# TERMINAL SUPERINTENDENT V. E. ANDERSON......Phoenix TRAINMASTERS B. B. KIMBALL.....Yuma W. G. CURRIER.....Tucson J. E. SCHWARTZ.....Tucson A. G. McMANUS......Phoenix B. C. BRADFORD.....Bowie ASSISTANT TRAINMASTERS J. H. VERMILLION ..... Gila F. J. DEON......Gila W. F. CURRIER .......Gila R. D. CHASTAIN ...... Phoenix J. E. BUTLER, JR.....Phoenix ROAD FOREMEN OF ENGINES C. A. BALL, SR.....Tucson R. A. MILLER.....Tucson ENGINEMEN INSTRUCTOR J. E. PFERSDORF.....Tucson ASSISTANT TRAINMASTER-DIVISION EXAMINER B. M. BRAGDON.....Tucson CHIEF TRAIN DISPATCHER H. W. CASSADY.....Tucson

J. C. SLADE
Assistant Superintendent, Tucson

# SOUTHERN PACIFIC COMPANY



# TUCSON DIVISION TIMETABLE

117

AT 12:01 A. M.
MOUNTAIN STANDARD TIME

FOR THE GOVERNMENT AND INFORMATION
OF EMPLOYES ONLY

J. W. CORBETT, General Manager.

> R. E. HALLAWELL, H. R. HUGHES, Assistant General Managers.

> > G. C. BAKER.

General Superintendent of Transportation.

C. H. GRANT, Superintendent of Transportation.

> G. A. BAYS, Superintendent.

# HOSPITAL DEPARTMENT SURGEONS

Yuma Dr. W. C. Cain Asst. Dist. Physician and Sur Phoenix Dr. J. E. Draine Asst. Dist. Physician and Surgeo Phoenix Dr. J. E. Draine Asst. Dist. Physician and Surgeo Phoenix Dr. Carlos C. Craig Asst. Dist. Physician and Surgeo Phoenix Dr. Carlos C. Craig Asst. Dist. Physician and Sur Phoenix Dr. Donald Polson Asst. Dist. Physician and Sur Phoenix Dr. Donald Polson Asst. Dist. Physician and Sur Phoenix Dr. D. F. Harbridge Oculist and Aurist Physician and Sur Phoenix Dr. B. L. Melton Aurist District Physician and Surgeo Chandler Dr. D. J. M. Meason District Physician and Surgeo Chandler Dr. D. I. Arnow Asst. Dist. Physician and Surgeo Chandler Dr. D. I. Arnow District Physician and Surgeo Chandler Dr. D. I. Arnow District Physician and Surgeo Chandler Dr. D. I. Arnow District Physician and Surgeo Chandler Dr. D. I. Arnow District Physician and Surgeo Chandler Dr. D. J. M. Walker Emergency Physician and Surgeo Chandler Dr. D. J. Walker District Physician and Surgeo Chandler Dr. D. J. Jeffery District Physician and Surgeo Chandler Dr. V. J. Jeffery District Physician and Surgeo Chandler Dr. V. J. Jeffery District Physician and Surgeo Chandler Dr. V. J. Jeffery District Physician and Surgeo Chandler Dr. C. A. Thomas Assistant to Chief Surgeon Tueson Dr. C. A. Thomas Division Physician and Surgeo Tueson Dr. C. Whitle Oculist and Aurist Nogales Dr. J. S. Gonzalez District Physician and Surgeo Willeox Dr. J. E. Wilson District Physician and Surgeo Willeox Dr. B. E. Briscoe District Physician and Surgeo Willeox Dr. R. A. Hicks Asst. Dist. Physician and Surgeo Cafford Dr. F. W. Parrish District Physician and Surgeo Cafford Dr. J. N. Stratton District Physician and Surgeo Safford Dr. J. N. Stratton District Physician and Surgeo Safford Dr. F. W. Parrish District Physician and Surgeo Safford Dr. F. W. Burler Asst. Dist. Physician and Surgeo Safford Dr. F. W. Burler Asst. Dist. Physician and Surgeo Dr. C. Safford Dr. F. W. Burler Asst. Dist. Physician and Surgeo Cafford Dr. F. W. Burler Asst. Dist. Physician and Surgeo Saff	LOCATION	NAME	TITLE
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Jenson         Dr. J. M. Hesser         District Physician and Surgec           Villeox         Dr. J. E. Wilson         District Physician and Surgec           Villeox         Dr. B. E. Briscoe         District Physician and Surgec           Villeox         Dr. R. A. Hicks         Asst. Dist. Physician and Surgec           lowie         Dr. F. W. Parrish         District Physician and Surgec           Jordsburg         Dr. C. D. Austin         District Physician and Surgec           afford         Dr. J. N. Stratton         District Physician and Surgec           afford         Dr. F. W. Butler         Asst. Dist. Physician and Surgec	des		
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Villeox Dr. R. A. Hicks Asst. Dist. Physician and Sur bowie Dr. F. W. Parrish District Physician and Surgec ordsburg Dr. C. D. Austin District Physician and Surgec afford Dr. J. N. Stratton District Physician and Surgec afford Dr. F. W. Butler Asst. Dist. Physician and Sur	OX		
lowie     Dr. F. W. Parrish     District Physician and Surgecondsburg       Dr. C. D. Austin     District Physician and Surgecafford       Dr. J. N. Stratton     District Physician and Surgecafford       Dr. F. W. Butler     Asst. Dist. Physician and Surgecafford	ox		
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afford	sburg		District Physician and Surgeon
afford Dr. F. W. Butler Asst. Dist. Physician and Sur	rd		
	rd		Asst. Dist. Physician and Surgeon
dobe Dr. C. Gunter District Physician and Surged	0	Dr. C. Gunter	District Physician and Surgeon
	ni	Dr. C. M. Cron	District Physician and Surgeon Asst. Dist. Physician and Surgeon

Note.—Emergency Surgeons should only be summoned for temporary treatment when prompt attention is required and when patients cannot be sent to or await arrival of Division or District Surgeon.

# HOSPITALS

GENERAL HOSPITALSAN	FRANCISCO, CALIF.
DIVISION—ST. JOSEPH'S HOSPITAL	PHOENIX, ARIZ.
DIVISION—ST. MARY'S HOSPITAL	TUCSON, ARIZ.
EMERGENCY HOSPITAL	TUCSON, ARIZ.
EMERGENCY HOSPITAL	GILA, ARIZ.

						offered world
· bunkana /						
	Office S					
				26.1		
				35.01		
			910.9			

buildings not made retrocateful des suits plaintess. It is 0.0191

Wild dis the med Wil. Somewholess multi-benefit are the trains and continue and the second prime and the state of the second prime are the second prime are the second as a second prime are the second as a second second as

2				WELL	ron s	UBDIV	ISION					,
		EAST	[WA]	RD								
			FI	RST CLA	ss						Timetable No. 117	E
	pacity of sidings n car lengths	g L	2 Sunset Limited	4 Golden State Limited	48 Mail and Express	6 Argonaut	44 Californian	370 A. O. N.	Mile Post Location		June 2, 1946	Distance from Yuma
		Les	ave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily Ex.Sun., Mon			STATIONS	
yard	вкуотур		PM 7.45	PM 6.10	5.30	AM 4.25	AM 4.00	3.20	732.7	T	O-R YUMA	0.0
Yuma yard	P		7.55	6.20	5.40	4.36	4.11	3.31	737.4 737.5	T	O-R EAST YARD	4.7
62	P		7.59	6.24	5.44	4.40	4.15	3.35	740.1		ARABY	7.3
70	P		8.03	6.28	5.48	4.44	4.19	3.39	743.7		FORTUNA	10.9
62	P		8.07	6.32	5.52	4.48	4.22	3.45	746.6	T		13.8
113	P		8.11	6.36	5.56	4.53	4.27	3.50	750.6		KINTER	17.8
M 76	P		8.16	6.41	f 6.01	4.59	4.32	3.55	753.5	Т		
68	WIP		8.35	7.00	f 6.20	f 5.18	-4.51	4.14	770.0	T	O WELLTON	37.2
72	P		8.43	7.08	6.28	1	4.59	4.22	775.7	100	5.7 MING	42.9
73	P		8.49	7.14	f 6.34		5.05	4.28	780.9		ROLL	48.1
73	P		9.02	7.27	6.48		5.19	4.42	793.2	T	o growler	60.4
76	P		9.13	7.38	6.59		5.29	4.52	802.5		9.3 <b>KOFA</b>	69.7
73	P		9.24	7.49	7.10		5.41	5.04	812.7	stem	HORN	79.9
75	WOP		9.35	8.00	s 7.26		5.58	5.20	822.3	ck Sy	O HYDER	89.5
73	P		9.46	8.11	7.38		6.10	5.32	831.1	ic Blo	MONTEZUMA	98.3
76	WP		9.57	8.22	7.50		6.22	5.44	841.1	12	O SADDLE	108.3
72	P	1	0.13	8.38	8.08		6.40	6.02	851.0	Aut	GILLESPIE	118.2
76	P	1	0.24	8.49	8.20		6.53	6.14	861.3		ARLINGTON	128.5
72	P	1	0.31	8.56	8.25		6.58	6.19	865.7		DIXIE	132.9
72	P	1	0.38	9.03	8.32		7.05	6.26	871.5	1	CONGER	138.7
76	WP	1	0.44	9.09	f 8.40		7.10	6.31	875.7	Т	O BUCKEYE	142.9
72	P	1	0.51	9.16	8.48		7.17	6.38	881.7		LIBERTY	148.9
74	YP	1	1.01	9.26	f 8.58		7.25	6.46	889.7	, Т	O LITCHFIELD	156.9
100	P	1	1.05	9.30	9.03		7.29	6.50	893.0		CASHION	160.2
73	P	1	1.11	9.36	9.09		7.35	6.56	898.1		FOWLER	165.3
ſ	P		1.17	9.42	9.15		7.41	7.02	904.0		23rd AVE. PHOENIX	171.2
74						uma Laura			905.5		1.5 Crossing—AT&SF Wye	172.7
75	BKWP	s 1	1.25 PM	s 9.50	s 9.25		s 7.50		906.0	T	O-R PHOENIX	173.2
-	вкиотур							s 7.10	907.0	T	O-R PHOENIX YARD	174.2
		Arri	ive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily Ex.Sun.,Mon			(174.2)	
		(3	3.40) 7.23	(3.40) 47.23	(3.55) 44.87	(0.53) 42.22	(3.50) 45.18	(3.50) 45.44			Time over District Average Speed per Hour	

RULE 5. Schedule time and train-order time for eastward trains at East Yard and Phoenix Yard apply at end of double track.

RULES 86 and 93. Second-class trains, extra trains and engines must be clear of main track and insulated joints at meeting and passing points for Nos. 1, 2, 3 and 4.

		Receive To	Discharge From	
Train	At	(or Beyond)	(or Beyond)	Frequency
44	Hyder	Tucson	Yuma	Daily

			-	WELL	TON S	UBDI	VISION		entra de la composição de	State of the	3			
	D.A.	1137					WEST	WARD		Wildest.	WARE			
t o	Timetable No. 117	rom	g FIRST CLASS											
Mile Post Location	June 2, 1946	Distance from Phoenix Yard	1 Sunset Limited	Golden State	47 Mail and Express	5 Argonaut	43 Californian	160 %, 250			e estropes is no si			
	STATIONS	".	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	1 14 14 14 14						
732.7	TO-R YUMA	174.2	AM s 4.10	PM 8 3.40	PM s 7.15	PM s 11.40	AM s 12.50			I manne	are L			
737.4 737.5	TO-R EAST YARD	169.5	3.58	3.29	7.05	11.29	12.39	Tarilla I	T man	18				
740.1	ARABY 3.6	166.9	3.53	3.24	6.59	11.24	12.33	YERRA		7	UN			
743.7	FORTUNA 2.9	163.3	3.49	3.20	6.55	11.20	12.29		0.17/0.0	4	ot			
746.6	TO BLAISDELL	160.4	3.45	3.16	6.51	11.16	12.25	rectionary (	i ma i	7	(x)			
750.6	KINTER 2.9	156.4	3.40	3.11	6.46	11.10	12.20	ORDER OF THE ORDER			327			
753.5	TO DOME	153.5	3.36	3.07	f 6.41	11.05	12.16 AM	- Hardyyk		50 (-12)	05 N			
770.0	TO WELLTON	137.0	3.17	2.48	s 6.20	f 10.45	11.56 PM			EVENT.	Б			
775.7	MING 5.2	131.3	3.10	2.41	6.10	-	11.49	01010		4	25			
780.9	ROLL 12.3	126.1	3.04	2.35	f 6.03		f11.43	And years			17			
793.2	TO GROWLER 9.3	113.8	2.50	2.21	5.47		11.29	42 Let			76			
802.5	KOFA 10.2	104.5	2.39	2.10	5.36	11.10	11.19	inge our			05			
	HORN 9.6	94.3	2.27	1.58	5.24		11.07	(Chieffy)		1	14			
0.000	TO HYDER	84.7	2.15	1.46	s 5.12		f 10.55	NAT (VAIS)		200	00;			
831.1	MONTEZUMA	75.9	2.02	1.36	4.56		10.40	(washin i			61			
841.1	TO SADDLE 9.9	65.9	1.50	1.24	4.44	Jan Sign	10.28	in Ship	1 100 0	Hijy	85			
851.0	GILLESPIE 10.3	56.0	1.38	1.12	4.32	1.00	10.13			R. Letel	97			
861.3	ARLINGTON	45.7	1.26	1.00	4.20	Lycui	9.57	and an area						
865.7	DIXIE 5.8	41.3	1.21	12.55	4.15		9.45			1112	12			
871.5	CONGER 4.2	35.5	1.14	12.48	4.08	1.00	9.37		100	DIVIDE	. 55			
875.7	TO BUCKEYE	31.3	1.09	12.43	s 4.02	and the	f 9.30			No.	-			
881.7	LIBERTY 8.0	25.3	1.01	12.36	3.52		9.16	The Market of the Control of the Con		A	9			
889.7	TO LITCHFIELD	17.3	12.51	12.26	s 3.42		f 9.06	Maria mana sandan sandan		100	The PT			
893.0	CASHION 5.1	14.0	12.47	12.22	3.33	or was	8.57			/m	001			
898.1	FOWLER 5.9	8.9	12.41	12.16	3.27	100	8.51				61			
904.0	23rd AVE. PHOENIX	3.0	12.35	12.10	3.21		8.45	ical Diservities is		14	25			
905.5	Crossing—AT&SF Wye	1.5						alog by Huyan hat Hea	htsom of	the Too				
906.0	TO-R PHOENIX	1.0	12.30 AM	12.05 FM	3.15 PM	Les audit	8.40 PM	to our a Nate		17790				
907.0	TO-R PHOENIX YARD	0.0			TELA I			The second second		BA EDA	BE.			
	(174.2)		Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Klige (d. Spijee) e, MIZ I	100					
	Time over District		(3.40) 47.23	(3.35) 48.33	(4.00) 43.33	(0.55) 40.58	(4.10) 41.57							

RULE 5. Schedule time and train-order time for eastward trains at East Yard and Phoenix Yard apply at end of double track.

RULES 86 and 93. Second-class trains, extra trains and engines must be clear of main track and insulated joints at meeting and passing points for Nos. 1, 2, 3 and 4.

No. 43 stop at Wellton on Sunday to detrain M of W employes.

The clear of main tracks and insulated points at mysting and gave the points at mysting and gave to go clear be clear to contain the points at mysting and gave to go contain the points at mysting and gave to go contain the points at mysting the clear to contain the cont

		EASTV		A SPECIAL DE LA SECONICIONA DELIGIONA DE LA SECONICIONA DELIGIONA DE LA SECONICIONA DE LA SECONICIONA DE LA SECONICIONA		/ISION	Elicination (			
			MANUAL STREET	Hazesan						241
		unaun!	SECOND CL	ASS				lon	Timetable No. 117	from
Capacity in car	y of sidings lengths	2	AS .	846 Freight	902 Freight	844 Freight	842 Freight	Mile Post Location	June 2, 1946	Distance from
			T date of	Leave Daily	Leave Daily	Leave Daily	Leave Daily		STATIONS	
B B	KWOTYP			PM 4.30	PM 2.00	8.20	AM 1.10	732.7	TO-R YUMA	0.
	P		(A) (A)	4.45	2.15	8.35	1.25	737.4 737.5	TO-R EAST YARD	4
62	P .		7 194	4.50	2.20	8.40	1.30	740.1	ARABY	7
70	P		Week	4.57	2.27	8.47	1.37	743.7	FORTUNA	10
62	P		15,50	5.02	2.32	8.52	1.42	746.6	TO BLAISDELL	13
113	P		1 06.86	5.10	2.40	9.00	1.50	750.6	KINTER	17
м 76	P		3 4 5 4	5.16	2.46	9.06	1.56	753.5	TO DOME	20
68	WIP		1900	5.45 PM	3.15	9.35 AM	2.25 AM	770.0	TO WELLTON	37
72	P		18941	L. Diza	3.30	A By III	03.4	775.7	MING	42
73	P		EALL		3.40	66.4	MAG	780.9	ROLL	48
73	P		13 es 11		4.00	15,0	CHA	793.2	TO GROWLER	60
76	P		18 19 16		4.18	10 (13	BLA.	802.5	KOFA	69
73	P		130/14		4.38	047	76.5	812.7	10.2 HORN 9.6	79
75	WOP				5.12	OBSE	UA		TO HYDER	89
73	P		n ener		5.28	45		831.1	O MONTEZOMA	98
76	WP		85.04	7.70	5.45	100 /	08.4	0.000.00	TO SADDLE	108
72	P	7 (8)	86,94		6.20		86.1	851.0	GILLESPIE	118
76	P		1743		6.37	DOLL	Wind .	861.3	ARLINGTON	128
72	P		26.6		6.45	6.6.61	L E A	865.7	DIXIE	132
72	P			- 0.50	7.03	I DIN FJ	Market .	871.5	CONGER	138
76	WP		969y	L LAG	7.10	56.44	49.1	875.7	TO BUCKEYE	142
72	P	1.01	1 4 64	1 0 00	7.22	ALT:	10.1	881.7	LIBERTY	148
74	YP		10.8		7.40	1. C. T	PAL	889.7	TO LITCHFIELD	156
100	P		TURE	3 ( )	7.48		1-5.1	893.0	CASHION	160
73	P		1468		7.56	4 -	TFR.5/1	898.1	FOWLER	165
75	P		1 668		8.06	10.11	168-63	904.0	23rd AVE. PHOENIX	171
75								905.5	Crossing—AT&SF Wye	172
	вкwр	[] []	L. Carrie		TO AT I	- VBST	OF L	906.0	TO-R PHOENIX	173
BE	CWOTYP				8.15 PM	TIT		907.0	TO-R PHOENIX YARD	174
			100 7 110	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily		(174.2)	7
				(1.15) 29.76	(6.15) 27.87	(1.15) 29.76	(1.15) 29.76		Time over District	

RULE 5. Schedule time and train-order time for eastward trains at East Yard and Phoenix Yard apply at end of double track.

RULES 86 and 93. Second-class trains, extra trains and engines must be clear of main track and insulated joints at meeting and passing points for Nos. 1, 2, 3 and 4.

