

**DRAFT**  
**REPORT VOLUME THREE - APPENDICES**  
**Part 1 of 4**  
**Appendices 2-1 through 6-2**

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**SOUTHERN CALIFORNIA ACCELERATED  
RAIL ELECTRIFICATION PROGRAM**

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Prepared for  
**Southern California Regional Rail Authority**

February 10, 1992

**DRAFT**

**REPORT VOLUME III – APPENDICES**

**Part 1 of 4**

**Appendices 2-1 through 6-2**

**Prepared By:**

**Los Angeles County Transportation Commission  
South Coast Air Quality Management District  
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**Southern California Gas Company**

**Southwest Research Institute**

## **DISCLAIMER**

All participants in the Electrification Task Force identified on the previous page have contributed in some measure to the preparation of this Southern California Accelerated Rail Electrification Program report. However, not every participant is in agreement with the analysis and findings contained herein. Accordingly, identification of a participant does not indicate acceptance of, or agreement with, the entirety of the information provided in the report.

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**Provided By:**

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**California Transportation Commission**

**Los Angeles Department of Water and Power**

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**San Diego Association of Governments/  
San Diego Gas and Electric/  
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**South Coast Air Coast Quality Management District**

**Southern California Edison**

**Southern California Gas Company**

**Southern California Regional Rail Authority**

**Southern Pacific Transportation Company**

**Union Pacific Railroad**

**LIST OF APPENDICES**  
**(Part 1 of 4)**

- 2-1 13 Candidate Route - Data Sheets/Track Ownership
- 5-1 Route Summary for Overhead Clearance Inventory
- 5-2 Detailed Overhead Clearance Inventory
- 5-3 Grade Crossing Inventory
- 5-4 Impact of Electrification Phase Selective and Tru-II Track Circuits
- 5-5 Typical Circuits Phase Selective and Tru-II Track Circuits
- 6-1 Detailed Segment Sheets for Routes 2-13
- 6-2 Detailed Segment Sheets for Route 1

**APPENDIX 2-1**

**Southern California Regional Rail Electrification Program**

**Data Sheets**

**13 Routes**

**Track Ownership**

**805.7 Route Mile System**

**Jan. 18, 1992**

Data Sheet  
 Southern California Regional Rail Electrification Program  
 13 Routes

Track Ownership

		<u>OWNER</u>	<u>ROUTE MILEAGE</u>
1. SP/UP Corridor			
61-	Yermo-Daggett.....	UP.....	5.2
60-	Daggett- Barstow.....	ATSF.....	7.2
59-	Barstow- Victorville.....	ATSF.....	36.9
58-	Victorville - Summit.....	ATSF.....	19.5
57-	Summit - Keenbrook.....	ATSF.....	14.5
66-	Keenbrook - Dike.....	ATSF/SP.....	0.1
63-	Keenbrook/Dike - N. Bridge.....	SP.....	7.8
62-	N. Bridge - W. Colton.....	SP.....	5.8
42-	W. Colton - S. Montclair.....	SP.....	19.9
41-	S. Montclair - Pomona.....	SP.....	3.5
40-	Pomona - Industry.....	SP.....	13.3
49-	Industry - Puente Jct.....	SP.....	1.6
51-	S. Montclair - Montclair.....	SP/UP.....	0.1
34-	Montclair- Spadra.....	UP.....	7.2
50-	Spadra-Pomona.....	UP/SP.....	0.1
33-	Spadra- Puente Jct.....	UP.....	11.7
32-	Puente Jct. - Bartolo.....	UP.....	6.4
31-	Bartolo - East Yard.....	UP.....	8.4
30-	East Yard - Soto St. Jct. ....	UP.....	1.0
46-	East Yard - Hobart.....	UP.....	0.2
29-	Soto St. Jct. - J Yard .....	UP.....	1.5
28-	J Yard.- Dolores.....	SP.....	15.1
28-	Dolores-(ICTF)- Port of Long Beach..	UP.....	4.3
28-	Dolores-(ICTF) - Port of L. A. ....	SP.....	5.0
43-	W. Colton - Colton.....	SP.....	1.0
44-	Colton - Indio.....	SP.....	72.2
45-	Indio - Yuma.....	SP.....	<u>124.0</u>
			<b>393.5</b>

Use- Freight traffic only.

Data Sheet

Southern California Regional Rail Electrification Program

13 Routes

Track Ownership

<u>Route</u>	<u>Name</u>	<u>Ownership</u>	<u>Route Mileage</u>
<b>2. Baldwin Park Branch (SCRRA)</b>			
	Alt. Rt.-Bench (Rialto)- ATSF Jct. Claremont.....	SCRRA.....	24.3*
9-	San Bernardino- Claremont.....	ATSF.....	23.2
7-	SCRRA Conn. - N Pomona .....	ATSF.....	1.2
6-	N. Pomona - Bassett.....	SCRRA.....	17.2
5-	Bassett- El Monte.....	SCRRA.....	2.7
4-	El Monte-State Street.....	SCRRA.....	11.6
3-	State Street - East Jct. ....	SCRRA.....	0.2
2-	East Jct. - Mission Tower.....	SCRRA.....	0.3
1-	Mission Tower - LAUPT.....	Catellus.....	0.6
			<u>57.0</u>

Use- Commuter Rail Only.

Total Route mileage if electrified separately = 57.0.

Data Sheet

Southern California Regional Rail Electrification Program

13 Routes

Track Ownership

<u>ROUTE</u>	<u>OWNER</u>	<u>ROUTE MILEAGE</u>
<b>3. Moorpark Line</b>		
15- Moorpark - Gemco.....	SP.....	..29.0**
14- Gemco- Burbank Jct. ....	SCRRA/SP....	9.5.....7.3
12- Burbank Jct.- Commuter Rail Int....	SP.....	9.1**
10- Commuter Rail Int.-East Jct.....	SCRRA.....	1.2**
2- East Jct. - Mission Tower.....	SCRRA.....	0.3.....
1- Mission Twr- LAUPT.....	Catellus....	0.6.....
12/10Burbank Jct.- Mission Tower.....	SCRRA.....	10.6.....
		<u>46.6</u>

\*\* Note: The track from Gemco to Burbank Jct, 9.5 miles , is SCRRA owned and is parallel to the SP, therefore not counted as route mileage. Similarly, a second track from Burbank Jct. to Mission Tower (10.6 miles), is parallel to the SP with each railroad sharing the other's track and therefore not counted in the route mileage.

Use- Commuter Rail Only. Amtrak and Freight would remain diesel.

Addition of electrification to Santa Barbara from Moorpark (55 miles) would allow electrification of Amtrak 6 trains per day).

Total Route Mileage if electrified separately = 47.5.

Total Route Mileage if electrified to Santa Barbara = 102.5.

**4. Saugus Line**

13- Santa Clarita- Burbank Jct.....	SP.....	23.7**
2/12/10Burbank Jct.- Mission Tower....	SCRRA.....	10.6.....**
1- Mission Tower- LAUPT.....	Catellus.....	0.6.....
		<u>23.7</u>

Note \*\*- Only the outer 23.7 miles is counted as route mileage because the trackage between Burbank Jct. and LAUPT was covered under "3" above. Also note that Burbank Jct. has three Milepost designations in the SP timetables. There is a 0.5 mile gap on the Saugus line.

Use- Commuter Rail only. Freight would remain diesel operated.

Total Route Mileage if electrified separately = 34.9.

Data Sheet

Southern California Regional Rail Electrification Program

13 Routes

Track Ownership

<u>Route</u>	<u>Ownership</u>	<u>Mileage</u>
<b>5. LOSSAN Corridor</b>		
25- National City- San Diego.....	ATSF.....	5.6
24- San Diego - Oceanside.....	ATSF.....	41.1
23- Oceanside - San Juan Capistrano..	ATSF.....	29.2
72- San Juan Capistrano - Irvine.....	ATSF.....	18.1
22- Irvine- Olive Jct.....	ATSF.....	6.2
21- Olive Jct. - Fullerton.....	ATSF.....	7.9
20- Fullerton - DT Jct. ....	ATSF.....	12.9
19- DT Jct. - Hobart .....	ATSF.....	7.6
18- Hobart - Redondo Jct.....	ATSF.....	1.3
17- Redondo Jct. - Mission Tower....	ATSF.....	3.2
1- Mission Tower - LAUPT.....	Catellus....	0.6.....
		<u>133.1</u>

Note: The .6 miles from Mission Tower to LAUPT was covered under "3" above and not duplicated here.

Use- Amtrak San Diegans, San Diego County Commuter Rail, Orange County Commuter Rail, SCRRA Commuter Rail. Freight trains would remain diesel.

Total Route Mileage if electrified separately = 133.7.

Data Sheet

Southern California Regional Rail Electrification Program

13 Routes

Track Ownership

<u>Route</u>	<u>Ownership</u>	<u>Route Mileage</u>
<b>6. Riverside Line (via UP)</b>		
71- Riverside-W. Riverside.....	ATSF.....	0.8
35- W. Riverside - Montclair.....	UP.....	19.9
34- Montclair - Spadra.....	UP.....	7.2.*
33- Spadra - Puente Jct.....	UP.....	11.7.*
32- Puente Jct. - Bartolo.....	UP.....	6.4.*
31- Bartolo - East Los Angeles Yard...	UP.....	8.4.*
30- East Yard - Soto St.....	UP.....	1.0.*
37- Soto Street - East Jct.....	SCRRA.....	2.8
2- East Jct. - Mission Tower.....	SCRRA.....	0.3.....
1- Mission Tower - LAUPT.....	Catellus .....	0.6.**.....
		<u>23.5</u>

\* Previously covered under Route 1 UP/SP Corridor.

\*\* Previously covered under Route 3 Moorpark.

Total Mileage for route 6 if electrified separately = 59.1

Use- Commuter Rail only.

Data Sheet

Southern California Regional Rail Electrification Program

13 Routes

Track Ownership

<u>ROUTE</u>	<u>OWNER</u>	<u>ROUTE MILEAGE</u>
<b>7. Riverside - LAUPT via Fullerton</b>		
71- Riverside- West Riverside .....	ATSF.....0.8.*.....	
27- West Riverside - Atwood .....	ATSF.....	30.0
26- Atwood - Fullerton.....	ATSF.....	5.4
20- Fullerton - DT JCT.....	ATSF....12.9.**.....	
19- DT JCT. - Hobart .....	ATSF.... 7.6.**.....	
18- Hobart - Redondo Jct. ....	ATSF.... 1.3.**.....	
17- Redondo Jct.- Mission Tower.....	ATSF.... 3.2.**.....	
1- Mission Tower - LAUPT .....	Catellus ....0.6.***.....	<u>35.4</u>

- \* Covered under Route 6- Riverside via Ontario.
- \*\* Covered under Route 5- Lossan Corridor.
- \*\*\* Covered under Route 2- Baldwin Park Commuter.

Total Mileage for Route 7 if electrified separately = 61.8

Use- Commuter Rail only.

**8.Hemet - Riverside**

69- Hemet - Highgrove Jct.....	ATSF.....	36.0
52- Highgrove Jct. - Riverside.....	ATSF.....	<u>3.1</u>
		<b>39.1</b>

Use- Commuter Rail Only.

Data Sheet

Southern California Regional Rail Electrification Program

13 Routes

Track Ownership

<u>Route</u>	<u>Owner</u>	<u>Route Mileage</u>
<b>9. San Bernardino - Irvine</b>		
55- San Bernardino - B Yard.....	ATSF.....	1.0
54- B Yard - Colton.....	ATSF.....	2.7
53- Colton - Highgrove Jct.....	ATSF.....	3.5
52- Highgrove Jct. - Riverside.....	ATSF...3.1.*.....	
71- Riverside - W. Riverside.....	ATSF...0.8.**.....	
27- W. Riverside - Atwood .....	ATSF...30.0.***.....	
48- Atwood - Olive Jct. ....	ATSF.....	5.5
22- Olive Jct. - Irvine .....	ATSF... 6.2.****.....	
		<u>12.7 *</u>

Previously covered under Route 8 - Hemet - Riverside.

\*\* Previously covered under Route 6 - Riverside via Ontario.

\*\*\* Previously covered under Route 7 - Riverside via Fullerton.

\*\*\*\* Previously covered under Route 5 - LOSSAN Corridor

Total Route mileage for Route 9- San Bernardino - Irvine if electrified separately = 52.8.

Use- Commuter Rail Only.

If electrified in conjunction with Routes 12 and 5 could serve freight trains, Barstow to San Diego.

**10- Redlands Commuter Line**

68- Mentone - San Bernardino.....	ATSF.....	<u>12.0</u>
		12.0

Use- Commuter Rail Only.

Data Sheet

Southern California Regional Rail Electrification Program

13 Routes

Track Ownership

<u>Route</u>	<u>Ownership</u>	<u>Route Mileage</u>
11- Southern Pacific Rts. Port to Yuma		
28- Port of Los Angeles - Dolores.....	SP.....	5.0.*.....
28- Dolores (ICTF) - J Yard.....	SP.....	15.1.*.....
29- J Yard - Soto St. Jct. ....	SP.....	1.5.*.....
37- Soto St. Jct. - East Jct.....	SCRRA.....	2.8.**.....
38- East Jct. - Alhambra .....	SP.....	5.8
39- Alhambra - El Monte.....	SP.....	6.9
5- El Monte - Bassett .....	SP.....	2.7***.....
70- Bassett - Industry.....	SP.....	3.7
40- Industry - Pomona .....	SP.....	13.3.*.....
41- Pomona- S. Montclair.....	SP.....	3.5.*.....
42- S. Montclair - W. Colton Yd.....	SP.....	19.9.*.....
43- W. Colton - Colton.....	SP.....	1.0 *.....
44- Colton - Indio.....	SP.....	72.2 *.....
45- Indio - Yuma.....	SP.....	124.0 *.....
		<u>16.4</u>

\* Previously covered under Route 1 - UP/SP Corridor.

\*\* Previously covered under Route 6 - Riverside via Ontario.

\*\*\* Segment 5 is not double counted. It appears on Route 2 as a parallel track owned by SCRRA.

Total Route Mileage if electrified separately = 281.7

Use- Freight Only.

Data Sheet

Southern California Regional Rail Electrification Program

13 Routes

Track Ownership

<u>Route</u>	<u>Ownership</u>	<u>Route Mileage</u>
<b>12- Santa Fe Railroad Barstow to Ports</b>		
28- Dolores (ICTF) - J Yard .....	SP.....	24.4.*.....
36- J Yard - Redondo Jct.....	SP.....	0.6
18- Redondo Jct. - Hobart .....	ATSF....	1.3.**.....
19- Hobart - DT Jct.....	ATSF....	7.6.**.....
20- DT Jct. - Fullerton.....	ATSF....	12.9.**.....
26- Fullerton - Atwood.....	ATSF....	5.4.***.....
27- Atwood - W. Riverside.....	ATSF....	30.0.***.....
52- W. Riverside - Riverside.....	ATSF....	0.8.****.....
71- Riverside - Highgrove Jct. ....	ATSF....	3.1.*****.....
53- Highgrove Jct. - Colton.....	ATSF....	3.5.*****.....
54- Colton - B Yard .....	ATSF....	2.7.*****.....
55- B Yard.- San Bernardino .....	ATSF....	1.0.*****.....
56- San Bernardino- Keenbrook.....	ATSF.....	11.9
57- Keenbrook - Summit .....	ATSF....	14.5.*.....
58- Summit - Victorville .....	ATSF....	19.5.*.....
59- Victorville - Barstow.....	ATSF....	36.9.*.....
		<u>12.5</u>

- \* Previously covered under Route 1 UP/SP Corridor.
- \*\* Previously covered under Route 5 LOSSAN Corridor.
- \*\*\* Previously covered under Route 7 Riverside via Fullerton.
- \*\*\*\* Previously covered under Route 6 Riverside via Ontario.
- \*\*\*\*\* Previously covered under Route 8 Hemet.
- \*\*\*\*\* Previously covered under Route 9 San Bernardino - Irvine.

Total Mileage for Route 12 if electrified separately = 176.1

Use- Freight only.

If Redondo Jct. to LAUPT were added (3.8 miles), Route could be used by Amtrak (4 trains per day Barstow to Los Angeles) plus Route 7 Riverside to LAUPT via Fullerton Commuter Trains.(61.8 Route Miles )

Data Sheet

Southern California Regional Rail Electrification Program

13 Routes

Track Ownership

<u>Route</u>	<u>Ownership</u>	<u>Route Mileage</u>
13- Union Pacific Ports to Yermo		(Previously Covered Under)
28- Port of Long Beach - Dolores	UP	24.4 (1)
29- J Yard - Soto St. Jct.	UP	1.5 (1)
30- Soto St. Jct. - E. LA Yard	UP	1.0 (1) (6)
31- E. LA Yard - Bartolo	UP	8.4 (1) (6)
32- Bartolo - Puente Jct.	UP	6.4 (1) (6)
33- Puente Jct.- Spadra	UP	11.7 (1) (6)
34- Spadra- Montclair	UP	7.2 (1) (6)
35- Montclair - W. Riverside	UP	19.9 (6)
52- W. Riverside - Riverside	ATSF	0.8 (6) (7) (9) (12)
71- Riverside - Highgrove Jct.	ATSF	3.1 (8) (9) (12)
53- Highgrove Jct. - Colton	ATSF	3.5 (9) (12)
54- Colton - B Yard	ATSF	2.7 (9) (12)
55- B Yard- San Bernardino	ATSF	1.0 (9) (12)
56- San Bernardino- Keenbrook	ATSF	11.9 (12)
57- Keenbrook - Summit	ATSF	14.5 (1) (12)
58- Summit - Victorville	ATSF	19.5 (1) (12)
59- Victorville- Barstow	ATSF	36.9 (1) (12)
60- Barstow - Daggett	ATSF	7.2 (1)
61- Daggett - Yermo	UP	5.2 (1)
		<u>0.0</u>

Total Route Mileage of Route 13- Union Pacific, Ports to Yermo if electrified separately = 186.8.

Use- Freight Only.

If Soto Street to LAUPT were added (3.7 miles), could also be used by Route 6 Riverside - LAUPT via Ontario commuter trains. (190.5 miles).

**APPENDIX 5-1**

ROUTE SUMMARY FOR OVERHEAD CLEARANCE INVENTORY																			
Route #	Overhead Structure Totals	MINIMUM RECOMMENDATIONS						DESIRABLE RECOMMENDATIONS						RAILROAD RECOMMENDATIONS					
		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
		25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv
Route #1 Total	69	0	0	3	5	16	55	0	0	5	24	26	43	0	2	18	33	48	33
Route #2 Total	26	0	0	1	1	2	24	0	0	1	3	3	22	0	0	3	3	22	22
Route #3 Total	20	0	0	2	5	3	13	0	0	5	6	1	12	0	0	5	6	13	12
Route #4 Total	28	0	0	1	3	2	23	0	0	3	3	2	23	0	1	3	2	23	23
Route #5 Total	80	0	0	2	10	22	30	0	0	3	22	36	21	0	0	20	26	24	18
Route #6 Total	27	0	0	2	4	8	17	0	0	3	7	9	16	0	1	5	6	17	16
Route #7 Total	28	0	0	1	2	4	11	0	0	2	5	9	10	0	1	4	5	10	9
Route #8 Total	8	0	0	0	1	6	7	0	0	0	7	8	1	0	0	6	7	2	1
Route #9 Total	23	0	0	1	2	5	10	0	0	2	7	10	7	0	1	5	7	8	6
Route #10 Total	3	0	0	0	0	1	2	0	0	0	0	2	2	0	0	2	2	0	0
Route #11 Total	64	0	0	1	4	11	50	0	0	2	10	14	50	0	1	9	17	49	43
Route #12 Total	48	0	0	1	3	11	32	0	0	4	18	22	20	0	2	11	22	26	14
Route #13 Total	47	0	0	2	3	12	39	0	0	4	18	22	25	0	1	10	22	33	20
Duplicated Total	471	0	0	17**	43	103	313	0	0	34	130	164	252	0	10	101	158	275	217
Unduplicated Total	280 *	0	0	8**	28	62	185	0	0	17	74	95	151	0	4	61	92	162	131

NOTES: \* The Unduplicated Overhead Structure Total Includes 267 Overhead Bridges, 7 R.R. Truss Bridges, and 6 Tunnels.

\*\* No Overhead Bridges Require The Structure To Be Raised At 25 Kv Minimum Clearance Requirements; Only Tunnels and R.R. Truss Bridges Are Impacted.

SUMMARY FOR OVERHEAD CLEARANCE INVENTORY																			
Segment #	Overhead Structure Totals	MINIMUM RECOMMENDATIONS						DESIRABLE RECOMMENDATIONS						RAILROAD RECOMMENDATIONS					
		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
		25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv
Segment #1 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #2 Total	1	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
Segment #3 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #4 Total	17	0	0	0	0	0	17	0	0	0	0	0	17	0	0	0	0	17	17
Segment #5 Total	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	2
Segment #6 Total	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	2
Segment #7 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #9 Total	4	0	0	0	0	2	3	0	0	0	2	3	1	0	0	2	2	1	1
Segment #10 Total	5	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	3	3
Segment #12 Total	6	0	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	6	6
Segment #13 Total	16	0	0	0	2	2	14	0	0	2	2	2	14	0	1	2	1	14	14
Segment #14 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #15 Total	8	0	0	1	4	3	4	0	0	4	5	1	3	0	0	4	5	4	3
Segment #17 Total	9	0	0	0	0	2	4	0	0	0	0	4	4	0	0	0	0	4	4
Segment #18 Total	1	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
Segment #19 Total	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	2
Segment #20 Total	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #21 Total	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	2	2
Segment #22 Total	4	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
Segment #23 Total	15	0	0	1	2	5	11	0	0	1	7	12	5	0	0	6	8	7	5
Segment #24 Total	25	0	0	0	6	10	7	0	0	1	10	12	3	0	0	10	10	3	3
Segment #25 Total	5	0	0	0	1	1	1	0	0	0	2	2	1	0	0	1	3	2	0
Segment #26 Total	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #27 Total	13	0	0	0	1	2	5	0	0	1	4	5	4	0	1	3	4	4	3
Segment #30 Total	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1
Segment #31 Total	3	0	0	1	1	0	2	0	0	1	1	0	2	0	0	1	1	2	2
Segment #32 Total	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	2
Segment #33 Total	4	0	0	0	0	0	4	0	0	0	1	1	3	0	0	0	1	4	3
Segment #34 Total	4	0	0	0	1	2	3	0	0	1	3	2	1	0	1	2	2	2	1
Segment #35 Total	3	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2
Segment #36 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #37 Total	9	0	0	0	1	4	3	0	0	0	1	4	5	0	0	1	1	4	5
Segment #38 Total	6	0	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	6	6
Segment #39 Total	11	0	0	0	0	0	11	0	0	0	0	0	11	0	0	0	0	11	11

SUMMARY FOR OVERHEAD CLEARANCE INVENTORY																			
Segment #	Overhead Structure Totals	MINIMUM RECOMMENDATIONS						DESIRABLE RECOMMENDATIONS						RAILROAD RECOMMENDATIONS					
		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
		25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv	25 Kv	50 Kv
Segment #40 Total	4	0	0	0	0	2	3	0	0	0	2	3	2	0	0	2	4	2	0
Segment #41 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #42 Total	7	0	0	0	0	1	5	0	0	0	2	3	5	0	0	1	7	5	0
Segment #43 Total	3	0	0	0	1	1	1	0	0	1	1	1	1	0	1	1	1	1	1
Segment #44 Total	18	0	0	0	0	2	17	0	0	0	2	2	16	0	0	2	3	16	15
Segment #45 Total	3	0	0	1	2	1	1	0	0	1	2	1	1	0	0	2	2	1	1
Segment #46 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #48 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #49 Total	2	0	0	0	0	1	1	0	0	0	1	1	1	0	0	1	2	1	0
Segment #50 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #51 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #52 Total	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1
Segment #53 Total	2	0	0	0	0	1	2	0	0	0	1	2	1	0	0	0	1	2	1
Segment #54 Total	3	0	0	1	1	1	1	0	0	1	2	1	0	0	0	2	2	0	0
Segment #55 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #56 Total	10	0	0	0	0	0	9	0	0	0	3	3	6	0	0	0	7	9	2
Segment #57 Total	6	0	0	0	0	2	5	0	0	0	2	5	4	0	0	0	2	6	4
Segment #58 Total	4	0	0	0	0	2	4	0	0	0	3	3	1	0	0	3	4	1	0
Segment #59 Total	3	0	0	1	1	1	2	0	0	1	2	2	1	0	0	2	2	1	1
Segment #60 Total	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #61 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #62 Total	3	0	0	0	0	1	3	0	0	0	2	2	1	0	0	1	2	2	1
Segment #63 Total	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1
Segment #66 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #68 Total	3	0	0	0	0	1	2	0	0	0	0	2	2	0	0	2	2	0	0
Segment #69 Total	7	0	0	0	1	6	6	0	0	0	7	7	0	0	0	6	7	1	0
Segment #70 Total	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1
Segment #71 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Segment #72 Total	15	0	0	0	1	2	2	0	0	0	2	3	3	0	0	2	4	3	1
Total	280 *	0	0	8 **	28	62	185	0	0	17	74	95	151	0	4	61	92	162	131

NOTES: \* The Overhead Structure Total Includes 267 Overhead Bridges, 7 R.R. Truss Bridges, and 6 Tunnels.  
 \*\* No Overhead Bridges Require The Structure To Be Raised At 25 Kv Minimum Clearance Requirements;  
 Only Tunnels and R.R. Truss Bridges Are Impacted.

SUMMARY FOR GRADE CROSSINGS				
Segment #	Grade Crossing Totals	RECOMMENDATION		
		Elimination	Separation*	Modification
Segment #1 Total	0			
Segment #2 Total	0			
Segment #3 Total	0			
Segment #4 Total	0			
Segment #5 Total	7			
Segment #6 Total	27			
Segment #7 Total	3			
Segment #9 Total	40			
Segment #10 Total	1			
Segment #12 Total	8			
Segment #13 Total	23			
Segment #14 Total	6			
Segment #15 Total	22			
Segment #17 Total	0			
Segment #18 Total	0			
Segment #19 Total	2			
Segment #20 Total	11			
Segment #21 Total	17			
Segment #22 Total	14			
Segment #23 Total	7			
Segment #24 Total	28			
Segment #25 Total	16			

NOTE: \* Grade Separations are made only through the implementation of Route #1 – UP/SP Consolidated Corridor

SUMMARY FOR GRADE CROSSINGS				
Segment #	Grade Crossing Totals	RECOMMENDATION		
		Elimination	Separation*	Modification
Segment #26 Total	11			
Segment #27 Total	28			
Segment #30 Total	0			
Segment #31 Total	5		5	
Segment #32 Total	5		5	
Segment #33 Total	7		7	
Segment #34 Total	7		**	
Segment #35 Total	25			
Segment #36 Total	2			
Segment #37 Total	0			
Segment #38 Total	6			
Segment #39 Total	11			
Segment #40 Total	10		10	
Segment #41 Total	6		6	
Segment #42 Total	10		10	
Segment #43 Total	0			
Segment #44 Total	21			
Segment #45 Total	23			
Segment #46 Total	0			
Segment #48 Total	11			
Segment #49 Total	0			
Segment #50 Total	0			

NOTES: \* Grade Separations are made only through the implementation of Route #1 – UP/SP Consolidated Corridor

\*\* Segment #34 Grade Crossings are included in Segments #40 & 41

SUMMARY FOR GRADE CROSSINGS				
Segment #	Grade Crossing Totals	RECOMMENDATION		
		Elimination	Separation*	Modification
Segment #51 Total	0			
Segment #52 Total	7			
Segment #53 Total	2			
Segment #54 Total	7			
Segment #55 Total	0			
Segment #56 Total	3			
Segment #57 Total	1			
Segment #58 Total	0			
Segment #59 Total	10			
Segment #60 Total	0			
Segment #61 Total	0			
Segment #62 Total	0			
Segment #63 Total	0			
Segment #66 Total	0			
Segment #68 Total	42			
Segment #69 Total	53			
Segment #70 Total	5			
Segment #71 Total	2			
Segment #72 Total	6			
<b>Total</b>	<b>558</b>		<b>43</b>	

NOTE: \* Grade Separations are made only through the implementation of Route #1 – UP/SP Consolidated Corridor

**APPENDIX 5-2**

## OVERHEAD CLEARANCE INVENTORY

Name of Route: UP/SP Corridor  
Route #: 1

Legend: CBSM – Concrete Box/Slab (Monolithic)  
CPGN – Concrete Precast Girder (Non-Attached)  
CPGM – Concrete Precast Girder (Monolithic)  
SN – Steel (Non-Attached)  
N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

<u>Segment #</u>	<u>From / To</u>
28	Ports LA/LB – 'J' Yard
29	'J' Yard – Soto Street
30	Soto Street – East Yard
31	East Yard – Bartolo
32	Bartolo – Puente Jct.
33	Puente Junction – Spadra
49	City of Industry – Puente Jct.
40	City of Industry – Pomona
50	Pomona – Spadra
34	Spadra – Montclair
41	Pomona – S. Montclair
45	Indio – Yuma
46	East Yard – Hobart
51	S. Montclair – Montclair
42	S. Montclair – West Colton
62	West Colton – North Bridge
63	North Bridge – Dike
66	Dike – Keenbrook
57	Keenbrook – Summit
58	Summit – Victorville
59	Victorville – Barstow
60	Barstow – Daggett
61	Daggett – Yermo Yard
43	West Colton – Colton
44	Colton – Indio

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
1	30	UP	4.70	Los Angeles	Long Beach Fwy. 710	SN	> 24'-0"								X					X	X		
<b>Segment #30 Total</b>		-	-	-	<b>1</b>		-					0	0	0	0	0	1	0	0	0	0	1	1
1	31	UP	8.90	Los Angeles	Bluff Road	CBSM	> 24'-0"								X						X	X	
1	31	UP	10.80	Los Angeles	San Gabriel River	SN	21'-2"	2'-2"	3'-6"	4'-6"	6'-3"			X	X					X	X		
1	31	UP	11.10	Los Angeles	Beverly Blvd.	SN	> 24'-0"								X						X	X	
<b>Segment #31 Total</b>		-	-	-	<b>3</b>		-					0	0	1	1	0	2	0	0	1	1	2	2
1	32	UP	11.65	Los Angeles	San Gabriel River Fwy. 605	CPGN	> 24'-0"								X						X	X	
1	32	UP	14.30	Los Angeles	Pomona Fwy. 60	CBSM	> 24'-0"								X						X	X	
<b>Segment #32 Total</b>		-	-	-	<b>2</b>		-					0	0	0	0	0	2	0	0	0	0	2	2
1	33	UP	17.91	Los Angeles	Hacienda Blvd.	CPGN	>24'-0"								X						X	X	
1	33	UP	23.96	Los Angeles	Grand Ave.	CPGN	23'-11"		0'-9"	1'-9"	3'-6"				X					X	X		
1	33	UP	25.50	Los Angeles	Temple Ave.	CPGN	>24'-0"								X						X	X	
1	33	UP	28.60	Los Angeles	Orange Fwy. 57	CBSM	>24'-0"								X						X	X	
<b>Segment #33 Total</b>		-	-	-	<b>4</b>		-					0	0	0	0	0	4	0	0	0	1	4	3
1	49	SP	512.1	Los Angeles	Humane Way	CBSM	23'-3"	0'-1"	1'-5"	2'-5"	4'-2"			X	X					X	X		
1	49	SP	512.4	Los Angeles	State St. SR 71	CBSM	25'-4"			0'-4"	2'-1"										X	X	
<b>Segment #49 Total</b>		-	-	-	<b>2</b>		-					0	0	0	0	1	1	0	0	1	2	1	0

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
1	30	UP	4.70	Los Angeles	Long Beach FWY	SN	> 24'-0"									X
<b>Segment #30 Total</b>		--	--	--	1		--	--	0	0	0	0	0	0	1	
1	31	UP	8.90	Los Angeles	Bluff Road	CBSM	> 24'-0"									X
1	31	UP	10.80	Los Angeles	San Gabriel River	SN	21'-2"	3'-3"	5'-0"			X	X			
1	31	UP	11.10	Los Angeles	Beverly Blvd	SN	> 24'-0"									X
<b>Segment #31 Total</b>		--	--	--	3		--	--	0	0	1	1	0	2		
1	32	UP	11.65	Los Angeles	San Gab Fwy 605	CPGN	> 24'-0"									X
1	32	UP	14.30	Los Angeles	Pomona Fwy 60	CBSM	> 24'-0"									X
<b>Segment #32 Total</b>		--	--	--	2		--	--	0	0	0	0	0	2		
1	33	UP	17.91	Los Angeles	Hacienda Blvd	CPGN	>24'-0"									X
1	33	UP	23.96	Los Angeles	Grand Ave	CPGN	23'-11"	0'-6"	2'-3"			X	X			
1	33	UP	25.50	Los Angeles	Temple Ave	CPGN	>24'-0"									X
1	33	UP	28.60	Los Angeles	Orange FWY 57	CBSM	>24'-0"									X
<b>Segment #33 Total</b>		--	--	--	4		--	--	0	0	0	1	1	3		
1	49	SP	512.1	Los Angeles	Humane Way	CBSM	23'-3"	1'-2"	2'-11"			X	X			
1	49	SP	512.4	Los Angeles	State ST 71	CBSM	25'-4"		0'-10"							X
<b>Segment #49 Total</b>		--	--	--	2		--	--	0	0	0	1	1	1		

