

EMERGENCY TELEPHONE NUMBERS

Ambulance	0
Emergency operator	0
Fire	119
Police	110

DISPATCHERS' TELEPHONES

Located as follows:

Colon Station (Baggage Room)
 13 St. Tower (Dial)
 Tower B
 Cristobal Yard Office (Two long)
 Mt. Hope Station
 Mindi
 Atlantic Depot Span 4-18 (Dial 5-494)
 Gatun Station (Two long, one short)
 Quebrancha (Span 11.15)
 Monte Lirio Bridge Control House (Dial)
 Monte Lirio Station
 Bohio (South Switch)
 Frijoles Station (One long, one short)
 Caimito Span 27-3
 Span 29-13 North Wye Switch Gamboa
 Gamboa Station (One long, three short)
 Summit (South Switch)
 Madden (North Switch)
 Track Span 38-3 (Dial 4-454)
 Pedro Miguel Station (One short, two long)
 Tunnel (Span 42-1)
 Fort Clayton (Dial 2-1593)
 Corozal Station (In office)
 Diablo (North Switch)
 Balboa Yard Office (Three long)
 Balboa Station platform (North end)
 Tivoli Crossing Tower (Dial)
 Panama Station (Conductor's Room)

WATCH INSPECTORS

Colon:

Panama:
 Mrs. B. J. Burgoon,
 159 Central Ave.

SPECIAL INSTRUCTIONS**1. SAFETY FIRST.**

Safe operation and conduct are more important than making schedule time.

2. STANDARD CLOCK.

Dispatcher's office, Balboa Heights.

3. TRAIN ORDER STATIONS.

Followed by sign D are open:

Colon	6:30 a. m. to 6:30 p. m.
Mt. Hope	Continuous
Gatun	6:45 a. m. to 2:00 a. m.
Frijoles daily ex S. & H. ...	6:00 a. m. to 2:00 a. m.
Frijoles Sun. & holidays ...	7:00 a. m. to 2:00 a. m.
Gamboa daily ex S. & H. ...	6:15 a. m. to 2:00 a. m.
Gamboa Sun. & holidays ...	7:00 a. m. to 2:00 a. m.
Pedro Miguel Dex S. & H. ...	6:45 a. m. to 2:00 a. m.
Pedro Miguel S. & H. ...	7:00 a. m. to 2:00 a. m.
Diablo	Continuous
Panama	6:30 a. m. to 6:30 p. m.

72. SUPERIORITY OF TRAINS.

SOUTHWARD trains are superior to trains of the same class in the opposite direction.

EXCEPTION: No. 2 is superior to No. 3

CLEARING OF TRAINS.

A train must not leave its initial station without receiving Clearance Card (Form A).

Where the initial station is a nontelegraph office, conductor, or engineer in the absence of the conductor, will receive clearance direct from the dispatcher.

83. TRAIN REGISTERS.

Colon	Passenger station
Cristobal	Yard office
Balboa	Yard office
Panama	Passenger station

Train register at Cristobal and Balboa for trains originating and terminating at Mt. Hope and Diablo only.

BULLETIN BOARDS AND BOOKS.

Colon	Passenger station
Cristobal yard	{ Yard office Engine house
Balboa yard	{ Yard office Engine house
Panama	Passenger station

SPUR TRACKS AND AUXILIARY SIDINGS

Track span	Name of track	Switch connections
4-17	Atlantic Depot	North
6-11	Gatun Old Passing Track	North
6-16	Gatun Old Passing Track	South
12-12	Quarry Spur	North
25-5	Darien	North
28-6	Dump Six	South
30-4	Gamboa Run Around	North
30-7	Gamboa Run Around	South
34-6	Summit Spur No. 1	South
34-15	Summit Spur No. 2	South
35-8	Navy Spur (Off Summit Siding)	North
35-17	Incinerator	South
40-4	Paraiso	South
41-14	Tunnel	North
42-12	C. Q. M. Spur	South
42-13	Miraflores	South
43-5	Fort Clayton	South
44-15	Albrook Field	North

NOTE.—Gatun Old Passing track has a capacity of 40 cars and Gamboa Run Around of 7 cars.