NAME	Mile Post	Capacity
Granite Spur(Spur)	755.2 760.2	19 10
Ligurta(Spur) Tyson(Spur)	788.3	31
Harqua(Spur) Crag(Spur)	849.4 856.0	39
Hassayampa(Spur)	867.6 870.2	12
Norton	884.9	
Tolleson	$895.7 \\ 902.0$	

	EAST- WARD	EAST- Timetable No. 117				
Capacity of siding	t	June 2, 1946	from			
in car lengths	Mile Post Location	Litchfield Branch	stance f			
	E.S.	STATIONS	Dist			
74 Y	P 889.7	TO LITCHFIELD	5.0			
	894.7	LITCHFIELD PARK	1 0.0			
		(5.0)	The second second			

					7	VELLT	ON SUBI	OIV	ISIO	N				5
			U = EVENTALD AND	ASTWA	RD				- 6		LWT9AE'		WEST	WARI
	THE	off side	SECOND CLASS			FIR	FIRST CLASS			3116	Timetable No. 117	from	FIRST CLAS	
	of sidings lengths	MATQD att	846 Freight	844 Freight	842 Freight	8 Augus	6 Argon	aut	Mile Post Location		June 2, 1946	Distance f	5 Argonaut	
	* .	ture inches	Leave Daily	Leave Daily	Leave Daily	platform.	Leave I	aily		I	STATIONS		Arrive Daily	1
68	WIP	See A	PM 5.45	AM 9.35	AM 2.25		f 5.	18	770.0		TO WELLTON	85.7	PM f 10.45	
69	P	AT ESTADO	5.52	9.42	2.32		5.	24	773.1		3.1 ASHER	82.6	10.40	
63	P	A LINE OF THE R	5.57	9.47	2.37			28	776.4		TACNA	79.3	10.35	
69	P	ANSA A F	6.03	9.53	2.43	THE STATE OF	f 5.		780.1		3.7 GAEL	75.6	f 10.30	
63	P		6.10	10.00	2.50			42	783.8		COLFRED	71.9	10.23	
67	P	or lives	6.18	10.08	2.58			48	788.6		PEMBROKE	67.1	10.17	
V 79 E 67	P	ANTE	6.28	10.18	3.08		f 5.	VI THE	792.6		TO MOHAWK	- 63.1	f 10.11	I For
63	P		6.36	10.26	3.16		6.		795.9	E	3.3 KIM	59.8	10.02	
64	P		6.43	10.33	3.23	0 1.15		10	800.5	System	STOVAL	55.2	9.56	
94	P		6.52	10.42	3.32		f 6.		806.2	Block 8	DATELAND	49.5	f 9.49	1
127 6 63	WP	Au Young	7.10	11.00	3.50		f 6.		811.9	matic B	TO AZTEC	43.8	f 9.40	10
94	P	2000	7.20	11.10	4.00		6.		815.8	utoma	MUGGINS	39.9	9.34	
63	P	TO A WINDOW	7.28	11.18	4.08			36	819.7	Y	STANWIX	36.0	9.29	
V 100 E 72	WOP	to a late	7.40	11.30	4.20		s 6.		826.1		TO SENTINEL	29.6	s 9.22	
76	P		7.48	11.38	4.28		6.		829.6		TRIGO	26.1	9.10	-
61	P	to Hand	7.55	11.45	4.35		6.		833.1		TARTRON	22.6	9.05	
65	P		8.05	AM 11.55	4.45	TO LET	7.	124	839.9		6.8 PIEDRA	15.8	8.56	
64	P	nit de la constant	8.14	PM 12.04	4.54	FVD I	0.00		845.5		THEBA	10.2	8.49	97
63	P	A J IVES	8.22	12.12	5.02	Harry I		17	850.3		4.8 SMURR	5.4	8.43	7-1
Yard BF	Limits WOTYP		8.35 PM	12.25 PM	5.15 AM	rue to	s 7.		855.7		TO-R GILA	0.0	8.35 PM	
			Arrive Daily	Arrive Daily	Arrive Daily		Arrive I	- 150			(85.7)		Leave Daily	1
Total Li		وزوية	(2.50) 30.25	(2.50) 30.25	(2.50) 30.25	138,03	(2.0)	9	M. C		Time over District		(2.10) 39.55	

# YUMA VALLEY RAILROAD

(Somerton).

	EAST-	3/4	WEST- WARD
Capacity of sidings in car lengths	Mile Post Location	Timetable No. 117  June 2, 1946	
570	0.000	STATIONS	Distance from Gadsden
Yuma yard P	0.0	TO-R YUMA	21.0
20	1.0	U.S.R.S.	20.0
23	8.5	WILLETTS	12.5
25	15.0	SOMERTON	6.0
Auros	21.0	GADSDEN	0.0
		(21.0)	

# SPECIAL INSTRUCTIONS

Southern Pacific Company Rules and Regulations of the Transportation Department, Air Brake Rules, and Special Instructions in Tucson Division Timetable govern on YVRR.

Trains will not exceed speed 15 MPH except must not exceed 8 MPH over trestle at U.S.R.S.

Impaired side clearance at Spillway, MP 10.25.
At Yuma, normal position of junction switch will be for YVRR main track.

RULE 93: Yard limits are established at Yuma. U.S.R.S. yard, Yuma, and Ludy Spur must not be used. Track out service and must not be used east of MP 16

ADDITIONAL STAT	TONS	
NAME	Mile Post	Capac-
Ludy(Spur) Spillway(Spur)	3.0 10.2	25 8

southern best to be a few many indicated that the best and the lands

6			-	PICAC	CHO S	UBDIV	ISION	10		1		-	
WESTWARD		E	ASTWA	RD				Œ5	AWI	EAS		10	
FIRST GLAGS		ble No. III	date of First Class BRAID TORE						ti e	Tin	netable No. 117		Distance from Phoenix
Capacity of sidings in car lengths	A BONORIA	400 J. 3044	2 Sunset Limited	4 Golden State Limited	48 Mail and Express	44 Californian	6 Argonaut	370 a. o. n.	Mile Post Lecation	818	June 2, 1946	an gele et al num	
strict mine		HEGITA	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily Ex.Sun.,Mon	quality and	t shows	STATIONS		
BKWP	10.7	HOTLES	PM 11.40	PM 10.00	AM 9.40	AM 8.10	48	286	906.0	TO-R	PHOENIX	Þ	0.0
BKWP BKWOTYP	8.58	REPREA	11.45	10.03	9.44	8.14		7.30	907.0	TO-R	PHOENIX YARD	[1]	1.0
P	D.01	ANDAY	11.51	10.08	9.51	8.21	Line	7.37	911.1	No. 2	KENDALL		5.
79 YP	0.315	ežin.	PM 11.59		f 10.00		100	7.43	914.4	то	TEMPE		8.4
P	4.15	wester		1000	50.0	Lar Inc.	0.000	08.50	915.3	dist.	TEMPE JCT.		9.5
P	1,10	anohiw:	N	288.8	Este Man		10.750	88.6	917.1	BLD	NORMAL JCT.		11.1
Yard Limits 78 WYP	2.29	and dispersion	f 12.17	10.25	s 10.18	f 8.40		7.55	921.8	то	MESA		15.8
81 P	0.00	1000	12.21	10.28	10.22	8.43		7.58	923.6	25.A	McQUEEN		17.6
80 P	2.22	ARTECEN	12.30	10.36	Two areas were to	f 8.51		8.06	929.3	то	CHANDLER		23.3
76 P	8.00	GAN, ANTA	12.36	10.42	10.43	8.59		8.14	934.3	1523	SERAPE		28.3
67 P	8.25	BUTTA	12.41	10.47	10.48	9.04		8.19	939.0	01.7	SANTAN		33.0
67 P	6,18	magant	12.46	10.52	10.57	9.09		8.24	943.2	то	DOCK		37.2
72 P	0.00	xmilian	12.56	11.03	11.08	9.21		8.36	953.2	BS.T	BLACKWATER		47.2
118 P	E-cit	anifes.	1.02	11.09	11.14	9.27		8.42	958.2	7.10	POSTON		52.2
73 WP	120	SIGNE	1.13	11.13	f 11.30	f 9.40		s 8.55	962.0	TO SE	COOLIDGE		56.0
32 P	2.00	MONTEN		(JHE3	f20.6			4,35	966.4	Sy Sy	RANDOLPH		60.4
67 P	LAT	ANTINA	1.23	11.23	11.40	9.50		9.06	971.4	S Blo	TOPAZ		65.4
100 3 98 WOIYP	3.01	Addir	1.32	11.32	f 11.50	10.00	AM 9.43	9.15	979.7 936.7	Automatie	PICACHO		73.7
72 P	14	navere	1.36	11.36	11.54	10.11	9.47	9.19	940.7	Auto	OCATILLA		77.
90 P	0.0	1.50	1.39	11.39	11.57	10.14	9.50	9.22	944.2	то	WYMOLA	物质	81.2
71 P		Culto			Bull work			Attended to the least	947.9	A MOUNT OF	MONTROSE		84.9
V 84 E 87 WP		Johnson Steen	1.46	11.46	PM 12.04	10.21	10.01	9.29	951.4	то	RED ROCK		88.4
67 P									954.3		AVRA		91.
174 YP			1.53	11.53	12.11	10.28	10.10	9.36	958.4	то	NAVIŠKA		95.
69 P			1.57	PM 11.57	12.15	10.32	10.14		962.2	-	MARANA		99.
94 P	NG/C	orestate de la como	LA EYERGE		12.18		distribution		964.6		PAPAGO		101.
164 WP	o molitica		2.01	12.01	12.21	10.37	10.21	9.46	966.9	то	RILLITO		103.
93 P	MEN SERVER	ANTIN NO TRANS	el del di		THOUSAND S	10.01	10.151		969.9	Marine .	SABINO	20	106.
83 P	Summ Jupace	THE CLIEN	2.06	12.06	12.26	10.42	10.26	9.51	972.1		CORTARO		109.
93 P	20,00	d spilling b	Patra Saul	n ubla Lad	lames .			2,02	974.7	Date - In	KINO		111.
7 83 2 88 P	d Historia	a availonat, ta za	2.11	12.11	12.31	10.47	10.31	9.56	977.4		JAYNES		114.
2 88 P	A symple Su	harte litates and	2.15	12.15	12.35	10.51	10.35	Secretary and the	981.2	то	STOCKHAM	5	118.
Tucson yard BKWCOITYP		and the left school of	s 2.25	s 12.25	s 12.45	8 1 1.00	s 10.45	s 10.10	983.9	TO-R	TUCSON	H	120.
BRIIOUITE			Arrive Daily	Arrive Daily	THE RESERVE AND ADDRESS OF THE	Arrive Daily	Arrive Daily	Arrive Daily		1	(120.9)		
			(2.45) 43.95	(2.25) 50.03	(3.05) 39.21	(2.50) 42.67	(1.02) 44.90	(2.40) 44.90	O'CE TO	Тт	me over District		W
AT A THE REAL PARTY.		NAME AND ASSOCIATION	43.95	60.03	39.21	42.67	44.90	44.90	ALTER OF THE	Aver	age Speed per Hour.		

RULE 5. Schedule time and train-order time for eastward trains at Phoenix Yard, and for westward trains at Stockham apply at and of double track

at end of double track.

Second main track between east end Phoenix Yard and east switch Kendall, may be used by freight trains at speed not to exceed 25 MPH when authorized by train order. Single track rules apply.

RULE S-72. Exceptions: Nos. 4 and 2 are superior to No. 5.

RULES 86 and 93. Second-class trains, extra trains and engines must be clear of main track and insulated joints at meeting and passing points for Nos. 1, 2, 3 and 4.

AD	DITIONAL FLAG STOPS TO	RECEIVE OR DISCHA	ARGE REVENUE PAS	SEMUENS
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency
4 2	Chandler	El Paso	• • • • • • • • • • • • • • • • • • • •	Daily Daily

RULE 5. Schedule time and train-order time for eastward trains at Phoenix Yard, and for westward trains at Stockham apply at end of double track.

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AL	DITIONAL FLAG STOPS TO	RECEIVE OR DISCHA	RGE REVENUE PAS	SENGERS
Train	At	Receive To (or Boyond)	Discharge From (or Beyond)	Frequency
3	Chandler		El Paso	Daily Daily

No. 5 stop on flag at Picacho for Gila line passengers only.

8			PICAC	CHO SU	JBDIV	ISION					
		EASTW	ARD								
		29 N.10 18	SECOND CLA	ASS				转点		Timetable No. 117	from
Capacity of sid		Y Table	1	854 Freight	852 Freight	904 Freight	856 Freight	Mile Post Location		June 2, 1946	Distance from Phoenix
			BRESHOA	Leave Daily	Leave Daily	Leave Daily	Leave Daily			STATIONS	
В	3KWP			824	19.	Date 1	112-1-1-2	906.0		TO-R PHOENIX	0.0
BKWO			LLULL		05-87	12.15	COLVE	907.0	Ţ	TO-R PHOENIX YARD	1.0
	P				cu a	12.25	Philip.	911.1	7	KENDALL	5.1
79	YP			induced)	(1)	12.35	QEST, L	914.4	Ţ	TO TEMPE	8.4
	P							915.3	-	TEMPE JCT.	9.3
THE RE	P							917.1		NORMAL JCT.	11.1
78 Yard Limi					NEW YES	1.05	19-21-0	921.8	1	ro MESA	15.8
81	P			The last		1.15	S STOL	923.6	-	McQUEEN	17.6
80	P			with a st		1.25		929.3	?	TO CHANDLER	23.3
76	P		eig i i i	LELES	2010	1.33		934.3		SERAPE	28.3
67	P		08,0			1.41		939.0		SANTAN	33.0
67	P				1000	1.49	TE-ORT	943.2	7	TO DOCK	37.2
72	P				ENT	2.08	Skut	953.2		BLACKWATER	47.2
118	P		TREAL		VE.O.	2.17	PEON T	958.2		POSTON	52.2
73	WP		10000		2-11	2.40	12.00 feet	962.0	System	TO COOLIDGE	56.0
32	P							966.4	A Sy	RANDOLPH	60.4
67	P				EF-D.	3.18		971.4	Block	TOPAZ	65.4
V 100	OIYP		15006	PM 4.30	AM 9.20		12.35	979.7 936.7	Automatic	TO PICACHO	73.7
8 98 WC	P		THE PARTY	4.40		3.50	12.45	940.7	Auto	OCATILLA	77.7
90	P		( G, G)	4.47			12.52	944.2		TO WYMOLA	81.2
71	P		7	4.55				947.9		MONTROSE	84.9
W 84	WP		DS. O.L.	5.02	10.01		1.07	951.4		TO RED ROCK	88.4
E 87	P		1	5.02	10.10	N Death real		954.3		AVRA	91.
174	YP		TELOT	5.15	TOTAL SPINE	THE SHAPE	A T A Market	- Noncommen		TO NAVISKA	95.4
10000			(4.5)	5.32	1.40	A STATE OF				MARANA	99.:
69	P		1	5.37		T R CHE	Visit Visit St.	Secretary.		PAPAGO	101.
94	P		(0.0)	5.42				F 5-2-550		TO RILLITO	103.
164	WP			5.48		The state of the s	The second secon			SABINO	106.9
93	P		PERMIT	5.53		10125	The state of the s			CORTARO	109.
83	P									KINO	111.
93 W 83	P		T 78.877	5.58					-	JAYNES	114.
E 88	P		-	6.03					-	3.8	b 118.
Tucson yar	P rd			6.10 6.30 PM	11.10 11.30 AM	5.09 5.25 AM	2.04 2.20 AM			>	120
BKWCOL	TYP			Arrive Daily	A CONTRACTOR AND THE				-	(120.9)	
	-		CONTRACTOR	7.0000000000000000000000000000000000000	OF RELIGIOUS AND PRINTED AND ADDRESS.				-	Time over District	
	*		100	(2.00) 23.20	(2.10) 21.41	(5.10) 23.21	(1.45) 26.52			Average Speed per Hour	

RULE 5. Schedule time and train-order time for eastward trains at Phoenix Yard, and for westward trains at Stockham apply at end of double track.

Second main track between east end Phoenix Yard and east switch Kendall, may be used by freight trains at speed not to exceed 25 MPH when authorized by train order. Single track rules apply.

RULES 86 and 93. Second-class trains, extra trains and engines must be clear of main track and insulated joints at meeting and passing points for Nos. 1, 2, 3 and 4.

ADDITIONAL STAT	TIONS	My substitute	
NAME	Mile Post	Capac- ity	
Tovrea(Spur)	911.8 912.9	· <u>i</u>	
Falfa	925.4 926.1 931.0	22 40 43	
Pozo(Spur) Olberg(Spur) Peak		14	

					FICA	UNU	SUBDIVISION					9
ELW.	V.ER .		ASTWA				TESW VIE.	ord alldan	WESTWARD			
		SE	ECOND CLASS		FIRST CLASS	gg Timetable No. 117		from	CFRES	FIRST	CLASS	s/bags0
	ity of sidings ar lengths	856 Freight	854 Freight	852 Freight	6 Argonaut	Mile Post	June 2, 1946	Distance from Picacho	5 Argonaut	E .		
		Leave Daily	Leave-Daily	Leave Daily	Leave Daily		STATIONS	RSSUBJE	Arrive Daily	LUIZ.	7	79
Ya	rd Limits BKWOTYP	PM 9.15	PM 1.10	AM 6.00	AM 7.35	855.7	TO-R GILA	81.0	PM s 8.25			- E-75
62	P	9.25	1.20	6.10	7.42	859.1	COLEDON	77.6	8.19			
74	P	9.42	1.37	6.27	7.50	865.1	TO BOSQUE	71.6	8.11			
62	P	9.49	1.44	6.34	7.55	869.1	ocapos	67.6	8.05			
73	P	10.05	2.00	6.50	8.00	871.8	SHAWMUT	64.9	8.01			
72	YP	10.20	2.15	7.05	f 8.07	874.6	TO ESTRELLA	62.1	f 7.56			
64	P	10.30	2.25	7.15	8.12	879.4	BUCHAN	57.3	7.50			
63	P	10.38	2.33	7.23	f 8.17	883.7	MOBILE	53.0	f 7.44			
62	P	10.45	2.40	7.30	8.23	888.4	정 ENID	48.3	7.36			
63 110	P	10.53	2.48	7.38	8.29	892.8	9 HEATON	43.9	7.30		1100	IniT
146	WP	11.10	3.05	7.55	s 8.40	897.8	TO MARICOPA	38.9	s 7.22			
61	P	11.25	3.20	8.10	8.47	902.9	LIKIM	33.8	7.10			
70	P	11.33	3.28	8.18	8.52	907.7	4.8 BON	29.0	7.05			
63 Var	d Limits	11.41	3.36	8.26	8.57	912.5	NUNEZ	24.2	7.00			
88	WP	11.51 PM	3.46	8.36	s 9.10	918.8	TO CASA GRANDE	17.9	s 6.50			
61	P	11.58 AM	3.53	8.43	9.16	923.7	ARIZOLA	13.0	6.38	i i i i i i		
63	P	12.05	4.00	8.50	9.21	928.4	TOLTEC	8.3	6.32			
74 100	P	12.13	4.08	8.58	s 9.35	933.1	TO ELOY	3.6	s 6.25	lor, Job i	aberli bi	1
98	WOIYP	12.35 AM	4.30 PM	9.20 AM	9.43 AM	936.7	TO PICACHO	0.0	6.15 PM	14/14/16	1 (150/1	oliwa
10.5		Arrive Daily	Arrive Daily		Arrive Daily		(81.0)		Leave Daily		T. Hiller	May 1
		(3.20) 24.30	(3.20) 24.30	(3.20) 24.30	(2.08) 37.96		Average Speed per Hour	onwind.	(2.10) 37.38	SOUGH SHIP	mus Con	00003

ADDITIONAL STA	TIONS	
NAME	Mile Post	Capac-
Seco(Spur)	921.0	13

AD	DITIONAL FLAG STOPS TO RECEIVE	E OR DISCHAR	GE REVENUE PA	SSENGERS
Train	Auther gold Atur, August a	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency
6	Toltec	Tucson Yuma	Yuma Tucson	Daily Daily

No. 5 stop on flag at Picacho for Gila line passengers only.

