

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

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LOS ANGELES DIVISION
W. H. LAWSON, Trainmaster Needles, Calif.
B. T. JOHNSTON, Road Foreman of Engines Needles, Calif.
G. R. DERKSEN, Rules Examiner Barstow, Calif.
P. J. DE WOLF, Trainmaster
D. J. McDOUGAL, Trainmaster
N. C. ORFALL, Asst. Trainmaster Barstow, Calif.
J. M. TAYLOR, Asst. TrainmasterBarstow, Calif.
M. J. WOOD, Asst. TrainmasterBarstow, Calif.
L, D. BURT, Asst. Trainmaster Barstow, Calif.
J. C. TOLSON, Road Foreman of Engines Barstow, Calif.
T. G. CORBIN, Safety SupervisorBarstow, Calif.
B. J. HEATH, TrainmasterSan Bernardino, Calif.
G. C. DADO, Trainmaster San Bernardino, Calif.
G. S. PATTERSON, Asst. TrainmasterSan Bernardino, Calif.
L. D. JONES, Asst. Trainmaster San Bernardino, Calif.
J. P. HERNDON, Road Foreman of Engines
San Bernardino, Calif.
S. R. GRISWOLD, Asst. Trainmaster AgentKaiser, Calif.
L. B. HARTMAN, Safety Supervisor San Bernardino, Calif.
R. D. HARPER, Rules ExaminerFullerton, Calif.
J. L. SCHROEDER, Trainmaster Fullerton, Calif.
A. M. BATY, Asst. TrainmasterFullerton, Calif.
C. F. LILLEY, TrainmasterSan Diego, Calif.
LOS ANGELES TERMINAL DIVISION
J. M. WATKINS, TrainmasterLos Angeles, Calif.
W. E. ADAMS, Trainmaster Los Angeles, Calif.
D. E. BEAUCHAMP, TrainmasterLos Angeles, Calif.
P. V. NASH, TrainmasterLos Angeles, Calif.
C. K. SEAMAN, Asst. TrainmasterLos Angeles, Calif.
G. SEFCIK, Asst. TrainmasterLos Angeles, Calif.
R. P. GARCIA, Asst. TrainmasterLos Angeles, Calif.
J. D. LUSK, Asst. TrainmasterLos Angeles, Calif.
G. J. BUHLER, Asst. Trainmaster Agent Long Beach, Calif.
W. G. BOYER, Safety SupervisorLos Angeles, Calif.
G. D. CASSIDY, Road Foreman of Engines . Los Angeles, Calif.
COAST LINES
J. E. THORNTON, Supervisor of Air Brakes and General
Road Foreman of EnginesLos Angeles, Calif.
A. C. HENDERSON, Road Foreman of Engines (AMTRAK)
Los Angeles, Calif.
CHIEF TRAIN DISPATCHER'S OFFICE-SAN BERNARDINO

CHIEF TRAIN DISPATCHER'S OFFICE

D. F. HODGES, Chief Dispatcher

ASST. CHIEF DISPATCHERS

G. A. WOLLERTON - W. E. EBERT - E. M. BUTLER T. H. ESHELMAN - K. W. JURE

TRAIN DISPATCHERS

	1111 1111 2 101 1 11 2 11	
A. C. KIDD	H. F. BROWN	R. E. TIEDEMAN
C. W. BURTON	D. R. MUNDAY	G. L. ADAMS
L. A. WRIGHT	J. T. WALSH	J. M. BIERD
E. M. ELLIS	D. E. PRYOR	E. W. TERRY
N. C. PECK	L. D. FAST	

The Atchison, Topeka and Santa Fe Railway Co.



LOS ANGELES AND LOS ANGELES TERMINAL **DIVISIONS**

TIME TABLE No.



IN EFFECT

Tuesday, February 15, 1977

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.

R. L. BANION

J. G. FRY

R. T. DENNISON

Asst. General Managers LOS ANGELES, CALIF.

E. L. KIDD Superintendent SAN BERNARDINO, CALIF.

L. D. EIDSON Superintendent LOS ANGELES, CALIF.

J. R. MERRITT Terminal Superintendent BARSTOW, CALIF.

2 NEEDLES, CADIZ AND RIPLEY DISTRICTS

LOS ANGELES DIVISION

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS NEEDLES DISTRICT SOUTH TRACK

Location	Psgr. and Light	Freight		
Barstow to Pisgah	. 90	60		
Pisgah to Bagdad		60		
Bagdad to M.P. 646.1	. 90	60		
M.P. 646.1 to Goffs		60		
Goffs to Needles		50		
4 Curves M.P. 747.0 to 745.0	50	50		
Curve M.P. 745.0 to 743.8		60		
5 Curves M.P. 710.6 to 707.8	. 70	60		
Curve M.P. 702.0 to 701.5		50		
7 Curves M.P. 701.5 to 696.2	. 70	60		
2 Curves M.P. 696.2 to 694.9		60		
4 Curves M.P. 694.9 to 693.6	. 50	50		
4 Curves M.P. 693.6 to 688.9	. 70	60		
Curve M.P. 688.9 to 688.4		60		
2 Curves M.P. 688.4 to 686.2	. 70	60		
2 Curves and Grade M.P. 686.2 to 683.4	70	45		
2 Curves and Grade M.P. 683.4 to 680.7X	50	45		
2 Curves and Grade M.P. 680.7X to 677.8	65	45		
10 Curves and Grade M.P. 677.8 to 671.4	. 70	45		
3 Curves M.P. 631.0 to 628.7		60		
10 Curves M.P. 625.5 to 613.8	65	60		
6 Curves M.P. 613.8 to 609.1	75	60		
2 Curves M.P. 609.1 to 608.4		50		
9 Curves M.P. 599.1 to 589.1	70	50		
6 Curves M.P. 589.1 to 587.0		50		
14 Curves M.P. 587.0 to 578.1	55	50		
"H" St. Crossing M.P. 578.1		15		

NEEDLES DISTRICT NORTH TRACK

Needles to Gotts	79	60
Goffs to Bagdad	90	60
Bagdad to Pisgah	79	60
Pisgah to Barstow	90	60
"H" St. Crossing M.P. 578.1	15	15
Needles Freight Lead M.P. 578.4 to 580.3 ,	30	30
23 Curves M.P. 578.1 to 589.3	50	50
3 Curves M.P. 589.3 to 593.3	60	60
Curve M.P. 593.3 to 593.8	40	40
11 Curves M.P. 593.8 to 603.3 , ,	60	60
2 Curves M.P. 608.3 to 609.1	70	60
2 Curves M.P. 670.5 to 672.1	70	60
10 Curves M.P. 672.1 to 678.1	55	55
2 Curves M.P. 678.1 to 680.3	40	40
7 Curves M.P. 680.3 to 686.2	50	50
2 Curves M.P. 688.4 to 689.5	60	60
Curve M.P. 692.9 to 693.7	65	60
4 Curves M.P. 693.7 to 695.0	50	50
10 Curves M.P. 695.0 to 702.0	60	60
5 Curves M.P. 707.8 to 710.6	70	60
Curve M.P. 743.8 to 745.0	80	60
4 Curves M.P. 745.0 to 747.0	50	50

Cadiz District				
Cadiz District	49			
Bridge & Curve M.P. 106.8 to 107.3	30			
Track M.P. 107,3 to 118.9	40			
M.P. 154 to 158				
Curve M.P. 165.2 to 165.6				
Curve M.P. 183.0 to 183.2				
Curve M.P. 190.0 to 190.3	10			

Ripley District

Blythe to Ripley	. 20
2 Curves M.P. 0.0 to M.P. 1.0 M.P. 1.0 to M.P. 6.0	15
3 Curves M.P. 14.6 to 15.2	
4 Curves M.P. 16.7 to 17.7	. 30