DERAILS

Location	Type of derail
Mt. Hope, substation	Hand throw
Mindi	Pipe connected
Atlantic Depot	Pipe connected
Gatun, North end Old Passing track	Pipe connected
Gatun, Lead to lower level locks	Hand throw
Quarry Spur Span 12-12	Pipe connected
Dump six	Pipe connected
Gamboa, Cerro Pelado track	Pipe connected
Gamboa, Dredging Div. lead	Hand throw
Summit, House track	Pipe connected
Incinerator	Pipe connected
Madden, South end siding	Pipe connected
C. Q. M. Spur Span 42-12	Pipe connected
Miraflores, Substation	Hand throw
Miraflores Bridge approach, south end	Pipe connected
Balboa, Sosa Hill Quarry track	Hand throw
Tower J, Building Div. Spur	Pipe connected
Ancon, Spur to Commissary	Pipe connected

NOTE.—All turnouts having derails have been identified by painting base of switch stand with aluminum paint.

33. CROSSING WATCHMEN.

Crossing watchmen will use stop paddles by day, and white lanterns by night, to stop highway traffic.

PROTECTION OF MOVEMENTS OVER HIGHWAY CROSSINGS

Visual and audible signals for protection at highway crossings do not operate for movements in either direction on tracks other than Main Track, such as sidings, industrial tracks, etc.; nor do they operate on Main Track if a movement is reversed before running over and clearing the entire length of the bell-ringing track circuit. Therefore, the following instructions govern

(Continued on page 6)

SOUTHWARD					NORTHWARD										
SECOND CLASS		FIRST CLASS			Telegraph Calls	STATIONS	Station Numbers	Distance from Colon	Car Capacity of Sidings	FIRST CLASS				SECOND CLASS	
31	9	7	5	3						2	4	6	8	32	
DAILY EXCEPT SUNDAY	DAILY	DAILY	DAILY	DAILY						DAILY	DAILY	DAILY	DAILY	DAILY EXCEPT SUNDAY	
MIXED														MIXED	
AM	PM	PM	PM	AM		Leave	Arrive		AM	PM	PM	PM	AM		
	10.00	4.40	12.15	7.00	J	COLON	1.12	0	0.00	Yard	8.30	1.40	6.15	9.20	
	10.02	4.42	12.17	7.02		Tower B	1.12	1	1.12	Yard	8.27	1.37	6.10	9.18	
5.30	s 10.04	s 4.45	s 12.19	s 7.04	YD	Mount Hope	0.46	2	1.58	Yard	s 8.26	s 1.36	s 6.09	s 9.17	11.30
5.34	10.08	4.49	12.23	7.08		Mindi	2.57	4	4.15		8.21	1.31	6.04	9.12	11.25
						Fort Davis	1.59	6	5.76						
s 5.45	s 10.14	s 4.56	s 12.32	s 7.14	G	Gatun	1.65	7	6.80	29	s 8.18	s 1.27	s 6.00	f 9.09	s 11.14
							4.98								
f 5.54	10.20	5.04	12.39	7.21		Quebrancha	2.69	12	11.72	55	8.08	1.18	5.49	9.01	f 10.50
f 6.00	10.24	s 5.09	12.42	s 7.25		Monte Lirio	3.35	15	14.50	68	s 8.04	1.15	s 5.45	8.57	f 10.45
f 6.05	10.28	5.13	12.46	7.29		Bohio	3.11	18	17.83	24	7.58	1.11	5.40	8.52	f 10.37
s 6.15	10.34	s 5.19	12.50	s 7.35	JR	Frijoles	4.40	21	20.94	55	s 7.53	1.07	s 5.36	8.47	s 10.30
f 6.25						Darien	1.71	25	25.33						f 10.10
6.28	10.42	5.27 ⁶	12.59 ⁴	7.45 ²		Caimito	3.15	27	27.17	55	7.45 ³	12.59 ⁵	5.27 ⁷	8.37	10.07
s 6.40	f 10.48	s 5.34	s 1.04	s 7.50	BO	Gamboa	5.00	30	30.19	56	s 7.40	s 12.52	s 5.20	f 8.32	s 10.00
f 6.50	10.57	5.43	1.13	7.58		Summit	1.00	35	35.20	55	7.31	12.43	5.11	8.23	f 9.35
6.52	10.58	5.44	1.14	7.59		Madden	4.66	36	36.27	11	7.29	12.42	5.10	8.21	9.20
s 7.22 ²	f 11.05	s 5.53	s 1.22	s 8.07	W	Pedro Miguel	2.71	40	40.26	79	s 7.22 ³¹	s 12.35	s 5.02	f 8.15	s 9.10
						Fort Clayton	1.28	43	42.96	25					
f 7.32	11.11	s 6.02	s 1.29	s 8.15		Corozal	6.83	44	44.24	30	s 7.12	s 12.27	s 4.52	8.08	f 8.55
7.35	11.12	6.03	1.30	8.16	JN	Diablo	1.20	45	44.97	Yard	7.09	12.24	4.49	8.07	8.50
	s 11.15	s 6.10	s 1.36	s 8.20		Balboa Heights	0.14	46	46.28	Yard	s 7.07	s 12.22	s 4.47	s 8.05	
						Tower J	1.21	47	46.45	Yard					
AM	11.20	6.15	1.40	8.25	D	PANAMA		48	47.62	Yard	7.00	12.15	4.40	8.00	AM
PM	PM	PM	PM	AM							AM	PM	PM	PM	AM
31	9	7	5	3							2	4	6	8	32
DAILY EXCEPT SUNDAY	DAILY	DAILY	DAILY	DAILY							DAILY	DAILY	DAILY	DAILY	DAILY EXCEPT SUNDAY

