

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

LOS ANGELES TERMINAL DIVISION

W. E. ADAMS, Trainmaster Los Angeles, Calif.
J. L. FIELDS, 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.
W. H. WYSONG, Asst. Trainmaster Los Angeles, Calif.
J. S. BLACK, Asst. Trainmaster Los Angeles, Calif.
G. J. BUHLER, Asst. Trainmaster-Mgr. RFO Watson, Calif.
R. R. MARTIN, Safety Supervisor Los Angeles, Calif.
R.M. BLOOMER, Road Foreman of Engines Los Angeles, 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	D. C. HEDRICK
H. F. BROWN	R. N. BROWNING	J. X. JUSZCZYK
D. E. PRYOR	D. L. DAVIES	C. Q. PATTERSON
J. M. BIERD	G. W. BUXTON	G. W. DRIPPS
D. K. YOUNG	J. L. REDDIÇK	E. B. JACKSON JR
I M TIDEMANN	S G HIMPHPEYS	P F RPENID7A

The Atchison, Topeka and Santa Fe Railway Co.



LOS ANGELES AND LOS ANGELES TERMINAL DIVISIONS

TIME TABLE No.

13

IN EFFECT

Sunday, April 25, 1982

At 12:01 A.M.
Pacific Standard Time

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

H. D. FISH
General Manager
LOS ANGELES, CALIF.

Q. W. TORPIN W. W. TOLIVER R. T. DENNISON
Asst. General Managers
LOS ANGELES, CALIF.

D. D. DIDIER
Superintendent
SAN BERNARDING, CALIF.

D. M. MILLER Superintendent LOS ANGELES, CALIF.

H. D. ROBERTSON
Terminal Superintendent
BARSTOW, CALIF.

2 NEEDLES, CADIZ AND RIPLEY DISTRICTS

LOS ANGELES DIVISION

79.2

79.2

104.5

73.9

73.9

0.0

0.0

0.0

0.0

29.0

35.9

75.0

121.4

57.0

16.4

40.6

31.7

Mile Post

578.0

585.6

592.4

597.0

601.5

609.1

618.7

626.2

634.7

648.1

661.5

669.3

676.7

686.7

706.6

725.6

737.6

746.4

Capacity of Sidings In Feet

7254

5369

5841

9292

5406

5022

7113

6682

5363

Yard

FIRST CLASS

Arrive Daily

AM 2:00

1:39

1:22

1:05

12:58

12:46

12:36

12:30

12:14

AM 11:57

11:42

11:33

11:24 PM

(63.8)

PM 4:15

4:05

PM Leave Daily (52.8)

36

Arrive Daily

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRA		WEST	WARD			TIME TABLE
Barstow to Pisgah	60	FIRST	CLASS	S.		IIME IABLE
Pisgah to Bagdad	60			of Sidings		NO. 13
Bagdad to M.P. 646.1	60 ,	35	3	~		140. 19
M.P. 646.1 to Goffs	60			5	Ruling Grade Descending— Feet Per Milo	April 25, 1982
Goffs to Needles	50			Capacity In Feet	25.5	
SPEED RESTRICTIONS				돌은	E 8 E	
3 Curves M.P. 747.0 to 745.0 50	50	Leave Daily	Leave Daily	35	252	STATIONS
5 Curves M.P. 745.0 to 739.7	60	Daily	Palit			
Curve M.P. 711.6 to 710.6 80	60	ł	AM	Yard		NEEDLES YL
Curves M.P. 710.6 to 708.2 65	60		12:20		0.0	No. 7.5
Curve M.P. 708.2 to 707.8	60	1	12:30	5317		JAVA
urve M.P. 702.0 to 701.5 55	55		12:38	7329	0.0	
Curve M.P. 701.5 to 700.4 65	60		12.30	7329	0.0	IBIS
Curves M.P. 700.4 to 696.2 70	60		12:45	5418		BANNOCK
2 Curves M.P. 696.2 to 694.9	55 45		12:51	6716	0.0	HOMER
	60				21.1	HOMER
urve M.P. 693.6 to 692.8 65 Curves M.P. 692.8 to 689.5	60		1:02	7318	59.1	COFFS
Curves M.P. 692.5 to 688.4 55	55		1:09		59.1	FENNER
Curves and Grade M.P. 688.4 to 685.8 65	60			·	57.0	7.5
urve and Grade M.P. 685.8 to 683.4 70	45				57.0	ESSEX
urves & Grade M.P. 683.4 to 680.7X 45*	45		1:20	5383	l	DANDY
Curves & Grade M.P. 680.7X to 677.8 60	45	_			52.8	13.4————————————————————————————————————
Curves & Grade M.P. 677.8 to 671.4 65	45		1:30	7328	53.8	OADIZ
rve M.P. 656.0 to 655.7 80	60		1:39	5296		AMBOY >
Curves M.P. 646.1 to 642.4 70	60			 	11.6	7.8
urve M.P. 639.2 to 638.8	60		1:45		0.0	BAGDAD %
Curves M.P. 631.0 to 628.7	60		1:53	6746		SIBERIA
Curves M.P. 625.5 to 618.9 65	60		2:07	5414	0.0	No. 9.5—So. 7.7—— ASH HILL
Curves M.P. 618.9 to 612.2 70	60				54.4	19.9
Curves M.P. 612.2 to 609.1 65	60		2:29	6605	4	{ PISGAH }
Curves M.P. 609.1 to 608.3 60	50		2:45	7352	55.4	NEWBERRY
Curves M.P. 601.4 to 597.8 60	50	—P M—			13.7	{ ≻
Curves M.P. 597.8 to 590.2 70	50	12:25	2:55		43.3	II DAUGEII M
urve M.P. 590.2 to 589.3 65	50	s 12:35	g 3:20	Yard	70.0	BARSTOW
Curves M.P. 589.3 to 587.2 45	45	PM	AM	Taru		BARSTOW)
4 Curves M.P. 587.2 to 578.8 50	50	Arrive	Arrive			VAR. (1.00 E) (1.00 E)
urve M.P. 578.8 to 578.1 45	45	Daily	Daily]	NORTH (168.7) (166.0) SOUTH
'H" Street Crossing M.P. 578.1 15	<u> 15</u>	(52.8)	(56.2)		_	Average speed per hour
NEEDLES DISTRICT NORTH TRACK		_`			<u> </u>	
Needles to Goffs	60				Cadiz	District MPH

Cadiz District	MPH
Cadiz District	49
SPEED RESTRICTIONS	
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	МРН
Rice to Blythe Blythe to Ripley Riverview Farms Spur	20
SPEED RESTRICTIONS	
4 Curves M.P. 0.0 to 1.0	30 25 20
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	MPI
Needles	M.P. 578.4 crossover main track to freight lead	5(
Daggett	Two main track crossovers Turnout to Union Pacific main track	
Barstow	M.P. 743.6 two main track crossovers M.P. 743.6 auxiliary yard entry M.P. 745.7 EE Passenger Siding M.P. 745.8 Crossover M.P. 745.9 Yard Entry M.P. 746.8 WE Passenger Siding Crossover M.P. 746.8 Departure Yard Lead M.P. 746.8 Inspection Yard Lead M.P. 746.9 Inspection Yard Lead M.P. 748.9 North Departure Yard Lead M.P. 749.0 South Departure Yard Lead M.P. 749.1 2 Crossovers M.P. 749.2 Mojave District Jct. M.P. 749A.0 Mojave District Receiving Yard Lead M.P. 749A.9 First District Receiving Yard Lead M.P. 4.3 (Continued on Page 3)	50 20 50 50 50 50 50 50 50