Westward							Eastwar
First			TIME TABLE		-		First
Class	dings		NO. 5			dings	Class
3	Capacity of Sidings In Feet	Ruling Grade Descending— Feet Per Mile	February 15, 1977	Mile Post	Ruling Grade Descending— Feet Per Mile	Capacity of Sidings In Feet	4
Leave Daily	Cap; In F	Ruli Desc Feet	STATIONS	Mile	Rulir Desc Feet	Capa III F	Arrive Daily
AM 2.05	Yard		NEEDLES YL)	578.0		Yard	s 2,30
2.15	5317	0.0	No. 7.5—So. 7.4— JAVA	585.6	79.2		
2.23	7329	0.0	IBIS	592.4	79.2		
2.30	5418	0.0		597.0	104.5		
2.36	6716	0.0	HOMER	601.5	73.9	<u> </u>	 -
2.47	7318	21.1	7.5	609.1	73.9	7254	1.4
2,54	5454	59.1	FENNER	618.7	0.0		
		57.0	ESSEX	626.2	0.0	5369	1.30
3.05	5383	57.0	DANBY	634.7	0.0	5841	1.2
3.15	7328	52.8	TADIZ	648.1	0.0	9292	1.1
3.24	5296	53.8	AMBOY	661.5	29.0	5406	1.0
3.30		11.6	BAGDAD	669.3	35.9	5022	12.55
3.38	6746	0.0	SIBERIA	676.7	76.0		
3,52	5414	0,0	No. 9.5	686.7	121.4	7113	12.39
4.14	6605	54.4	PISG AH	706.6	57.0	6682	12.2
4.30	7352	55.4	NEWBERRY	725.6	16.4	5363	12.06
4.40		13.7	DAGGETT	737.6	40.6		AM
5.05 AM	Yard	43.3	BARSTOW BARSTOW	746.4	31.7	Yard	11.5 11.5 PM
Arrive Daily			NORTH (168.7) (166.0) SOUTH				Leave Daily
(56.2)			Average speed per hour			_	(62.2)

SWITCHES-MAXIMUM AUTHORIZED SPEED

Maximum speed permitted through all yard and roundhouse turnouts and crossovers—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 M.P. 580.3 crossover main tracks	30 50 50
Daggett	Two main track crossovers Turnout to Union Pacific main track	50 30
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. 745.8 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	20

BARSTOW YARD

Maximum Speed Through Following Power Switches: EE and WE Inspection Yard Tracks 1-2 and 1-3	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
(Continued on Page 3)	

Rule 97(A): 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 94 in effect:

At Needles, between train signs at east and west end passenger yard.

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. 5 February 15, 19	77	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	
	Fee	STATIONS		¥	Tee Yes		E Ca	
		PARKER	YL	105.8		С	Yard	
·	29.6 21.1	VIDAL 20.4		120.0	31.7 30.6		880	
		RICE	YL	140.4	90.6	B-Y	2471	
-	25.3	FREDA	YL	144.0	0.0		1500	
	30.6 31.7	7.0 SABLON 18.2		151.0	0.0 29.6		2846	
	31.7	FISHEL 21.3		169.2	29.6		4949	
		CADIZ	YL	190.5		B-Y	3500	
		(84.7)						

Trains must get clearance card before leaving Parker.

Rule 93: Yard limits located at Cadiz (Cadiz District only), Milligan, Freda to Rice, inclusive 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. 5	77	e Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	A
	Rul Des Fee	STATIONS		Mile	Rul Des Fee	Tur	25	
	42.8	RIPLEY	YL	49.4	21.7			
	10.6	BLYTHE 25.5	YL	42.0	83.4	C-R-Y	Yard	
	83.4	STYX	YI.	16.5	65.0		526	
		RICE	YL	0.0		B-Y	2471	
		(49.4)						

Rule 93: Yard limits Ripley to Rice, inclusive.

TRACK S	IDE WAI	RNING D	DEVICES	SPECIAL	RULE	7
		Needles	s District			

Location	Туре	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. 626.3)
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. 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
Bridge 186.6	Highwater	Rotating white 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

Rotating white 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

	iteedies b	1311161	
Location	Mile Post	Capacity in Feet	Switch Connection
Saltus	658.4	2590	East and West
Klondike	682.0	600	West
Ludlow	693.2	2491	East
Ludlow	693.6	1512	West
Lavic	702.7	500	East
Hector	71 2.8	800	East and West
Minneola	731 <i>.7</i>	800	West
Airport Spur	732.6	9048	East
Gale	735.3	600	East
Cool Water	735.9	558	West
Nebo	741.6	3591	East and West
	Cadiz Di	strict	
Earp	107.3	534	West
Grommet	131.6	500	East
Milligan	164.0		
Dist	163.9	1711	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	1100	East
Inca	22.6	1512	East and West
Mesaville	33.0	472	West
Riverview 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
Ash Hill		410
Barstow		District
Rice		District
	. ,	

4 FIRST DISTRICT

LOS ANGELES DIVISION

MAXIMUM AUTHORIZED DISTRICT SPEED FO	R TRAI	NS
First District Westward Movements Both T		АРН
LOCATION	sgr. and Light	Freight
Barstow to San Bernardino	79 15	60 15
2 Curves M.P. 746.4 to 747.0	50	50
2 Curves M.P. 747.0 to 4.6	70	60
2 Curves M.P. 31.8 to 33.8	60	60
2 Curves M.P. 33.8 to 34.3	40	40
3 Curves M.P. 34.3 to 36.6	55	55
Victorville M.P. 36.6 to 37.4	30	30
4 Curves M.P. 37.4 to 39.9	45	45
3 Curves M.P, 39.9 to 42.0	50	50
Curve M.P. 42.0 to 43.7	55	- 55
Curve M.P. 48.1 to 48.8	65	60
Curve M.P. 48.8 to 49.4	50	50
8 Curves M.P. 49.4 to 51.8	45	45
8 Curves M.P. 51.8 to 56.1	55	55
Curve M.P. 56.1 to 56.6	45	45
Grade (South Track) M.P. 56.6 to 62.2	30	20
Grade (North Track) M.P. 56.6 to 64.3X	30	30
Grade M.P. 62.2 to 72.6	40	35
Grade M.P. 72.6 to 80.8	50	35
M.P. 80.8 to 81.5	20	20
Helper locomotives at or near rear of train may use a Summit to San Bernardino	dynamic	brakes:

Westward First Class	rade ing	TIME TABLE NO. 5 February 15, 1977	1 15	rade ing- Mile	Capacity of Sidings In Feet	Eastward First Class
Leave Daily	Ruling Grade Descending— Feet Per Mile	STATIONS	Mile Post	Ruing Grade Descending— Feet Per Mile	Capacity In Feet	Arrive Daily
AM 5.15		(BARSTOW)	746.4		Yard	РМ s11.40
	0.0	LENWOOD	6.7	41.0		
	35.9	HODGE	13.6	37.0	1	
	37.0	ORO GRANDE	31.5	37.0	Yard	<u> </u>
	12.7	5.2		37.0		
	0.0	VICTORVILLE	36.7	15.8	Yard	
		FROST 7.1	38.0	83.4	ļ	
		FROST 7.1- HESPERIA	45.1	81.8	Yard	
	0.0	LUGO	50.1			
	0.0	SUMMIT	55.9	84.5		
-	n116.2 s158.4	No. 8.9 — So. 6.9 ——————————————————————————————————	62.8	0.0		<u> </u>
	116.2	VERDEMONT	73.9	0.0		
	116.2			0.0		
s 7.05		san bernardino	81.3		Yard	9.42 PM
Arrive Daily		South Track (81.3) North Track (83.3)				Leave Daily
(44.1)		Average speed per hour	•			(42.1)

Rule 97(A): 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-!, item 4.