(Special Instructions—continued from page 3)

except when otherwise provided by special instructions: When a reverse movement is made on Main Track at a highway crossing in such a manner that the crossing signals do not operate, or on sidings or other tracks so protected, a member of the train crew must protect the crossing while the movement is being made.

Train and engine service employees must familiarize themselves with the location of crossings protected with the visual and audible signals.

When passing over any highway crossing protected by crossing bells or visual signals, motormen or engineers will observe if signals are operating. If not operating properly, notify Master of Transportation promptly by wire so that proper protection may be given the crossing.

YARD LIMITS.

Yard limit board located at track span 2-10 governs all tracks north of that point.

Yard limit boards located at track span 29-6 and at telephone booth 700 feet south of Chagres River bridge govern Gamboa area.

Yard limit board located at track span 44-9 governs all tracks south of that point.

93. YARDS.

Northward movements, except scheduled first class trains, Panama to "Tower J," must be made on track No. 2, unless otherwise provided.

211. TRAIN ORDERS.

When conductors or engineers copy train orders direct from the dispatcher, they will write them in manifold during transmission, and repeat from the manifold copy. After the order is completed, a copy must be left in the train order box provided for that purpose.

LOCOMOTIVE CRANES.

Steam cranes 72 and 88 must be handled with boom forward when in train.

AIR BRAKES.

In switching passenger equipment, air brakes must be used unless impracticable, and cars which are occupied must not be uncoupled while in motion.

A running test of air brakes will be made on all passenger trains as soon as practicable after leaving initial station.

505. AUTOMATIC SIGNALS.

At meeting points, when automatic signal at entrance of siding indicates stop, train taking siding may proceed into siding if the opposing train is clear of the route to be used, and train having right to main track may proceed at a speed not exceeding ten (10) miles per hour to clearance point of switch used by opposing train.

Diablo Siding extends from north end of Balboa yard to Balboa Heights station; switches must be lined for normal position. No part of Diablo siding may be used for the storing of cars.

221-500.

During the hours train order stations at Gatun and Pedro Miguel are open, Automatic Block Signal 698, located at north end of siding at Gatun, and Automatic Block Signal 4034, located at north end of siding at Pedro Miguel may be operated as Semi-Automatic Block Signals requiring manual assistance from the Operator to bring them to either of their "proceed" indications. When either of these Semi-Automatic Block Signals indicates "stop," a train will stop clear of the route of opposing trains entering the siding.