11 Sheer Crossing W.F. 376.1	13
NEEDLES DISTRICT NORTH TRACK	
Needles to Goffs 79	60
Goffs to Bagdad	60
Bagdad to Pisgah	60
Pisgah to Barstow	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	

BARSTOW YARD

Maximum Speed Through Following Power Switches:	
EE and WE Inspection Yard Tracks I-2 and I-3 (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 D-1 through D-5	30
WE All Departure Yard Tracks	30
EE Departure Yard Tracks D-6 through D-10	15
Maximum Speed on Balloon Track	
Spring Switches at West end North track sidings	APH
Java, Ibis, Bannock, Homer, Goffs, Danby, Cadiz, Amboy, Siberia, Ash I	

Pisgah, Newberry, Daggett

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

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

CADIZ DISTRICT

WESTWARD	Ruling Grade Descending— Feet Per Mile	TIME TABLE NO. 13 April 25, 1982 STATIONS	Mile Past	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	EASTWARD
		PARKER YL	105.8		C-R-Y	Yard	
	29.6 21.1	VIDAL	120.0	31.7 30.6	В	880	
	:	RICE YL	140.4		B-Y	2471	
	25.3	FREDA	144.0	0.0	<u> </u>	2100	
	30.6 31.7	SABLON	151.0	0.0 29.6		2846	
	31.7	18.2 FISHEL ——21.3————	169.2	29.6		4949	
		OADIZ YL	190.5	20.0	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	Ruting Grade Descending— Feet Per Mile	TIME TABLE NO. 13 April 25, 1982	e Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	EASTWARD
	Pec	STATIONS	Mile	292	216	<u>5</u> =	
	42.8	RIPLEY YL	49.4	21.7			
	10.6	BLYTHE YL	42.0	83.4	C-R-Y	Yard	
	83.4	STYX	16.5	65.0		526	
	00.4	RICE YL	0.0	00.0	B-Y	2471	
		(49.4)					

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

TDACK	CIDE	MA DELINIO	DEMACES	CRECIAL	DILLE	-
IKAÇK	SIDE	WARNING	DEAICE3-	-SPECIAL	KULE	/
Needles District						
		ITCCUIT	CS BISHIAI			

Location	Type	Locator & Signals Affected				
Bridge 587.9	Highwater	Signals 5871 and 5892				
M.P. 628.1 South track	Hot Box	Rotating white lights at scanner, at M.P. 627 and at locator (M.P. 626				
M.P. 631.3 North track	Hot Box	Rotating white lights at scanner and at locator (M.P. 633.5)				
Bridge 642.9	Highwater	Signals 6421 and 6442				
M.P. 644.5 North track	Hot Box and Dragging Equip.	Rotating white lights at scanner, at M.P.646.5 and at locator (M.P.648.1				
M.P. 651.6 South track	Hot Box and Dragging Equip.	Rotating white lights at scanner and at locator (M.P. 648.9)				
M.P. 665 South track	Hot Box and Dragging Equip.	Rotating white lights at scanner and at locator (M.P. 662.5)				
M.P. 665 North track	Hot Box	Rotating white lights at scanner and at locator (M.P. 667)				
M.P. 690.4 (Both tracks)	Hot Box and Dragging Equip,	Rotating white lights and radio communications at scanner				
M.P. 709.1 North track	Hot Box and Dragging Equip.	Rotating white lights at scanner and at locator (M.P. 711,8)				
M.P. 716.4 South track	Hot Box and Dragging Equip.	Rotating white lights at scanner and at locator (M.P. 714.3)				
	Cadi	z District				
0.1 10//	110 1	Barrelle IIII				

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
Gale	735.3	492	East
Nebo	741.6	5488	East and West
	Cadiz Dis	strict	
Earp	107.3	1236	West
Grommet	131.6	300	East
Milligan	164.0		
Metropolitan Water			
Dist	163.9	1 <i>7</i> 11	East and West
Pacific Salt Co Standard Chemical	163.7	212	East and West
Co	162.6	988	East and West
Chubbuck	172.7		
	Ripley Di	strict	
Midland	17.8	308	West
Cox	20.4	933	East
Inca	22.6	1512	East and West
Mesaville	33.0	472	West
Rîverview Farms Spur.	36.3	Lgh. 3.9 m.	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
Needles		401
Ash Hill		410
Barstow		District
Rice	Ripley I	District
Blythe		504

FIRST DISTRICT

LOS ANGELES DIVISION

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS First District Westward Movements Both Tracks MPH	WE	STWARD						EASTV	NARD
LOCATION Pagr. and Light Freight Barstow to San Bernardino		T CLASS	-	TIME TABLE			2 <u>2</u>	FIRST	CLASS
SPEED RESTRICTIONS 2 Curves M.P. 746.4 to 747.0)	3	Ruling Grade Descending— Feet Per Mile	NO. 13 April 25, 1982	e Post	Ruling Grade Descending— Feet Per Mile	Capacity of Sidings In Feet	36	4
2 Curves M.P. 10.3 to 11.9	Leave Daily		Tee.	STATIONS	₩	255	2 E	Arrive Daily	Arrive Daily
Curve M.P. 19.7 to 20.4	PM		-	BARSTOW	746.4	41.0	Yard	PM s 4:05	PM s 11:15
2 Curves M.P. 31.8 to 33.8			35.9	LENWOOD 6.9 HODGE	6.7	41.0 37.0			
Victorville M.P. 36.6 to 37.4)	-	37.0	EAST ORO GRANDE	29.4	37.0 37.0			
(M.P. 39.1 to 42.0 (South Track)) (M.P. 37.4 to 39.1 (South Track))			37.0	ORO GRANDE VICTORVILLE	31.5	37.0	Yard Yard		
4 Curves M.P. 39.1 to 39.3 (North Track) \$ 4 Curves M.P. 39.3 to 42.0 (North Track) 45 Curve M.P. 42.0 to 43.7 50		_	0.0	1.3 N		15.8 83.4			
Curve M.P. 47.2 to 48.1	3		0.0	FROST 7.1 HESPERIA 5.0 LUGO	45.1 50.1	81.8	Yard		.
17 Curves M.P. 48.8 to 56.1 50 50 Grade M.P. 56.1 to 56.6	5	_	0.0 n116.2	SUMMIT ——No. 8.9—So. 6.9——	55.9	84.5 0.0			
Grade M.P. 56.6 to 62.2 (South Track) 30* Grade M.P. 56.6 to 64.2X (North Track) 30* Grade M.P. 62.2 to 64.2)		116.2	CAJON 6.6 KEENBROOK	62.8	0.0	 		ļ
Grade M.P. 64.2 to 66.5	5		116.2	VER DEMONT	73.9	0.0			
Grade M.P. 72.6 to 80.8		s 5:20 AM		SAN BERNARDINO	81.3		Yard	2:15 PM	9:17 PM
* Denotes restrictions protected by Inert ATS Inductors	Arrive Daily			South Track (81.3) North Track (83.3)				Leave Daily	Leave Daily
Helper locomotives at or near rear of train may use dynamic brakes: Summit to San Bernardino	(50.2)	(44.3)		Average speed per hour				(45.4)	(42.4)