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

Trailing movements, spring point derails:	MPH
Adelanto Spur, one-fourth mile from main track	10

Maximum speed permitted through all yard and roundhouse turnouts and crossovers—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
Frost	Two crossovers	. 50
Lugo	Two crossovers	. 50
Summit	Two crossovers	. 50
Cajon	Two crossovers	. 50
Verdemont	Two crossovers	. 50

RULE 956—THE USE OF RETAINERS AND SPEED RESTRICTIONS ON FREIGHT TRAINS SUMMIT TO SAN BERNARDING, WILL BE AS FOLLOWS:

- 1. Trains must not exceed an average of 115 tons per car, except unit trains with helper locomotive at or near rear of train must not exceed an average of 135 tons per car.
- 2. Between Summit and Cajon on South Track speed limit 15 MPH, except: When total brake pipe reduction does not exceed 18 lbs., average weight per car does not exceed 95 tons and total weight does not exceed 4500 tons, speed limit 20 MPH.
- (A) Between Summit and Cajon, North Track and between Cajon and San Bernardino on both tracks, speed limit 20 MPH, except: When average weight per car does not exceed 95 tons and total weight does not exceed 6500 tons, speed limit 30 MPH.
- (B) Between Cajon and San Bernardino, both tracks, when total weight does not exceed 5000 tons and dynamic brake will control speed of train, without the use of air brakes speed limit 35 MPH.
- (C) Trains operated with "Remote Control Equipment" in service and trains with helper at or near rear of train, between Summit and Cajon North Track and between Cajon and San Bernardino both tracks, speed limit 20 MPH except: When total brake pipe reduction does not exceed 15 lbs., speed limit 30 MPH; When tonnage exceeds 6500 tons, speed limit 25 MPH; When tonnage exceeds 12,000 tons, speed limit 20 MPH.
- 3. On both tracks, between Summit and Cajon when total weight exceeds 3500 tons and between Cajon and San Bernardino when total weight exceeds 5000 tons, speed of train must not be controlled exclusively with dynamic brakes and locomotive brakes.

- 4. When locomotive will control speed of train and total brake pipe reduction does not exceed 18 lbs., train may proceed without retainers.
- 5. On either track between Summit and San Bernardina, when total brake pipe reduction exceeds 18 lbs., stop must be made immediately and to control speed of train a sufficient number of retainers must be set in high pressure position and brake system must be fully charged before proceeding. If necessary to hold train while the brake system is being recharged, starting behind locomotive, set a sufficient number of hand brakes. If this stop is made between Summit and Cajon, under these conditions, a 10 minute wheel cooling stop must be made at Verdemont.
- 6. On South Track between Summit and Cajon, at any time a train stops, the brake system must be fully charged before proceeding. If necessary to hold train while brake system is being recharged and before releasing air brakes, starting behind locomotive, set a sufficient number of retainers and/or hand brakes.
- 7. When it is known before reaching Summit that locomotive consist does not have operative dynamic brake, one retainer for each 70 tons must be set in high pressure position before leaving Summit and make a 10-minute cooling stop at Verdemont.
 - 8. When retainers are used, not less than fifteen (15) must be set.
- 9. When retainers are positioned before reaching Summit or retainers are not required and it is known by Conductor and Engineman that prescribed brake pipe pressure is indicated on gauges, train may proceed without stopping; otherwise trains must stop at Summit and ascertain that brakes on rear car apply and release. Train must not proceed until brakes have been released and brake system recharged.

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

LOCATION	Psgr. and Light	Freigl
San Bernardino to Barstow		6
Adelanto Spur	. 15	ĭ
M.P. 81.5 to 80.8		2
2 Curves M.P. 80.8 to 78.3		6
4 Curves M.P. 72.6 to 70.8	. 45	4.
6 Curves M.P. 70.8 to 66.9	. 50	5
8 Curves M.P. 66.9 to 64.2		4
3 Curves M.P. 64.2 to 62.2	. 50	5
15 Curves (South Track) M.P. 62.1 to 57.1		3
2 Curves (South Track) M.P. 57.1 to 56.1		4
18 Curves (North Track) M.P. 64.3X to 57,4X		3
2 Curves (North Track) M.P. 57.4X to 56.1		4
8 Curves M.P. 56.1 to 51.8		5
8 Curves M.P. 51.8 to 49.4		4
Curve M.P. 49.4 to 48.8		5
Curve M.P. 48.8 to 48.1		6
Curve M.P. 43.7 to 42.0	55	5
3 Curves M.P. 42.0 to 39.9		5
4 Curves M.P. 39.9 to 37.4		4
Victorville M.P. 37.4 to 36.6		3
3 Curves M.P. 36.6 to 34.3		5
2 Curves M.P. 34.3 to 33.8		4
2 Curves M.P. 33.8 to 31.8		6
2 Curves M.P. 4.6 to 747.0	70	6
2 Curves M.P. 747.0 to 746.4		5
Helper locomotives at or near rear of train may use a	dynamic b	rake:
Summit to Victorville	•	
		MP
REDLANDS DISTRICT		

REDLANDS DISTRICT Crossings M.P. 0.0 to 0.7 Crossings M.P. 0.7 to 3.1 Redlands, St. Crossings M.P. 8.9 to 9.4 Mentone, St. Crossing and Track M.P. 12.0 to 19.7	5 15 15
LUCERNE VALLEY DISTRICT Hesperia to M.P. 25.2 M.P. 25.2 to 29.2	35 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)
Adelanto Spur	34.4	5 Miles	West (North Track)
Thorn	41.1	2995	East and West (North Track)
Summit	54.4	3500	East (North Track)
Alray	59.7X	1000	East (North Track)
Keenbrook	66.3	1580	East (North Track)
Devore	71.0	1700	East and West (South Track)
Ono	75.0	2200	East (North Track)
	REDLANDS	DISTRICT	
Nevada Street	6.7	<i>75</i> 0	East and West
Craf	11.4	188	East
LUC	CERNE VALL	EY DISTRICT	
La Habra Product	23.5	884	East and West
Chas. Pfizer and		20-7	
Co. Inc	26.2	1300	East and West

DEN	LANI	ות אנ	ICTBI	CT

WESTWARD	Ruling Grade Descending—— Feet Per Mila	TIME TABLE NO. 5 February 15, 1977	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	EASTWARD
ĺ	# 6 5	STATIONS	Ź	282 282	5 2 =	프	
	15.8 79.2 0.0 116.2 116.2	PATTON YL 1.0 HIGHLAND YL 2.5 EAST HIGHLANDS YL 42 MENTONE YL 3.2 REDLANDS YL 8.8 S. P. Crossing SAN BERNARDINO YL	19.7 18.7 16.2 12.0 8.8 0.0	84.5 73.9 84.5 0.0 79.2	C-R-Y	708 1220 1230 790 Yard	
		(19.9)					

Rule 93: Yard limits Patton to San Bernardino, inclusive.

Normal position of junctions switches San Bernardino for First District.

LUCERNE VALLEY DISTRICT

WESTWARD		TIME TABLE						EASTWARD
¥	Ruling Grade Descending— Feet Per Mile	NO. 5	7.7	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	
	Tage.	STATIONS		Ä	Pes	P T E	25 =	
	105.6	CUSHENBURY	YL	29.2		C	2900	
	105.6	SPUR 5	YL	26.1	0.0		700	
	75.0	BASS	YL	15.6	75.0		760	
	75.0	SPÜR 2	YL	11.3	0.0		122	
	75.0	SPUR 1	YL	7.0	75.0		114	
		HESPERIA	YL	0.0	, 5.0	В		
	7	(29.0)						

Rule 93: Yard limits Cushenbury to Hesperia, inclusive.

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

SWITCHES—MAXIMUM AUTHORIZED SPEED REDLANDS AND LUCERNE VALLEY DISTRICTS

Maximum speed permitted through all yard turnouts and crossovers—10 MPH; all main track turnouts and crossovers—15 MPH.