Hardler, Cars and permitted on open deck of traylle broad are injured likely for Afflia.

MULE 30 must be complied with between Christons Branch function scribes and Jay Conscillated durall on Emmissed Capper Conversion Induced.

Detween Price and Christons: Look out for regional indicates.

- sport and sport start start sport sport

		EAST- WARD	Timetable No. 11	WARD	
Capacity of sidings in car lengths		ost	June 2, 1946	Distance from Christmas	
		Mile Post Location	Christmas Branch	rance	
	TOTAL PARTY	MJ	STATIONS	Dist	
81	P	923.6	McQUEEN	86.9	
72	P	927.0	TO GILBERT	83.5	
		932.0	HIGLEY	78.5	
		935.6	GERMANN	74.9	
	P	938.1	RITTENHOUSE	72.4	
-	P	941.6	QUEEN CREEK	68.9	
	P	949.8	MAGMA	60.7	
27	WP	959.0	TO FLORENCE	51.5	
	Р	969.0	10.0 PRICE	41.5	
	P	975.2	COCHRAN	35.3	121
***	P	983.1	ZELLWEGER	27.4	
Ya	rd Limits P	987.8	TO-R RAY JCT.	22.7	. 7
Later 1		994.9	BRANAMAN		
2 [	Y	999.7	4.8 BURNS	10.8	
	BKWOYP	1000.2	TO-R HAYDEN JCT.	10.3	
Yard Limits	P	1000.2	TO HAYDEN	8.4	
		1010.5	CHRISTMAS	0.0	

		EAST-	Timetable No. 117	WEST- WARD
Capac	ity of sidings	ti a	June 2, 1946	from
in car lengths	car lengths	Mile Post Location	Creamery Branch	mal
	ME	STATIONS	Distance from Normal Jct.	
79	79 WYP	914.4	то темре	2.1
10.0		915.4	CREAMERY	1.1
E.T		916.5	NORMAL JCT.	1 0.0
	10	MURS	(2.1)	

	EAST-	Timetable No. 117	WEST-
Capacity of sidings	June 2, 1946		Distance from West Chandler
in car lengths	Mile Post Location	Tempe Branch	Cha
	NA P	STATIONS	Dist
P	915.3	TEMPE JCT.	7.7
.0	917.7	PETERSON	5.3
8_1	920.1	HELENA	2.9
	923.0	WEST CHANDLER	0.0

At Hayden Jct. when train-order office is open, signal governs movement of trains and engines between Christmas Branch junction switch (1584 feet east of Hayden Jct.) and Hayden Jct. train-order office. Movements between these points are authorized by signal being placed in proceed position after being called for by one long, one short and one long sound of whistle. When train-order office is closed, movements may be made between these points "With Caution" if intervening track is seen to be clear.

Normal position Christmas Branch junction switch is for Ken-

Normal position Christmas Branch junction switch is for Kennecott Copper Corporation Railroad. Westward trains and engines via Kennecott Copper Corporation Railroad and via Christmas Branch must stop to clear Christmas Branch junction switch before proceeding as authorized above.

Kennecott Copper Corp'n R. R. between Hayden Jct. and Hayden Mills is operated by the Tucson Division.

Speed of trains must not exceed 15 MPH

Speed of trains must not exceed 15 MPH.

Grade Hayden Mills to Hayden Jct. 2.2%. Impaired overhead and side clearance at Hayden Mills

Smelter. Loaded cars not permitted on open deck of trestle beyond ore bins at Hayden Mills.

RULE 99 must be complied with between Christmas Branch junction switch and Ray Consolidated derail on Kennecott Copper Corporation Railroad.

Between Price and Christmas: Look out for rocks and landslides.

ADDITIONAL STA	TIONS	
NAME	Mile Post	Capac- ity
Wooley(Spur) Winkelman(Spur)	984.6 1003.5	5 8

THE

# PICACHO SUBDIVISION

EA	STWA	RD			CHAN	EAGU	WE	STWAR	ED
The ofference	FIF	RST CLASS	t g	Timetabl	e No. 117	from s	FI	RST CLAS	s
Capacity of sidings in car lengths		378 Mexican Express	Mile Post Location	June	2, 1946	Distance from Nogales	379 Mexican Express		*10100
98955550	· ·	Leave Daily Ex. Sunday	contact to	STAT	TIONS		Arrive Daily Ex. Sunday		
ge BKWCOITYP	cock if a	AM 11.40	983.9	TO-R TUCSON	TO-R TUCSON	65.9	PM s 4.50		931277
BKWCOITYP	1.4	er loe sa haa		Via SHOP YARD	T&NRR JCT.	65.1			1 (1)
24	30.0	nes I to a 1 (vio)	991.6	CON	.9 SAIR	58.2			1 g
55 P		PM 12.02	993.8	XA	2.2 VIER	56.0	4.28		1 11
62 P	OF U. o.	f 12.17	1002.4	TO SAHU	ARITA	47.4	f 4.13		1 1 10
56 P		12.41	1016.3	CA CA	3.9 NOA	33.5	3.49		
57 WP		s 12.51	1021.1	TO AM	ADO	28.7	s 3.40		1 10 000
56 P		12.59	1025.6	4	VEZ	24.2	3.31		
57 P		f 1.14	1034.2	OT OT	8.6 ERO	15.6	f 3.16		
Nogales yard BKWOTP		8 1.45 PM	1049.8	1	5.6 ALES	0.0	2.45 PM	TOTAL OF	119
43394		Arrive Daily Ex. Sunday	1 8		5.9)	0.0	Leave Daily Ex. Sunday		W Har
20/200	-1.1.5	(2.05) 31.44	100	Time ove	er District eed per Hour		(2.05) 31.44		

No. 378 and No. 379 stop daily at MP 1028.1, and stop on flag at Continental.

Rule S-72 Exception, No. 378 is superior to No. 379. Passenger trains use shop yard route, Tucson yard. Freight trains use T&NRR Jct. route, Tucson yard.

ADDITIONAL STATIONS									
NAME	Mile Post	Capac- ity							
Continental(Spur) Morales(Spur) Tubec(Spur)	1010.4 1012.1 1029.7	12 18 2							
Silva(Spur)	1037.3	55							

| 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2

12			BOW	IE SU	BDIAI	SION						
	CHAWTERY	EASTWA	RD					THAN	Ta	ASSESSED VALUE		
	BRAIS THAT	Jim Jing P	RST CL	ss	77		00000	To the	Timetable No. 117			В
Capacity of sidings in car lengths		918 4	Mail and Express Calif		6 Argonaut	2 Sunset Limited	4 Golden State Limited	Mile Post Location	June 2, 1946			Distance from Tucson
			Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily			STATIONS		
Tucson yard BKWCOITYP	A De	A MARIE MARIE	PM 1.05	11.15	11.05	AM 2.40	AM 12.35	983.9.	TO	-R TUCSON	)	0.0
63 P		10	1.20	11.32	11.24	2.56	12.50	993.8		RANKIN	No.	9.9
63 P			f 1.34	AM 11.44	11.38	3.07	1.01	1003.3		9.5 VAIL	500	19.
79 WP	, 8t	P I will !	f 1.55	PM 12.05	11.58	3.24	1.18	1012.6		PANTANO	Track	28.
94 Yard Limits 85 CIYP	1-1-6	I P VELLEY	f 2.15	12.25 PM	PM 12.20	3.45	1.35 AM	1023.6	TO	-R MESCAL		39.
77 P	(a)	E 1045		100	12.26	3.51		1028.2		CHAMISO		44.
118 Yard Limits 70 BKWOP			nd	PE A	s 12.40	s 4.06	a to	1032.5 1032.6	TO	BENSON		48.6
62 P			ENV	(HD	12.48	4.13	S. 1	1035.8		FENNER		51.8
83 P		A 11 63 1		10	12.55	4.20	10.1	1038.5		curvo		54.5
75 WP	3		1 201	LI-GH	1.02	4.27	La Principal	1040.8	TO	2.3 SIBYL		56.
00 P			TE AT	ia)	1.08	4.32	North Control	1043.9 1044.5		TULLY		59.
63 P			Tetalnisa -	rvo emit.	1.13	4.37	8, E	1047.3	210	OCHOA		62.
65 P			ara vaq es		1.21	4.44		1050.8		LANCHA		66.
65 65 YP					s 1.30	4.51	en 1 sen.	1053.9	то	DRAGOON		69.
81 P	A MARKET NEW YORK	WALL TO THE PARTY OF THE PARTY	HE I		1.36	4.57		1058.3		MANZORO	PILL!	73.
90 P	arget of the	201414	1		f 1.44	5.02	g mheariff	1063.9	TO	COCHISE	0/19	79.
64 P	W. A. Har Tonne	in the street			1.50	5.07	ALCOHAL.	1069.6	System	5.7 HADO	SELES	85.
68 WP		ROW STEEL ST	to diffe!		s 2.00	5.15		1074.7	TO	WILLCOX		90.
61 P	81 1 1 1 1		Det 18		2.05	5.20		1079.4	Automatic Block	DRURY		94.
99 P	The second second				2.11	5.25		1082.6	mati	3.2 RASO		98.
64 P	en * lumi musos n	THE TWO IS		Texa	2.16	5.30		1087.7	Auto	ALRICH		103.
64 P		the first of			2.20	5.34		1091.0		LUZENA		106.4
63 P			ator mot		2.25	5.39		1094.5		CHOLLA		109.
110 Yard Limits 113 BKWCOYP	COUNTY CITY	United States of the States of		THE LET		s 5.50		1098.4	TO	-R BOWIE		113.
54 P					2.46	5.56		1102.6		HOLT		118.
63 P	DOOR NOT THE				2.50	6.00		1106.6		OLGA		122.
63 P					2.54	6.04		1110.2		XARRO		125.
BKWCOYP	M THE CAS AND	pair of spring	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	38(1)	f 2.58	6.08		1114.2	TO	4.0		129.
64 P	Williams I Williams I And	IN DOMESTIC VITA	- In 199		3.06	6.13		1117.6	1	BAWTRY		133.
74 P	HERE!				3.14	6.20		1121.8		VANAR		137.
70 P	GICEN TO A WARREN			Total Control	3.21	6.26		1125.0		CAVOT		140.
66 59 YP	MERSE TO SERVICE				f 3.31	6.34		1128.9	TO	3.9		144.
52 P					3.37	6.39	7	1132.7		MONDEL		148.
33 P					3.41	6.43		1136.5		CONRAD	_	151.
52 P					3.48	6.47		1140.8		GARY		156.
53 P *	The state of the s		T		3.48	6.52		1143.9		93.1 PYRA		150.
Yard Limits BKWCOYP			-		s 4.05 PM			1148.3	Tre	O-R LORDSBURG		163.
DANGOTT			Arrive Daily	Arrive Daily		Arrive Daily	Arrive Daily	1140.3	(10	(163.7)		103.
			(1.10)				376			Time over District		
- 440			34.00	(1.10) 34.00	(5.00) 32.74	(4.20) 37.76	(1.00) 36.66	-	А	verage Speed per Hour		

RULES 86 and 93. Second-class trains, extra trains and engines must be clear of main track and insulated joints at meeting and passing points for Nos. 1, 2 and 4.

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							BOW	IE SU	BDIVI	SION					13
										WI	ESTWAR	D			-23
0		Time	table No. 117		в				100	Lag er Fil	RST GLASS				
Mile Post Location			Tune 2, 1946		Distance from Lordsburg	43 Californian	Sunset Limited	\$82 ******	168	1000	888				egen) pl
	Ī	٠. ٤	STATIONS	1		Arrive Daily	Arrive Daily	Alfailt emoci-	the part	Shell went	whise ment				
983.9		TO-R	TUCSON 9.9	1		12.100	1,1/6	70 NA	MA.	180	JHG				3, -
993.8		-	RANKIN 9.5	No.	7 8 8 8	Re (	Governed b	w Current	Timetable	and					-
1003.3		-	VAIL 9.3	2 Track	15/00/17		Bulletins of				The same of the sa			+	375
1012.6			PANTANO 11.0	ack	NAME OF TAXABLE PARTY.	.5/56/00.									00
1023.6		TO-R	MESCAL 4.6	-)	124.0	PM 3.45	PM 8.35	100		THE REAL PROPERTY.				-	1 32 1
1028.2			CHAMISO 4.3		119.4	3.35	8.25	7	200 / 1						11
1032.5 1032.6		TO	BENSON 3.2		115.1	s 3.25	s 8.15		Annual Control		27.0			THE REAL PROPERTY.	7 557
1035.8			FENNER 2.7		111.9	3.11	8.04		72		190	Territoria			177
1038.5			CURVO 2.3		109.2	3.07	8.00		2:08		ne n - II				114
1040.8	-	TO	SIBYL 3.1	I. K	106.9	3.02	7.55		21 4	.01	0.0		Figur		100
1043.9 1044.5			TULLY 2.8		103.8	2.57	7.50		88.8		ACD TO				007
1047.3			OCHOA 3.5	11 0	101.0	2.53	7.46			FW.	200				258
1050.8			LANCHA 3.1		97.5	2.48	7.41		OF STREET	ise -	2012				10
1053.9		TO	DRAGOON 4.4	EK.	94.4	f 2.43	7.37	4	00.75		200				10
1058.3			MANZORO 5.6	M	90.0	2.35	7.30		100		LEGIS I				10
1063.9	1	TO	COCHISE 5.7		84.4	f 2.28	7.24		RIE		EDO			_	100
1069.6	tem		HADO 5.1		78.7	2.20	7.18		200		Table 1				20
1074.7	k Sys	TO	WILLCOX 4.7		73.6	s 2.13	7.12				-00.00		200		- 11
1079.4	Block	-	DRURY 3.2		68.9	2.05	7.07	E3(0.5)	-/ 1-7		- BOLD E				10
1082.6	Automatic	71111	RASO 5.1		65.7	1.58	7.02		62.5		DE DI				100
1087.7	Auto		ALRICH 3.3	. 6	60.6	1.50	6.55	E HALL			68.07				10
1091.0			LUZENA 3.5		57.3	1.44	6.50				AE DI		0 -1		88
1094.5		THE STATE OF	CHOLLA 3.9		53.8	1.40	6.46		07.0						827
1098.4		TO-R	BOWIE 4.2		49.9	s 1.35	s 6.40				DOMO:		870	Jan Jan	2 973
1102.6			HOLT 4.0		45.7	1.21	6.30				1000 may 100			A VINCEN	A11
1106.6			OLGA 3.6		41.7	1.17	6.26		03.6		1 130B3			_	- VIII
1110.2		-	KARRO 4.0		38.1	1.13	6.22				27.17		- 3		(10)
1114.2		TO S	AN SIMON		34.1	f 1.08	6.18		0.50				7		- 10
1117.6			BAWTRY 4.2		30.7	1.01	6.14		nove		1000		17700	3 107 24 34	80
1121.8		-	VANAR 3.2		26.5	12.56	6.09		30 B		08.11		17		48
1125.0		×	CAVOT 3.9		23.3	12.50	6.05		39.6		1366				PT
1128.9		TO	STEINS		19.4	f12.42	5.58				<u> </u>		1	_	70.
1132.7		-	3.8 MONDEL		15.6	12.35	5.52		40.3		1990		118.	_	68.7
1136.5		-	3.8 CONRAD		11.8	12.30	5.47		20.3		55.23				.02
1140.8		-	4.3 GARY		7.5	12.24	5.42	-\ ,	6.10		EE.C.		1	1	18
-1143.9			PYRA		4.4	12.17	5.38		417		0.6-3-1-	ADDITIONAL ST	ATIONS	TW C	153
1148.3		TO-R L	4.4 ORDSBURG		0.0	12.10 PM	5.32 PM		EE.3		12.46	NAME	Mile	Capac	122
Y-MAY-	-		(124.0)			PM Leave Daily	PM Leave Daily		ME	COLUMN TO A STATE OF THE PARTY	- 435	NAME	Post	Capac- ity	-
	-	Time	e over District		-		(3.03)	STATE STITE	Chall erby/s	COLUMN THE	Station of the	Polvo (Spur Wilmot (Spur Esmond	987.7 990.7 998.6	13	
		Averag	e Speed per Hou	r		(3.35) 34.14	40.66	South .	852	(00.1) (00.1)	Will I		1 990.0		1

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14					BOM	IE SU	BDIAL	SION						
				EASTWA	RD									
				SE SE	COND CL	ASS						Timetable No. 117		Ħ
	y of sidings r lengths			866 Freight	964 Freight	864 Freight	962 Freight	862 Freight	960 Freight	Mile Post Location		June 2, 1946		Distance from Tucson
				Leave Daily			STATIONS							
Tuese	on Yard COITYP			PM 6.00	PM 4.05	AM 11.30	AM 7.00	AM 3.00	AM 1.00	983.9		TO-R TUCSON		0.0
63	Р			6.28	4.40	AM 11.58	7.35	3.28	1.35	993.8		PANKIN	No.	9.9
63	P			6.50	5.05	PM 12.20	8.00	3.50	2.00	1003.3		9.5 VAIL	50	19.
79	WP			7.12	5.35	12.42	8.30	4.12	2.30	1012.6	1	PANTANO	Track	28.
N 94 Yard S 85	d Limits CIYP			7.45	6.10 PM	1.15	9.05 AM	4.45	3.10 AM	1023.6	1	TO-R MESCAL		39.
77	P			7.55		1.25	TE W	4.55	68.6	1028.2		CHAMISO		44.5
2 118 Yard V 70	l Limits BKWOP			8.15		1.45		5.15	ELLE V	1032.5 1032.6		TO BENSON		48.
62	P			8.27		1.57	100 84	5.27	11.6	1035.8		FENNER		51.8
83	P			8.38		2.08	-11/88	5.38	TUE	1038.5		curvo		54.5
75	WP			8.48		2.18	Lucia	5.48	AO.E	1040.8		TO SIBYL		56.8
100	P			8.58		2.28	100	5.58	Y-6.E	1043.9 1044.5		TULLY		59.9
63	P			9.05		2.35		6.05	2.53	1047.3		OCHOA		62.7
65	P			9.15		2.48	L (L)	6.15	84.5	1050.8		LANCHA		66.
C 65 7 65	YP			9.25		3.00	A.H.BO	6.25	EAS 1	1053.9		TO DRAGOON		69.
81	P			9.34	1	3.09		6.34	CE-E	1058.3		MANZORO		73.
90	P			9.43		3.18	( 1 44	6.43	History 1	1063.9	E	TO COCHISE		79.
64	P			9.52		3.27	1.349	6.52	Olforn -	1069.6	System	5.7 HADO		85.
68	WP			10.00		3.35	a Library	7.00	ELK I	1074.7		TO WILLCOX		90.
61	P			10.08		3.43	1.00	7.08	80/3	1079.4	satic Block	DRURY		94.
99	P			10.20		3.55	Library	7.20	36.3	1082.6	Autom	RASO		98.
64	P	*		10.28		4.03	210	7.28	OEst	1087.7	Y	ALRICH		103.
64	P			10.34		4.09	A. Nu	7.34	BD/E	1091.0		LUZENA		106.
63	P			10.40		4.15	4.27	7.40	OFFE	1094.5		CHOLLA		109.
110 Yard I 113 BK	Limits WCOYP			11.00		4.35		8.00	CEL :	1098.4		TO-R BOWIE		113.
64	P			11.09		4.44		8.09		1102.6		HOLT		118.
63	P			11.15		4.50	7.50	8.15	9254	1106.6		OLGA		122.
63	P			11.21		4.56		8.21	81.1	1110.2		XARRO		125.
63 BK	WCOYP			11.28		5.03		8.28	4317-1 3	1114.2		TO SAN SIMON		129.
64	P			11.40		5.15	Lin	8.40	10.1	1117.6		BAWTRY		133.
74	P			PM 11.51		5.26	i i i i	8.51	elemin.	1121.8		VANAR		137.
70	P			12.02		5.37		9.02	DC-ST	1125.0		CAVOT		140.
66	YP			12.20		5.58	1111	9.20	SEPORE I	1128.9		TO STEINS		144.
62	Р			12.28		6.05	Luchii.	9.28	24.321	1132.7		MONDEL		148.
63	P			12.33		6.10		9.33	UBC-1551	1136.5		CONRAD		151.9
62	P			12.40		6.17	8 10	9.40		1140.8		GARY		156.2
63	P			12.46		6.23		9.46	11.4.4	1143.9		PYRA		159.3
Yard Li BKV	imits WCOYP	9344		1.00 AM		6.35 PM	1 10	10.00 AM	O. Sale	1148.3		TO-R LORDSBURG		163.7
	7.000	(1992)	- 6993	Arrive Daily			(163.7)							
1 17	0.000		(Extro-cut)(E)	(7.00) 23.38	(2.05) 19.05	(7.05) 23.10	(2.05) 19.05	(7.00) 23.38	(2.10) 18.32			Time over District Average Speed per Hour		