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. Victorville C-R Rule 6(B) Barstow and San Bernardino C-R-Y Main tracks cross at grade separation M.P. 39.1 and are designated as pre-

scribed 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	
Hodge	Two crossovers	
East Oro Grande	Two crossovers	
Frost	Two crossovers	
Lugo	Two crossovers	
Summit	Two crossovers	
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	P H	"RCE" OR HELPER OPERATION WITH DYNAMIC BRAKES	M P H
COLITIL TO A CK			Average Tonnage Does Not				Average Tonnage Does Not Exceed 135 Tons Per Car	15
South Track M. P. 56.6 to Cajon	Average Tonnage Does Not Exceed 115 Tons Per Car	15	Exceed 95 Tons Per Car and Train Tonnage Does Not Exceed 4500 Tons	20	Nat To Exceed An Average of 85 Tans Per Car	15	Average Tonnage Does Not Exceed 95 Tons Per Car and Train Tonnage Does Not Exceed 4500 Tons	20
NORTH TRACK			Average Tonnage Does				Average Tonnage Does Not Exceed 135 Tons Per Car	20
M.P. 56.6 TO CAJON AND EITHER TRACK	Average Tonnage Does Not Exceed 115 Tons Per Car	20	Not Exceed 95 Tons Per Car and Train Tonnage Does	30	Not To Exceed An Average of 95 Tons Per Car	15	Train Tonnage Between 6500 Tons and 12000 Tons	25
CAJON TO SAN BERNARDINO	rer car	Not Exceed 6500 Tons				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.

3. 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 locamotives, set 15 retainers in high pressure position, release train brakes. Then place head one-half of trains' 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 Bernardina, 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 Tans on South Track Summit to Cajon; 3500 Tons on North Track Summit to Cajon and 4500 Tons on Either Track Cajon to San Bernardino.

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

LOCATION	Psgr.	Fr	eight
San Bernardino to Barstow	79		60
			MPH
SPEED RESTRICTIONS			
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
Curves M.P. 71.5 to 70.8			40
3 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
l6 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)			3.
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)			4.
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
(45 45 45 45 45 45 45 45 45 45 45 45 45 4			21
3 Curves M.P. 42.0 to 39.1 (South Track) {			4.
4 Curves M.P. 42.0 to 39.3 (North Track)			4:
(M.P. 39.3 to 39.1 (North Track))			40
2 Curves 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			3.
2 Curves M.P. 33.8 to 31.8			5.5
Curve M.P. 31.8 to 30.6			73
Curve M.P. 20.4 to 19.7			7
Curve M.P. 17.2 to 16.7			7
2 Curves M.P. 11.9 to 10.3			7
2 Curves M.P. 4.6 to 747.0			6
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	brak	e:
Summit to Victorville	_		
DEDIANDS DISTRICT			MPI
REDLANDS DISTRICT	· · · · · <u>· ·</u>	• • •	20
SPEED RESTRICTIONS			
Crossings M.P. 0.0 to 0.7			
Crossinas M.P. 0.7 to 3.1			13

EDLANDS DISTRICT	20 20
PEED RESTRICTIONS rossings M.P. 0.0 to 0.7	
rossings M.P. 0.7 to 3.1	15
edlands, St. Crossings M.P. 8.9 to 9.4	10
JCERNE VALLEY DISTRICT	
	3

STATIONS OR TRACKS NOT SHOWN IN SCHEDULE First District

Location	Mile Post	Capacity in Feet	Switch Connection
Helendale	21.1	1051	East and West
Helendale	21.1	1050	(North Track) East and West
melenaale	21.1	1030	(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
Alami	59.7X	920	(South Track) East (North Track)
Airay	71.0	1600	East and West
	75.0	1040	(South Track) East (North Track)
Ono	75.0	1960	East (North Track)
	REDLANDS		
Nevada Street	6.7	<i>7</i> 50	East and West
Craf	11.4	188	East
LUC	CERNE VALL	EY DISTRICT	
Pluess-Staufer, Inc Chas. Pfizer and	23.5	884	East and West
Co. Inc.	26.2	1300	West

REDLANDS DISTRICT

WESTWARD	rade ng Mile	TIME TABLE NO. 13 April 25, 1982	1	ade ng- Mite	cations es	of Sidings	EASTWARD
V	Ruling Grade Descending— Feet Per Mile	STATIONS	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity In Feet	
	0.0 116.2 116.2	END OF TRACK YL MENTONE YL 3.2 REDLANDS YL 8.8	13.4 12.0 8.8	84.5 0.0 79.2		790	
		S. P. Crossing SAN BERNARDINO YL (13.4)	0.0		C-R-Y	Yard	

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

Normal position of junctions switches San Bernardino for First District.

LUCERNE VALLEY DISTRICT

WESTWARD	Ruling Grade Descending— Feet Per Mile	NO. 13 April 25, 1982 STATIONS	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	EASTWARD
	105.6 105.6 75.0	OUSHENBURY3.1- SPUR 510.5 BASS4.3 SPUR 2	29.2 26.1 15.6 11.3	0.0 0.0 75.0	В	700 760 122	
	75.0 75.0	SPUR 2 SPUR 1 6.8 HESPERIA YL (29.0)	7.0	75.0		114	

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

Location	Туре	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	Туре
South "E" Street	S.P. Crossing	98-B, 98-C

SECOND DISTRICT **EASTWARD** WESTWARD TIME TABLE Capacity of Sidings In Feet FIRST CLASS FIRST CLASS NO. 13 4 Ruling Grade Descending— Feet Per Mile 36 3 35 April 25, 1982 Mile Post Arrive Daily Arrive Daily Leave Daily Leave Daily **STATIONS PM** 2:12 PM PM 2:20 SAN BERNARDINO YL 81.3 Yard 9.14 -3.6-64.9 0.0 1935 RIALTO ΥI 84.9 1:56 8.59 2:27 5:32 35.4 38.7 KAISER YL91.8 1:51 Yard 8.54 5:38 2:32 14.3 37.7 ETIWANDA 93.7 ΥL 14.3 32.0 97.7 OUCAMONGA YL 1:46 8.49 3154 2:37 5:44 56.4 19.3 UPLAND YL100.9 2363 1:43 8.46 2:40 5:48 30.6 -3.9-42.2 5:53 CLAREMONT YL104.8 1:39 8.42 2:44 POMONA 0.0 59.1 106.7 3079 1:37 s 8.40 2:52 6:00 0.0 63.4 SAN DIMAS 110.2 0.0 63.4 GLENDORA 114.4 2820 1:24 8.27 6:10 3:01 0.0 63.4 AZÜSA 116.9 1:21 8.25 6:13 3:04 75.0 39.6 IRWINDALE 118.2 1:19 8.23 3:06 6:16 BUTLER 0.0 81.3 120.2 2740 60.7 26.4 MONROVIA 122.4 1:15 8.19 6:20 3:10 75.0 26.4 ARCADIA 124.2 75.2 0.0 CHAPMAN 127.3 1:10 1800 8.15 6:27 3:15 78.1 95.0 PASADENA ΥL 131.7 1702 1:05 s 8.10 6:45 3:23

LOS ANGELES DIVISION

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 Bemardino.

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, Pasadena, and Water Street to Broadway.