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
1	40	SP	502.40	Los Angeles	Azusa Ave.	SN	24'-3"		0'-5"	1'-5"	3'-2"					X			X	X			
1	40	SP	511.30	Los Angeles	Omar	N/A	23'-3"	0'-1"	1'-5"	2'-5"	4'-2"				X	X			X	X			
1	40	SP	512.10	Los Angeles	Humane Way	CBSM	23'-3"	0'-1"	1'-5"	2'-5"	4'-2"				X	X			X	X			
1	40	SP	512.40	Los Angeles	State St. SR 71	CBSM	25'-4"			0'-4"	2'-1"								X	X			
<b>Segment #40 Total</b>		--	--	--	4		--					0	0	0	0	2	3	0	0	2	4	2	0
1	50	UP/SP	--	Los Angeles	No Structures																		
<b>Segment #50 Total</b>		--	--	--	0		--					0	0	0	0	0	0	0	0	0	0	0	0
1	34	UP	29.60	Los Angeles	Humane Way	CBSM	>24'-0"									X					X	X	
1	34	UP	30.00	San Bernardino	Valley Blvd. SR 71	CBSM	22'-3"	1'-1"	2'-5"	3'-5"	5'-2"			X	X			X	X				
1	34	UP	35.50	San Bernardino	Central Ave.	CPGN	23'-9"		0'-11"	1'-11"	3'-8"					X				X	X		
1	34	UP	36.60	San Bernardino	Mountain Ave.	CBSM	22'-9"	0'-7"	1'-11"	2'-11"	4'-8"				X	X			X	X			
<b>Segment #34 Total</b>		--	--	--	4		--					0	0	0	1	2	3	0	1	2	2	2	1
1	41	SP	--	San Bernardino	No Structures																		
<b>Segment #41 Total</b>		--	--	--	0		--					0	0	0	0	0	0	0	0	0	0	0	0
1	45	SP	611.40	Riverside	South Indio	CBSM	>24'-0"									X					X	X	
1	45	SP	732.20	Imperial	Indian Res. Rd.	CBSM	22'-6"	0'-10"	2'-2"	3'-2"	4'-11"			X	X				X	X			
1	45	SP	732.29	Imperial	Colorado River	SN	23'-3"	0'-1"	1'-5"	2'-5"	4'-2"			X	X				X	X			
<b>Segment #45 Total</b>		--	--	--	3		--					0	0	1	2	1	1	0	0	2	2	1	1

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
1	40	SP	502.40	Los Angeles	Azusa Ave.	SN	24'-3"	0'-2"	1'-11"					X	X
1	40	SP	511.30	Los Angeles	Omar	N/A	23'-3"	1'-2"	2'-11"			X	X		
1	40	SP	512.10	Los Angeles	Humane Wy.	CBSM	23'-3"	1'-2"	2'-11"			X	X		
1	40	SP	512.40	Los Angeles	State ST 71	CBSM	25'-4"		0'-10"						X
<b>Segment #40 Total</b>		-	-	-	4		-	-	-	0	0	0	2	3	2
1	50	UP/SP	-	Los Angeles	No Structures										
<b>Segment #50 Total</b>		-	-	-	0		-	-	-	0	0	0	0	0	0
1	34	UP	29.60	Los Angeles	Humane Way	CBSM	>24'-0"								X
1	34	UP	30.00	San Bernardino	Valley Blvd. SR 71	CBSM	22'-3"	2'-2"	3'-11"		X	X			
1	34	UP	35.50	San Bernard	Central Ave.	CPGN	23'-9"	0'-8"	2'-5"			X	X		
1	34	UP	36.60	San Bernard	Mountain Ave.	CBSM	22'-9"	1'-8"	3'-5"			X	X		
<b>Segment #34 Total</b>		-	-	-	4		-	-	-	0	0	1	3	2	1
1	41	SP	-	San Bernard	No Structures										
<b>Segment #41 Total</b>		-	-	-	0		-	-	-	0	0	0	0	0	0
1	45	SP	611.40	Riverside	South Indio	CBSM	>24'-0"								X
1	45	SP	732.20	Imperial	Indian Res. Rd.	CBSM	22'-6"	1'-11"	3'-8"			X	X		
1	45	SP	732.29	Imperial	Colorado River	SN	23'-3"	1'-2"	2'-11"		X	X			
<b>Segment #45 Total</b>		-	-	-	3		-	-	-	0	0	1	2	1	1



Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION							
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track			
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv		
1	46	UP	-	Los Angeles	No Structures												
<b>Segment #46 Total</b>		-	-	-	0		-	-	0	0	0	0	0	0	0		
1	51	UP/SP	-	San Bernard	No Structures												
<b>Segment #51 Total</b>		-	-	-	0		-	-	0	0	0	0	0	0	0		
1	42	SP	534.70	San Bernard	Cedar Ave.	CBSM	24'-9"		1'-5"								X
1	42	SP	532.50	San Bernard	Sierra Ave.	CPGN	24'-6"		1'-8"								X
1	42	SP	531.40	San Bernard	Citrus Ave.	CPGN	25'-10"		0'-4"								X
1	42	SP	529.40	San Bernard	Cherry Ave.	CPGN	24'-6"		1'-8"								X
1	42	SP	527.40	San Bernard	Etiwanda Ave.	CPGN	24'-2"	0'-3"	2'-0"						X	X	
1	42	SP	519.00	San Bernard	Mountain Ave.	CBSM	22'-8"	1'-9"	3'-6"				X	X			
1	42	SP	517.90	San Bernard	Central Ave.	CPGN	23'-10"	0'-7"	2'-4"				X	X			
<b>Segment #42 Total</b>		-	-	-	7		-	-	0	0	0	2	3	5			
1	62	SP	488.00	San Bernard	Baseline St.	CBSM	23'-11"	0'-6"	2'-3"				X	X			
1	62	SP	489.30	San Bernard	Foothill Blvd.	N/A	>24'-0"										X
1	62	SP	490.30	San Bernard	Merrill Ave.	N/A	23'-1"	1'-4"	3'-1"				X	X			
<b>Segment #62 Total</b>		-	-	-	3		-	-	0	0	0	2	2	1			
1	63	SP	479.60	San Bernard	15 Freeway	N/A	>24'-0"										X
<b>Segment #63 Total</b>		-	-	-	1		-	-	0	0	0	0	0	1			



Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION							
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track			
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv		
1	66	SP	-	San Bernard	No Structures												
<b>Segment #66 Total</b>		-	-	-	0		-	-	0	0	0	0	0	0	0		
1	57	ATSF	61.70	San Bernard	Pine Lodge West	CBSM	24'-9"		1'-5"								X
1	57	ATSF	60.90	San Bernard	Pine Lodge East	CBSM	24'-3"	0'-2"	1'-11"							X	X
1	57	ATSF	60.10	San Bernard	Gish at FWY 15	CBSM	22'-5"	2'-0"	3'-9"						X	X	
1	57	ATSF	59.90	San Bernard	Alray at FWY 15	CBSM	22'-7"	1'-10"	3'-7"						X	X	
1	57	ATSF	59.18	San Bernard	Tunnel #2	-	23'-8"	0'-9"	2'-6"			X	X				
1	57	ATSF	58.86	San Bernard	Tunnel #1	-	23'-8"	0'-9"	2'-6"			X	X				
<b>Segment #57 Total</b>		-	-	-	6		-	-	-	0	0	0	2	5	4		
1	58	ATSF	45.30	San Bernard	Main St.	CPGN	22'-9"	1'-8"	3'-5"			X	X				
1	58	ATSF	41.60	San Bernard	Bear Valley Cutoff	CPGN	22'-9"	1'-8"	3'-5"			X	X				
1	58	ATSF	39.10	San Bernard	R.R. Overpass	N/A	24'-2"	0'-3"	2'-0"			X	X				
1	58	ATSF	37.10	San Bernard	Bear Valley St.	SN	24'-5"		1'-9"								X
<b>Segment #58 Total</b>		-	-	-	4		-	-	-	0	0	0	3	3	1		
1	59	ATSF	36.00	San Bernard	FWY I-15	SN	23'-11"	0'-6"	2'-3"					X	X		
1	59	ATSF	34.10	San Bernard	Mojave River	SN	21'-11"	2'-6"	4'-3"		X	X					
1	59	ATSF	746.50	San Bernard	First St.	N/A	22'-11"	1'-6"	3'-3"			X	X				
<b>Segment #59 Total</b>		-	-	-	3		-	-	-	0	0	1	2	2	1		

















Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION													
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track							
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv						
2	4	SCRRA	495.41	Los Angeles	San Bernardino Fwy. 10	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	492.57	Los Angeles	West Del Mar	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	492.50	Los Angeles	Jackson St.	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	491.69	Los Angeles	Almanor Ave.	SN	>24'-0"											X				X	X						
2	4	SCRRA	490.49	Los Angeles	Marguerita Ave.	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	489.24	Los Angeles	Warwick Rd.	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	488.77	Los Angeles	Long Beach Fwy. 710 Ramp	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	488.70	Los Angeles	Pedestrian OH	N/A	>24'-0"											X				X	X						
2	4	SCRRA	488.60	Los Angeles	Westbound Busway	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	488.42	Los Angeles	Campus Rd.	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	488.27	Los Angeles	Eastern Ave.	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	487.70	Los Angeles	Herbert Ave.	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	486.53	Los Angeles	Soto St.	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	486.45	Los Angeles	Marengo St.	CBSM	>24'-0"											X				X	X						
2	4	SCRRA	485.96	Los Angeles	State St.	CPGN	>24'-0"											X				X	X						
2	4	SCRRA	485.79	Los Angeles	Golden State Fwy. 5	N/A	>24'-0"											X				X	X						
2	4	SCRRA	483.38	Los Angeles	Mission Rd.	CBSM	>24'-0"											X				X	X						
<b>Segment #4 Total</b>		--	--	--	17		--											0	0	0	0	0	17	0	0	0	0	17	17
2	5	SCRRA	495.59	Los Angeles	San Bernardino Fwy. 10	SN	>24'-0"											X				X	X						
2	5	SCRRA	497.01	Los Angeles	San Gabriel River Fwy. 605	CBSM	>24'-0"											X				X	X						
<b>Segment #5 Total</b>		--	--	--	2		--											0	0	0	0	0	2	0	0	0	0	2	2
2	6	SCRRA	503.53	Los Angeles	San Bernardino Fwy. 10	CBSM	>24'-0"											X				X	X						
2	6	SCRRA	509.10	Los Angeles	Foothill Fwy. 210	CBSM	>24'-0"											X				X	X						
<b>Segment #6 Total</b>		--	--	--	2		--											0	0	0	0	0	2	0	0	0	0	2	2

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
2	4	SCRRA	495.41	Los Angeles	San Bernardino FWY	CBSM	>24'-0"									X
2	4	SCRRA	492.57	Los Angeles	West Del Mar	CBSM	>24'-0"									X
2	4	SCRRA	492.50	Los Angeles	Jackson St.	CBSM	>24'-0"									X
2	4	SCRRA	491.69	Los Angeles	Almanor Ave.	SN	>24'-0"									X
2	4	SCRRA	490.49	Los Angeles	Marguerita Ave.	CBSM	>24'-0"									X
2	4	SCRRA	489.24	Los Angeles	Warwick Rd.	CBSM	>24'-0"									X
2	4	SCRRA	488.77	Los Angeles	710 Freeway Ramp	CBSM	>24'-0"									X
2	4	SCRRA	488.70	Los Angeles	Pedestrian OH	N/A	>24'-0"									X
2	4	SCRRA	488.60	Los Angeles	Westbound Busway	CBSM	>24'-0"									X
2	4	SCRRA	488.42	Los Angeles	Campus Rd.	CBSM	>24'-0"									X
2	4	SCRRA	488.27	Los Angeles	Eastern Ave.	CBSM	>24'-0"									X
2	4	SCRRA	487.70	Los Angeles	Herbert Ave.	CBSM	>24'-0"									X
2	4	SCRRA	486.53	Los Angeles	Soto St.	CBSM	>24'-0"									X
2	4	SCRRA	486.45	Los Angeles	Marengo St.	CBSM	>24'-0"									X
2	4	SCRRA	485.96	Los Angeles	State St.	CPGN	>24'-0"									X
2	4	SCRRA	485.79	Los Angeles	Golden State FWY	N/A	>24'-0"									X
2	4	SCRRA	483.38	Los Angeles	Mission Rd.	CBSM	>24'-0"									X
<b>Segment #4 Total</b>		--	--	--	17		--			0	0	0	0	0	0	17
2	5	SCRRA	495.59	Los Angeles	Freeway I-10	SN	>24'-0"									X
2	5	SCRRA	497.01	Los Angeles	Freeway 605	CBSM	>24'-0"									X
<b>Segment #5 Total</b>		--	--	--	2		--			0	0	0	0	0	0	2
2	6	SCRRA	503.53	Los Angeles	Freeway 10	CBSM	>24'-0"									X
2	6	SCRRA	509.10	Los Angeles	Freeway 210	CBSM	>24'-0"									X
<b>Segment #6 Total</b>		--	--	--	2		--			0	0	0	0	0	0	2



Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION								
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track				
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv			
2	7	ATSF	-	Los Angeles	No Structures													
<b>Segment #7 Total</b>		-	-	-	0		-			0	0	0	0	0	0			
2	9	ATSF	94.90	San Bernardino	Devore FWY 15	CBSM	23'-0"	1'-5"	3'-2"					X	X			
2	9	ATSF	91.71	San Bernardino	Cherry Ave.	CPGN	23'-0"	1'-5"	3'-2"				X	X				
2	9	ATSF	83.28	San Bernardino	SPRR	CBSM	23'-4"	1'-1"	2'-10"				X	X				
2	9	ATSF	81.52	San Bernardino	Mount Vernon Ave.	SN	N/A											
<b>Segment #9 Total</b>		-	-	-	4		-			0	0	0	2	3	1			
<b>Segment #1 Total</b>					0					0	0	0	0	0	0			
<b>Segment #2 Total</b>					1					0	0	1	1	0	0			
<b>Segment #3 Total</b>					0					0	0	0	0	0	0			
<b>Segment #4 Total</b>					17					0	0	0	0	0	17			
<b>Segment #5 Total</b>					2					0	0	0	0	0	2			
<b>Segment #6 Total</b>					2					0	0	0	0	0	2			
<b>Segment #7 Total</b>					0					0	0	0	0	0	0			
<b>Segment #9 Total</b>					4					0	0	0	2	3	1			
<b>Route #2 Total</b>					26					0	0	1	3	3	22			



## OVERHEAD CLEARANCE INVENTORY

Name of Route: Moorpark Commuter  
Route #: 3

**Legend:** CBSM – Concrete Box/Slab (Monolithic)  
CPGN – Concrete Precast Girder (Non-Attached)  
CPGM – Concrete Precast Girder (Monolithic)  
SN – Steel (Non-Attached)  
N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

**Segment #**  
1  
2  
10  
12  
14  
15

**From / To**  
Laupt – Mission Tower  
Mission Tower – East Junction  
East Junction – Maintenance Facility  
Maintenance Facility – Burbank  
Burbank – Gemco  
Gemco – Moorpark

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION								
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track				
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv			
3	1	SCRRA	–	Los Angeles	No Structures													
<b>Segment #1 Total</b>		–	–	–	0		–			0	0	0	0	0	0			
3	2	SCRRA	482.58	Los Angeles	L.A. River	SN	21'-10"	2'-7"	4'-4"			X	X					
<b>Segment #2 Total</b>		–	–	–	1		–			0	0	1	1	0	0			
3	10	SCRRA/SP	481.50	Los Angeles	Spring Street	CBSM	N/A											
3	10	SCRRA/SP	481.30	Los Angeles	Broadway	CBSM	N/A											
3	10	SCRRA/SP	480.80	Los Angeles	Figueroa St @ FW 110	SN	>24'-0"											X
3	10	SCRRA/SP	480.70	Los Angeles	Dayton @ Riverside	SN	>24'-0"											X
3	10	SCRRA/SP	480.60	Los Angeles	Elysian @ FWY I-5	SN	>24'-0"											X
<b>Segment #10 Total</b>		–	–	–	5		–			0	0	0	0	0	0			3

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
3	12	SCRRA/SP	472.10	Los Angeles	Magnolia Blvd.	CBSM	>24'-0"											X	X				
3	12	SCRRA/SP	472.20	Los Angeles	Olive Ave.	CPGN	>24'-0"											X	X				
3	12	SCRRA/SP	472.50	Los Angeles	Providencia OH ST 6	SN	>24'-0"											X	X				
3	12	SCRRA/SP	473.40	Los Angeles	Western Ave.	CPGN	>24'-0"											X	X				
3	12	SCRRA/SP	474.35	Los Angeles	L.A. River SR 134	CBSM	>24'-0"											X	X				
3	12	SCRRA/SP	478.20	Los Angeles	SP YD OH ST 1	SN	>24'-0"											X	X				
<b>Segment #12 Total</b>		-	-	-	6		-				0	0	0	0	0	6	0	0	0	0	6	6	
3	14	SCRRA/SP	-	Los Angeles	No Structures																		
<b>Segment #14 Total</b>		-	-	-	0		-				0	0	0	0	0	0	0	0	0	0	0	0	
3	15	SP	432.20	Ventura	Madera Rd.	CBSM	>24'-0"											X	X				
3	15	SP	440.30	Ventura	Santa Susana Pass Rd.	CPGN	23'-11"		0'-9"	1'-9"	3'-6"							X	X				
3	15	SP	441.23	Ventura	Tunnel #26	Conc	21'-0"	1'-8"	2'-8"	4'-8"	6'-5"			X	X			X	X				
3	15	SP	442.92	Los Angeles	Tunnel #27	Conc	22'-0"	0'-8"	1'-8"	3'-8"	5'-5"		X	X				X	X				
3	15	SP	443.90	Los Angeles	Tunnel #28	Conc	21'-2"	1'-6"	2'-6"	4'-6"	6'-3"			X	X			X	X				
3	15	SP	443.90	Los Angeles	Santa Susana	CPGN	21'-8"	1'-8"	3'-0"	4'-0"	5'-9"			X	X			X	X				
3	15	SP	448.55	Los Angeles	Nordoff St.	CBSM	>24'-0"											X	X				
3	15	SP	453.50	Los Angeles	Raymer OH SR 405	CPGN	>24'-0"											X	X				
<b>Segment #15 Total</b>		-	-	-	8		-				0	0	1	4	3	4	0	0	4	5	4	3	

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
3	12	SCRRA/SP	472.10	Los Angeles	Magnolia Blvd.	CBSM	>24'-0"									X
3	12	SCRRA/SP	472.20	Los Angeles	Olive Ave	CPGN	>24'-0"									X
3	12	SCRRA/SP	472.50	Los Angeles	Providencia OH ST 6	SN	>24'-0"									X
3	12	SCRRA/SP	473.40	Los Angeles	Western Ave	CPGN	>24'-0"									X
3	12	SCRRA/SP	474.85	Los Angeles	L Angeles Rv ST 134	CBSM	>24'-0"									X
3	12	SCRRA/SP	478.20	Los Angeles	SP YD OH ST 1	SN	>24'-0"									X
<b>Segment #12 Total</b>		-	-	-	6	-	-			0	0	0	0	0	0	6
3	14	SCRRA/SP	-	Los Angeles	No Structures											
<b>Segment #14 Total</b>		-	-	-	0	-	-			0	0	0	0	0	0	0
3	15	SP	432.20	Ventura	Madera Rd	CBSM	>24'-0"									X
3	15	SP	440.30	Ventura	Santa Susana Pass Rd	CPGN	23'-11"	0'-6"	2'-3"				X	X		
3	15	SP	441.23	Ventura	Tunnel #26	Conc	21'-0"	3'-5"	5'-2"			X	X			
3	15	SP	442.92	Los Angeles	Tunnel #27	Conc	22'-0"	2'-5"	4'-2"			X	X			
3	15	SP	443.90	Los Angeles	Tunnel #28	Conc	21'-2"	3'-3"	5'-0"			X	X			
3	15	SP	443.90	Los Angeles	Santa Susana	CPGN	21'-8"	2'-9"	4'-6"			X	X			
3	15	SP	448.55	Los Angeles	Norooff St	CBSM	>24'-0"									X
3	15	SP	453.50	Los Angeles	Raymer OH SR 405	CPGN	>24'-0"									X
<b>Segment #15 Total</b>		-	-	-	8	-	-			0	0	4	5	1	3	







## OVERHEAD CLEARANCE INVENTORY

Name of Route: Santa Clarita Commuter

Route #: 4

**Legend:** CBSM – Concrete Box/Slab (Monolithic)  
 CPGN – Concrete Precast Girder (Non-Attached)  
 CPGM – Concrete Precast Girder (Monolithic)  
 SN – Steel (Non-Attached)  
 N/A – Not Available  
 SCRRA – So. Cal. Reg. Rail Auth.  
 UP – Union Pacific RR  
 SP – Southern Pacific RR  
 ATSF – Santa Fe RR

<u>Segment #</u>	<u>From / To</u>
1	Laupt – Mission Tower
2	Mission Tower – East Junction
10	East Junction – Maintenance Facility
12	Maintenance Facility – Burbank
13	Burbank – Saugus

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION								
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track				
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv			
4	1	SCRRA	–	Los Angeles	No Structures													
<b>Segment #1 Total</b>		–	–	–	0					0	0	0	0	0	0			
4	2	SCRRA	482.58	Los Angeles	L.A. River	SN	21'-10"	2'-7"	4'-4"			X	X					
<b>Segment #2 Total</b>		–	–	–	1		–			0	0	1	1	0	0			
4	10	SCRRA/SP	481.50	Los Angeles	Spring Street	CBSM	N/A											
4	10	SCRRA/SP	481.30	Los Angeles	Broadway	CBSM	N/A											
4	10	SCRRA/SP	480.80	Los Angeles	Figueroa St @ Fwy110	SN	>24'-0"											X
4	10	SCRRA/SP	480.70	Los Angeles	Dayton @ Riverside	SN	>24'-0"											X
4	10	SCRRA/SP	480.60	Los Angeles	Elysian @ FWY I-5	SN	>24'-0"											X
<b>Segment #10 Total</b>		–	–	–	5		–			0	0	0	0	0	0			3

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
4	12	SCRRA/SP	472.10	Los Angeles	Magnolia Blvd.	CBSM	>24'-0"												X	X			
4	12	SCRRA/SP	472.20	Los Angeles	Olive Ave.	CPGN	>24'-0"												X	X			
4	12	SCRRA/SP	472.50	Los Angeles	Providencia OH ST 6	SN	>24'-0"												X	X			
4	12	SCRRA/SP	473.40	Los Angeles	Western Ave.	CPGN	>24'-0"												X	X			
4	12	SCRRA/SP	474.85	Los Angeles	L.A. River SR 134	CBSM	>24'-0"												X	X			
4	12	SCRRA/SP	478.20	Los Angeles	SP YD OH ST 1	SN	>24'-0"												X	X			
<b>Segment #12 Total</b>		-	-	-	6		-					0	0	0	0	0	6	0	0	0	0	6	6
4	13	SP	454.92	Los Angeles	TUNNEL # 25	CONC.	21'-8"	1'-0"	2'-0"	4'-0"	5'-9"			X	X				X	X			
4	13	SP	456.14	Los Angeles	Ramp P	N/A	>24'-0"												X	X			
4	13	SP	456.18	Los Angeles	N. Connector	N/A	>24'-0"												X	X			
4	13	SP	456.20	Los Angeles	Weldon Canyon Fwy. 5	N/A	>24'-0"												X	X			
4	13	SP	456.24	Los Angeles	SR 14/5	N/A	>24'-0"												X	X			
4	13	SP	456.26	Los Angeles	South Connector	N/A	>24'-0"												X	X			
4	13	SP	456.28	Los Angeles	RT 14/5 Sep.	CBSM	>24'-0"												X	X			
4	13	SP	456.30	Los Angeles	Sierra Hwy.	CBSM	22'-2"	1'-2"	2'-6"	3'-6"	5'-3"			X	X			X	X				
4	13	SP	457.10	Los Angeles	W. Sylmar	N/A	>24'-0"												X	X			
4	13	SP	457.60	Los Angeles	Balboa Blvd.	CBSM	>24'-0"												X	X			
4	13	SP	458.09	Los Angeles	SR 210/5 Sep.	CBSM	23'-11"		0'-9"	1'-9"	3'-6"								X	X			
4	13	SP	458.10	Los Angeles	San Fernando Fwy. 5	CBSM	23'-10"		0'-10"	1'-10"	3'-7"								X	X			
4	13	SP	458.20	Los Angeles	San Fernando Rd.	CPGN	>24'-0"												X	X			
4	13	SP	462.80	Los Angeles	San Fernando Rd.	CBSM	>24'-0"												X	X			
4	13	SP	467.00	Los Angeles	Sun Valley Fwy. 5	SN	>24'-0"												X	X			
4	13	SP	471.50	Los Angeles	Burbank Blvd.	CPGN	>24'-0"												X	X			
<b>Segment #13 Total</b>		-	-	-	16		-					0	0	0	2	2	14	0	1	2	1	14	14

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
4	12	SCRRA/SP	472.10	Los Angeles	Magnolia Blvd.	CBSM	>24'-0"									X
4	12	SCRRA/SP	472.20	Los Angeles	Olive Ave	CPGN	>24'-0"									X
4	12	SCRRA/SP	472.50	Los Angeles	Providencia OH ST 6	SN	>24'-0"									X
4	12	SCRRA/SP	473.40	Los Angeles	Western Ave	CPGN	>24'-0"									X
4	12	SCRRA/SP	474.85	Los Angeles	L Angeles Rv ST 134	CBSM	>24'-0"									X
4	12	SCRRA/SP	478.20	Los Angeles	SP YD OH ST 1	SN	>24'-0"									X
<b>Segment #12 Total</b>		-	-	-	6		-			0	0	0	0	0	0	6
4	13	SP	454.92	Los Angeles	TUNNEL # 25	CONC.	21'-8"	2'-9"	4'-6"			X	X			
4	13	SP	456.14	Los Angeles	Ramp P	N/A	>24'-0"									X
4	13	SP	456.18	Los Angeles	N. Connector	N/A	>24'-0"									X
4	13	SP	456.20	Los Angeles	Weldon Canyon ST 5	N/A	>24'-0"									X
4	13	SP	456.24	Los Angeles	SR 14/5	N/A	>24'-0"									X
4	13	SP	456.26	Los Angeles	South Connector	N/A	>24'-0"									X
4	13	SP	456.28	Los Angeles	RT 14/5 SEP	CBSM	>24'-0"									X
4	13	SP	456.30	Los Angeles	Sierra HWY	CBSM	22'-2"	2'-3"	4'-0"			X	X			
4	13	SP	457.10	Los Angeles	W Sylmar	N/A	>24'-0"									X
4	13	SP	457.60	Los Angeles	Balboa Bl	CBSM	>24'-0"									X
4	13	SP	458.09	Los Angeles	SR 210/5 SEP	CBSM	23'-11"	0'-6"	2'-3"					X	X	
4	13	SP	458.10	Los Angeles	San Fernando SR 5	CBSM	23'-10"	0'-7"	2'-4"					X	X	
4	13	SP	458.20	Los Angeles	San Fernando Rd	CPGN	>24'-0"									X
4	13	SP	462.80	Los Angeles	San Fernando Rd	CBSM	>24'-0"									X
4	13	SP	467.00	Los Angeles	Sun Valley SR 5	SN	>24'-0"									X
4	13	SP	471.50	Los Angeles	Burbank Blvd	CPGN	>24'-0"									X
<b>Segment #13 Total</b>		-	-	-	16		-			0	0	2	2	2	2	14







## OVERHEAD CLEARANCE INVENTORY

Name of Route: LOSSAN Corridor  
Route #: 5

**Legend:** CBSM – Concrete Box/Slab (Monolithic)  
CPGN – Concrete Precast Girder (Non-Attached)  
CPGM – Concrete Precast Girder (Monolithic)  
SN – Steel (Non-Attached)  
N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

Segment #	From / To
1	LAUPT – Mission Tower
17	Mission Tower – Redondo
18	Redondo – Hobart
19	Hobart – DT Junction
20	DT Junction – Fullerton
21	Fullerton – Olive
22	Olive – Irvine
72	Irvine – San Juan Capistrano
23	San Juan Capistrano – Oceansid
24	Oceanside – San Diego
25	San Diego – National City

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION								
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track				
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv			
5	1	SCRRA	–	Los Angeles	No Structures													
<b>Segment #1 Total</b>		–	–	–	0		–			0	0	0	0	0	0			
5	17	ATSF	140.50	Los Angeles	Macy St.	CBSM	23'–6"	0'–11"	2'–8"						X	X		
5	17	ATSF	140.60	Los Angeles	Aliso Viaduct	CBSM	N/A											
5	17	ATSF	140.70	Los Angeles	101 FWY	CBSM	24'–0"	0'–5"	2'–2"						X	X		
5	17	ATSF	141.10	Los Angeles	1st St.	CBSM	22'–4"	2'–1"	3'–10"						X	X		
5	17	ATSF	141.50	Los Angeles	4th St.	CBSM	N/A											
5	17	ATSF	141.70	Los Angeles	6th St.	CBSM	N/A											
5	17	ATSF	142.00	Los Angeles	7th St.	CBSM	22'–2"	2'–3"	4'–0"						X	X		
5	17	ATSF	142.40	Los Angeles	Santa Monica FWY	CPGM	N/A											
5	17	ATSF	142.90	Los Angeles	9th St. – Olympic Blvd.	CBSM	N/A											
<b>Segment #17 Total</b>		–	–	–	9		–			0	0	0	0	4	4			

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
5	18	ATSF	143.50	Los Angeles	North Bridge	N/A	22'-0"	1'-4"	2'-8"	3'-8"	5'-5"			X	X			X	X				
<b>Segment #18 Total</b>		-	-	-	1	-	-					0	0	1	1	0	0	0	0	1	1	0	0
5	19	ATSF	146.40	Los Angeles	Long Beach Fwy. 710	SN	24'-6"		0'-2"	1'-2"	2'-11"					X				X	X		
5	19	ATSF	151.90	Los Angeles	Slauson Ave.	SN	24'-6"		0'-2"	1'-2"	2'-11"					X				X	X		
<b>Segment #19 Total</b>		-	-	-	2	-	-					0	0	0	0	0	2	0	0	0	0	2	2
5	20	ATSF	152.20	Los Angeles	San Gabriel River Fwy. 605	CBSM	N/A																
5	20	ATSF	159.60	Los Angeles	Alondra Blvd.	CBSM	N/A																
<b>Segment #20 Total</b>		-	-	-	2	-	-					0	0	0	0	0	0	0	0	0	0	0	0
5	21	ATSF	166.60	Orange	Riverside Fwy. 91	SN	22'-9"	0'-7"	1'-11"	2'-11"	4'-8"			X	X					X	X		
5	21	ATSF	170.80	Orange	Orange Fwy. 57	CPGM	23'-4"		1'-4"	2'-4"	4'-1"				X					X	X		
<b>Segment #21 Total</b>		-	-	-	2	-	-					0	0	0	0	1	2	0	0	0	0	2	2
5	22	ATSF	173.40	Orange	Garden Grove Fwy. 22	CPGN	N/A																
5	22	ATSF	174.78	Orange	Santa Ana Fwy. 5	CPGN	N/A																
5	22	ATSF	177.39	Orange	Costa Mesa Fwy. 55	SN	22'-10"	0'-6"	1'-10"	2'-10"	4'-7"			X	X					X	X		
5	22	ATSF	178.70	Orange	Yale Ave. (Bikeway)	N/A	N/A																
<b>Segment #22 Total</b>		-	-	-	4	-	-					0	0	0	0	1	1	0	0	0	0	1	1

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
5	8	ATSF	143.50	Los Angeles	North Bridge	N/A	22'-0"	2'-5"	4'-2"			X	X		
<b>Segment #18 Total</b>		--	--	--	1	--	--			0	0	1	1	0	0
5	19	ATSF	146.40	Los Angeles	Long Beach FWY 710	SN	24'-6"		1'-8"						X
5	19	ATSF	151.90	Los Angeles	Slauson Ave.	SN	24'-6"		1'-8"						X
<b>Segment #19 Total</b>		--	--	--	2	--	--			0	0	0	0	0	2
5	20	ATSF	152.20	Los Angeles	605 FWY	CBSM	N/A								
5	20	ATSF	159.60	Los Angeles	Alondra Blvd.	CBSM	N/A								
<b>Segment #20 Total</b>		--	--	--	2	--	--			0	0	0	0	0	0
5	21	ATSF	166.60	Orange	Riverside FWY (91)	SN	22'-9"	1'-8"	3'-5"					X	X
5	21	ATSF	170.80	Orange	Orange FWY (57)	CPGM	23'-4"	1'-1"	2'-10"					X	X
<b>Segment #21 Total</b>		--	--	--	2	--	--			0	0	0	0	2	2
5	22	ATSF	173.40	Orange	Garden Grove FWY 22	CPGN	N/A								
5	22	ATSF	174.78	Orange	Santa Ana FWY 5	CPGN	N/A								
5	22	ATSF	177.39	Orange	Tustin ST FWY 55	SN	22'-10"	1'-7"	3'-4"						
5	22	ATSF	178.70	Orange	Yale Ave. (bikeway)	N/A	N/A							X	X
<b>Segment #22 Total</b>		--	--	--	4	--	--			0	0	0	0	1	1



Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
5	72	ATSF	179.70	Orange	Myford Rd.	CBSM	N/A									
5	72	ATSF	180.50	Orange	Culver Dr.	N/A	N/A									
5	72	ATSF	181.30	Orange	Yale Ave.	CPGM	23'-0"	1'-5"	3'-2"				X	X		
5	72	ATSF	182.00	Orange	Jeffrey Rd.	N/A	N/A									
5	72	ATSF	183.20	Orange	I-5 Santa Ana FWY	CPGM	N/A									
5	72	ATSF	185.82	Orange	Alton PKWY	CBSM	N/A									
5	72	ATSF	186.50	Orange	Bake Parkway	CBSM	N/A									
5	72	ATSF	188.20	Orange	El Toro Rd.	CBSM	25'-3"		0'-11"							X
5	72	ATSF	188.60	Orange	Los Alisos Blvd.	CBSM	N/A									
5	72	ATSF	189.30	Orange	Alicia PKWY	CBSM	24'-0"	0'-5"	2'-2"					X	X	
5	72	ATSF	190.40	Orange	La Paz Rd.	CPGM	N/A									
5	72	ATSF	190.50	Orange	I-5 Santa Ana FWY	CBSM	25'-3"		0'-11"							X
5	72	ATSF	191.70	Orange	Oso Parkway	CBSM	N/A									
5	72	ATSF	193.10	Orange	Crown Valley PKWY	CBSM	22'-6"	1'-11"	3'-8"				X	X		
5	72	ATSF	193.90	Orange	Paseo De Colinas	CBSM	N/A									
<b>Segment #72 Total</b>		--	--	--	15	--	--				0	0	0	2	3	3
5	23	ATSF	200.00	Orange	Serra OH @ PCH	CPGN	23'-9"	0'-8"	2'-5"				X	X		
5	23	ATSF	200.70	Orange	Capstrno. Beach Ped.	CPGN	24'-7"		1'-7"					X		
5	23	ATSF	205.10	Orange	Pedestrian OP	CPGN	23'-0"	1'-5"	3'-2"				X	X		
5	23	ATSF	209.50	San Diego	I-5 Santa Ana FWY	CBSM	23'-10"	0'-7"	2'-4"					X	X	
5	23	ATSF	215.70	San Diego	Agra I-5	CBSM	23'-2"	1'-3"	3'-0"					X	X	
5	23	ATSF	216.00	San Diego	Don Tank (private)	CBSM	23'-7"	0'-10"	2'-7"				X	X		
5	23	ATSF	219.60	San Diego	Aliso Canyon	CBSM	23'-8"	0'-9"	2'-6"					X	X	
5	23	ATSF	221.40	San Diego	Cockleburr	CBSM	23'-5"	1'-0"	2'-9"				X	X		
5	23	ATSF	222.60	San Diego	Stuart I-5	CPGN	21'-9"	2'-8"	4'-5"					X	X	
5	23	ATSF	223.10	San Diego	Fallbrook Jct.	SN	21'-9"	2'-8"	4'-5"			X	X			
5	23	ATSF	223.80	San Diego	Fallbrook Wye	CPGN	N/A									
5	23	ATSF	223.90	San Diego	Fallbrook OH ST-5	CBSM	N/A									
5	23	ATSF	224.50	San Diego	I-5 Freeway	CBSM	23'-2"	1'-3"	3'-0"					X	X	





Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION						RAILROAD RECOMMENDATION					
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
5	24	ATSF	266.20	San Diego	I-5	N/A	23'-0"	0'-4"	1'-8"	2'-8"	4'-5"					X	X					X	X
<b>Segment #24 Total</b>		--	--	--	25	--	--					0	0	0	6	10	7	0	0	10	10	3	3
5	25	ATSF	268.90		Harbor Dr.	N/A	24'-0"		0'-8"	1'-8"	3'-5"						X					X	X
5	25	ATSF	269.50		S. Coronado ST-75	N/A	22'-8"	0'-8"	2'-0"	3'-0"	4'-9"			X	X				X	X			
5	25	ATSF	N/A		Navy (private)	N/A	N/A																
5	25	ATSF	271.19		Pedestrian OP	N/A	N/A																
5	25	ATSF	271.20		Vic Harbor 32nd Ped.	N/A	25'-0"			0'-8"	2'-5"										X	X	
<b>Segment #25 Total</b>		--	--	--	5	--	--					0	0	0	1	1	1	0	0	1	3	2	0
<b>Segment #1 Total</b>					0							0	0	0	0	0	0	0	0	0	0	0	0
<b>Segment #17 Total</b>					9							0	0	0	0	2	4	0	0	0	0	4	4
<b>Segment #18 Total</b>					1							0	0	1	1	0	0	0	0	1	1	0	0
<b>Segment #19 Total</b>					2							0	0	0	0	0	2	0	0	0	0	2	2
<b>Segment #20 Total</b>					2							0	0	0	0	0	0	0	0	0	0	0	0
<b>Segment #21 Total</b>					2							0	0	0	0	1	2	0	0	0	0	2	2
<b>Segment #22 Total</b>					4							0	0	0	0	1	1	0	0	0	0	1	1
<b>Segment #72 Total</b>					15							0	0	0	1	2	2	0	0	2	4	3	1
<b>Segment #23 Total</b>					15							0	0	1	2	5	11	0	0	6	8	7	5
<b>Segment #24 Total</b>					25							0	0	0	6	10	7	0	0	10	10	3	3
<b>Segment #25 Total</b>					5							0	0	0	1	1	1	0	0	1	3	2	0
<b>Route #5 Total</b>					80							0	0	2	10	22	30	0	0	20	26	24	18

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
5	24	ATSF	266.20	San Diego	I-5 FWY	N/A	23'-0"	1'-5"	3'-2"					X	X
<b>Segment #24 Total</b>		-	-	-	25	-	-			0	0	1	10	12	3
5	25	ATSF	268.90		Harbor Dr.	N/A	24'-0"	0'-5"	2'-2"					X	X
5	25	ATSF	269.50		S. Coronado ST-75	N/A	22'-8"	1'-9"	3'-6"					X	X
5	25	ATSF	N/A		Navy (private)	N/A	N/A								
5	25	ATSF	271.19		Pedestrian OP	N/A	N/A								
5	25	ATSF	271.20		Vic Harbor 32nd Ped.	N/A	25'-0"		1'-2"						X
<b>Segment #25 Total</b>		-	-	-	5	-	-			0	0	0	2	2	1
<b>Segment #1 Total</b>					0					0	0	0	0	0	0
<b>Segment #17 Total</b>					9					0	0	0	0	4	4
<b>Segment #18 Total</b>					1					0	0	1	1	0	0
<b>Segment #19 Total</b>					2					0	0	0	0	0	2
<b>Segment #20 Total</b>					2					0	0	0	0	0	0
<b>Segment #21 Total</b>					2					0	0	0	0	2	2
<b>Segment #22 Total</b>					4					0	0	0	0	1	1
<b>Segment #72 Total</b>					15					0	0	0	2	3	3
<b>Segment #23 Total</b>					15					0	0	1	7	12	5
<b>Segment #24 Total</b>					25					0	0	1	10	12	3
<b>Segment #25 Total</b>					5					0	0	0	2	2	1
<b>Route #5 Total</b>					80					0	0	3	22	36	21





Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
6	37	SCRRA	0.50	Los Angeles	Macy St.	CBSM	22'-7"	0'-9"	2'-1"	3'-1"	4'-10"				X	X			X	X			
6	37	SCRRA	0.39	Los Angeles	Aliso Viaduct	CBSM	26'-0"				1'-5"											X	
6	37	SCRRA	0.40	Los Angeles	Hollywood Fwy. 101	CBSM	21'-11"	1'-5"	2'-9"	3'-9"	5'-6"			X	X						X	X	
6	37	SCRRA	0.00	Los Angeles	East 1st St.	CBSM	25'-3"			0'-5"	2'-2"										X	X	
6	37	SCRRA	0.00	Los Angeles	4th St.	CBSM	31'-3"																
6	37	SCRRA	0.60	Los Angeles	6th St.	CBSM	>30'-0"																
6	37	SCRRA	0.90	Los Angeles	7th St.	CBSM	22'-3"	1'-1"	2'-5"	3'-5"	5'-2"				X	X					X	X	
6	37	SCRRA	1.27	Los Angeles	Santa Monica Fwy. 10	CPGN	N/A																
6	37	SCRRA	1.60	Los Angeles	Olympic Blvd.	CBSM	22'-9"	0'-7"	1'-11"	2'-11"	4'-8"				X	X					X	X	
<b>Segment #37 Total</b>			--	--	<b>9</b>		--					<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>5</b>
6	30	UP	4.70	Los Angeles	Long Beach Fwy. 710	SN	> 24'-0"									X					X	X	
<b>Segment #30 Total</b>			--	--	<b>1</b>		--					<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>
6	31	UP	8.90	Los Angeles	Bluff Road	CBSM	> 24'-0"										X				X	X	
6	31	UP	10.80	Los Angeles	San Gabriel River	SN	21'-2"	2'-2"	3'-6"	4'-6"	6'-3"			X	X					X	X		
6	31	UP	11.10	Los Angeles	Beverly Blvd.	SN	> 24'-0"										X				X	X	
<b>Segment #31 Total</b>			--	--	<b>3</b>		--					<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>
6	32	UP	11.65	Los Angeles	San Gabriel River Fwy. 605	CPGN	> 24'-0"										X				X	X	
6	32	UP	14.30	Los Angeles	Pomona Fwy. 60	CPSM	> 24'-0"										X				X	X	
<b>Segment #32 Total</b>			--	--	<b>2</b>		--					<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>





Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
6	33	UP	17.91	Los Angeles	Hacienda Blvd	CPGN	>24'-0"									X
6	33	UP	23.96	Los Angeles	Grand Ave	CPGN	23'-11"	0'-6"	2'-3"			X	X			
6	33	UP	25.50	Los Angeles	Temple Ave	CPGN	>24'-0"									X
6	33	UP	28.60	Los Angeles	Orange FWY 57	CBSM	>24'-0"									X
<b>Segment #33 Total</b>		-	-	-	4		-			0	0	0	1	1	3	
6	34	UP	29.60	Los Angeles	Humane Way	CBSM	>24'-0"									X
6	34	UP	30.00	San Bernardino	Valley Blvd SR 71	CBSM	22'-3"	2'-2"	3'-11"		X	X				
6	34	UP	35.50	San Bernard	Central Ave	CBSM	23'-9"	0'-8"	2'-5"			X	X			
6	34	UP	36.60	San Bernard	Mountain Ave	CBSM	22'-9"	1'-8"	3'-5"			X	X			
<b>Segment #34 Total</b>		-	-	-	4		-			0	0	1	3	2	1	
6	35	UP	43.90	Riverside	Mission Blvd FWY 15	CBSM	22'-4"	2'-1"	3'-10"					X	X	
6	35	UP	45.50	Riverside	Mira Loma FWY 60	CBSM	22'-10"	1'-7"	3'-4"					X	X	
6	35	UP	55.90	Riverside	Jurupa Ave.	CBSM	N/A									
<b>Segment #35 Total</b>		-	-	-	3		-			0	0	0	0	2	2	
6	71	SCRRA	-	Los Angeles	No Structures		-									
<b>Segment #71 Total</b>		-	-	-	0		-			0	0	0	0	0	0	















Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
7	17	ATSF	141.50	Los Angeles	4th St.	CBSM	N/A								
7	17	ATSF	141.10	Los Angeles	1st St.	CBSM	22'-4"	2'-1"	3'-10"					X	X
7	17	ATSF	140.70	Los Angeles	101 FWY	CBSM	24'-0"	0'-5"	2'-2"					X	X
7	17	ATSF	140.60	Los Angeles	Aliso Viaduct	CBSM	N/A								
7	17	ATSF	140.50	Los Angeles	Macy St.	CBSM	23'-6"	0'-11"	2'-8"					X	X
<b>Segment #17 Total</b>		-	-	-	9	-	-			0	0	0	0	4	4
7	1	SCRRA	-	Los Angeles	No Structures										
<b>Segment #1 Total</b>		-	-	-	0	-	-			0	0	0	0	0	0
<b>Segment #71 Total</b>					0					0	0	0	0	0	0
<b>Segment #27 Total</b>					13					0	0	1	4	5	4
<b>Segment #26 Total</b>					1					0	0	0	0	0	0
<b>Segment #20 Total</b>					2					0	0	0	0	0	0
<b>Segment #19 Total</b>					2					0	0	0	0	0	2
<b>Segment #18 Total</b>					1					0	0	1	1	0	0
<b>Segment #17 Total</b>					9					0	0	0	0	4	4
<b>Segment #1 Total</b>					0					0	0	0	0	0	0
<b>Route #7 Total</b>					28					0	0	2	5	9	10

## OVERHEAD CLEARANCE INVENTORY

Name of Route: Hemet – Riverside

Route #: 8

**Legend:** CBSM – Concrete Box/Slab (Monolithic)  
 CPGN – Concrete Precast Girder (Non-Attached)  
 CPGM – Concrete Precast Girder (Monolithic)  
 SN – Steel (Non-Attached)  
 N/A – Not Available  
 SCRRA – So. Cal. Reg. Rail Auth.  
 UP – Union Pacific RR  
 SP – Southern Pacific RR  
 ATSF – Santa Fe RR

**Segment #**

52  
69

**From / To**

Riverside – Highgrove  
Highgrove – Hemet

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
8	52	ATSF	8.70	Riverside	215 Fwy.	CPGN	23'-10"		0'-10"	1'-10"	3'-7"						X					X	X
<b>Segment #52 Total</b>		--	--	--	1	--	--					0	0	0	0	0	1	0	0	0	0	1	1
8	69	ATSF	6.38	Riverside	Box Spring Rd .	CPGN	23'-1"	0'-3"	1'-7"	2'-7"	4'-4"					X	X			X	X		
8	69	ATSF	6.40	Riverside	State 15	CPGN	22'-6"	0'-10"	2'-2"	3'-2"	4'-11"		X	X					X	X			
8	69	ATSF	6.42	Riverside	Box Springs OH ST 15	CPGN	23'-1"	0'-3"	1'-7"	2'-7"	4'-4"					X	X			X	X		
8	69	ATSF	8.90	Riverside	Cactus Ave	CPGN	23'-9"		0'-11"	1'-11"	3'-8"					X				X	X	X	
8	69	ATSF	10.60	Riverside	Van Buren Blvd.	CPGN	23'-0"	0'-4"	1'-8"	2'-8"	4'-5"					X	X			X	X		
8	69	ATSF	13.90	Riverside	Ramona Expwy.	CPGN	23'-2"	0'-2"	1'-6"	2'-6"	4'-3"					X	X			X	X		
8	69	ATSF	22.00	Riverside	Ethananc OH ST 15	CPGN	23'-0"	0'-4"	1'-8"	2'-8"	4'-5"					X	X			X	X		
<b>Segment #69 Total</b>		--	--	--	7	--	--					0	0	0	1	6	6	0	0	6	7	1	0

## OVERHEAD CLEARANCE INVENTORY

Name of Route: Hemet – Riverside

Route #: 8

Legend: CBSM – Concrete Box/Slab (Monolithic)  
 CPGN – Concrete Precast Girder (Non-Attached)  
 CPGM – Concrete Precast Girder (Monolithic)  
 SN – Steel (Non-Attached)  
 N/A – Not Available  
 SCRRA – So. Cal. Reg. Rail Auth.  
 UP – Union Pacific RR  
 SP – Southern Pacific RR  
 ATSF – Santa Fe RR

Segment #

52

69

From / To

Riverside – Highgrove

Highgrove – Hemet

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
8	52	ATSF	8.70	Riverside	215 FWY	CPGN	23'-10"	0'-7"	2'-4"						X	X
<b>Segment #52 Total</b>		--	--	--	1		--			0	0	0	0	1	1	
8	69	ATSF	6.38	Riverside	Box Spring Rd	CPGN	23'-0"	1'-5"	3'-2"					X	X	
8	69	ATSF	6.40	Riverside	State 15	CPGN	22'-6"	1'-11"	3'-8"					X	X	
8	69	ATSF	6.42	Riverside	Box Springs OH ST 15	CPGN	23'-1"	1'-4"	3'-1"					X	X	
8	69	ATSF	8.90	Riverside	Cactus Ave	CPGN	23'-9"	0'-8"	2'-5"					X	X	
8	69	ATSF	10.60	Riverside	Van Buren Blvd.	CPGN	23'-0"	1'-5"	3'-2"					X	X	
8	69	ATSF	13.90	Riverside	Ramona Expway	CPGN	23'-2"	1'-3"	3'-0"					X	X	
8	69	ATSF	22.00	Riverside	Ethananc OH ST 15	CPGN	23'-0"	1'-5"	3'-2"					X	X	
<b>Segment #69 Total</b>		--	--	--	7		--			0	0	0	7	7	0	







## OVERHEAD CLEARANCE INVENTORY

Name of Route: San Bernardino – Irvine  
Route #: 9

**Legend:** CBSM – Concrete Box/Slab (Monolithic)  
CPGN – Concrete Precast Girder (Non-Attached)  
CPGM – Concrete Precast Girder (Monolithic)  
SN – Steel (Non-Attached)  
N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

Segment #	From / To
48	Olive Jct. – Atwood
55	'B' Yard – San Bernardino
54	Colton – 'B' Yard
53	Highgrove – Colton
52	Riverside – Highgrove
71	Riverside – West Riverside
27	Atwood – West Riverside
22	Olive – Irvine

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION									
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track					
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv				
9	48	ATSF	--	Orange	No Structures														
<b>Segment #48 Total</b>		--	--	--	0	--	--			0	0	0	0	0	0	0	0	0	0
9	55	ATSF	--	San Bernardino	No Structures														
<b>Segment #55 Total</b>		--	--	--	0	--	--			0	0	0	0	0	0	0	0	0	0
9	54	ATSF	1.30	San Bernardino	Mill St.	CPGM	23'-1"	1'-4"	3'-1"				X	X					
9	54	ATSF	0.90	San Bernardino	B – Yard	SN	21'-0"	3'-5"	5'-2"			X	X						
9	54	ATSF	0.30	San Bernardino	Rialto Ave.	CPGM	N/A												
<b>Segment #54 Total</b>		--	--	--	3	--	--			0	0	1	2	1	0				

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION									
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track			
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv		
9	53	ATSF	5.40	San Bernardino	Barton Rd.	CPGN	23'-8"		1'-0"	2'-0"	3'-9"								X	X					
9	53	ATSF	3.20	San Bernardino	San Bernardino Fwy. 10	SN	23'-1"	0'-3"	1'-7"	2'-7"	4'-4"					X	X			X	X				
<b>Segment #53 Total</b>		-	-	-	2	-	-							0	0	0	0	1	2	0	0	0	1	2	1
9	52	ATSF	8.70	Riverside	I-215 Fwy.	CPGN	23'-10"		0'-10"	1'-10"	3'-7"								X				X	X	
<b>Segment #52 Total</b>		-	-	-	1	-	-							0	0	0	0	0	1	0	0	0	0	1	1
9	71	ATSF	-	Riverside	No Structures																				
<b>Segment #71 Total</b>		-	-	-	0	-	-							0	0	0	0	0	0	0	0	0	0	0	0
9	27	ATSF	35.90	Orange	Weir Canyon & Espza. Rds.	CBSM	23'-11"		0'-9"	1'-9"	3'-6"								X			X	X		
9	27	ATSF	35.80	Orange	Weir Canyon Rd.	CBSM	N/A																		
9	27	ATSF	33.60	Orange	Via Lomas De Yorba E.	CBSM	25'-11"				1'-6"													X	
9	27	ATSF	29.80	Riverside	Crestridge Dr.	CPGN	N/A																		
9	27	ATSF	29.54	Riverside	91 Fwy.	CBSM	N/A																		
9	27	ATSF	27.85	Riverside	91 Fwy.	CBSM	N/A																		
9	27	ATSF	25.60	Riverside	Lincoln Ave.	CBSM	23'-4"		1'-4"	2'-4"	4'-1"								X		X	X			
9	27	ATSF	24.10	Riverside	Main St.	CBSM	21'-9"	1'-7"	2'-11"	3'-11"	5'-8"			X	X				X	X					
9	27	ATSF	23.50	Riverside	91 Fwy. / 15 Fwy.	SN	24'-10"			0'-10"	2'-7"												X	X	
9	27	ATSF	23.40	Riverside	SE Connector	SBSM	N/A																		
9	27	ATSF	22.90	Riverside	91 Fwy.	CBSM	23'-1"	0'-3"	1'-7"	2'-7"	4'-4"					X	X					X	X		
9	27	ATSF	18.50	Riverside	La Sierra Ave.	CPGM	23'-6"		1'-2"	2'-2"	3'-11"								X	X		X	X		
9	27	ATSF	11.30	Riverside	Ivy St. at Chase Dr.	CPGN	24'-4"		0'-4"	1'-4"	3'-1"								X			X	X		
<b>Segment #27 Total</b>		-	-	-	13	-	-							0	0	0	1	2	5	0	1	3	4	4	3

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
9	53	ATSF	5.40	San Bernardino	Barton Rd.	CPGN	23'-8"	0'-9"	2'-6"				X	X	
9	53	ATSF	3.20	San Bernardino	I-10 FWY	SN	23'-1"	1'-4"	3'-1"					X	X
<b>Segment #53 Total</b>		--	--	--	2	--	--			0	0	0	1	2	1
9	52	ATSF	8.70	Riverside	215 FWY	CPGN	23'-10"	0'-7"	2'-4"					X	X
<b>Segment #52 Total</b>		--	--	--	1	--	--			0	0	0	0	1	1
9	71	ATSF	--	Riverside	No Structures										
<b>Segment #71 Total</b>		--	--	--	0	--	--			0	0	0	0	0	0
9	27	ATSF	35.90	Orange	Weir Canyon & Espza Rds	CBSM	23'-11"	0'-6"	2'-3"			X	X		
9	27	ATSF	35.80	Orange	Weir Canyon Rd.	CBSM	N/A								
9	27	ATSF	33.60	Orange	Via Lomas De Yorba E	CBSM	25'-11"		0'-3"						X
9	27	ATSF	29.80	Riverside	Crestridge Dr.	CPGN	N/A								
9	27	ATSF	29.54	Riverside	91 FWY	CBSM	N/A								
9	27	ATSF	27.85	Riverside	91 FWY	CBSM	N/A								
9	27	ATSF	25.60	Riverside	Lincoln Ave.	CBSM	23'-4"	1'-1"	2'-10"			X	X		
9	27	ATSF	24.10	Riverside	Main St.	CBSM	21'-9"	2'-8"	4'-5"		X	X			
9	27	ATSF	23.50	Riverside	91 FWY / 15 FWY	SN	24'-10"		1'-4"						X
9	27	ATSF	23.40	Riverside	SE Connector	CBSM	N/A								
9	27	ATSF	22.90	Riverside	91 FWY	CBSM	23'-1"	1'-4"	3'-1"				X	X	
9	27	ATSF	18.50	Riverside	La Sierra Ave.	CPGM	23'-6"	0'-11"	2'-8"			X	X		
9	27	ATSF	11.30	Riverside	Ivy St. at Chase Dr.	CPGN	24'-4"	0'-1"	1'-10"				X	X	
<b>Segment #27 Total</b>		--	--	--	13	--	--			0	0	1	4	5	4



Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
9	22	ATSF	173.40	Orange	Garden Grove FWY 22	CPGN	N/A								
9	22	ATSF	174.78	Orange	Santa Ana FWY 5	CPGN	N/A								
9	22	ATSF	177.39	Orange	Tustin ST FWY 55	SN	22'-10"	1'-7"	3'-4"					X	X
9	22	ATSF	178.70	Orange	Yale Ave. (bikeway)	N/A	N/A								
<b>Segment #22 Total</b>		-	-	-	3	-	-			0	0	0	0	1	1
<b>Segment #48 Total</b>					0					0	0	0	0	0	0
<b>Segment #55 Total</b>					0					0	0	0	0	0	0
<b>Segment #54 Total</b>					3					0	0	1	2	1	0
<b>Segment #53 Total</b>					2					0	0	0	1	2	1
<b>Segment #52 Total</b>					1					0	0	0	0	1	1
<b>Segment #71 Total</b>					0					0	0	0	0	0	0
<b>Segment #27 Total</b>					13					0	0	1	4	5	4
<b>Segment #22 Total</b>					4					0	0	0	0	1	1
<b>Route #9 Total</b>					22					0	0	2	7	10	7

## OVERHEAD CLEARANCE INVENTORY

Name of Route: Redlands Commuter  
Route #: 10

**Legend:** CBSM – Concrete Box/Slab (Monolithic)  
CPGN – Concrete Precast Girder (Non-Attached)  
CPGM – Concrete Precast Girder (Monolithic)  
SN – Steel (Non-Attached)  
N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

Segment #  
68

From / To  
San Bernardino – Redlands

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION								
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
10	68	ATSF	0.60	San Bernardino	State 15	SN	23'-8"		1'-0"	2'-0"	3'-9"							X	X					
10	68	ATSF	5.70	San Bernardino	W. Redlands St. 10	CBSM	23'-2"	0'-2"	1'-6"	2'-6"	4'-3"			X	X			X	X					
10	68	ATSF	9.50	San Bernardino	Redlands OH ST 10	CBSM	N/A																	
<b>Segment #68 Total</b>					<b>3</b>								<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>Segment #68 Total</b>					<b>3</b>								<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>Route #10 Total</b>					<b>3</b>								<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>



## OVERHEAD CLEARANCE INVENTORY

Name of Route: West Colton To Ports  
Route #: 11

**Legend:** CBSM – Concrete Box/Slab (Monolithic)  
CPGN – Concrete Precast Girder (Non-Attached)  
CPGM – Concrete Precast Girder (Monolithic)  
SN – Steel (Non-Attached)  
N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

<u>Segment #</u>	<u>From / To</u>
28	Ports – LA/LB "J" Yard
29	"J" Yard – Soto St.
37	Soto St. – East Jct.
38	East Jct. – Alhambra
39	Alhambra – El Monte
5	El Monte – Bassett
70	Bassett – City of Industry
40	City of Industry – Pomona
41	Pomona – Montclair
42	Montclair – West Colton
43	West Colton – Colton
44	Colton – Indio
45	Indio – Yuma

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION						RAILROAD RECOMMENDATION					
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
11	37	SCRRA	0.50	Los Angeles	Macy St.	CBSM	22'-7"	0'-9"	2'-1"	3'-1"	4'-10"			X	X			X	X				
11	37	SCRRA	0.39	Los Angeles	Aliso Viaduct	CBSM	26'-0"				1'-5"										X		
11	37	SCRRA	0.33	Los Angeles	FWY 101	CBSM	21'-11"	1'-5"	2'-9"	3'-9"	5'-6"			X	X					X	X		
11	37	SCRRA	0.00	Los Angeles	East 1st St.	CBSM	25'-3"			0'-5"	2'-2"									X	X		
11	37	SCRRA	0.40	Los Angeles	4th St.	CBSM	31'-3"																
11	37	SCRRA	0.60	Los Angeles	6th St.	CBSM	>30'-0"																
11	37	SCRRA	0.90	Los Angeles	7th St.	CBSM	22'-3"	1'-1"	2'-5"	3'-5"	5'-2"			X	X					X	X		
11	37	SCRRA	1.27	Los Angeles	Santa Monica Fwy. 10	CPGN	N/A																
11	37	SCRRA	1.60	Los Angeles	Olympic Blvd.	CBSM	22'-9"	0'-7"	1'-11"	2'-11"	4'-8"			X	X					X	X		
<b>Segment #37 Total</b>		---	---	---	<b>9</b>	---	---					<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>5</b>

## OVERHEAD CLEARANCE INVENTORY

Name of Route: West Colton To Ports  
Route #: 11

**Legend:** CBSM – Concrete Box/Slab (Monolithic)  
CPGN – Concrete Precast Girder (Non-Attached)  
CPGM – Concrete Precast Girder (Monolithic)  
SN – Steel (Non-Attached)  
N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

Segment #	From / To
28	Ports LA/LB – "J" Yard
29	"J" Yard – Soto St.
37	Soto St. – East Jct.
38	East Jct. – Alhambra
39	Alhambra – El Monte
5	El Monte – Bassett
70	Bassett – City of Industry
40	City of Industry – Pomona
41	Pomona – Montclair
42	Montclair – West Colton
43	West Colton – Colton
44	Colton – Indio
45	Indio – Yuma

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
11	37	SCRRA	0.50	Los Angeles	Macy St.	CBSM	22'-7"	1'-10"	3'-7"				X	X	
11	37	SCRRA	0.39	Los Angeles	Aliso Viaduct	CBSM	26'-0"		0'-2"						X
11	37	SCRRA	0.38	Los Angeles	FWY 101	CBSM	21'-11"	2'-6"	4'-3"					X	X
11	37	SCRRA	0.00	Los Angeles	East 1st St.	CBSM	25'-3"		0'-11"						X
11	37	SCRRA	0.40	Los Angeles	4th St.	CBSM	31'-3"								
11	37	SCRRA	0.60	Los Angeles	6th St.	CBSM	>30'-0"								
11	37	SCRRA	0.90	Los Angeles	7th St.	CBSM	22'-3"	2'-2"	3'-11"					X	X
11	37	SCRRA	1.27	Los Angeles	Santa Monica Fwy 10	CPGN	N/A								
11	37	SCRRA	1.60	Los Angeles	Olympic Blvd.	CBSM	22'-9"	1'-8"	3'-5"					X	X
<b>Segment #37 Total</b>		-	-	-	<b>9</b>		-			<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>5</b>





Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION					RAILROAD RECOMMENDATION						
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
11	70	SP	501.20	Los Angeles	Valley Blvd.	N/A	>24'-0"								X					X	X		
<b>Segment #70 Total</b>		--	--	--	1		--								1					1	1		
11	40	SP	502.40	Los Angeles	Azusa Ave.	SN	24'-3"		0'-5"	1'-5"	3'-2"				X					X	X		
11	40	SP	511.30	Los Angeles	Omar	N/A	23'-3"	0'-1"	1'-5"	2'-5"	4'-2"			X	X			X	X				
11	40	SP	512.10	Los Angeles	Humane Wy.	N/A	23'-3"	0'-1"	1'-5"	2'-5"	4'-2"			X	X			X	X				
11	40	SP	512.40	Los Angeles	State ST 71	N/A	25'-4"			0'-4"	2'-1"								X	X			
<b>Segment #40 Total</b>		--	--	--	4		--							2	3			0	0	2	4	2	0
11	41	SP	--	Los Angeles	No Structures																		
<b>Segment #41 Total</b>		--	--	--	0		--																
11	42	SP	534.70	San Bernardino	Cedar Ave.	CBSM	24'-9"			0'-11"	2'-8"									X	X		
11	42	SP	532.50	San Bernardino	Sierra Ave.	CPGN	24'-6"		0'-2"	1'-2"	2'-11"			X						X	X		
11	42	SP	531.40	San Bernardino	Citrus Ave.	CPGN	25'-10"				1'-7"											X	
11	42	SP	529.40	San Bernardino	Cherry Ave.	CPGN	24'-6"		0'-2"	1'-2"	2'-11"			X						X	X		
11	42	SP	527.40	San Bernardino	Etiwanda Ave.	CPGN	24'-2"		0'-6"	1'-6"	3'-3"			X						X	X		
11	42	SP	519.00	San Bernardino	Mountain Ave.	CBSM	22'-8"	0'-8"	2'-0"	3'-0"	4'-9"			X	X			X	X				
11	42	SP	517.90	San Bernardino	Central Ave.	CPGN	23'-10"		0'-10"	1'-10"	3'-7"			X						X	X		
<b>Segment #42 Total</b>		--	--	--	7		--							1	5			0	0	1	6	5	1

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
11	70	SP	501.20	Los Angeles	Valley Blvd.	N/A	>24'-0"									X
<b>Segment #70 Total</b>		-	-	-	1		-			0	0	0	0	0	0	1
11	40	SP	502.40	Los Angeles	Azusa Ave.	SN	24'-3"	0'-2"	1'-11"						X	X
11	40	SP	511.30	Los Angeles	Omar	N/A	23'-3"	1'-2"	2'-11"				X	X		
11	40	SP	512.10	Los Angeles	Humane Wy.	N/A	23'-3"	1'-2"	2'-11"				X	X		
11	40	SP	512.40	Los Angeles	State ST 71	N/A	25'-4"		0'-10"							X
<b>Segment #40 Total</b>		-	-	-	4		-			0	0	0	2	3	2	
11	41	SP	-	Los Angeles	No Structures											
<b>Segment #41 Total</b>		-	-	-	0		-			0	0	0	0	0	0	0
11	42	SP	534.70	San Bernard	Cedar Ave.	CBSM	24'-9"		1'-5"							X
11	42	SP	532.50	San Bernard	Sierra Ave.	CPGN	24'-6"		1'-8"							X
11	42	SP	531.40	San Bernard	Citrus Ave.	CPGN	25'-10"		0'-4"							X
11	42	SP	529.40	San Bernard	Cherry Ave.	CPGN	24'-6"		1'-8"							X
11	42	SP	527.40	San Bernard	Etiwanda Ave.	CPGN	24'-2"	0'-3"	2'-0"					X	X	
11	42	SP	519.00	San Bernard	Mountain Ave.	CBSM	22'-8"	1'-9"	3'-6"			X	X			
11	42	SP	517.90	San Bernard	Central Ave.	CPGN	23'-10"	0'-7"	2'-4"			X	X			
<b>Segment #42 Total</b>		-	-	-	7		-			0	0	0	2	3	5	

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION								
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
11	43	SP	536.20	San Bernardino	Riverside Ave.	CBSM	24'-2"		0'-6"	1'-6"	3'-3"					X				X	X			
11	43	SP	537.20	San Bernardino	Pepper Ave.	CPGN	26'-2"				1'-3"											X		
11	43	SP	538.20	San Bernardino	Rancho Ave.	CBSM	22'-4"	1'-0"	2'-4"	3'-4"	5'-1"			X	X			X	X					
<b>Segment #43 Total</b>		-	-	-	<b>3</b>		-						<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	
11	44	SP	539.70	San Bernardino	Mount Vernon Ave.	CPGN	24'-10"			0'-10"	2'-7"									X	X			
11	44	SP	540.46	San Bernardino	So. East Conn.	CBSM	>24'-0"									X					X	X		
11	44	SP	540.50	San Bernardino	Colton ST 15	N/A	>24'-0"									X					X	X		
11	44	SP	540.54	San Bernardino	Colton Loma Linda Yd.	N/A	>24'-0"									X					X	X		
11	44	SP	541.60	San Bernardino	Waterman Ave.	N/A	>24'-0"									X					X	X		
11	44	SP	542.50	San Bernardino	Anderson St.	N/A	>24'-0"									X					X	X		
11	44	SP	543.60	San Bernardino	Mountain View Ave.	N/A	>24'-0"									X					X	X		
11	44	SP	544.20	San Bernardino	Barton Rd.	CBSM	>24'-0"									X					X	X		
11	44	SP	561.30	Riverside	Beaumont ST 60	CBSM	23'-2"	0'-2"	1'-6"	2'-6"	4'-3"				X	X			X	X				
11	44	SP	580.54	Riverside	Palm Sping ST 111	N/A	>24'-0"									X					X	X		
11	44	SP	588.30	Riverside	Indian Ave.	N/A	23'-0"	0'-4"	1'-8"	2'-8"	4'-5"				X	X			X	X				
11	44	SP	591.00	Riverside	Palm Dr.	N/A	>24'-0"									X					X	X		
11	44	SP	594.60	Riverside	Date Palm Dr.	N/A	>24'-0"									X					X	X		
11	44	SP	598.10	Riverside	Ramon Rd.	N/A	>24'-0"									X					X	X		
11	44	SP	605.30	Riverside	Washington St.	N/A	>24'-0"									X					X	X		
11	44	SP	607.60	Riverside	Indio ST 10	N/A	>24'-0"									X					X	X		
11	44	SP	609.70	Riverside	Monroe St.	N/A	>24'-0"									X					X	X		
11	44	SP	610.90	Riverside	Jackson St. SR 10	N/A	>24'-0"									X					X	X		
<b>Segment #44 Total</b>		-	-	-	<b>18</b>		-						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>16</b>	<b>15</b>