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# BOWIE SUBDIVISION

120	E	ASTWA	RD	a to you			WESTWARD		
2 1		SECOND CLASS	FIRST CLASS	15 0	Timetable No. 117	8	FIRST CL	ASS	SECOND
	pacity of sidings in car lengths	884	382	Mile Post Location	June 2, 1946	Distance from	381		883
150		Freight	Passenger	on the	Globe Branch	Ā	Passenger		Freight
		Léave Daily Ex. Monday	Leave Daily	SEL.	STATIONS		Arrive Daily	The state of	Arrive Daily Ex. Sunday
E 110	Yard Limits 3 BKWCOYP	8.00	PM 3.00	1098.4 1098.1	TO-R BOWIE	136.1	PM s 1.00	1,1	PM
50	P	8.25	3.17	1107.4	9.3 ESCALA	126.8	12.36		5.30 5.00
13	P	8.50	f 3.33	1117.8	10.4 TANQUE	116.4	f 12.17		4.40
42	P	9.05	3.44	1125.1	HAECKEL	109.1	12.04 PM		4.20
38	P	9.25	s 3.57	1132.6	SOLOMON	101.6	s 1 1.52	Was	3.57
52 X	ard Limits WP	10.20	s 4.10	1137.5	TO SAFFORD	96.7	s 11.40	77.30	3.30
34	P	10.35	s 4.20	1140.6	THATCHER	93.6	s 11.28		2.25
28	P	10.55	s 4.31	1145.6	TO PIMA	88.6	s 11.18	7	2.05
62	P	11.14	4.35	1146.7	DUBLIN	87.5	11.14	den)	1.50
59	P	11.45	f 4.46	1153.0	cork	81.2	f 11.04	100	1.25
59	P	PM 12.03	s 4.59	1159.3	TO FT. THOMAS	74.9	s 10.53	01917	1.03
17	WP	12.18	f 5.08	1164.2	GERONIMO	70.0	f 10.43	70.10	12.50
54	P	12.35	f 5.19	1170.1	5.9 BYLAS	64.1	f 10.31	r mil-5	12.35
52	P	12.57	f 5.31	1176.8	CALVA	57.4	f 10.19		12.20 PM
52	P	1.40	5.59	1191.0	14.2 DILI	43.2	9.51	bolds	11.40 AM
52	WP	2.10	s 6.20	1201.0	TO SAN CARLOS	33.2	s 9.30		11.10
43 V	P ard Limits	2.50	f 6.47	1213.5	CUTTER	20.7	f 9.06	ita se	10.40
-	BKWOTP	3.20 PM	s 7.10	1221.5	TO-R GLOBE	12.7	8.45 AM	00116	10.10 AM
13	P			1226.2	RADIUM	8.0	A grand de		
-	WYP	Description of	direction of	1231.9	TO-R MIAMI	2.3	AND ENGINE		T to guil
27	Spur	temper as	ands falls tracking	1233.0	INSPIRATION JCT.	1.2			
14	Spur	Arriva Dati	Company of the last of the las	1234.2	LIVE OAK	0.0	Ten Eller		of towns
4/1	II, 20. Sulma	Arrive Daily Ex. Monday	Arrive Daily	THE PER	(136.1)	10101 20	Leave Daily		Leave Daily Ex. Sunday
	:awalle	(7.20) 16.87	(4.10) 29.69		Time over District		(4.15) 29.11	Kal	(7.20) 16.34

No. 381 and No. 382 stop on flag at Peridot. Between MP 1184 and MP 1196: Look out for rocks and landslides.

All train and engine movements must be preceded by section crew from Inspiration Jct. to Live Oak.

TATE OF THE PROPERTY OF THE PR

Treats on water treats to be train on different may cheer about a country on without by crewards business member of signal on sidiling. The country of the c

ADDITIONAL STATIONS									
NAME	Mile Post	Capac-							
Lone Star (Spur) Glenbar Ashurst Peridot Reppy Pinal (Spur) Burch (Spur) Claypool (Spur)	1148.9 1154.8 1197.3 1207.8 1219.3 1227.3	21   i2 3 9							

RULE 2. Watch Inspectors: S. A. Pope, Manager of Time Service...65 Market St., San Francisco 

 S. A. Pope, Manager of Time Service
 .65 Market St., San Francisco

 Yuma
 J. H. Huber

 Phoenix
 H. H. Howard

 Tucson
 Grunewald & Adams

 Tucson
 R. W. Hemkin

 Nogales
 G. C. Jackson

 Lordsburg
 E. L. Preis

 Safford
 Adolph J. Cubitto

 Globe
 J. G. Cubitto

 Miami
 J. G. Cubitto, Jr.

RULE 2 (A). Watches subject to inspection must be presented to a designated inspector for comparison, and certification on standard watch certificate between the first and fifteenth of each month.

RULE 10 (H). Where yellow signals are displayed within limits of a length of track over which a maximum speed is designated in train order or timetable bulletin and no maximum speed is otherwise specified for the particular section of track protected by these yellow signals, trains must not exceed fifteen miles per hour there-

RULE 10 (J). Certain slow boards have the word "SIGNAL" above the figures. Such slow boards in approach to a distant signal indicate the speed that must not be exceeded while engine is passing the distant signal three-fourths mile beyond slow board, unless distant signal can plainly be seen to be displaying proceed indication; and such slow boards in approach to a home signal indicate the speed that must not be exceeded while approaching home signal three-fourths mile beyond the slow board, until indication of home signal can plainly be seen.

Slow boards for westward trains at MP 922.8 and MP 1041.5

also have lamp attached which displays yellow light at night. This light is to call attention to slow board, and is not a yellow signal

referred to in Rule 10 (H).

RULE 14. Other engine whistle signals: For diverging route, o - o. For siding, — o —

RULE 15. Second paragraph is changed to read as follows: "The explosion of two torpedoes is a signal to proceed with caution for not less than one mile."

RULE 17. Mars Signal Light on engines shall be used when engine is moving at night, and in foggy or stormy weather. It must be dimmed or extinguished approaching passenger stations, and at other points as prescribed by rules.

RULE 26 is revised to read as follows:

"A blue signal or sign reading 'Men at Work' displayed on engineer's side of cab of an engine or at one or both ends of a car, cut of cars, or at the rear of a train, indicates that workmen are under or about same and the engine, car, cut of cars, or train must not be coupled to nor moved by any method, nor other equipment placed so as to obstruct the view of the blue signal or sign.

"Blue signal or sign must not be removed by any person except the one placing the signal or sign, or someone authorized by him to

do so.
"On designated tracks (repair, cleaning, servicing, etc.) where employes work, a sign reading 'Stop-Men at Work' must be placed on the track and switches leading to such track locked; and from sunset to sunrise a blue light must be displayed. Employes placing such sign and locking switches, only are authorized to change same.

"When repair work is to be done under or about an engine or cars in a train, where movement of same would endanger employes engaged in such work, and a blue signal or sign is not available, the enginemen of engine handling train must be notified by employe movement. After work is completed the same employe must notify enginemen." engaged in such work and a complete understanding had to prevent

RULE 28. In double track territory signals will be placed to right of track according to direction of movement of train to be flagged Trains in opposite direction will not be required to observe signals so placed.

RULE S-72. Westward trains are superior to trains of the same class in the opposite direction, except as shown on Pages 6, 7 and 11.

RULE 99. Third, fourth and sixth paragraphs of Rule 99 are changed to read as follows:

If recalled from a point less than one-half mile from rear of his train, he must, if safety to train requires, leave lighted fusee at proper intervals and, if conditions warrant, also place two torpedoes

on the rail three rail-lengths apart.

"If not recalled, one-half mile from rear of train he must place one torpedo on the rail; one mile from rear of train, or when recalled, if one-half mile or more from rear of train, he must place two torpedoes on the rail three rail-lengths apart. If conditions such as curves, foggy or stormy weather or descending grade require, he must continue back a greater distance, placing two additional tor-

"When flagman has reached the required flagging distance and has placed torpedoes as required, he may then return to the single torpedo where he must remain until relieved by another flagman or recalled. When recalled, he may remove the single torpedo and return, leaving lighted fusee at such intervals as conditions warrant."

RULE 105. Abbreviations used for sidings: "E" for Eastward, "W" for Westward, "M" for Middle, "N" for North, "S" for South. Sidings designated as Middle, North or South, may be used by trains in either direction.

RULE 210 is modified to provide that when using revised train-order Form CS-2600, which has the words "Repeated and Complete" printed at bottom of the form, operator will write or typewrite the time and his or her last name in the space provided on the order, after it has been made complete by train dispatcher.

RULE 221. First sentence of third paragraph is amended as

follows:
"When a train order is to be delivered to an approaching train,
"When a train order is to be delivered to an approaching train, or orders are held for any other train in the same direction, except those originating, the operator must not clear the signal."

RULE 271 is revised to read as follows:

"Automatic block signals will bear number plates attached to signal masts. Automatic semaphore home signal arms will be painted red and will be distinguished by white stripe near end of semaphore arm. The number plate on a distant light signal will bear the prefix 'D'

"Interlocking signals will not bear number plates.
"Absolute signals will not bear number plates, but will have plates bearing the letter 'A'.

"Interlocking and absolute semaphore home signal arms will be painted red.

"Aspects as illustrated or referred to in these rules are shown by the position of semaphore arms or color of lights, or both, as seen from an approaching train. Other combinations may be used."

RULE 295 is revised to read as follows: "Interlocking or absolute signals may be made part of the automatic block system adjoining interlocking or centralized traffic control limits. When so arranged they will be designated 'semi-automatic' and distinguished by a plate bearing the letters 'SA'. Trains stopped by such signals must observe interlocking or centralized traffic control rules within the interlocking or centralized traffic control limits, and Rule 509, 509 (F) or 509 (J), as the case may be, within the automatic portion of the block beyond interlocking or centralized traffic control limits."

RULE 297. Following paragraph is added: A train, if delayed in the block, must proceed with caution to the next signal.

# RULE 505. AUTOMATIC BLOCK SYSTEM

PUSH BUTTONS

Where signal protection is provided for movements from an adjacent track to main track, push buttons and pilot lights are installed in box near each of the two signals, with time-release feature, to clear signals on one track when the control circuit on the other track is occupied.

Train on main track to let train on siding pass may clear signal on siding by pressing button bearing number of signal on siding. Train on siding to let train on main track pass should not pass Approach Circuit sign, but when necessary to do so, may clear signal on main track by pressing button bearing number of signal on main

Pilot light will appear after time-release has operated and signal

has cleared.

Further instructions posted inside push-button box.

# ELECTRIC SWITCH LOCKS

Where electric switch locks are installed, lock box door must not be opened if movement is to be made into a track leading from main track until engine or car is standing within 150 feet of the switch; or if movement is to be made from such track, or through a crossover to a main track, until switch indicator indicates block clear on opposite track.

After lock box door is opened lock lever cannot be moved to opposite position to release switch for hand throwing until indicator

in lock box indicates "unlocked"

Lock lever must not be returned to locked position until all movements over the switch are completed, switch returned to normal

position and locked.

When switch indicators indicate "block occupied", instructions posted inside lock box for operation of push button to start timerelease must be complied with if movement is to be made to main track while approach circuit is occupied by another train, in addition

to providing flag protection when necessary.

Emergency lock release to be used only in case of electrical or mechanical failure, as indicated by failure of time-release to function after several minutes. When necessary to break seal on emergency lock release, dispatcher's permission must first be obtained, and movement made only after flag protection provided on both tracks.

Low type electric locks, such as are applied direct to lever of hub type switch stands, function as above except that the removal of the switch padlock has the same effect as opening the lock box door. Instead of being equipped with an "unlocked" indicator, these locks have a pilot light that indicates by illumination when the lock is unlocked.

RULE 535. A spring switch with facing point lock must not be trailed through unless switch target displays the letters "SS" in normal position, or switch has been lined for the movement.

When a signal with triangular number plate protecting a spring

switch with facing point lock displays stop indication, member of crew must open and close spring switch by hand, removing any obstruction. If signal does not then display proceed indication, switch must be hand thrown for the movement.

When a spring switch or spring derail is hand thrown, trainman so setting same must again set it for normal position after move-ment has been completed, unless he has arranged for another train-

man to do so.

RULE 536. Wheels of tenders must not be considered as engine wheels.

# RULES 705 and 707 are revised to read as follows:

"LETTER TYPE INDICATORS

4705. Within block system limits, at locations specified in time-table, letter type indicators may be used. These indicators will be attached to an automatic block signal, and will display indications by illuminated letters, which will supersede the superiority of trains within defined limits.

"S—Take siding (Fig. 1).
"M—Proceed on main track (Fig. 2).

"Other letters, or combinations of letters may be used.
"S-707. When the letter 'M' is displayed, train is thereby given superiority over all trains to the fouling point of the switch at which an opposing train may enter siding or receiving track, and will hold main track at the station, but must observe any restrictions that may be imposed by automatic block or other signals.

"D-707. When the letter 'M' is displayed approaching a siding or at the initial switch of a siding, train will hold main track; when displayed on a siding near the leaving end of siding, train will enter main track and in either case train is thereby given superiority over all following trains to the point designated in timetable but must observe any restriction that may be imposed by automatic block or other signals."

# GENERAL REGULATIONS

RULE 824. Instructions for setting hand brakes:

At points where hand brakes must be set on freight trains such brakes must be securely set, using standard brake club to set staff brakes, after train or cut has stopped, unless yardmen immediately take charge and yard engine is coupled to cars. Any employe releasing any of these brakes must set as many others to replace them.

RULE 836. Cars moved from one station to another ahead of engine on descending grade must be chained to the engine. Switching movement on descending grades must be protected by a derail. When practicable engine must be kept on descending grade end of

RULE 837. Fifth paragraph is revised to read as follows: Cars standing on grade must not be coupled onto, in descending direction, without knowing sufficient hand brakes are set to prevent uncontrolled movement of any such cars should coupling fail or cars not be securely coupled together.

RULE 849. Steam valve on Pullman troop sleepers cannot be opened while train is in motion, and when such car is on rear of train steam line must not be cut in any portion of train until valve is closed on the car on each side of coupling to be opened, to avoid burning by steam.

RULE 827. TRAIN INSPECTION

Engines running light on descending grades must stop for in-

spection at freight train inspection points.

Trains, including military trains, made up in part of freight cars or caboose equipped with cast iron wheels are required to comply with rules and timetable instructions applying to freight trains as they relate to stopping for train inspection, and speed restrictions.

Cars bearing placards denoting contents are explosive, inflammable, poisonous or otherwise dangerous, must be given careful inspection at all points where train inspection is made.

# MISCELLANEOUS

In all cases where it is necessary to make a short move with heavy freight train to reach water or oil column, including that required to spot second engine of double-headed train, engine must be cut off before spotting at column.

Helper service:

No helper engine will be placed behind wooden underframe cars or cabooses.

Engines weighing more than 235,000 pounds on drivers will not

be placed behind steel underframe cabooses.

In no case will more than one helper engine be placed behind steel underframe cabooses.

One helper may be placed on head end, but not more than two engines will be used on head end of any freight train when tonnage exceeds more than 75% of rating for both engines. When additional helpers are required, they will be placed back in train and cut in ahead of any cars of wooden frame construction.

When one Diesel helper is used it will be placed on head end; when two Diesel helpers are used, one will be placed on head end and one on rear end; when one Diesel and one steam engine are used as helpers the Diesel will be placed on head end and steam engine

helper on the rear.

Air will be cut in on all helper engines, and engine must not be

cut off when train is in motion.

When used as helpers in rear of train, AC, AM or MM class engines must not be coupled together, nor may more than two F, Mt, or heavier class, or more than three smaller classes be coupled together. When coupled, larger engines must be placed ahead of smaller engines. If tonnage requires more power, additional helpers of not to exceed two coupled in each case, must be separated by at least four cars.

Helpers must not be operated backing except in emergency, and in such case engines should not push through a backing engine

if it can be avoided.

Helper engines coupled in middle or rear of train must be cut off from forward portion before taking water. On grades road engine and helper must not be cut off from train at the same time without sufficient hand brakes being securely set.

4 (a). For the purpose of pushing trains out of yards:

No engine will be placed behind wooden underframe caboose or other wooden frame equipment. Engines weighing more than 235,000 pounds on the drivers will

not be placed behind steel underframe cabooses. Air will not be coupled through pusher engine.

Yard engines regularly so used will be equipped with Russell-Jordan device to hold the coupler pin from dropping, thus making it unnecessary for employes to uncouple the pusher engine when cutting off.

In no case shall the knuckle be removed, or closed, or cutting lever temporarily fastened in release position on a pusher engine,

as means of preventing coupling being made.

Unless local conditions require, it will not be necessary to stop trains to detach pusher engines.

7. Capacity of sidings between clearance points is based on an average car length of 49 feet not including engines and caboose.

10. When a sign reading "Occupied Outfit Cars" is attached to switch lock, the outfit cars must not be coupled to, nor moved, until occupants have been notified, and permission given by foreman or his representative.

20. Handling of freight cars in trains behind passenger cars is prohibited except passenger equipment may be placed in head end of mixed trains when carrying personnel and equipment in connection with military and naval movements. This does not refer to a baggage, express, or mail car, or a caboose.

Baggage, express, mail, refrigerators or other head end cars must not be handled on rear of passenger trains unless trainmen

can pass through them.

All cars handled in passenger trains must be equipped with

steel-tired or all-steel wheels.

When necessary to handle passenger equipment, except official cars in freight trains, it must be placed next to caboose, provided rear-end freight cars in train will permit.

21. Employes are warned that it is dangerous to ride on top or sides of cars where impaired clearance exists.

There are numerous structures with impaired clearance on yard and station tracks on the division, and employes must be

familiar with their locations and avoid personal injury.

25. Electric lanterns may be used for displaying white light only, except may be used by herders for displaying green lights.

### SPEED RESTRICTIONS

\*List of CCB (Cross counter-balanced) engines:

All P-8 class, except eng. 2470: F-1 class: 3611, 3612, 3615, 3616, 3617, 3619, 3620, 3625, 3629,

3634, 3636, 3638, 3643, 3647, 3652; F-3 class: 3653, 3654, 3655, 3656, 3657, 3658, 3660, 3661, 3662,

F-3 class: 3653, 3654, 3655, 3650, 3650, 3657, 3650, 3660, 3661, 3663, 3664, 3665, 3666, 3667; F-4 class: 3668, 3670, 3671, 3672, 3674, 3675, 3676, 3677, 3678, 3679, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3692, 3693, 3695, 3696, 3697, 3698, 3699, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3709, 3711, 3715, 3716, 3717; F-5 class: 3718, 3720, 3721, 3722, 3723, 3727, 3728, 3732, 3734, 3732, 3734, 3732, 3734, 3732, 3734, 3734, 3735, 3736, 3764, 3765, 3766, 3767.

