



# SANTA FE SAFETY FIRST



## AVOID DAMAGE—SWITCH CUSTOMERS' CARS CAREFULLY

Damage to freight or car can be avoided by always keeping coupling speed within the safe range—NOT OVER 4 MILES PER HOUR—A BRISK WALK.

*Handle freight carefully and keep our customers.*

**IT'S EVERYBODY'S JOB ON THE SANTA FE!**

Every employe should promptly report any unsafe condition or practice to his Supervisor.

### LOS ANGELES DIVISION

H. B. LAMPE, Assistant Superintendent . . . . . San Bernardino, Calif.  
 E. J. MULLIGAN, Trainmaster . . . . . Needles, Calif.  
 L. D. JONES, Trainmaster . . . . . Needles, Calif.  
 E. D. MAAG, Road Foreman of Engines . . . . . Needles, Calif.  
 V. V. ANDREAS, Rules Instructor . . . . . Barstow, Calif.  
 M. J. WOOD, Trainmaster . . . . . Barstow, Calif.  
 N. C. ORFALL, Asst. Trainmaster . . . . . Barstow, Calif.  
 G. SEFCIK, Asst. Trainmaster . . . . . Barstow, Calif.  
 M. E. CURTIS, Asst. Trainmaster . . . . . Barstow, Calif.  
 J. A. MC RAE, Asst. Trainmaster . . . . . Barstow, Calif.  
 R. J. STOECKLY, Asst. Trainmaster . . . . . Barstow, Calif.  
 H. C. HENRY, Road Foreman of Engines . . . . . Barstow, Calif.  
 C. E. TRESSLER, Safety Supervisor . . . . . Barstow, Calif.  
 J. L. SCHROEDER, Trainmaster . . . . . San Bernardino, Calif.  
 K. W. JURE, Trainmaster . . . . . San Bernardino, Calif.  
 S. F. CROOK, Asst. Trainmaster . . . . . San Bernardino, Calif.  
 W. N. LEAVERTON, Asst. Trainmaster . . . . . San Bernardino, Calif.  
 J. P. HERNDON, Road Foreman of Engines . . . . . San Bernardino, Calif.  
 E. R. CHAPMAN, Safety Supervisor . . . . . San Bernardino, Calif.  
 D. L. REYNOLDS, Trainmaster . . . . . Fullerton, Calif.  
 J. R. FRAIZER, Asst. Trainmaster . . . . . Fullerton, Calif.  
 W. L. TYLER, Asst. Trainmaster-Mgr. RFO . . . . . San Diego, Calif.

### LOS ANGELES TERMINAL DIVISION

W. E. ADAMS, Trainmaster . . . . . Los Angeles, Calif.  
 J. D. LUSK, Trainmaster . . . . . Los Angeles, Calif.  
 R. D. MATHES, Trainmaster . . . . . Los Angeles, Calif.  
 H. S. DUKE, Asst. Trainmaster . . . . . Los Angeles, Calif.  
 J. S. BLACK, Asst. Trainmaster . . . . . Los Angeles, Calif.  
 R. R. MARTIN, Safety Supervisor . . . . . Los Angeles, Calif.  
 R.M. BLOOMER, Road Foreman of Engines . . . . . Los Angeles, Calif.  
 R.D. HARPER, Trainmaster . . . . . Watson, Calif.

### COAST LINES

J. E. THORNTON, Supervisor of Air Brakes and General Road Foreman of Engines . . . . . Los Angeles, Calif.  
 A. C. HENDERSON, Road Foreman of Engines (AMTRAK) . . . . . Los Angeles, Calif.

### CHIEF TRAIN DISPATCHER'S OFFICE SAN BERNARDINO

D. F. HODGES, Chief Dispatcher

### ASST. CHIEF DISPATCHERS

G. A. WOLLERTON - E.M. BUTLER  
T. H. ESHELMAN - D. R. MUNDAY

### TRAIN DISPATCHERS

L. A. WRIGHT	T. A. HUGHES	J. X. JUSZCZYK
H. F. BROWN	R. N. BROWNING	C. Q. PATTERSON
D. E. PRYOR	D. L. DAVIES	G. W. DRIPPS
J. M. BIERD	G. W. BUXTON	E. B. JACKSON JR.
D. K. YOUNG	J. L. REDDICK	R. E. BRENDZA
J. M. TIDEMANN	S. G. HUMPHREYS	

# The Atchison, Topeka and Santa Fe Railway Co.



## LOS ANGELES AND LOS ANGELES TERMINAL DIVISIONS

# TIME TABLE No.

# 14

IN EFFECT

## Sunday, Oct. 31, 1982

At 12:01 A.M.

Pacific Standard Time

This Time Table is for the exclusive use and guidance of Employes.

Q. W. TORPIN  
General Manager  
LOS ANGELES, CALIF.

D. M. MILLER    W. W. TOLIVER    R. T. DENNISON  
Asst. General Managers  
LOS ANGELES, CALIF.

D. D. DIDIER  
Superintendent  
SAN BERNARDINO, CALIF.

J. L. FIELDS  
Superintendent  
LOS ANGELES, CALIF.

H. D. ROBERTSON  
Terminal Superintendent  
BARSTOW, CALIF.

## 2 NEEDLES, CADIZ AND RIPLEY DISTRICTS

## LOS ANGELES DIVISION

### MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS

Location	NEEDLES DISTRICT SOUTH TRACK	Psgr.	Frght.
Barstow to Pisgah	90	60	
Pisgah to Bagdad	79	60	
Bagdad to M.P. 646.1	90	60	
M.P. 646.1 to Goffs	79	60	
Goffs to Needles	79	50	

SPEED RESTRICTIONS			
3 Curves M.P. 747.0 to 745.0	50	50	
5 Curves M.P. 745.0 to 739.7	75	60	
Curve M.P. 711.6 to 710.6	80	60	
4 Curves M.P. 710.6 to 708.2	65	60	
Curve M.P. 708.2 to 707.8	60	60	
Curve M.P. 702.0 to 701.5	55	55	
Curve M.P. 701.5 to 700.4	65	60	
6 Curves M.P. 700.4 to 696.2	70	60	
2 Curves M.P. 696.2 to 694.9	55	55	
4 Curves M.P. 694.9 to 693.6	45	45	
Curve M.P. 693.6 to 692.8	65	60	
2 Curves M.P. 692.8 to 689.5	75	60	
2 Curves M.P. 689.5 to 688.4	55	55	
3 Curves and Grade M.P. 688.4 to 685.8	65	60	
Curve and Grade M.P. 685.8 to 683.4	70	45	
2 Curves & Grade M.P. 683.4 to 680.7X	45	45	
2 Curves & Grade M.P. 680.7X to 677.8	60	45	
10 Curves & Grade M.P. 677.8 to 671.4	65	45	
Curve M.P. 656.0 to 655.7	80	60	
5 Curves M.P. 646.1 to 642.4	70	60	
Curve M.P. 639.2 to 638.8	75	60	
3 Curves M.P. 631.0 to 628.7	75	60	
6 Curves M.P. 625.5 to 618.9	65	60	
5 Curves M.P. 618.9 to 612.2	70	60	
4 Curves M.P. 612.2 to 609.1	65	60	
2 Curves M.P. 609.1 to 608.3	60	50	
6 Curves M.P. 601.4 to 597.8	60	50	
5 Curves M.P. 597.8 to 590.2	70	50	
Curve M.P. 590.2 to 589.3	65	50	
5 Curves M.P. 589.3 to 587.2	45	45	
14 Curves M.P. 587.2 to 578.8	50	50	
Curve M.P. 578.8 to 578.1	45	45	
"H" Street Crossing M.P. 578.1	15	15	

WESTWARD		Capacity of Sidings in Feet	Ruling Grade Descending— Feet Per Mile	TIME TABLE		Mile Post	Ruling Grade Descending— Feet Per Mile	Capacity of Sidings in Feet	EASTWARD	
FIRST CLASS				NO. 14					FIRST CLASS	
35	3			Oct. 31, 1982					4	36
Leave Daily	Leave Daily	Yard		STATIONS				Arrive Daily	Arrive Daily	
	AM 12:20		0.0	NEEDLES	YL	578.0			AM 2:00	
	12:30	5317	0.0	No. 7.5—So. 7.4			79.2		1:39	
	12:38	7329	0.0	JAVA		586.6	79.2			
	12:45	5418	0.0	IBIS		592.4	104.5			
	12:51	6716	0.0	No. 5.4—So. 4.6		597.0	73.9			
	1:02	7318	21.1	BANNOCK		601.5	73.9			
	1:09		59.1	HOMER		609.1	0.0	7254	1:22	
			57.0	GOFFS		618.7	0.0			
			57.0	FENNER		626.2	0.0	5369	1:05	
	1:20	5383	52.8	ESSEX		634.7	0.0	5841	12:58	
	1:30	7328	53.8	DANBY		648.1	0.0	9292	12:46	
	1:39	5296	11.6	CADIZ		661.5	29.0	5406	12:36	
	1:45		0.0	AMBOY		669.3	35.9	5022	12:30	
	1:53	6746	0.0	BAGDAD		676.7	75.0			
	2:07	5414	54.4	SIBERIA		686.7	121.4	7113	12:14	
	2:29	6605	55.4	No. 9.5—So. 7.7		706.6	57.0	6682	AM 11:57	
	2:45	7352	13.7	ASH HILL		726.6	16.4	5363	11:42	
	2:55		48.3	PISGAH		737.6	40.6		11:33	
PM 12:25	3:20	Yard		NEWBERRY		746.4	31.7		PM 4:15	
PM 12:35	AM			DAGGETT					11:24 PM	
PM 12:35	AM			BARSTOW					4:05 PM	
Arrive Daily (52.8)	Arrive Daily (56.2)			NORTH (168.7) (166.0) SOUTH				Yard	Leave Daily (63.8)	Leave Daily (52.8)

Average speed per hour

### NEEDLES DISTRICT NORTH TRACK

Needles to Goffs	79	60
Goffs to Bagdad	90	60
Bagdad to Pisgah	79	60
Pisgah to Barstow	90	60

SPEED RESTRICTIONS		MPH
"H" Street Crossing M.P. 578.1	15	
Needles Freight Lead M.P. 578.4 to 580.3	30	
12 Curves M.P. 578.1 to 584.2	45	
6 Curves M.P. 584.2 to 587.2	50	
2 Curves M.P. 587.2 to 588.0	40	
3 Curves M.P. 588.0 to 589.3	45	
3 Curves M.P. 589.3 to 593.3	55	
Curve M.P. 593.3 to 593.8	35	
7 Curves M.P. 593.8 to 599.1	55	
4 Curves M.P. 599.1 to 603.3	60	
2 Curves M.P. 608.3 to 609.1	65	
Curve M.P. 609.1 to 610.3	80	
6 Curves M.P. 610.3 to 614.6	85	
2 Curves M.P. 618.9 to 620.4	80	
3 Curves M.P. 623.2 to 625.5	80	
2 Curves M.P. 629.9 to 631.0	80	
Curve M.P. 638.8 to 639.2	80	
5 Curves M.P. 642.4 to 646.0	80	
Curve M.P. 655.7 to 656.0	85	
Curve M.P. 670.5 to 671.5	70	
11 Curves M.P. 671.5 to 678.1	50	
3 Curves M.P. 678.1 to 680.3	35	
3 Curves M.P. 680.3 to 682.7	50	
2 Curves M.P. 682.7 to 683.5	45	
2 Curves M.P. 683.5 to 686.2	50	
2 Curves M.P. 686.2 to 688.4	70	
2 Curves M.P. 688.4 to 689.5	55	
2 Curves M.P. 689.5 to 692.9	75	
Curve M.P. 692.9 to 693.7	65	
4 Curves M.P. 693.7 to 695.0	40	
10 Curves M.P. 695.0 to 702.0	55	
4 Curves M.P. 707.8 to 710.4	65	
2 Curves M.P. 710.4 to 711.6	80	
5 Curves M.P. 739.7 to 745.0	75	
4 Curves M.P. 745.0 to 747.0	50	

\* Denotes restrictions protected by Inert ATS Inductors

### Cadiz District MPH

Cadiz District	49
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SPEED RESTRICTIONS		MPH
Bridge & Curve M.P. 106.8 to 107.3	30	
Track M.P. 107.3 to 118.9	40	
Curve M.P. 165.2 to 165.6	40	
Curve M.P. 183.0 to 183.2	40	
Curve M.P. 190.0 to 190.3	10	

### Ripley District MPH

Rice to Blythe	40
Blythe to Ripley	20
Riverview Farms Spur	15

SPEED RESTRICTIONS		MPH
4 Curves M.P. 0.0 to 1.0	15	
M.P. 1.0 to 6.0	30	
3 Curves M.P. 14.6 to 15.2	25	
4 Curves M.P. 15.6 to 16.4	20	
4 Curves M.P. 16.7 to 17.7	30	
5 Curves M.P. 34.6 to 36.4	30	

### SWITCHES—MAXIMUM AUTHORIZED SPEED

Maximum speed permitted through turnout of other than main track switches —10 MPH; all main track turnouts and crossovers—15 MPH; except for interlocked switches and crossovers at following locations:

Station	Location	MPH
Needles	M.P. 578.4 crossover main track to freight lead	30
	M.P. 580.3 crossover main tracks	50
Daggett	West end freight lead	50
	Two main track crossovers	50
Barstow	Turnout to Union Pacific main track	20
	M.P. 743.6 two main track crossovers	50
	M.P. 743.6 auxiliary yard entry	50
	M.P. 745.7 EE Passenger Siding	20
	M.P. 745.8 Crossover	50
	M.P. 745.9 Yard Entry	50
	M.P. 746.8 WE Passenger Siding	20
	Crossover M.P. 746.8	50
	Departure Yard Lead M.P. 746.8	50
	Inspection Yard Lead M.P. 746.9	50
	Inspection Yard Lead M.P. 748.9	50
	North Departure Yard Lead M.P. 749.0	50
South Departure Yard Lead M.P. 749.1	50	
2 Crossovers M.P. 749.2	50	
Mojave District Jct. M.P. 749A.0	50	
Mojave District Receiving Yard Lead M.P. 749A.9	30	
First District Receiving Yard Lead M.P. 4.3	30	

(Continued on Page 3)

# LOS ANGELES DIVISION

# NEEDLES, CADIZ AND RIPLEY DISTRICTS 3

## BARSTOW YARD

Maximum Speed Through Following Power Switches:

EE and WE Inspection Yard Tracks 1102 and 1103 (Interlocked)	50
Jct. of High and Low Leads on Yard Entry Track from Needles	30
Crossovers Between First and Mojave Dist. Yard Entry Tracks	30
EE and WE All Receiving Yard Tracks	30
EE Departure Yard Tracks 1201 through 1205	30
WE All Departure Yard Tracks	30
EE Departure Yard Tracks 1206 through 1210	15
Maximum Speed on Balloon Track	10

Spring Switches at West end North track sidings 15 MPH  
Java, Ibis, Bannock, Homer, Goffs, Danby, Cadiz, Amboy, Siberia, Ash Hill, Pisgah, Newberry, Daggett

Spring Switches at East end South track sidings 15 MPH  
Newberry, Pisgah, Ash Hill, Bagdad, Amboy, Cadiz, Danby, Essex, Goffs

Trains must get clearance card before leaving Needles.  
Santa Fe trains must get clearance card before leaving Barstow.