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

(34.0)(31.0) 114.6

88.7

106.9

89.8

37.0

19.0

6:51

7:20 **AM**

Arrive

3:27

4:05

Arrive Daily

Average speed per hour

(59.5)

SOUTH PASADENA

OĽĞA

WATER STREET

-0.7-

BROADWAY

O.6
MISSION TOWER
S.P. & U.P. Crossings
-0.8
LOS ANGELES

(38.8)

Leave Daily

12:57

12:44

12:40

PM

0.0

0.0

31.7

0.0

0.0

0.0

1698

735

Yard

133.7

134.2

138.7

139.4

140.0

YL

(38.0)

7.57

7.44

7.40

MAXIMUM AUTHORIZED DISTRICT SPEED FOR	TRAINS	
Second District	Psgr.	APH Frt.
LOCATION	rsgr.	
San Bernardino to Los Angeles	65	60
Metropolitan and Pasadena Industrial Spurs	15	15
SPEED RESTRICTIONS		
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
2 Curves M.P. 118.8 to 119.7	55	55
2 Curves M.P. 122.2 to 124.8		60
M.P. 124.8 to 131.0	60	40
M.P. 131.0 to 131.8		20
M.P. 131.8 to 135.5	_	30
7 Curves M.P. 135.5 to 138.3	25	25
4 Curves M.P. 138.3 to 140.0		20
Curve M.P. 140.0 to 140.2		15
* Denotes restrictions protected by Inert ATS Inductors		

CWITCHES	AZA VISALISA	AUTHORIZED	CDEED
2MIICHE2-	-MAXIMUM	AUTHURIZED	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—15 MPH; except fo	or spring

and interlocked switches and crossovers at following locations: "I"—Interlocked Switch. "EE"—East End.

"S"—Spring Switch. "WE"—West End.

Second District

San Bernardino	ı	Crossover between main tracks east of Bridge 82.1.	20
Broadway	1	Two track junction switch	20

RAILROAD CROSSINGS AT GRADE **Second District**

Location	Tracks Governed	Туре	
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	<i>75</i> 0	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. 1772	East East and West
Raymond	13 2. 7	475	West
Highland Park	135.9	250	East

LENGTHS OF STEMS OF WYES

Location	Feet
Second District	
San Bernardino3rd	Dist. Main Track
San Bernardino	Precooler Lead
Cucamonga .,	Foothill Spur
Azusa	147
Mission Tower	L.A.U.P.T.

TRACK SIDE WARNING DEVICES

SPECIAL RULE 7 **Second District**

Location	Туре	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	

			<u>_</u>	VESTWAR	ע				TIME TABLE		
			F	IRST CLA	.ss				NO. 13		8
83	85	81	79	77	75	73	71	و ایم	April 25, 1982		Siding
Leave Daily	Leave Sat. Sun. & *Hol. Only	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Dally Except Sat. Sun. & *Hol.	Ruling Grade Descending— Feet Per Mile	STATIONS	Mile Post	Capacity of Sidings
							<u>& '∏DI.</u>		SAN BERNARDINO	0.0	Ya
							<u> </u>	52.8	SAN BERNARDINO RANA	1.6	
								52.8	COLTON S. P. Grossing	2.9	Ya
			——	ļ——		·		59.8	————3.8——— N	6.7	
								52.8	HIGHGROVE 3.5 2.5 RIVERSIDE JCT. S	9.2	Ya
					<u> </u>			14.2	RIVERSIDE	9.8	— Ya
					-			52.8	CASA BLANCA	14.0	49
								52.8	ARLINGTON	16.4	30
								52.8	3.8 MAY	20.2	46
						_		52.8	PORPHYRY	22.8	80
								30.1	CORONA	24.1	83
								52.8	PRADO DAM	29.2	47
								52.8	=	36.4	63
				i				52.8 42.2	ATWOOD 2.4	40.6	
РМ—	-P M-	PM	—РМ—	PM	—A M—	-AM-	-AM-	42.2	PLACENTIA 3.0	43.0	
9.45	8.15	6.25	5.05	2.15	10.55	9.00	7.15		□ FULLERTON ► U. P. Crossing	165.0	
								33.3 26.4	BUENA PARK	160.3	
								17.4	LA MIRADA	157.7	Yaı
									LOS NIETOS S. P. Crossing	153.0	
3								26.9	D. T. JUNCTION TO S. P. Crossing AC	152,1	
								0.0	PICO RIVERA	150.9	Ya
								0.0	1.1———————————————————————————————————	149.8	
								52.8	EASTERN AVE.	147.3	
								0.0	HOBART	146.0	Yaı
								11.1	HOBART TOWER U. P. Crossing	144.5	
									REDONDO JCT. U. P. Crossing	143.2	
				! 				0.0	FIRST STREET		Yai
								0.0	(70.7) 1.1 Mission Tower	141.1	
								10.6	S. P. & U. P. Crossings		
0.25 PM	8.55 PM	7.05 PM	5.45 PM	2.55 PM	11.35 AM	9.40 AM	7.55 AM		LOS ANGELES Union Station		
urrive Delly	Arrive Sat. Sun. & *Hol. Only	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily Except Sat/Sun & *Hol.		WEST (72.6) (71.6) EAST		

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.)

Trains from Harbor District enroute Third District must get clearance card before leaving Hobart.

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 U.P. main track (short way) located on left side of track.

Rule 6(B): San Bernardino & Mission Tower C-R-Y; Riverside, Fullerton & Hobart C-R; Pico Rivera R; Redondo Jct R-T-Y; Highgrove B; Casa Blanca, Porphyry & Atwood 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 Traditional Observance: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas

TIME TABLE							EA	STWARD) 		
NO. 13			52				FIR	ST CLAS	s		
April 25, 1982		1 2	Sidin	72	74	76	78	80	82	88	84
STATIONS	Mile Post	Ruling Grade Descending— Feet Per Mile	Capacity of Sidings In Feet	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Caily	Arrive Daily	Arrive Daily Except Sat. Sun. & *Hol.	Arrive Sat. Sun. & *Hol. Only	Arrive Daily
SAN BERNARDINO	0.0			l	·			-	4 101.		-
RANA PROPERTY OF THE PROPERTY	1.6	64.4					=				
COLTON S. P. Crossing	2.9	0.0	Yard								
HIGHGROVE ⊒	6.7	34.8	Yard								
RIVERSIDE JCT.	9.2	0.0									
RIVERSIDE	9.8	63,4	Yard								
CASA BLANCA	14.0	21.1	4905								
ARLINGTON 3.8	16.4	0.0	3095					. <u>-</u>			
MAY 	20.2	0.0	4692 8059					<u> </u>			
1.3————————————————————————————————————	$-\frac{22.8}{24.1}$	0.0	8370			<u> </u>	<u> </u>	·			
PRADO DAM	29.2	24.3	4735					·			
ESPERANZA	36.4	21.1	6359		- 		-	<u> </u>			
	40.6	13.2									
PLACENTIA	43.0	0.0		AM-	—A M—	PM	PM	-PM-	-PM-	———— —PM—	Р М
FULLERTON U. P. Crossing	165.0	0.5		s 8.35	s 10.25	s 12.30	s 2.25	s 5.35	s 6.30	s 7.10	s 8.55
BUENA PARK	160.3	10.0						 			
LA MIRADA	157.7	25.9 37.0	Yard								
LOS NIETOS S. F. Cressing	153.0										,
D. T. JUNCTION S. P. Crossing	-	17.4									
	152.1 150.9	4.2	Yard				-	\ <i>'</i>	- 		
PICO RIVERA BANDINI	149.8	22.7					ļ		·		
EASTERN AVE.	147.3	22.7		·							
HDBART	146.0	19.0	Yard					-			
HOBART TOWER	<u> </u>										
U. P. Crossing 1.3 REDONDO JCT.	144.5	52.8									
U. P. Crossing	143.2	34.8									
FIRST STREET (70.7)	141.1	43.0	Yard								
MISSION TOWER S. P. & U. P. Crossings	140.0	43.0									
O.B ————————————————————————————————————		43.8		8.00 AM	9.50 AM	11.55 AM	1.50 PM	5.00 PM	5.55 PM	6,35 PM	8.20 PM
WEST (72.6) (71.6) EAST				Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily Except Sat. Sun. & *Hol.	Leave Sat. Sun. 4 *Hol. Only	Leave
Average speed per hour	-		·	(46.9)	(46.9)	(46.9)	(46.9)	(46.9)	(46.9)	(46.9)	(46.9)