3737, 3742, 3752, 3753, 3755, 3760, 3762, 3763, 3764, 3765, 3766, 3767,

3768, 3769;

All T&NO F-1 to F-5 class.

AC-6 class: 4126, 4127, 4128, 4130, 4131, 4132, 4133, 4135, 4136, 4137, 4138, 4139, 4140, 4141, 4142, 4143, 4144, 4146, 4147, 4148, 4149, 4150.

MAXIMUM SPEED PERMITTED CERTAIN ENGINES, SUBJECT TO FURTHER RESTRICTIONS AS SHOWN IN SPEED RESTRICTIONS TABLE

Maximum speed for C-15-17-32, Mk-10-11 and MM-3 class engines

35 MPH when handling freight and mixed trains.

Maximum speed for S and SE class engines, 20 MPH, but must not exceed speed permitted freight and mixed trains and light en-

Maximum speed for gas-electric cars running light forward, 50 MPH, but must not exceed speed permitted when handling pas-

senger trains.

Engines backing must not exceed 20 MPH on all curves, and

when approaching road crossings at grade.

Engines coupled tender to tender must not exceed speed per-

mitted same engines running light backward.

Engines with tenders having water capacity 7,000 gallons or less, except Classes 70-R-1 and 70-SC-1, must not exceed 50 MPH.

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Diesel electric switch engines running forward, with train or light, may make maximum speed as shown below, except must not exceed speed permitted freight and mixed trains. These engines when backing may make speed shown below, except must not exceed speed permitted E class engines backing where such permitted need is less than 30 MPH.

speed is less than 30 MPH:	Runnii With 7	ng Forward	Running Backw With Train or Li	
DES-200 DES-1 to 7, 100 to 107	30 40	30 40	30 40	andqn
Maximum speed of engines und under own steam or hauled in train When all weight has been remo drivers	wed from	t exceed any one	pair of	
When all weight has been remo from any pair of drivers When engine truck is removed. When main rod only is removed When side rod only is removed When both main and side rods. When hauled in train with all removed when hauled in train with all removed.	are remo	only on	e wheel 30 30 30	MPH MPH MPH MPH MPH
MAXIMUM SPEED P. CERTAIN EQ			H	мрн
Trains handling wooden pile-diwith boom disconnected steam shovels and ditchers wheels; and car-top ditched down cables are removed:  On tangent main tracks exc SPMW 4044  On tangent branch tracks  On all curves 5 MPH less Where slow boards in shown on slowboards, exc is 15 MPH or less be grains handling locomotive conected and light end forward in this manner except in extending the steam of t	and hear transporrs when cept	rted on the blocking speed au MPH less slow the boom to too be too by the boom to be the by the by the boom to be the by the boom to be the by the boom to be the boom to b	thorized. ess than ndicated boards. discon-	35 25 25
On tangent main tracks On curves and on branch to the trains handling locomotive craceither end forward (to be	tracks	h boom	n place,	20 15
when practicable): On tangent main tracks On curves and on branch tr Trains handling steel pile-driv	racks			25 15
freight train speed.  Trains handling relief outfit wi On tangent main tracks On tangent branch tracks, (Relief outfits 7014 and 7 on any branch except Creamery branches.) On all curves, 5 MPH les Where slow boards in shown on slow boards, cated is 15 MPH or less b	except. 7025 mus Litchfie ss than s place, 5 except v	t not be ld, Nogs speed au MPH l	operated ales and thorized. ess than eed indi-	35 25

Maximum speed provided for passenger trains, will apply to No. 370 when that train consists entirely of passenger equipment, or cars with steel wheels, including box cars with steel wheels, or caboose with steel wheels, except that maximum speed of 60 MPH must not be exceeded.

Passenger trains handling steel wheel box cars in series 5810 to 5874, and foreign line steel wheel box cars equipped for movement in passenger trains, but not equipped with high speed trucks, must not exceed 60 MPH. Wooden equipment must not be handled in regular passenger trains. Extra passenger trains handling wooden coaches or chair cars must not exceed 40 MPH.

If consist of train includes both wooden and steel passengercarrying cars, the wooden cars must be kept together and handled

on rear.

Maximum speed of deadhead equipment or passenger trains with standard caboose is 50 MPH.

Trains consisting of engine and caboose only restricted to freight train speed.

RULE 14 (e). As specified below, — — - sounds of whistle will be indication that flagman may return from east as prescribed by Rule 99: Wellton, Trains on Phoenix Line.

Litchfield, Trains on Litchfield Branch.

RULE 21(C). At Phoenix and Gila, incoming engines may display indicators until arrival at roundhouse.

RULE 83. Identification may be made on double track between Yuma and East Yard; Dome and Wellton; Phoenix and Phoenix Yard; to be applied at end of double track. Reduce speed sufficiently to permit identification and Rule 14 (k) will apply.

RULE 83 (A). At the following stations, only trains indicated will register:

East Yard. Westward trains entering yard tracks.

Phoenix. First-class trains, except No. 370.

Operator, Phoenix, will report arrival and departure of all trains on the Wellton Subdivision, originating or terminating at Phoenix, to operator Phoenix Yard, who will enter on Wellton Subdivision

register and verify by repeating registration.

Operator, Phoenix Yard, will report arrival and departure of No. 370 to operator, Phoenix, who will enter on register and verify

by repeating registration.

RULE 83 (B). At open train-order offices trains may register by ticket as follows:

East Yard...... Westward trains entering yard tracks.

Phoenix Yard. First-class trains, except No. 370.

RULE 93. Yard limits in which the provisions of Rule 93 will apply are established at the following points:

West MP		East MP
731.51	Yuma	737.83
	" (Yuma Valley R. R.)	0.22
769.13	Wellton	771.00
100000	" (Gila Line)	771.00
900.96	Phoenix	908.79
854.20	Gila	857.70

RULE D-97 (A). Will apply between Phoenix and Phoenix

RULE 99. First-class trains must move with caution on passenger tracks at Phoenix, and trains standing on these tracks need not protect against following first-class trains, but must comply with Rule 99 (A).

RULE 103 (A). A flagman must precede all movements over: Yuma, 1st, 2nd, 3rd and 4th Sts. Dateland, U.S. Highway 80.

RULE 103 (B). Back-up hose must be used on leading car when shoving cars on Government tracks at Airport at Yuma.

RULE 104. Normal position of rigid switches at the end of double track and at junctions, is as follows:

Phoenix...... Switch in eastward main track, immediately west of First Avenue, Phoenix, from main track to eastward main track.

Phoenix.........West end double track, for westward track. Litchfield ..... Litchfield Br., for Phoenix line. Yuma......Yard track on Madison Ave., for YVRR

main track.

Normal position of west crossover switch from yard track 1 to eastward main track at East Yard, is for tail track.

# DERAILS IN MAIN TRACK:

Litchfield Park, 70 feet west of west switch of team track.

RULE 105. Following tracks are designated for use as sidings:

Fowler..... Track north of main track. Mohawk......First track north of main track, for eastward trains

Second track north of main track, for westward trains, and connects with eastward siding at each end.

Track north of main track, for westward trains; Track south of main track, for eastward trains. Track north of main track, for eastward trains; Aztec..... Sentinel.....

Track south of main track, for westward trains.

RULE 221. Phoenix is train-order office for first-class trains except No. 370.

RULE D-251. Applies to the following tracks: Westward track, East Yard to Yuma. Extra trains and engines must receive proceed signal from yardman (white flag by day, green light by night) before leaving East Yard, before passing Signal 7341, and before passing Signal 7331.

Both tracks between Phoenix and Phoenix Yard.

# RULE 505. AUTOMATIC BLOCK SYSTEM

Yuma: Eastward freight trains must not pass Signal 7328, and westward trains, except first-class, must not pass Signal 7341 unless proceed signal received from yardman (white flag by day, green light by night).

East Yard: Westward trains entering yard tracks must not pass Signal P-7375 unless proceed signal received from yardman (white flag by day, green light by night).

Phoenix: Crossing—AT&SF Wye: If signal indicates "stop" trains and engines must stop, and if wye is clear of intersecting movement, may then proceed as prescribed by Rules 509(F) or 509(3), but must provide flag protection on intersecting track unless derail is known to be in derailing position.

Phoenix: Main track has no block signal protection between Signal 9061 and end of double track; and double track has no block signal protection from west end to Signal 9064.

RULE 510. The following block signals equipped with triangular number plate displaying the letter "P", have included in their control limits some special protective device:

Eastward Signals	Protection	Westward Signals
P- 7372) P- 7374	Spring switch, end double track, East Yard	P- 7375
P- 7532	Spring switch, end double track, Dome Spring switch, east end siding, Pembroke	P- 7535 P- 7889
P- 7956 P- 9052	Spring switch, west end siding, Kim Spring switch, west end pass gr. lead, Phoenix	
	Spring switch, east end double track, Phoenix Yard.	P- 9075

RULE 516. Overlap posts:

23rd Ave. Phoenix......Middle of Siding Eastward trains.

Middle of Siding Westward trains.

#### SPRING SWITCHES RULE 535.

Spring switches equipped with facing point locks are located as follows, and speed indicated must not be exceeded while trailing through the switches:

Location	Normal Position	MPH	
Vuma	. West end bridge, end double track Westward track	6	
Yuma	East end bridge, end double track Eastward track	6	
East Yard	End double track	25	
Dome	. End double track Eastward track	35	
Pembroke	East end siding	25	
Kim	West end siding	25	

Spring switches not equipped with facing point locks are located as follows, and speed indicated must not be exceeded while passing over the switches in facing movement, or in trailing through

Location	Normal Position	MPH	
Phoenix Main track at passenger lead	Passenger lead	15	
Phoenix Yard. East end double track	Westward track	15	

Spring switch is also located on engine lead at Yuma. Switch position indicator at spring switch on engine lead, Yuma indicates position of switch points, and does not indicate track occupancy. When indicator displays red aspect careful examination of switch must be made before passing over switch.

# RULE 605. INTERLOCKING

Wellton: Limits extend from westward interlocking signals 4,000 feet east of station building on Gila line and on Phoenix line, to eastward interlocking signals 400 feet west of station building on westward track and 1,000 feet west of station building on eastward track.

The derail at east end of siding is electrically locked, and can be operated by trainmen only when released by signal operator.

Switches and derails to spurs leading from westward main track, just west and east of station building are hand-thrown, but must not be used until permission is secured from signal operator.

# RULE 705. LETTER TYPE INDICATORS

Indicators located as follows:

Illuminated	On Post	Approaching	Authorizes and Requires
Letter	at MP		Movement as Follows
MS	769.2	Wellton	. Proceed to interlocking limit.

# RULE 740. ABSOLUTE-PERMISSIVE BLOCK SYSTEM

YUMA-COLORADO

Limits extend from absolute signals west of Colorado River bridge to absolute signals east of Colorado River bridge. Speed must not exceed 6 MPH until engine has passed spring switch at opposite end of bridge.

Trains stopped by absolute signal west of bridge must obtain permission from yardmaster, and also make inspection of spring switches at each end of bridge before proceeding.

# GENERAL REGULATIONS

RULE 824. Instructions for setting hand brakes:
Yuma: Freight trainsFour brakes on east end.
East Yard: Freight trainsTwo brakes on east end.
Five brakes on west end

nd. Phoenix Yard: Freight trains..... Two brakes on west end, Two brakes on east end.

RULE 825. Cars or engines must not be set out on siding at Horn.

#### RULE 827. TRAIN INSPECTION

Freight trains must be inspected at each water stop. When conditions are favorable, and in the judgment of conductor and engineer it is safe to do so, and when additional stops can thereby be avoided, freight trains may run between water stops without stopping for inspection, provided the distance is not over 60 miles, except freight trains and light engines may run between Aztec and Yuma, for inspection. This does not relieve trainmen from making inspection when stops permit, or whenever it is necessary in the judgment of conductor or engineer.

# AIR BRAKE RULES

PASSENGER TRAINS

RULE 39. Running air-brake test not required of eastward passenger trains approaching Crossing—AT&SF Wye.

Incoming passenger enginemen will leave automatic air brakes

set on trains at Phoenix and Yuma after final stop has been made.
Outgoing enginemen will release brakes on signal from carmen,

Spring audich is also located on engine innd & Citera, bwitch position inductor at appring legible on original bud Yama indicates partition of switch polate, and does not polaticle track orta-party. When indicator displays red support oursital manifolding of

this signal to be given only after all switching has been done.

# MISCELLANEOUS

1. Aztec and Sentinel, water for engine purposes is treated and must not be taken for domestic use except as follows:

Aztec, water rack, or by closing valve between treater and water column.

Sentinel, water rack.

Aztec, westward freight trains take water when possible and take water at Sentinel only when it will avoid delay west of there.

Sentinel, eastward freight trains take water and fill water car, and take water at Aztec only when necessary or when it will avoid delay at Sentinel.

Saddle and Buckeye, emergency water stations, take only

enough water to reach next water station.

5. Litchfield, gate at entrance Airplane spur is locked with Government lock, and to gain entrance it will be necessary for engineer to sound a long and short blast of steam whistle and the watchman on duty will take care of the opening and closing of the

Litchfield Park, Boswell spur is protected by gate, which must be kept closed and locked when not in use.

 Engines must not use Seaside Oil Co. spur at Buckeye.
 Derail on Government spur at Dateland, 360 feet west of main track switch.

11. Phoenix, Santa Fe and Southern Pacific trains may jointly use tracks at east and west end of Union Station. Yard and light engines must take every precaution possible to avoid delaying first-class trains on all tracks within Union Station zone. Trains will approach switch at entrance to Union Station tracks prepared to stop and will proceed only when track is known to be clear.

# LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

Mile Post	Location	Description	AW test
778.0 891.0	0.1776	YUMA - PHOENIXGila River bridgeAqua Fria River bridge	Side
2,0100		RESTRICTIONS THAN MAIN TRACKS	With Caution Not Exceeding MPH
turr *	outs and slip-so Over, upon, or On Government	and other side-tracks, crosso witches, except:across any street crossing, Y tracks at Yuma airport (with engine backing er, turnout or slip-switch witl	15 Yuma 5 10
gine	backing	······································	10

Manassa, .... Pitest track north of mein track for

Second lines addition from a contract for accordance

★Regulated by city ordinance.

SPECIAL INSTRUCTIONS -WELLTON SUBDIVISION

SPEED RESTRICTIONS: Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

ENGINE BACKING WITH TRAIN OR LIGHT AC AM-2 MM-3 Gas-elec. Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH. SPST LIGHT ENGINE RUNNING FORWARD 33333333333333333324° 4 M. 1-18-9-23-28-1-36-57-58 1-36-57-58 10-18-19-26-27-28-29 M.K-5-6-7-8-9 F (if not CCB\*) SP T-26-32-37-40 CCB\*) SE A FREIGHT AND C-15-17-Mk-10-MM-3 35 35 WITH TRAIN - ENGINE RUNNING FORWARD F (if not CCB\*)
AC-1-2-3-6
(if not CCB\*) C-2-4-5-8-9-10-18-19-26-27-28-29 Mk-2-4 TW F (if not AM-2 PASSENGER T-1-8-9-23-28-31-36-57-58 MK-5-6-7-8-9 F (if CCB+) SP AC-4-5-7-8-9-10-11-12 AC-6 (if AC-6 (if 35,450,555,500,550 3645655665 P-8 (if P-27-CCB\*) P-7-10-12 I GS Colorado bridge

Colorado bridge

Spring switch E. end Colorado bridge-MP 733.01 Yuma

MP 733.01 Yuma-MP 734.10 Yuma

MP 734.10-End of Double Track MP 737.51

End of Double Track MP 737.51-MP 741.10

MP 741.10-MP 748.58

MP 748.58-MP 755.12

MP 748.58-Wellton, West Interlocking limit

Wellton, West Interlocking limit-MP 766.00 (Westward Track)

Wellton, through interlocking, except

Wellton, over switches to Texas Co., and Shell Co. spurs. West yard limit, Yuma-Spring switch W. end Colorado bridge Spring switch W. end Colorado bridge-spring switch E. end MP 899.00-MP 903.00 MP 903.00-Signal 9048, MP 904.77 Signal 9048, MP 904.77-End of Double Track, MP 907.91 Wellton, East crossovers.
IP 770.83, East Interlocking limit-MP 771.01.
IP 771.01-776.36.
IP 776.36-MP 777.78.
IP 777.38-MP 779.29.
IP 779.29-MP 790.00.
IP 790.00-MP 795.00. TERRITORY 772.06 Wellton. Gila. MP 770.83-MP 772.06 W
MP 772.78-MP 772.78.
MP 772.78-MP 792.50.
MP 792.50-MP 794.03.
MP 792.03-MP 795.00.
MP 795.00-MP 801.00.
MP 813.00-MP 813.00.
MP 813.00-MP 823.61.
MP 825.18-MP 825.18.
MP 825.18-MP 825.18. Litchfield Branch.... 899.00 795.00-MP 2, 3, 4 2, 3, 4 Page No.

# WELLTON SUBDIVISION

# RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Yuma to East Yard Pembroke to Mohawk Lava to Sentinel	East Yard to Pembroke Mohawk to Lava Sentinet to Gila Welton to Saddle 2 M W Gillesple to Phoenix Vard	Saddle to 2 M W Gillespie	Gila to Kim, Mohawk to Baladeli Fortuna to Yuma Phoenix Yand to 2 M E Grag 2 M W Gillespie to Welten	Blaisdell to Fortuna 2 M E Grag to 2 M W Gillespie	Kim to Mohawk
DES-1, 2, 3, 4, 5, 6, DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	7 1000 to 1022	1950 2550 3050 3250 3350	2300 2900 3600 3800 3950	1600 1400 1900 2250 2400 2500	3300 4300 5000 5300 5500	2300 2900 3600 3800 3950	1600 2100 2500 2650 2750
T-1 T-8, 9 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271 2161, 2174 and 2178. 2301 to 2310. 2283 to 2299. 2311 to 2362. 2363 to 2384. 2103. 2105 and 2106. 2385 and 2386.	2250 1600 3200 2800 3550 3600 2400 3100 2900	2600 1850 3750 - 3250 4150 4200 2750 3700 3400	1650 1150 2350 2050 2600 2650 1750 2300 2150	3700 2650 5300 4700 5850 5950 3950 5200 4800	2600 1850 3750 3250 4150 4200 2750 3700 3400	1800 1300 2650 2300 2900 2950 1950 2550 2400
P-1, 3, 5 P-1 P-4 P-6 P-7 P-8, 10 P-8, 10 P-11 P-12	{2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435,} 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415. 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477. 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491. 3100 to 3109. 3120 to 3129.	2800 3050 3150 3600 3850 3950 4200 3100 4000	3300 3500 3700 4150 4450 4600 4850 3600 4700	2000 2200 2300 2600 2800 2850 3050 2250 2900	4650 5050 5250 5950 6350 6600 6950 5150 6700	3300 3500 3700 4150 4450 4600 4850 3600 4700	2250 2450 2600 2950 3150 3200 3400 2550 3300
C-5, 8, 9, 10, 26 to 29 C-15, 32 C-17, 32 C-18 C-19 FW-1 FW-2, 3 FW-4, 6 FW-8	2513 to 2599, 2624 to 2860, 3440 to 3469 2500, 2505 to 2507. 2510 and 2511 3400 to 3409. 3410 to 3426. 2900 to 2913. 2932 to 2952. 2926 to 2931 and 2957. 2914 to 2923.	3900 2500 3100 3600 3750 3000 2400 2250 3300	4600 2900 3600 4200 4350 3450 2750 2650 3850	2900 1850 2300 2650 2750 2200 1750 1650 2450	6500 4150 5050 5900 6150 4900 3950 3750 5450	4600 2900 3600 4200 4350 3450 2750 2650 3850	3250 2050 2550 2950 3100 2450 1950 1850 2700
A-3 A-6 Vlk-2, 4 Vlk-5, 6 Vlk-7, 8, 9 Vlk-10 Vlk-11	3029. 3025, 3036, 3052 and 3057. 3000 to 3003. 3201 to 3240. 3241 to 3277. 3300 to 3324. 3295. 3297 and 3298.	2250 2350 2750 4500 5000 5500 4200 4050	2650 2750 3250 5200 5750 6350 4900 4700	1650 1700 2000 3300 3600 4000 3100 3000	3800 4000 4650 7300 8100 8900 6900 6650	2650 2750 3250 5200 5750 6350 4900 4700	1850 1900 2250 3600 4000 4500 3450 3350
10-4.0	3600 to 3652 3653 to 3667 3668 to 3769 3900 to 3911 3930 and 3931 4000 to 4048 4100 to 4125 3800 to 3811, 4126 to 4294	5700 6500 6700 6550 7600 7900 10300 10500	6700 7600 8000 7550 8800 9150 11950 12000	4200 4800 5000 4800 5600 5850 7650 8000	9300 10800 11500 10700 12500 12950 14000 14000	6700 7600 8000 7550 8800 9150 11950 12000	4700 5400 5600 5350 6200 6500 8500 8800
S-1, 2 S-3, 4, 5, 6	4300 to 4376 4385 to 4390. 4400 to 4415. 4416 to 4469. 5000 to 5048.	5400 5600 5650 6000 7600	6400 6600 6600 7000 8800	3850 4000 4100 4300 5600	9000 9300 9450 9700 12500	6400 6600 6600 7000 8800	4350 4500 4600 4800 6200
ranniv and R	Less than 45 Ms 45 Ms to 55 Ms More than 55 Ms	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

RULES 10 (G) and 10 (H). On No. 1 and No. 2 track between Park Ave., Tucson, and Polvo, signals will be placed on left of track in direction of movement.