Rule 251 in effect between Needles and M.P. 737.3.

TCS in effect: On main tracks between M.P. 737.3 and Barstow.

Rule 6(B): Needles & Barstow C-R-Y, Cadiz & Ash Hill B-Y, other sidings B

Rule 93: Yard limits located at Needles.

Rule 311: At Barstow, a signal displaying a flashing yellow over lunar aspect is named "APPROACH-THIRTY" and the indication is, "Proceed; approach next signal not exceeding 30 MPH prepared to enter diverging route at prescribed speed; if exceeding medium speed, immediately reduce to medium speed."

Helper locomotives at or near rear of train may use dynamic brake as follows:

Goffs to Cadiz; Ash Hill to Bagdad; Pisgah to Hector; Goffs to Needles.

## CADIZ DISTRICT

WESTWARD	TIME TABLE						EASTWARD	
↓	Ruling Grade Descending—Feet Per Mile	NO. 14		Mile Post	Ruling Grade Descending—Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	↑
		Oct. 31, 1982						
STATIONS								
		<b>PARKER</b>	YL	105.8		C-R-Y	Yard	
	29.6	14.2			31.7			
	21.1	<b>VIDAL</b>		120.0	30.6	B	880	
		20.4						
		<b>RICE</b>	YL	140.4		B-Y	2471	
	26.3	3.6			0.0			
	30.6	<b>FREDA</b>		144.0	0.0		2100	
		7.0						
	31.7	<b>SABLON</b>		151.0	29.6		2846	
		18.2						
	31.7	<b>FISHEL</b>		169.2	29.6		4949	
		21.3						
		<b>CADIZ</b>	YL	190.5		B-Y	Yard	
(84.7)								

Trains must get clearance card before leaving Parker.

Rule 93: Yard limits located at Cadiz (Cadiz District only), Rice and Earp to Parker, inclusive.

Rule 83(B): Train registers located in phone booth at Rice and Cadiz where trains will register as directed.

## RIPLEY DISTRICT

WESTWARD	TIME TABLE						EASTWARD	
↓	Ruling Grade Descending—Feet Per Mile	NO. 14		Mile Post	Ruling Grade Descending—Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	↑
		Oct. 31, 1982						
STATIONS								
		<b>RIPLEY</b>	YL	49.4				
	42.8	7.4			21.7			
	10.6	<b>BLYTHE</b>	YL	42.0	83.4	C-R-Y	Yard	
		25.5						
	88.4	<b>STYX</b>		18.5	65.0		526	
		18.5						
		<b>RICE</b>	YL	0.0		B-Y	2471	
(49.4)								

Rule 93: Yard limits Ripley to M.P. 41, inclusive, and at Rice.

## TRACK SIDE WARNING DEVICES—SPECIAL RULE 7

### Needles District

Location	Type	Locator & Signals Affected
Bridge 587.9	Highwater	Signals 5871 and 5902
M.P. 607.5	Hot Box and Dragging Equip.	Rotating white lights and radio communications at scanner
North track		
M.P. 611.3	Hot Box and Dragging Equip.	Rotating white lights and radio communications at scanner
South track		
M.P. 628.1	Hot Box	Rotating white lights at scanner, at M.P. 627 and at locator (M.P. 626.3)
South track		
M.P. 631.3	Hot Box	Rotating white lights at scanner and at locator (M.P. 633.5)
North track		
Bridge 642.9	Highwater	Signals 6421 and 6442
M.P. 644.5	Hot Box and Dragging Equip.	Rotating white lights at scanner, At M.P. 646.5 and locator (M.P. 648.1)
North track		
M.P. 651.6	Hot box and Dragging Equip.	Rotating white lights at scanner and at locator (M.P. 648.9)
South track		
M.P. 665	Hot Box and Dragging Equip.	Rotating white lights at scanner and at locator (M.P. 662.5)
South track		
M.P. 665	Hot Box	Rotating white lights at scanner and at locator (M.P. 667)
North track		
M.P. 690.4 (Both tracks)	Hot Box and Dragging Equip.	Rotating white lights and radio communications at scanner
M.P. 709.1	Hot Box and Dragging Equip.	Rotating white lights at scanner and at locator (M.P. 711.8)
North track		
M.P. 716.4	Hot box and Dragging Equip.	Rotating white lights at scanner and at locator (M.P. 714.3)
South track		

### Cadiz District

Bridge 186.6 Highwater Rotating red light on poles located 4 poles west of M.P. 187 and 2 poles west of M.P. 186

### Ripley District

Bridge 10.3 Highwater Rotating red light on poles located 4 poles west of M.P. 10 and 19 poles east of M.P. 10

## STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

### Needles District

Location	Mile Post	Capacity in Feet	Switch Connection
Saltus	658.4	2590	East and West
Klondike	682.0	345	West
Ludlow	693.2	2320	East
Ludlow	693.6	1329	West
Lavic	702.7	235	East
Hector	712.8	480	East and West
Airport Spur	732.6	9048	East
Cool Water	735.9	300	West
Nebo	741.6	5488	East and West

### Cadiz District

Earp	107.3	1236	West
Grommet	131.6	300	East
Milligan	164.0		
Metropolitan Water Dist.	163.9	1711	East and West
Pacific Salt Co.	163.7	212	East and West
Standard Chemical Co.	162.6	988	East and West
Chubbuck	172.7		

### Ripley District

Midland	17.8	308	West
Cax	20.4	933	East
Inca	22.6	1512	East and West
Mesaville	33.0	472	West
Miller Farms	44.7	1450	East and West

Normal position of junction switches  
Rice for Cadiz District, Cadiz for Needles District siding.

## LENGTHS OF STEMS OF WYES

Location	Feet	Location	Feet
Needles	401	Barstow	Mojave District
Cadiz	Cadiz District	Rice	Ripley District
Ash Hill	410	Blythe	504

**4 FIRST DISTRICT**

**LOS ANGELES DIVISION**

**MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS**

First District Westward Movements Both Tracks		
LOCATION	Psg. and Light	MPH Freight
Barstow to San Bernardino	79	60
<b>SPEED RESTRICTIONS</b>		
2 Curves M.P. 746.4 to 747.0	50	50
2 Curves M.P. 747.0 to 4.6	60	60
2 Curves M.P. 10.3 to 11.9	75	60
Curve M.P. 16.7 to 17.2	75	60
Curve M.P. 19.7 to 20.4	75	60
Curve M.P. 30.6 to 31.8	75	60
2 Curves M.P. 31.8 to 33.8	55	55
2 Curves M.P. 33.8 to 34.3	35*	35
3 Curves M.P. 34.3 to 36.6	50	50
Victorville M.P. 36.6 to 37.4	30	30
8 Curves { M.P. 37.4 to 39.1 (North Track)	45	45
{ M.P. 39.1 to 42.0 (South Track)		
2 Curves { M.P. 37.4 to 39.1 (South Track)	40	40
{ M.P. 39.1 to 39.3 (North Track)		
4 Curves M.P. 39.3 to 42.0 (North Track)	45	45
Curve M.P. 42.0 to 43.7	50	50
Curve M.P. 47.2 to 48.1	65	60
Curve M.P. 48.1 to 48.8	55	55
17 Curves M.P. 48.8 to 56.1	50	50
Grade M.P. 56.1 to 56.6	45	45
Grade M.P. 56.6 to 62.2 (South Track)	30*	20
Grade M.P. 56.6 to 64.2X (North Track)	30*	30
Grade M.P. 62.2 to 64.2	40	35
Grade M.P. 64.2 to 66.5	35	35
Grade M.P. 66.5 to 72.6	40	35
Grade M.P. 72.6 to 80.8	50	35
M.P. 80.8 to 81.5	20*	20

\* Denotes restrictions protected by Inert ATS Inductors

Helper locomotives at or near rear of train may use dynamic brakes: Summit to San Bernardino

WESTWARD		Ruling Grade Descending—Feet Per Mile	TIME TABLE		Mile Post	Ruling Grade Descending—Feet Per Mile	Capacity of Sidings in Feet	EASTWARD	
FIRST CLASS			NO. 14					FIRST CLASS	
35	3		Oct. 31, 1982					36	4
Leave Daily	Leave Daily							Arrive Daily	Arrive Daily
PM 12:40	AM 3:30							PM 4:05	PM 11:15
			<b>STATIONS</b>						
		0.0	BARSTOW		746.4		Yard		
		35.9	LENWOOD		6.7	41.0			
		37.0	HODGE		13.8	37.0			
		37.0	EAST ORO GRANDE		29.4	37.0			
		12.7	ORO GRANDE		31.5	37.0	Yard		
		0.0	VICTORVILLE		36.7	37.0	Yard		
		0.0	FROST		38.0	15.8			
		0.0	HESPERIA		45.1	83.4	Yard		
		0.0	LUGO		50.1	81.8			
		116.2	SUMMIT		55.9	84.5			
		116.2	No. 8.9—So. 6.9		62.8	0.0			
		116.2	CAJON		66.8	0.0			
			KEENBROOK		69.4	0.0			
			VERDEMONT		73.9	0.0			
			SAN BERNARDINO		81.3		Yard	2:15 PM	9:17 PM
Arrive Daily (50.2)	Arrive Daily (44.3)		South Track (81.3) North Track (83.3)					Leave Daily (45.4)	Leave Daily (42.4)
Average speed per hour									

Santa Fe trains must get clearance card before leaving San Bernardino and Barstow.

TCS in effect on Main Tracks between Barstow and San Bernardino.  
Rule 301: Between M.P. 749.8 and San Bernardino controlled and block signals located on field side of track.

Rule 311: At Barstow, a signal displaying a flashing yellow over lunar aspect is named "APPROACH-THIRTY" and the indication is, "Proceed; approach next signal not exceeding 30 MPH prepared to enter diverging route at prescribed speed; if exceeding medium speed, immediately reduce to medium speed."

At Summit, westward passenger trains will make air brake test as prescribed Rule 934-1, item 4.

At Summit all freight trains, where stop is not made, must make a running air brake test between MP 55 and MP 56.

If train is stopped at Summit for any reason, an automatic brake application of not less than 10 PSI will be made and not released until ready to proceed.

Rule 6(B) Barstow and San Bernardino C-R-Y Victorville C-R  
Main tracks cross at grade separation M.P. 39.1 and are designated as prescribed by Rule 151 either side of crossing.

**SWITCHES—MAXIMUM AUTHORIZED SPEED**

Maximum speed permitted through turnout of other than main track switches—10 MPH; all main track turnouts and crossovers—15 MPH, except for interlocked switches and crossovers at following locations:

Station	Location	MPH
Barstow	See Needles District Page 2	
Lenwood	Two crossovers	50
Hodge	Two crossovers	50
East Oro Grande	Two crossovers	50
Frost	Two crossovers	50
Lugo	Two crossovers	50
Summit	Two crossovers	50
Cajon	Two crossovers	50
Keenbrook	Two crossovers	50
Verdemont	Two crossovers	50

**RULE 956—Speed restrictions and special instructions governing the use of retainers for westward freight trains, Summit to San Bernardino.**

- Trains with all locomotives on head end, must not exceed an average of 115 tons per car and trains with "RCE" in operation, or, with Helper Locomotives at or near rear of train must not exceed 135 tons per car. Train tonnage excludes weight of locomotives.
- Speed Restrictions:

	OPERATIVE DYNAMIC BRAKES	M P H	EXCEPTIONS:	M P H	WITHOUT OPERATIVE DYNAMIC BRAKES	M P H	"RCE" OR HELPER OPERATION WITH DYNAMIC BRAKES	M P H
SOUTH TRACK M. P. 56.6 TO CAJON	Average Tonnage Does Not Exceed 115 Tons Per Car	15	Average Tonnage Does Not Exceed 95 Tons Per Car and Train Tonnage Does Not Exceed 4500 Tons	20	Not To Exceed An Average of 85 Tons Per Car	15	Average Tonnage Does Not Exceed 135 Tons Per Car	15
							Average Tonnage Does Not Exceed 95 Tons Per Car and Train Tonnage Does Not Exceed 4500 Tons	20
NORTH TRACK M.P. 56.6 TO CAJON AND EITHER TRACK CAJON TO SAN BERNARDINO	Average Tonnage Does Not Exceed 115 Tons Per Car	20	Average Tonnage Does Not Exceed 95 Tons Per Car and Train Tonnage Does Not Exceed 6500 Tons	30	Not To Exceed An Average of 95 Tons Per Car	15	Average Tonnage Does Not Exceed 135 Tons Per Car	20
							Train Tonnage Between 6500 Tons and 12000 Tons	25
							Train Tonnage Does Not Exceed 6500 Tons	30

**NOTE:** Either Track Cajon to San Bernardino, when average tonnage does not exceed 95 tons per car and train tonnage does not exceed 4500 tons and speed controlled only with dynamic brakes 35 MPH, if air brakes used to control speed of train 30 MPH.