10 THIRD DISTRICT

LOS ANGELES DIVISION

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS	
LOCATION Psgr.	Frt.
San Bernardino to Fullerton	60
Fullerton to M.P. 158.7	60
M.P. 158.7 to Los Angeles	60
SPEED RESTRICTIONS 2 Curves M.P. 0.0X to 0.4X.	MPH 1.5
2 Curves and Bridge M.P. 0.0 to 0.9 (Short Way)	
4 Curves M.P. 0.9 to 1.6 (Short Way)	
7 Curves and Colton M.P. 0.4X to 3.2	
Curve M.P. 6.6 to 6.8	
2 Curves M.P. 6.8 to 9.6	
Two Track Junction switch M.P. 10.1	
2 Curves M.P. 11.8 to 12.5	
4 Curves M.P. 15.4 to 17.1	
Corona M.P. 22.5 to 25.6	
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	
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.F. 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
RAILROAD	CRO

SWITCHES—MAXIMUM AUTHORIZED SPEED	
Trailing movements, spring point derails:	MPH
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:

Station	Location MPF
Rana	Junction switch and crossover20
Colton	Two crossovers
Riverside Junction	Union Pacific junction switch when not using crossover30
Riverside	Two-track junction switch30
Atwood	Two-track junction switch40
	Olive District junction switch40
Fullerton	Fourth District junction switch
	Two crossovers M.P. 45.5
	One crossover M.P. 163.0
Buena Park	One crossover
La Mirada	One crossover
D. T. Jct.	Two crossovers
Bandini	Two crossovers50
Eastern Aye.	Main track crossovers and lead switch40
Hobart	Main track crossover30
	Crossover north main track to setout track
Hobart Tower	Two crossovers

STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

Location	Mile Posts	Capacity in Feet	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	<i>75</i> 30	East and West
Santa Fe Springs	154.1	4250	East and West

AILROAD 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.
		J

TRACK SIDE WARNING DEVICES SPECIAL RULE 7

Location	Турв	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 Blanca300 feet
Porphyry 3.5 m.
Atwood
Redondo Junction Harbor Dist. Main Track
Mission Tower L.A.U.P.T.

No. 71, No. 73, No. 75 Daily, No. 77 Sat. & Sun. only, 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 tracks, end of double track Old Town to Fullerton and on sidings Ponto and Orange.

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

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

Normal position of junction switches: Fallbrook Jct. for Fourth District siding.

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS **Fourth District**

rourin District		МРН
LOCATION	Psgr.	Frt,
National City to Sorrento	79	60
Sorrento to Santa Ana	90	60
South Main Track, M.P.179.1 to 176.7	40	40
Santa Ana to Fullerton	79	60
Bania Ana to renember 11,1111111111111111111111111111111111		
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 to245.6	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 to198.6	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	40i*	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	мрн
ESCONDIDO DISTRICT	30
SPEED RESTRICTIONS	
Hill St. & 17 Curves & track M.P. 0.3 to 7.1	
9 Curves & track M.P. 9.0 to 14.8	20
6 Curves M.P. 17.9 to 19.5	
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:

"EE"—East End.	"WE"—West End.	
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
Ponto	EE and WE of siding	40
Miramar	WE two maiπ tracks—M.P. 252.9	30
Elvira	EE two main tracks—M.P. 257.9	40
Old Town	Two-track junction switch	30
	Olive District	
Atwood	Junction switch	40

RAILROAD CROSSINGS AT GRADE

Fourth District			
Location	Tracks Governed	Туре	
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	Туре
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. 1080	East East
Tustin	179.5	1800	East and West
Stuart	221.7 229.3	1210 2500	East and West West
San Diego G. & E. Co. Spur	231.3	1005	East
Solana Beach	241.9	436	East

Esc	ondido Districi	·	
Talica		1347 927	East and West West

Location	LENGTHS OF STEMS OF WYES	Feet
Irvine	Olive Dist, Main Ti	000
Escondido Jct		rack
Miramar		719 Sour
National City		219

TRACK SIDE		DEVICES—SPECIAL R h District	ULE	7
	rouri	n District		
T		Signale Affected		

Location	Туре	Signals Affected
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 west- ward Control Signal located M.P. 209.2
Bridge 246.9	Highwater	Eastward Signal 2462 and west- ward Control Signal M.P. 248.8
	Olive D	District
Bridge 1.6	Highwater	Westward Control Signal

movement.

Atwood governing movement from Third District to Olive District and Signal 22 for eastward

12 FOURTH, OLIVE AND ESCONDIDO DISTRICTS

LOS ANGELES DIVISION

			V	WESTWARD) 						
			FI	RST CLAS	SS				TIME TABLE		
83	85	81	79	77	75	73	71	ade Mile Mile	NO. 13 April 25, 1982		of Sidings
Leave Daily	Leave Sat. Sun. & "Hol. Onfy	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily Except Sat. Sun. & *Hol.	Ruling Grade Descending— Feet Per Mile	STATIONS	Mile Post	Capacity (
								26.4	NATIONAL CITY YL	273.1	Yard
-P M	- 	—рм—	- 	PM	—A M—	AM_	. _AM=	0.0	22ND STREET YL	269.3	
7.40	6.10	4.20	3.00	12.10	8.50	7.00	5.15	0.0	SAN DIEGO YL)	267.5	Yard
7.47	6.17	4.27	3.07	12.17	8.57	7.07	5.22	31.0	- (3.3 } - (3.3 } - (3.3 } - (3.3 } - (3.3 } - (3.3 } - (3.3 } - (3.3 } - (} - (} - (264.2	
	-	<u>:-</u> -	-					51.7	ELVIRA) ~	257.9	
	1	ļ	-	-			·	0.0	MIRAMAR S	253.0	
			-	- 	-	ļ —		116.2	SORRENTO "	249.1	4877
8.13	s 6.40	s 4.50	s 3.30	s 12.40	s 9.20	s 7.30	8 5.45	58.1	DEL MAR	244.0	
			-					63.4	ENCINITAS	238.1	
		1				·		63.4	PONTO	233.8	5333
	·							64.4	ESCONDIDO JCT.	227.2	
8.33	s 7.03	s 5.10	9 3.53	s 1.00	s 9.40	s 7.49	8 .6.04	15.8	OCEANSIDE	226.2	6096
								85.5	FALLBROOK JCT.	224.1	4569
-								l I	SAN ONDFRE	209.2	4927
_		s 5.30	s 4.13				<u> </u>	58.1 26.5	SAN CLEMENTE	204.8	
									SERRA	199.8	4956
9.03	s 7.33			s 1.32	s 10.12	s 8.18	s 6.33	0.0	SAN JUAN CAPISTRAND	197.2	
								73.9	4.6 GALIVAN 	192.6	4972
							.	70.2	EL TORO	188.1	
							<u> </u>	63.4	VALENCIA	182.9	5982
								0.0	1RVINE > =	178.5	
9.25	s 7.55	s 6.03	a 4.45	s 1.53	s 10.32	s 8.40	s 6.55	14.3	SANTA ANA	175.5	6048
						<u> </u>	.	39.2	ORANGE 4,8	172.6	6250
								.	S. P. Crossing Anaheim	167.8	3044
9.45 PM	s 8.15 PM	s 6.25 PM	s 5.05 PM	s 2.15 PM	s 10.55 AM	a 9.00 AM	s 7.15 AM	16.9		165.0	
Arrive Daily	Arrive Sat. Sun. & *Hol. Only	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily Except Sat. Sun. & *Hol.		(107.8)		