RULE 14 (d). As specified below, — — — o sounds of whistle will be indication that flagman may return from west as prescribed by Rule 99:

Phoenix Yard-Kendall, Trains on Second Main Track.

Normal Jct., Trains on Creamery Branch.

Picacho, Trains on Phoenix Line.

RULE 14 (e). As specified below, — — — — — sounds of whistle will be indication that flagman may return from east as prescribed by Rule 99:

Kendall-Phoenix Yard, Trains on Second Main Track.

Tempe, Trains on Creamery Branch. Tempe Jct., Trains on Tempe Branch. McQueen, Trains on Christmas Branch. T&NRR Jct., Trains on Nogales Branch.

RULE 21 (C). At Phoenix, Gila and Tucson, incoming engines may display indicators until arrival at roundhouse.

RULE 83. Identification may be made on double track between Stockham and Tucson; Phoenix and Phoenix Yard; to be applied at end of double track; and on second main track between Phoenix Yard and Kendall, to be applied at Kendall. Reduce speed sufficiently to permit identification and Rule 14 (k) will apply.

RULE 83 (A). At the following stations, only trains indicated will register:

Phoenix. First-class trains, except No. 370.

Operator, Phoenix Yard, will report arrival and departure of No. 370 to operator, Phoenix, who will enter on register and verify by repeating registration.

RULE 83 (B). At open train-order offices trains may register by ticket as follows:

Phoenix Yard, First-class trains, except No. 370.

RULE 93. Yard limits in which the provisions of Rule 93 will apply are established at the following points:

West MP	has nowed mawind pirk that resigned that	East MP
900.96	Phoenix	908.79
920.45	Mesa	922.88
981.96	Tucson (No. 2 Track)	989.00
	" (No. 1 Track—Rio Grande Div.)	988.09
	" (Nogales Br.)	987.42
854.20	Gila	857.70
917.78	Casa Grande	920.05
986.84	Ray Jct	988.72
998.80	Hayden Jct	1004.90
1046.37	Nogales	1049.89

RULE 97. Extra trains must not run via Creamery Branch unless train order so specifies.

RULE D-97 (A). Will apply between Phoenix and Phoenix Yard.

RULE 99. First-class trains must move with caution on passenger tracks at Phoenix, and passenger tracks 1, 2 and 3 at Tucson, and trains standing on these tracks need not protect against following first-class trains, but must comply with Rule 99 (A).

RULE 99 (C). Will apply as follows: Christmas Branch between McQueen and Hayden Jct.

RULE 103 (A). A flagman must precede all movements over: Tovrea, Washington St.

Tempe (Creamery Branch), Mill Ave. and 8th St.

Naviska, U. S. Highway 84. Tucson, West Congress St., "South 6th Ave.,

Simpson St.

Sahuarita, Nogales Highway. Nogales, Court and Park Sts.

RULE 103 (B). Back-up hose must be used when making back up movements with cars, between Hayden Jct. and Hayden Mills, and between North and South yards and/or P. F. E. yard, Tucson.

Back-up hose must be used on leading car when shoving cars on

Government tracks at Airports at Naviska and Higley, or on Eagle Picher Spur at Sahuarita.

RULE 104. Normal position of rigid switches at the end of double track and at junctions, is as follows:

Phoenix..... Switch in eastward main track, immediately west of First Avenue, Phoenix, from main track to eastward main track.

Phoenix ... West end double track, for westward track.

Kendall ... Second main track, for first main track.

Picacho ... Phoenix line, for Gila line. Operators will han-

dle switches to and from Phoenix line, also for movements through crossovers, and west

switches of north and south sidings.

Magma......Magma-Arizona RR main track, for back track.

McQueen.... Christmas Br., for Phoenix line.
Ray Jct..... KCCRR main track, for yard track.
Hayden Jct.... Christmas line, for KCCRR line.

Tucson....... Nogales Br., via Shop Yard, for Track No. 1. Tempe...... Creamery Br., for Phoenix line.

Normal Jct.... Creamery Br., for Phoenix line. Tempe Jct.... Tempe Br., for Phoenix line. T&NRR Jct.... T&NRR wye track, for Track No. 1.

# DERAILS IN MAIN TRACK:

Christmas, 250 feet east of west switch. Nogales, 221 feet west of west switch, may be trailed through by eastward trains.

RULE 105. Following tracks are designated for use as sidings: Mesa..... Track south of main track.
Red Rock.... Track north of main track, for eastward trains; Track south of main track, for westward trains.

Track north of main track, for westward trains;

Track south of main track, for eastward trains. Jaynes.....

RULE 221. Phoenix is train-order office for first-class trains.

except No. 370.

Trains must obtain clearance before leaving Tempe on Creamery Branch.

RULE D-251. Applies to the following tracks: Both tracks between Phoenix and Phoenix Yard.

Track No. 1 and westward track from PFE yard Tucson, to Stockham. Extra trains and engines must receive proceed signal from yardman (white flag by day, green light by night) before leaving PFE yard, and before passing Park Ave., Signal 9843, and Sixth Ave., but this does not authorize trains or engines to pass Signal 9853 indicating "stop."

# RULE 505. AUTOMATIC BLOCK SYSTEM

Phoenix. Main track has no block signal protection between Signal 9060.1 and end of double track; and double track has no block signal protection from west end to Signal 9064.

Picacho: Upper unit in Signal 9377 governs movement on main track; Middle unit for north siding; Lower unit for south siding. Signal 9374 will require a two-minute interval to clear after switch on north siding is lined for movement to main track if it is desired to make an eastward movement from north siding ahead of eastward train on main track or eastward train occupying approach circuit on south siding.

Tucson: Passenger tracks 1, 2 and 3 between end of double track at MP 983.66 and Signal 9838 on Track No. 2 have no block

Westward trains must not pass east crossover switch opposite Signal 9838, just east of Tucson yard office without proceed signal from yardman, (white flag by day, green light by night) unless this switch is lined for movement on Passenger track 1.

Trains and engines finding Signal 9843 indicating "stop" may proceed into passenger tracks 2 or 3 if switches are properly lined and proceed signal from yardman (white flag by day, green light by night) is received, but must move with caution, not exceeding 12

Westward freight trains must receive proceed signal from yard-man (white flag by day, green light by night) before passing Signal 9875, and at first crossover switch west of Signal 9851.

Eastward freight trains, after passing Sixth Ave. tower and before entering freight yard, must receive proceed signal from yard-man (white flag by day, green light by night).

# PUSH BUTTONS

Push button and light on side of relay case on Signals P-9376 and P-9378 at Picacho; P-9776 and P-9778 at Jaynes.

RULE 510. The following block signals equipped with triangular number plate displaying the letter "P", have included in their control limits some special protective device:

Eastward Signals		Protection W		ward gnals
	9052	Spring switch, west end passenger lead, Phoenix. Spring switch, east end double track, Phoenix Yard	P-	9075
P- P-	9376)	Spring switch, east end south siding, Picacho	P-	9377
	need than	Spring switch, east end siding, Ocatilla	P-P-P-	9521 9587 9673
	9776)	Spring switch, east end eastward siding, Jaynes	P-	9777
	9810	Spring switch, end double track, Stockham	P-	9813

RULE 516. Overlap posts:
McQueen.....Middle of Siding Westward trains. Papago ..... Middle of Siding Eastward trains.

Middle of Siding Westward trains. Cortaro ...... Middle of Siding Westward trains.

SPRING SWITCHES

Spring switches equipped with facing point locks are located as follows, and speed indicated must not be exceeded while trailing through the switches:

Location Community and Community of the	Normal Position MPH
Picacho East end south siding	Main track 25
Ocatilla East end siding	Main track 25
WymolaEast end siding	Main track 25
Red Rock East end eastward siding	
Naviska East end siding	Main track 25
Rillito East end siding	
Cortaro East end siding	
Jaynes East end eastward siding	
Stockham End double track	Eastward track. 35

Spring switches not equipped with facing point locks are located as follows, and speed indicated must not be exceeded while passing over the switches in facing movement, or in trailing through them: Normal Position MPH Location

Phoenix	Main track at passenger		
	leadPassenger	lead	15
Phoenix Y	ard East end double track Westward	track	15

Spring switches are also located on engine leads at Tucson; and on stem of wye at Estrella, and in main track at Nogales 221 feet west of west switch.

#### INTERLOCKING RULE 605.

Picacho. Limits extend from eastward SA signals 300 ft. west of station on Phoenix line and 730 ft. west of station on Gila line, to westward SA signals 400 ft. east of station on north siding, 700 ft. east of station on main track, and 560 ft. east of station on south siding. North and south sidings are in automatic block system.

Tucson, Sixth Ave.: Limits extend from point opposite Signal 9835 on both main tracks, to end of double track, and on passenger track 1 to dwarf signal 7 feet west of west switch of passenger track 2, and on freight lead to dwarf signal 10 feet east of Sixth Ave. tower, and on middle track to dwarf signal 230 feet west of east switch, and on Independent Ice lead to dwarf signal 240 feet west of Sixth Ave. tower.

Signals prescribed by Rule 628 may be given from tower window.

PRIL and at lifet decreaver switch were of Elizable line. Lower on Estate from bowler on during Field from the angle of the same of the same from the same of the

Figh beaton and light an able of raise one Signals Polymon and Pages at Piccolin Polymon and Polymon Polymon and P

Whistle signals: Eastward passenger trains approaching tower o — o.

Eastward freight trains approaching tower — o —. Independent Ice lead to westward track —. RULE 705. LETTER TYPE INDICATORS

Indicators located as follows:

On Signal	Approaching	Authorizes and requires movement as follows:
9316	Eloy	Proceed to east end siding.
9316	Elov	Enter siding.
9349	Eloy	Proceed to west end siding.
9349	Eloy	Enter siding.
9385	Picacho	Proceed to train-order office.
9385	Picacho	Enter south siding.
9385	Picacho	. Enter north siding.
	9316 9316 9349 9385	

# GENERAL REGULATIONS

off of board RULE 824. Instructions for setting hand brakes: Phoenix Yard: Freight trains.... Two brakes on west end, Two brakes on east end. Tucson: Passenger trains......Two brakes on west end, Two brakes on east end. Freight trains ..........Fifteen brakes on west end, Ten brakes on east end. Tucson, PFE Yard: Freight trains. . Fifteen brakes on west end, Ten brakes on east end.

At Tucson hand brakes on passenger trains are to be set after engine is spotted for oil. If necessary to detach engine after these hand brakes have been released, employe before detaching engine must see that sufficient hand brakes have again been set.

Hand brakes must be securely set on all cars left at Eagle-Picher

plant, Sahuarita. Cars must not be left west of derail.

RULE 825. Cars or engines must not be set out on siding at Dock.

# RULE 827. TRAIN INSPECTION

Freight trains must be inspected at each water stop. When conditions are favorable, and in the judgment of conductor and engineer it is safe to do so, and when additional stops can thereby be avoided, freight trains may run between water stops without stopping for inspection, provided the distance is not over 60 miles, except freight trains and light engines may run between Tucson and Maricopa for inspection. This does not relieve trainmen from making inspection when stops permit, or whenever it is necessary in the judgment of conductor or engineer. On branch lines distance of 40 miles must not be exceeded.

# AIR BRAKE RULES

RULE 17. One retainer for each 120 Ms must be turned up from Eagle-Picher plant to Santa Cruz River bridge, on spur from Sahuarita.

FREIGHT TRAINS

RULE 25. Freight trains may pass Estrella westward without stopping for purpose of rear end air test if proceed signal is given from rear by trainmen, after complying with Air Brake Rule 4, and air gage indicates required air brake pressure. Speed approaching summit must not exceed 15 MPH.

If proceed signal is not given or received, train must stop and

rear end air test be made.

Air brakes must be used, and rear end test made on all movements on Eagle-Picher spur, Sahaurita.

# PASSENGER TRAINS

RULE 39. Incoming passenger enginemen will leave automatic air brakes set on trains at Tucson and Phoenix after final stop has been made.

Outgoing enginemen will release brakes on signal from carmen, this signal to be given only after all switching has been done.

sectional trydy at Alreotte at Paylota and Silgley, or on Naghr

situated to room said

# **MISCELLANEOUS**

Casa Grande, Florence, Mesa, Amado and Hayden Jct., water for engine purposes is treated and must not be taken for domestic use until treater has been shut off.

Maricopa, eastward and westward freight trains take water, and

if necessary, fill water car.

5. Tovrea, entrance to Tovrea Packing Co. plant is protected by gates, which must be kept closed and locked when not in use. Look out for rubbish and material alongside tracks around plant. Hayden, entrance to Kennecott Copper Corp'n plant is protected

by gate, which must be closed and locked at night. Coolidge, gate at entrance to Indian Service spur must be kept closed and locked when not in use.

Tucson, PFE yard, look out for ice and rubbish alongside PFE

10. Engines must not use spur at Burns.

Engines listed must not operate on tracks shown below: Class of Engine Restricted Tracks

Engines over 210,000 lbs. on drivers.....Tempe .....Tempe Milling Co. spur; Phoenix Mill spur; Gravel pit spur; Tracks 2 and 3.

Engines over 210,000 lbs. on drivers..... . Mesa. .McKellips spur; Standard Oil spur;

Texas Oil spur; Shell Oil spur; Independent Cotton and Oil spur; Mutual Cotton Oil

spur; Union Oil spur; Mesa Milling Co. Mk-Mt-GS-F-SP-AM-MM-AC.....Kendall ....River track east of spur.

Magma.....Spur. Creamery Br...All spurs. Creamery...Track east of

Creamery plant. Engines over 210,000 lbs. 

Tempe Br.... Main track. .Sahuarita . . . Across Eagle-Picher ore bins.

Load limit (car and contents): Christmas, Nogales, Creamery and Tempe Branches. . 200,000 pounds.

# LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS Mile Post Location Description

_		1 (1) (1) (1)
HEAR	PHOENIX - TUCSON	
914.0	Salt River bridge	Side
959.3	Gila River bridge	Side
975.95		Sido
983.9		Sido
984.4	Tucson Base of Signal 9844	side
	CUIDICENTAGE DE LA CONTRACTO	side
963.96	CHRISTMAS BRANCH	198 7 3
		Side
964.1	Rock cut	Side
965.56	Rock cut	Side
971.30		
to		181 3 3
971.77	Rock cuts	Side
972.4	Tunnel No. 1	Side and Overhood
972.5	Gila River bridge	Side
973.0	······································	Side
973.04	Rock cut	- Side
973.07		Side
976.0	18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	
to		
977.0		Cido
980.0		side
to		
982.0		C: J-
983.5	Rock cut	Side
985.3	Gila River bridge	····Side
985.5	Pook out	· · · · · · · Side
987.8	Por Let Weter terb	Side
988.3	Ray Jct Water tank and spout	· · · · · · · Side
988.5	Rock cut	Side
990.0	Tunnel No. 2	ide and Overhead
		side and Overhead
992.3		Side
997.4	Rock cut	Side
998.8	Hayden Jct Water column	Side
1006.5	· · · · · · · · · · · · · · · · · · ·	Side
1009.2		ide and Overhead
	NOGALES BRANCH	
988.3	Tucson Loading chute	CIA
	The state of the s	
	CDEED DECEMBRICATIONS	With Caution
	SPEED RESTRICTIONS	- Cudulon

THE THE PARTY AND THE PARTY OF	Not	Exceeding MPH
Through sidings, yard and other side-tracks, crossover	rs,	The Parties
turnouts and slip-switches, except:		15
On PFE yard tracks 1 to 6 inc., Tucson		10
On Government tracks at Naviska and Higley airports	S.	10
" (with engine backing)	) .	5
On sidings on Nogales Branch		8
On Calabasas wve		10
On Eagle-Picher spur, Sahuarita	200	10
" (with engine backing)	)	5
Through any crossover, turnout or slip-switch with e	n-	E
gine backing		10

SPECIAL INSTRUCTIONS—PICACHO SUBDIVISION

SPEED RESTRICTIONS: Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

6.7.8 MP 904.7-MP 907.91 intit MP 908.79 intit	Temporary Branch.    Part   Pa	*		1	land.	WITH	WITH TRAIN—ENGINE PASSENG	INE RUNN	RUNNING FORWARD	9		LIGHT	ENGINER	LIGHT ENGINE RUNNING FORWARD	RWARD	ENGINE BACKING WITH TRAIN OR LIGHT	SACKIN SAIN OF HT
May 1977 A. P. Word St. P. W	M. P. 947-74 East Yard Hard, Art Post Syry Branch, Chandler).  M. P. Syry Branch, Art Post Syry Branch, Chandler).  M. P. Syry Branch, Art Post Syry Branch, Chandler).  M. P. Syry Branch, Art Post Syry Branch, Chandler).  M. P. Syry Branch, Art Post Syry Branch, Chandler).  M. P.	Page 0.	TERRITORY MANAGEMENT OF THE PROPERTY OF THE PR						C-2-4-5-8-9. 10-18-19-28- 27-28-29 Mk-2-4 TW F (if not FCCB*) (if not CCB*)		FREIGHT			-8-9-23-28- -36-57-58 -4-5-9- -18-19-26- -28-29 -5-6-7-8-9 f not CCB*)	A PROPERTY OF THE PARTY OF THE	TW SS	AM AM-2 MM-3 Gas- elec.
Part Part Part Part Part Part Part Part	Overlatery Branch.  W. P. 1913 TAMP 161.51 (Cast City limit, Tempe).  D. 20 20 20 20 20 20 20 20 20 20 20 20 20	6, 7,	27, 24, 24, 24, 24, 25	8484	A CHARLES		A second		8444	3555	8888	8444		Sapara Makada a	8888	8888	8888
PAPP 913.77-MP 915.31 (East City limit, Tempe). 20 20 20 20 20 20 20 20 20 20 20 20 20	Furnity Ball 17-MP 918-17 MP 918-1	-		20			- 11	20	20	8	20	8	20	20	20	20	20
Programs	Tempe Branch   Temp	6, 7,		20				8	20	20	20	20	20	20	20	20	8
MP 915.73-MP 9015.70 (West yard limit, Mess). 40 40 40 40 40 40 40 40 40 40 40 40 40	M. P. 913.7-M. P. 915.7-M. P.	10		20				20	20	20	20	20	20	20	20	20	20
MP 866.98-MP 866.98 (Jula 1986.98)	MF 866.98, MP 866.89, Gala	6, 7,	MP 915.31-MP 915.79 MP 915.31-MP 915.79 MP 921.45-MP 920.45 (West yard limit, Mesa) MP 921.10-MP 922.07 (East wye switch, Mesa) MP 922.07-MP 922.20 (East wye switch, Mesa) MP 922.07-MP 922.23 (East yard limit, Mesa) MP 929.24-MP 929.10 (West switch, Chandler) *MP 929.92-MP 948.00 MP 948.00-MP 950.74 MP 960.74-MP 961.57 (West switch, Coolidge) MP 961.57-MP 962.33 MP 962.33 (East switch, Coolidge)-MP 972.35-MP 979.32 MP 973.54-MP 979.22 (West wye switch, Picacho) MP 973.52-MP 979.32 (West wye switch, Picacho) MP 973.62-MP 975.61 MP 975.61-MP 975.61 MP 975.61-MP 975.95 MP 988.20-MP 982.73 (Signal 9828) MP 982.73 (Signal 9828) MP 982.73 (Signal 9828)	4848484888888888888888888888888888888		A STATE OF THE STA		************************************	44484444484844444848484848484848484848	2888888888888888888	88888888888888	49989999999898888	444%444444%4444%	**********	288888888888888888	288888888888888888	2888888888888888888
*Regulated by city ordinance.	*Regulated by city ordinance.		Value of the second sec	888888888888		50 C. S. A. A. S.		8448444444	8448444448	**********	84888848448	84484444444	8448444444	*******	288888888888	88888888888	ន្ធ
	care and in the second of the		*Regulated by city ordinance.		Z.	1 (5)				Lor		9.0	NIE STEEL		,		

SPEED RESTRICTIONS: Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed as if less than 35 MPH.