- When it is known before leaving Summit that locomotives do not have operative dynamic brakes, train must stop. Before releasing train brakes, starting behind lead locomotives, set 15 retainers in high pressure position, release train brakes. Then place head one-half of train's retainers in high pressure and remainder of retainers in low pressure position. Brake system must be fully charged before proceeding. Excessive use of engine brakes is prohibited. If retainers are positioned before reaching Cajon, a 10 minute cooling stop must be made at Verdemont.  
If train averages over 85 tons per car on South track Summit to Cajon, or, over 95 tons per car on North track Summit to Cajon or either track Cajon to San Bernardino, before proceeding, locomotives must have 2 or more operative dynamic brakes.
- With operative dynamic brakes and brake pipe reduction exceeds 18 lbs. to maintain authorized speed, train must be stopped immediately. To control train speed, a sufficient number of retainers, starting behind lead locomotives, must be set in high pressure position, before releasing train brakes.  
Before proceeding, brake system must be fully charged.
- At any time a train stops and it is necessary to hold train while the brake system is being recharged, starting behind lead locomotive, set a sufficient number of hand brakes. Before proceeding, hand brakes must be released.
- When retainers are used, not less than 20 retainers must be set in high pressure position. Trains operating with retainers, must stop East of control signal Fifth Street and turn down retainers before proceeding.
- Speed of trains must not be controlled exclusively with dynamic brakes and locomotive brakes, when train tonnage exceeds: 2500 Tons on South Track Summit to Cajon; 3500 Tons on North Track Summit to Cajon and 4500 Tons on Either Track Cajon to San Bernardino.

# LOS ANGELES DIVISION

# FIRST, LUCERNE VALLEY AND REDLANDS DISTRICTS 5

## MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS First District Eastward Movements Both Tracks

LOCATION	Psg.	Freight	MPH
San Bernardino to Barstow	79		60

SPEED RESTRICTIONS	MPH
Curve M.P. 81.5 to 80.8	20
Curve M.P. 79.5 to 79.3	55
Curve M.P. 79.3 to 78.3	60
2 Curves M.P. 72.6 to 71.5	45
2 Curves M.P. 71.5 to 70.8	40
8 Curves M.P. 70.8 to 66.5	45
6 Curves M.P. 66.5 to 64.2	35
3 Curves M.P. 64.2 to 62.2	45
16 Curves M.P. 62.2 to 56.6 (South Track)	30
Curve M.P. 56.6 to 56.1 (South Track)	45
5 Curves M.P. 64.2X to 61.7X (North Track)	35
12 Curves M.P. 61.7X to 57.4X (North Track)	30
Curve M.P. 57.4X to 57.0X (North Track)	40
Curve M.P. 57.0X to 56.1 (North Track)	45
17 Curves M.P. 56.1 to 48.8	50
Curve M.P. 48.8 to 48.1	55
Curve M.P. 48.1 to 47.2	65
Curve M.P. 43.7 to 42.0	50
8 Curves { M.P. 42.0 to 39.1 (South Track) } { M.P. 39.1 to 37.4 (North Track) }	45
4 Curves { M.P. 42.0 to 39.3 (North Track) } { M.P. 39.3 to 39.1 (North Track) } { M.P. 39.1 to 37.4 (South Track) }	45
2 Curves { M.P. 39.3 to 39.1 (North Track) } { M.P. 39.1 to 37.4 (South Track) }	40*
Victorville M.P. 37.4 to 36.6	30
3 Curves M.P. 36.6 to 34.3	50
2 Curves M.P. 34.3 to 33.8	35
2 Curves M.P. 33.8 to 31.8	55
Curve M.P. 31.8 to 30.6	75
Curve M.P. 20.4 to 19.7	75
Curve M.P. 17.2 to 16.7	75
2 Curves M.P. 11.9 to 10.3	75
2 Curves M.P. 4.6 to 747.0	60
2 Curves M.P. 747.0 to 746.4	50

\*Denotes restrictions protected by Inert ATS Inductors

Helper locomotives at or near rear of train may use dynamic brake:  
Summit to Victorville

REDLANDS DISTRICT	MPH
SPEED RESTRICTIONS	
Crossings M.P. 0.0 to 0.7	5
Crossings M.P. 0.7 to 3.1	15
Redlands, St. Crossings M.P. 8.9 to 9.4	15
Mentone, St. Crossing and Track M.P. 12.0 to 13.4	10

LUCERNE VALLEY DISTRICT	MPH
Hesperia to M.P. 25.2	35
M.P. 25.2 to 29.2	20

### STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

First District			
Location	Mile Post	Capacity in Feet	Switch Connection
Helendale	21.1	1051	East and West (North Track)
Helendale	21.1	1050	East and West (South Track)
Thorn	41.1	2995	East and West (North Track)
Summit	54.4	3500	East (North Track)
	55.7	192	East and West (North Track)
	55.7	201	East and West (South Track)
Alray	59.7X	920	East (North Track)
Devore	71.0	1600	East and West (South Track)
Ono	75.0	1960	East (North Track)

REDLANDS DISTRICT			
Location	Mile Post	Capacity in Feet	Switch Connection
Nevada Street	6.7	750	East and West
Craf	11.4	188	East

LUCERNE VALLEY DISTRICT			
Location	Mile Post	Capacity in Feet	Switch Connection
Pluess-Stauffer, Inc.	23.5	884	East and West
Chas. Pfizer and Co. Inc.	26.2	1300	West

## REDLANDS DISTRICT

WESTWARD	TIME TABLE					EASTWARD
↓	NO. 14					↑
	Oct. 31, 1982					
↓	STATIONS					↑
		END OF TRACK YL	13.4			
	0.0	MENTONE YL	12.0	84.6	790	
	116.2	REDLANDS YL	8.8	0.0		
	116.2	S. P. Crossing SAN BERNARDINO YL	0.0	79.2	C-R-Y Yard	
	(13.4)					

Rule 93: Yard limits M.P. 13.4 to San Bernardino, inclusive.

Normal position of junction switches San Bernardino for First District.

## LUCERNE VALLEY DISTRICT

WESTWARD	TIME TABLE					EASTWARD
↓	NO. 14					↑
	Oct. 31, 1982					
↓	STATIONS					↑
		CUSHENBURY	29.2		B 2900	
	105.6	SPUR 5	26.1	0.0	700	
	105.6	BASS	15.6	0.0	760	
	75.0	SPUR 2	11.3	75.0	122	
	75.0	SPUR 1	7.0	0.0	114	
	75.0	HESPERIA YL	0.0	75.0	B	
		(29.0)				

Rule 93: Yard limits at Hesperia.

Normal position of junction switches Hesperia for First District Yard Track.

### SWITCHES—MAXIMUM AUTHORIZED SPEED REDLANDS AND LUCERNE VALLEY DISTRICTS

Maximum speed permitted through turnout of other than main track switches—10 MPH; all main track turnouts and crossovers—15 MPH.

### TRACK SIDE WARNING DEVICES—SPECIAL RULE 7

First District		
Location	Type	Locator & Signals Affected
M.P. 24.9 Westward Movements	Hot Box and Dragging Equip.	Rotating white lights at scanner, at M.P. 27.1 and at locator (M.P. 28.5)
M.P. 24.9 Eastward Movements	Hot Box and Dragging Equip.	Rotating white lights at scanner, at M.P. 23.5 and at locator (M.P. 21.4)

### RAILROAD CROSSINGS AT GRADE (REDLANDS DIST.)

Location	Tracks Governed	Type
South "E" Street	S.P. Crossing	98-B, 98-C

**6 SECOND DISTRICT**

**LOS ANGELES DIVISION**

WESTWARD		Rating Grade Descending— Feet Per Mile	TIME TABLE		Mile Post	Rating Grade Descending— Feet Per Mile	Capacity of Sidings In Feet	EASTWARD	
FIRST CLASS			NO 14					FIRST CLASS	
35	3		Oct. 31, 1982					36	4
Leave Daily	Leave Daily	STATIONS		Arrive Daily	Arrive Daily				
PM 2:20	AM 5:25	0.0	SAN BERNARDINO YL	81.3	64.9	Yard	PM 2:12	PM 9:14	
2:27	5:32	38.7	3.6	RIALTO YL	84.9	1935	1:56	8:59	
2:32	5:38	37.7	6.9	KAISER YL	91.8	14.3	1:51	8:54	
2:37	5:44	32.0	1.9	ETIWANDA YL	93.7	14.3	1:46	8:49	
2:40	5:48	19.3	4.0	CUOAMONGA YL	97.7	66.4	1:43	8:46	
2:44	5:53	42.2	3.2	UPLAND YL	100.9	2363	1:39	8:42	
2:52	6:00	59.1	3.9	CLAREMONT YL	104.8	3079	1:37	8:40	
		68.4	1.9	POMONA	106.7	0.0			
		68.4	3.5	SAN DIMAS	110.2	0.0			
3:01	6:10	68.4	4.2	GLENDORA	114.4	2820	1:24	8:27	
3:04	6:13	76.0	2.5	AZUSA	116.9	0.0	1:21	8:25	
3:06	6:16	81.3	1.3	IRWINDALE	118.2	39.8	1:19	8:23	
		60.7	2.0	BUTLER	120.2	0.0	2740		
3:10	6:20	26.4	2.2	MONROVIA	122.4	26.4	1:15	8:19	
		0.0	1.8	ARCADIA	124.2	75.0			
3:15	6:27	95.0	3.1	CHAPMAN	127.3	75.2	1800	1:10	
3:23	6:45	114.6	4.4	PASADENA	131.7	78.1	1702	1:05	
		88.7	2.0	SOUTH PASADENA	133.7	0.0		8:10	
3:27	6:51	106.9	0.5	OLGA	134.2	0.0	1698	12:57	
		89.8	4.5	WATER STREET YL	138.7	31.7	735	7:57	
		37.0	0.7	BROADWAY	139.4	0.0		12:44	
		19.0	0.6	MISSION TOWER	140.0	0.0			
4:05 PM	7:20 AM		0.8	LOS ANGELES Union Station		0.0	Yard	12:40 PM	
Arrive Daily	Arrive Daily		(59.5)				Leave Daily	Leave Daily	

Trains originating Los Angeles Union Station must get clearance card before leaving Los Angeles Union Station.

Trains originating Hobart or First Street must get clearance card before leaving Mission Tower.

At Los Angeles: Rules and Regulations of Union Station must be observed within terminal limits.

Regular trains must get clearance card before leaving San Bernardino.

Rule 97(A): Extras need not secure clearance card before leaving San Bernardino on Second District. Westward extras that are to operate west of Upland must secure clearance card before leaving Kaiser, or San Bernardino. Extra trains and engines must contact San Bernardino Operator, or Kaiser Operator, to determine that there are no conflicting movements before occupying Second District main track between San Bernardino and Kaiser. Extra trains and engines must, after using Second District main track between San Bernardino and Kaiser, notify San Bernardino Operator, or Kaiser Operator, as soon as main track has been cleared.

TCS in effect:

On Main tracks between Broadway and Mission Tower.

On main tracks at San Bernardino, between interlocked switches 5th St. and M.P. 82.2.

Rule 93: Yard limits located at: San Bernardino M.P. 82.2 to and including Upland, Claremont, and Water Street to Broadway.

Rule 6(B): San Bernardino, Azusa and Mission Tower C-R-Y; Kaiser C-R; Etiwanda B; Cucamonga Y.