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
11	43	SP	536.20	San Bernard	Riverside Ave.	CBSM	24'-2"	0'-3"	2'-0"					X	X
11	43	SP	537.20	San Bernard	Pepper Ave.	CPGN	26'-2"								
11	43	SP	538.20	San Bernard	Rancho Ave.	CBSM	22'-4"	2'-1"	3'-10"			X	X		
<b>Segment #43 Total</b>		-	-	-	3		-			0	0	1	1	1	1
11	44	SP	539.70	San Bernard	Mount Vernon Ave.	CPGN	24'-10"		1'-4"						X
11	44	SP	540.46	San Bernard	So. East Conn.	CBSM	>24'-0"								X
11	44	SP	540.50	San Bernard	Colton ST 15	N/A	>24'-0"								X
11	44	SP	540.54	San Bernard	Colton Loma Linda Yd	N/A	>24'-0"								X
11	44	SP	541.60	San Bernard	Waterman Ave.	N/A	>24'-0"								X
11	44	SP	542.50	San Bernard	Anderson St.	N/A	>24'-0"								X
11	44	SP	543.60	San Bernard	Mountain View Ave.	N/A	>24'-0"								X
11	44	SP	544.20	San Bernard	Barton Rd.	CBSM	>24'-0"								X
11	44	SP	561.30	Riverside	Beaumont ST 60	CBSM	23'-2"	1'-3"	3'-0"			X	X		
11	44	SP	580.54	Riverside	Palm Sping ST 111	N/A	>24'-0"								X
11	44	SP	588.30	Riverside	Indian Ave.	N/A	23'-0"	1'-5"	3'-2"			X	X		
11	44	SP	591.00	Riverside	Palm Dr.	N/A	>24'-0"								X
11	44	SP	594.60	Riverside	Date Palm Dr.	N/A	>24'-0"								X
11	44	SP	598.10	Riverside	Ramon Rd.	N/A	>24'-0"								X
11	44	SP	605.30	Riverside	Washington St.	N/A	>24'-0"								X
11	44	SP	607.60	Riverside	Indio ST 10	N/A	>24'-0"								X
11	44	SP	609.70	Riverside	Monroe St.	N/A	>24'-0"								X
11	44	SP	610.90	Riverside	Jackson St. SR 10	N/A	>24'-0"								X
<b>Segment #44 Total</b>		-	-	-	18		-			0	0	0	2	2	16

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
11	45	SP	611.40	Riverside	South Indio	CBSM	>24'-0"												X	X			
11	45	SP	732.20	Imperial	Indian Res. Rd.	CBSM	22'-6"	0'-10"	2'-2"	3'-2"	4'-11"		X	X				X	X				
11	45	SP	732.29	Imperial	Colorado River	SN	23'-3"	0'-1"	1'-5"	2'-5"	4'-2"		X	X				X	X				
<b>Segment #45 Total</b>		-	-	-	<b>3</b>		-					<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>Segment #37 Total</b>					<b>9</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>5</b>
<b>Segment #38 Total</b>					<b>6</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>6</b>
<b>Segment #39 Total</b>					<b>11</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>11</b>
<b>Segment #5 Total</b>					<b>2</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>
<b>Segment #70 Total</b>					<b>1</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>Segment #40 Total</b>					<b>4</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>0</b>
<b>Segment #41 Total</b>					<b>0</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Segment #42 Total</b>					<b>7</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>6</b>	<b>5</b>	<b>1</b>
<b>Segment #43 Total</b>					<b>3</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Segment #44 Total</b>					<b>18</b>							<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>16</b>	<b>15</b>
<b>Segment #45 Total</b>					<b>3</b>							<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>Route #11 Total</b>		-	-	-	<b>64</b>		-					<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>11</b>	<b>50</b>	<b>0</b>	<b>1</b>	<b>9</b>	<b>17</b>	<b>49</b>	<b>43</b>

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
11	45	SP	611.40	Riverside	South Indio	CBSM	>24'-0"									X
11	45	SP	732.20	Imperial	Indian Res. Rd.	CBSM	22'-6"	1'-11"	3'-8"				X	X		
11	45	SP	732.90	Imperial	Colorado River	SN	23'-3"	1'-2"	2'-11"			X	X			
<b>Segment #45 Total</b>		-	-	-	3		-			0	0	1	2	1	1	
<b>Segment #37 Total</b>					9					0	0	0	1	4	5	
<b>Segment #38 Total</b>					6					0	0	0	0	0	6	
<b>Segment #39 Total</b>					11					0	0	0	0	0	11	
<b>Segment #5 Total</b>					2					0	0	0	0	0	2	
<b>Segment #70 Total</b>					1					0	0	0	0	0	1	
<b>Segment #40 Total</b>					4					0	0	0	2	3	2	
<b>Segment #41 Total</b>					0					0	0	0	0	0	0	
<b>Segment #42 Total</b>					7					0	0	0	2	3	5	
<b>Segment #43 Total</b>					3					0	0	1	1	1	1	
<b>Segment #44 Total</b>					18					0	0	0	2	2	16	
<b>Segment #45 Total</b>					3					0	0	1	2	1	1	
<b>Route #11 Total</b>		-	-	-	64		-			0	0	2	10	14	50	



## OVERHEAD CLEARANCE INVENTORY

Name of Route: Barstow To Ports  
Route #: 12

Legend: CBSM – Concrete Box/Slab (Monolithic)  
CPGN – Concrete Precast Girder (Non-Attached)  
CPGM – Concrete Precast Girder (Monolithic)  
SN – Steel (Non-Attached)  
N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

Segment #	From / To
28	Ports LA/LB – 'J' Yard
36	'J' Yard – Redondo
18	Redondo – Hobart
19	Hobart – DT Junction
20	DT Junction – Fullerton
26	Fullerton – Atwood
27	Atwood – West Riverside
71	Riverside – West Riverside
52	Riverside – Highgrove
53	Highgrove – Colton
54	Colton – 'B' Yard
55	'B' Yard – San Bernardino
56	San Bernardino – Keenbrook
57	Keenbrook – Summit
58	Summit – Victorville
59	Victorville – Barstow

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION								
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track				
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv			
12	36	SP	–	Los Angeles	No Structures													
<b>Segment #36 Total</b>		–	–	–	0	–	–			0	0	0	0	0	0			
12	18	ATSF	143.50	Los Angeles	North Bridge	N/A	22'-0"	2'-5"	4'-2"			X	X					
<b>Segment #18 Total</b>		–	–	–	1	–	–			0	0	1	1	0	0			

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION					RAILROAD RECOMMENDATION						
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
12	19	ATSF	146.40	Los Angeles	Long Beach Fwy. 710	SN	24'-6"		0'-2"	1'-2"	2'-11"										X	X	
12	19	ATSF	151.90	Los Angeles	Slauson Ave.	SN	24'-6"		0'-2"	1'-2"	2'-11"										X	X	
<b>Segment #19 Total</b>		-	-	-	2	-	-					0	0	0	0	0	2	0	0	0	0	2	2
12	20	ATSF	152.20	Los Angeles	San Gabriel River Fwy. 605	CBSM	N/A																
12	20	ATSF	159.60	Los Angeles	Alondra Blvd.	CBSM	N/A																
<b>Segment #20 Total</b>		-	-	-	2	-	-					0	0	0	0	0	0	0	0	0	0	0	0
12	26	ATSF	43.40	Orange	Orange Fwy. 57	CPGM	N/A																
<b>Segment #26 Total</b>		-	-	-	1	-	-					0	0	0	0	0	0	0	0	0	0	0	0
12	27	ATSF	35.90	Orange	Weir Canyon & Espza Rds.	CBSM	23'-11"		0'-9"	1'-9"	3'-6"											X	X
12	27	ATSF	35.80	Orange	Weir Canyon Rd.	CBSM	N/A																
12	27	ATSF	33.60	Orange	Via Lomas De Yorba E.	CBSM	25'-11"				1'-6"												X
12	27	ATSF	29.80	Riverside	Crestridge Dr.	CPGN	N/A																
12	27	ATSF	29.54	Riverside	91 Fwy.	CBSM	N/A																
12	27	ATSF	27.85	Riverside	91 Fwy.	CBSM	N/A																
12	27	ATSF	25.60	Riverside	Lincoln Ave.	CBSM	23'-4"		1'-4"	2'-4"	4'-1"					X					X	X	
12	27	ATSF	24.10	Riverside	Main St.	CBSM	21'-9"	1'-7"	2'-11"	3'-11"	5'-8"			X	X			X	X				
12	27	ATSF	23.50	Riverside	91 Fwy. / 15 Fwy.	SN	24'-10"				0'-10"	2'-7"										X	X
12	27	ATSF	23.40	Riverside	SE Connector	SBSM	N/A																
12	27	ATSF	22.90	Riverside	91 Fwy.	CBSM	23'-1"	0'-3"	1'-7"	2'-7"	4'-4"			X	X						X	X	
12	27	ATSF	18.50	Riverside	La Sierra Ave.	CPGM	23'-6"		1'-2"	2'-2"	3'-11"					X					X	X	

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
12	19	ATSF	146.40	Los Angeles	Long Beach FWY 710	SN	24'-6"		1'-8"							X
12	19	ATSF	151.90	Los Angeles	Slauson Ave.	SN	24'-6"		1'-8"							X
<b>Segment #19 Total</b>		-	-	-	2	-	-			0	0	0	0	0	0	2
12	20	ATSF	152.20	Los Angeles	605 FWY	CBSM	N/A									
12	20	ATSF	159.60	Los Angeles	Alondra Blvd.	CBSM	N/A									
<b>Segment #20 Total</b>		-	-	-	2	-	-			0	0	0	0	0	0	0
12	26	ATSF	43.40	Orange	57 FWY	CPGM	N/A									
<b>Segment #26 Total</b>		-	-	-	1	-	-			0	0	0	0	0	0	0
12	27	ATSF	35.90	Orange	Weir Canyon & Espza Rds	CBSM	23'-11"	0'-6"	2'-3"				X	X		
12	27	ATSF	35.80	Orange	Weir Canyon Rd.	CBSM	N/A									
12	27	ATSF	33.60	Orange	Via Lomas De Yorba E	CBSM	25'-11"		0'-3"							X
12	27	ATSF	29.80	Riverside	Crestridge Dr.	CPGN	N/A									
12	27	ATSF	29.54	Riverside	91 FWY	CBSM	N/A									
12	27	ATSF	27.85	Riverside	91 FWY	CBSM	N/A									
12	27	ATSF	25.60	Riverside	Lincoln Ave.	CBSM	23'-4"	1'-1"	2'-10"				X	X		
12	27	ATSF	24.10	Riverside	Main St.	CBSM	21'-9"	2'-8"	4'-5"			X	X			
12	27	ATSF	23.50	Riverside	91 FWY / 15 FWY	SN	24'-10"		1'-4"							X
12	27	ATSF	23.40	Riverside	SE Connector	SBSM	N/A									
12	27	ATSF	22.90	Riverside	91 FWY	CBSM	23'-1"	1'-4"	3'-1"						X	X
12	27	ATSF	18.50	Riverside	La Sierra Ave.	CPGM	23'-6"	0'-11"	2'-8"			X	X			



Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
12	27	ATSF	11.30	Riverside	Ivy St. at Chase Dr.	CPGN	24'-4"	0'-1"	1'-10"					X	X
<b>Segment #27 Total</b>		-	-	-	13	-	-			0	0	1	4	5	4
12	71	ATSF	-	Riverside	No Structures										
<b>Segment #71 Total</b>		-	-	-	0	-	-			0	0	0	0	0	0
12	52	ATSF	8.70	Riverside	215 FWY	CPGN	23'-10"	0'-7"	2'-4"					X	X
<b>Segment #52 Total</b>		-	-	-	1	-	-			0	0	0	0	1	1
12	53	ATSF	5.40	San Bernardino	Barton Rd.	CPGN	23'-8"	0'-9"	2'-6"					X	X
12	53	ATSF	3.20	San Bernardino	I-10 FWY	SN	23'-1"	1'-4"	3'-1"					X	X
<b>Segment #53 Total</b>		-	-	-	2	-	-			0	0	0	1	2	1
12	54	ATSF	1.10	San Bernardino	Mill St.	CPGM	23'-1"	1'-4"	3'-1"					X	X
12	54	ATSF	0.90	San Bernardino	B - Yard	SN	21'-0"	3'-5"	5'-2"			X	X		
12	54	ATSF	0.30	San Bernardino	Rialto Ave.	CPGM	N/A								
<b>Segment #54 Total</b>		-	-	-	3	-	-			0	0	1	2	1	0
12	55	ATSF		San Bernardino	No Structures										
<b>Segment #55 Total</b>		-	-	-	0	-	-			0	0	0	0	0	0



Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
12	56	ATSF	70.40	San Bernardino	15 FWY	CBSM	N/A									
12	56	ATSF	78.00	San Bernardino	Cajon Blvd.	CBSM	24'-9"		1'-5"							X
12	56	ATSF	78.30	San Bernardino	27th St.	SN	24'-5"		1'-9"							X
12	56	ATSF	78.60	San Bernardino	Highland Ave.(SR 30)	SN	24'-7"		1'-7"							X
12	56	ATSF	79.00	San Bernardino	Massachusetts/FWY 15	CBSM	24'-5"		1'-9"							X
12	56	ATSF	79.40	San Bernardino	16th St. at FWY 15	CBSM	24'-6"		1'-8"							X
12	56	ATSF	79.90	San Bernardino	Baseline St.	CBSM	24'-5"		1'-9"							X
12	56	ATSF	80.20	San Bernardino	9th St.	CBSM	24'-0"	0'-5"	2'-2"				X	X		
12	56	ATSF	80.75	San Bernardino	5th St. (SR 66)	SN	23'-11"	0'-6"	2'-3"				X	X		
12	56	ATSF	81.50	San Bernardino	Mt. Vernon Ave.	N/A	22'-6"	1'-11"	3'-8"				X	X		
<b>Segment #56 Totals</b>		-	-	-	10	-	-			0	0	0	3	3	6	
12	57	ATSF	61.70	San Bernardino	Pine Lodge West	CBSM	24'-9"		1'-5"							X
12	57	ATSF	60.90	San Bernardino	Pine Lodge East	CBSM	24'-3"	0'-2"	1'-11"					X	X	
12	57	ATSF	60.10	San Bernardino	Gish at FWY 15	CBSM	22'-5"	2'-0"	3'-9"					X	X	
12	57	ATSF	59.90	San Bernardino	Alray at FWY 15	CBSM	22'-7"	1'-10"	3'-7"					X	X	
12	57	ATSF	59.18	San Bernardino	Tunnel #2	CONC.	23'-8"	0'-9"	2'-6"				X	X		
12	57	ATSF	58.86	San Bernardino	Tunnel #1	CBSM	23'-8"	0'-9"	2'-6"				X	X		
<b>Segment #57 Totals</b>		-	-	-	6	-	-			0	0	0	2	5	4	
12	58	ATSF	45.30	San Bernardino	Main Street	CPGN	22'-9"	1'-8"	3'-5"				X	X		
12	58	ATSF	41.60	San Bernardino	Bear Valley Cutoff	CPGN	22'-9"	1'-8"	3'-5"				X	X		
12	58	ATSF	39.10	San Bernardino	R.R. Overpass	N/A	24'-2"	0'-3"	2'-0"				X	X		
12	53	ATSF	37.10	San Bernardino	Bear Valley St.	SN	24'-5"		1'-9"							X
<b>Segment #58 Totals</b>		-	-	-	4	-	-			0	0	0	3	3	1	

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION						RAILROAD RECOMMENDATION						
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
12	59	ATSF	36.00	San Bernardino	Devore Fwy. 15	SN	23'-11"		0'-9"	1'-9"	3'-6"					X					X	X		
12	59	ATSF	34.10	San Bernardino	Mojave River	SN	21'-11"	1'-5"	2'-9"	3'-9"	5'-6"			X	X					X	X			
12	59	ATSF	746.50	San Bernardino	First St.	N/A	22'-11"	0'-5"	1'-9"	2'-9"	4'-6"					X	X			X	X			
Segment #59 Totals		-	-	-	3		-						0	0	1	1	1	2	0	0	2	2	1	1
Segment #36 Total					0								0	0	0	0	0	0	0	0	0	0	0	0
Segment #18 Total					1								0	0	0	1	1	0	0	1	1	0	0	0
Segment #19 Total					2								0	0	0	0	0	2	0	0	0	0	2	2
Segment #20 Total					2								0	0	0	0	0	0	0	0	0	0	0	0
Segment #26 Total					1								0	0	0	0	0	0	0	0	0	0	0	0
Segment #27 Total					13								0	0	0	1	2	5	0	1	3	4	4	3
Segment #71 Total					0								0	0	0	0	0	0	0	0	0	0	0	0
Segment #52 Total					1								0	0	0	0	0	1	0	0	0	0	1	1
Segment #53 Total					2								0	0	0	0	1	2	0	0	0	1	2	1
Segment #54 Total					3								0	0	0	0	2	2	0	0	2	2	0	0
Segment #55 Total					0								0	0	0	0	0	0	0	0	0	0	0	0
Segment #56 Totals					10								0	0	0	0	0	9	0	0	0	7	9	2
Segment #57 Totals					6								0	0	0	0	2	5	0	0	0	2	6	4
Segment #58 Totals					4								0	0	0	0	2	4	0	0	3	4	1	0
Segment #59 Totals					3								0	0	1	1	1	2	0	0	2	2	1	1
Route #12 Total		-	-	-	48		-						0	0	1	3	11	32	0	2	11	22	26	14

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
12	59	ATSF	36.00	San Bernardino	FWY I-15	SN	23'-11"	0'-6"	2'-3"					X	X
12	59	ATSF	34.10	San Bernardino	Mojave River	SN	21'-11"	2'-6"	4'-3"			X	X		
12	59	ATSF	746.50	San Bernardino	First St.	N/A	22'-11"	1'-6"	3'-3"				X	X	
<b>Segment #59 Totals</b>		-	-	-	3		-			0	0	1	2	2	1
<b>Segment #36 Total</b>					0					0	0	0	0	0	0
<b>Segment #18 Total</b>					1					0	0	1	1	0	0
<b>Segment #19 Total</b>					2					0	0	0	0	0	2
<b>Segment #20 Total</b>					2					0	0	0	0	0	0
<b>Segment #26 Total</b>					1					0	0	0	0	0	0
<b>Segment #27 Total</b>					13					0	0	1	4	5	4
<b>Segment #71 Total</b>					0					0	0	0	0	0	0
<b>Segment #52 Total</b>					1					0	0	0	0	1	1
<b>Segment #53 Total</b>					2					0	0	0	1	2	1
<b>Segment #54 Total</b>					3					0	0	1	2	1	0
<b>Segment #55 Total</b>					0					0	0	0	0	0	0
<b>Segment #56 Totals</b>					10					0	0	0	3	3	6
<b>Segment #57 Totals</b>					6					0	0	0	2	5	4
<b>Segment #58 Totals</b>					4					0	0	0	3	3	1
<b>Segment #59 Totals</b>					3					0	0	1	2	2	1
<b>Route #12 Total</b>		-	-	-	48		-			0	0	4	18	22	20





Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
13	31	UP	8.90	Los Angeles	Bluff Road	CBSM	> 24'-0"													X	X		
13	31	UP	10.80	Los Angeles	San Gabriel River	SN	21'-2"	2'-2"	3'-6"	4'-6"	6'-3"			X	X					X	X		
13	31	UP	11.10	Los Angeles	Beverly Blvd.	SN	> 24'-0"													X	X		
<b>Segment #31 Total</b>		--	--	--	<b>3</b>		--					0	0	1	1	0	2	0	0	1	1	2	2
13	32	UP	11.65	Los Angeles	San Gabriel River Fwy. 605	N/A	> 24'-0"														X	X	
13	32	UP	14.30	Los Angeles	Pomona Fwy. 60	N/A	> 24'-0"														X	X	
<b>Segment #32 Total</b>		--	--	--	<b>2</b>		--					0	0	0	0	0	2	0	0	0	0	2	2
13	33	UP	17.91	Los Angeles	Hacienda Blvd.	CPGN	>24'-0"														X	X	
13	33	UP	23.95	Los Angeles	Grand Ave.	CPGN	23'-11"		0'-9"	1'-9"	3'-6"										X	X	
13	33	UP	25.50	Los Angeles	Temple Ave.	CPGN	>24'-0"														X	X	
13	33	UP	28.60	Los Angeles	Orange Fwy. 57	CBSM	>24'-0"														X	X	
<b>Segment #33 Total</b>		--	--	--	<b>4</b>		--					0	0	0	0	0	4	0	0	0	1	4	3
13	34	UP	29.60	Los Angeles	Humane Way	CBSM	>24'-0"														X	X	
13	34	UP	30.00	San Bernardino	Valley Blvd. SR 71	CBSM	22'-3"	1'-1"	2'-5"	3'-5"	5'-2"			X	X			X	X				
13	34	UP	35.50	San Bernard	Central Ave.	CPGN	23'-9"		0'-11"	1'-11"	3'-8"										X	X	
13	34	UP	36.60	San Bernard	Mountain Ave.	CBSM	22'-9"	0'-7"	1'-11"	2'-11"	4'-8"			X	X					X	X		
<b>Segment #34 Total</b>		--	--	--	<b>4</b>		--					0	0	0	1	2	3	0	1	2	2	2	1

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION						
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track		
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	
13	31	UP	8.90	Los Angeles	Bluff Road	CBSM	> 24'-0"									X
13	31	UP	10.80	Los Angeles	San Gabriel River	SN	21'-2"	3'-3"	5'-0"			X	X			
13	31	UP	11.10	Los Angeles	Beverly Blvd.	SN	> 24'-0"									X
<b>Segment #31 Total</b>		-	-	-	3		-			0	0	1	1	0	2	
13	32	UP	11.65	Los Angeles	San Gabriel Fwy. 605	N/A	> 24'-0"									X
13	32	UP	14.30	Los Angeles	Pomona Fwy. 60	N/A	> 24'-0"									X
<b>Segment #32 Total</b>		-	-	-	2		-			0	0	0	0	0	2	
13	33	UP	17.91	Los Angeles	Hacienda Blvd	CPGN	>24'-0"									X
13	33	UP	23.96	Los Angeles	Grand Ave.	CPGN	23'-11"	0'-6"	2'-3"			X	X			
13	33	UP	25.50	Los Angeles	Temple Ave.	CPGN	>24'-0"									X
13	33	UP	28.60	Los Angeles	Orange FWY 57	CBSM	>24'-0"									X
<b>Segment #33 Total</b>		-	-	-	4		-			0	0	0	1	1	3	
13	34	UP	29.60	Los Angeles	Humane Way	CBSM	>24'-0"									X
13	34	UP	30.00	San Bernardino	Valley Blvd. SR 71	CBSM	22'-3"	2'-2"	3'-11"			X	X			
13	34	UP	35.50	San Bernard	Central Ave.	CPGN	23'-9"	0'-8"	2'-5"			X	X			
13	34	UP	36.60	San Bernard	Mountain Ave.	CBSM	22'-9"	1'-8"	3'-5"			X	X			
<b>Segment #34 Total</b>		-	-	-	4		-			0	0	1	3	2	1	

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT				MINIMUM RECOMMENDATION				RAILROAD RECOMMENDATION							
								Minimum Requirement		Railroad Requirement		Replace Structure		Raise Structure		Lower Track		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
13	35	UP	43.9	Riverside	Mission Blvd. Fwy. 15	CBSM	22'-4"	1'-0"	2'-4"	3'-4"	5'-1"					X	X					X	X
13	35	UP	45.5	Riverside	Mira Loma Fwy. 60	CBSM	22'-10"	0'-6"	1'-10"	2'-10"	4'-7"					X	X					X	X
13	35	UP	55.9	Riverside	Jurupa Ave.	CBSM	N/A																
<b>Segment #35 Total</b>		--	--	--	3	--	--					0	0	0	0	2	2	0	0	0	0	2	2
13	71	ATSF	--	Riverside	No Structures																		
<b>Segment #71 Total</b>		--	--	--	0	--	--					0	0	0	0	0	0	0	0	0	0	0	0
13	52	ATSF	8.70	Riverside	215 Fwy.	CPGN	23'-10"		0'-10"	1'-10"	3'-7"					X						X	X
<b>Segment #52 Total</b>		--	--	--	1	--	--					0	0	0	0	0	1	0	0	0	0	1	1
13	53	ATSF	5.40	San Bernardino	Barton Rd.	CPGN	23'-8"		1'-0"	2'-0"	3'-9"					X					X	X	
13	53	ATSF	3.20	San Bernardino	San Bernardino Fwy. 10	CPGN	23'-1"	0'-3"	1'-7"	2'-7"	4'-4"					X	X					X	X
<b>Segment #53 Total</b>		--	--	--	2	--	--					0	0	0	0	1	2	0	0	0	1	2	1
13	54	ATSF	1.30	San Bernardino	Mill St.	N/A	23'-1"	0'-3"	1'-7"	2'-7"	4'-4"					X	X				X	X	
13	54	ATSF	0.90	San Bernardino	B - Yard	SN	23'-1"	0'-3"	1'-7"	2'-7"	4'-4"					X	X				X	X	
13	54	ATSF	0.30	San Bernardino	Rialto Ave.	SN	N/A																
<b>Segment #54 Total</b>		--	--	--	3	--	--					0	0	0	0	2	2	0	0	2	2	0	0

Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION					
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track	
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv
13	35	UP	43.90	Riverside	Mission Blvd. FWY 15	CBSM	22'-4"	2'-1"	3'-10"					X	X
13	35	UP	45.50	Riverside	Mira Loma FWY 60	CBSM	22'-10"	1'-7"	3'-4"					X	X
13	35	UP	55.90	Riverside	Jurupa Ave.	CBSM	N/A								
<b>Segment #35 Total</b>		-	-	-	3	-	-			0	0	0	0	2	2
13	71	ATSF	-	Riverside	No Structures										
<b>Segment #71 Total</b>		-	-	-	0	-	-			0	0	0	0	0	0
13	52	ATSF	8.70	Riverside	215 FWY	CPGN	23'-10"	0'-7"	2'-4"					X	X
<b>Segment #52 Total</b>		-	-	-	1	-	-			0	0	0	0	1	1
13	53	ATSF	5.40	San Bernardino	Barton Rd.	CPGN	23'-8"	0'-9"	2'-6"				X	X	
13	53	ATSF	3.20	San Bernardino	I-10 FWY	CPGN	23'-1"	1'-4"	3'-1"					X	X
<b>Segment #53 Total</b>		-	-	-	2	-	-			0	0	0	1	2	1
13	54	ATSF	1.30	San Bernardino	Mill St.	N/A	23'-1"	1'-4"	3'-1"				X	X	
13	54	ATSF	0.90	San Bernardino	B - Yard	SN	21'-0"	3'-5"	5'-2"		X	X			
13	54	ATSF	0.30	San Bernardino	Rialto Ave.	SN	N/A								
<b>Segment #54 Total</b>		-	-	-	3	-	-			0	0	1	2	1	0



Route #	Segment #	Owner	Milepost	County	Description	Type	Vertical Clearance	VERTICAL IMPACT		DESIRABLE RECOMMENDATION							
								Desirable Requirement		Replace Structure		Raise Structure		Lower Track			
								25Kv	50Kv	25Kv	50Kv	25Kv	50Kv	25Kv	50Kv		
13	55	ATSF		San Bernardino	No Structures												
<b>Segment #55 Total</b>										<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
13	6	ATSF	70.40	San Bernardino	15 FWY	CBSM	N/A										
13	6	ATSF	78.00	San Bernardino	Cajon Blvd.	CBSM	24'-9"										X
13	6	ATSF	78.30	San Bernardino	27th St.	SN	24'-5"										X
13	6	ATSF	78.60	San Bernardino	Highland Ave. (SR 30)	SN	24'-7"										X
13	6	ATSF	79.00	San Bernardino	Massachusetts FWY 15	CBSM	24'-5"										X
13	6	ATSF	79.40	San Bernardino	16th St. at FWY 15	CBSM	24'-6"										X
13	6	ATSF	79.90	San Bernardino	Baseline St.	CBSM	24'-5"										X
13	6	ATSF	80.20	San Bernardino	9th St.	CBSM	24'-0"	0'-5"	2'-2"				X	X			
13	6	ATSF	80.75	San Bernardino	5th St. (SR 66)	SN	23'-11"	0'-6"	2'-3"				X	X			
13	6	ATSF	81.50	San Bernardino	Mt. Vernon Ave.	N/A	22'-6"	1'-11"	3'-8"				X	X			
<b>Segment #56 Total</b>										<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>6</b>		
13	57	ATSF	61.70	San Bernardino	Pine Lodge West	CBSM	24'-9"		1'-5"								X
13	57	ATSF	60.90	San Bernardino	Pine Lodge East	CBSM	24'-3"	0'-2"	1'-11"					X	X		
13	57	ATSF	60.10	San Bernardino	Gish at FWY 15	CBSM	22'-5"	2'-0"	3'-9"					X	X		
13	57	ATSF	59.90	San Bernardino	Alray at FWY 15	CBSM	22'-7"	1'-10"	3'-7"					X	X		
13	57	ATSF	59.18	San Bernardino	Tunnel #2	CONC.	23'-8"	0'-9"	2'-6"				X	X			
13	57	ATSF	58.86	San Bernardino	Tunnel #1	CBSM	23'-8"	0'-9"	2'-6"				X	X			
<b>Segment #57 Total</b>										<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>4</b>		









**APPENDIX 5-3**

## GRADE CROSSING INVENTORY

Name of Route: UP/SP Corridor  
Route # : 1

**Legend:**

N/A – Not Available  
SCRRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

Segment #

From/To

28	Ports LA/LB – J-Yard
29	J-Yard – Soto Street
30	Soto Street – East Yard
31	East Yard – Bartolo
32	Bartolo – Puente Jct.
33	Puente Junction – Spadra
49	City of Industry – Puente Jct.
40	City of Industry – Pomona
50	Pomona – Spadra
34	Spadra – Montclair
41	Pomona – S. Montclair
45	Indio – Yuma
46	East Yard – Hobart
51	S. Montclair – Montclair
42	S. Montclair – West Colton
62	West Colton – North Bridge
63	North Bridge – Dike
66	Dike – Keenbrook
57	Keenbrook – Summit
58	Summit – Victorville
59	Victorville – Barstow
60	Barstow – Daggett
61	Daggett – Yermo Yard
43	West Colton – Colton
44	Colton – Indio

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
1	30	UP	--	Los Angeles	No Crossings					
<b>Segment # 30 Total</b>		--	--	--	0	--	--	--		
1	31	UP	7.80	Los Angeles	S. Vail Ave	2	2	7633		X
1	31	UP	8.00	Los Angeles	S. Maple Ave	2	2	3500		X
1	31	UP	8.30	Los Angeles	S. Greenwood Ave	2	2	8809		X
1	31	UP	8.50	Los Angeles	Montebello Blvd	4	2	3100		X
1	31	UP	10.30	Los Angeles	Durfee Ave	2	2	9600		X
<b>Segment # 31 Total</b>		--	--	--	5	--	--	--		5
1	32	UP	12.30	Los Angeles	Rosehill Rd	2	2	5758		X
1	32	UP	12.40	Los Angeles	Mission Mill Rd	2	2	1533		X
1	32	UP	13.90	Los Angeles	Workmen Mill Rd.	2	2	14700		X
1	32	UP	16.40	Los Angeles	7th Ave.	2	2	2903		X
1	32	UP	17.20	Los Angeles	Turnbull Canyon Rd.	2	2	10400		X
<b>Segment #32 Total</b>		--	--	--	5	--	--	--		5
1	33	UP	18.30	Los Angeles	Stinson Ave	2	2	7,400		X
1	33	UP	19.10	Los Angeles	Bixby Dr.	2	3	N/A		X
1	33	UP	21.40	Los Angeles	Fullerton Rd.	4	1	N/A		X
1	33	UP	22.40	Los Angeles	Nogales Ave	2	1	37,500		X
1	33	UP	23.40	Los Angeles	Fairway Dr.	2	1	302		X
1	33	UP	24.40	Los Angeles	Lemon St	2	2	799		X
1	33	UP	24.90	Los Angeles	Brea Canyon Rd.	2	2	16,688		X
<b>Segment #33 Total</b>		--	--	--	7	--	--	--		7



Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
1	41	SP	514.70	Los Angeles	Palomares Ave.	N/A	2	5,960		X
1	41	SP	515.20	Los Angeles	San Antonio Ave.	N/A	2	6,798		X
1	41	SP	515.40	Los Angeles	Reservoir Ave.	N/A	1	6,439		X
1	41	SP	515.90	Los Angeles	East End Ave.	N/A	1	6,950		X
1	41	SP	516.90	Los Angeles	Ramona Ave.	N/A	1	8,100		X
1	41	SP	517.40	San Bernardino	Monte Vista Ave.	N/A	2	5,200		X
<b>Segment #41 Total</b>		—	—	—	<b>6</b>	—	—	—		<b>6</b>
1	45	SP	613.00	Riverside	Dillon Rd.	N/A	2	5,800		
1	45	SP	614.20	Riverside	50th Ave.	N/A	2	1,137		
1	45	SP	614.60	Riverside	5th St.	N/A	2	205		
1	45	SP	615.50	Riverside	52nd Ave.	N/A	2	990		
1	45	SP	616.60	Riverside	54th Ave.	N/A	2	N/A		
1	45	SP	617.90	Riverside	Airport Blvd.	N/A	2	4,590		
1	45	SP	619.20	Riverside	58th Ave.	N/A	1	630		
1	45	SP	621.60	Riverside	62nd Ave.	N/A	1	490		
1	45	SP	623.90	Riverside	66th Ave.	N/A	1	3,130		
1	45	SP	626.90	Riverside	Hammond Rd.	N/A	1	320		
1	45	SP	630.90	Riverside	Cleveland St.	N/A	1	60		
1	45	SP	632.80	Riverside	Bay Dr.	N/A	1	550		
1	45	SP	634.70	Riverside	Parkside Dr.	N/A	1	270		
1	45	SP	652.9	Imperial	Hot Mineral Spa Rd	N/A	1	150		
1	45	SP	656.2	Imperial	Frink Rd	N/A	1	100		
1	45	SP	665.3	Imperial	English Rd	N/A	1	300		
1	45	SP	667.8	Imperial	Beal Rd – Niland	N/A	2	1000		
1	45	SP	671.3	Imperial	Flowing Wells Rd	N/A	1	100		
1	45	SP	683.3	Imperial	Flowing Well RD	N/A	1	100		
1	45	SP	698.2	Imperial	Ben Hulse HWY SR 78	N/A	1	1200		
1	45	SP	716.6	Imperial	Ogilby Rd	N/A	1	200		
1	45	SP	723.4	Imperial	Sidewinder Rd	N/A	1	200		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
1	45	SP	730.8	Imperial	First Ave	N/A	2	400		
<b>Segment #45 Total</b>		--	--	--	23	--	--	--		
1	46	UP	--	Los Angeles	No Crossings					
<b>Segment #46 Total</b>		--	--	--	0	--	--	--		
1	51	UP/SP	--	San Bernardino	No Crossings					
<b>Segment #51 Total</b>		--	--	--	0	--	--	--		
1	42	SP	519.60	San Bernardino	San Antonio Ave.	N/A	1	4,300		X
1	42	SP	519.80	San Bernardino	Vine Ave.	N/A	2	4,600		X
1	42	SP	520.10	San Bernardino	Euclid Ave.	N/A	2	22,000		X
1	42	SP	520.40	San Bernardino	Sultana Ave.	N/A	2	3,500		X
1	42	SP	520.70	San Bernardino	Campus Ave.	N/A	2	5,300		X
1	42	SP	520.90	San Bernardino	Bon View Ave.	N/A	1	7,100		X
1	42	SP	522.40	San Bernardino	Vineyard Ave.	N/A	1	9,000		X
1	42	SP	523.40	San Bernardino	Archibald Ave.	N/A	1	3,400		X
1	42	SP	523.90	San Bernardino	Turner Ave.	N/A	2	800		X
1	42	SP	525.40	San Bernardino	Milliken Ave.	N/A	1	10,400		X
<b>Segment #42 Total</b>		--	--	--	10	--	--	--		10
1	62	SP	--	San Bernardino	No Crossings					
<b>Segment #62 Total</b>		--	--	--	0	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
1	63	SP	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #63 Total</b>		--	--	--	<b>0</b>	--	--	--		
1	66	SP/ATSF	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #66 Total</b>		--	--	--	<b>0</b>	--	--	--		
1	57	ATSF	64.60	San Bernardino	Swarthout Canyon Rd	N/A	2	100		
<b>Segment #57 Total</b>		--	--	--	<b>1</b>	--	--	--		
1	58	ATSF	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #58 Total</b>		--	--	--	<b>0</b>	--	--	--		
1	59	ATSF	36.60	San Bernardino	6th St.	N/A	4	4,000		
1	59	ATSF	31.90	San Bernardino	1st St.	N/A	3	1,000		
1	59	ATSF	28.60	San Bernardino	Robinson Ranch Rd.	N/A	2	100		
1	59	ATSF	27.60	San Bernardino	S. Bryman Rd.	N/A	2	200		
1	59	ATSF	26.10	San Bernardino	N. Bryman Rd.	N/A	2	100		
1	59	ATSF	25.10	San Bernardino	Turner Rd.	N/A	2	30		
1	59	ATSF	22.00	San Bernardino	Vista Rd.	N/A	2	980		
1	59	ATSF	17.30	San Bernardino	Indian Trail Rd.	N/A	2	100		
1	59	ATSF	10.60	San Bernardino	Hinkley Rd.	N/A	2	300		
1	59	ATSF	5.70	San Bernardino	Lenwood Rd.	N/A	2	3,370		
<b>Segment #59 Total</b>		--	--	--	<b>10</b>	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
1	60	ATSF	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #60 Total</b>		--	--	--	0	--	--	--		
1	61	UP	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #61 Total</b>		--	--	--	0	--	--	--		
1	43	SP	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #43 Total</b>		--	--	--	0	--	--	--		
1	44	SP	541.00	San Bernardino	Hunts Lane	N/A	2	1,680		
1	44	SP	544.50	San Bernardino	Whittier Ave.	N/A	2	150		
1	44	SP	545.40	San Bernardino	Beaumont Ave.	N/A	2	257		
1	44	SP	546.20	San Bernardino	San Timoteo Cyn Rd.	N/A	2	N/A		
1	44	SP	548.20	San Bernardino	Allesandro Rd.	N/A	2	658		
1	44	SP	549.50	Riverside	Live Oak Cyn Rd	N/A	2	770		
1	44	SP	554.90	Riverside	San Timoteo Cyn Rd	N/A	2	360		
1	44	SP	561.80	Riverside	Veile Ave	N/A	2	400		
1	44	SP	562.20	Riverside	California Ave	N/A	2	1,150		
1	44	SP	562.40	Riverside	Beaumont Ave ST 79	N/A	2	3,400		
1	44	SP	563.10	Riverside	Pennsylvania Ave	N/A	1	500		
1	44	SP	564.20	Riverside	Highland Springs Ave.	N/A	1	230		
1	44	SP	566.20	Riverside	North Sunset Ave	N/A	2	530		
1	44	SP	566.90	Riverside	22nd St	N/A	2	5,669		
1	44	SP	568.20	Riverside	San Gorgonio Ave	N/A	2	2,950		
1	44	SP	568.80	Riverside	Hargreave St	N/A	2	3,010		
1	44	SP	572.60	Riverside	Apache Trail	N/A	2	3,020		
1	44	SP	574.00	Riverside	Broadway	N/A	2	1,490		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
1	44	SP	582.60	Riverside	Tipton Rd	N/A	2	90		
1	44	SP	599.50	Riverside	Monterey Ave	N/A	1	N/A		
1	44	SP	609.70	Riverside	Monroe St	N/A	2	7,422		
<b>Segment #44 Total</b>		-	-	-	21	-	-	-		
<b>Segment #30 Totals</b>					0					
<b>Segment #31 Totals</b>					5					5
<b>Segment #32 Totals</b>					5					5
<b>Segment #33 Totals</b>					7					7
<b>Segment #49 Totals</b>					0					
<b>Segment #40 Totals</b>					10					10
<b>Segment #50 Totals</b>					0					
<b>Segment #34 Totals</b>					-					
<b>Segment #41 Totals</b>					6					6
<b>Segment #45 Totals</b>					23					
<b>Segment #46 Totals</b>					0					
<b>Segment #51 Totals</b>					0					
<b>Segment #42 Totals</b>					10					10
<b>Segment #52 Totals</b>					0					
<b>Segment #53 Totals</b>					0					
<b>Segment #66 Totals</b>					0					
<b>Segment #57 Totals</b>					1					
<b>Segment #58 Totals</b>					0					
<b>Segment #59 Totals</b>					10					
<b>Segment #60 Totals</b>					0					
<b>Segment #61 Totals</b>					0					
<b>Segment #43 Totals</b>					0					
<b>Segment #44 Totals</b>					21					
<b>Route #1 Totals</b>					98					43

## GRADE CROSSING INVENTORY

Name of Route: Baldwin Park Commuter  
Route #: 2

**Legend:**

N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

**Segment #**

1  
2  
3  
4  
5  
6  
7  
9

**From/To**

LAUPT – Mission Tower  
Mission Tower – East Junction  
East Junction – State Street  
State Street – El Monte  
El Monte – Basset  
Basset – North Pomona  
North Pomona – Claremont  
Claremont – San Bernardino

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
2	1	SCRRA	–	Los Angeles	No Crossings	–	–	–		
<b>Segment #1 Total</b>		–	–	–	0	–	–	–		
2	2	SCRRA	–	Los Angeles	No Crossings	–	–	–		
<b>Segment #2 Total</b>		–	–	–	0	–	–	–		
2	3	SCRRA	–	Los Angeles	No Crossings	–	–	–		
<b>Segment #3 Total</b>		–	–	–	0	–	–	–		
2	4	SCRRA	–	Los Angeles	No Crossings	–	–	–		
<b>Segment #4 Total</b>		–	–	–	0	–	–	–		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
2	5	SCRRA	494.80	Los Angeles	Tyler St.	2	1	12,970		
2	5	SCRRA	495.00	Los Angeles	Cypress Ave.	2	1	2,667		
2	5	SCRRA	495.10	Los Angeles	Ramona Blvd.	2	1	31,000		
2	5	SCRRA	495.30	Los Angeles	Temp. Detour Road	2	1	30,870		
2	5	SCRRA	495.30	Los Angeles	Peck Rd.	4	1	30,870		
2	5	SCRRA	496.00	Los Angeles	Cogswell Rd.	2	1	1,272		
2	5	SCRRA	497.10	Los Angeles	Rivergrade Rd	2	1	16,000		
<b>Segment #5 Total</b>		-	-	-	<b>7</b>	-	-	-		
2	6	SCRRA	501.94	Los Angeles	Azusa Canyon Rd.	N/A	1	1,200		
2	6	SCRRA	502.44	Los Angeles	Irwindale Ave.	N/A	1	6,217		
2	6	SCRRA	502.94	Los Angeles	Vincent Ave.	N/A	2	400		
2	6	SCRRA	503.45	Los Angeles	Lark Ellen Ave.	N/A	2	400		
2	6	SCRRA	503.96	Los Angeles	Azusa Ave.	N/A	2	12,900		
2	6	SCRRA	504.46	Los Angeles	Hollenbeck St.	N/A	2	7,500		
2	6	SCRRA	504.96	Los Angeles	Citrus Ave.	N/A	2	2,370		
2	6	SCRRA	505.47	Los Angeles	Barranca St.	N/A	1	9,000		
2	6	SCRRA	505.98	Los Angeles	Grand Ave.	N/A	1	2,100		
2	6	SCRRA	506.50	Los Angeles	Glendora Ave.	N/A	1	95		
2	6	SCRRA	506.77	Los Angeles	Cypress Ave & Banwa	N/A	1	750		
2	6	SCRRA	507.06	Los Angeles	Bonnie Cove Ave.	N/A	1	145		
2	6	SCRRA	507.45	Los Angeles	Covina Blvd.	N/A	1	3,500		
2	6	SCRRA	507.58	Los Angeles	Sunflower Ave.	N/A	1	4,320		
2	6	SCRRA	508.09	Los Angeles	Valley Center Ave.	N/A	1	2,690		
2	6	SCRRA	508.59	Los Angeles	Lone Hill Ave.	N/A	1	400		
2	6	SCRRA	509.59	Los Angeles	Cataract Ave.	N/A	1	150		
2	6	SCRRA	509.84	Los Angeles	San Dimas Ave.	N/A	1	150		
2	6	SCRRA	510.09	Los Angeles	Walnut Ave.	N/A	1	150		
2	6	SCRRA	510.60	Los Angeles	San Dimas Canyon Rd.	N/A	1	N/A		
2	6	SCRRA	511.92	Los Angeles	D St.	N/A	1	500		
2	6	SCRRA	512.03	Los Angeles	E St.	N/A	1	1,000		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
2	6	SCRRA	512.21	Los Angeles	Arrow Highway	N/A	1	2,000		
2	6	SCRRA	512.38	Los Angeles	White Ave.	N/A	1	9,103		
2	6	SCRRA	512.84	Los Angeles	Fulton Rd.	N/A	1	11,700		
2	6	SCRRA	513.28	Los Angeles	Garey Ave.	N/A	1	11,700		
2	6	SCRRA	513.96	Los Angeles	Towne Ave.	N/A	1	7,961		
<b>Segment #6 Total</b>		-	-	-	<b>27</b>	-	-	-		
2	7	ATSF	105.40	Los Angeles	Cambridge Ave.	N/A	1	N/A		
2	7	ATSF	104.90	Los Angeles	Indian Hill Blvd.	N/A	1	N/A		
2	7	ATSF	104.70	Los Angeles	College Ave.	N/A	1	N/A		
<b>Segment #7 Total</b>		-	-	-	<b>3</b>	-	-	-		
2	9	ATSF	105.40	Los Angeles	Cambridge Ave.	N/A	2	N/A		
2	9	ATSF	104.90	Los Angeles	Indian Hill Blvd.	N/A	2	9,500		
2	9	ATSF	104.70	Los Angeles	College Ave.	N/A	2	1,817		
2	9	ATSF	104.10	Los Angeles	Claremont Blvd.	N/A	1	2,952		
2	9	ATSF	103.20	San Bernardino	Central Ave.	N/A	1	12,000		
2	9	ATSF	102.70	San Bernardino	Benson Ave.	N/A	1	3,600		
2	9	ATSF	102.10	San Bernardino	Mountain Ave.	N/A	1	14,600		
2	9	ATSF	101.60	San Bernardino	San Antonio Ave.	N/A	1	6,910		
2	9	ATSF	101.00	San Bernardino	Euclid Ave. (SR 83)	N/A	1	30,000		
2	9	ATSF	100.90	San Bernardino	2nd Ave.	N/A	2	3,500		
2	9	ATSF	100.80	San Bernardino	Sultana Ave.	N/A	2	2,500		
2	9	ATSF	100.50	San Bernardino	Campus Ave.	N/A	2	6,400		
2	9	ATSF	99.70	San Bernardino	N. Grove Ave.	N/A	1	9,900		
2	9	ATSF	99.20	San Bernardino	Baker Ave.	N/A	1	1,800		
2	9	ATSF	98.70	San Bernardino	Vineyard Ave.	N/A	1	9,000		
2	9	ATSF	98.20	San Bernardino	Hellman Ave.	N/A	1	1,000		
2	9	ATSF	97.70	San Bernardino	Archibald Ave.	N/A	1	9,000		





## GRADE CROSSING INVENTORY

Name of Route: Moorpark Commuter  
Route #: 3

Legend:

N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

Segment #

1  
2  
10  
12  
14  
15

From/To

LAUPT – Mission Tower  
Mission Tower – East Junction  
East Junction – Maintenance Facility  
Maintenance Facility – Burbank  
Burbank – Gemco  
Gemco – Moorpark

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
3	1	SCRRA	–	Los Angeles	No Crossings	–	–	–		
<b>Segment # 1 Total</b>		–	–	–	<b>0</b>	–	–	–		
3	2	SCRRA	–	Los Angeles	No Crossings	–	–	–		
<b>Segment # 2 Total</b>		–	–	–	<b>0</b>	–	–	–		
3	10	SCRRA/SP	481.70	Los Angeles	Main Street	N/A	2	N/A		
<b>Segment # 10 Total</b>		–	–	–	<b>1</b>	–	–	–		
3	12	SCRRA	473.10	Los Angeles	Allen Ave.	N/A	2	4,000		
3	12	SCRRA	473.80	Los Angeles	Sonora Ave.	N/A	2	12,000		
3	12	SCRRA	474.20	Los Angeles	Grand View Ave.	N/A	2	4,000		
3	12	SCRRA	474.50	Los Angeles	Bekins Way	N/A	2	8,000		
3	12	SCRRA	474.80	Los Angeles	Aviation Dr.	N/A	2	4,000		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
3	12	SCRRA	475.40	Los Angeles	Broadway	N/A	2	5,000		
3	12	SCRRA	476.10	Los Angeles	Goodwin Ave.	N/A	2	3,000		
3	12	SCRRA	476.40	Los Angeles	Chevy Chase Dr.	N/A	2	5,000		
<b>Segment #12 Total</b>		--	--	--	<b>8</b>	--	--	--		
3	14	SCRRA	457.00	Los Angeles	Coldwater Canyon Rd.	N/A	1	12,000		
3	14	SCRRA	457.30	Los Angeles	Bellaire Ave.	N/A	1	11,100		
3	14	SCRRA	459.10	Los Angeles	Tujunga Ave.	N/A	1	N/A		
3	14	SCRRA	459.60	Los Angeles	Vineland Ave.	N/A	1	12,000		
3	14	SCRRA	460.20	Los Angeles	Clybourne St.	N/A	2	7,500		
3	14	SCRRA	461.50	Los Angeles	Buena Vista St.	N/A	2	10,200		
<b>Segment #14 Total</b>		--	--	--	<b>6</b>	--	--	--		
3	15	SP	427.00	Ventura	Moorpark Ave.	N/A	2	4,800		
3	15	SP	427.40	Ventura	Spring St.	N/A	1	4,130		
3	15	SP	428.40	Ventura	Avenida Colonia	N/A	1	20		
3	15	SP	429.60	Ventura	L.A. Ave. (ST 118)	N/A	1	4,600		
3	15	SP	430.90	Ventura	Quimisa Dr.	N/A	1	500		
3	15	SP	433.30	Ventura	1st St.	N/A	1	9,800		
3	15	SP	434.40	Ventura	Erringer Rd.	N/A	1	5,070		
3	15	SP	435.30	Ventura	Sycamore Dr.	N/A	1	17,630		
3	15	SP	436.10	Ventura	Sequoia Ave.	N/A	2	5,310		
3	15	SP	437.30	Ventura	Tapo St.	N/A	2	12,490		
3	15	SP	437.70	Ventura	Los Angeles Ave.	N/A	1	11,530		
3	15	SP	439.70	Ventura	Katherine Rd.	N/A	1	3,710		
3	15	SP	444.70	Los Angeles	Chatsworth St.	N/A	3	164		
3	15	SP	445.20	Los Angeles	Devonshire St.	N/A	2	4,500		
3	15	SP	445.70	Los Angeles	Lassen St.	N/A	1	500		
3	15	SP	446.80	Los Angeles	De Soto St.	N/A	1	8,000		



## GRADE CROSSING INVENTORY

Name of Route: Santa Clarita Commuter  
Route #: 4

**Legend:**

N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

**Segment #**  
1  
2  
10  
12  
13

**From/To**  
LAUPT – Mission Tower  
Mission Tower – East Junction  
East Junction – Maintenance Facility  
Maintenance Facility – Burbank  
Burbank – Saugus

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
4	1	SCRRA	--	Los Angeles	No Crossings	--	--	--		
<b>Segment #1 Total</b>		--	--	--	<b>0</b>	--	--	--		
4	2	SCRRA	--	Los Angeles	No Crossings	--	--	--		
<b>Segment #2 Total</b>		--	--	--	<b>0</b>	--	--	--		
4	10	SCRRA/SP	481.70	Los Angeles	Main Street	N/A	2	N/A		
<b>Segment #10 Total</b>		--	--	--	<b>1</b>	--	--	--		
4	12	SCRRA	473.10	Los Angeles	Allen Ave.	N/A	2	4,000		
4	12	SCRRA	473.80	Los Angeles	Sonora Ave.	N/A	2	12,000		
4	12	SCRRA	474.20	Los Angeles	Grand View Ave.	N/A	2	4,000		
4	12	SCRRA	474.50	Los Angeles	Bekins Way	N/A	2	8,000		
4	12	SCRRA	474.80	Los Angeles	Aviation Dr.	N/A	2	4,000		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
4	12	SCRRA	475.40	Los Angeles	Broadway	N/A	2	5,000		
4	12	SCRRA	476.10	Los Angeles	Goodwin Ave.	N/A	2	3,000		
4	12	SCRRA	476.40	Los Angeles	Chevy Chase Dr.	N/A	2	5,000		
<b>Segment #12 Total</b>		--	--	--	<b>8</b>	--	--	--		
4	13	SP	450.50	Los Angeles	Drayton St.	N/A	1	150		
4	13	SP	451.30	Los Angeles	Parvin Dr.	N/A	1	300		
4	13	SP	452.50	Los Angeles	13th St.	N/A	1	150		
4	13	SP	452.90	Los Angeles	Market St. - Pine St.	N/A	1	200		
4	13	SP	453.30	Los Angeles	Newhall Ave. St 126	N/A	2	5,000		
4	13	SP	459.20	Los Angeles	Roxford St.	N/A	2	3,500		
4	13	SP	459.70	Los Angeles	Bledsoe St.	N/A	1	2,500		
4	13	SP	460.30	Los Angeles	Polk St.	N/A	1	N/A		
4	13	SP	461.00	Los Angeles	Hudbard Ave.	N/A	2	22,850		
4	13	SP	461.80	Los Angeles	McClay Ave.	N/A	2	6,000		
4	13	SP	461.90	Los Angeles	Brand Blvd.	N/A	2	3,000		
4	13	SP	462.00	Los Angeles	Jessie St.	N/A	2	760		
4	13	SP	462.80	Los Angeles	Paxton St.	N/A	1	7,000		
4	13	SP	463.40	Los Angeles	Van Nuys Blvd.	N/A	2	3,000		
4	13	SP	463.60	Los Angeles	Pierce St.	N/A	2	7,000		
4	13	SP	464.50	Los Angeles	Osborne St.	N/A	1	15,000		
4	13	SP	465.00	Los Angeles	Branford St.	N/A	1	4,000		
4	13	SP	465.70	Los Angeles	Sheldon St.	N/A	1	7,000		
4	13	SP	467.20	Los Angeles	Penrose St.	N/A	1	5,000		
4	13	SP	467.80	Los Angeles	Sunland Blvd.	N/A	2	15,000		
4	13	SP	468.70	Los Angeles	Arvilla	N/A	1	4,000		
4	13	SP	469.40	Los Angeles	Hollywood Way	N/A	1	15,000		
4	13	SP	470.10	Los Angeles	Buena Vista St.	N/A	1	15,000		
<b>Segment #13 Total</b>		--	--	--	<b>23</b>	--	--	--		





Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
5	19	ATSF	151.30	Los Angeles	Serapis Ave.	N/A	2	4,600		
5	19	ATSF	151.45	Los Angeles	Passons Blvd	N/A	2	9,300		
<b>Segment #19 Total</b>		--	--	--	2	--	--	--		
5	20	ATSF	152.29	Los Angeles	Pioneer Blvd.	N/A	2	11,000		
5	20	ATSF	152.80	Los Angeles	Decosta Blvd.	N/A	2	N/A		
5	20	ATSF	153.10	Los Angeles	Norwalk Blvd.	N/A	2	17,600		
5	20	ATSF	153.20	Los Angeles	Los Nietos Rd.	N/A	2	N/A		
5	20	ATSF	155.10	Los Angeles	Lakeland Rd.	N/A	3	4,700		
5	20	ATSF	157.28	Los Angeles	Carmenita Rd.	N/A	3	N/A		
5	20	ATSF	157.80	Los Angeles	Rosecrans Blvd.	N/A	3	17,000		
5	20	ATSF	158.40	Los Angeles	Valley View Blvd.	N/A	3	18,000		
5	20	ATSF	161.30	Orange	Dale St.	N/A	3	12,000		
5	20	ATSF	162.40	Orange	Gilbert Ave.	N/A	3	20,000		
5	20	ATSF	164.70	Orange	Highland	N/A	3	8,400		
<b>Segment #20 Total</b>		--	--	--	11	--	--	--		
5	21	ATSF	166.20	Orange	Orangethorpe Ave.	N/A	1	20,000		
5	21	ATSF	167.10	Orange	La Palma Ave.	N/A	1	17,000		
5	21	ATSF	167.40	Orange	E. Sycamore St.	N/A	1	3,500		
5	21	ATSF	167.90	Orange	E. Broadway	N/A	2	10,000		
5	21	ATSF	168.00	Orange	Santa Ana St.	N/A	2	4,500		
5	21	ATSF	168.30	Orange	E. South St.	N/A	2	3,000		
5	21	ATSF	168.70	Orange	E. Vermont Ave.	N/A	2	5,000		
5	21	ATSF	169.20	Orange	Ball Rd.	N/A	1	22,000		
5	21	ATSF	169.70	Orange	Cerritos Ave.	N/A	1	3,500		
5	21	ATSF	170.30	Orange	State College Blvd	N/A	1	27,000		
5	21	ATSF	171.10	Orange	Eckhoff St.	N/A	1	5,376		
5	21	ATSF	171.50	Orange	Main St.	N/A	2	12,440		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
5	21	ATSF	171.80	Orange	Batavia St.	N/A	2	7,922		
5	21	ATSF	172.30	Orange	Walnut St.	N/A	2	5,300		
5	21	ATSF	172.50	Orange	Palm Ave.	N/A	2	2,296		
5	21	ATSF	172.70	Orange	Chapman Ave.	N/A	2	15,275		
5	21	ATSF	172.80	Orange	Almond Ave.	N/A	2	2,808		
<b>Segment #21 Total</b>		—	—	—	<b>17</b>	—	—	—		
5	22	ATSF	172.90	Orange	Palmyra Ave.	N/A	1	1,500		
5	22	ATSF	173.30	Orange	La Veta Ave.	N/A	1	20,118		
5	22	ATSF	173.60	Orange	Fairhaven Ave.	N/A	1	5,000		
5	22	ATSF	174.20	Orange	Santa Clara Ave.	N/A	1	3,000		
5	22	ATSF	174.70	Orange	17th St.	N/A	1	35,000		
5	22	ATSF	174.90	Orange	Washington Ave.	N/A	1	5,500		
5	22	ATSF	175.10	Orange	Santa Ana Blvd.	N/A	1	10,000		
5	22	ATSF	175.40	Orange	4th St.	N/A	1	15,000		
5	22	ATSF	175.80	Orange	Chestnut Ave.	N/A	2	6,000		
5	22	ATSF	176.20	Orange	Grand Ave.	N/A	2	15,000		
5	22	ATSF	176.60	Orange	Lyon St.	N/A	2	2,000		
5	22	ATSF	176.70	Orange	McFadden Ave.	N/A	2	12,000		
5	22	ATSF	176.80	Orange	Ritchey St.	N/A	2	3,100		
5	22	ATSF	177.90	Orange	Redhill Ave.	N/A	2	15,000		
<b>Segment #22 Total</b>		—	—	—	<b>14</b>	—	—	—		
5	72	ATSF	179.90	Orange	Harvard Ave.	N/A	1	2,000		
5	72	ATSF	180.50	Orange	Culver Rd.	N/A	2	5,000		
5	72	ATSF	182.00	Orange	Jeffrey Rd.	N/A	1	2,000		
5	72	ATSF	182.90	Orange	Sand Canyon Ave.	N/A	1	8,000		
5	72	ATSF	196.20	Orange	Oso Rd.	N/A	1	2,000		
5	72	ATSF	196.80	Orange	La Zanja St.	N/A	1	N/A		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
<b>Segment #22 Total</b>									--	--
5	23	ATSF	197.30	Orange	Verdugo St.	N/A	1	1,025		
5	23	ATSF	197.40	Orange	Del Obispo St.	N/A	1	5,000		
5	23	ATSF	198.80	Orange	Avenida Aeropuerto	N/A	1	4,000		
5	23	ATSF	201.00	Orange	Beach Rd.	N/A	1	3,600		
5	23	ATSF	203.60	Orange	Senda De La Playa	N/A	1	120		
5	23	ATSF	225.90	San Diego	6th St.	N/A	1	5,000		
5	23	ATSF	226.18	San Diego	3rd St.	N/A	1	10,000		
<b>Segment #23 Total</b>									--	--
5	24	ATSF	226.40	San Diego	Tyson St.	N/A	2	2,000		
5	24	ATSF	226.80	San Diego	Wisconsin Ave.	N/A	1	5,000		
5	24	ATSF	227.20	San Diego	Oceanside Blvd.	N/A	1	6,000		
5	24	ATSF	228.00	San Diego	Cassidy St.	N/A	1	6,000		
5	24	ATSF	229.20	San Diego	Grand Ave.	N/A	1	2,000		
5	24	ATSF	229.30	San Diego	Elm Ave.	N/A	1	10,000		
5	24	ATSF	230.10	San Diego	Tamarack Ave.	N/A	1	3,000		
5	24	ATSF	231.40	San Diego	Cannon Rd.	N/A	1	2,500		
5	24	ATSF	236.50	San Diego	Leucadia Blvd.	N/A	1	6,400		
5	24	ATSF	237.90	San Diego	D St.	N/A	1	3,200		
5	24	ATSF	237.95	San Diego	E St.	N/A	1	6,600		
5	24	ATSF	239.80	San Diego	Chesterfield Dr.	N/A	1	11,900		
5	24	ATSF	241.80	San Diego	Lomas Sante Fe Dr.	N/A	1	13,600		
5	24	ATSF	244.10	San Diego	Coast Blvd.	N/A	1	5,000		
5	24	ATSF	249.10	San Diego	Sorrento Valley Blvd.	N/A	1	5,000		
5	24	ATSF	264.20	San Diego	Taylor St.	N/A	1	15,000		
5	24	ATSF	265.40	San Diego	Noell St.	N/A	2	1,400		
5	24	ATSF	265.60	San Diego	Washington St.	N/A	2	20,000		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
5	24	ATSF	265.80	San Diego	Vine St.	N/A	2	2,500		
5	24	ATSF	266.10	San Diego	Sassafras St.	N/A	2	10,000		
5	24	ATSF	266.40	San Diego	Palm St.	N/A	2	3,200		
5	24	ATSF	266.60	San Diego	Laurel St.	N/A	2	13,500		
5	24	ATSF	266.70	San Diego	Juniper St.	N/A	2	2,000		
5	24	ATSF	266.90	San Diego	Hawthorn St.	N/A	2	10,100		
5	24	ATSF	267.00	San Diego	Grape St.	N/A	2	10,100		
5	24	ATSF	267.20	San Diego	Cedar St.	N/A	2	2,000		
5	24	ATSF	267.25	San Diego	Beech St.	N/A	2	2,000		
5	24	ATSF	267.30	San Diego	Ash St.	N/A	2	10,000		
<b>Segment #24 Total</b>		-	-	-	<b>28</b>	-	-	-		
5	25	ATSF	267.60	San Diego	Broadway	N/A	2	16,000		
5	25	ATSF	267.70	San Diego	E St.	N/A	2	5,000		
5	25	ATSF	267.75	San Diego	F St.	N/A	2	8,000		
5	25	ATSF	267.80	San Diego	Kettner Blvd + G St.	N/A	2	15,000		
5	25	ATSF	267.90	San Diego	India St. at Market	N/A	2	15,000		
5	25	ATSF	268.50	San Diego	Fifth Ave.	N/A	2	7,400		
5	25	ATSF	268.70	San Diego	Eighth Ave.	N/A	2	7,000		
5	25	ATSF	269.40	San Diego	Crosby St.	N/A	3	N/A		
5	25	ATSF	269.80	San Diego	Sampson St.	N/A	3	1,800		
5	25	ATSF	270.20	San Diego	Harbor Dr. at Bell	N/A	2	13,000		
5	25	ATSF	270.40	San Diego	28th St.	N/A	2	8,000		
5	25	ATSF	271.00	San Diego	32nd St.	N/A	2	8,000		
5	25	ATSF	272.10	San Diego	8th St.	N/A	2	10,000		
5	25	ATSF	272.30	San Diego	Bay Blvd.	N/A	2	20,000		
5	25	ATSF	272.50	San Diego	Civic Center Dr.	N/A	2	4,000		
5	25	ATSF	272.80	San Diego	19th St.	N/A	2	3,000		
<b>Segment #25 Total</b>		-	-	-	<b>16</b>	-	-	-		



## GRADE CROSSING INVENTORY

Name of Route: Riverside Via Ontario

Route # : 6

**Legend:**

N/A – Not Available  
 SCRRA – So. Cal. Reg. Rail Auth.  
 UP – Union Pacific RR  
 SP – Southern Pacific RR  
 ATSF – Santa Fe RR

**Segment #**

1  
 2  
 37  
 30  
 31  
 32  
 33  
 34  
 35  
 71

**From/To**

LAUPT – Mission Tower  
 Mission Tower – East Junction  
 Soto Street – East Junction  
 Soto Street – East Yard  
 East Yard – Bartolo  
 Bartolo – Puente Junction  
 Puente Junction – Spadra  
 Spadra – Montclair  
 Montclair – West Riverside  
 Riverside – West Riverside