ц	E L				10				THE PERSON NAMED IN
	BACKING WITH TRAIN OR LIGHT	15	នន	នន		11			
RUNNING FORWARD	Z.	15	R.R	88	Part III			Onlineding "wine	EZA 13
RUNNING	M T-37 C-8-9-10	15	88	88		indi	No.	The state of the s	Tability team
	Freight and Mixed Maximum	15	28	88		100 - 100 H		The control of the co	total of the last
1	11 Passenger Mk F-1	15	88	22		COL MANU	ole Sal	2942 to 2271 (2014, 2017 and 2178 and 2	
	Gas-elec. M-4-6-9- T-37 C-8-9-10	15	32.50	32		AND THE STATE OF T		1872 u 18	
	Maximum	35	35.20	32		9057 909 909 9097 9097 9097 9097		Table of the Color and the Col	8.4.6
	TERRITORY	Nogales Branch, except MP 984.04-Tucson City limit, MP 985.81 MP 985.81-MP 987.42	(East yard limit) MP 987.42-Calabasas	(Nogales yard limit)	*Regulated by city ordinance.	000 000 000 000 000 000 000 000 000 00		The last two persons and also delegate the end of the country of t	TOTAL NEW YORK
	No.	11 Nogal MP lin	N S	T) BoN*	*Regr			2510 and 2011  2510 per licente, et const.  2510 per licente, et const.  2500 per 2512  2512	The state of the s
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RUNNING	FORWARI M T-37- C-8-9-10 MK-2-4	8888	888	328	10	ANY PORT			
	Passenger Freight Maximum	88888	888		15	THE		The control of the co	
	TERRITORY	Christmas Branch, except. MP 923.89-MP 924.08 MP 924.08-MP 955.93 MP 955.93-MP 956.07	956.07-MP 964.28 964.28-MP 964.54	968.79-MP 988.24 988.24-MP 999.53 den Jet, vard	MP 999.53-MP 1000.64 MP 1000.64-Christmas	help the hel		The state of the s	
	No.	10 Christ MP MP MP	WW	HWWH	MP	0 0		Lare that is the second to the second	tion signor
	A STATE OF THE PARTY OF THE PAR	100 M	-	-	TA THE SA			WHICH NO ICATING IS SHOWN IN THE	

# PICACHO SUBDIVISION

# RATING OF ENGINES-In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Maricopa to Tucson Phoenix to Picacho	Gila to Estrella	Estrella to Maricopa Tucson to Maricopa Estrella to Gila Picacho to Phoenix	Maricopa to Estrella	McQueen to Christmas	Christmas to McQueen	Tucson to Calabasas	Calabasas to Nogales	Nogales to Tucson
DES-1,2,3,4,5,6,7 DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	7 1000 to 1022. 1300 to 1395. 1500 and 1502. 1617 to 1713. 1721 to 1803, 1823 to 1825. 1804 to 1822, 1826 to 1831 and 1836. 1832 to 1835.	2300 2900 3600	1600 1400 1900 2250 2400 2500	3300 4300 5000 5300 5500	2300 2900 3600 3800 3950	2450 3150 3800 4100 4250	2950 3750 4550 4900 5100	1550 2100 2500 2650 2750	1450 1950 2300 2450 2550	2550 3400 4000 4200 4400
T-1 T-8, 9 T-23 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271. 2161, 2174 and 2178. 2301 to 2310. 2283 to 2299. 2311 to 2362. 2363 to 2384. 2103. 2105 and 2106. 2385 and 2386.	2600 1850 3750 3250 4150 4200 2750 3700 3400	1650 1150 2350 2050 2600 2650 1750 2300 2150	3700 2650 5300 4700 5850 5950 3950 5200 4800	2600 1850 3750 3250 4150 4200 2750 3700 3400	2750 2000 4000 3500 2950 3700	3300 2400 4750 4200  3550 4400	1800 1250 2600 2250  1950 3100	1650 1150 2400 2100  1800 2350	2900 2050 4200 3650  3100 3700
P-1 P-4 P-6 P-7 P-8, 10 P-8, 10 P-11	[2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415. 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477. 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491 3100 to 3109. 3120 to 3129.	3300 3500 3700 4150 4450 4600 4850 3600 4700	2000 2200 2300 2600 2800 2850 3050 2250 2900	4650 5050 5250 5950 6350 6600 6950 5150 6700	3300 3500 3700 4150 4450 4600 4850 3600 4700	3850	4650	2500	2300	4050
C-15, 32 C-17 C-18 C-19 TW-1 TW-2, 3 TW-4, 6	2513 to 2599, 2624 to 2860, 3440 to 3469 2500, 2505 to 2507 2510 and 2511 3400 to 3409 3410 to 3426 2900 to 2913 2932 to 2952 2926 to 2931 and 2957 2914 to 2923	4600 2900 3600 4200 4350 3450 2750 2650 3850	2900 1850 2300 2650 2750 2200 1750 1650 2450	6500 4150 5050 5900 6150 4900 3950 3750 5450	4600 2900 3600 4200 4350 3450 2750 2650 3850	4700 3100 3800 4450 4650 3700 2950 2800 4050	5600 3700 4550 5300 5550 4400 3550 3350 4850	3750 2050 2500 2950 3050 2400 2300 1800 2650	3000 1850 2300 2700 2800 2250 2050 1700 2450	5100 3250 4000 4650 4850 3850 3150 2950 4300
A-3 A-6 Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-10	3029. 3025, 3036, 3052 and 3057. 3000 to 3003. 3201 to 3240. 3241 to 3277. 3300 to 3324. 3295. 3297 and 3298.	2650 2750 3250 5200 5750 6350 4900 4700	1650 1700 2000 3300 3600 4000 3100 3000	3800 4000 4650 7300 8100 8900 6900 6650	2650 2750 3250 5200 5750 6350 4900 4700	*5650 *6100	*6750 *7300	4300 4600	3300 3700	5900 6500
F-3 F-4, 5 AM-2 MM-3 AC-1, 2, 3 AC-4, 5		6700 7600 8000 7550 8800 9150 11950 12000	4200 4800 5000 4800 5600 5850 7650 8000	9300 10800 11500 10700 12500 12950 14000 14000	6700 7600 8000 7550 8800 9150 11950 12000	18.5.51		4600	4250	7350
Mt-2 GS-1, 2 GS-3, 4, 5, 6*	4300 to 4376. 4385 to 4390. 4400 to 4415. 4416 to 4469. 5000 to 5048.	6400 6600 6600 7000 8800	3850 4000 4100 4300 5600	9000 9300 9450 9700 12500	6400 6600 6600 7000 8800			i		  
Empty and R4	Less than 45 Ms	6 3 0	6 3 0	6 . 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0

\*Engines 3201 and 3224 only permitted to operate between Hayden Jct. and Christmas.

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

RULES 10 (G) and 10 (H). On No. 1 and No. 2 track between Park Ave., Tucson, and Polvo, signals will be placed on left of track in direction of movement.

RULE 14 (e). As specified below, — — — — — sounds of whistle will be indication that flagman may return from east as prescribed by Rule 99:

Mescal, Trains on Rio Grande Division. .

Bowie, Trains on Globe Branch.

RULE 83 (B). At open train-order offices trains may register by ticket as follows:

Mescal..... Bowie..... All trains except on Globe Branch

RULE 93. Yard limits in which the provisions of Rule 93 will apply are established at the following points:

West MP	er egent Sign opport. For york to the general and enthroping reserves	East MP
981.96	Tucson (No. 2 Track)	989.00
STORY THE	" (No. 1 Track—Rio Grande Div.)	988.09
	" (Nogales Br.)	987.42
1021.24	Mescal (R. G. Div.)	1023.13
1022.89	" (Tucson Div.)	1024.13
1031.60	Benson	1034.01
1097.10	Bowie	1100.00
	" (Globe Br.)	1099.50
1136.65	Safford	1138.34
1218.70	Globe	1223.22
1229.82	Miami	1234.20
1147.19	Lordsburg	1151.38

Tucson. Trains moving against current of traffic on westward main track between end of double track, MP 984.12, Tucson and crossover between main tracks just east of Nogales Branch switch must stop before fouling inbound engine lead switch, and proceed only on signal from yardman (white flag by day, green light by night).

RULE 99. First-class trains must move with caution on passenger tracks 1, 2 and 3 at Tucson, and trains standing on these tracks need not protect against following first-class trains, but must comply with Rule 99 (A).

RULE 99 (C). Will apply as follows: Globe Branch between Bowie and Globe.

RULE 103 (A). A flagman must precede all movements over: Globe, Hackney St. and eastward over Murphy St. Miami, Latham Blvd., Adonis Ave. and Miami Copper Co. high-

way crossing. RULE 103 (B). Back-up hose must be used when making back-up movements with cars, between North and South yards and/or PFE yard, Tucson.

Back-up hose must be used on leading car when shoving cars on Government tracks at Airport at Wilmot.

RULE 104. Normal position of rigid switches at the end of

RULE 105. Following tracks are designated for use as sidings:

San Carlos. Track north of main track, opposite station.

Benson. Track north of main track, for eastward trains;

Track south of main track, for westward trains;

Track north of main track, for westward trains;

Track south of main track, for eastward trains;

Track south of main track, for westward trains.

Bowie. Track north of main track from west switch to main track switch just east of station build-ing, for eastward trains; Track north of main track from east switch to

main track switch just east of station building, for westward trains.

Steins......First track north of main track, for westward trains;

Second track north of main track, for eastward trains, and connects with westward siding at each end.

RULE 221. Trains must obtain clearance before leaving Bowie and Miami.

RULE D-251. Applies to the following tracks:

Track No. 1 and westward track from PFE yard Tucson, to Stockham. Extra trains and engines must receive proceed signal from yardman (white flag by day, green light by night) before leaving PFE yard, and before passing Park Ave., Signal 9843, and Sixth Ave., but this does not authorize trains or engines to pass Signal 9853 indicating "stop".

# METHOD OF DISPATCHING TRAINS BETWEEN TUCSON AND MESCAL

No. 1 Track Mescal subdivision and No. 2 Track Bowie subdivision will be operated under double track rules, No. 1 Track westward track and No. 2 Track eastward track.

Limits of double track operation between Tucson and Mescal

will be as follows:

Eastward—via No. 2 Track to west interlocking limit at Mescal. Westward—via No. 1 Track from west interlocking limit at Mescal to Tucson.

RULE D-97 (A) will apply on No. 1 and No. 2-Tracks between Tucson and Mescal, except that extra trains must obtain clearance, or proper train-order signal, or permission from train dispatcher be-

fore using either track.

Trains from Bowie Subdivision moving to Mescal Subdivision, and trains on Mescal Subdivision moving through Mescal, with the same conductor and engineer operating through Mescal, may be issued train orders on one subdivision that affect their movements on either, or both subdivisions. Any such train orders issued by one division to a train on the other division must be transmitted to the other division addressed to Dispatcher before complete is given to the order addressed to the train; and such orders must be shown on clearance issued by the division on which train originates.

RULE 82 (A). Regular trains and sections of schedules authorized on Bowie or Mescal Subdivisions are authorized to assume corresponding schedules or sections of schedules on Bowie or Mescal Subdivisions at Mescal without clearance.

Westward trains may leave Mescal without clearance provided

train is properly cleared by train-order signal.

CERTAIN COL

RULE 83 (B). When a regular train is checked on Bowie or Mescal Subdivision, it will not be necessary to check the register at Mescal against the same train.

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# RULE 505. AUTOMATIC BLOCK SYSTEM

Tucson: Passenger tracks 1, 2 and 3 between end of double track at MP 983.66 and Signal 9838 on Track No. 2 have no block

Westward trains must not pass east crossover switch opposite Signal 9838, just east of Tucson yard office without proceed signal from yardman (white flag by day, green light by night), unless this switch is lined for movement on Passenger Track 1.

Trains and engines finding Signal 9843 indicating "stop" may proceed into passenger tracks 2 or 3 if switches are properly lined and proceed signal from yardman (white flag by day, green light by night) is received, but must move with caution, not exceeding 12

Westward freight trains must receive proceed signal from yardman (white flag by day, green light by night) before passing Signal 9875, and at first crossover switch west of Signal 9851.

Tucson-Mescal: Eastward trains on No. 2 Track finding a signal indicating "stop" will apply Rule 509 (i). Westward trains moving against current of traffic on No. 2 Track finding a signal indicating "stop" between Mescal and Esmond will apply Rule 509 (J); and will have no block signal protection between Esmond and Tucson. Between Park Ave., Tucson, and Polvo, automatic signals are on the left of the track in current of traffic direction.

PUSH BUTTONS

Push button and light on side of relay case on Signals P-11245 and P-11247 at Cavot.

RULE 510. The following block signals equipped with tri-angular number plate displaying the letter "P", have included in their control limits some special protective device:

Eastward Signals		Westward Signals
P-10408	Spring switch, east end siding, Chamiso Spring switch, east end siding, Curvo. Spring switch, west end siding, Sibyl. Spring switch, east end siding, Sibyl.	P-10389
P-11246	Spring switch, west end siding, Cavot	(P-11245
P-11322	Spring switch, east end siding, Cavot	P-11255

# RULE 535. SPRING SWITCHES

Spring switches equipped with facing point locks are located as follows, and speed indicated must not be exceeded while trailing through the switches:

Location	N	<b>Jormal</b>	Position	MPH
Chamiso	.East end siding	. Main	track	25
Curvo	. East end siding	. Main	track	15
Sibyl	. West end siding	. Main	track	25
Sibyl	East end siding	. Main	track	25
Cavot	. West end siding	Main	track	25
Cavot	East end siding	. Main	track	25
Mondel	.West end siding	. Main	track	25

Spring switches are also located on engine leads at Tucson and on stem of wye at Dragoon, San Simon and Steins.

### RULE 605. INTERLOCKING

Tucson, Sixth Ave.: Limits extend from point opposite Signal 9835 on both main tracks, to end of double track, and on passenger track 1 to dwarf signal 7 feet west of west switch of passenger track 2, and on freight lead to dwarf signal 10 feet east of Sixth Ave. tower, and on middle track to dwarf signal 230 feet west of east switch, and on Independent Ice lead to dwarf signal 240 feet west of Sixth Ave. tower.

Signals prescribed by Rule 628 may be given from tower win-

Mescal: Interlocking signals of Rio Grande Division will display indication in the upper quadrant. Signal arm extending upward parallel to signal mast indicates "proceed".

Limits are between home signals at east switch of east crossover and west switch of west crossover on Rio Grande Division, and home signals at east and west ends of north and south sidings on Tucson Division. Switches are under control of signal operator, except switches leading from north siding to water and outfit spurs; from south siding to both legs of wye, and to west end of coal track. Switch and derail east end coal track are hand-thrown, but must not be used until permission is secured from signal operator. North and south sidings have no signal control between Interlocking Limit

Where hand signals, as prescribed by Rule 628, cannot be seen, trains stopped will call the signal operator and secure permission to proceed; also to throw switches by hand in event the remote control appliance is inoperative.

Whistle signals: Eastward trains to Tucson Division o o - o o. Eastward trains to Rio Grande Division — 0 0 0 0. Eastward trains to south siding o — o.
Eastward trains south siding to Tucson Division o o — o. Eastward trains south siding to Rio Grande Division o — o o. Westward trains north siding to No. 1 Track, — — o o. Westward trains Tucson Division to No. 1 Track, o — —. Westward trains Tucson Division to north siding o o — —. Westward trains Rio Grande Division to No. 1 Track, — o —. Westward trains from Rio Grande Division through east crossover and Tucson Division to No. 1 Track, o - - o.

# RULE 705. LETTER TYPE INDICATORS

Indicators located as follows: Illuminated On **Authorizes and Requires** Letter Signal Approaching Movement as Follows M......Pantano.....Proceed to Mescal. M. .....11470.....Lordsburg...Proceed to train-order office.
S. .....11470.....Lordsburg...Call yard office for instructions.

# GENERAL REGULATIONS

RULE 824. Instructions for setting hand brakes: Tucson: Passenger trains..... Two brakes on west end, Two brakes on east end. Freight trains......Fifteen brakes on west end, Ten brakes on east end.

Tucson, PFE Yard: Freight trains. . Fifteen brakes on west end, Ten brakes on east end.

At Tucson hand brakes on passenger trains are to be set after engine is spotted for oil. If necessary to detach engine after these hand brakes have been released, employe before detaching engine must see that sufficient hand brakes have again been set.

RULE 825. Portable rail skids are hung on posts at lower end

Chamiso, Fenner, Curvo, Sibyl, Cavot. When necessary to leave cars on any of these sidings permission must first be obtained from chief train dispatcher, after which rail skid must be placed on rail and leading wheel of first car in descending direction run onto the rail skid, and hand brakes set if brakes are operative, before engine is detached. Trains picking up cars from these sidings must remove rail skid and return it to proper post and lock it in place with switch lock.

Cars or engines must not be set out on sidings at Rankin, Vail, Pantano, Tully, Lancha, Manzoro, Cochise, Drury, Alrich, Luzena, Cholla, Bawtry, Gary and Pyra.

# RULE 827. TRAIN INSPECTION

Freight trains must be inspected at each water stop. When conditions are favorable, and in the judgment of conductor and engineer it is safe to do so, and when additional stops can thereby be avoided, freight trains may run between water stops without stopping for inspection, provided the distance is not over 60 miles. This does not relieve trainmen from making inspection when stops permit, or whenever it is necessary in the judgment of conductor or engineer. On branch lines distance of 40 miles must not be exceeded, and on descending grade must stop at Cutter.