(31.0) (31.0)

Average speed per hour

(38.8) (38.0)

**MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS**

LOCATION	Psgr.	MPH	Frt.
<b>Second District</b>			
San Bernardino to Los Angeles .....	65	60	
Rialto, Cucamonga Foothill Spur, Muscat, Metropolitan and Pasadena Industrial Spurs .....	15	15	
<b>SPEED RESTRICTIONS</b>			
M.P. 81.5 to 82.2 .....	20	20	
M.P. 82.2 to 85.2 .....	30*	30	
Fontana M.P. 88.5 to 88.9 .....	50	50	
Upland Euclid Ave. Crossing M.P. 101.0 .....	40	40	
Pomona M.P. 106.2 to 107.0 .....	40	40	
La Verne M.P. 107.0 to 108.0 .....	45	45	
6 Curves M.P. 111.8 to 116.9 .....	55	55	
2 Curves M.P. 118.8 to 119.7 .....	55	55	
2 Curves M.P. 122.2 to 124.8 .....	60	60	
M.P. 124.8 to 131.0 .....	60	40	
M.P. 131.0 to 131.8 .....	20*	20	
M.P. 131.8 to 135.5 .....	30	30	
7 Curves M.P. 135.5 to 138.3 .....	25	25	
4 Curves M.P. 138.3 to 140.0 .....	20	20	
Curve M.P. 140.0 to 140.2 .....	15	15	

\* Denotes restrictions protected by Inert ATS Inductors

**SWITCHES—MAXIMUM AUTHORIZED SPEED**

Trailing movements, spring point derails: MPH  
 Metropolitan Spur, 4068 ft. from main track ..... 10  
 Maximum speed permitted through turnout of other than main track switches  
 —10 MPH; all main track turnouts and crossovers—15MPH; except for interlocked  
 switches and crossovers at following locations:

**Second District**

San Bernardino Crossover between main tracks east of Bridge 82.1. 20  
 Broadway Two track junction switch ..... 20

**LENGTHS OF STEMS OF WYES**

Location	Feet
<b>Second District</b>	
San Bernardino .....	3rd Dist, Main Track
San Bernardino .....	Precooler Lead
Cucamonga .....	Foothill Spur
Azusa .....	147
Mission Tower .....	L.A.U.P.T.

**RAILROAD CROSSINGS AT GRADE**

**Second District**

Location	Tracks Governed	Type
Mission Tower	S.P. & U.P. Crossings	TCS

**STATIONS OR TRACKS NOT SHOWN IN SCHEDULE**

**Second District**

Location	Mile Post	Capacity in Feet	Switch Connection
Rialto Foothill Spur .....	85.8	2200	West
Fontana .....	88.8	700	East and West
Muscat Spur .....	90.4	4685	West
Gallo Spur .....	94.6	2200	East
Rochester .....	95.0	460	East
Cucamonga Foothill Spur .....	95.8	Lgh. 1.1 m.	East and West
La Verne .....	107.9	750	East
Metropolitan Spur .....	108.6	Lgh. 1.0 m.	West
Duarte .....	121.0	764	East and West
Pasadena Industrial Spur .....	127.5	Lgh. 2.1 m.	East
Lamanda Park .....		1772	East and West
Raymond .....	132.7	475	West
Highland Park .....	135.9	250	East

**TRACK SIDE WARNING DEVICES**

**SPECIAL RULE 7**

**Second District**

Location	Type	Signals Affected
Bridge 92.8	Highwater	Signals 921 and 932
Bridge 93.6	Highwater	Signals 923 and 932
Bridge 97.1	Highwater	Signals 971 and 972
M.P. 135	Slide	Signal 1331 & Rotating
Westward	Fence	Red Light at M.P. 135
Movements	Detector	
M.P. 135.3	Slide	Signal 1352 & Rotating
Eastward	Fence	Red Light at M.P. 135.3
Movements	Detector	

WESTWARD								Mile Post	Capacity of Sidings In Feet		
FIRST CLASS											
85	83	81	79	77	75	73	71				
Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Sat. Sun. & *Hol. Only	Leave Daily	Leave Daily	Leave Daily Except Sat. Sun. & *Hol.	Rating Grade Descending - Feet Per Mile			
								52.8	SAN BERNARDINO 2.4	0.0	Yard
								52.8	RANA 1.3	1.8	
								59.8	COLTON S. P. Crossing 1.3	2.9	Yard
								59.8	WEST COLTON 2.5	4.2	
								52.8	HIGHROVE 2.5	6.7	Yard
								14.2	RIVERSIDE JCT. 0.6	9.2	
								52.8	RIVERSIDE 2.4	9.8	Yard
								52.8	CASA BLANCA 2.4	14.0	4905
								52.8	ARLINGTON 3.8	16.4	3095
								52.8	MAY 2.6	20.2	4692
								30.1	PORPHYRY 1.3	22.8	8059
								52.8	CORONA 5.1	24.1	8370
								52.8	PRADO DAM 7.2	29.2	4735
								52.8	ESPERANZA 4.2	36.4	6359
								42.2	ATWOOD 2.4	40.6	
								42.2	PLACENTIA 3.0	43.0	
PM	PM	PM	PM	PM	AM	AM	AM		FULLERTON U. P. Crossing 4.7	166.0	
9.45	7.20	6.05	3.05	1.25	11.15	9.00	7.15	33.3	BUENA PARK 2.0	160.3	
								26.4	LA MIRADA 4.7	157.7	Yard
								17.4	LOS NIETOS S. P. Crossing 0.9	153.0	
								26.9	D. T. JUNCTION S. P. Crossing 1.2	152.1	
								0.0	PICO RIVERA 1.1	150.9	Yard
								0.0	BANDINI 7.5	149.8	
								52.8	EASTERN AVE. 1.3	147.3	
								0.0	HOBART 1.5	146.0	Yard
								11.1	HOBART TOWER U. P. Crossing 1.3	144.5	
								0.0	REDONDO JCT. U. P. Crossing 2.1	143.2	
								0.0	FIRST STREET (70.7) 1.1	141.1	Yard
								10.6	MISSION TOWER S. P. & U. P. Crossings 0.8	140.0	
10.25	8.00	6.45	3.45	2.05	11.55	9.40	7.55		LOS ANGELES Union Station		
PM	PM	PM	PM	PM	AM	AM	AM				
Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Sat. Sun. & *Hol. Only	Arrive Daily	Arrive Daily	Arrive Daily				
(38.7)	(38.7)	(38.7)	(38.7)	(38.7)	(38.7)	(38.7)	(38.7)				

Average speed per hour

Trains originating Los Angeles Union Station must get clearance card before leaving Los Angeles Union Station.  
 Third District trains originating at First Street or Hobart must get clearance card before leaving Hobart. (Exception: Road Switchers which have arrived Hobart from Third District.)  
 Santa Fe trains must get clearance card before leaving San Bernardino.  
 Rule 301: Eastward controlled signal north track at M.P. 0.1 and eastward controlled signal governing movement from Short Way located on left side of track.  
 Rule 6 (B): San Bernardino, Hobart & Mission Tower C-R-Y; Riverside & Fullerton C-R; Pico Rivera R-Y; Redondo Jct R-T-Y; Highgrove B; Casa Blanca, Porphyry, Atwood & La Mirada B-Y.  
 At Los Angeles: Rules and regulations of Union Station must be observed within terminal limits.

TCS in effect on main tracks between San Bernardino and Mission Tower.  
 Trains or engines must secure authority from Towerman at Redondo Junction to occupy Industry Lead (Old Eastward Main Track) between M.P. 143.1 and M.P. 140.2. Towerman at Mission Tower must confer with Towerman at Redondo Junction before allowing train or engine to enter track at west end through interlocked switch.  
 Before entering or fouling this track through hand thrown switch, authority must be obtained from Towerman at Redondo Junction. Towerman at Redondo Junction must be advised when train or engine is clear of track.  
 All trains and engines using Industry Lead between M.P. 143.1 and M.P. 140.2 must move at restricted speed.  
 \* Day of Observance: Washington's Birthday, Memorial Day, Independence Day, Labor Day, and Thanksgiving Day.





MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS

LOCATION	Psg. MPH	Frt.
San Bernardino to Fullerton	60	60
Fullerton to M.P. 158.7	79	60
M.P. 158.7 to Los Angeles	65	60

SPEED RESTRICTIONS	MPH
2 Curves M.P. 0.0X to 0.4X	15
2 Curves and Bridge M.P. 0.0 to 0.9 (Short Way)	15
4 Curves M.P. 0.9 to 1.6 (Short Way)	20
7 Curves and Colton M.P. 0.4X to 3.2	30
2 Curves M.P. 3.2 to 4.0	40
Curve M.P. 6.6 to 6.8	40
2 Curves M.P. 6.8 to 9.6	50
Two Track Junction switch M.P. 10.1	30
2 Curves M.P. 11.8 to 12.5	40
4 Curves M.P. 15.4 to 17.1	50
Corona M.P. 22.5 to 25.6	45
Railroad Avenue Crossing M.P. 25.6	30
Corona M.P. 25.6 to 25.8	45
6 Curves M.P. 31.4 to 34.5	50
Curve M.P. 34.5 to 35.1	45
Two Track Junction Switch M.P. 39.2	40
Placentia M.P. 42.7 to 43.6	50
2 Curves M.P. 45.2 to 45.7	50
Fullerton M.P. 165.2 to 164.7	50
Curve M.P. 163.8 to 163.5	75
Curve M.P. 161.1 to 160.8	65
Curve M.P. 151.7 to 151.4	60
Crossing and Curve M.P. 144.5 to 143.4	30
2 Curves M.P. 143.4 to 142.9	15
3 Curves M.P. 141.1 to 140.2	30
Curve M.P. 140.2 to 140.0	15

SWITCHES—MAXIMUM AUTHORIZED SPEED

Station	Location	MPH
Trailing movements, spring point details:		
	Rana, switching lead	10
Maximum speed permitted through turnout of other than main track switches—10 MPH; all main track turnouts and crossovers—15 MPH; except for interlocked switches and crossovers at following locations:		
Rana	Junction switch and crossover	20
West Colton	Two crossovers	50
Riverside Junction	Union Pacific junction switch when not using crossover	30
Riverside	Two-track junction switch	30
Atwood	Two-track junction switch	40
Fullerton	Olive District junction switch	40
	Fourth District junction switch	40
	Two crossovers M.P. 45.5	50
Buena Park	One crossover M.P. 163.0	50
	One crossover	50
La Mirada	One crossover	50
D. T. Jct.	Two crossovers	50
Bandini	Two crossovers	50
Eastern Ave.	Main track crossovers and lead switch	40
Hobart	Main track crossover	30
Hobart Tower	Crossover north main track to setout track	30
	Two crossovers	30

STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

Location	Mile Posts	Capacity in Feet	Switch Connection
Prenda Spur (Prenda)	14.3	300	East and West
La Sierra	18.5	440	West
Porphyry (3-M Spur)	22.7	Lgh 3.5m	Wye
Wilshire	156.8	2900	East and West
Stephens	155.5	7530	East and West
Santa Fe Springs	154.1	4250	East and West

RAILROAD CROSSINGS AT GRADE

Location	Tracks Governed	Type
Colton	S.P. Crossing	TCS
Fullerton	U.P. Crossing	TCS
Los Nietos	S.P. Crossing	TCS
D.T. Junction	S.P. Crossing	TCS
Hobart Tower	U.P. Crossing	TCS
Redondo Junction	U.P. Crossing	TCS
Mission Tower	S.P. and U.P. Crossings	TCS.

TRACK SIDE WARNING DEVICES

SPECIAL RULE 7

Location	Type	Locator and Signals Affected
Bridge 4.6	Highwater	Eastward Automatic Signals 52 and 54 Westward controlled signals east end Bridge.
Bridge 23.5	Highwater	Westward controlled signal at EE Porphyry Eastward controlled signal at WE Porphyry
Bridge 24.9	Highwater	Signal 241 westward movements on main track Controlled signal eastward movements at WE Corona Westward controlled signal governing movements into EE Corona siding.
M.P. 32 Westward	Hot Box	Rotating light at scanner, at M.P. 33.5 and at locator M.P. 35.1
M.P. 32 Eastward	Hot Box	Rotating light at scanner, at M.P. 30.7 and at locator M.P. 29.6

LENGTHS OF STEMS OF WYES

San Bernardino	3rd Dist. Main Track
San Bernardino	Precooler Lead
Casa Blanca	300 feet
Porphyry	3.5 m.
Atwood	600 feet
La Mirada	A Lead CLIC 6350
Pico Rivera	864 feet
Hobart	U.P. Main Track
Redondo Junction	Harbor Dist. Main Track
Mission Tower	L.A.U.P.T.

No. 71, No. 73, No. 75, No. 77, and extra trains originating must get clearance card before leaving San Diego or 22nd Street.

Rule 151: Between Old Town and crossover at west end of 22nd Street M.P. 268.7 trains will keep to left.

Rule 251 in effect between Old Town and San Diego.

TCS in effect Main track, end of double track Old Town to Fullerton and on sidings Ponto, Serra and Orange.

Rule 301: Signal governing westward movement on main track at west end of siding Serra and signal governing eastward movement from siding to main track at east end of siding Serra located on left side of track.

Rule 93: Yard limits located end of double track Old Town to and including National City.

Rule 94 in effect at San Diego passenger yard between crossover, Cedar Street and Broadway.

Rule 6(B): 22nd Street & Fullerton C-R; National City, San Diego, Miramar, Escondido Jct., Fallbrook Jct., Irvine & Orange Y; Oceanside B.

**MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS**

Fourth District			
LOCATION	Psg.	Fr.	MPH
National City to Sorrento	79	60	60
Sorrento to Santa Ana	90	60	60
South Main Track, M.P. 179.1 to 176.7	40	40	40
Santa Ana to Fullerton	79	60	60

**SPEED RESTRICTIONS**

San Diego M.P. 273.0 to 267.3	20	20
San Diego M.P. 269.4 (Crosby Street)	10	10
San Diego M.P. 267.3 to 264.1	30	30
Curve M.P. 262.7 to 262.4	70	60
2 Curves M.P. 260.3 to 259.9	60	60
Curve M.P. 259.1 to 258.5	65	60
3 Curves M.P. 258.5 to 257.9	35*	35
2 Curves M.P. 257.9 to 256.6	65	55
4 Curves M.P. 255.4 to 253.5	65	55
2 Curves M.P. 253.5 to 252.8	35	35
10 Curves & Grade M.P. 252.8 to 251.0	25*	25
2 Curves & Grade M.P. 251.0 to 250.6	40	40
2 Curves M.P. 250.6 to 250.0	50	50
Curve M.P. 245.8 to 245.6	55*	50
Curve M.P. 244.6 to 244.4	75	60
Curve M.P. 244.4 to 244.1	50*	45
Curve M.P. 244.1 to 243.5	65	60
Crossing M.P. 241.8 (Lomas Santa Fe Dr.)	70	60
2 Curves M.P. 238.8 to 237.4	80	60
4 Crossings M.P. 226.8 to 225.9	30	30
Curve M.P. 225.9 to 225.5	50	45
3 Curves M.P. 224.7 to 223.8	75	60
4 Curves M.P. 209.0 to 206.3	75	60
City San Clemente M.P. 206.3 to 202.7	40	40
Crossing M.P. 201.0 (Beach Rd.)	75	60
Curve M.P. 200.3 to 199.9	45*	40
Curve M.P. 199.9 to 198.6	60	60
3 Curves M.P. 198.6 to 197.9	35*	35
2 Curves M.P. 197.9 to 197.0	60	60
Santa Ana 2 Curves M.P. 176.1 to 175.3	40*	40
4 Crossings M.P. 175.3 to 173.8	60	60
6 Curves M.P. 173.8 to 172.2	40	40
Curve M.P. 172.2 to 172.0	35*	35
6 Crossings M.P. 172.0 to 169.2	45	45
2 Crossings M.P. 169.2 to 168.0	60	60
2 Crossings M.P. 168.0 to 167.7	40	40
Curve M.P. 165.9 to 165.4	40	40

\* Denotes restrictions protected by Inert ATS Inductors

Escondido District		MPH
ESCONDIDO DISTRICT		30

**SPEED RESTRICTIONS**

Hill St. & 17 Curves & track M.P. 0.3 to 7.1	15
9 Curves & track M.P. 9.0 to 14.8	20
6 Curves M.P. 17.9 to 19.5	25
M.P. 19.5 to 21.1	20

**Olive District**

OLIVE DISTRICT	40
1 Curve M.P. 0.0 to 0.8	25

**SWITCHES—MAXIMUM AUTHORIZED SPEED**

Maximum speed permitted through turnout of other than main track switches—10 MPH; all main track turnouts and crossovers—15 MPH; except interlocked switches and crossovers at following locations:

Station	Location	MPH	
Fullerton	Fourth Dist. junction switch—M.P. 165.4	40	
	Orange	WE siding	30
	EE siding (main track)	40	
Irvine	EE two tracks—M.P. 179.1	40	
Serra	EE and WE of Siding	40	
Ponto	EE and WE of siding	40	
Miramar	WE two main tracks—M.P. 252.9	30	
Elvira	EE two main tracks—M.P. 257.9	40	
Old Town	Two-track junction switch	30	
<b>Olive District</b>			
Atwood	Junction switch	40	

**RAILROAD CROSSINGS AT GRADE**

Fourth District			
Location	Tracks Governed	Type	
Anaheim (2.0 Mi. East)	S.P. Crossing	TCS	
Anaheim Sugar Factory Spur	U.P. Crossing	98-B, 98-C	

**Olive District**

Location	Tracks Governed	Type
Olive (1.7 mile west)	S.P. Crossing	TCS

**STATIONS OR TRACKS NOT SHOWN IN SCHEDULE**

Fourth District				
Location	Mile Posts	Capacity in Feet	Switch Connection	
Irvine Spur	178.7	Lgh. 5.3 m	East	
Browning		1080	East	
Tustin	179.5	1800	East and West	
Stuart	221.7	1210	East and West	
Carlsbad	229.3	2500	West	
San Diego G. & E. Co. Spur	231.3	1005	East	
Solana Beach	241.9	436	East	

**Escondido District**

Talica	3.7	1347	East and West	
Buena	12.9	927	West	

**LENGTHS OF STEMS OF WYES**

Location	Feet
Orange	Olive Dist. Main Track
Irvine	1000
Fallbrook Jct.	5044
Escondido Jct.	Escondido Dist. Main Track
Escondido	300
Miramar	3719
San Diego	Harasithy Street Marine Base Spur
National City	1219

**TRACK SIDE WARNING DEVICES—SPECIAL RULE 7**

Fourth District		
Location	Type	Signals Affected
Bridge 179.7	Highwater	Eastward Control Signals located at east end 2 tracks MP179 and Westward Signal 1801.
Bridge 194.6	Highwater	Westward, signal 1951 and control signal east end of siding Galivan
Bridge 197.9	Highwater	Signal 1952 and controlled signal west end of siding Serra
Bridge 207.6	Highwater	Eastward Signal 2062 and westward Control Signal located M.P. 209.2
Bridge 246.9	Highwater	Eastward Signal 2462 and westward Control Signal M.P. 248.8

WESTWARD								Ruling Grade Descending— Feet Per Mile	TIME TABLE NO. 14 Oct. 31, 1982	Mile Post	Capacity of Sidings In Feet
FIRST CLASS											
85	83	81	79	77	75	73	71				
Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Sat. Sun. & *Hol. Only	Leave Daily	Leave Daily	Leave Daily Except Sat. Sun. & *Hol.				
PM 7.40	PM 5.15	PM 4.00	PM 1.00	AM 11.20	AM 9.10	AM 7.00	AM 5.15	26.4	NATIONAL CITY YL 3.8	273.1	Yard
7.47	5.22	4.07	1.07	11.27	9.17	7.07	5.22	0.0	22ND STREET YL 1.8	269.3	
								31.0	SAN DIEGO YL 3.3	267.5	Yard
								51.7	OLD TOWN YL 6.3	264.2	
								0.0	ELVIRA 4.9	257.9	
								116.2	MIRAMAR 3.9	253.0	
								58.1	SORRENTO 5.0	249.1	4877
8.13	5.45	4.30	1.30	11.53	9.40	7.30	5.45	63.4	DEL MAR 6.0	244.0	
								63.4	ENCINITAS 4.2	238.1	
								64.4	PONTO 6.5	233.8	5333
				PM 12.13	10.02	7.49	6.04	15.8	ESCONDIDO JCT. 1.0	227.2	
8.33	6.05	4.52	1.50	12.13	10.02	7.49	6.04	65.5	OCEANSIDE 2.1	226.2	6096
								69.0	FALLBROOK JCT. 14.3	224.1	4569
		5.12						58.1	SAN ONOFRE 4.4	209.2	4927
								26.5	SAN CLEMENTE 5.0	204.8	
								0.0	SERRA 2.6	199.8	4956
9.03	6.38		2.20	12.43	10.31	8.18	6.33	0.0	SAN JUAN CAPISTRANO 4.6	197.2	
								73.9	GALIVAN 4.5	192.6	4972
								70.2	EL TORO 5.2	188.1	
								63.4	VALENCIA 4.4	182.9	5982
								0.0	IRVINE 2.9	178.6	
9.24	7.00	5.42	2.43	1.04	10.55	8.40	6.55	14.3	SANTA ANA 2.9	175.5	6048
								39.2	ORANGE 4.8	172.6	6250
								16.9	S. P. Crossing ANAHEIM 2.6	167.8	3044
9.45 PM	7.20 PM	6.05 PM	3.05 PM	1.25 PM	11.15 AM	9.00 AM	7.15 AM		FULLERTON	165.0	
Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Sat. Sun. & *Hol. Only	Arrive Daily	Arrive Daily	Arrive Daily Except Sat. Sun. & *Hol.		(107.8)		
(49.1)	(49.1)	(49.1)	(49.1)	(49.1)	(49.1)	(51.1)	(51.1)		Average speed per hour		

OLIVE DISTRICT

WESTWARD	TIME TABLE NO. 14 Oct. 31, 1982	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	EASTWARD
	STATIONS					
	ATWOOD 2.4	0.0	0.0	Y-B	Yard	
	OLIVE S. P. Crossing 3.4	2.4	0.0			
	ORANGE	5.8	0.0	Y	3280	
	(5.8)					

ESCONDIDO DISTRICT

Westward	TIME TABLE NO. 14 Oct. 31, 1982	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	Eastward
	STATIONS					
	ESCONDIDO 4.9	21.1	91.3	Y	1376	
	SAN MARCOS 7.0	16.2	116.2		866	
	VISTA 9.2	9.2	116.2		1811	
	ESCONDIDO JCT. YL	0.0		Y		
	(21.1)					

TCS in effect on main track between Atwood and Orange.

Rule 93: Yard limits at Escondido Jct.

**LOS ANGELES DIVISION**

**FOURTH DISTRICT 13**

TIME TABLE NO. 14 Oct. 31, 1982		Mile Post	Ruling Grade Descending— Feet Per Mile	Capacity of Sidings in Feet	EASTWARD							
					FIRST CLASS							
					72	74	76	78	80	82	84	86
STATIONS					Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily Except Sat. Sun. & *Hol.	Arrive Sat. Sun. & *Hol. Only	Arrive Daily
NATIONAL CITY YL 3.8		273.1	24.3	Yard								
22ND STREET YL 1.6		269.3	22.7		AM	PM	PM	PM	PM	PM	PM	PM
ABS	SAN DIEGO YL 3.3	D.I. 267.5	52.8	Yard	10.45	12.10	3.45	5.35	7.45	8.40	9.40	10.30
						PM						
	OLD TOWN YL 6.3	264.2	65.5		10.27	11.51	3.26	5.16	7.26	8.21	9.21	10.11
ELVIRA 4.9		257.9	113.5									
MIRAMAR 3.9		253.0	0.0									
SORRENTO 5.0		249.1	56.0	4877								
DEL MAR 8.0		244.0	52.8		10.06	11.28	3.05	4.55	7.05	8.00	9.00	9.50
ENCINITAS 4.2		238.1	63.4									
PONTO 6.5		233.8	69.7	5333								
ESCONDIDO JCT. 1.0		227.2	7.4									
OCEANSIDE 2.1		226.2	64.9	6096	9.46	11.08	2.45	4.32	6.45	7.40	8.40	9.30
FALLBROOK JCT. 14.9		224.1	64.9	4569								
SAN ONOFRE 4.4		209.2	26.4	4927								
SAN CLEMENTE 5.0		204.8	26.4			10.47						
SERRA 2.6		199.8	60.5	4956								
SAN JUAN CAPISTRANO 4.6		197.2	65.5		9.12		2.11	4.02	6.11	7.10	8.07	8.57
GALIVAN 4.5		192.6	67.3	4972								
EL TORO 5.2		188.1	0.0									
VALENCIA 4.4		182.9	22.0	5982								
IRVINE 2.9		178.5	38.5									
SANTA ANA 2.9		175.5	32.8	6048	8.52	10.17	1.52	3.42	5.52	6.47	7.47	8.37
ORANGE 4.9		172.6	29.6	6250								
S. P. Crossing ANAHEIM 2.8		167.8	22.7	3044								
FULLERTON		165.0			8.35 AM	10.00 AM	1.35 PM	3.25 PM	5.35 PM	6.30 PM	7.30 PM	8.20 PM
(107.8)					Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily Except Sat. Sun. & *Hol.	Leave Sat. Sun. & *Hol. Only	Leave Daily

Average speed per hour

(46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5)

\* Day of Observance: Washington's Birthday, Memorial Day, Independence Day, Labor Day, and Thanksgiving Day.

HARBOR DISTRICT

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS

WESTWARD	TIME TABLE				EASTWARD	
↓	NO. 14				↑	
	Oct. 31, 1982					
Ruling Grade Descending—Feet Per Mile	STATIONS		Mile Post	Ruling Grade Descending—Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet
61.4	REDONDO JCT. YL	0.0	19.1	R-Y		
37.0	MALABAR YL	1.5	22.7		Yard	
	S. P. Crossing NADEAU YL	2.5				
24.7	WINGFOOT YL	3.5	0.0	B	Yard	
43.4	WILDASIN YL	6.0	10.6		Yard	
19.4	VAN NESS YL	7.3	19.4		Yard	
0.0	HYDE PARK YL	8.0	52.8		Yard	
52.8	INGLEWOOD YL	9.9	52.8		Yard	
79.2	LAIRPORT YL	13.6	79.2	B	4962	
79.2	EL SEGUNDO YL	14.8	79.2	Y		
52.6	LAWNDALE YL	16.6	51.1		Yard	
52.3	ALCOA YL	20.1	58.4	B	Yard	
79.2	TORRANCE YL	21.7	79.2		Yard	
24.3	IRONSIDES YL	23.3	0.0		Yard	
79.2	WATSON YL	26.6	52.8	R-Y	Yard	
	WILMINGTON YL	28.0		B	Yard	
	PIER A YARD YL				Yard	
	WEST THENARD S. P. Crossing YL					
	LONG BEACH YL					
	(28.0)					

LOCATION	MPH
HARBOR DIST.	20
Alcoa Spur	15
<b>SPEED RESTRICTIONS</b>	
M.P. 0.0 To St. Crossing M.P. 1.6	12
M.P. 1.6 to 10.1	15
St. Crossing M.P. 13.1	15
M.P. 20.0 to 23.0	15
All movements Harbor Belt Line	10
Between West Thenard and Long Beach	10

REDONDO DIST.	MPH
REDONDO DIST.	10
Trains and engines will reduce speed to 5 MPH 250 feet in advance and until engine occupies the following crossings:	
Rosecrans Avenue—M.P. 15.5	
Pacific Avenue—M.P. 16.2	
Fifteenth Street—M.P. 16.8	
Manhattan Beach Boulevard—M.P. 17.1	
Pier Avenue—M.P. 18.7	

Rule 93: Yard limits entire Harbor District, Harbor Belt Line, and West Thenard to Long Beach.