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
6	1	SCRRA	--	Los Angeles	No Crossings	--	--	--		
<b>Segment #1 Total</b>		--	--	--	<b>0</b>	--	--	--		
6	2	SCRRA	--	Los Angeles	No Crossings	--	--	--		
<b>Segment #2 Total</b>		--	--	--	<b>0</b>	--	--	--		
6	37	SCRRA	--	Los Angeles	No Crossings	--	--	--		
<b>Segment #37 Total</b>		--	--	--	<b>0</b>	--	--	--		
6	30	SCRRA	--	Los Angeles	No Crossings	--	--	--		
<b>Segment #30 Total</b>		--	--	--	<b>0</b>	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
6	31	UP	7.80	Los Angeles	S. Vail Ave	2	2	7,633		
6	31	UP	8.00	Los Angeles	S. Maple Ave	2	2	3,500		
6	31	UP	8.30	Los Angeles	S. Greenwood Ave	2	2	8,809		
6	31	UP	8.50	Los Angeles	Montebello Blvd	4	1	3,100		
6	31	UP	10.30	Los Angeles	Durfee Ave	2	2	9,600		
<b>Segment #31 Total</b>		—	—	—	5	—	—	—		
6	32	UP	12.30	Los Angeles	Rosehill Rd	2	2	5,758		
6	32	UP	12.40	Los Angeles	Mission Mill Rd	2	2	1,533		
6	32	UP	13.90	Los Angeles	Workmen Mill Rd.	2	2	14,700		
6	32	UP	16.40	Los Angeles	7th Ave.	2	2	2,903		
6	32	UP	17.20	Los Angeles	Turnbull Canyon Rd.	2	2	10,400		
<b>Segment #32 Total</b>		—	—	—	5	—	—	—		
6	33	UP	18.30	Los Angeles	Stinson Ave	2	2	7,400		
6	33	UP	19.10	Los Angeles	Bixby Dr.	2	3	N/A		
6	33	UP	21.40	Los Angeles	Fullerton Rd.	4	1	N/A		
6	33	UP	22.40	Los Angeles	Nogales Ave	2	1	37,500		
6	33	UP	23.40	Los Angeles	Fairway Dr.	2	1	302		
6	33	UP	24.40	Los Angeles	Lemon St	2	2	799		
6	33	UP	24.90	Los Angeles	Brea Canyon Rd.	2	2	16,688		
<b>Segment #33 Total</b>		—	—	—	7	—	—	—		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
6	34	UP	31.30	Los Angeles	Hamilton Blvd	2	1	10,061		
6	34	UP	31.80	Los Angeles	Park Avenue	2	1	6,249		
6	34	UP	31.90	Los Angeles	Main St	2	1	3,188		
6	34	UP	32.30	Los Angeles	Palomares Ave	2	1	2,440		
6	34	UP	32.80	Los Angeles	San Antonio Ave	2	1	6,798		
6	34	UP	33.00	Los Angeles	Reservoir St	2	2	6,439		
6	34	UP	33.50	Los Angeles	East End Ave	2	1	6950		
<b>Segment #34 Total</b>		--	--	--	<b>7</b>	--	--	--		
6	35	UP	37.10	San Bernardino	S. San Antonio Ave	2	2	5,520		
6	35	UP	37.40	San Bernardino	S. Vine Ave	2	2	4,617		
6	35	UP	38.00	San Bernardino	S. Sultana Ave	2	2	7,994		
6	35	UP	38.30	San Bernardino	Campus Ave	2	1	5,300		
6	35	UP	38.50	San Bernardino	Bonview Ave	2	1	7,000		
6	35	UP	39.00	San Bernardino	Grove Ave	2	1	27,779		
6	35	UP	40.10	San Bernardino	Vineyard Ave	2	1	3,132		
6	35	UP	41.20	San Bernardino	Archibald Ave	2	2	3,700		
6	35	UP	41.80	San Bernardino	Turner Ave	2	2	800		
6	35	UP	43.40	Riverside	Milliken Ave	2	2	16,601		
6	35	UP	47.10	Riverside	Bellgrave Avenue	2	2	4,595		
6	35	UP	47.30	Riverside	Rutile Street	2	2	2,320		
6	35	UP	48.20	Riverside	Jurupa Rd	2	2	9,726		
6	35	UP	49.10	Riverside	56th Street	2	1	2,320		
6	35	UP	49.80	Riverside	Limonite Ave	2	1	20,810		
6	35	UP	50.90	Riverside	Clay Street	4	1	N/A		
6	35	UP	53.10	Riverside	Jurupa Ave	2	2	9,740		
6	35	UP	53.30	Riverside	Mountain View Ave	2	2	1,213		
6	35	UP	53.80	Riverside	Streeter Ave	2	2	9640		
6	35	UP	54.80	Riverside	Palm Ave	2	2	5,600		
6	35	UP	55.00	Riverside	Brockton Avenue	4	2	12,670		
6	35	UP	55.20	Riverside	Magnolia Ave	2	2	22,480		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
6	35	UP	55.60	Riverside	Riverside Ave	3	1	10,950		
6	35	UP	56.20	Riverside	Panorama Rd	2	1	2,250		
6	35	UP	56.60	Riverside	Cridge Street	2	2	4,100		
<b>Segment 35 Total</b>		-	-	-	25	-	-	-		
7	71	ATSF	9.50	Riverside	3th St.	N/A	3	5,040		
7	71	ATSF	9.75	Riverside	7th St.	N/A	3	2,660		
<b>Segment #71 Total</b>		-	-	-	2	-	-	-		
<b>Segment #1 Total</b>					0					
<b>Segment #2 Total</b>					0					
<b>Segment #37 Total</b>					0					
<b>Segment #30 Total</b>					0					
<b>Segment #31 Total</b>					5					
<b>Segment #32 Total</b>					5					
<b>Segment #33 Total</b>					7					
<b>Segment #34 Total</b>					7					
<b>Segment #35 Total</b>					25					
<b>Segment #71 Total</b>					2					
<b>Route #6 Total</b>		-	-	-	51	-	-	-		

## GRADE CROSSING INVENTORY

Name of Route: Riverside – LAUPT via Fullerton  
Route #: 7

**Legend:**

N/A – Not Available  
SCRRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

Segment #	From/To
71	Riverside – West Riverside
27	Atwood – West Riverside
26	Fullerton – Atwood
20	DT Junction – Fullerton
19	Hobart – DT Junction
18	Redondo – Hobart
17	Mission Tower – Redondo
1	LAUPT – Mission Tower

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
7	71	ATSF	9.50	Riverside	3th St.	N/A	3	5,040		
7	71	ATSF	9.75	Riverside	7th St.	N/A	3	2,660		
<b>Segment #71 Total</b>		-	-	-	2	-	-	-		
7	27	ATSF	10.05	Riverside	10th St.	N/A	1	930		
7	27	ATSF	10.55	Riverside	Prospect St.	N/A	1	3,170		
7	27	ATSF	10.70	Riverside	Cridge St.	N/A	1	4,100		
7	27	ATSF	12.40	Riverside	Arlington Ave	N/A	1	13,100		
7	27	ATSF	12.70	Riverside	Jane St.	N/A	1	1,540		
7	27	ATSF	13.00	Riverside	Mary St.	N/A	1	4,900		
7	27	ATSF	13.20	Riverside	Washington Ave	N/A	1	5,356		
7	27	ATSF	13.70	Riverside	Madison St.	N/A	1	7,500		
7	27	ATSF	14.20	Riverside	Jefferson St.	N/A	1	1,864		
7	27	ATSF	14.80	Riverside	Adams St.	N/A	1	2,000		
7	27	ATSF	15.80	Riverside	Jackson St.	N/A	1	499		
7	27	ATSF	16.10	Riverside	Gibson St.	N/A	2	360		
7	27	ATSF	16.90	Riverside	Garrison St.	N/A	1	1,950		
7	27	ATSF	17.40	Riverside	Tyler St.	N/A	1	1,380		
7	27	ATSF	19.60	Riverside	Pierce St.	N/A	1	820		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
7	27	ATSF	20.10	Riverside	Buchanon St.	N/A	1	190		
7	27	ATSF	20.30	Riverside	Magnolia Ave. EB	N/A	1	11,765		
7	27	ATSF	20.35	Riverside	Magnolia Ave. WB	N/A	1	11,765		
7	27	ATSF	21.20	Riverside	McKinley St.	N/A	1	6,550		
7	27	ATSF	22.80	Riverside	Park Ridge Rd.	N/A	2	228		
7	27	ATSF	23.90	Riverside	Joy St.	N/A	3	2,054		
7	27	ATSF	24.30	Riverside	Sheridan St.	N/A	2	1,013		
7	27	ATSF	24.50	Riverside	Cota St.	N/A	2	1,097		
7	27	ATSF	25.60	Riverside	Railroad St.	N/A	1	964		
7	27	ATSF	25.80	Riverside	Smith St.	N/A	1	1,726		
7	27	ATSF	27.20	Riverside	Pomona Rincon Rd.	N/A	1	200		
7	27	ATSF	38.40	Orange	Imperial HWY (SR 90)	N/A	1	14,000		
7	27	ATSF	39.20	Orange	Kellog Dr.	N/A	2	N/A		
<b>Segment #27 Total</b>		--	--	--	<b>28</b>	--	--	--		
7	26	ATSF	40.70	Orange	Van Buren St.	N/A	2	2,000		
7	26	ATSF	41.00	Orange	Jefferson St.	N/A	2	4,000		
7	26	ATSF	41.50	Orange	Linda Vista St.	N/A	2	6,000		
7	26	ATSF	41.80	Orange	Orangethorpe Ave.	N/A	2	8,000		
7	26	ATSF	42.50	Orange	Dowling St.	N/A	2	9,000		
7	26	ATSF	43.00	Orange	Bradford Ave.	N/A	2	4,000		
7	26	ATSF	43.10	Orange	Melrose St.	N/A	2	3,000		
7	26	ATSF	43.60	Orange	Placentia Ave.	N/A	2	10,000		
7	26	ATSF	44.00	Orange	State College Blvd.	N/A	2	27,000		
7	26	ATSF	44.50	Orange	Acacia Ave.	N/A	2	5,000		
7	26	ATSF	45.00	Orange	Raymond Ave.	N/A	2	14,950		
<b>Segment #26 Total</b>		--	--	--	<b>11</b>	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
7	20	ATSF	164.70	Orange	Highland	N/A	3	8,400		
7	20	ATSF	162.40	Orange	Gilbert Ave.	N/A	3	20,000		
7	20	ATSF	161.30	Orange	Dale St.	N/A	3	12,000		
7	20	ATSF	158.40	Los Angeles	Valley View Blvd.	N/A	3	18,000		
7	20	ATSF	157.80	Los Angeles	Rosecrans Blvd.	N/A	3	17,000		
7	20	ATSF	157.28	Los Angeles	Carmenita Rd.	N/A	3	N/A		
7	20	ATSF	155.10	Los Angeles	Lakeland Rd.	N/A	3	4,700		
7	20	ATSF	153.20	Los Angeles	Los Nietos Rd.	N/A	2	N/A		
7	20	ATSF	153.10	Los Angeles	Norwalk Blvd.	N/A	2	17,600		
7	20	ATSF	152.80	Los Angeles	Decosta Blvd.	N/A	2	N/A		
7	20	ATSF	152.29	Los Angeles	Pioneer Blvd.	N/A	2	11,000		
<b>Segment #20 Total</b>		—	—	—	<b>11</b>	—	—	—		
7	19	ATSF	151.45	Los Angeles	Passons Blvd	N/A	2	9,300		
7	19	ATSF	151.30	Los Angeles	Serapis Ave.	N/A	2	4,600		
<b>Segment #19 Total</b>		—	—	—	<b>2</b>	—	—	—		
7	18	ATSF	—	Los Angeles	No Crossings	—	—	—		
<b>Segment #18 Total</b>		—	—	—	<b>0</b>	—	—	—		
7	17	ATSF	—	Los Angeles	No Crossings	—	—	—		
<b>Segment #17 Total</b>		—	—	—	<b>0</b>	—	—	—		



## GRADE CROSSING INVENTORY

Name of Route: Hemet – Riverside

Route #: 8

Legend:

N/A – Not Available  
 SCRRA – So. Cal. Reg. Rail Auth.  
 UP – Union Pacific RR  
 SP – Southern Pacific RR  
 ATSF – Santa Fe RR

Segment #

52  
 69

From/To

Riverside – Highgrove  
 Highgrove – Hemet

Route #	Segment #					# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
8	52	ATSF	8.90	Riverside	Kansas Ave.	N/A	2	5024		
8	52	ATSF	8.80	Riverside	Spruce St	N/A	2	1883		
8	52	ATSF	8.10	Riverside	Chicago Ave	N/A	2	518		
8	52	ATSF	7.90	Riverside	Columbia Ave	N/A	2	5470		
8	52	ATSF	7.60	Riverside	Palmyrita Ave	N/A	2	400		
8	52	ATSF	7.30	Riverside	Iowa Ave	N/A	2	7840		
8	52	ATSF	6.70	Riverside	Center St	N/A	3	3500		
<b>Segment #52 Total</b>										
8	69	ATSF	0.40	Riverside	Villa Street	N/A	N/A	50		
8	69	ATSF	0.70	Riverside	Citrus Ave	N/A	N/A	970		
8	69	ATSF	1.00	Riverside	Palmyrita Ave	N/A	N/A	N/A		
8	69	ATSF	1.20	Riverside	Columbia Ave	N/A	N/A	165		
8	69	ATSF	1.50	Riverside	Marlborough Ave	N/A	N/A	20		
8	69	ATSF	2.02	Riverside	Spruce St	N/A	N/A	2500		
8	69	ATSF	2.70	Riverside	Blaine St	N/A	N/A	6214		
8	69	ATSF	3.40	Riverside	Mt. Vernon Ave	N/A	N/A	440		
8	69	ATSF	5.10	Riverside	Gernert Road	N/A	N/A	130		
8	69	ATSF	7.00	Riverside	River Crest Dr	N/A	N/A	N/A		
8	69	ATSF	7.40	Riverside	Eucalyptus Ave	N/A	N/A	600		
8	69	ATSF	8.50	Riverside	Alessandro Blvd	N/A	N/A	11160		
8	69	ATSF	12.80	Riverside	Oleander Ave	N/A	N/A	160		
8	69	ATSF	13.30	Riverside	Markham St	N/A	N/A	2,220		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
8	69	ATSF	13.55	Riverside	Perry St.	N/A	N/A	160		
8	69	ATSF	14.30	Riverside	Cajalco Rd	N/A	N/A	2,330		
8	69	ATSF	14.90	Riverside	Rider St.	N/A	N/A	280		
8	69	ATSF	15.40	Riverside	Placentia St	N/A	N/A	60		
8	69	ATSF	15.70	Riverside	Water St	N/A	N/A	270		
8	69	ATSF	15.90	Riverside	Orange Ave	N/A	N/A	530		
8	69	ATSF	17.00	Riverside	Nuevo Rd	N/A	N/A	2920		
8	69	ATSF	18.10	Riverside	San Jacinto Ave	N/A	N/A	2500		
8	69	ATSF	18.20	Riverside	2nd St.	N/A	N/A	750		
8	69	ATSF	18.35	Riverside	4th St SR 74	N/A	N/A	2500		
8	69	ATSF	18.40	Riverside	5th St.	N/A	N/A	750		
8	69	ATSF	19.03	Riverside	6th St.	N/A	N/A	2500		
8	69	ATSF	19.10	Riverside	7th St.	N/A	N/A	250		
8	69	ATSF	19.20	Riverside	SR 64	N/A	N/A	250		
8	69	ATSF	19.40	Riverside	E St/Perris Blvd.	N/A	N/A	2500		
8	69	ATSF	19.70	Riverside	Johnson Ave	N/A	N/A	250		
8	69	ATSF	19.90	Riverside	Ellis Ave	N/A	N/A	580		
8	69	ATSF	21.60	Riverside	Mapes Road	N/A	N/A	1670		
8	69	ATSF	22.50	Riverside	Watson Rd	N/A	N/A	410		
8	69	ATSF	22.70	Riverside	Sherman Rd	N/A	N/A	950		
8	69	ATSF	23.30	Riverside	Ethanac - Pinacate Rd	N/A	N/A	1,090		
8	69	ATSF	24.50	Riverside	Menefee Rd	N/A	N/A	2580		
8	69	ATSF	25.80	Riverside	Briggs Rd.	N/A	N/A	20		
8	69	ATSF	26.90	Riverside	Leon Rd.	N/A	N/A	70		
8	69	ATSF	28.95	Riverside	Winchester Rd ST 79	N/A	N/A	1150		
8	69	ATSF	29.20	Riverside	Whittier Ave	N/A	N/A	30		
8	69	ATSF	29.50	Riverside	Patterson Ave	N/A	N/A	100		
8	69	ATSF	31.10	Riverside	California Ave	N/A	N/A	200		
8	69	ATSF	32.20	Riverside	Warren Rd	N/A	N/A	3,010		
8	69	ATSF	32.70	Riverside	Fisher St	N/A	N/A	250		
8	69	ATSF	32.90	Riverside	Stetson Ave	N/A	N/A	3,240		
8	69	ATSF	33.30	Riverside	Crawston Ave	N/A	N/A	500		
8	69	ATSF	33.80	Riverside	Sanderson Ave	N/A	N/A	3,240		



## GRADE CROSSING INVENTORY

Name of Route: San Bernardino – Irvine  
Route #: 9

**Legend:**

N/A – Not Available  
SCRRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

**Segment #**

48  
55  
54  
53  
52  
71  
27  
22

**From/To**

Olive – Atwood  
'B' Yard – San Bernardino  
Colton – 'B' Yard  
Highgrove – Colton  
Riverside – Highgrove  
Riverside – West Riverside  
Atwood – West Riverside  
Olive – Irvine

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
9	48	ATSF	0.40	Orange	Jefferson St.	N/A	1	7,400		
9	48	ATSF	0.60	Orange	Mira Loma Ave.	N/A	1	4,000		
9	48	ATSF	0.80	Orange	Tustin Ave.	N/A	1	3,000		
9	48	ATSF	1.10	Orange	La Palma Ave.	N/A	1	18,000		
9	48	ATSF	1.80	Orange	Riverdale Ave.	N/A	1	4,170		
9	48	ATSF	2.50	Orange	Lincoln Ave.	N/A	1	16,866		
9	48	ATSF	3.40	Orange	Meats Ave.	N/A	1	3,824		
9	48	ATSF	3.85	Orange	Glassell St.	N/A	1	9,065		
9	48	ATSF	3.90	Orange	Taft Ave.	N/A	1	12,163		
9	48	ATSF	4.40	Orange	Katella Ave.	N/A	1	24,642		
9	48	ATSF	4.90	Orange	Collins Ave.	N/A	1	13,006		
<b>Segment #48 Total</b>		--	--	--	11	--	--	--		
9	55	ATSF	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #55 Total</b>		--	--	--	0	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
9	54	ATSF	3.00	San Bernardino	"H" St.	N/A	3	1,000		
9	54	ATSF	2.80	San Bernardino	"E" St.	N/A	3	500		
9	54	ATSF	2.40	San Bernardino	Olive St.	N/A	3	1,900		
9	54	ATSF	2.10	San Bernardino	Laurel St.	N/A	3	1,600		
9	54	ATSF	1.30	San Bernardino	Mill St.	N/A	3	1,000		
9	54	ATSF	1.00	San Bernardino	Walnut St.	N/A	2	500		
9	54	ATSF	0.70	San Bernardino	Rialto Ave.	N/A	2	12,900		
<b>Segment #54 Total</b>		-	-	-	<b>7</b>	-	-	-		
9	53	ATSF	6.40	San Bernardino	Main St.	N/A	3	1,000		
9	53	ATSF	3.10	San Bernardino	Valley Blvd.	N/A	3	7,500		
<b>Segment #53 Total</b>		-	-	-	<b>2</b>	-	-	-		
9	52	ATSF	8.90	Riverside	Kansas Ave.	N/A	2	5,024		
9	52	ATSF	8.80	Riverside	Spruce St.	N/A	2	1,883		
9	52	ATSF	8.10	Riverside	Chicago Ave.	N/A	2	518		
9	52	ATSF	7.90	Riverside	Columbia Ave.	N/A	2	5,470		
9	52	ATSF	7.60	Riverside	Palmyrita Ave.	N/A	2	400		
9	52	ATSF	7.30	Riverside	Iowa Ave.	N/A	2	7,840		
9	52	ATSF	6.70	Riverside	Center St.	N/A	3	3,500		
<b>Segment #52 Total</b>		-	-	-	<b>7</b>	-	-	-		
9	71	ATSF	9.75	Riverside	7th St.	N/A	3	2,660		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
9	71	ATSF	9.50	Riverside	3th St.	N/A	3	5,040		
<b>Segment #71 Total</b>		--	--	--	2	--	--	--		
9	27	ATSF	39.20	Orange	Kellog Dr.	N/A	2	N/A		
9	27	ATSF	38.40	Orange	Imperial HWY(SR 90)	N/A	1	14,000		
9	27	ATSF	27.20	Riverside	Pomona Rincon Rd.	N/A	1	200		
9	27	ATSF	25.80	Riverside	Smith St.	N/A	1	1,726		
9	27	ATSF	25.60	Riverside	Railroad St.	N/A	1	964		
9	27	ATSF	24.50	Riverside	Cota St.	N/A	2	1,097		
9	27	ATSF	24.30	Riverside	Sheridan St.	N/A	2	1,013		
9	27	ATSF	23.90	Riverside	Joy St.	N/A	3	2,054		
9	27	ATSF	22.80	Riverside	Park Ridge Rd.	N/A	2	228		
9	27	ATSF	21.20	Riverside	McKinley St.	N/A	1	6,550		
9	27	ATSF	20.35	Riverside	Magnolia Ave. WB	N/A	1	11,765		
9	27	ATSF	20.30	Riverside	Magnolia Ave. EB	N/A	1	11,765		
9	27	ATSF	20.10	Riverside	Buchanon St.	N/A	1	190		
9	27	ATSF	19.60	Riverside	Pierce St.	N/A	1	820		
9	27	ATSF	17.40	Riverside	Tyler St.	N/A	1	1,380		
9	27	ATSF	16.90	Riverside	Garrison St.	N/A	1	1,950		
9	27	ATSF	16.10	Riverside	Gibson St.	N/A	2	360		
9	27	ATSF	15.80	Riverside	Jackson St.	N/A	1	499		
9	27	ATSF	14.80	Riverside	Adams St.	N/A	1	2,000		
9	27	ATSF	14.20	Riverside	Jefferson St.	N/A	1	1,864		
9	27	ATSF	13.70	Riverside	Madison St.	N/A	1	7,500		
9	27	ATSF	13.20	Riverside	Washington Ave	N/A	1	5,356		
9	27	ATSF	13.00	Riverside	Mary St.	N/A	1	4,900		
9	27	ATSF	12.70	Riverside	Jane St.	N/A	1	1,540		
9	27	ATSF	12.40	Riverside	Arlington Ave	N/A	1	13,100		
9	27	ATSF	10.70	Riverside	Cridge St.	N/A	1	4,100		
9	27	ATSF	10.55	Riverside	Prospect St.	N/A	1	3,170		





## GRADE CROSSING INVENTORY

Name of Route: Redlands Commuter

Route # : 10

**Legend:**

N/A – Not Available  
 SCRRA – So. Cal. Reg. Rail Auth.  
 UP – Union Pacific RR  
 SP – Southern Pacific RR

Segment #

68

From/To

San Bernardino – Redlands

Route #	Segment #					# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
10	68	ATSF	0.10	San Bernardino	3rd. St.	N/A	1	5000		
10	68	ATSF	0.20	San Bernardino	Broadway	N/A	1	100		
10	68	ATSF	0.23	San Bernardino	Main Street	N/A	1	100		
10	68	ATSF	0.27	San Bernardino	2nd Street	N/A	1	6300		
10	68	ATSF	0.50	San Bernardino	Rialto Ave & 1 st	N/A	1	12800		
10	68	ATSF	0.70	San Bernardino	So. G Street	N/A	1	3100		
10	68	ATSF	1.00	San Bernardino	So. E Street	N/A	1	13900		
10	68	ATSF	1.10	San Bernardino	D Street	N/A	1	2600		
10	68	ATSF	1.20	San Bernardino	So Arrowhead Avenue	N/A	1	10000		
10	68	ATSF	1.50	San Bernardino	So Sierra Way	N/A	1	4500		
10	68	ATSF	2.00	San Bernardino	Mill Street	N/A	1	12700		
10	68	ATSF	2.40	San Bernardino	Central Avenue	N/A	1	6200		
10	68	ATSF	2.80	San Bernardino	Ennis Street	N/A	1	500		
10	68	ATSF	3.00	San Bernardino	Waterman Ave	N/A	1	15700		
10	68	ATSF	4.20	San Bernardino	Tippecanoe Ave	N/A	1	9300		
10	68	ATSF	4.60	San Bernardino	Richardson Street	N/A	1	2200		
10	68	ATSF	5.20	San Bernardino	Mountain View	N/A	1	2010		
10	68	ATSF	5.80	San Bernardino	Bryn Mawr St	N/A	1	4		
10	68	ATSF	6.30	San Bernardino	California St	N/A	1	500		
10	68	ATSF	6.80	San Bernardino	Nevada Street	N/A	1	234		
10	68	ATSF	7.30	San Bernardino	Alabama Street	N/A	1	9500		
10	68	ATSF	7.40	San Bernardino	Colton Ave	N/A	1	2700		
10	68	ATSF	7.80	San Bernardino	Tennessee St	N/A	1	3000		
10	68	ATSF	8.10	San Bernardino	New York St	N/A	1	500		
10	68	ATSF	8.20	San Bernardino	Stuart Ave	N/A	1	400		



### GRADE CROSSING INVENTORY

Name of Route: West Colton To Ports  
Route # : 11

**Legend:**

N/A – Not Available  
SCRRA – So. Cal. Reg. Rail Auth.  
UP – Union Pacific RR  
SP – Southern Pacific RR  
ATSF – Santa Fe RR

<u>Segment #</u>	<u>From/To</u>
28	Ports – "J" Yard
29	J" Yard – Soto St
37	Soto St. – East Jct.
38	East Jct. – Alhambra
39	Alhambra – El Monte
5	El Monte – Bassett
70	Bassett – City of Industry
40	City of Industry – Pomona
41	Pomona – Montclair
42	Montclair – West Colton
43	West Colton – Colton
44	Colton – Indio
45	Indio – Yuma

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
11	37	SCRRA	--	Los Angeles	No Crossings	--	--	--		
<b>Segment #37 Total</b>		--	--	--	<b>0</b>	--	--	--		
11	38	SP	484.00	Los Angeles	San Pablo St.	N/A	2	2,398		
11	38	SP	484.75	Los Angeles	Vineburn Ave.	N/A	2	2,018		
11	38	SP	485.00	Los Angeles	North Boca Rd.	N/A	2	5,400		
11	38	SP	485.80	Los Angeles	Valley Blvd.	N/A	2	14,122		
11	38	SP	487.42	Los Angeles	Fremont Av Detour A	N/A	2	N/A		
11	38	SP	487.43	Los Angeles	Fremont Av Detour B	N/A	2	N/A		
<b>Segment #38 Total</b>		--	--	--	<b>6</b>	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
11	39	SP	488.51	Los Angeles	Atlantic Blvd.	N/A	1	N/A		
11	39	SP	490.20	Los Angeles	Ramona Blvd.	N/A	1	13,000		
11	39	SP	490.30	Los Angeles	Mission Dr.	N/A	1	12,500		
11	39	SP	490.70	Los Angeles	Del Mar Ave.	N/A	1	10,000		
11	39	SP	491.20	Los Angeles	San Gabriel Blvd.	N/A	1	23,000		
11	39	SP	491.60	Los Angeles	Walnut Grove Ave.	N/A	1	4,505		
11	39	SP	492.60	Los Angeles	Encinita Ave.	N/A	1	3,300		
11	39	SP	492.70	Los Angeles	Lower Azusa Rd.	N/A	1	11,000		
11	39	SP	493.30	Los Angeles	Temple City Blvd.	N/A	1	10,235		
11	39	SP	493.60	Los Angeles	Balwin Ave.	N/A	1	12,869		
11	39	SP	494.00	Los Angeles	Arden Rd.	N/A	1	7,103		
<b>Segment #39 Total</b>		--	--	--	11	--	--	--		
11	5	SCRRA	494.80	Los Angeles	Tyler St.	N/A	1	12,970		
11	5	SCRRA	495.00	Los Angeles	Cypress Ave.	N/A	1	2,667		
11	5	SCRRA	495.10	Los Angeles	Ramona Blvd.	N/A	1	31,000		
11	5	SCRRA	495.30	Los Angeles	Temp. Detour Road	N/A	1	30,870		
11	5	SCRRA	495.30	Los Angeles	Peck Rd.	N/A	1	30,870		
11	5	SCRRA	496.00	Los Angeles	Cogswell Rd.	N/A	1	1,272		
11	5	SCRRA	497.10	Los Angeles	Rivergrade Rd	N/A	3	16,000		
<b>Segment #5 Total</b>		--	--	--	7	--	--	--		
11	70	SP	497.80	Los Angeles	Vineland Ave.	N/A	1	5,440		
11	70	SP	498.20	Los Angeles	Puente Ave.	N/A	1	15,100		
11	70	SP	498.80	Los Angeles	Orange Ave.	N/A	1	3,636		
11	70	SP	499.20	Los Angeles	Sunset Ave.	N/A	1	7,299		
11	70	SP	499.60	Los Angeles	California Ave.	N/A	1	5,482		
<b>Segment #70 Total</b>		--	--	--	5	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
11	40	SP	503.90	Los Angeles	Fullerton Rd.	N/A	1	N/A		
11	40	SP	504.80	Los Angeles	Nogales Ave.	N/A	1	2,336		
11	40	SP	505.75	Los Angeles	Fairway Dr.	N/A	1	N/A		
11	40	SP	506.70	Los Angeles	Lemon Rd.	N/A	2	2,084		
11	40	SP	508.00	Los Angeles	Brea Canyon Rd.	N/A	1	3,967		
11	40	SP	510.20	Los Angeles	Pomona Blvd.	N/A	1	3,644		
11	40	SP	510.50	Los Angeles	Temple Ave.	N/A	1	50		
11	40	SP	513.60	Los Angeles	Hamilton Blvd.	N/A	2	10,061		
11	40	SP	514.10	Los Angeles	Park Ave.	N/A	3	6,249		
11	40	SP	514.30	Los Angeles	Main St.	N/A	2	3,188		
<b>Segment #40 Total</b>		--	--	--	<b>10</b>	--	--	--		
11	41	SP	514.70	Los Angeles	Palomares Ave.	N/A	2	5,960		
11	41	SP	515.20	Los Angeles	San Antonio Ave.	N/A	2	6,798		
11	41	SP	515.40	Los Angeles	Reservoir Ave.	N/A	1	6,439		
11	41	SP	515.90	Los Angeles	East End Ave.	N/A	1	6,950		
11	41	SP	516.90	San Bernardino	Ramona Ave.	N/A	1	8,100		
11	41	SP	517.40	San Bernardino	Monte Vista Ave	N/A	2	5,200		
<b>Segment #41 Total</b>		--	--	--	<b>6</b>	--	--	--		
11	42	SP	519.60	San Bernardino	San Antoinio Ave.	N/A	1	4,300		
11	42	SP	519.80	San Bernardino	Vine Ave.	N/A	2	4,600		
11	42	SP	520.10	San Bernardino	Euclid Ave.	N/A	2	22,000		
11	42	SP	520.40	San Bernardino	Sultana Ave.	N/A	2	3,500		
11	42	SP	520.70	San Bernardino	Campus Ave.	N/A	2	5,300		
11	42	SP	520.90	San Bernardino	Bon View Ave.	N/A	2	7,100		
11	42	SP	522.40	San Bernardino	Vineyard Ave.	N/A	1	9,000		
11	42	SP	523.40	San Bernardino	Archibald Ave.	N/A	1	3,400		
11	42	SP	523.90	San Bernardino	Turner Ave.	N/A	2	800		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
11	42	SP	525.40	San Bernardino	Milliken Ave.	N/A	1	10,400		
<b>Segment #42 Total</b>		--	--	--	<b>10</b>	--	--	--		
11	43	SP	--	--	No Crossings	--	--	--		
<b>Segment #43 Total</b>		--	--	--	<b>0</b>	--	--	--		
11	44	SP	541.00	San Bernardino	Hunts Lane	N/A	2	1,680		
11	44	SP	544.50	San Bernardino	Whittier Ave.	N/A	2	150		
11	44	SP	545.40	San Bernardino	Beaumont Ave.	N/A	2	257		
11	44	SP	546.20	San Bernardino	San Timoteo Cyn Rd.	N/A	2	N/A		
11	44	SP	548.20	San Bernardino	Allesandro Rd.	N/A	2	658		
11	44	SP	549.50	Riverside	Live Oak Cyn Rd	N/A	2	770		
11	44	SP	554.90	Riverside	San Timoteo Cyn Rd	N/A	2	360		
11	44	SP	561.80	Riverside	Veile Ave	N/A	2	400		
11	44	SP	562.20	Riverside	California Ave	N/A	2	1150		
11	44	SP	562.40	Riverside	Beaumont Ave ST 79	N/A	2	3400		
11	44	SP	563.10	Riverside	Pennsylvania Ave	N/A	1	500		
11	44	SP	564.20	Riverside	Highland Springs Av	N/A	1	230		
11	44	SP	566.20	Riverside	North Sunset Ave	N/A	2	530		
11	44	SP	566.90	Riverside	22nd St	N/A	2	5669		
11	44	SP	568.20	Riverside	San Gorgonio Ave	N/A	2	2950		
11	44	SP	568.80	Riverside	Hargreave St	N/A	2	3010		
11	44	SP	572.60	Riverside	Apache Trail	N/A	2	3020		
11	44	SP	574.00	Riverside	Broadway	N/A	2	1490		
11	44	SP	582.60	Riverside	Tipton Rd	N/A	2	90		
11	44	SP	599.50	Riverside	Monterey Ave	N/A	1	N/A		
11	44	SP	609.70	Riverside	Monroe St	N/A	2	7422		
<b>Segment #44 Total</b>		--	--	--	<b>21</b>	--	--	--		





### GRADE CROSSING INVENTORY

**Name of Route: Barstow To Ports**  
**Route # : 12**

**Legend:**

N/A - Not Available  
 SCRRRA - So. Cal. Reg. Rail Auth.  
 UP - Union Pacific RR  
 SP - Southern Pacific RR  
 ATSF - Santa Fe RR

<u>Segment #</u>	<u>From/To</u>
28	Ports LA/LB - "J" - Yard
36	"J" - Yard - Redondo
18	Redondo - Hobart
19	Hobart - DT Junction
20	DT Junction - Fullerton
26	Fullerton - Atwood
27	Atwood - West Riverside
71	Riverside - West Riverside
52	Riverside - Highgrove
53	Highgrove - Colton
54	Colton - 'B' Yard
55	'B' Yard - San Bernardino
56	San Bernardino - Keenbrook
57	Keenbrook - Summit
58	Summit - Victorville
59	Victorville - Barstow