TRACK SIDE WARNING DEVICES—SPECIAL RULE 7 First District

1110. 2-10-1101						
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, OLIVE AND ELSINORE DISTRICTS

LOS ANGELES DIVISION

First Class		TIME TABLE	,			8	Eastwar First Class
3 -	6 년 1일	NO. 5 February 15, 1977		9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Communications Turn Tables and Wyes	of Sidings	4
	Ruling Grade Descending— Feet Per Mile		Mile Post	Ruling Grade Descending— Feet Per Mile	mmutic m Tabl	Capacity In Feet	
Leave Daily	Rul: Des Fee	STATIONS	3	282 282	525	<u> 5</u> =	Arrive Daily
AM 7.10	0.0	SAN BERNARDINO YL	81.3	64.9	C·R·Y	Yard	PM 9.3
7.17	0.0	RIALTO YL	84.9			2647	9.2
7.23	38.7	KAISER YL	91.8	35.4	C-R	Yard	9,2
	37.7	ETIWANDA YL	93.7	14.3	В	2570	
7.29	32.0	CUCAMONGA YL	97.7	14.3	C-Y	3154	9.1
7.33	19.3	UPLAND YL	100.9		С	2363	9.1
7.38	42.2	OLAREMONT S. P. Crossing	104.8	30.6		2732	9.1
7.45	59.1 63.4	POMONA POMONA	106.7	0.0		3079	s 9.0
		SAN DIMAS	110.2			1919	
7.55	63.4	GLENDORA	114.4	0.0		2820	8.5
7.58	63.4 75.0	2.5 AZUSA	116.9	39.6	C-Y		8.5
8.01		KINCAID	118.2			3213	8.4
	81.3	BUTLER	120.2	0.0		2561	
8.05	60.7	MONROVIA	122.4	26.4			8.4
	26.4	ARCADIA	124.2	75.0		852	
8.12	0.0	CHAPMAN	127.3	75.2		1850	8.3
8,30	95.0	PASADENA YL	131.7	78.1		1702	s 8.3
	114.6	SOUTH PASADENA	133.7	0.0	i		
8.38	88.7	OLGA	134.2	31.7		1698	8.1
	106.9	WATER STREET YL	138.7			890	
8,50	89.8	BROADWAY)	139.4	0.0			8.0
	37.0	MISSION TOWER	140.0	0.0	C-R-Y		
9.05 AM	59.7	0.8 LOS ANGELES Union Station (59.5)		0.0		Yard	8.0 PM
	31.7	FIRST STREET	141.1	0.0		Yard	
Arrive Daily		(59.6)					Leave Daily

Trains originating Los Angeles Union Station, Hobart and 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. Extra trains and engines must contact West Yard Tower 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 from San Bernardino and Kaiser, notify West Yard Tower Operator, or Kaiser Operator, as soon as main track has been cleared.

TCS in effect:

On main tracks between Broadway and Redondo Jct. Third Dist.

On main tracks at San Bernardino, between interlocked switches 5th St. and M.P. 82.6.

Rule 93: Yard limits located at: San Bernardino M.P. 82.6 to and including Upland, Pasadena, and Water Street to Broadway.

At San Bernardino between and including westward control signals "A" Yard Office, eastward control signals Rana and signals A Tara Onlice, editional control signal M.P. 82.6, signals when displaying a single yellow aspect will be "RESTRICTING" with the indication "PROCEED PREPARED TO ENTER TURNOUT OR TO STOP SHORT OF TRAIN OR OBSTRUCTION."

(31.0)

Average speed per hour

OLIVE DISTRICT

WESTWARD		TIME TABLE				n	EASTWARD
¥	ھاہ	NO. 5		 a.1 a .	cations es	of Sidings	^
↓	Ruling Grade Descending— Feet Per Mile	February 15, 1977	Mile Post	ing Grade cending— t Per Mile	돌돌일	Capacity of In Feet	
	Rul	STATIONS	Œ	Rulii Desc Feet	Committee Ture T	35	
	42.2	ATWOOD	0.0	0.0	Y-B	Yard	
:		OLIVE S. P. Crossing	2.4		<u> </u>		
	42.2	ORANGE	5.8	0.0	Y	3280	
	,	(5.8)					

TCS in effect on main track between Atwood and Orange.

(36.1)	
--------	--

		ELSINORE D	ISTRICT				
WESTWARD	de Kila Aile	TIME TABLE		# J.S	ations is	of Sidings	EASTWARD
\	Rusing Grade Descending— Feet Per Mile	February 15, 1977	Mile Post	Ruling Grade Descending Feet Per Mile	Communications Turn Tables and Wyes	Capacity In Feet	A
	132.0	ELSINORE YL	21.9	147.8		847	
	89.8	ALBERHILL YL 7.8 ARCILLA YL 8.5	16.3	79.2		1013	ļ
	68.6	PORPHYRY YL	0.0	0.0	Y	Yard	
		(21.9)					

Rule 93: Yard limits Elsinore to Porphyry, inclusive. Normal position of junction switches: Porphyry for Third District siding.

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS

		МРН	
100171011	Second District	Psgr. and	
LOCATION		Light	Frt.
San Bernardino to Los Angeles .	**********	. 65	60
Rialto, Cucamonga Foothill Spurs	. Muscat.		
Metropolitan and Pasadena Ir	dustrial Spurs	. 15	15
M.P. 81.5 to 85.2		. 30	30
TORTONG M.P. 60.3 TO 66.9	101.0	. 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
4 Curves M.P. 111.8 to 115.5	• • • • • • • • • • • • • • • • • • • •	. 55	55
2 Curves M.P. 118.8 to 119.7		. 55	50
M.P. 124.8 to 131.0		. 65	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
			MPH
OLIVE DISTRICT			40
ELSINORE DISTRICT			
Porphyry to M.P. 4.0			25
M.P. 4.0 to 22.1			35
71.1.4.0 10 22.1		• • • • • • • • • • • • • • • • • • • •	35
Turnouts & 5 curves M.P. 0.0 to 0.	8		10
6 Curves M.P. 2.1 to 4.0			20
3 Curves M.P. 4.0 to 4.8			30
6 Curves M.P. 5.9 to 8.1			30
2 Curves M.P. 8.7 to 9.4			25
2 Curves M.P. 14.7 to 14.9			30
8 Curves & grade M.P. 16.0 to 17	7 0		15
2 Curves & track M.P. 17.9 to 22.	7		20
		.	ÆU

SWITCHES-MAXIMUM AUTHORIZED SPEED

Trailing movements, spring point derails:	MPH
Rialto Foothill Spur, 300 ft. north S.P. Crossing	10
Cucamonga Foothill Spur, 300 ft. north S.P. Crossing	
Metropolitan Spur, 4068 ft. from main track	10

Maximum speed permitted through all yard and roundhouse turnouts and crossovers—10 MPH; all main track turnouts and crossovers—15 MPH; except for spring and interlocked switches and crossovers at following locations:

"I"—Interlocked Switch. "EE"—East End.

Lucation

"S"-Spring Switch. "WE"-West End.

Second District

San Bernardino	 Crossover between main tracks east of Bridge 82.1.	30
	EE and WE siding	
	EE and WE siding	
	Two track junction switch	
,		

Olive District

Atwood	. 1	Junction switch	40
Orange		WE siding	
	. 1	EE siding (main track)	40

RAILROAD CROSSINGS AT GRADE Second District

Location	Tracks Governed	Туре
Rialto Foothill Spur	S.P. Crossing	98-B, 98-C
Cucamonga Foothill Spur	S.P. Crossing	98-8, 98-C
Claremont	S.P. Crossing	Protected by signals 1051 and 1052, when signals in stop position movement over crossing must be made in accordance with Rules 98-B and 98-C
Mission Tower	S.P. & U.P. Crossings	When necessary make movement governed by Rule 321(A), examination each interlocked switch and derail not required. Whistle signals for Mission Tower will be sounded passing microphones located M.P. 135.8 for westward train movements and at Signal 1381 located M.P. 138.3 for yard movements.

Main track ---

Union Station 0-

Cudahy lead —0—

S.P. Downey Ave 000-

STATIONS OR TRACKS NOT SHOWN IN SCHEDULE **Second District**

Location	Mile Post	Capacity in Feet	Switch Connection
Rialto Foothill Spur	85.8	2600	West
Fontana	88.8	700	East and West
Muscat Spur	90.4	Lgh. 1.1 m.	West
Gallo Spur	94.6	2200	East
Rochester	95.0	460	East
Cucamonga Foothill Spur	95.8	Lgh. 3.0 m.	East and West
La Verne	107.9	750	East
Metropolitan Spur	108.6	Lah. 1.0 m.	West
Duarté	121.0	764	East and West
Pasadena Industrial Spur	127.5	2.1 m.	East
Lamanda Park		1 <i>772</i>	East and West
Raymond	132. 7	475	West
Highland Park	135.9	250	East
	re District		
Mining Spur	3.2	3425	East and West
South Corona	5.0		
Weisel	6.2	1820	East

LENGTHS OF STEMS OF WYES

Second District									
San Bernardino	3rd Dist. Main Track								
San Bernardino	Precooler Lead								

Feet

Cucamonga Foothill Spur Mission TowerL.A.U.P.T.

