2	50	21.2
1	i	59	3		20
i	2	58	3	9	19
î	2 3	57.1	3	20	18
î		56.2	3	31	17
i	4 5 6	55.3	3	45	16
i	6	54.5	4		15
i	7	53.7	5		12
1	8	52.9	2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		10
1	8 9	52.1	7	30	8
1	10	51.4	10		6

R. C. SCOFFERN, Assistant Superintendent

J. L. MONAHAN, Trainmaster

C. F. CROFFUT, Trainmaster

R. P. JEFFREY, Trainmaster

H. M. BATES, Trainmaster

R. G. HASKELL, Trainmaster

F. L. WEBER, Chief Dispatcher, Portland

F. C. WAGER, Mechanical Supt., Vancouver

C. E. BARNES, Master Mechanic

W. C. ABBOTT, Traveling Engineer

J. M. WASSENAR, Traveling Engineer

J. T. CRAINE, Traveling Engineer

Oregon Bleetate By.

# CLEARANCE TABLE

	II.			H	EIGHT	HEIGHTS ABOVE TOP OF	VE T	OP OI	F RAIL	2	00000	10000	100000	GOVERNING
ber ber	I' Wide	2' Wide	3' Wide	4' Wide	5' Wide	6' Wide	7' Wide	8' Wide	8' 6" Wide	9, Wide	10' Wide	11 Wide	11'-6" Wide	STRUCTURE
Portland—Vancouver 19'	19' 4"		19' 4"	19' 4" 19' 4"		19' 4"	19' 4"	19' 4" 19' 4" 19' 2"	19' 2"	19,	18' 3"	17' 9" 17'	17,	Willamette River Bridge Columbia River Bridge
Vancouver Spokene	20,	20,	19, 6"	19, 6"	19,0	19,	19,	18, 6,,	18,	18,	12, 6"	17,	16'-6"	All Tunnels
who Goldendale	20,	20,	19' 6"	19' 6"	19, 6"	19,	19,	18' 6"	18,	18,	12, 6"	17,	17,	None
Wishram—Bend	20,	20,	20,	20,	19'9"	19'6"	19'13"	16,	18'9"	18'6"	18,	17'6"	17,	All Tunnels
Portland—Holladav. 18	18' 6"	18,	17' 6"	17'	17,	16' 6"	16' 6" 16'	16'	15' 9"	15' 6"	15'	14'	1	Mayger Tunnel
Warrenton—Fort Stevens.	20,	20,	20,	19,	19,	19,	18,	19,	18,	18,	18,	18,	18,	None
O. E. Rv.—S. P. & S. Portland Yard Limits 19	16,	19,	19,	19,	19,	19,	16,	18,	19,	18,	19,	18,	1	Track Centers
Forest Grove Jet.—Forest Grove.	19,	19,	19,	19,	16,	16,	19,	19,	18,	18,	18,	18,	16,	None
Bowers Jet —Figene	16'	16'	16'	16'	16'	16,	16,	16,	16,	16'	16′	16,	1	Tualatin S. P. Overhead
John Dollar 19	19,	19,	19,	19,	19,	16,	16,	18' 6"	18,	18,	18,	17,	16,	None
Orenco—Bowers Junction	16,	16,	19,	16,	19,	.61	16,	18,	18,	18,	18,	18,	18,	None
Inited Junction—Wilkesboro	19,	16,	19,	19	19,	,61	18,	18' 6"	18,	17' 6"	17,	17,	1	Cornelius Tunnel
Wilkeshoro—Keasey	19,	18,	18,	19,	18,	18, 6,,	18, 3"	18,	12, 8,,	17' 6"	17′	16,	I	Tophill Tunnel
Wilkesboro Glenwood.	19,	19,	16,	18,	19,	19,	18'6"	18, 6"	18,	18,	18,	18,	١	None

Conductors must be absolutely positive that loads do not exceed these dimensions and must not move cars of greater dimensions without instructions from Superintendent.