OTIVE	DISTRICT

WESTWARD	Ruling Grade Descending— Feet Per Mile	TIME TABLE NO. 13 April 25, 1982 STATIONS	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	EASTWARD
	42.2	ATWOOD OLIVE	0.0	0.0	Y-B	Yard	
	42.2	S. P. Crossing 3.4 ORANGE	2.4 5.8	0.0		3280	
		(5.8)				_	

ESCONDIDO DISTRICT

Westward					Ì		Eastward
· ¥	# 7:≣	TIME TABLE NO. 13		육기를	ations S	of Sidings	1
↓	Ruling Grade Descending— Feet Per Mila	April 25, 1982	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity o	Á
	Fee	STATIONS	æ	585	255	<u>5</u> =	
		ESCONDIDO	21.1	01.0	Y	1376	
	95.0 116.2	SAN MARCOS	16.2	91.3 116.2		866	
	116.2	VISTA 9.2	9.2	116.2		1811	
		ESCONDIDO JOT. YL	0.0		Y		
	Ī	(21.1)			-		

TCS in effect on main track between Atwood and Orange.

Rule 93: Yard limits at Escondido Jct.

LOS ANGELES DIVISION

							EASTV	VARD				
	TIME TABLE						FIRST	CLASS				
	NO. 13			of Sidings	70	74	70	70	80		00	04
	April 25, 1982	ŧ	3 1 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	of Si	72	74	76	78	80	82	88	84
	STATIONS	Mile Post	Ruling Grade Descending— Feet Per Mile	Capacity (In Feet	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	273.1	24,3	Yard		.						
	22ND STREET YL	269.3	22.7		—A M	РМ	PM	рм	-PM-	—РМ-	<u> </u> _ РМ_	РМ-
A B S		267.5		Yard	8 10.45	s 12.35	s 2.40	s 4.35	s 7.45	s 8.40	s 9.20	g 11.05
]	OLD TOWN YL	264.2	52.8		10.27	12.16	2.21	4.16	7.26	8.21	9.01	10.44
	ELVIRA ~	257.9	65.5 113.5			PM		<u> </u>			<u>-</u>	
	MIRAMAR	253.0	0.0]						
	SORRENTO 5.0	249.1	56.0	4877	<u> </u>							_
	DEL MAR	244.0	52.8		s 10.06	s 11.53	s 2.00	s 3.55	s 7.05	s 8.00	в 8.41	s 10.23
	ENCINITAS 4.2	238.1	63.4			<u> </u>		.				
	PONTO 6.5	233.8	69.7	5333				.				_
	ESCONDIDO JCT.	227.2	7.4								0.10	
	OCEANSIDE 2.1	226.2	64.9	6096	9.46	e 11.33	s 1.40	s 3.32	s 6.45	s 7.40	s 8.18	<u> 10.03</u>
S S	FALLBROOK JCT.	224.1	64.9	4569		<u> -</u>		.			<u> </u>	-
_ _ 4	SAN ONOFRE	209.2	26.4	4927								-
- -	SAN CLEMENTE 5.0	204.8	26.4			s 11.12	5 1.17	· <u></u>	.			-
Ш	SERRA 	199.8	60.5	4956							7.40	- 0.00
.	SAN JUAN CAPISTRANO	197.2	65.5		s 9.12	· -	l	s 3.02	s 6.11	s 7.06	s 7.48	- s '9.33
Ш	GALIVAN 4.5	192.6	67.3	4972		<u> </u>		<u> </u>				-
$ \cdot $	EL TÓRO 5.2	188.1	0.0	<u> </u>				·				-1
	VALENCIA 4.4	182.9	22.0	5982			·	·		l		-
.	SANTA ANA	178.5	38.5					ļ——		·	<u> </u>	-
		175.5	20.0	6048	s 8.52	8 10.44	s 12.47	s 2.42	s 5.52	s 6.47	s 7.27	8 9.12
	ORANGE	172.6	32.6 29.6	6250								
	S. P. Crossing ANAHEIM	167.8		3044								_
	2.8	165.0	22.7		8.35 AM	10.25 AM	12.30 PM	2.25 PM	5.35 PM	6.30 PM	7.10 PM	8.55 PM
_	(107.8)				Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Dally	Leave Daily Except Sat, Sun. & *Hol.	Leave Sat. Sun. & *Hol. Only	Leave Daily

^{*} Day of Traditional Observance: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

14 HARBOR AND REDONDO DISTRICTS

LOS ANGELES DIVISION

WESTWARD		TIME TABLE			, .		EASTWAR
					₩ye	5	
♥	. I e	NO. 13		a. 1.22	tions	Sidi	ĺ
↓	Ruling Grade Oescending— Feet Per Mile	April 25, 1982	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	
	Red Des Fee	STATIONS	Ψ	≅ 888	97	2 5	
	414	REDONDO JCT. YL	0.0	19.1	R-Y		
	61.4	MALABAR YL	1,5	22.7		Yard	
	37.0	S. P. Crossing NADEAU YL S. P. Crossing	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	В	4962	
	79.2	S. P. Crossing EL SEGUNDO YL	14.8	79.2	Y		
	52.6	LAWNDALE YL	16.6	51.1		Yard	
	52.3	ALOOA YL	20.1	58.4		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	C-R-Y	Yaró	
		WILMINGTON YL	28.0		B	Yard	
		PIER A YARD YL				Yard	
		WEST THENARD S. P. Crossing YL					
		LONG BEACH YL					
		(28.0)					

REDONDO DISTRICT

WESTWARD		TIME TABLE					EASTWARD
	ing Grade scending— it Per Mile	TIME TABLE NO. 13 April 25, 1982	e Post	ing Grade scending— it Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	1
	Pelin Descr Feet	STATIONS	Ë	Rulin Desce Feet	SEE	2 =	
		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				
	02.6	EL SEGUNDO YL	14.8	49.6	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	Туре
Redondo Junction	U.P. Crossing	TCS
Nadeau	S.P. Crossing	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 Automatic interlocking, 321(C)
West Thenard	S.P. Crossing	Automatic interlocking, 321(C)

	MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS	мрн
D	HARBOR DIST.	20
	Alcoa Spur	15
	SPEED RESTRICTIONS	
	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.	15
_	Trains and engines will reduce speed to 5 MPH 250 feet in advance and engine occupies the following crossings: Rosecrans Avenue—M.P. 15.5 Pacific Avenue—M.P. 16.2	until

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 Juction 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:

Fifteenth Street-M.P. 16.8

Pier Avenue—M.P. 18.7

Manhattan Beach Boulevard-M.P. 17.1

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 mus* 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 Fé rules apply.