Olive District

Atwood							•												.60	0
Orange		. ,						. (О	İ١	/e	•	D	ist	N	۱a	in	t	rac	k

TRACK SIDE WARNING DEVICES

SPECIAL RULE 7 Second District Ctanala Adama

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
	Olive	District
Bridge 1.6	Highwater	Westward Control Sign

ridge 1.6	Highwater	Westward Control Signal Atwood governing move- ment from Third District to Olive District and
		Signal 22 for eastward movement.

RAILROAD CROSSING AT GRADE **Olive District**

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

8 THIRD DISTRICT

LOS ANGELES DIVISION

	WESTW	ARD			÷			ļi			EASTW	ARD	
	FIRST C	LASS			TIME TABLE	,			Ž.		FIRST C	LASS	
77	75	73	7 1	Air Air	NO. 5		age Mile	Communications Turn Tables and Wyes	of Sidings	70	72	74	76
Leave	Leave	Leave	Leave	Ruling Grade Descending— Feet Per Mite	February 15, 1977	Mile Post	Ruting Grade Descending— Feet Per Mile	mmuni rn Tabl d Wyes	Capacity (In Feet	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily
Daily	Daily	Daily	Daily	Fee	STATIONS	<u> </u>	252	828	-:				
				52.8	SAN BERNARDINO	0.0	64.4	C-R-Y	Yard ————			· .	
				52.8	T 4 3 7 4	1.6	0.0			i		-	
			_		COLTON S. P. Crossing	2.9	34.8	C	Yard ——				
				59.8	HIGHGROVE	6.7	7.4	B	Yard				
				52.8	RIVERSIDE JCT.	9.2	0.0	C-R					
				14.2 52.8	RIVERSIDE 4.2	9.8	63.4		Yard				
	<u> </u>	i		52.8	CASA BLANCA	14.0	21.1	Y	4934				
				52.8	ARLINGTON	16.4	0.0		3095	.		.	
				52.8	MAY	20.2	0.0		4692	.			
				30.1	PORPHYRY	22.8	0.0	Y	8059				
				52.8	CORONA	24.1	24.3	C-R	8370				
				62.8	PRADO DAM	29.2	21.1		4735	.			
				52.8	ESPERANZA	36.4	0.0		6359				
				42.2	ATWOOD)	40.6	13.2	Y					
-PM	_ РМ	_P M_	—A M —	42.2	PLACENTIA	43.0	0.0	<u> </u>		AM	—A M—	PM	PM-
10.20	6.30	3.00	9.00	33.4	FULLERTON U. P. Crossing	165.0	26.9	C-R		9.05	11.05	s 4.45	8.5
				9.2	LA MIRADA	158.7	37.0		Yard				
				17.6	SANTA FE SPRINGS	154.4	23.2	<u> </u>	4300				
				26.9	LOS NIETOS B. P. Crossing	153.1	17.4			\ <u></u>			
				20.0	B. P. Crossing 1.0 D. T. JUNCTION S. P. Crossing	152.1	1						
				0.0	PICO RIVERA	151.2	4.2	R	Yard				
				0.0	BANDINI	149.8	22,7						
	-			52.8	HOBART U. P. Crossing	145.5	22.7	C-R	Yard				
 				0.0	REDONDO JCT. U. P. Crossing	143.2	37.0	R-T-Y					
				0.0	FIRST STREET	141.1	59.7		Yard				
				0.0	MISSION TOWER	140.0	71.8	C-R-Y		8.33	10,33		8.2
10.55 PM	7.05 PM	3.35 PM	9.35 AM	31.7	LOS ANGELES Union Station		11.8			8.30 AM	10.30 AM	4.10 PM	8.2 PM
Arrive Daity	Arrive Daily	Arrive Daily	Atrive Daily		WEST (72.6) (71.6) EAST					Leave Daily	Leave Daily	Leave Daily	Leav Dail <u>y</u>
	(44.2)	(44.2)	(44.2)	<u> </u>	Average speed per hour	<u> </u>	<u>t</u>	!	<u> </u>	(44.2)	(44.2)	(44.2)	(44.2

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

Third District trains originating at First Street or Hobart must get clearance card before leaving Hobart.

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

Rule 97(A): Santa Fe trains must get clearance card before leaving San Bernardino.

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.

At San Bernardino between and including westward control signals "A" Yard Office, eastward control signals Rana and eastward control signal M.P. 82.6, signals when displaying a single yellow aspect will be "RESTRICTING" with the indication "PROCEED PREPARED TO ENTER TURNOUT OR TO STOP SHORT OF TRAIN OR OBSTRUCTION."

MAXIMUM AUTHORIZED DISTRICT SPEED FOR	MPH	
LOCATION	Psgr. and Light	Frt.
San Bernardino to La Mirada	79	60
La Mirada to Los Angeles	65	60
Prenda and La Habra Valley Spurs	15	15
2 Curves M.P. 0.0X to 1.5X	15	15
2 Curves and Bridge M.P. 0.0 to 0.9	15	15
4 Curves M.P. 0.9 to 2.1	20	20
3 Curves and Colton M.P. 2.1 to 3.2	30	30
2 Curves M.P. 3.2 to 4.0	40	40
10 Curves M.P. 4.0 to 6.4	. 60	60
3 Curves M.P. 6.4 to 6.8 (North Track)	40	40
3 Curves M.P. 6.4 to 6.8 (South Track)	30	30
3 Curves M.P. 6,8 to 9.6	50	50
7 Curves M.P. 9.6 to 11.8	60	60
2 Curves M.P. 11.8 to 12.5	45	45
Curve M.P. 14.7 to 14.9	75	60
3 Curves M.P. 15.5 to 16.7	55	55
Curve M.P. 16.9 to 17.1	65	60
Corong M.P. 22.5 to 25.8	30	30
Curve M.P. 30.4 to 30.7 (Westward movement)	65	60
Curve M.P. 31.2 to 30.4 (Eastward movement)	65	60
4 Curves M.P. 31.3 to 32.8	60	60
3 Curves M.P. 33.6 to 35.1	50	50
3 Curves M.P. 35.2 to 37.1	65	60
2 Curves M.P. 37.5 to 38.5	60	60
Placentia M.P. 42.7 to 43.6	50	50
2 Curves M.P. 45.2 to 45.7	50	50
Fullerton M.P. 165.2 to 164.7	50	50
Curve M.P. 161.1 to 160.8	75	60
Curve M.P. 156.6 to 155.9	60	60
Crossing and Curve M.P. 144.5 to 143.4	30	30
2 Curves M.P. 143.4 to 142.9	15	15

Tracks Governed

Location

SWITCHES — MAXIMUM AUTHORIZED SPEED	
Trailing movements, spring point derails:	MPH
Rana, switching lead	10
Prenda Spur, one-fourth mile from main track	10

Maximum speed permitted through all yard and roundhouse turnouts and crossovers—10 MPH; all main track turnouts and crossovers—15 MPH; except for interlocked switches and crossovers at following locations:

Station	Location MPI	HE .
Rana	Junction switch and crossover	C
Colton Colton	West end siding	
Riverside Junction	Union Pacific junction switch when not using crossover3	0
Riverside	Two-track junction switch)
Atwood	Two-track junction switch	
Fullerton	Fourth District junction switch	
La Mirada	Two crossovers	0
D. T. Jct.	Two crossovers	D
Bandini	Two crossovers56	0
Eastern Ave.	Main track crossovers and lead switch	0
M.P. 144.7	Two crossovers	0

STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

Location	Mile Posts	Capacity in Feet	Switch Connection
Prenda Spur (Prenda)	14.3	Lgh, 2.1 m.	East and West
La Sierra	18.5	440	West
Buena Park	160.5	725	East and West
Nutrilite Spur	160.8	425	East
Wilshire	156.8	2900	East and West
Mojave Spurs	155.8	1375	West
Stephens Spur	155.5	675	East and West
La Habra Valley Spur	154.6	Lgh. 1.2 m.	West