NOTE.—The semi-automatic operation of Automatic Block Signals 698 and 4034 is provided primarily to safeguard the movements when the superiority of northward trains at Gatun or Pedro Miguel is restricted by train order received at the point where superiority is restricted.

767. SWITCHING.

Rule 767 and 821 are revised:

The dropping of cars will be restricted to a minimum. When practicable, and conditions permit, cars will be run around instead of dropped.

When necessary to make running switches, ENGINE must use straight or main route; cars only may be dropped through the turnout.

793. At meeting points where there is no open train order office, but where there are other means of communication available, conductors will immediately communicate with train dispatcher if train to be met is not in sight.

WEED BURNING RESTRICTIONS

FORT RANDOLPH BRANCH

Flame on weed burner must be shut off when in vicinity of Gasoline Tanks at Naval Air Station, Fleet Air Base.

COROZAL ORDNANCE DEPOT

Flame on weed-burner must be shut off when entering gate to Ordnance Section, Corozal, and not turned on again until the concrete apron beyond the magazine has been passed.

The spur track to the magazine within the gate will not be burned.

ALBROOK FIELD

Flame on weed burner must be shut off when in vicinity of underground Gasoline tanks.

BALBOA SHOP AREA

The Gas Production Plant at Balboa manufactures hydrogen and acetylene gases, both are highly inflammable. On account of the fire hazard, all open flames are prohibited in and around the building. Crews on weed-burner must extinguish all flames when on either track running to the Coaling Plant or Dock 7, when within 100 feet of the building, and the burners are not to be reignited within 100 feet of the building in either direction.

P. L. MALONE
MASTER OF TRANSPORTATION

DISPATCHERS:

L. E. NEAL
V. B. DINGLEDINE
S. N. BELANGER

A. C. WOOD
TRAINMASTER

EXTRA DISPATCHERS:

J. W. O'CONNELL
E. R. ALBRITTON

SPEED TABLE

NOTE—This table is for information only and does not authorize exceeding speed limitations of special instructions or however issued.