Through movements will be programmed to prevent conflict between Redondo Jct. and Watson. Whenever the term "programmed" appears it requires that train and engine crews be provided necessary information to prevent conflict.

Redondo Junction-Watson: Conductor or Engineer on through movements must contact Redondo Junction before leaving Watson or Redondo Junction to determine whether or not there are other conflicting through moves. "Program movement". Movement must be programmed by Operator, Redondo Junction.

Spring point derail located at 2414 feet west of M.P. 27, west end Watson Yard. Normal position set to derail for westward movements.

Light indicators are located between Malabar and Wingfoot:

For westward movement at M.P. 1.7 with 1000 foot approach circuit.  
For eastward movement at M.P. 2.3 with 1000 foot approach circuit.  
Indicators are lighted continuously displaying Red aspect, except when engines or cars foul approach circuit, indicator will display a Green aspect if limits are unoccupied.

If indicator does not change to a Green aspect when engines or cars foul approach circuit, Stop must be made and movement must be protected.

When clearing the main track within the above limits, main track switch must not be returned to normal until engine and cars are clear of main track. Main track must not again be fouled without providing proper protection and in addition main track switch must be opened and wait five minutes.

Before making movements in either direction over Harbor Belt Line tracks between Anaheim St. and Pier A Yard or San Pedro, authority must be secured from Harbor Belt Line Yardmaster. All movements will be made as prescribed by Rule 93, Santa Fe rules apply.

Before making movements over Southern Pacific joint track between West Thenard and Long Beach, authority must be secured from Southern Pacific Trainmasters officer, Long Beach. All movements will be made as prescribed by Rule 93, Santa Fe rules apply.

REDONDO DISTRICT

WESTWARD	TIME TABLE				EASTWARD	
↓	NO. 14				↑	
	Oct. 31, 1982					
Ruling Grade Descending—Feet Per Mile	STATIONS		Mile Post	Ruling Grade Descending—Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet
0.0	REDONDO BEACH YL	20.2	42.2			Yard
0.0	HERMOSA BEACH YL	18.7	42.2			Yard
52.8	MANHATTAN BEACH YL	17.0	49.6			
	EL SEGUNDO YL	14.8		Y		Yard
	(5.4)					

Rule 93: Yard limits Redondo Beach to El Segundo, inclusive. Movement must be "Programmed" by operator, Redondo Jct.

RAILROAD CROSSINGS AT GRADE Harbor District

Location	Tracks Governed	Type
Redondo Junction Nadeau	U.P. Crossing S.P. Crossing	TCS Automatic interlocking, 321(C), 10 MPH
Nadeau (0.3 Mi. East)	S.P. Crossing	Automatic interlocking, 321(C), 15 MPH
El Segundo (0.2 Mi. East)	S.P. Crossing	Rule 98(A)—10 MPH while head end is passing over crossing
West Thenard	S.P. Crossing	Automatic interlocking, 321(C)

SWITCHES—MAXIMUM AUTHORIZED SPEED

Maximum speed permitted through turnout of other than main track switches.—10 MPH; All main track turnouts and crossovers—15 MPH.

LENGTHS OF STEMS OF WYES

Location	Feet
Redondo Junction	Harbor Dist. Main Track
El Segundo	Redondo Dist. Main Track
Watson	3800
Normal position of junction switches El Segundo for Harbor District.	

SAN JACINTO DISTRICT

WESTWARD	TIME TABLE	Mile Post	Rating Grade Descending—Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	EASTWARD
	NO. 14 Oct. 31, 1982					
	<b>STATIONS</b>					
	HIGHGROVE YL S. P. Crossing	0.0			1018	
0.0	7.2		110.2			
	BOX SPRINGS YL	7.2			1555	
52.8	2.4		31.4			
	MARCH FIELD	9.6		B		
17.6	1.0		0.0		2046	
	ALESSANDRO	10.6				
47.5	2.9		0.0		1105	
	VAL VERDE	13.5		Y		
28.6	4.8		9.5		Yard	
	PERRIS	18.3		B		
63.4	4.4		21.6		1030	
	ETHANAC	22.7				
42.2	6.2		49.3		1570	
	WINCHESTER	28.9				
0.0	7.1		52.8			
	HEMET YL	36.0		B	Yard	
63.4	2.3		4.3			
	SAN JACINTO YL	38.3		Y	Yard	
	(38.3)					

Rule 93: Yard limits Highgrove to Box Springs, and Hemet to San Jacinto, inclusive.

Normal position of junction switches: Highgrove for Third District.

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS

Location	MPH
San Jacinto District	40
<b>SPEED RESTRICTIONS</b>	
Highgrove to Box Springs	20
Curve M.P. 18 to 19.2	15
M.P. 34.8 to 35.7	15
M.P. 35.7 to San Jacinto	10

SWITCHES—MAXIMUM AUTHORIZED SPEED

Maximum speed permitted through turnout of other than main track switches—70 MPH; all main track turnouts and crossovers—15 MPH.

RAILROAD CROSSING AT GRADE

Location	Tracks Governed	Type
Highgrove (1.5 Mi. West)	S.P. Crossing	Automatic interlocking Rule 321(C)

STATION OR TRACKS NOT SHOWN IN SCHEDULE

Location	Mile Post	Capacity in Feet	Switch Connection
Lily Cup	0.6	545	East and West
Mayer Farms	15.9	920	East and West
Granite Spur	14.5	Lgh. 0.9 m.	Wye
Ellis	19.9	800	East
Egan	33.1	760	East and West

LENGTHS OF STEMS OF WYES

Location	Feet
Val Verde	Granite Spur
San Jacinto	640

1. Rule 1: Standard clocks are located at on duty points at Needles, Parker, Blythe, Barstow, San Bernardino, Redondo Jct. roundhouse, Hobart yard office, Fullerton, San Diego and 22nd St. yard office.

2. Union Pacific trains using joint tracks between Riverside Jct. and Daggett, and Southern Pacific trains using Santa Fe main track M.P. 104.5 and M.P. 105.5, will be governed by AT&SF Time Table and Rules, Operating Department, and having complied with their company's time regulations may proceed over joint tracks.

3. Within TCS limits, where maximum speed exceeds 20 MPH a train or engine must not clear the main track through a hand-thrown switch, not electrically locked, for the purpose of meeting or passing or being passed by another train or engine.

Following is a list of such switches on Los Angeles and Los Angeles Terminal Divisions not electrically locked.

NEEDLES DISTRICT:

M.P. 737.7 - South Track

FIRST DISTRICT:

- M.P. 59.3x - North Track
- M.P. 66.3 - North Track
- M.P. 75.0 - South Track
- M.P. 76.7 - South Track
- M.P. 79.9 - North Track

THIRD DISTRICT:

- M.P. 7.3 - North Track
- M.P. 7.4 - North Track
- M.P. 7.5 - South Track
- M.P. 7.7 South Track
- M.P. 8.6 - South Track
- M.P. 8.9 - South Track
- M.P. 8.91 - South Track
- M.P. 16.7 - Arlington
- M.P. 38.7 - Main Track
- M.P. 39.3 - South Track
- M.P. 39.8 - South Track
- M.P. 43.8 - South Track
- M.P. 44.1 - North Track
- M.P. 44.4 - North Track
- M.P. 151.2 - South Track, Reeves Co, CLIC 5694
- M.P. 152.4 - South Track, Sunshine Biscuit, CLIC 5703
- M.P. 152.9 - South Track, Los Nietos Team, CLIC 5710
- M.P. 153.3 - South Track, Los Nietos Team, CLIC 5710
- M.P. 153.2 - North Track, Fluid P.K. Pumps Armco, CLIC 5711
- M.P. 153.5 - South Track, Pacific Clay, CLIC 5713
- M.P. 154.1 - South Track, Pryor Giggey, CLIC 5742
- M.P. 154.9 - South Track, Getty Oil, CLIC 5755
- M.P. 155.1 - South Track, Powerine Oil, CLIC 5756
- M.P. 155.5 - South Track, Kelly Pipe, CLIC 5765
- M.P. 156.0 - South Track, Halliburton, CLIC 5777
- M.P. 156.9 - South Track, Federal envelope, CLIC 5811.
- M.P. 157.4 - South Track, Coast Hide Lead, CLIC 5815
- M.P. 157.7 - North Track, Plywood Products, CLIC 5870
- M.P. 158.3 - North Track, Pacific Pump, CLIC 6199
- M.P. 160.8 - South Track, Nutrilite Spur, CLIC 6811
- M.P. 161.1 - South Track, H&L Spur, CLIC 7095
- M.P. 161.6 - South Track
- M.P. 162.2 - South Track

FOURTH DISTRICT:

- M.P. 168.9 - Anaheim
- M.P. 169.2 - Anaheim
- M.P. 171.4 - Orange
- M.P. 199.8 - Serra Siding
- M.P. 221.4 - Stuart
- M.P. 221.7 - Stuart
- M.P. 234.2 - Ponto Siding
- M.P. 237.9 - Encinitas
- M.P. 238.3 - Encinitas
- M.P. 241.8 - Solana Beach
- M.P. 242.1 - Solana Beach
- M.P. 243.3 - Del Mar
- M.P. 248.3 - Sorrento
- M.P. 258.6 - Main Track
- M.P. 258.8 - Main Track
- M.P. 260.2 - Pacific Beach
- M.P. 260.4 - Pacific Beach
- M.P. 263.2 - Main Track

OLIVE DISTRICT:

- M.P. 0.6 - Atwood
- M.P. 0.8 - Atwood
- M.P. 0.9 - Atwood
- M.P. 1.3 - Main Track
- M.P. 3.3 - Main Track
- M.P. 3.5 - Main Track
- M.P. 3.6 - Main Track
- M.P. 4.1 - Main Track
- M.P. 5.0 - Orange

# 16 SPECIAL RULES

4. Rule 80: Bulletin books are located at Needles, Parker, Blythe, Barstow, Victorville, San Bernardino, Kaiser, Riverside, Fullerton, Pico Rivera, Union Station, Redondo Junction, Hobart, Watson, San Diego, and 22nd Street.

5. Rule 125: All sidings having hand-thrown derails will have derail locked off rail, except when engines or cars are left unattended on siding.

6. Rule 759: Following is a list of structures:

- Barstow, First St. viaduct;
- San Bernardino, Mt. Vernon Ave. viaduct;
- Colton, East end track E Griffin Wheel Co.;
- First Street, viaduct over old passenger tracks; and
- Los Angeles, Union Station, train sheds.

7. Rule 105(A) Track side Warning Devices:

When rock slide indicated, trains must proceed at restricted speed until track at this location is known to be clear.

When trains stopped at signals in connection with high water indicator, bridge and track must be inspected before proceeding over bridge.

Abnormal heat from hot wheels (sticking brakes), overheated journals, traction motors or suspension bearings will actuate track side indicators. Dragging equipment will also actuate track side indicators at locations so equipped.

### LOCATOR (Read out) TYPE

When actuated by a condition on a train, a rotating white light will illuminate at detector and locator locations. Stop must be made with head-end at locator, if possible; readout observed and instructions in the locator cabinet complied with.

If counters fail to show location of overheated equipment, the entire train must be thoroughly inspected for hot journals, wheels, bearings, or dragging equipment.

When rotating white light is illuminated before train reaches the detector, stop must be made and locator observed unless otherwise instructed by train dispatcher. If any lamps in locator cabinet are lighted or an axle count is indicated on register, be governed by above instructions. If no lamps are lighted or counters have not registered, train may proceed at prescribed speed and must be observed closely en route.

### RADIO READOUT (Reporter Type)

As train approaches the detector location, the following message will be transmitted via radio:

"SANTA FE RAILROAD (Station and State) NORTH OR SOUTH TRACK, SYSTEM WORKING". This will alert crew that system is operational.

After train has passed the detector location, if no defects were noted, a subsequent message will be transmitted via radio:

"SANTA FE RAILROAD (Station and State) NORTH OR SOUTH TRACK, NO DEFECTS".

If detector is actuated, a rotating white light will be illuminated at detector. In addition, if train is on the North track, a fast beeping tone will be heard on the radio and, if train is on the South track, a slow beeping tone will be heard. If two trains are passing detector at same time and both have defects, the beeping tone will revert to a continuous unmodulated tone. When any of these warnings are observed, crew must immediately prepare to stop for inspection with rear of train 300 feet beyond detector.

After the train has passed detector location, the identification of defect (s), by type and location in train will be transmitted via radio. All references to defect locations will be from rear of train. The "LEFT" or "RIGHT" side mentioned is always referenced to the Engineer's left or right in the direction of travel. The message will be repeated once to insure information is correctly copied. If two trains are involved, reports will alternate until each have been reported twice. The following is a typical example of radio transmission that crews can expect to hear:

- (1) "SANTA FE RAILROAD, (Station and State) NORTH OR SOUTH TRACK, FIRST HOTBOX RIGHT SIDE, one seven, eight."
- (2) "SECOND HOTBOX LEFT SIDE, one four three."
- (3) "SANTA FE RAILROAD, (Station and State) NORTH OR SOUTH TRACK, FIRST DRAGGING EQUIPMENT NEAR AXLE zero six eight."

This type detector has capability to store in it's memory the location of up to three (3) defective journals and three (3) dragging equipment alarms. Anytime three alarms of either type are reported, crew should inspect the remainder of their train for additional defects.

If, after head-end of train passes detector, the white rotating light becomes illuminated and no audible tone or message is received via radio stop will be made with rear end of train at least 300 feet beyond the detector and entire train thoroughly inspected.