RAILROAD CROSSINGS AT GRADE

35 15

	i	
Colton Tower	S.P. Crossing	TCS
		TCS
Fullerton	U.P. Crossing	TCS
Los Nietos	S.P. Crossing	TCS
	1	
D.T. Junction	S.P. Crossing	TCS TCS
Hobart Tower	U.P. Crossing	TCS
Redondo Junction	U.P. Crossing	TCS
Mission Tower	S.P. and U.P. Crossings	TCS. When necessary make movement governed by Rule 321(A), examination of each interlocked switch and
MISSION TOWER	Jan and Oar Clossings	
i.	1	derail not required. Whistle signals for Mission Tower will be sounded passing microphones located M.P.
		135.8 for westward train movements and at Signal 1381 located M.P. 138.3 for yard movements.
	1	133.6 for westward frain inevenients and at Signal 1361 located M.P. 136.3 for yard movements.
		Main track Union Station 0 Cudahy lead0- S.P. Downey Ave 000-

TRACK SIDE WARNING DEVICES SPECIAL RULE 7

Туре

Location	Туре	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	Prenda Spur
Porphyry	, Elsinore Dist. Main Track
Atwood	
Redondo Junction	Harbor Dist. Main Track
Mission Tower	L.A.U.P.T.

10 FOURTH, ESCONDIDO AND FALLBROOK DISTRICTS

LOS ANGELES DIVISION

	WESTW	ARD		٠	· .						EASTW	ARD	
	FIRST C	LASS			TIME TABLE	ı			_		FIRST (CLASS	
77	75	73	71	<u>a</u> 1 ≅	NO. 5 February 15, 1977		a J.≅	tions s	of Sidings	70	72	74	76
Leave Daily	Leave Daily	Leave Daily	Leave Daily	Ruling Grade Descending— Feet Per Mile	STATIONS	Mile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity or In Feet	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily
				00.4	NATIONAL CITY YL	273.1	24,3	Y	Yard				
-PM-	РМ	РМ	AM-	26.4	22ND STREET YL	269.3	22.7	C-R		_A M_	PM	—Р М	PM_
8.20	4.30	1.00	7.00	0.0	SAN DIEGO YL	267.5		Y	Yard	s11.05			s10.55
8.27	4.37	1.07	7.07	31.0	OLD TOWN YL	264.2	52.8			10.50	12.50	6.30	10.40
				51.7	ELVIRA)	257.9	65.5						
				0.0	MIRAMAR }	253.0	113.5	Y					
				116.2	SORRENTO	249.1	0.0		4877				l
8.50	s 5.00	1.30	7.30	58.1	DEL MAR	244.0	56.0			10.29	12.29	6.09	81O.15
				63.4	ENCINITAS	238.1	52.8						
				63.4	PONTO	233.8	63.4	i —	5333				
				64.4	ESCONDIDO JCT.	227.2	69.7						
9.11	s 5.21	1.51	8 7.51	15.8	OCEANSIDE	226.2	7.4	C-R	6096	s10.09	12.09	s 5.49	9.5
				65.5	FALLBROOK JOT.	224.1	64.9	Y	4569		-PM-		
				69.0	SAN ONOFRE	209.2	64.9	<u> </u>	4927				
	5,42°	2.12		58.1	SAN CLEMENTE	204.8	26.4			8 9.49	s11.49		
				26.5	SERRA	199.8	26.4		4956				
9.40			f 8,20	0.0	SAN JUAN CAPISTRANO	197.2	60.5					s 5.21	f 9.3
				0.0	GALIVAN	192.6	65.5		4972				
				73.9	EL TORO	188.1	67.3						
	<u> </u>			70.2	VALENCIA	182.9	0.0		5982				<u> </u>
				63.4	TRVINE > >	178.5	22.0						
	 			0.0	SANTA ANA	175.5	38.5		6048		s11.21	. 501	
10.02	• 6.12	2.42	8 8.42 ———	14.3	2.9		82.6	C·R		· 7.41			7.1
				39.2	ORANGE	172.6	29.6	Y	6250				<u> </u>
					S. P. Crossing ANAHEIM	167.8		-	3044	1			
10.20 PM	8 6.30 PM	3.00 PM	9,00 8 9,0 0	16.9	FULLERTON	165,0	22.7	C-R		9.05 AM	11.05 AM	4.45 PM	8,5 PM
Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily		(107.7)	, ——- 				Leave Daily	Leave Daily	Leave Daily	Leave Daily
(51.0)	(51.0)	(51.0)	(51.0)	<u> </u>	Average speed per hour		<u> </u>	<u> </u>		(51.0)	(51.0)	(51.0)	(51.0)

		FALLBROOK D	ISTRICT				
Westward	Ruling Grade Descending— Feet Per Mile	TIME TABLE NO. 5 February 15, 1977 STATIONS	Mile Post	Ruling Grade Bescending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings in Feet	Eastward
	63.4 0.0 79.2 0.0	FALLBROOK JCT. YL 6.0 CHAPPO YL JOFEGAN YL 6.7 U.S.M.C. Crossing DE LUZ 1.8 FALLBROOK YL	0.0 5.9 8.4 16.1	73.9 81.1 132.0 105.6	Y	2077 2271 357	
		(16.9)					

Dula 02. Vand limit	- Callbraak let	to Fallbrook, inclusive.	
Kule 93: Tara limii	s raiibrook Jet.	to railbrook, inclusive.	

ESCONDIDO I	DISTRICT
-------------	----------

Ŭ	Ruling Grade Descending— Feet Per Mile	NO. 5 February 15, 1977	le Post	Ruiing Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	
	E S	STATIONS	Mile	20 Z	22.5	Ça .	
		ESCONDIDO YL	21.1	01.0	Y	1376	
	95.0	SAN MARCOS YL	16.2	91.3		866	
	116.2	VISTA YL	9.2	116.2		1811	
	116.2	ESCONDIDO JCT. YL	0.0	116.2	Y		
		(21.1)			_		

No. 71 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, Ash Street and Broadway.

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

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS

National City to Sorrento Post	Fr
National City to Sorrento	
Sorrento to Santa Ana	6
South Main Track, M.P. 179.1 to M.P. 176.7	6
	4
	6
Irvine and Miramar Spurs	1:
San Diego M.P. 273.0 to 267.3	20
San Diego M.P. 273.0 to 267.3	3
3 Curves M.P. 262.7 to 261.2	6
2 Curves M.P. 260.3 to 259.9	5
Curve M.P. 259.1 to 258.6	6
	_
3 Curves M.P. 258.5 to 257.9	40
	60
S Curves and Grade M.P. 253.5 to 257.9 Eastward	50
3 Curves M.P. 253.5 to 252.8	3:
10 Curves M.P. 252.8 to 251.0	2
2 Curves M.P. 250.9 to 250.6	41
Curves M.P. 250.5 to 250.0	5.
Curve M.P. 245.8 to 245.5 Westward	6
Curve M.P. 244.6 to 244.4 Westward 75	6
3 Curves M.P. 244.4 to 245.8 Eastward 60	6
2 Curves and Crossing M.P. 244.3 to 241.8 50	50
Curve M.P. 237.8 to 237.4	6
Oceanside M.P. 227.0 to 225.5	3
3 Curves M.P. 224.7 to 223.8	61
2 Curves M.P. 209.0 to 208.0	60
San Clemente M.P. 208.0 to 202.7	41
Curve M.P. 202.7 to 201.2	6
Curve M.P. 200.3 to 199.9	4
Curve M.P. 199.4 to 199.1	6
3 Curves M.P. 198.6 to 197.9	3.
2 Curves M.P. 197.4 to 197.0	6
Curve M.P. 195.9 to 195.8 75	6
Santa Ana M.P. 176.1 to 175.3	4
2 Curves M.P. 175.0 to 174.4	6
Curve M.P. 173.8 to 167.7 40	4
Curve M.P. 166.9 to 166.6	6
Curve M.P. 165.9 to 164.7 50	5
Escondido District	14 B
	MP
SCONDIDO DISTRICT	3
till St. & 17 Curves & track M.P. 0.3 to 7.1	Ţ
Curves & track M.P. 9.0 to 14.8	2
S Curves M.P. 17.9 to 19.5	2.
M.P. 19.5 to 21.1	2
Fallbrook District	
Fallbrook Jct. to M.P. 7.4	3
M.P. 7.4 to Fallbrook	2
	1