# AIR BRAKE RULES

RULE 17. Retainers will be used on grades of 1.4% to 1.5% on freight trains of less than 110 Ms per operative brake when necessary in the judgment of conductor and engineer.

On freight trains averaging 110 Ms and over on grades of 1.4% to 1.5% and on all freight trains on grades of 1.5% and over, retainers will be used as follows:

Mescal to Benson . . . . 1.4% grade, One Retainer for each 150 Ms Steins to Mondel....1.4% 150 Ms Steins to Bawtry....1.4% " "Sibyl to Benson....1.4% " " .. .. .. 150 Ms .. .. . . . .. 150 Ms Pinal to Globe .... 2% " "Globe to Burch .... 2% " " " " " 120 Ms " 120 Ms Live Oak to Miami...3% " " " " " 100 Ms Miami to Burch....1.4% " " " 150 Ms
Pinal to Cutter.....2.2% " " " " 120 Ms
When retainers are used, stops will be made for inspection and \*\* \*\*

to permit heat of wheels to equalize, as follows:

Eastward: Chamiso. Westward: Fenner. Vanar.

# FREIGHT TRAINS

RULE 25. Freight trains may pass:

Mescal, Eastward;

Dragoon and Steins, Westward; Pinal, Eastward and Westward

without stopping for purpose of rear end air test if proceed signal is given from rear by trainmen, after complying with Air Brake Rule 4, and air gage indicates required air brake pressure. Speed approaching summit must not exceed 15 MPH.

If proceed signal is not given or received, train must stop and rear end air test be made.

RULE 33. The tonnage per operative brake Pinal to Burch, and Pinal to Cutter, must not exceed 120 Ms; and Live Oak to Miami, 100 Ms.

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**有别的问题对理解的解释的知识的理解实际完全** 

# MISCELLANEOUS At San Simon, water for engine purposes is treated and must Benson, when practicable, westward freight trains and light engines take water at columns at station, to avoid shortage in east tank. Westward freight trains may take water at Sibyl if it will avoid stopping at Benson. 5. Tucson, PFE yard, look out for ice and rubbish alongside

PFE tracks. Willcox, look out for bedding sand between tracks 2 and 3. Load limit (car and contents):

Globe Branch......200,000 pounds.

11. Bowie, No. 5 track in west yard must be kept clear for through movement.

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS Mile

		T	Description UCSON - LORDSBURG	
983.9			Car repair shed	Cida
984.4	Tueson		Base of Signal 9844	Side
1008.1	Tuebon		Cienega Creek bridge.	Side
1008.2			Rock cut	Side
1008.3			Rock cut	Side
1032.5	Benson		Water column	Side
1032.5	Benson		San Pedro River bridge	eSide
1098.4	Bowie .		Water column	Side
1114.2	San Sim	on	Water tank spout	Side
			GLOBE BRANCH	
1201.1	San Car	los	Water tank and spout.	Side and Overhead
1213.5	Cutter.		Water column	Side
	e e	DEED I	RESTRICTIONS	With Caution
			HAN MAIN TRACKS	37-4 T1 11
	ron or	HER I	HAN MAIN TRACKS	MPH
Throug	h sidings	, yard a	nd other side-tracks, cr	ossovers.
turn	outs and	slip-swi	tches, except:	15
On PF	E vard tr	acks 1 to	6 inc Tueson	10
On Gov	rernment	tracks a	at Wilmot airport	10
	**		(with ongine hee	leiner\ E

Through any crossover, turnout or slip-switch with engine backing.....

(with engine backing)...

SPECIAL INSTRUCTIONS—BOWIE SUBDIVISION

SPEED RESTRICTIONS: Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains it less than 35 MPH.

10		SPECIAL INSTRUCTIONS—BOWIE SUBDIVIS	ION
NE BACKING 1 TRAIN OR LIGHT	M AC AM-2 MM-3 Gas- elec.	ដ្ឋមានមានមានមានមានមានមានមានមានមានមានមានមានម	hó 2. Sepáge III. Barn 10 september 10 september 14. E
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RWARD	C-15- 17-32 TW Mk-2-4- 10-11 AC AM-2 MM-3	888888888888888888888888888888888888888	the sind free STS /night / it
LIGHT ENGINE RUNNING FORWARD	M. 1-8-9-23-28- 31-36-57-58 31-36-57-58 31-36-57-58 10-18-19-26- 27-28-29 Mik-5-6-7-8-9 F (if not CCB*) SP	# # # # # # # # # # # # # # # # # # #	ADSTRUCTION OF THE COURSE OF T
ENGIN	T-26- 32-37- 40 F(if CCB*)	28844484848484848484844484	POCYTICH OF CARPERVEY PARE
	GS	2884448484848484448484844484444444	
	FREIGHT AND MIXED	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	C-15-17- 32 MK-10- 11 MM-3	**************************************	t s. 19 totas service de la
	C-2-4-5-9- 10-18-19-26- 27-28-29 Mik-2-4, TW F (if not CCB*) AC-1-2-3-6 (if not CCB*)	28999989898989899999999999	Next Menton
ENGER	M AM-2	284448484848484444444444444444444444444	manage to be Witter to the test of the
on	7-1-8-9- 23-28-31- 38-57-58 Mk-5-6-7- I 8-9 F (if CCB*) SP Gas-elec, cars	718848888888888888888888888888888888888	TO MAKE MATERIAN CARREST AND
PAS	AC-4-5- 7-8-9- 10-11- 12 AC-6 (If	2888282828282828288288282828282828282828	three of part free of the particular of the con- m PATS years travels 1 to 0 less of the con- m Government travels at William of the con-
	-28 -32 -40 -40	28-37-38-37-38-37-38-38-38-38-38-38-38-38-38-38-38-38-38-	te for the property of the control o
	F P-1-3- 4-5-6- 11 P-8 (if not CCB*)	418 45 75 75 75 75 75 75 75 75 75 75 75 75 75	
	P-8 (if CCB*) P-7- 10-12 GS	2584555858584555554485584455885555555555	THE PLANT OF THE PARTY OF
	TERRITORY	MP 982.73-MP 985.26.  MP 985.26-MP 988.09 (No. 1 Track).  MP 985.26-MP 988.09 (No. 2 Track).  MP 991.00-MP 997.00.  MP 991.00-MP 997.00.  MP 1010.427-MP 1010.36.  MP 1010.36-MP 1010.427.  MP 1010.36-MP 1011.62.  MP 1012.62-MP 1011.62.  MP 1018.08-Mescal west Interlocking limit.  Mescal, west Interlocking imit-MP 1026.00, except.  Mescal, west Interlocking imit-MP 1026.00, except.  Mescal, west Interlocking imit-MP 1026.00, except.  MP 1036.00-MP 1030.86.  MP 1038.60-MP 1032.17, Benson.  MP 1032.17-MP 1032.17, Benson.  MP 1032.17-MP 1045.36.  MP 1040.78-MP 1045.36.  MP 1040.78-MP 1045.36.  MP 1045.14-MP 1052.36.  MP 1045.36-MP 1052.36.  MP 1053.60-MP 1052.36.  MP 1053.60-MP 1050.00.  MP 1053.60-MP 1090.00.  MP 1074.27-MP 1076.20.  MP 1075.28-MP 1076.00.  MP 1075.28-MP 1076.00.  MP 1075.28-MP 1076.00.  MP 1076.00-MP 1090.03, Bowie.  MP 1099.63-MP 1121.00.  MP 1121.00-MP 1121.00.  MP 1128.68-Lordsburg.	*Regulated by city ordinance.
		z, z, 4, <del>A</del> AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	-   **

SPECIAL INSTRUCTIONS-BOWIE SUBDIVISION 33 SPEED RESTRICTIONS: Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH. WITH TRAIN OR LIGHT ENGINE LIGHT ENGINE RUNNING FORWARD Mk-2-4 252655252525252525252 FREIGHT 122653232323232323 C-8-9-10 PASSENGER M-6 0220 0 123233333333323223 Bowie, yard limits.

Bowie, east yard limit-MP 1126.12

MP 1126.43-MP 1136.65

MP 1126.43-MP 1136.65

MP 1136.55-MP 1138.34 Safford yard limits.

MP 1138.34-Pima West City limit

\*MP 1145.33-MP 1146.42 (Pima city limits)

MP 1178.03-MP 1178.03

MP 1178.03-MP 1178.17

MP 1178.03-MP 1183.70

MP 1183.70-MP 1195.00

MP 1181.70-MP 1217.52

MP 1217.52-MP 1218.75

MP 1217.52-MP 1218.76

Globe yard limits MP 1220.59-MP 1223.09 except

Broad Street Crossing. City ordinance. TERRITORY MP 1223.09-MP 1231.18... Miami yard limits. Inspiration Jct.-Live Oak \*Regulated by Globe Branch, bulletin, train order or fixed signal. No. 15

# **BOWIE SUBDIVISION**

# RATING OF ENGINES-In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Tucson to Mescal (No. 2 Track)	Benson to Dragoon San Simon to Steins	Mescal to Benson Dragoon to Willcox Raso to San Simon Steins to Conrad Pyra to Lordsburg	Willcox to Raso Conrad to Pyra	Lordsburg to Pyra	Pyra to Mondel Steins to San Simon Raso to 2 M E Cochise Dragoon to Benson Mescal to Tucson (No. 1 Track)	San Simon to Bowie	Bowie to Raso 2 M E Cochise to Dragoon	Mondel to Steins Benson to Mescal
DES-1, 2, 3, 4, 5, 6, 7 DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	1000 to 1022 1300 to 1395 1500 and 1502 1617 to 1713 1721 to 1803, 1823 to 1825 1804 to 1822, 1826 to 1831 and 1836 1832 to 1835	1200 1600 1950 2050 2150	930 1250 1500 1600 1650	5000 5000 6000 6000 6000	1850 2450 2900 3100 3200	2050 2750 3250 3450 3550	5000 5000 6000 6000 6000	2300 3100 3650 3650 4000	1400 1900 2250 2350 2450	930 1250 1500 1600 1650
T-1 T-8, 9 T-23 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271 2161, 2174 and 2178 2301 to 2310 2283 to 2299 2311 to 2362 2363 to 2384 2103 2105 and 2106 2385 and 2386	1400 990 2000 1750 2250 2300 1500 2000 1850	1050 760 1550 1350 1750 1800 1150 1550 1400	5000 5000 6000 6000 8000 8000 5000 6000	2100 1500 3050 2650 3350 3450 2250 3000 2750	2350 1650 3400 3000 3750 3800 2500 3350 3050	5000 5000 6000 6000 8000 8000 5000 6000	2650 1900 3800 3350 4200 4300 2800 3750 3450	1600 1150 2300 2050 2600 2600 1750 2300 2100	1050 760 1550 1350 1750 1800 1150 1550 1400
P-1, 3, 5 P-1 P-4 P-6 P-7 P-8, 10 P-8, 10 P-11 P-12	(2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435,) 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415. 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477. 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491. 3100 to 3109. 3120 to 3129.	1800 1850 1950 2250 2400 2450 2600 1950 2600	1350 1450 1500 1750 1850 1900 2000 1500 2000	6000 6000 6000 8000 8000 8000 8000 8000	2700 2050 3000 3400 3600 3750 3950 2950 3900	3050 3200 3350 3800 4050 4150 4400 3300 4350	6000 6000 6000 8000 8000 8000 8000 8000	3400 3600 3750 4250 4500 4700 4950 3700 4900	2050 2150 2250 2600 2750 2850 3000 2250 3000	1350 1450 1500 1750 1850 1900 2000 1500 2000
C-5, 8, 9, 10, 26 to 29 C-15, 32 C-17 C-18 C-19 TW-1 TW-2, 3 TW-4, 6 TW-8	2513 to 2599, 2624 to 2860, 3440 to 3469. 2500, 2505 to 2507. 2510 and 2511. 3400 to 3409. 3410 to 3426. 2900 to 2913. 2932 to 2952. 2926 to 2931 and 2957. 2914 to 2923.	2500 1600 1950 2300 2400 1900 1500 1400 2100	1950 1250 1550 1800 1850 1450 1150 1100 1600	8000 5000 6000 8000 8000 7000 7000 7000 7000	3750 2350 2950 3400 3550 2850 2250 2150 3150	4150 2650 3250 3800 3950 3150 2500 2400 3500	8000 5000 6000 8000 8000 7000 7000 7000 7000	4650 2950 3650 4250 4450 3550 2850 2650 3900	2900 1800 2250 2650 2750 2150 1750 1650 2400	1950 1250 1550 1800 1850 1450 1150 1100 1600
A-3 A-6 Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-10 Mk-11	3029. 3025, 3036, 3052 and 3057. 3000 to 3003. 3201 to 3240. 3241 to 3277. 3300 to 3324. 3295. 3297 and 3298.	1350 1450 1700 2800 3150 3500 2650 2550	1050 1100 1300 2200 2450 2750 2100 2000	6000 6000 6000 8000 8000 8000 8000 8000	2150 2250 2600 4250 4700 5200 4000 3850	2400 2500 2950 4750 5250 5800 4450 4250	6000 6000 6000 8000 8000 8000 8000 8000	2700 2800 3300 5300 5850 6500 5000 4750	1600 1700 2000 3250 3650 4000 3050 2950	1050 1100 1300 2200 2450 2750 2100 2000
F-3 F-4, 5 AM-2 MM-3 AC-1, 2, 3 AC-4 5	3600 to 3652 3653 to 3667 3668 to 3769 3900 to 3911 3930 and 3931 4000 to 4048 4100 to 4125 3800 to 3811, 4126 to 4294	3700 4200 4750 4150 4900 5050 6550 7400	2900 3300 3750 3250 3850 3950 5150 5500	10000 10000 10000 10000 10000 12000 14000 14000	5500 6300 7100 6200 7300 7500 9800 10400	6100 7000 7850 6850 8100 8350 10850 11500	10000 10000 10000 10000 10000 12000 14000 14000	6850 7800 8800 7700 9000 9300 12150 12900	4250 4850 5450 4750 5600 5750 7550 8000	2900 3300 3750 3250 3850 3950 5150 5500
Mt-2 GS-1, 2 GS-3, 4, 5, 6	4300 to 4376. 4385 to 4390. 4400 to 4415. 4416 to 4469. 5000 to 5048.	3800 3550 3850 3900 5350	2950 2800 2980 3000 4350	10000 10000 10000 10000 10000	5650 5350 5850 6000 8000	6300 5950 6500 6700 8850	10000 10000 10000 10000 10000	7050 6700 7350 7500 10000	4350 4100 4450 4550 6150	2950 2800 2880 3000 4350
Empty and	Less than 45 Ms 45 Ms to 55 Ms More than 55 Ms	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

# RATING OF ENGINES-In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Bowie to San Carlos	San Garlos to Cutter	Cutter to Pinal	Pinal to Globe	Globe to Miami	Miami to Globe	Globe to Pinal	Pinal to San Carlos	San Carlos to Tanque	Tanque to Bowie
DES-1, 2, 3, 4, 5, 6, 7 DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	1000 to 1022. 1300 to 1395. 1500 and 1502. 1617 to 1713. 1721 to 1803, 1823 to 1825. 1804 to 1822, 1826 to 1831 and 1836. 1832 to 1835.	2450 3250 3800 4000 4200	1200 1600 1950 2050 2150	580 830 990 1050 1100	5000 5000 6000 6000 6000	970 1300 1550 1650 1750	880 1200 1450 1550 1600	580 830 990 1050 1100	5000 5000 6000 6000 6000	2050 2750 3250 3450 3550	1550 2100 2500 2650 2750
T-1 T-8, 9 T-23 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271 2161, 2174 and 2178 2301 to 2310 2283 to 2299 2311 to 2362 2363 to 2384 2103 2105 and 2106 2385 and 2386	2750 2000  2950 3700	1400 990  1500 2250	710 480  780 950	5000 5000  5000 6000	1100 790  1250 1500	1050 720  1100 1050	710 480  780 950	5000 5000  5000 6000	2350 1650  2500 3150	1800 1250  1950 2400
P-1, 3, 5 P-1 P-4 P-6 P-7 P-8, 10 P-8, 10 P-11 P-12	(2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415. 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477. 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491. 3100 to 3109. 3120 to 3129.	3600 3750 3900  3850	1800 1850 1950  1950	880 920 970  970	6000 6000 6000  8000	1450 1500 1550  1550	1300 1350 1450  1400	880 920 970  970	6000 6000 6000  8000	3050 3200 3350  3300	2300 2450 2550  2500
C-5, 8, 9, 10, 26 to 29 C-15, 32 C-17 C-18 C-19 TW-1 TW-2, 3 TW-4, 6 TW-8	2513 to 2599, 2624 to 2860, 3440 to 3469 2500, 2505 to 2507 2510 and 2511 3400 to 3409 3410 to 3426. 2900 to 2913 2932 to 2952. 2926 to 2931 and 2957 2914 to 2923.	4900 3100 3800 4450 4650 3700 3200 2800 4050	3000 1600 1950 2300 2400 1900 1950 1400 2100	1310 820 1050 1200 1250 980 850 720 1050	8000 5000 6000 8000 8000 7000 7000 7000 7000	2000 1300 1600 1850 1950 1550 1300 1150 1700	1400 1200 1500 1700 1800 1400 900 1050 1550	1310 820 1050 1200 1250 980 850 720 1050	8000 5000 6000 8000 8000 7000 7000 7000 7000	4170 2650 3250 3800 3950 3150 2700 2400 3500	3220 2050 2500 2950 3050 2400 2100 1800 2650
Allowance for Empty and Underloaded Cars	Less than 45 Ms. 45 Ms to 55 Ms. More than 55 Ms	::::	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0	6 3 0

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

# THE ENGINEERS AND ADDRESS OF ARTHUR PROPERTY AND THE PARTY OF THE PART

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# DIVISION MILEAGE

# Main Line

	ATAMANA AVALAGE			
Yuma to Lordsburg	SPRR		412.58	
Wellton to Picacho via Phoeniy 18	SPCoSPRR	13.10	209.01	
Total Main Lines	A STATE OF THE PARTY OF THE PAR			621.59
	Branches			
Benson-Fairbank SPRRA	t Benson	.29 .33	.62	
Christmas $\left\{ \begin{matrix} AERRMc\\ KCCHa \end{matrix} \right\}$	Queen to Christmas	86.66 .32	86.98	
CreameryAERRTe	mpe to Normal Jet		2.19	
Globe         AERR         Bo           Litchfield         AERR         Lit           Nogales         SPRR         Tu           Tempe         AERR         Te           Yuma Valley         YVRR         Yu	tchfield to Litchfield Park acson to Nogales mpe Jot. to West Chandler		$136.14 \\ 4.92 \\ 65.79 \\ 7.82 \\ 15.00$	
Total Branches				319.46
Total Tucson Division				941.05

# SPEED TABLE

MINE	WIT DO
TIME PER	MILES PER
MILE	HOUR
36" . 37" .	
38".	94.7
39". 40".	92.3
41".	90
42" .	85.7
43" . 44" .	
45".	
46".	78.3
47" . 48" .	
49".	73.5
50".	70.6
52".	
53". 54".	67.9 66.6
55".	65.4
56".	64.2
57". 58".	63.1
59".	61
1'00".	60
1'02" .	
1'03".	57.1 56.2
1'05".	55.3
1'06" .	54.5
1'07".	53.7 52.9
1'09" . 1'10" .	52.1
1'11"	51.4
1'12"	50
1'13" . 1'14" .	
1'15".	48
1'16" .	47.3
1'17".	
1'19" . 1'20" .	45.5
1'25".	
1'30" .	40
1'35" . 1'40" .	
1'45" .	34.3
1′50″ . 1′55″ .	32.7
2'00".	
2'15" . 2'30" .	
2'45".	
3'00".	20
3'30" . 4'00" .	
5'00".	
6'00".	
7'30" .	8
8'00". 10'00".	7.5
1000 .	