Normal position of switches of crossover located 100 feet west of Avalon Blvd. is lined for crossover movement.

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.

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 C	OF WYES Feet
Redondo Junction	Harbor Dist. Main Track
El Segundo	Redondo Dist. Main Track
Watson	
Normal position of junctio	n switches
El Segundo for Harbor	District.

SAN JACINTO DISTRICT							
WESTWARD		TIME TABLE				E.	EASTWARI
¥	ا ه	NO. 13		l	tions	Siding	↑
-	Ruling Grade Descending— Feet Per Mile	April 25, 1982	Mile Past	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	
	Ruli Des Feel	STATIONS	Mile	Pes	Turi and	E C	
		HIGHGROVE YL S. P. Crossing	0.0	116.2		1018	
_	0.0	BOX SPRINGS YL	7.2] -		1555	
	52.8	MARCH FIELD	9.6	31.4	В		
	17.6	ALESSANDRO	10.6	0.0		2046	
	47.5	VAL VERDE	13.5	0.0	Y	1105	
	28.6	PERRIS	18.3	9.5		Yard	
	63.4	ETHANAC	22.7	21.6		1030	
	42.2	WINCHESTER	28.9	49.3		1570	
	0.0	HEMET YL	36.0	52.8	В	Yard	
-	63.4	SAN JACINTO YL	38.3	4.3	Y	Yard	
	<u></u>	(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
SPEED RESTRICTIONS	_
Highgrove to Box Springs	. 20
Curve M.P. 18 to 19.2	
M.P. 34.8 to 35.7	. 15
M.P. 35.7 to San Jacinto	

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.

RAILROAD CROSSING AT GRADE

Location	Tracks Governed	Туре
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
Vai 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:

Divisions not electricany locked.	
NEEDLES DISTRICT:	FOURTH DISTRICT:
M.P. 737.7 - South Track	M.P. 168.9 - Anaheim
FIRST DISTRICT:	M.P. 169.2 - Anaheim M.P. 171.4 - Orange
M.P. 59.3x - North Track	M.P. 221.4 - Stuart
M.P. 66.3 - North Track	M.P. 221.7 - Stuart
M.P. 75.0 - South Track	M.P. 234.2 - Ponto Siding
M.P. 76.7 - South Track	M.P. 237.9 - Encinitas
M.P. 79.9 - North Track	M.P. 238.3 - Encinitas
THIRD DISTRICT:	M.P. 241.8 - Solana Beach M.P. 242.1 - Solana Beach
M.P. 7.3 - North Track	M.P. 243.3 - Del Mar
M.P. 7.4 - North Track	M.P. 248.3 - Sorrento
M.P. 7.5 - South Track	M.P. 258.6 - Main Track
M.P. 7.7 South Track	M.P. 258.8 - Main Track
M.P. 8.6 - South Track	M.P. 260.2 - Pacific Beach
M.P. 8.9 - South Track	M.P. 260.4 - Pacific Beach
M.P. 8.91 - South Track M.P. 16.7 - Arlington	M.P. 263.2 - Main 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, ICLIC 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

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

OLIVE DISTRICT:

M.P. 0.6 - Atwood M.P. 0.8 - Atwood

M.P. O.8 - 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

- **4.** Rule 80: Bulletin books are located at Needles, parker, Blythe, Barstow, Victorville, San Bernardino, Kaiser, Riverside, Fullerton, Pico Rivera, Union Station, Redondo Juction, 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.

HOT BOX AND DRAGGING EQUIPMENT DETECTORS

Abnormal heat from hot wheels (sticking brakes), overheated journals, traction motor suspension bearings will actuate detectors, and dragging equipment will also actuate detectors at locations so equipped. When a train is stopped by detector, Form 1572 standard must be filed at first office of communication.

LOCATOR TYPE

When actuated, a rotating white light will illuminate at detector (scanner) and locator locations, and the train must stop with head end at locator, if possible, observe readout and comply with instructions in locator cabinet.

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

equipmen

When track side indicator is illuminated before the train reaches scanner, stop must be made and locator observed, unless otherwise instructed by train dispatcher. If any lamps in locator cabinet are lighted, be governed by above instructions. If no lamps are lighted, the train may proceed at prescribed speed and must be observed closely en route.

Radio Readout (Reporter Type)

Preceeding any voice transmission, the following identification will be heard: "SANTA FE RAILROAD (Station and State) NORTH OR SOUTH TRACK"

As train approaches scanner, this transmission will indicate the system is operational. After the train passes scanner, if no defects, reporter will announce "NO DEFECTS". When actuated, a rotating white light will be displayed 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 beyond detector.

After passing detector and the tone stops, the following will be heard twice if train has two hot boxes and one dragging equipment defect.

"First hot box, right side, one seven eight"
 "Second hot box, left side, one four three"

C. "First dragging equipment, near axle zero six eight"

If two trains are involved, reports will alternate until each have been reported twice. The detector will store up to three hot boxes and dragging equipment defects. If three of either type are reported, the remainder of train must be inspected for additional defects.

The left or right mentioned is determined by facing direction train is moving. Reference to location of defective equipment will be from the rear of the train.

If, when approaching, detector "Integrity Failure" is heard and rotating white light is illuminated before train reaches scanner, it will indicate that system is not operational, however, the audible tone and message could still be transmitted. If no additional alarm is heard, train must be stopped and inspected unless otherwise instructed by the train dispatcher.

If, after head end of train passes detector the white rotating light becomes illuminated and no audible tone or message transmitted, train must be stopped and entire train inspected for defects.

INSTRUCTIONS FOR ALL TYPES DETECTORS

If defect is not found on equipment indicated, close inspection must be made on three cars (or units) on either side of indicated equipment.

On inspections required, give particular attention to heat of journals and hub of wheels. If nothing found wrong, train may proceed at prescribed speed, but must make two stops within next 60 miles at approximately 30 mile intervals for thorough inspection of train, unless train passes an intervening hot box detector or train is delivered to terminal where mechanical inspection is made. At crew change points where mechanical inspections are not made, inbound crew will inform relieving crew of existing condition.

When suspected journal on freight equipment indicated by locator is a roller bearing journal, the car must be set out unless cause found to be sticking brakes

and condition corrected.

Trains must not exceed speed of 30 MPH while moving over hot box 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 chasis) 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

	Forward	When not
	or dead	controlled
F1	in	from
Engines	train	leading unit
AMTRAK 100-761, 764-799	MPH	MPH
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

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 Verdemont 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.

liction and Foliettor

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.