20
25
15
20
25
20
20

SWITCHES-MAXIMUM AUTHORIZED SPEED

Maximum speed permitted through all yard and roundhouse turnouts and crossovers—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	. 50
Orange	WE siding	
-	EE siding (main track)	. 40
lrvine	EE two tracks—M.P. 179.1	. 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

RAILROAD CROSSINGS AT GRADE

Location	Fourth District Tracks Governed	Турв
Anaheim (2.0 Mi. East)	S.P. Crossing	TCS
Anaheim Sugar Factory Spur	U.P. Crossing	98-B, 98-C
F	allbrook District	· · ·
De Luz	U.S.M.C. Crossing	98-B, 98-C

STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

Fo	ourth District	i	
Location	Mile Posts	Capacity in Feet	Switch Connection
Irvine Spur	178.7	Lgh. 6.8 m.	East
Browning	180.8	1080	East
Frances	183.1	1467	East and West
Kathryn	183.9	1000	East
Como	180.1	,	
Stuart	221.7	2543	East and West
Carlsbad	229.3	2500	West
San Diego G. & E. Co. Spur	231.3	1005	East
Solano Beach	241.9	436	East
Pacific Beach	260.3	634	East and West
Esco	ndido Distri	ct	
Talica	3.7	1347	East and West
Fail	brook Distri	ct	
Ranch House	7.6		T
Marine Base Spur	10.5	615	East and West

LENGTHS OF STEMS OF WYES

Location	Feet
Orange	
Fallbrook Jet. Escondido Jet.	Falibrook Dist. Main Track
Escondido	
Miramar , , , , , , , , , , , , , , , , , , ,	larasthy Street Marine Base Spur
National City	

TRACK SIDE WARNING DEVICES—SPECIAL RULE 7

Fourth District					
Location	Туре	Signals Affected			
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			

12 HARBOR AND REDONDO DISTRICTS

LOS ANGELES DIVISION

		HARBOR	DISTRI	СТ			
WESTWARD	Ruling Grade Descending— Foet Per Milo	TIME TABLE NO. 5 February 15, 1977	Aile Post	Ruling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	EASTWARD
	R. Pe	STATIONS	₹	ZĀ.	-ŭ≓		
	52.8 21.1	REDONDO JOT. YL MALABAR YL 1.0	0.0	0.0	R-Y	Yard	
	21.1	S. P. Crossing NADEAU YL S. P. Crossing 1.0	2.5	0.0			
	18.5	WINGFOOT YL	3.5	0.0	<u>B</u>	Yard	
	10.5	WILDASIN YL VAN NESS YL	7.3	10.6	-	Yard Yard	
	0.0	HYDE PARK YL	8.0	57.6		Yard	
	52.8 79.2	INGLEWOOD YL	9.9	52.8 79.2		Yard	
	11.6	LAIRPORT YL	13.6	52.8	В	5100	
		S. P. Crossing EL SEGUNDO YL	14.8	51.1	Y		
	52.6 52.3	LAWNDALE YL	16.6	58.4		Yard	
	10.9	ALCOA YL	20.1	26.4	B	Yard	
	24.3	TORRANCE YL 1.0 IRONSIDES YL	21.7	0.0		Yard Yard	
	79.2	IRONSIDES YL 3.3 WATSON YL	23.3 26.6	52.8	C-R-Y	Yard Yard	
		WILMINGTON YL	28,0		B	Yard	
		PIER A YARD YL			0	Yard	
		WEST THENARD S, P, Crossing					
		LONG BEACH					
<u> </u>		(28.0)	<u> </u>	<u> </u>	l	<u> </u>	<u> </u>

REDONDO DISTRICT

WESTWARD		P1445 TABLE					EASTWARD
*	Ruing Grade Descending— Feet Per Mile	TIME TABLE NO. 5 February 15, 1977 STATIONS	Mile Post	Ruling Grade Descending— Feet Per Mite	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	1
		REDONDO BEACH YL	20.2	40.0		Yard	
	0.0	HERMOSA BEACH YL	18.7	42.2		Yard	
	0.0 52.8	MANHATTAN BEACH YL	17.0	47.5			
	02.0	EL SEGUNDO YL	14.8	77.6	Y_	Yard	
		(5.4)					

Rule 93: Yard limits Redondo Beach to El Segundo, inclusive.

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
West Thenard	S.P. Crossing	is passing over crossing Automatic interlocking, 321(C)

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS

LOCATION	MPH
HARBOR DIST.	30
Torrance Oil Spur	15
Alcoa Spur	15
M.P. 0.0 to St. Crossing M.P. 1.6	12
MP 16 to MP 10.1	15
St. Crossing M.P. 13.1	15
M.P. 20.0 to 23.0 Torrance	15
St. Crossing M.P. 25.9	10
St. Crossing M.P. 26.0	10
St. Crossing M.P. 26.1	
Between Watson and Pier A Yard	
REDONDO DIST.	15

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 Pier A to Redondo Jct., inclusive.

Movements over Harbor Belt Line and Southern Pacific joint tracks between McFarland Ave. and Pier A Yard and between Avalon Blvd. and San Pedro will be made as prescribed by Rule 93.

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

Authority must be secured from Harbor Belt Line Yardmaster before making movements in either direction between Watson and Pier A Yard, from Watson to San Pedro and from Sixth Street Yard, San Pedro to Watson.

Movements over Southern Pacific joint track between West Thenard and Long Beach will be made under provision of Rule 93 and must be authorized by Southern Pacific Trainmasters Office, Long Beach.

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.

SWITCHES—MAXIMUM AUTHORIZED SPEED

Maximum speed permitted through all yard turnouts and crossovers—10 MPH; All main track turnouts and crossovers—15 MPH.

LENGTHS OF	F STEMS OF WYES
Location	Feet
Redondo Junction	,
El Segundo	Redondo Dist. Main Track
Watson	3800

Normal position of junction switches El Segundo for Harbor District.

WESTWARD		TIME TABLE					EASTWAR
V	Ruling Grade Descending Feet Par Mile	NO. 5 February 15, 1977 STATIONS	Mile Post	Neling Grade Descending— Feet Per Mile	Communications Turn Tables and Wyes	Capacity of Sidings In Feet	<u></u>
	0.0 52.8 17.6 47.5 28.6 63.4 42.2 0.0	HIGHGROVE YL S. P. Crossing P.	7.2 9.6 10.6 13.5 18.3 22.7 28.9 36.0	116.2 31.4 0.0 0.0 9.5 21.6 49.3 52.8	С У В	1018 1555 2046 1105 Yard 1030 1570 Yard	
<u></u>		SAN JACINTO YL (38.3)	38.3		C-Y	Yard	

Rule 93: Yard limits Highgrove to San Jacinto, inclusive. Normal position of junction switches: Highgrove for Third District.

MAXIMUM AUTHORIZED DISTRICT SPEED FOR TRAINS

Location	MPH
San Jacinto District	
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 all yard turnouts and crossovers—10 MPH; all main track turnouts and crossovers—15 MPH.

RAILROAD CROSSING AT GRADE

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

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
March Field	March Field Spur
	Granite Spur
	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, Torrance, Fullerton, Oceanside, San Diego and 22nd St. yard office.
- 2. Union Pacific trains using joint tracks between Riverside Jct. and Daggett 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 handthrown switch, not electrically locked, for the purpose of meeting or passing or being passed by another train or engine.
- 4. Rule 80: Bulletin books are located at Needles, Parker, Blythe, Barstow, Victorville, San Bernardino, Kaiser, Corona, Fullerton, Pico Rivera, Union Station, Redondo Junction, Hobart, Torrance, Watson, Santa Ana, Oceanside, 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 dragging equipment indicators actuated, stop and inspect train.