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
12	36	SP	484.65	Los Angeles	Santa Fe Ave.	N/A	1	N/A		
12	36	SP	484.54	Los Angeles	Washington Blvd.	N/A	1	N/A		
<b>Segment #36 Total</b>		--	--	--	<b>2</b>	--	--	--		
12	18	ATSF	--	Los Angeles	No Crossings	--	--	--		
<b>Segment #18 Total</b>		--	--	--	<b>0</b>	--	--	--		
12	19	ATSF	151.30	Los Angeles	Serapis Ave.	N/A	2	4,600		
12	19	ATSF	151.45	Los Angeles	Passons Blvd.	N/A	2	9,300		
<b>Segment #19 Total</b>		--	--	--	<b>2</b>	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
12	20	ATSF	152.29	Los Angeles	Pioneer Blvd.	N/A	2	11,000		
12	20	ATSF	152.80	Los Angeles	Decosta Blvd.	N/A	2	N/A		
12	20	ATSF	153.10	Los Angeles	Norwalk Blvd.	N/A	2	17,600		
12	20	ATSF	153.20	Los Angeles	Los Nietos Rd.	N/A	2	N/A		
12	20	ATSF	155.10	Los Angeles	Lakeland Rd.	N/A	3	4,700		
12	20	ATSF	157.28	Los Angeles	Carmenita Rd.	N/A	3	N/A		
12	20	ATSF	157.80	Los Angeles	Rosecrans Blvd.	N/A	3	17,000		
12	20	ATSF	158.40	Los Angeles	Valley View Blvd.	N/A	3	18,000		
12	20	ATSF	161.30	Orange	Dale St.	N/A	3	12,000		
12	20	ATSF	162.40	Orange	Gilbert Ave.	N/A	3	20,000		
12	20	ATSF	164.70	Orange	Highland	N/A	3	8,400		
<b>Segment #20 Total</b>		-	-	-	11	-	-	-		
12	26	ATSF	45.00	Orange	Raymond Ave.	N/A	2	14,950		
12	26	ATSF	44.50	Orange	Acacia Ave.	N/A	2	5,000		
12	26	ATSF	44.00	Orange	State College Blvd.	N/A	2	27,000		
12	26	ATSF	43.60	Orange	Placentia Ave.	N/A	2	10,000		
12	26	ATSF	43.10	Orange	Melrose St.	N/A	2	3,000		
12	26	ATSF	43.00	Orange	Bradford Ave.	N/A	2	4,000		
12	26	ATSF	42.50	Orange	Dowling St.	N/A	2	9,000		
12	26	ATSF	41.80	Orange	Orangethorpe Ave.	N/A	2	8,000		
12	26	ATSF	41.50	Orange	Linda Vista St.	N/A	2	6,000		
12	26	ATSF	41.00	Orange	Jefferson St.	N/A	2	4,000		
12	26	ATSF	40.70	Orange	Van Buren St.	N/A	2	2,000		
<b>Segment #26 Total</b>		-	-	-	11	-	-	-		
12	27	ATSF	39.20	Orange	Kellog Dr.	N/A	2	N/A		
12	27	ATSF	38.40	Orange	Imperial HWY(SR 90)	N/A	1	14,000		
12	27	ATSF	27.20	Riverside	Pomona Rincon Rd.	N/A	1	200		
12	27	ATSF	25.80	Riverside	Smith St.	N/A	1	1,726		
12	27	ATSF	25.60	Riverside	Railroad St.	N/A	1	964		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
12	52	ATSF	8.90	Riverside	Kansas Ave.	N/A	2	5,024		
12	52	ATSF	8.80	Riverside	Spruce St.	N/A	2	1,883		
12	52	ATSF	8.10	Riverside	Chicago Ave.	N/A	2	518		
12	52	ATSF	7.90	Riverside	Columbia Ave.	N/A	2	5,470		
12	52	ATSF	7.60	Riverside	Palmyrita Ave.	N/A	2	400		
12	52	ATSF	7.30	Riverside	Iowa Ave.	N/A	2	7,840		
12	52	ATSF	6.70	Riverside	Center St.	N/A	3	3,500		
<b>Segment #52 Total</b>		--	--	--	<b>7</b>	--	--	--		
12	53	ATSF	6.40	San Bernardino	Main St.	N/A	3	1,000		
12	53	ATSF	3.10	San Bernardino	Valley Blvd.	N/A	3	7,500		
<b>Segment #53 Total</b>		--	--	--	<b>2</b>	--	--	--		
12	54	ATSF	3.00	San Bernardino	"H" St.	N/A	3	1,000		
12	54	ATSF	2.80	San Bernardino	"E" St.	N/A	3	500		
12	54	ATSF	2.40	San Bernardino	Olive St.	N/A	3	1,900		
12	54	ATSF	2.10	San Bernardino	Laurel St.	N/A	3	1,600		
12	54	ATSF	1.30	San Bernardino	Mill St.	N/A	3	1,000		
12	54	ATSF	1.00	San Bernardino	Walnut St.	N/A	2	500		
12	54	ATSF	0.70	San Bernardino	Rialto Ave.	N/A	2	12,900		
<b>Segment #54 Total</b>		--	--	--	<b>7</b>	--	--	--		
12	55	ATSF	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #55 Total</b>		--	--	--	<b>0</b>	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
12	27	ATSF	24.50	Riverside	Cota St.	N/A	2	1,097		
12	27	ATSF	24.30	Riverside	Sheridan St.	N/A	2	1,013		
12	27	ATSF	23.90	Riverside	Joy St.	N/A	3	2,054		
12	27	ATSF	22.80	Riverside	Park Ridge Rd.	N/A	2	228		
12	27	ATSF	21.20	Riverside	McKinley St.	N/A	1	6,550		
12	27	ATSF	20.35	Riverside	Magnolia Ave. WB	N/A	1	11,765		
12	27	ATSF	20.30	Riverside	Magnolia Ave. EB	N/A	1	11,765		
12	27	ATSF	20.10	Riverside	Buchanon St.	N/A	1	190		
12	27	ATSF	19.60	Riverside	Pierce St.	N/A	1	820		
12	27	ATSF	17.40	Riverside	Tyler St.	N/A	1	1,380		
12	27	ATSF	16.90	Riverside	Garrison St.	N/A	1	1,950		
12	27	ATSF	16.10	Riverside	Gibson St.	N/A	2	360		
12	27	ATSF	15.80	Riverside	Jackson St.	N/A	1	499		
12	27	ATSF	14.80	Riverside	Adams St.	N/A	1	2,000		
12	27	ATSF	14.20	Riverside	Jefferson St.	N/A	1	1,864		
12	27	ATSF	13.70	Riverside	Madison St.	N/A	1	7,500		
12	27	ATSF	13.20	Riverside	Washington Ave	N/A	1	5,356		
12	27	ATSF	13.00	Riverside	Mary St.	N/A	1	4,900		
12	27	ATSF	12.70	Riverside	Jane St.	N/A	1	1,540		
12	27	ATSF	12.40	Riverside	Arlington Ave	N/A	1	13,100		
12	27	ATSF	10.70	Riverside	Cridge St.	N/A	1	4,100		
12	27	ATSF	10.55	Riverside	Prospect St.	N/A	1	3,170		
12	27	ATSF	10.05	Riverside	10th St.	N/A	1	930		
<b>Segment #27 Total</b>		--	--	--	<b>28</b>	--	--	--		
12	71	ATSF	9.75	Riverside	7th St.	N/A	3	2,660		
12	71	ATSF	9.50	Riverside	3rd St.	N/A	3	5,040		
<b>Segment #71 Total</b>		--	--	--	<b>2</b>	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
12	56	ATSF	76.60	San Bernardino	State St.	N/A	2	4,200		
12	56	ATSF	74.00	San Bernardino	Palm Ave.	N/A	2	1,322		
12	56	ATSF	71.00	San Bernardino	Devore Rd.	N/A	2	610		
<b>Segment #56 Totals</b>		--	--	--	<b>3</b>	--	--	--		
12	57	ATSF	64.60	San Bernardino	Swarthout Canyon Rd.	N/A	2	100		
<b>Segment #57 Totals</b>		--	--	--	<b>1</b>	--	--	--		
12	58	ATSF	--	San Bernardino	No Crossings	N/A	--	--		
<b>Segment #58 Totals</b>		--	--	--	<b>0</b>	--	--	--		
12	59	ATSF	36.60	San Bernardino	6th St.	N/A	4	4,000		
12	59	ATSF	31.90	San Bernardino	1st St.	N/A	3	1,000		
12	59	ATSF	28.60	San Bernardino	Robinson Ranch Rd.	N/A	2	100		
12	59	ATSF	27.60	San Bernardino	S. Bryman Rd.	N/A	2	200		
12	59	ATSF	26.10	San Bernardino	N. Bryman Rd.	N/A	2	100		
12	59	ATSF	25.10	San Bernardino	Turner Rd.	N/A	2	30		
12	59	ATSF	22.00	San Bernardino	Vista Rd.	N/A	2	980		
12	59	ATSF	17.30	San Bernardino	Indian Trail Rd.	N/A	2	100		
12	59	ATSF	10.60	San Bernardino	Hinkley Rd.	N/A	2	300		
12	59	ATSF	5.70	San Bernardino	Lenwood Rd.	N/A	2	3,370		
<b>Segment #59 Totals</b>		--	--	--	<b>10</b>	--	--	--		



## GRADE CROSSING INVENTORY

Name of Route: Union Pacific Ports To Yermo

Route # : 13

**Legend:**

N/A – Not Available  
 SCRRA – So. Cal. Reg. Rail Auth.  
 UP – Union Pacific RR  
 SP – Southern Pacific RR  
 ATSF – Santa Fe RR

**Segment #**

28  
29  
30  
31  
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**From/To**

Ports LA/LB – J-Yard  
 J-Yard – Soto Street  
 Soto Street – East Yard  
 East Yard – Bartolo  
 Bartolo – Puente Jct.  
 Puente Junction – Spadra  
 Spadra – Montclair  
 Montclair – West Riverside  
 Riverside – West Riverside  
 Riverside – Highgrove  
 Highgrove – Colton  
 Colton – 'B' Yard  
 'B' Yard – San Bernardino  
 San Bernardino – Keenbrook  
 Keenbrook – Summit  
 Summit – Victorville  
 Victorville – Barstow  
 Barstow – Daggett  
 Daggett – Yermo Yard

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
13	30	UP	–	Los Angeles	No Crossings					
<b>Segment #30 Total</b>		–	–	–	<b>0</b>	–	–	–		
13	31	UP	7.80	Los Angeles	S. Vail Ave	2	2	7633		
13	31	UP	8.00	Los Angeles	S. Maple Ave	2	2	3500		
13	31	UP	8.30	Los Angeles	S. Greenwood Ave	2	2	8809		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
13	31	UP	8.50	Los Angeles	Montebello Blvd	4	1	3100		
13	31	UP	10.30	Los Angeles	Durfee Ave	2	2	9600		
<b>Segment #31 Total</b>		—	—	—	5	—	—	—		
13	32	UP	12.30	Los Angeles	Rosehill Rd	2	2	5758		
13	32	UP	12.40	Los Angeles	Mission Mill Rd	2	2	1533		
13	32	UP	13.90	Los Angeles	Workmen Mill Rd.	2	2	14700		
13	32	UP	16.40	Los Angeles	7th Ave.	2	2	2903		
13	32	UP	17.20	Los Angeles	Turnbull Canyon Rd.	2	2	10400		
<b>Segment #32 Total</b>		—	—	—	5	—	—	—		
13	33	UP	18.30	Los Angeles	Stinson Ave	2	2	7,400		
13	33	UP	19.10	Los Angeles	Bixby Dr.	2	3	N/A		
13	33	UP	21.40	Los Angeles	Fullerton Rd.	4	1	N/A		
13	33	UP	22.40	Los Angeles	Nogales Ave	2	1	37,500		
13	33	UP	23.40	Los Angeles	Fairway Dr.	2	1	302		
13	33	UP	24.40	Los Angeles	Lemon St	2	2	799		
13	33	UP	24.90	Los Angeles	Brea Canyon Rd.	2	2	16,688		
<b>Segment #33 Total</b>		—	—	—	7	—	—	—		
13	34	UP	31.30	Los Angeles	Hamilton Blvd.	1	1	10,061		
13	34	UP	31.80	Los Angeles	Park Ave.	2	1	6,249		
13	34	UP	31.90	Los Angeles	Main St.	1	1	3,188		
13	34	UP	32.30	Los Angeles	Palomares Ave.	1	1	2,440		
13	34	UP	32.80	Los Angeles	San Antonio Ave.	1	1	6,798		
13	34	UP	33.00	Los Angeles	Reservoir St.	2	2	6,439		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
13	34	UP	33.50	Los Angeles	East End Ave.	1	1	6,950		
<b>Segment #34 Total</b>		--	--	--	7	--	--	--		
13	35	UP	37.10	San Bernardino	S. San Antonio Ave	2	2	5,520		
13	35	UP	37.40	San Bernardino	S. Vine Ave	2	2	4,617		
13	35	UP	38.00	San Bernardino	S. Sultana Ave	2	2	7,994		
13	35	UP	38.30	San Bernardino	Campus Ave	2	1	5,300		
13	35	UP	38.50	San Bernardino	Bonview Ave	2	1	7,000		
13	35	UP	39.00	San Bernardino	Grove Ave	2	1	27,779		
13	35	UP	40.10	San Bernardino	Vineyard Ave	2	1	3,132		
13	35	UP	41.20	San Bernardino	Archibald Ave	2	2	3,700		
13	35	UP	41.80	San Bernardino	Turner Ave	2	2	800		
13	35	UP	43.40	Riverside	Milliken Ave	2	2	16,601		
13	35	UP	47.10	Riverside	Bellgrave Avenue	N/A	2	4,595		
13	35	UP	47.30	Riverside	Rutile Street	N/A	2	2,320		
13	35	UP	48.20	Riverside	Jurupa Rd	N/A	2	9,726		
13	35	UP	49.10	Riverside	56th Street	N/A	1	2,320		
13	35	UP	49.80	Riverside	Limonite Ave	N/A	1	20,810		
13	35	UP	50.90	Riverside	Clay Stret	N/A	2	N/A		
13	35	UP	53.10	Riverside	Jurupa Ave	N/A	2	9,740		
13	35	UP	53.30	Riverside	Mountain View Ave	N/A	2	1,213		
13	35	UP	53.80	Riverside	Streeter Ave	N/A	2	9640		
13	35	UP	54.80	Riverside	Palm Ave	N/A	2	5,600		
13	35	UP	55.00	Riverside	Brockton Avenue	N/A	2	12,670		
13	35	UP	55.20	Riverside	Magnolia Ave	N/A	2	22,480		
13	35	UP	55.60	Riverside	Riverside Ave	N/A	1	10,950		
13	35	UP	56.20	Riverside	Panorama Rd	N/A	1	2,250		
13	35	UP	56.60	Riverside	Cridge Street	N/A	2	4,100		
<b>Segment 35 Total</b>		--	--	--	25	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
13	71	ATSF	9.75	Riverside	7th St.	N/A	3	2,660		
13	71	ATSF	9.50	Riverside	3th St.	N/A	3	5,040		
<b>Segment #71 Total</b>		--	--	--	2	--	--	--		
13	52	ATSF	8.90	Riverside	Kansas Ave.	N/A	2	5,024		
13	52	ATSF	8.80	Riverside	Spruce St.	N/A	2	1,883		
13	52	ATSF	8.10	Riverside	Chicago Ave.	N/A	2	518		
13	52	ATSF	7.90	Riverside	Columbia Ave.	N/A	2	5,470		
13	52	ATSF	7.60	Riverside	Palmyrita Ave.	N/A	2	400		
13	52	ATSF	7.30	Riverside	Iowa Ave.	N/A	2	7,840		
13	52	ATSF	6.70	Riverside	Center St.	N/A	3	3,500		
<b>Segment #52 Total</b>		--	--	--	7	--	--	--		
13	53	ATSF	6.40	San Bernardino	Main St.	N/A	3	1,000		
13	53	ATSF	3.10	San Bernardino	Valley Blvd.	N/A	3	7,500		
<b>Segment #53 Total</b>		--	--	--	2	--	--	--		
13	54	ATSF	3.00	San Bernardino	"H" St.	N/A	3	1,000		
13	54	ATSF	2.80	San Bernardino	"E" St.	N/A	3	500		
13	54	ATSF	2.40	San Bernardino	Olive St.	N/A	3	1,900		
13	54	ATSF	2.10	San Bernardino	Laurel St.	N/A	3	1,600		
13	54	ATSF	1.30	San Bernardino	Mill St.	N/A	3	1,000		
13	54	ATSF	1.00	San Bernardino	Walnut St.	N/A	2	500		
13	54	ATSF	0.70	San Bernardino	Rialto Ave.	N/A	2	12,900		
<b>Segment #54 Total</b>		--	--	--	7	--	--	--		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
13	55	ATSF	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #55 Total</b>		--	--	--	<b>0</b>	--	--	--		
13	56	ATSF	76.60	San Bernardino	State St.	N/A	2	4,200		
13	56	ATSF	74.00	San Bernardino	Palm Ave.	N/A	2	1,322		
13	56	ATSF	71.00	San Bernardino	Devore Rd.	N/A	2	610		
<b>Segment #56 Totals</b>		--	--	--	<b>3</b>	--	--	--		
13	57	ATSF	64.60	San Bernardino	Swarthout Canyon Rd.	N/A	2	100		
<b>Segment #57 Totals</b>		--	--	--	<b>1</b>	--	--	--		
13	58	ATSF	--	San Bernardino	No Crossings	--	--	--		
<b>Segment #58 Totals</b>		--	--	--	<b>0</b>	--	--	--		
13	59	ATSF	36.60	San Bernardino	6th St.	N/A	4	4,000		
13	59	ATSF	31.90	San Bernardino	1st St.	N/A	3	1,000		
13	59	ATSF	28.60	San Bernardino	Robinson Ranch Rd.	N/A	2	100		
13	59	ATSF	27.60	San Bernardino	S. Bryman Rd.	N/A	2	200		
13	59	ATSF	26.10	San Bernardino	N. Bryman Rd.	N/A	2	100		
13	59	ATSF	25.10	San Bernardino	Turner Rd.	N/A	2	30		
13	59	ATSF	22.00	San Bernardino	Vista Rd.	N/A	2	980		
13	59	ATSF	17.30	San Bernardino	Indian Trail Rd.	N/A	2	100		
13	59	ATSF	10.60	San Bernardino	Hinkley Rd.	N/A	2	300		

Route #	Segment #	Owner	Milepost	County	Description	# of Road Lanes	# of Tracks	ADT Volume	Recommendation	
									Elimination	Separation
13	59	ATSF	5.70	San Bernardino	Lenwood Rd.	N/A	2	3,370		
Segment #59 Totals		-	-	-	10	-	-	-		
13	60	ATSF	-	-	No Crossings	-	-	-		
Segment #60 Total		-	-	-	0	-	-	-		
13	61	UP	-	-	No Crossings	-	-	-		
Segment #61 Total		-	-	-	0	-	-	-		
Segment #30 Total					0					
Segment #31 Total					5					
Segment #32 Total					5					
Segment #33 Total					7					
Segment #34 Total					7					
Segment #35 Total					25					
Segment #71 Total					2					
Segment #52 Total					7					
Segment #53 Total					2					
Segment #54 Total					7					
Segment #55 Total					0					
Segment #56 Total					3					
Segment #57 Total					1					
Segment #58 Total					0					
Segment #59 Total					10					
Segment #60 Total					0					
Segment #61 Total					0					
Line #13 Total					81					

**APPENDIX 5-4**

**APPENDIX 5-4**

**IMPACT OF ELECTRIFICATION  
PHASE SELECTIVE AND TRU-II  
TRACK CIRCUITS**

## **IMPLICATIONS OF ELECTRIFICATION ON THE SIGNAL SYSTEM OF EXISTING NON-ELECTRIFIED RAILROADS**

The requirement to electrify the existing non electrified railroad will have a significant impact on the signal system design and its associated procurement and installation costs. The following is a discussion of alternatives for the signal system, a recommended system configuration and the implications of adopting this system.

### **THE CRITERIA:**

Installation of a state of the art signal system that is compatible with the planned electrification of the railroads. In addition, the signal system should allow the addition of cab signals.

The proposed electrification has been defined as 50,000 volts 60 Hz single phase AC.

### **THE ISSUE:**

The primary factor impacting the project is the need to replace the track circuit equipment in total to be compatible with electrification. The track circuit equipment currently in use on the railroads is not know, but is probably a DC type, which is not compatible with AC or DC electrification.

### **THE ALTERNATIVES:**

#### **1. Conventional Fixed Block Track Circuits:**

There are several types of track circuits that are compatible with direct current or the proposed 50,000 volt 60 Hz Electrification.

- Vane relays
- Centrifugal relays
- Universal code track circuits
- Audio frequency track circuits
- Phase selective track circuits
- TRU-II track circuits.

Vane relays are not immune to the 50,000 volt 60 Hz or 25 Hz propulsion return currents. Track circuit shunting is not reliable in the presence of the return currents.

Centrifugal relays are no longer manufactured and parts are hard to obtain.

Universal code track circuits are cab signal compatible, but have not proven compatible with 60 Hz electrification.

Audio frequency track circuits are primarily used in close headway rapid transit applications. These circuits do not require insulated joints at block boundaries, but are limited to about 1,500 feet in length by the carrier frequencies employed, and have had problems with broken down insulated joint detection at interlockings.

Phase selective track circuit were specifically developed to be compatible with 25 Hz and 60 Hz electrification. These track circuits are coded and can control wayside signal aspects without separate line wires. The code rates act as cab signal codes in cab signal territory, which eliminates additional hardware to superimpose the cab signal on the train detection signal. These track circuits can operate up to 6,000 feet. This track circuit is currently used on the Northeast Corridor between Washington and Boston in both electrified and cab signaled territory.

The TRU-II track circuit is a steady energy circuit operating at 100 Hz or 200 Hz, and was designed for use in 25 Hz an 60 Hz electrified territory to replace the centrifugal relay track circuit. This circuit is currently employed within interlockings in cab signaled and electrified territory on the Northeast Corridor. The cab signal must be superimposed on the train detection signal, and separate circuits are required for control of the wayside signal aspects. These track circuits can operate up to 4,000 feet.

## **2. Moving Block System:**

The moving block concept does not require a "track circuit" for train location determination. This type system employs a wayside inductive loop as a high capacity, bi-directional communications link between the train and wayside systems. Computers on the train and on the wayside interact to provide safe train separation and provide manual and full automated train operations capabilities.

The wayside loops contain periodic transpositions that are detected and counted by the train's onboard computer. Because the transpositions are at fixed intervals, the distance traveled can be compared to an onboard tachometer to determine train location in a safe and reliable manner. The location is transmitted via this loop to the wayside computer system, which has the primary safety responsibility. This wayside system receives and processes the location, velocity and direction of all trains in its area of control, and issues commands to each train to maintain safe train separation. In manual operation, speed information would be sent to the onboard computer for display in the cab. Overspeed protection can also be provided by this system.

The primary application of this system is in very close headway rapid transit and people movers. Although this system should operate successfully in the electrified environment with proper frequency coordination, each locomotive operation on the system must be equipped with the onboard computer, sensors, and antenna, and the inductive loop must be installed along the entire length of the railroad.

In addition, some provision would have to be made for unequipped trains and broken rail detection. This would take the form of a conventional fixed block signal with the moving block system overlaid for high speed train operations.

To our knowledge, this system has not been used or proven over long distances, as opposed to rapid transit applications, common to railroad and commuter rail services.

## **3. Advance Train Control:**

Advance train control in a radio-based system that employs a vital onboard computer, locomotive health and end of train integrity monitoring systems, a tachometer, a display, a 900 Mhz radio, wayside transponders, and train-mounted antenna and reader. Passive wayside

transponders are detected, read and processed by the train's onboard computer. The transponders transmit their exact location when interrogated by the train's reader, and this location is compared to an onboard tachometer to determine train location in a safe and reliable manner. The location is transmitted via the radio to the wayside computer system, which receives and processes the location and direction of all trains, issues signal aspects to each train for the next two "zones" is equivalent to the fixed block system "block". In manual operation, cab aspect information would be sent to the onboard computer for display in the cab. Overspeed protection can also be provided by this system.

The primary application of this system is for currently dark freight railroads. Although this system should operate in the electrified environment with proper frequency coordination, each onboard computer, cab display, sensors, transponder antenna and reader, 900 Mhz radio and antenna.

As with the moving block type system, some provision would have to be made for unequipped trains and broken rail detection. This would take the form of a conventional fixed block signal system with the ATCS system overlaid.

Because this system has yet to be successfully implemented and the final specifications for the full train control portions of ATCS are several years away from completion by ARINC RESEARCH CORPORATION, it does not appear suitable for application on the project.

#### **RECOMMENDED CONFIGURATION:**

The recommended configuration for the SCRRRA electrification project would consist of a fixed block signal system composed of phase selective track circuit in the ABS territory and TRU-II track circuits within the interlockings. This train detection system will safely and reliably operate in the electrified environment and is compatible with cab signals. Typical circuits are contained in Exhibit 1. This configuration eliminates the need for additional hardware to reliably detect overruns and broken down insulated joints, which would be required if the phase selective circuit were exclusively applied. In addition, the phase selective circuit will operate up to 600 feet, whereas the TRU-II is limited to 4000 feet in length. These phase selective circuits will require cut in length. These phase selective circuited will require cut sections between adjacent ABS locations that are spaced more than 6000 feet apart.

The phase selective track circuit can control wayside signal aspects without separate line wires. Decoders are employed at each track circuit location to upgrade the signal aspects based on the code rate in the track circuit. This track circuit concept is compatible with cab signals, which can be added at a later date. A carrier frequency compatible with the electromagnetic environment and some additional circuitry would be required to implement cab signals.

The following delineates the codes used for typical signal aspects. These codes are commonly used on other railroads. Final code assignment would be determined by the designers of the signal system.

<b>Name</b>	<b>Aspect</b>	<b>Code Rate*</b>
Clear	G/R	180
Approach Limited	Y/FG	120
Limited Clear	R/FG	120
Limited Approach	R/FY	75
Approach	Y/R	75
Stop	R/R	0

\*Code rates are pulses per minute.

A significant addition to the system using the recommended track circuit concept is the need to separate line wires to distribute 100 Hz power along the entire railroad and a 4-wire traffic circuit where bi-directional running is required. This line cable would have to be direct buried along the entire length of the railroad.

Exhibit 2 contains the cost estimates for the typical track circuits required for the signal system. These estimates include only hardware and labor hour costs, and have not been marked up for fringes, handling and other contracting related costs. These estimates do include costs for local generation of 100 Hz signal power, but these costs are not used for the final SCRRA estimates. The preferred method of 100 Hz generation is from each traction power substation, and this is the assumption for the final SCRRA costs. Only transformation costs have been allocated to the track circuit costs from the exhibit.

Exhibit 2 also contains the cost estimate for the interlocking DC track circuit. This circuit would apply if the electrification were not implemented, and new interlocking equipment were installed. The estimate includes only hardware and labor hour costs, and have not been marked up for fringes, handling and other contracting related costs.

**APPENDIX 5-5**

**APPENDIX 5-5**

**TYPICAL CIRCUITS  
PHASE SELECTIVE AND TRU-II  
TRACK CIRCUITS**

**TRAIN CONTROL CONCEPT PROPOSAL**

**FOR**

**TRI-COUNTY COMMUTER RAIL ORGANIZATION**

**BY**

**HARMON INDUSTRIES, INC.  
BLUE SPRINGS, MISSOURI**

**DECEMBER 1991**

## INTRODUCTION

Harmon Industries is pleased to present a concept proposal to Florida Department of transportation and DeLeuw Cather Engineering for an Automatic Train Control System for use in the Miami - Fort Lauderdale corridor, the Tri-County Commuter Rail Organization or Tri-Rail. This concept, if implemented, would provide for a high level of safety and efficiency in operations, not only for the commuter train service operated by Tri-Rail but also by other present or potential future users of the rail property, especially Amtrak and Florida East Coast Railway.

The concept being proposed is similar in many respects to the Ultra Cab 40 system being installed on the Florida East Coast, but includes some important differences to add to the efficiency of commuter service operation without jeopardizing other types of service on the same line. It provides safety features and operational benefits unmatched by any other available system at a very competitive cost.

From a safety standpoint, the Ultra Cab system provides speed enforcement, braking enforcement, and enforcement of absolute stops, greatly minimizing the opportunities for disastrous accidents resulting from human error. From an efficiency standpoint, the system provides early notification to the engine crew of changes in block conditions ahead, allowing both an earlier speed reduction when called for and an earlier return to normal speed when conditions ahead improve.

Installation of wayside facilities to control the information being sent to the train is far simpler than in old cab signal technology. The use of microprocessor technology, both on the wayside and on the locomotive, allows many more features to be provided than were available in traditional ATC systems, at a lower cost and in a smaller, lighter package.

## CAB SIGNAL VS. WAYSIDE SIGNAL OPERATION

If you could be assured that all trains would be equipped with proper cab signal equipment, there could be a significant reduction in both installation and maintenance costs by eliminating the wayside signals and relying solely on cab signals. However, this reduces the flexibility of operation for those occasions when, for one reason or another, an unequipped train must be handled. In particular, if the FEC-compatible system is installed, any Amtrak trains will, for the foreseeable future, be unequipped, since the FEC system is different from any territory traversed by Amtrak today. This proposal provides for a two-level approach that accommodates all types of trains, using the following guidelines:

- 1) Wayside home signals will be provided at interlockings. In normal operation, a dispatcher request for a clear signal or a signal being cleared locally will respond, conditions permitting, with an aspect that instructs trains to proceed based on cab signal indications. An unequipped train would not be permitted to pass such a signal.
- 2) If an unequipped train is being handled, the dispatcher would make a special "super-clear" request. Wayside vital logic would verify, before responding to this request, that the entire section of track is clear to the next controlled signal, and would then present a conventional wayside aspect to the train. Proposed aspects are listed and described in Appendix 1.

- 3) Wayside approach signals would be used in approach to all interlocking home signals. These approach signals would be located approximately 12,000 feet in the rear of the respective home signal, allowing full braking distance for a heavy freight train. Aspects displayed on the approach signal would be primarily for use by unequipped trains, although a token aspects of these signals are also listed and described in the Appendix.
- 4) Block lengths will be based on two factors: a single block must allow stopping distance for the worst case commuter train, and any two block lengths must allow for the worst case stopping distance for a freight train. Block boundaries will consist of interlocking home signals, approach signals, and other intermediate points consisting only of insulated rail joints where track circuits terminate and cab signal rates are changed.
- 5) Cab signal code rates will be assigned to give freight trains (Florida East Coast locomotives equipped with Ultra Cab 40) an Advance Approach cab aspect two block lengths in advance when a stop or restricting is required. This will give them ample stopping distance. A commuter locomotive operating in the same territory will interpret the codes differently and will not display an advance approach aspect two blocks in advance; it will display an approach aspect one block in advance, at the point at which the freight train's aspect changes from advance Approach to Approach. See Figures 9 and 10 in the Appendix.
- 6) All equipped trains, freight or commuter, will be required to stop short of home signals displaying a STOP aspect. This is accomplished by a combination of way side and on-board logic that cuts off the codes being sent to an approaching train under these conditions. This code cutoff occurs approximately 1500 feet prior to reaching a home signal displaying STOP, and the on-board equipment enforces a braking profile that reaches full stop in around 1200 feet. Failure of the crew to stop will result in an automatic penalty brake application which will result in the required stop.
- 7) General speed enforcement is applied to all equipped trains. On clear cab signals, FEC freight trains are limited to 65 mph. A corresponding appropriate value will be assigned for commuter trains. For diverging moves, a reduction to 40 mph is required and enforced, following a pre-programmed deceleration curve. For Approach aspects, a reduction to 15 mph is required and enforced, and a Restricting aspect will also enforce 15 mph. Once a target speed has been reached, the speed is not allowed to increase again until the aspect and corresponding speed limit improves.
- 8) If there is a requirement to operate in some areas where the ATC wayside equipment is not installed, and this operation would be unduly hampered by the 15 mph restriction, such areas can be declared "Non-Cab" territory, and automatic modes change facilities are provided to switch modes of a locomotive as it crosses the boundary between cab and non-cab territory. This is done with a special code rate used to switch to non-cab mode: this mode then remains in effect until an recognized code is received, at which time the system automatically returns to cab mode. A separate speed limit may be enforced in non-cab territory; Florida East Coast used 45 mph as the non-cab speed limit.

## SIGNAL FACILITIES REQUIRED

Exhibit 1 contains a series of diagrams illustrating how installation and equipment complexities of a wayside signalling system have been simplified through the use of electronic technology. Figure 1 illustrates a conventional approach to the transmission of information between wayside signals in a typical single track environment. Wayside signals are located at all block boundaries, conventional track circuits are used to detect train presence within the boundaries, and multi-conductor cable or line wire is used to convey aspect and block data in a vital manner between signals. The little rectangles located under the signals represents wayside equipment housings.

Figure 2 shows the same territory equipped with electronic coded track circuits. This equipment not only detects train presence in the block, but transmits aspects and block status through the rails in both directions between each two adjacent locations, eliminating the need for the multi-conductor cable or line wire. This is a significant savings in initial cost, where the cable or line wire does not already exist, and a major maintenance saving considering the vulnerability of both cable and line wire to damage from various causes.

There are several major additional benefits in using the electronic coded track circuits. Figure 3 gives an indication of the relay requirements in each wayside housing using conventional wire/cable technology. Although the actual number and use of signal relays varies greatly with the detailed design, this roughly illustrates the typical requirements for a single track intermediate signal location for bi-directional operation. By contrast, Figure 4 illustrates the corresponding equipment requirements using Electronic coded track circuits, such as Harmon's Electro Code system. There are no relays require, and all logic is programmed in the unit using user-friendly ladder-logic techniques based on typical signal circuit design practice. Wayside signals, where used, are driven directly out of the electronic unit.

Figures 5 and 6 illustrate additional flexibility provided by the electronic track circuits. Figure 5 shows the addition of an Electrified Track Interface (ETI), a separate unit that allows the same basic track circuit equipment and logic to operate through an electrified rail environment. With this capability, the signal system installed today is not made obsolete by future electrification. Figure 6 illustrates the addition of a Cab Signal Generator (CSG) in addition to the regular track circuit connections. This allows the track circuit equipment to generate and feed cab signal codes to the track, with no other additional equipment requirements. Using conventional relay technology, adding cab signalling would typically more than double the cost of the way side signal equipment, but with this electronic technology, the addition is minimal.

Figure 7 illustrates that the use of cab signals and operation in electrified territory are compatible features, simply requiring the addition of both the ETI and CSG hardware, with appropriate software to support it. This is the ultimate in system flexibility, based on a common starter platform, the Electro Code track circuit.

Figure 8 shows a section of single track between two sidings, on which the proposed concept of eliminating most wayside signals is illustrated. Equipment cases and track circuit hardware are still required at each block boundary, but the only signals are the interlocking home signals and the approach signals leading to the interlockings.