If the white rotating light is illuminated before head-end of train reaches detector, the following message should be transmitted via the radio:

"SANTA FE RAILROAD, (Station and State) NORTH OR SOUTH TRACK, SYSTEM FAILURE."

However, be alert for the possible transmission of an audible alarm and message should an alarm occur during passage of the train. If no such alarm or message is received, train may proceed at prescribed speed and must be observed closely enroute.

If, as train approaches and passes detector, no radio message is transmitted, nor does the rotating white light become illuminated, train may proceed at prescribed speed and must be observed closely enroute.

# LOS ANGELES DIVISION

## INSTRUCTIONS APPLICABLE TO ALL TYPES HOTBOX AND DRAGGING EQUIPMENT DETECTORS

When making inspection, give particular attention to heat of journals and hub of wheels. If heat caused by sticking brakes and condition corrected, train may proceed at prescribed speed. If an overheated condition is not found on equipment indicated by detector or locator, close inspection must be made on three cars (or units) on either side of indicated equipment. If, still nothing is found wrong, or if entire train has been inspected, the train may proceed at prescribed speed for the next 30 miles where it must stop for an identical inspection unless train is checked by an intervening hotbox detector, or is delivered to a terminal where mechanical inspection is made.

Mechanical forces at the terminal, and relieving crew at crew change point where, mechanical inspection is not made, must be informed of existing conditions.

If abnormal heat is detected on same car by intervening detector, or during a stop for inspection, car must then be set out.

Any detector failure or malfunction observed must be reported to the train dispatcher as promptly as practicable.

Train dispatchers must not instruct trains to disregard detector indications and proceed without stopping for required inspection, unless they have been informed by a signalman that the detector is actually inoperative.

When a train is stopped by detector, Form 1572 Standard must be filed at first office of communication.

Trains must not exceed 30 MPH while moving over hotbox detectors (scanners) when:

- (a) it is snowing or sleeting; or,
- (b) there is snow on ground which can be agitated by a moving train.

### SPEED REGULATIONS

8. (A) Maximum authorized speed for freight trains handling one or more empty cars 55 MPH.

(Cabooses and cars loaded with empty trailers or empty containers, and flat cars containing generator sets are considered loads.)

(Cars loaded with 20-ft. bogies (empty chassis) are not considered as cars loaded with empty trailers and are restricted to 55 MPH.)

(B) Freight trains averaging 90 tons or more per car or having more than 5000 tons, must not exceed 45 MPH.

9. Between Needles and Summit, freight trains may observe passenger train speed but not to exceed 70 MPH, except Needles District eastward M.P. 701.5 to M.P. 696.2 and from M.P. 686.2 to M.P. 671.4 and westward from M.P. 689.5 to M.P. 693.7, provided:

- (1) Maximum district speed is 60 MPH for freight trains.
- (2) Train does not exceed 5000 tons.
- (3) Train does not exceed 90 cars.
- (4) Train does not average more than 75 tons per car.
- (5) Locomotive can control speed to 70 MPH without use of air brakes.

10. In freight service with dynamic brake not in use maximum speed on descending grades as follows:

1.0 to 1.5% (52.8 to 79.2 feet per mile)	30 MPH
1.5 to 2.0% (79.2 to 105.6 feet per mile)	25 MPH
2.0% (105.6 feet per mile)	15 MPH

11. Where street or highway crossings are shown, speed limit applies only while head end of train is passing.

12. Trains or engines using other than main track must not exceed turnout speed for that track, unless maximum speed otherwise indicated.

### 13. MAXIMUM SPEED OF ENGINES

Engines	Forward or dead in train MPH	When not controlled from leading unit MPH
AMTRAK 100-761, 764-799		
5940-5948, 5990-5998	90*	45
** 1215-1245, 1453, 1460	45	45
ALL OTHER CLASSES	70	45

Forward speed applies when lead unit of train is controlling and is in backing position.

EXCEPTION: When such unit is car body type, maximum authorized speed 45 MPH.

\* Engine without cars must not exceed 70 MPH.

\*\* When used as controlling unit must not exceed 20 MPH.



# LOS ANGELES DIVISION

# SPECIAL RULES 17

Speed limit 50 MPH on following curves boarded in excess of 50 MPH for trains having Amtrak 500 and 600 class units in consist:

### First District

M.P. 79.2 to M.P. 79.5  
Between Verdemon and San Bernardino on both tracks.

### Second District

M.P. 111.8 to M.P. 115.5  
M.P. 118.8 to M.P. 119.7  
M.P. 123.5 to M.P. 123.8  
M.P. 127.3 to M.P. 128.3  
Between San Dimas and Pasadena.

### Third District

M.P. 152.6 to M.P. 154.2  
M.P. 160.8 to M.P. 161.1  
M.P. 165.3 to M.P. 165.4  
Between D. T. Junction and Fullerton.

### Fourth District

M.P. 165.4 to M.P. 166.0  
Between Fullerton and Anaheim.  
M.P. 250.0 to M.P. 250.5  
M.P. 254.2 to M.P. 255.4  
M.P. 256.7 to M.P. 260.3  
M.P. 262.4 to M.P. 262.7  
Between Sorrento and Old Town.

### Light Forward

Diesels without dynamic brakes in use	Ash Hill-Bagdad . . . .	24
	Goffs-Needles . . . . .	24
	Summit to Victorville . .	30
	Summit-Cajon . . . . .	15
	Cajon-San Bernardino	20

**14. Rule 108:** Equipment listed below must not be moved through water above top of rail greater than the depths and not in excess of the speeds shown:

### MAXIMUM DEPTH OF WATER THROUGH WHICH ENGINE MAY BE OPERATED AND MAXIMUM SPEEDS IN SUCH OPERATION

	Maximum depth above top of rail (inches)	Maximum speed (MPH)
All Classes, except Amtrak . . . . .	4	5
Amtrak . . . . .	2	2

**15. Derricks, cranes, pile drivers, spreaders and similar machinery moving on their own running gear must not be moved in trains except on authority of trainmaster, and trains handling such equipment must not exceed speeds indicated below:**

District	Wrecking Derricks M.P.H.	Pile Drivers	Pile Drivers	Other Machines
		AT-199454 AT-199455 AT-199457 AT-199458 AT-199459 AT-199460 AT-199461 AT-199462 AT-199463 and Jordan Spreaders M.P.H.	AT-199452 AT-199453 AT-199456	Locomotive Crane AT-199720 M.P.H.
Needles, Cadiz, First, Second, Third and Fourth Districts . . . . .	40	45		30
Olive District . . . . .	40	40		30
All other Districts . . . . .	15	15		15

Derrick AT 199787 locomotive crane AT-199720 and pile drivers must be handled in trains next to engine.

Trains or engines handling wrecking derricks, cranes, pile drivers, Jordan spreaders, and similar machinery moving on their own running gear, through a turnout must not exceed one-half the maximum authorized speed for that turnout.

All foreign line scale test cars must be handled in trains immediately ahead of caboose at speed not exceeding 50 MPH.

When helper engine is placed behind a caboose, not more than two six-axle operating units totaling not more than 179,400 pounds tractive effort or not more than two four-axle operating units totaling not more than 135,600 pounds tractive effort, or a combination of one six-axle and one four-axle unit totaling not more than 157,600 pounds tractive effort will be used. Below is list showing the weight, tractive effort and horsepower rating of units by class:

CLASS	MAKE	TYPE	WEIGHT	TRACTIVE EFFORT	HORSE-POWER
*200	EMD	F40PH	259,500	38,240	3000
*500	EMD	SDP4OF	396,000	57,300	3000
1215	EMD	SSB1200	246,000	36,000	1200
1242	ALCO	SW12	246,000	47,000	1200
1300	ALCO	CRSD20	380,000	69,800	2050
1310	EMD	GP7	249,000	41,300	1500
1450	EMD	SW	248,000	28,000	900
1460	EMD	SW7	262,500	41,300	1500
2000	EMD	GP7	249,000	41,300	1500
2244	EMD	GP9	249,000	45,200	1750
2417	EMD	GF7	249,000	41,300	1500
2700	EMD	GP30	262,900	51,400	2500
2800	EMD	GP35	266,000	51,400	2500
3000	EMD	GP20	265,000	44,800	2000
3200	EMD	GP30	262,900	50,064	2250
3300	EMD	GP35	266,000	43,850	2500
3500	EMD	GP38	262,500	46,720	2000
3600	EMD	GP39-2	264,400	55,400	2300
3800	EMD	GP40X	264,400	62,500	3500
3810	EMD	GP50	264,400	64,200	3500
4000	EMD	SD39	391,500	82,284	2300
4600	EMD	SD26	387,000	74,152	2625
5000	EMD	SD40	391,500	70,067	3000
5020	EMD	SD40-2	391,500	70,970	3000
5071	EMD	SD40-2	391,500	83,100	3000
5200	EMD	SD40-2	391,500	90,475	3000
5300	EMD	SD45	391,500	72,286	3600
5426	EMD	SD45	389,500	72,286	3500
5490	EMD	SD45	391,886	72,286	3600
5500	EMD	SD45	391,500	72,286	3600
5625	EMD	SD45-2	395,500	73,650	3600
5900	EMD	F45	395,000	72,290	3600
5940	EMD	FP45	399,000	68,006	3600
5950	EMD	SDF45	395,500	72,290	3600
5990	EMD	SDFP45	399,000	68,006	3600
6300	GE	U23B	262,500	60,400	2250
6350	GE	B23-7	268,000	61,000	2250
6364	GE	B23-7	265,000	60,400	2250
6390	GE	B23-7	264,000	61,000	2250
7484	GE	B36-7	264,000	64,600	3600
7500	GE	U23C	395,000	85,800	2250
8010	GE	C30-7	398,800	90,600	3000
8064	GE	C30-7	392,500	90,600	3000
8099	GE	C30-7	395,000	91,500	3000
8500	GE	U33C	391,500	90,600	3300
8700	GE	U36C	391,500	90,600	3600

\* Amtrak passenger units.

## HAZARDOUS MATERIAL

- I. It is the conductor's responsibility to determine the identity and location of hazardous material shipments in the train. The conductor will communicate the information to members of the train and engine crew. Hazardous material shipments can be identified by checking:

**Waybill** The train crew is required to have a shipping paper (waybill) for each hazardous material shipment in the train. A shipping paper is also required for certain empty tank cars last containing hazardous materials. Essential information included on the shipping paper is the proper shipping name, hazard class, quantity, identification number and -RQ- notation when applicable, and placards applied.

**Wheel Reports** The train crew is required to have a wheel report, consist, switch list or other document indicating the position in the train of each loaded placarded car.

**Placards** Certain cars, trailers, and containers loaded with hazardous materials are required to be placarded. Certain empty tank cars which last contained a hazardous material are required to be placarded.

**Commodity Codes** The commodity code will be shown on the waybill and the wheel report. Commodity codes starting with "49" indicate a hazardous material.

- II. In the event of an incident involving hazardous materials, your safety is the first consideration. The following will apply, IF IT IS SAFE TO DO SO:

- A. Notify the Chief Dispatcher by the quickest means possible. If Railroad communications fail or are not available, call long distance to the telephone number listed below:

(714) 884-2111 Extension 241 or 359

- B. Determine the location in the trains of cars involved in the incident. Approach from the upwind (wind at your back) side and go no nearer than absolutely necessary to assess the condition of the cars. Use your eyes, ears and nose to detect any vapor or gas clouds, fire, smoke, unusual smells or noises, leaking material, etc. If any are present, DO NOT GO NEAR THE CARS. Smoking is prohibited in the vicinity of a hazardous material incident.

- C. Assist injured. Call for medical assistance if needed.

- D. The Chief Dispatcher will be furnished as much of the following information as possible:

- (1) Train identification, symbol, employe name and position.
- (2) Specific location of the incident (station, milepost location, nearest street or highway crossing).
- (3) Nature of the incident - number of cars involved, if upright or turned over, if ruptured or leaking, on fire or near fire, vapor or gas cloud, unusual odor or noise, etc.
- (4) Waybill Information
  - (a) Car number
  - (b) Proper shipping name of contents
  - (c) Hazard class of material
  - (d) Shipper and consignee
  - (e) Standard Transportation Commodity Code (49 Series Number)
- (5) Weather conditions (wind direction and intensity, temperature, if raining, snowing, foggy, etc.).
- (6) Location of roads, buildings, people or property subject to harm or damage from the emergency.
- (7) Location of access roads.
- (8) Location of nearby stream, rivers, ponds, lakes or other bodies of water.
- (9) Any other information that will help the dispatcher understand the situation.