# LOCOMOTIVE TONNAGE RATINGS

TO THE PERSON OF THE PERSON NAMED IN	STATE OF THE PARTY	1.0				0	TASS	CLASS OF ENGINE	GINE				
SUB-DIVISION	VANCOUVER DIVISION District	Ruling Grade %	0-1	82.22 84.22	GN R-1	Z-6 Z-8	E-1	NP W-3 W-5	Н-1	5	N-2 Sup.	N-2 Sat.	N-1
Oregon Trunk—Eastward	Wishram to South Junction	9.	3500	3500	6200	0009	ı		1500	1000			
	South Junction to Madras	1.5	1400	1400	2600	2400			009	450			
	Madras to Bend	1.0	2200	2200	4318	3820			1200	800			1
Oregon Trunk—Westward	Bend to Wishram	Down				200	Car	Limit					
First and Second—Eastward Vancouver	Vancouver to Pasco	.2	0099	0099	0006	0006	8000		4200	3000	2000	3500	
First and Second—Westw'rd Pasco to Vancouver	Pasco to Vancouver	Down				H	Car	Limit				7	
Third-Eastward	Pasco to Snake River	.2	0099	0099	0006	0006	8000	0099	4200	3000			
	Snake River to Mock	4.	4000	4000	7200	7050	4500	4000	1500	1000			
	Mock to Ft. Wright	Down		P			Car	Limit					
	Ft. Wright to Hillyard	1.0	1800	1800	4100	3950	2400	TO TO THE					
Paradian ball and		Down					Car	Limit					
Third-Westward	Ft. Wright to Mock	1.0	1800	1800	4000	3820	2400	ě		BO			
ROE-DIVIDED	Mock to Pasco	Down					Car	Limit	N. W.				
Fourth—Eastward	Lyle to Goldendale	2.2									750	009	200
Fourth-Westward	Goldendale to Lyle	Down	NEW O	G.	The Fig.	MCS	Car	Car Limit					

# LOCOMOTIVE TONNAGE RATINGS

		1000				٥	TASS	CLASS OF ENGINE	NGINE	
SUB-DIVISION	OREGON ELECTRIC District	Ruling Grade	N-2 Sup.	N-2 Sat.	N-6 Sup.	N-6 N-7	0-5	0-1	DE 660	DE 1000
First-Westward	Bowers Jct. to Tualatin	Down	3500	3000	3000	2500	3500	4000	1750	3500
	Tualatin to Tonquin	1.1	1600	1250	1250	1000	1600	2000	800	1600
	Tonquin to Wilsonville	Down					Car	Limit		
Walterey office	Wilsonville to West Woodburn	1.2	2000	1500	1500	1250	2000	2400	1000	2000
	West Woodburn to Eugene	4.	3000	2500	2500	2000	3000	3500	1250	2500
First-Eastward	Eugene to Albany	Down							1500	3000
	Albany to Salem	4.	0009	4550	4550	4200	0009	0099	1350	2700
	Salem to Wilsonville	1.0	4175	3025	3025	2750	4175	2000	1250	2500
	Wilsonville to Bowers Jct.	1.0	1850	1600	1600	1500	1850	2200	800	1600
Second—Westward	Forest Grove Jct. to Forest Grove	1.0				S Day of			750	1500
Second—Eastward	Forest Grove to Forest Grove Jct.					1/ Policy in			800	1600
Third-Westward	Albany to Sweet Home		1850	1500	1500	1250		To A	800	1600
Third—Eastward	Sweet Home to Albany	Down					Car	Limit		
Fourth-Westward	Sweet Home to Dollar	2.4	750	220	550	400	300	01		
Fourth-Eastward	Dollar to Sweet Home	1.75	1050	775	775	200	7			

# LOCOMOTIVE TONNAGE RATINGS

						_	TASS	CLASS OF ENGINE	NGINE				
SUB-DIVISION	PORTLAND DIVISION District	Ruling Grade	F-1	N-1	N-2 Sup	N-2 Sat	N-6 N-7	9-N	0-2	0-1	D-2 D-4	DE 660	DE 1000
First-Westward	Willbridge to St. Helens	.56	2150	2000	4000	3200	2400	2750	4000	2000	1000		
	St. Helens to Astoria	Down					Car	Limit					
First-Eastward	Astoria to St. Helens	79.	3000	2800	4500	3700	2800	3200	4500	5500	1500		
	St. Helens to Willbridge	Down					Car	Limit					
Third-Westward	Wilkesboro to Glenwood	2.2	550	200	006	200	009	200					
Third-Eastward	Glenwood to Wilkesboro	∞.	1250	1150	2000	1800	1500	1800					
Fourth-Westward	United Jct. to Ban Spur	2.0	550	200	950	675	600	675	950	1100		450	006
	Rafton to Ban Spur	2.5			750	009			750	006			
	Ban Spur to Rockton-Manning	1.5	650	550	1100	800	725	800	1100	1250		200	1000
	Manning to Tophill	2.2	250	200	200	009	525	009	200	1050			-
	Tophill to Vernonia	Down					Car	Limit					
Fourth-Eastward	Vernonia to Brauns	œ.	800	200	2500	2000	1850	2000	2500				
	Brauns to Tophill	1.5	800	650	1100	006	875	006	1100				
	Tophill to North Plains	Down					Car	Limit					
	North Plains to Rockton	1.0	1250	1050	1850	1600	1500	1500   1600	1850			800	1600

	STREET,				a 44 Series					
								St. Medan		
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