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 motor or suspension bearings, will actuate track side indicators causing rotating white light to illuminate at detector (scanner) and locator locations. Dragging equipment will also activate wayside indicators.

When actuated by a train, stop must be made at locator, readout observed and instructions in locator cabinet complied with. If abnormal heat or dragging equipment is not found on equipment indicated by locator, close inspection must be made on three cars (or units) on either side of indicated equipment.

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 equipment.

On inspections required above, 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 track side indicator is illuminated before train reaches scanner, stop must be made and locator observed unless otherwise instructed by train dispatcher. If any lamps are lighted, be governed by the three preceding paragraphs. If no lamps are lighted, train may proceed at prescribed speed and be observed closely enroute.

Continued on next page

14 SPECIAL RULES

LOS ANGELES DIVISION

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.

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

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 are considered loads.)

- (B) Freight trains averaging 85 tons or more per car or having 5000 tons or more, must not exceed 45 MPH.
- 9. Between Needles and Victorville, 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 and mixed 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)
1.5 to 2.0% (79.2 to 105.6 feet per mile)
2.0% (105.6 feet per mile)
30 MPH
2.5 MPH
2.5 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 a siding must not exceed speed for that turnout.

13. MAXIMUM SPEED OF ENGINES

Engines	Forward or dead in train	When not controlled from leading unit
AMTRAK 100-799	MPH	MPH.
5940-5948	90*	45
All 1150, 1160 1215, 1418, 1500		
and 2322 Class Units	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.

Light Forward

		2/9/11 / 01 11 01 0	
Diesels without dynamic « brakes in use	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	Maximum speed
	(inches)	(MPH)
All Classes	4	5

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	Pile Drivers AT-199454 AT-199455 AT-199457 AT-199459 Derrick AT-199787 and Jordan Spreaders M.P.H.	Other Wrecking Derricks M.P.H.	Pile Drivers AT-199452 AT-199453 AT-199456 AT-199476 AT-199482 Other Machines M.P.H.
Needles, Cadiz, First, Second, Third and Fourth Districts	45	40	30
All other Districts	15	15	15

Derrick AT 199787 and pile drivers must be handled in trains next to engine.

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

THE SANTA FE EMPLOYES COAST LINES HOSPITAL ASSOCIATION

DR. ERNEST E. PARKS, MEDICAL DIRECTOR-CHIEF EXECUTIVE OFFICER

Los Angeles, Calif.

R. W. WELLS, GENERAL WATCH INSPECTOR
Topeka, Kansas

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

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!

LOS ANGELES DIVISION

FREIGHT TRAIN SCHEDULE (For Information Only) WESTWARD

Trains Needles	WESTWARD						
118	Trains	Needles	-				-+
128	118						
138			 		_		
188				11:30r	2:30A	3:00A	5:00A
308			· 	7.000	- (2)		<u> </u>
318 3:55P 8:15P 9:30P 12:30A 1:05A 3:10A						4	
328					 		
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358-9 12:25P 5:25P 6:25P 9:25P 10:05P 12:10A 508-9 6:45P 11:45P					1:35P	2:05P	4:10P
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309-9 5:55P 10:45P			7:30P				
			9:30A				
319-9 5:55A 10:45A							
	319-9	5:55A	10:45A				

708	Lv. Parker Ar. Barstow	5:30A 12:01P	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 6:30A
788 887	YK Coal Coal Mtys		3251	Lv. San Bernardino Ar. San Diego	3:40P 9:00P
				Lv. San Diego Ar. San Bernardino	9:00P 2:30A

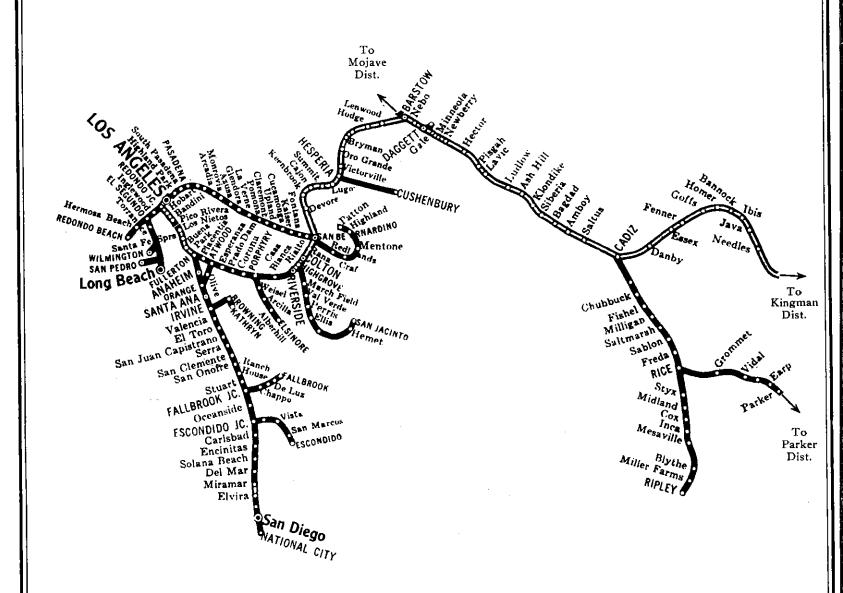
FREIGHT TRAIN SCHEDULE (For Information Only) EASTWARD

Trains Hobart San Bernardino Barstow Needles						
	Lv.	Arr.	Lv.	Arr. Lv.		Arr.
801	12:01A	2:30A	3:15A	6:00A	7:15A	11:10A
803			0.107	0.007	12:30A	4:10A
804				_	4:00A	8:00A
805					1:00P	5:00A
808	6:30A	8:45A	9:15A	12:45P	1.001	3:001
811	8:00A	10:30A	11:30A	2:15P	3:30P	7:10P
813				2.131	2:30A	6:10A
817			<u> </u>		6:30P	10:00P
823			 -	· · · · · ·	4:30A	8:10A
827	7 -				6:30P	11:00P
833					6:30A	10:10A
843					8:30A	
853						12:10P
865					10:30A	2:10P
876					10:30A	2:10P
881	4004	5054			11:30A	2:55P
	4:00A	5:35A	5:40A	8:30A	9:00A	12:40P
883	5:30A	7:15A	7:45A	10:15A	11:00A	2:30P
885	12:01A	1:45A	2:15A	5:00A		_
901					7:40P	11:25P
903					12:30P	4:10P
913					2:30P	6:10P
923					4:30P	8:10P
933					6:30P	10:10P
943					8:30P	12:10A
953			-		10:30P	2:10A
963			-		5:15P	9:15P
991					3:35P	6:35P

SPEED TABLE

Table of speeds (minutes and seconds per mile, in terms of miles per hour).

Time	Per	Miles	Time	e Per	Miles	Tim	e Per	Miles
M	ile	Per	M	ile	Per	11	lile	Per
Min.	Sec.	Hour	Min.	Sec.	Hour	Min.		Hour
	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	ד	02	58.0	1	46	34.0
	40	90.0	1	04	56.2	1	48	33.3
	41	87.8	1	06	54.5	1	50	32.7
	42	85.7	1	80	52.9	[] 1	52	32.1
	43	83.7	ו	10	51.4	1	54	31.6
. :	44	81.8	1	12	50.0	1	56	31.0
	45	80.0	1	14	48.6	1	58	30.5
• •	46	<i>7</i> 8.3	1	16	47.4	2		30.0
	47	76.6	1	18	46.1	2	05	28.8
	48	75.0	1	20	45.0	2	10	27.7
	49	73.5	7	22	43.9	2	15	26.7
	50	72.0	1	24	42.9	2	30	24.0
	51	70.6	1	26	41.9	2	45	21.8
	52	69.2	I	28	40.9	3]	20.0
• •	53	67.9	1	30	40.0	3	30	1 <i>7</i> ,1
	54	66.6	1	32	39.1	4		15.0
٠.	55	65.5	1	34	38.3	5		12.0
	56	64.2	1	36	37.5	6		10.0
	57	63.2	1	38	36.8	12		5.0



LOS ANGELES AND
LOS ANGELES TERMINAL DIVISIONS