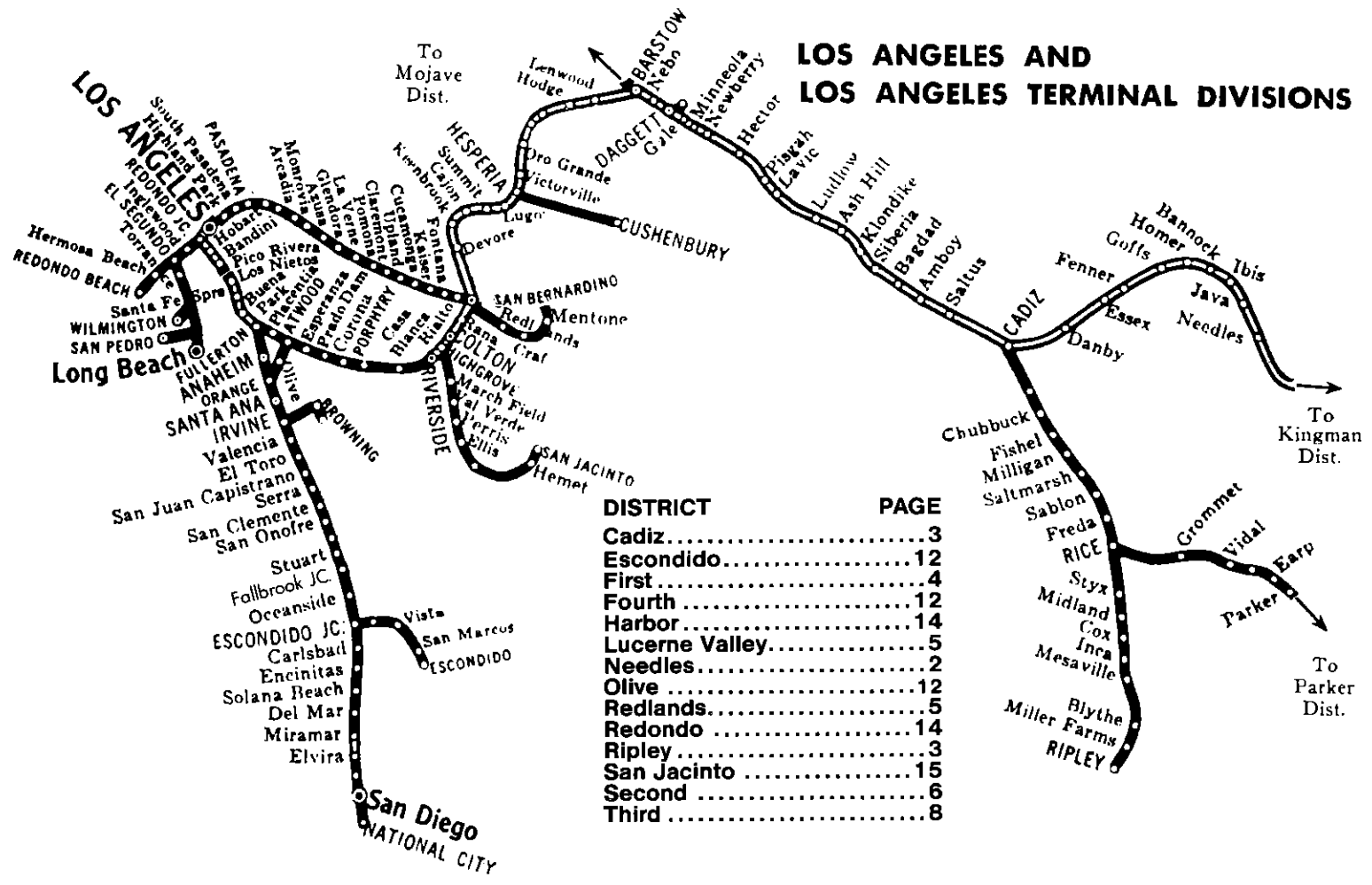
- E. Warn people to stay away from the emergency area.

- F. Contact emergency response personnel upon their arrival (police, sheriff, fire department, etc.) and provide the person in charge with information off shipping papers. DO NOT SURRENDER DOCUMENTS TO ANYONE OTHER THAN AUTHORIZED RAILROAD PERSONNEL.

- G. Remain at the scene at a safe distance until relieved by a railroad Operating Department officer.

<p><b>HOW TO USE THIS CHART:</b>                      To determine where a placarded car can be placed in a train follow these steps:                      • Determine the type of placard that is applied to the car from Line 1.                      • Determine the type of car to which the placard is applied from Line 2.                      • Follow vertically down the chart and note which lines apply.                      • The symbol "✓" indicates wording at the side that applies.                      See footnotes for explanation.</p>		<p><b>POSITION IN TRAIN OF PLACARDED CARS CONTAINING HAZARDOUS MATERIALS</b></p>							
<p><b>1</b> PLACARD APPLIED ON CAR</p>		<p>EXPLOSIVES-A POISON GAS POISON GAS RADIOACTIVE ANY PLACARDED LOAD OTHER THAN COMBUSTIBLE OR POISON GAS OTHER THAN PLACARDED EXPLOSIVES A, POISON GAS OR COMBUSTIBLE PLACARDED EMPTY EXCEPT COMBUSTIBLE COMBUSTIBLE</p>							
<p><b>2</b> TYPE OF CAR</p>		<p>ANY CARS (See Note at bottom of chart) TANK CAR OTHER THAN TANK CAR ANY CAR TANK CAR OTHER THAN TANK CAR TANK CAR TANK CAR</p>							
<p><b>3</b> RESTRICTIONS</p>									
<p><b>4</b> WHEN TRAIN LENGTH PERMITS</p>	<p>MUST NOT BE NEARER THAN 6th FROM ENGINE OCCUPIED CABOOSE OR PASSENGER CAR</p>								
<p><b>5</b> WHEN TRAIN LENGTH DOES NOT PERMIT</p>	<p>MUST BE NEAR MIDDLE OF TRAIN BUT NOT NEARER THAN 2ND FROM ENGINE, OCCUPIED CABOOSE</p>								
<p><b>6</b></p>	<p>LOADED FLAT CAR. A FLATCAR EQUIPPED WITH PERMANENTLY ATTACHED ENDS OF RIGID CONSTRUCTION IS CONSIDERED TO BE AN OPEN-TOP CAR</p>								
<p><b>7</b></p>	<p>AN OPEN-TOP CAR WHEN ANY OF THE LADING PROTRUDES BEYOND THE CAR ENDS OR WHEN ANY OF THE LADING EXTENDING ABOVE THE CAR ENDS IS LIABLE TO SHIFT SO AS TO PROTRUDE BEYOND THE CAR ENDS</p>								
<p><b>8</b></p>	<p>ENGINE</p>								
<p><b>9</b></p>	<p>EXCEPT AS PROVIDED IN LINES 10 AND 11, A CAR OCCUPIED BY ANY PERSON OR A PASSENGER CAR OR COMBINATION CAR THAT MAY BE OCCUPIED.</p>								
<p><b>10</b></p>	<p>OCCUPIED CABOOSE</p>								
<p><b>11</b></p>	<p>OCCUPIED GUARD CAR</p>								
<p><b>12</b></p>	<p>UNDEVELOPED FILM</p>								
<p><b>13</b></p>	<p>A CAR WITH AUTOMATIC REFRIGERATION OR HEATING APPARATUS IN OPERATION, OR A CAR WITH OPEN-FLAME APPARATUS IN SERVICE, OR WITH AN INTERNAL COMBUSTION ENGINE IN OPERATION.</p>								
<p><b>14</b></p>	<p>A CAR CONTAINING LIGHTED HEATERS, STOVES, OR LANTERNS.</p>								
<p><b>15</b></p>	<p>EXPLOSIVES A</p>								
<p><b>16</b></p>	<p>POISON GAS</p>								
<p><b>17</b></p>	<p>LOADED PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARD OR THE "COMBUSTIBLE" PLACARD.</p>								
<p><b>18</b></p>	<p>RADIOACTIVE</p>								
<p><b>MUST NOT BE PLACED NEXT TO</b></p>		<p><b>FOOTNOTES:</b>                      1. Loaded cars placarded "EXPLOSIVES A" may be placed next to each other.                      2. A specially equipped car in trailer-on-flatcar or container-on-flatcar service or a flatcar loaded with vehicles secured by means of a device designed for that purpose and permanently installed on the flatcar, and of a type generally accepted for handling in interchange between railroads may be placed next to these placarded loaded tank cars subject to the following: this exception for cars in trailer-on-flatcar service does not apply to loaded trucks or trailers without securely closed doors.                      3. A rail car placarded "EXPLOSIVES A" OR "POISON GAS" in a moving or standing train must be next to and ahead of any car occupied by the guards or technical escorts accompanying this car. However, if a car occupied by guards or technical escorts is equipped with a lighted heater or stove, it must be the fourth car behind any car requiring "EXPLOSIVES A" placards.                      4. Applies only in mixed train service, see section 174.87.</p>							

# LOS ANGELES AND LOS ANGELES TERMINAL DIVISIONS



DISTRICT	PAGE
Cadiz	3
Escondido	12
First	4
Fourth	12
Harbor	14
Lucerne Valley	5
Needles	2
Olive	12
Redlands	5
Redondo	14
Ripley	3
San Jacinto	15
Second	6
Third	8

## FREIGHT TRAIN SCHEDULE (For Information Only)

### WESTWARD

Trains	Needles	Barstow	San Bernardino	Hobart		
	Lv. Arr.	Lv. Arr.	Lv. Arr.	Lv. Arr.		
168	9:35A	1:15P	2:00P	4:45P	5:00P	8:00P
*178	8:35P	12:15A	1:00A	3:45A	4:00A	6:00A
188	2:35P	6:15P	7:00P	9:45P	10:00P	11:59P
189	12:45P	4:05P	5:05P			
199	4:10A	7:20A	8:20A			
286	12:50P	4:50P	6:10P	9:20P	9:30P	11:30P
308	9:55P	1:55A	3:15A	6:25A	6:40A	9:10A
309	7:20A	11:20A	12:40P			
348	4:25A	8:45A				
408	5:10A	9:40A				
508	6:15A	11:25A				
568	8:45A	2:30P				
579	6:35P	10:35P	8:45A			
588	6:10P	10:10P	11:30P	2:10A	2:20A	4:30A
668	7:40P	11:20P	12:05A	1:35A	1:45A	4:30A
678	11:45A	4:45P				
818			12:01A	3:30A	3:45A	6:00A
838			9:00P	2:00A	3:00A	7:00A
858			12:07A	3:30A	3:45A	7:00A
898			12:01P	3:45P	4:15P	6:00P

\*One Hour Later on Fri., Sat., Sun. & Mon.

708	Lv. Parker	5:30A	3254	Lv. Los Angeles	7:30P
	Ar. Barstow	12:01P		Ar. San Diego	12:40A
807	Lv. Barstow	10:00A	3253	Lv. San Diego	12:40A
	Ar. Parker	4:00P		Ar. Los Angeles	5:50A
5798	YK Coal		3251	Lv. San Bernardino	5:30P
5788	Coal Mlys			Ar. San Diego	10:30P
			3252	Lv. San Diego	11:30P
				Ar. San Bernardino	4:30A

## FREIGHT TRAIN SCHEDULE (For Information Only)

### EASTWARD

Trains	Hobart	San Bernardino	Barstow	Needles		
	Lv. Arr.	Lv. Arr.	Lv. Arr.	Lv. Arr.		
803				12:01A	3:40A	
804				4:00A	8:00A	
805				6:00P	9:55P	
808	12:01A	3:30A	4:00A	7:00A		
811	11:00P	1:30A	1:50A	4:45A	5:45A	9:45A
826				8:00A	12:01P	
828	12:01A	3:30A	4:00A	7:00A		
861	8:30P	10:30P	10:45P	1:15A	2:00A	6:00A
863	8:00P	11:30P	11:59P	3:00A	7:45A	12:01P
865				4:00P	7:55P	
868	12:01A	3:30A	4:00A	7:00A		
876				8:30A	11:55A	
878	1:30A	4:00A	4:30A	7:30A		
881	4:00A	5:50A	6:05A	8:30A	9:10A	12:40P
883	5:30A	7:25A	7:45A	10:15A	11:00A	2:30P
885	11:00A	12:45P	1:00P	4:00P	5:15P	8:55P
886	8:00A	9:55A	10:05A	12:25P	1:05P	4:50P
888	4:00P	7:30P	8:00P	11:00P		
901				8:15P	9:15P	1:05A
971				9:40A	11:00A	2:50P
973				11:45P	2:15A	7:45A
975					12:01P	4:20P
981				11:40A	1:00P	4:50P
991				3:45P	4:15P	7:15P

## SPEED TABLE--FOR INFORMATION ONLY

Time Per Mile	Miles Per Hour	Time Per Mile	Miles Per Hour	Time Per Mile	Miles Per Hour	
Min. Sec.		Min. Sec.		Min. Sec.		
36	100	58	62.1	1	40	36.0
37	97.3	59	61.0	1	42	35.3
38	94.7	1	60.0	1	44	34.6
39	92.3	1	58.0	1	46	34.0
40	90.0	1	56.2	1	48	33.3
41	87.8	1	54.5	1	50	32.7
42	85.7	1	52.9	1	52	32.1
43	83.7	1	51.4	1	54	31.6
44	81.8	1	50.0	1	56	31.0
45	80.0	1	48.6	1	58	30.5
46	78.3	1	47.4	2	59	30.0
47	76.6	1	46.1	2	05	28.8
48	75.0	1	45.0	2	10	27.7
49	73.5	1	43.9	2	15	26.7
50	72.0	1	42.9	2	30	24.0
51	70.6	1	41.9	2	45	21.8
52	69.2	1	40.9	3	00	20.0
53	67.9	1	40.0	3	30	17.1
54	66.6	1	39.1	4	00	15.0
55	65.5	1	38.3	5	00	12.0
56	64.2	1	37.5	6	00	10.0
57	63.2	1	36.8	12	00	5.0

**THE SANTA FE EMPLOYEES COAST LINES HOSPITAL ASSOCIATION**  
**DR. R. R. HARE, MEDICAL DIRECTOR**  
**CHIEF EXECUTIVE OFFICER**  
 Los Angeles, Calif.

**R. N. CROW, GENERAL WATCH INSPECTOR**  
 Topeka, Kansas

For name and address of local surgeons and local watch inspector, refer to bulletin book.