Time per mile	Miles per hour	Time per mile	Miles per hour	Time per mile	Miles per hour	Time per mile	Miles per hour
1 min. 0 sec.	60.00	1 min. 47 sec.	33.64	2 min. 35 sec.	23.23	3 min. 23 sec.	17.73
1 " 1 "	59.02	1 " 48 "	33.33	2 " 36 "	23.08	3 " 24 "	17.65
1 " 2 "	58.06	1 " 49 "	33.03	2 " 37 "	22.93	3 " 25 "	17.56
1 " 3 "	57.14	1 " 50 "	32.73	2 " 38 "	22.78	3 " 26 "	17.48
1 " 4 "	56.25	1 " 51 "	32.43	2 " 39 "	22.64	3 " 27 "	17.39
1 " 5 "	55.38	1 " 52 "	32.14	2 " 40 "	22.50	3 " 28 "	17.31
1 " 6 "	54.55	1 " 53 "	31.86	2 " 41 "	22.36	3 " 29 "	17.22
1 " 7 "	53.73	1 " 54 "	31.58	2 " 42 "	22.22	3 " 30 "	17.14
1 " 8 "	52.94	1 " 55 "	31.30	2 " 43 "	22.08	3 " 31 "	17.06
1 " 9 "	52.17	1 " 56 "	31.03	2 " 44 "	21.95	3 " 32 "	16.98
1 " 10 "	51.43	1 " 57 "	30.77	2 " 45 "	21.82	3 " 33 "	16.90
1 " 11 "	50.70	1 " 58 "	30.51	2 " 46 "	21.69	3 " 34 "	16.82
1 " 12 "	50.00	1 " 59 "	30.25	2 " 47 "	21.56	3 " 35 "	16.74
1 " 13 "	49.31	2 " 0 "	30.00	2 " 48 "	21.43	3 " 36 "	16.67
1 " 14 "	48.65	2 " 1 "	29.75	2 " 49 "	21.30	3 " 37 "	16.59
1 " 15 "	48.00	2 " 2 "	29.51	2 " 50 "	21.18	3 " 38 "	16.51
1 " 16 "	47.37	2 " 3 "	29.27	2 " 51 "	21.05	3 " 39 "	16.44
1 " 17 "	46.75	2 " 4 "	29.03	2 " 52 "	20.93	3 " 40 "	16.36
1 " 18 "	46.15	2 " 5 "	28.80	2 " 53 "	20.81	3 " 41 "	16.29
1 " 19 "	45.57	2 " 6 "	28.57	2 " 54 "	20.69	3 " 42 "	16.22
1 " 20 "	45.00	2 " 7 "	28.35	2 " 55 "	20.57	3 " 43 "	16.14
1 " 21 "	44.44	2 " 8 "	28.12	2 " 56 "	20.45	3 " 44 "	16.07
1 " 22 "	43.90	2 " 9 "	27.91	2 " 57 "	20.34	3 " 45 "	16.00
1 " 23 "	43.37	2 " 10 "	27.69	2 " 58 "	20.22	3 " 46 "	15.93
1 " 24 "	42.86	2 " 11 "	27.48	2 " 59 "	20.11	3 " 47 "	15.86
1 " 25 "	42.35	2 " 12 "	27.27	3 " 0 "	20.00	3 " 48 "	15.79
1 " 26 "	41.86	2 " 13 "	27.07	3 " 1 "	19.89	3 " 49 "	15.72
1 " 27 "	41.38	2 " 14 "	26.87	3 " 2 "	19.78	3 " 50 "	15.65
1 " 28 "	40.91	2 " 15 "	26.67	3 " 3 "	19.67	3 " 51 "	15.58
1 " 29 "	40.45	2 " 16 "	26.47	3 " 4 "	19.57	3 " 52 "	15.52
1 " 30 "	40.00	2 " 17 "	26.28	3 " 5 "	19.46	3 " 53 "	15.45
1 " 31 "	39.56	2 " 18 "	26.09	3 " 6 "	19.35	3 " 54 "	15.38
1 " 32 "	39.13	2 " 19 "	25.90	3 " 7 "	19.25	3 " 55 "	15.32
1 " 33 "	38.71	2 " 20 "	25.71	3 " 8 "	19.15	3 " 56 "	15.25
1 " 34 "	38.30	2 " 21 "	25.53	3 " 9 "	19.05	3 " 57 "	15.19
1 " 35 "	37.89	2 " 22 "	25.35	3 " 10 "	18.95	3 " 58 "	15.13
1 " 36 "	37.50	2 " 23 "	25.17	3 " 11 "	18.85	3 " 59 "	15.06
1 " 37 "	37.11	2 " 24 "	25.00	3 " 12 "	18.75	4 " 0 "	15.00
1 " 38 "	36.73	2 " 25 "	24.83	3 " 13 "	18.65	4 " 17 "	14.00
1 " 39 "	36.36	2 " 26 "	24.66	3 " 14 "	18.56	4 " 36 "	13.00
1 " 40 "	36.00	2 " 27 "	24.49	3 " 15 "	18.46	5 " 0 "	12.00
1 " 41 "	35.64	2 " 28 "	24.32	3 " 16 "	18.37	5 " 27 "	11.00
1 " 42 "	35.29	2 " 29 "	24.16	3 " 17 "	18.27	6 " 0 "	10.00
1 " 43 "	34.95	2 " 30 "	24.00	3 " 18 "	18.18	6 " 40 "	9.00
1 " 44 "	34.62	2 " 31 "	23.84	3 " 19 "	18.09	7 " 30 "	8.00
1 " 45 "	34.29	2 " 32 "	23.68	3 " 20 "	18.00	8 " 34 "	7.00
1 " 46 "	33.96	2 " 33 "	23.53	3 " 21 "	17.91	10 " 0 "	6.00
		2 " 34 "	23.38	3 " 22 "	17.82	12 " 0 "	5.00