Diesels without dynamic brakes in use	Ash Hil Goffs-N Summit Summit

	Light Forward
Ash Hill-Bagdad Goffs-Needles Summit to Victorville. Summit-Cajon Cajon-San Bernardino	24 24 30 15 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 AT-199454 AT-199455 AT-199457 AT-199459 AT-199450 AT-199461 AT-199462 AT-199462 AT-199462 AT-199463 AT-199463 AT-199463 AT-199464 AT-199464 AT-199465 AT-199465 AT-199464	Pile Drivers AT-199452 AT-199453 AT-199456 Locomotive Crane AT-199720 Other Machines M.P.H.
Needles, Cadiz, First, Second,		: <u></u>	
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
1215	EMD	SSB1200	246,000	36,000	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	1 <i>75</i> 0
2417	EMD	GF7	249,000	41,300	1500
2700	EMD	GP30	262,900	50,064	2250
2800	EMD	GP35	266,000	43,850	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
3669	EMD	GP39-2	264,000	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
51 <i>7</i> 0	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	3600
5490	EMD	SD45	391,886	72,286	3600
5500	EMD	SD45	391,500	72,286	3600
5590	EMD	SD45	391,500	72,290	3600
5615	EMD	SD45	391,500	68,440	3600
5625	EMD	SD45-2	395,500	73,650	3600
5662	EMD	SD45-2	391,500	73,650	3600
5705	EMD	SD45-2	391,500	68,440	3600
5900	EMD	F45	395,000	72,290	3600
5940	EMD	FP45	399,000	68,006	3600
5950	EMD	SDFP45	395,500	72,290	3600
5990	EMD	SDPF45	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	91,500	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

HAZARDOUS MATERIAL

1. 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

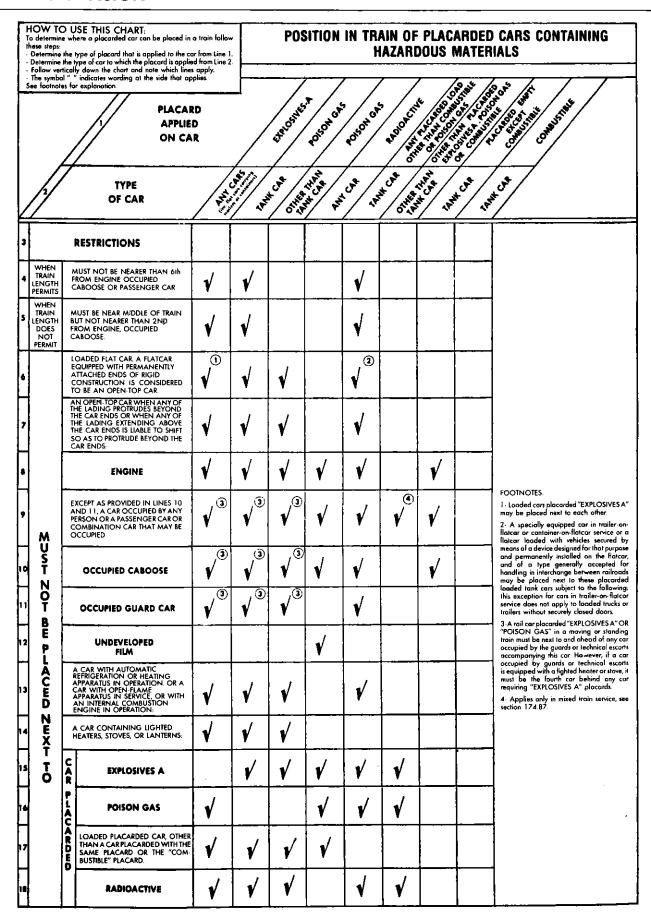
Certain cars, trailers, and containers loaded with hazardous materials are required to be placarded. Certain empty tank cars which last contained a hazardous material are required to be placarded.

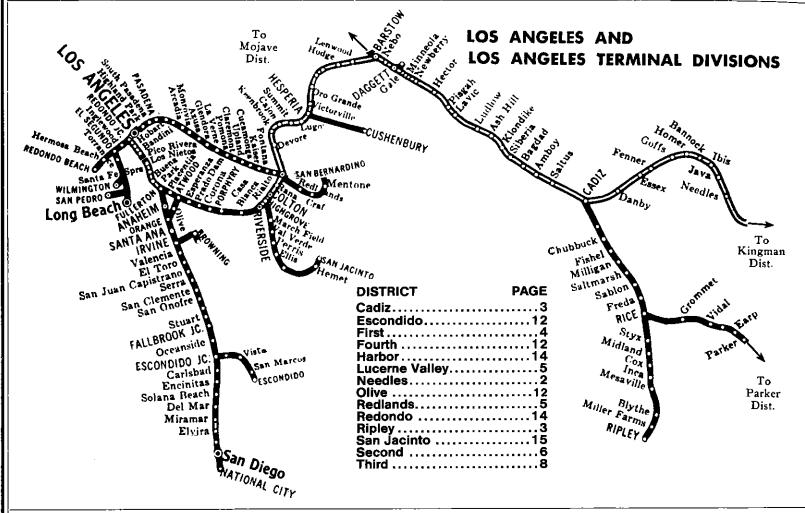
Commodity CodesThe commodity code will be shown on the waybill and the wheel report. Commodity codes starting with "49" indicate a hazardous material.

- 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.





FREIGHT TRAIN SCHEDULE (For Information Only) WESTWARD

Trains	Needles	Bars	tow	San Bernardino		Hobart
	Ly.	Arr.	ĺγ.	Arr.	Lv.	Arr.
168	9:35A	1:15P	2:00P	4:45P	5:00P	B: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			
288	12:50P	4:50P	6:10P	9:20P	9:30P	11:30F
308	9:55P	1:55A	3:15A	6:25A	6:40A	9:10A
348	4:25A	8:45A	<u> </u>	ĺ	ĺ	İ
408	5:10A	9:40A				
508	6:15A	11:25A				
568	8:45A	2:30P				
309	6:35P	10:35P	8:45A			
588	6:10P	10:10P	11:30P	2:10A	2:20A	4:30A
668	3:10P	6:50P	7:35P	10:05P	10:15P	11:59P
678	11:45A	4:45P		<u> </u>		
818			12:01A	3:30A	3:45A	6:00A
838			9:00P	2:00A	3:00A	7:00A
858			12:01A	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 Ar, Barstow		3254	Lv. Los Angeles Ar, San Diego	7:30P 12:40A
807 Lv. Barstow Ar. Parker	10:00A 4:00P	3253	Lv. San Diego Ar. Los Angeles	12:40A 5:50A
5798 YK Coal 5788 Coal Mtys		3251	Lv. San Bernardino Ar. San Diego	5:30P 10:30P
		3252	Lv. San Diego	11.30P 4:30A

FREIGHT TRAIN SCHEDULE (For Information Only) FASTWARD

Trains	Hobart	San Bernardino		Bars	Needles	
	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		
B11	9:00P	71:40P	12:10A	3.05A	4:05A	8:10A
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: 0 0A
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		Ī		11:45P	2:15A	7:45A
975	i			9:30P	12:01P	4:20P
981			1	11.40A	1:00P	4:50P
991				3:45P	4:15P	7:15P

SPEED TABLE-FOR INFORMATION ONLY

Time Per Mile Min. Sec.	Miles Per Hour	M	Per ile Sec.	Miles Per Hour	M	e Per ile Sec.	Miles Per Hour
36 37 38 39 40 41 42 43 44 45 45 46 47 50 51 52 53	100 97.3 94.7 92.3 90.0 87.8 85.7 83.7 81.8 80.0 75.0 70.6 67.5 67.9 66.6 65.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	58 59 02 04 06 08 10 12 14 16 18 20 22 24 26 30 33 34	62.1 61.0 60.0 58.2 56.2 54.5 52.9 47.4 46.1 45.9 41.9 41.9 41.9 40.0 39.1 38.3	1 1 1 1 1 1 2 2 2 2 2 2 3 3 4 5	40 42 44 46 48 50 52 54 55 56 58 10 15 30 45 30	36.0 35.3 34.6 34.0 33.3 32.7 32.1 31.6 31.0 30.5 28.8 27.7 26.7 24.0 21.8 20.0 17.1 15.0
56 57	64.2 63.2		36 38	37.5 36.8	12	٠.	10.0 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.