Another feature not clearly shown in the illustrations but highly advisable to maintain the flexibility in operation is the use of compatible microprocessor based interlocking controllers. Properly selected, these units will provide full compatibility with the sophisticated track circuits and also provide the various aspects for the home signals and the various cab signal codes. They

also provide a high level of local and remote diagnostic capability, data logging, and ease of change if some operational requirement changes. Direct communications with the control center can be provided using wire lines, radio, microwave, satellite link or any combination of these that might be convenient. Considering the distances involved in this service, a combination of radio with dial-phone backup may be the most cost-effective solution that still provides the high level of availability required in a passenger operation.

There are many grade crossings in the area, and these may need special attention. If there is expectation that a wide range of train speeds may be encountered at any one crossing, the crossing warning systems should probably be equipped with constant warning time devices such as Harmon's HXP. This is not feasible if the track is to be electrified, but the HXP can be made compatible with the cab signal operation with proper coordination of frequencies and levels.

## EXHIBIT 1

### PROPOSED SIGNAL ASPECTS:

All wayside signals would have two heads, both of which are equipped for four different colors: Green, Yellow, Red, and Lunar White. Cab signals would be in effect a two-arm color light signal, both arms being equipped with green, yellow or red displays that can be used in various combinations. in the listing below, (F) indicates a flashing aspect of the designated color.

### FOR WAYSIDE HOME SIGNALS:

ASPECT	DEFINITION
L (F)/R	Normal move, proceed on cab signals. Unequipped trains stop.
R/L(F)	Diverging move, proceed on cab signals. Unequipped trains stop.
G/R	Normal move; proceed, clear to next interlocking.
Y/R	Normal move; proceed, preparing to stop at next signal.
R/G	Diverging move; proceed, clear to next interlocking.
R/Y	Diverging move; proceed, preparing to stop at next signal.
R(F)/R	Restricting
R/R	Stop
Y/G	Proceed; approach next signal prepared to take diverging route.

### FOR WAYSIDE APPROACH SIGNALS:

ASPECT	DEFINITION
L(F)/Y	Proceed on cab signals; unequipped train prepare to stop at next signal.
G/R	Proceed.
Y/Y	Proceed, preparing to stop at second signal ahead.
Y/G	Proceed, approach next signal prepared to take diverging route.
Y/R	Proceed, preparing to stop at next signal.
R/	Restricting

**FOR LOCOMOTIVE CAB SIGNALS:**

ASPECT	DEFINITION
G/R	Proceed.
Y/Y	Proceed, preparing to stop at second block ahead. (Used on FEC Locomotives only)
Y/G	Proceed, approach next interlocking prepared to take diverging route.
R/G	Proceed through diverging route, observing authorized speed through turnout or crossover.
R/Y	Proceed through diverging route, preparing to stop at next block.
Y/R	Proceed, preparing to stop at next block.
R/	Restricting.
R/R	Stop.

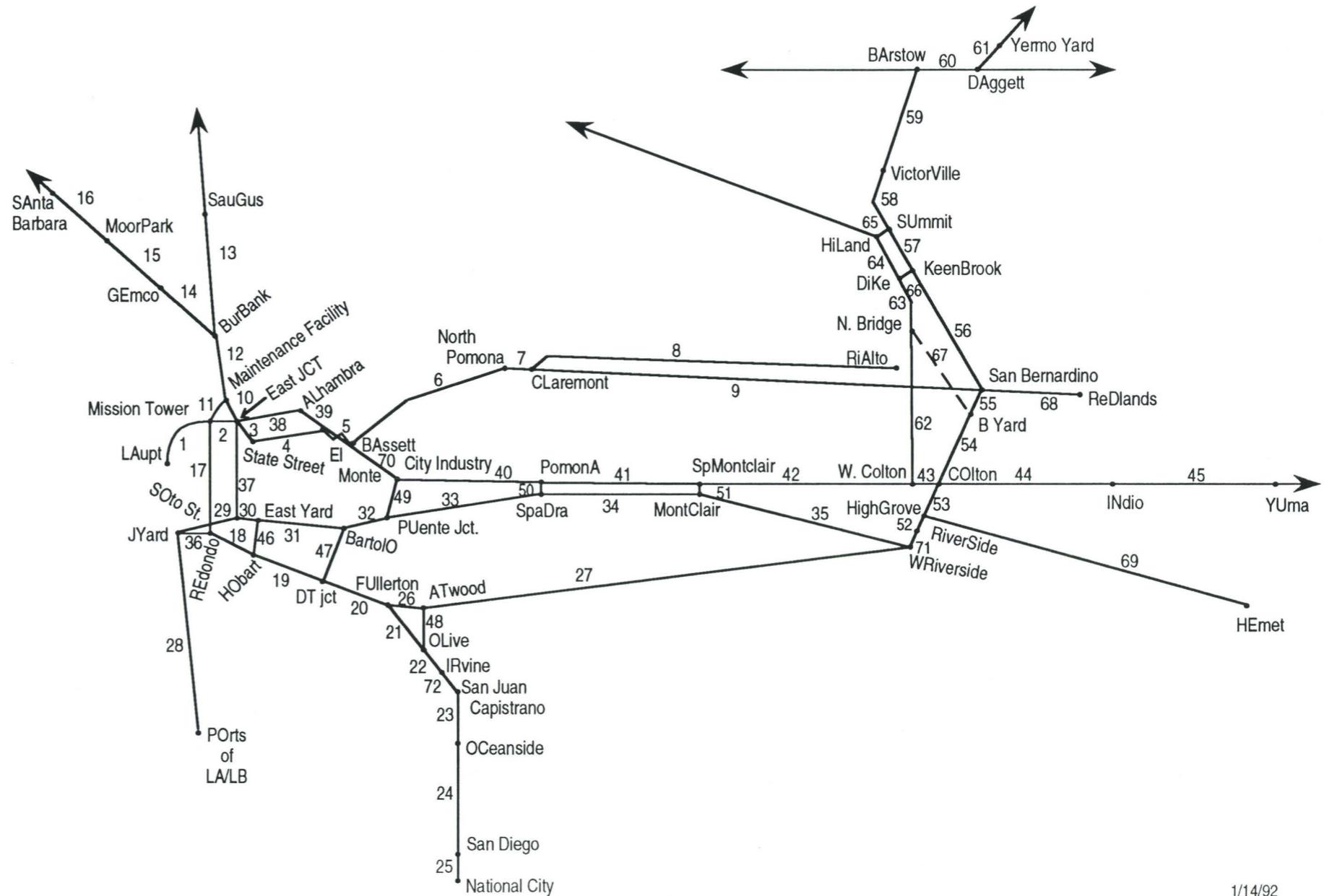
**TYPICAL ASPECT SEQUENCES:**

Sequences assume traffic from approach signal toward home signal. Second home signal would be the case of adjoining ends of the same siding with no intermediate block.

APPROACH SIGNAL	HOME SIGNAL	HOME SIGNAL
L(F)/Y	L(F)R	L(F)/R
L(F)/Y	R/L(F)	
G/R	G/R	G/R or Y/R
Y/Y	Y/R	R(F)/R or R/R
Y/G	R/G	G/R
Y/G	R/Y	R(F)/R or R/R
Y/R	R(F)/R	
Y/R	R/R	

**APPENDIX 6-1**

# SEGMENT MAP FOR THE ACCELERATED ELECTRIFICATION PROGRAM WITH SEGMENT NUMBERS



**LIST OF SEGMENTS FOR THE  
ACCELERATED ELECTRIFICATION PROGRAM**

<b>Segment /Route</b>	<b>Segment Number</b>	<b>From / To</b>
LA-MT 2,3,4,5,6,7	1	LAupt Mission Tower
MT-EJ 2,3,4,6	2	Mission Tower East Junction
EJ-SS 2	3	East Junction State Street
SS-EM 2	4	State Street El Monte
EM-BA 2,11	5	El Monte BASsett
BA-NP 2	6	BASsett North Pomona
NP-CL 2	7	North Pomona CLaremont
CL-RA 2	8	CLaremont RiAlto
CL-SB 2	9	CLaremont San Bernardino
EJ-MF 3,4	10	East Junction Maintenance Facility
MT-MF	11	Mission Tower Maintenance Facility
MF-BB 3,4	12	Maintenance Facility BurBank
BB-SG 4	13	BurBank SauGus
BB-GE 3	14	BurBank GEmco
GE-MP 3	15	GEmco MoorPark
MP-SA 3	16	MoorPark SANTA Barbara
MT-RE 5,7	17	Mission Tower REdondo
RE-HO 5,7,12	18	REdondo HObart

<b>Segment /Route</b>	<b>Segment Number</b>	<b>From / To</b>
HO-DT 5,7,12	19	HObart DT jct.
DT-FU 5,7,12	20	DT jct. FULLerton
FU-OL 5	21	FULLerton OLive
OL-IR 5	22	OLive IRvine
SJ-OC 5	23	San Juan Capistrano OCeanside
OC-SD 5	24	OCeanside San Diego
SD-NC 5	25	San Diego National City
FU-AT 7,12	26	FULLerton ATwood
AT-WR 7,12	27	ATwood W Riverside
PO-JY 1,11,12,13	28	POrts LA/LB J-Yard
JY-SO 1,11,13	29	J-Yard SOto Street
SO-EY 1,6,13	30	SOto Street East Yard
EY-BO 1,6,13	31	East Yard BartolO
BO-PU 1,6,13	32	BartolO PUente jct.
PU-SD 1,6,13	33	PUente jct. SpaDra
SD-MC 1,6,13	34	SpaDra MontClair
MC-WR 6,13	35	MontClair W. Riverside
JY-RE 12	36	J-Yard REdondo

**SEGMENT MAP FOR THE  
ACCELERATED ELECTRIFICATION PROGRAM**

<b>Segment /Route</b>	<b>Segment Number</b>	<b>From / To</b>
SO-EJ 6,11	37	SOto Street East Jct.
EJ-AL 11	38	East Jct. ALhambra
AL-EM 11	39	ALhambra El Monte
CI-PA 1,11	40	City of Industry PomonA
PA-SM 1,11	41	PomonA S. Montclair
SM-WC 1,11	42	S. Montclair West Colton
WC-CO 11	43	West Colton COLton
CO-IN 11	44	COLton INDio
IN-YU 11	45	INDio YUma
EY-HO 1	46	East Yard HObart
DT-BO 1	47	DT jct. BartolO
OL-AT 9	48	OLive ATwood
CI-PU 1	49	City of Industry PUente jct.
PA-SD 1	50	PomonA SpaDra
SM-MC 1	51	Sp. Montclair MontClair
RS-HG 8,9,12,13	52	RiverSide HighGrove
HG-CO 9,12,13	53	HighGrove COLton
CO-BY 9,12,13	54	COLton B-Yard

<b>Segmen /Route</b>	<b>Segment Number</b>	<b>From / To</b>
BY-SB 9,12,13	55	B-Yard San Bernardino
SB-KB 11	56	San Bernardino KeenBrook
KB-SU 1,12,13	57	KeenBrook SUMmit
SU-VV 1,12,13	58	SUMmit VictorVille
VV-BA 1,12,13	59	VictorVille BARstow
BA-DA 1,13	60	BARstow DAGget
DA-YY 1,13	61	DAGget Yermo Yard
WC-NB 1	62	West Colton North Bridge
NB-DK 1	63	North Bridge DiKe
DK-HL	64	DiKe HiLand
HL-SU	65	HiLand SUMmit
DK-KB 1	66	DiKe KeenBrook
BY-NB	67	B-Yard North Bridge
SB-RE 10	68	San Bernardino ReDlands
HG-HE 8	69	HighGrove HEmet
BA-CI 11	70	BASsett City of Industry
RS-WR 6,7,12,13	71	RiverSide WRiverside
IR-SJ 5	72	IRvine San Juan Capistrano

**Segment #1 Detailed Info for Segment - LA- MT Routes # 2, 3, 4, 5, 6, 7**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0.6	0.6	0.6	0.6	0.6
# of Main Tracks/Miles	3/1.8	3/1.8	3/1.8	4/2.4	4/2.4
Other Track Miles	3.4	3.4	3.4	3.8	3.8
Signal System	INT	INT			
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	-	-	-	-	-
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	-	-	-	-	-
Passenger Train Information					
Commuter Rail					
Trains/Day	0	36	82	160	160
Horsepower/Train	-	3,000	3,000	3,000	3,000
Trailing Tons/Train	-	280	350	420	420
Stops/Segment					
Amtrak					
Trains/Day	27	29	38	48	48
Horsepower/Train	3,200	3,200	3,200	3,200	3,200
Gross Tons/Train	475	475	475	475	475
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	5	5	5	5	5
# Units/Total HP	1-1,500	1-1,500	1-1,500	1-1,500	1-1,500
Other:					

**Segment #2 Detailed Info for Segment – MT-EJ Routes # 2,3,4,6**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0.3	0.3	0.3	0.3	0.3
# of Main Tracks/Miles	2/6	2/7	2/7	2/7	2/7
Other Tracks	0	0	0	0	0
Signal System	INT	INT	INT	INT	INT
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	-	-	-	-	-
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	-	-	-	-	-
Passenger Train Information					
Commuter Rail					
Trains/Day	0	30	70	110	110
Horsepower/Train	-	3,000	3,000	3,000	3,000
Trailing Tons/Train	-	280	350	420	420
Stops/Segment					
Amtrak					
Trains/Day	7	9	14	14	14
Horsepower/Train	3,500	3,500	3,500	3,500	3,500
Gross Tons/Train	555	555	555	555	555
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Total HP	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	5	5	5	5	5
# Units/HP	1-1,500	1-1,500	1-1,500	1-1,500	1-1,500
Other:					

**Segment #3 Detailed Info for Segment – E,J-SS Routes # 2**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0.2	0.2	0.2	0.2	0.2
# of Main Tracks/Miles	2/4	2/4	2/4	2/4	2/4
Other Tracks/Miles					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	0	10	28	38	38
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	1	1	1	1
Amtrak					
Trains/Day	1	1	NONE	NONE	NONE
Horsepower/Train	5,000	5,000	NONE	NONE	NONE
Gross Tons/Train	720	720	NONE	NONE	NONE
Stops/Segment	0	0	NONE	NONE	NONE0
Freight Train Information					
High Priority Trains/Day	3	NONE	NONE	NONE	NONE
Horsepower/Train	11,000	NONE	NONE	NONE	NONE
Gross Tons/Train	3,000	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #4 Detailed Info for Segment – SS-EM Routes # 2**

	1991	1993	1995	2000	2010
Segment Length (Miles)	11.4	11.4	11.4	11.4	11.4
# of Main Tracks/Miles	1/12.9	1/12.9	1/12.9	1/12.9	1/12.9
Other Tracks/Miles	0	0	0	0	0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.0	1.0	1.0	1.0	1.0
Length of Grade	2.0	2.0	2.0	2.0	2.0
Ruling Grade Westbound	1.2	1.2	1.2	1.2	1.2
Length of Grade	1.0	1.0	1.0	1.0	1.0
Passenger Train Information					
Commuter Rail					
Trains/Day	0	10	28	38	38
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	1	1	1	1
Amtrak					
Trains/Day	1	1	NONE	NONE	NONE
Horsepower/Train	5,000	5,000	NONE	NONE	NONE
Gross Tons/Train	720	720	NONE	NONE	NONE
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	3	NONE	NONE	NONE	NONE
Horsepower/Train	11,000	NONE	NONE	NONE	NONE
Gross Tons/Train	3,000	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #5 Detailed Info for Segment - EM-BA Routes # 2, 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	2.7	2.7	2.7	2.7	2.7
# of Main Tracks/Miles	1/2.7	1/2.7	2/5.4	2/5.4	2/5.4
Other Tracks/Miles	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0	0	2.0	2.0	2.0
Length of Grade	0	0	1.0	1.0	1.0
Ruling Grade Westbound	0	0	2.0	2.0	2.0
Length of Grade	0	0	1.0	1.0	1.0
Passenger Train Information					
Commuter Rail			SCRRA Track	SCRRA Track	SCRRA Track
Trains/Day	0	10	28	38	38
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	0	0	0	0
Amtrak			SP Track	SP Track	SP Track
Trains/Day	1	3	4	4	4
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	0	0	0	0	0
Freight Train Information			SP Track	SP Track	SP Track
High Priority Trains/Day	13	23	26	30	39
Horsepower/Train	10,885	11,000	11,500	12,000	12,500
Gross Tons/Train	3,500	4,600	5,200	5,800	6,000
General Trains/Day	11	11	12	12	12
Horsepower/Train	11,600	11,600	11,800	12,000	12,500
Gross Tons/Train	4,340	4,700	5,100	5,600	5,800
Unit Trains/Day	2	2	3	4	4
Horsepower/Train	11,000	13,850	14,000	14,300	14,600
Gross Tons/Train	6,400	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2-3,500 HP	2-3,500 HP	2-3,500 HP	2-3,500 HP	2-3,500 HP
Yard Jobs/Day	0	NONE	NONE	NONE	NONE
# Units/Job	0	NONE	NONE	NONE	NONE
Other:					

**Segment #6 Detailed Info for Segment – BA-NP Routes # 2**

	1991	1993	1995	2000	2010
Segment Length (Miles)	17.2	17.2	17.2	17.2	17.2
# of Main Tracks/MILES	1/17.2	1/24.8	1/24.8	1/24.8	1/24.8
Capital Expense					
Signal System	NONE	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.5	1.5	1.5	1.5	1.5
Length of Grade	4	4	4	4	4
Ruling Grade Westbound	-1.5	-1.5	-1.5	-1.5	-1.5
Length of Grade	4	4	4	4	4
Passenger Train Information					
Commuter Rail					
Trains/Day	0	10	28	38	38
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	3	3	3	3
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	1	NONE	NONE	NONE	NONE
# Units/Job	2-3,500 HP	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #7 Detailed Info for Segment – NP-CL Routes # 2**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.2	1.2	1.2	1.2	1.2
# of Main Tracks/Miles	1/1.2	1/1.2	1/1.2	2/2.4	2/2.4
Other Tracks/Miles	.5	.5	.5	.5	.5
Signal System	ABS/TWC	ABS/TWC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0.7	0.7	0.7	0.7	0.7
Length of Grade	1.0	1.0	1.0	1.0	1.0
Ruling Grade Westbound	-0.7	-0.7	-0.7	-0.7	-0.7
Length of Grade	1.0	1.0	1.0	1.0	1.0
Passenger Train Information					
Commuter Rail					
Trains/Day	0	10	28	38	38
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	1	1	1	1
Amtrak					
Trains/Day	2	2	NONE	NONE	NONE
Horsepower/Train	5,000	5,000	NONE	NONE	NONE
Gross Tons/Train	720	720	NONE	NONE	NONE
Stops/Segment	1	1	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	*	*	NONE	NONE	NONE
Horsepower/Train	*	*	NONE	NONE	NONE
Gross Tons/Train	*	*	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	1	1	1	1	1
# Units/HP/Job	2/4,500	2/4,500	2/4,500	2/4,500	2/4,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/HP/Job	NONE	NONE	NONE	NONE	NONE
Other:					
* These trains are included in					
the San Bernardino					
Subdivision (Fullerton) train					
tabulations.					

**Segment #8 Detailed Info for Segment – CL-RA Routes #**

	1991	1993	1995	2000	2010
Segment Length (Miles)	19.6	19.6	19.6	19.6	19.6
Number of Main Tracks	1	1			
Capital Expense					
Signal System	NONE	?			
Capital Expense					
Ruling Grade Eastbound	1.5	1.5	1.5	1.5	1.5
Length of Grade	2	2	2	2	2
Ruling Grade Westbound	-1.5	-1.5	-1.5	-1.5	-1.5
Length of Grade	2	2	2	2	2
Passenger Train Information					
Commuter Rail					
Trains/Day	0	10	28	38	38
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0				
Amtrak					
Trains/Day	0	0	0	0	0
Horsepower/Train	0	0	0	0	0
Gross Tons/Train	0	0	0	0	0
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	2/WEEK	NONE	NONE	NONE	NONE
# Units/Total HP	1,800	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Total HP	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #9 Detailed Info for Segment – CL-SB Routes # 2**

	1991	1993	1995	2000	2010
Segment Length (Miles)	23.2	23.2	23.2	23.2	23.2
# of Main Tracks/Miles	1/27.7	1/27.7	1/27.7	1/27.7	1/27.7
Other Tracks/Miles	0.0	0.0	1.0	1.0	1.0
Signal System	ABS/TWC	ABS/TWC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0.6	0.6	0.6	0.6	0.6
Length of Grade	3.0	3.0	3.0	3.0	3.0
Ruling Grade Westbound	1.0	1.0	1.0	1.0	1.0
Length of Grade	3.0	3.0	3.0	3.0	3.0
Passenger Train Information					
Commuter Rail					
Trains/Day	0	10	28	38	38
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	6	6	6	6
Amtrak					
Trains/Day	2	NONE	NONE	NONE	NONE
Horsepower/Train	5,000	NONE	NONE	NONE	NONE
Gross Tons/Train	720	NONE	NONE	NONE	NONE
Stops/Segment	0	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	*	NONE	NONE	NONE	NONE
Horsepower/Train	*	NONE	NONE	NONE	NONE
Gross Tons/Train	*	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	2/4,800	2/4,800	2/4,800	2/4,800	2/4,800
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #10 Detailed Info for Segment - E,J-MF Routes # 3,4**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.2	1.2	1.2	1.2	1.2
# of Main Tracks/Miles	2/2.4	2/2.4	2/2.4	2/2.4	2/2.4
Other Tracks/Miles	0.0	0.0	0.0	0.0	0.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	0	14	32	62	62
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	0	0	0	0
Amtrak					
Trains/Day	6	8	12	12	12
Horsepower/Train	3,250	3,250	3,250	3,250	3,250
Gross Tons/Train	575	575	575	575	575
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	8	8	8	8	8
Horsepower/Train	9,850	9,850	9,850	9,850	9,850
Gross Tons/Train	2,315	2,315	2,315	2,315	2,315
General Trains/Day	7	7	7	7	7
Horsepower/Train	9,515	9,515	9,515	9,515	9,515
Gross Tons/Train	2,930	2,930	2,930	2,930	2,930
Unit Trains/Day	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
Horsepower/Train	13,200	13,200	13,200	13,200	13,200
Gross Tons/Train	10,218	10,218	10,218	10,218	10,218
Misc. Train Activity					
Industrial Jobs/Day	4	4	4	4	4
# Units/Job	2/3,000	2/3,000	2/3,000	2/3,000	2/3,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #11 Detailed Info for Segment – MT-MF Routes #**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.2	1.2	1.2	1.2	1.2
Number of Main Tracks	1/2.0	2/2.4	2/2.4	2/2.4	2/2.4
Capital Expense					
Signal System	ABS	ABS	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail		Non-Revenue Moves To/From Maintenance Facility			
Trains/Day	0	14	32	62	62
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	0	0	0	0
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #12 Detailed Info for Segment - MF-BB Routes # 3,4**

	1991	1993	1995	2000	2010
Segment Length (Miles)	9.1	9.1	9.1	9.1	9.1
# of Main Tracks/Miles	2/18.2	2/20.0	2/20.0	2/20.0	2/20.0
Other Tracks/Miles	5.0	5.0	5.0	5.0	5.0
Signal System	ABS	ABS	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-0.2	-0.2	-0.2	-0.2	-0.2
Length of Grade	6	6	6	6	6
Ruling Grade Westbound	0.2	0.2	0.2	0.2	0.2
Length of Grade	6	6	6	6	6
Passenger Train Information					
Commuter Rail					
Trains/Day	0	14	32	62	62
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	2	2	2	2
Amtrak					
Trains/Day	6	8	12	12	12
Horsepower/Train	3,250	3,250	3,250	3,250	3,250
Gross Tons/Train	575	575	575	575	575
Stops/Segment	2	2	2	2	2
Freight Train Information					
High Priority Trains/Day	8	8	8	8	8
Horsepower/Train	9,850	9,850	9,850	9,850	9,850
Gross Tons/Train	2,315	2,315	2,315	2,315	2,315
General Trains/Day	7	7	7	7	7
Horsepower/Train	9,515	9,515	9,515	9,515	9,515
Gross Tons/Train	2,930	2,930	2,930	2,930	2,930
Unit Trains/Day	2	2	2	2	2
Horsepower/Train	13,200	13,200	13,200	13,200	13,200
Gross Tons/Train	10,218	10,218	10,218	10,218	10,218
Misc. Train Activity					
Industrial Jobs/Day	4	4	4	4	4
# Units/Job	3/3,900	3/3,900	3/3,900	3/3,900	3/3,900
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #13 Detailed Info for Segment – BB-SG Routes # 4**

	1991	1993	1995	2000	2010
Segment Length (Miles)	23.7	23.7	23.7	23.7	23.7
# of Main Tracks/Miles	1/29.6	1/29.6	1/29.6	1/29.6	1/29.6
Other Tracks/Miles	1.0	1.0	1.0	1.0	1.0
Signal System	ABS/DTC	ABS/DTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	2.0	2.0	2.0	2.0	2.0
Length of Grade	2	2	2	2	2
Ruling Grade Westbound	1.3	1.3	1.3	1.3	1.3
Length of Grade	8	8	8	8	8
Passenger Train Information					
Commuter Rail					
Trains/Day	0	6	8	24	24
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	2	2	2	2
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	4	4	4	4	4
Horsepower/Train	11,250	11,250	11,250	11,250	11,250
Gross Tons/Train	2,360	2,360	2,360	2,360	2,360
General Trains/Day	1	1	1	1	1
Horsepower/Train	13,800	13,800	13,800	13,800	13,800
Gross Tons/Train	3,335	3,335	3,335	3,335	3,335
Unit Trains/Day	2	2	2	2	2
Horsepower/Train	13,200	13,200	13,200	13,200	13,200
Gross Tons/Train	7,100	7,100	7,100	7,100	7,100
Misc. Train Activity					
Industrial Jobs/Day	1	1	1	1	1
# Units/Job	2/5,500	2/5,500	2/5,500	2/5,500	2/5,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #14 Detailed Info for Segment – BB-GE Routes # 3**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.3	7.3	7.3	7.3	7.3
# of Main Tracks/Miles	1/8.5	1/8.5	2/14.6	2/14.6	2/14.6
Other Track Miles					
Signal System	ABS/DTC	ABS/DTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-0.4	-0.4	-0.4	-0.4	-0.4
Length of Grade	3	3	3	3	3
Ruling Grade Westbound	0.4	0.4	0.4	0.4	0.4
Length of Grade	3	3	3	3	3
Passenger Train Information					
Commuter Rail					
Trains/Day	0	8	24	38	38
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	1	1	1	1
Amtrak					
Trains/Day	6	8	12	12	12
Horsepower/Train	3,250	3,250	3,250	3,250	3,250
Gross Tons/Train	575	575	575	575	575
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	4	4	4	4	4
Horsepower/Train	8,450	8,450	8,450	8,450	8,450
Gross Tons/Train	2,275	2,275	2,275	2,275	2,275
General Trains/Day	6	6	6	6	6
Horsepower/Train	8,800	8,800	8,800	8,800	8,800
Gross Tons/Train	2,860	2,860	2,860	2,860	2,860
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	7	7	4	4	4
# Units/Job	2/3,000	2/3,000	2/3,000	2/3,000	2/3,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #15 Detailed Info for Segment – GE-MP Routes # 3**

	1991	1993	1995	2000	2010
Segment Length (Miles)	29.0	29.0	29.0	29.0	29.0
# of Main Tracks/Miles	1/35.4	1/35.4	1/35.4	1/35.4	1/35.4
Other Tracks/Miles	.8	.8	.8	.8	.8
Signal System	ABS/DTC	ABS/DTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.0	1.0	1.0	1.0	1.0
Length of Grade	4	4	4	4	4
Ruling Grade Westbound	0.8	0.8	0.8	0.8	0.8
Length of Grade	3	3	3	3	3
Passenger Train Information					
Commuter Rail					
Trains/Day	0	8	24	38	38
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	0	0	0	0
Amtrak					
Trains/Day	6	8	12	12	12
Horsepower/Train	3,250	3,250	3,250	3,250	3,250
Gross Tons/Train	575	575	575	575	575
Stops/Segment	2	2	2	2	2
Freight Train Information					
High Priority Trains/Day	4	4	4	4	4
Horsepower/Train	8,450	8,450	8,450	8,450	8,450
Gross Tons/Train	2,275	2,275	2,275	2,275	2,275
General Trains/Day	4	4	4	4	4
Horsepower/Train	11,200	11,200	11,200	11,200	11,200
Gross Tons/Train	3,290	3,290	3,290	3,290	3,290
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	1	1	1	1	1
# Units/Job	2/4,500	2/4,500	2/4,500	2/4,500	2/4,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #16 Detailed Info for Segment – MP-SA Routes # 3**

	1991	1993	1995	2000	2010
Segment Length (Miles)	56.3	56.3	56.3	56.3	56.3
# of Main Tracks/Miles	1/64.0	1/64.0	1/64.0	1/64.0	1/64.0
Capital Expense					
Signal System	ABS/DTC	ABS/DTC	ABS/DTC	ABS/DTC	
Capital Expense					
Ruling Grade Eastbound	.6	.6	.6	.6	.6
Length of Grade	3	3	3	3	3
Ruling Grade Westbound	.6	.6	.6	.6	.6
Length of Grade	2	2	2	2	2
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	6	8	12	12	12
Horsepower/Train	3,250	3,250	3,250	3,250	3,250
Gross Tons/Train	575	575	575	575	575
Stops/Segment	2	2	2	2	2
Freight Train Information					
High Priority Trains/Day	4	4	4	4	4
Horsepower/Train	8,450	8,450	8,450	8,450	8,450
Gross Tons/Train	2,275	2,275	2,275	2,275	2,275
General Trains/Day	4	4	4	4	4
Horsepower/Train	11,200	11,200	11,200	11,200	11,200
Gross Tons/Train	3,290	3,290	3,290	3,290	3,290
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #17 Detailed Info for Segment – MT-RE Routes # 5, 7**

	1991	1993	1995	2000	2010
Segment Length (Miles)	3.2	2.6	2.6	2.6	2.6
# of Main Tracks/Miles	1/3.2	2/6.4	2/6.4	2/6.4	2/6.4
Other Tracks/Miles	4.0	4.0	5.0	5.0	5.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-0.4	-0.4	-0.4	-0.4	-0.4
Length of Grade	2.6	2.6	2.6	2.6	2.6
Ruling Grade Westbound	.4	.4	.4	.4	.4
Length of Grade	2.6	2.6	2.6	2.6	2.6
Passenger Train Information					
Commuter Rail					
Trains/Day	2	6	8	12	12
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Trailing Tons/Train	300	280	350	420	420
Stops/Segment	0	0	0	0	0
Amtrak					
Trains/Day	18	18	22	32	32
Horsepower/Train	3,600	3,600	3,600	3,600	3,600
Gross Tons/Train	500	500	500	500	500
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	1/2,000	1/2,000	1/2,000	1/2,000	1/2,000
Yard Jobs/Day	5	5	5	5	5
# Units/HP/Job	1/1,500	1/1,500	1/1,500	1/1,500	1/1,500
Other:					

**Segment #18 Detailed Info for Segment - RE-HO Routes # 5, 7, 12**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.3	1.3	1.3	1.3	1.3
# of Main Tracks/Miles	2/2.6	2/2.6	2/2.6	2/2.6	2/2.6
Other Tracks/Miles					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-0.7	-0.7	-0.7	-0.7	-0.7
Length of Grade	1	1	1	1	1
Ruling Grade Westbound	0.7	0.7	0.7	0.7	0.7
Length of Grade	1	1	1	1	1
Passenger Train Information					
Commuter Rail					
Trains/Day	2	6	8	12	12
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Trailing Tons/Train	300	280	350	420	420
Stops/Segment	0	0	0	0	0
Amtrak					
Trains/Day	18	18	22	32	32
Horsepower/Train	3,600	3,600	3,600	3,600	3,600
Gross Tons/Train	500	500	500	500	500
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	1	2	3	5	10
Horsepower/Train	12,500	12,600	12,800	13,000	13,500
Gross Tons/Train	3,500	3,800	4,200	4,600	5,000
General Trains/Day	2	2	2	2	2
Horsepower/Train	14,000	14,000	14,000	14,000	14,000
Gross Tons/Train	4,000	4,200	4,400	4,600	4,800
Unit Trains/Day	NONE	NONE	1	2	4
Horsepower/Train	NONE	NONE	13,500	14,000	14,500
Gross Tons/Train	NONE	NONE	7,500	7,600	7,700
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2/4,000	2/4,000	2/4,000	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #19 Detailed Info for Segment - HO-DT Routes # 5, 7, 12**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.6	7.6	7.6	7.6	7.6
# of Main Tracks/Miles	2/17.2	2/17.2	2/17.2	3/22.8	3/22.8
Other Tracks/Miles	5.0	5.0	5.0	5.0	5.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	2	6	8	12	12
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Trailing Tons/Train	300	280	350	420	420
Stops/Segment	0	0	0	0	0
Amtrak					
Trains/Day	18	18	22	32	32
Horsepower/Train	3,600	3,600	3,600	3,600	3,600
Gross Tons/Train	500	500	500	500	500
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	17	19	21	23	28
Horsepower/Train	14,100	14,500	14,700	15,000	16,000
Gross Tons/Train	3,500	3,800	4,200	4,600	5,000
General Trains/Day	6	6	6	6	6
Horsepower/Train	11,700	11,700	12,000	12,500	13,000
Gross Tons/Train	3,800	4,000	4,100	4,400	5,000
Unit Trains/Day	NONE	NONE	1	2	4
Horsepower/Train	NONE	NONE	11,000	11,500	12,000
Gross Tons/Train	NONE	NONE	7,000	7,500	7,500
Misc. Train Activity					
Industrial Jobs/Day	5	5	5	5	5
# Units/HP/Job	2-4,000	2-4,000	2-4,000	2-4,000	2-4,000
Yard Jobs/Day	11	11	11	11	11
# Units/HP/Job	1/2,000	1/2,000	1/2,000	1/2,000	1/2,000
Other:					

**Segment #20 Detailed Info for Segment - DT-FU Routes # 5, 7, 12**

	1991	1993	1995	2000	2010
Segment Length (Miles)	12.9	12.9	12.9	12.9	12.9
# of Main Tracks/Miles	2/25.8	2/27.8	2/27.8	2/32.8	3/38.7
Other Tracks/Miles	3.0	3.0	3.0	3.0	3.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.4	.4	.4	.4	.4
Length of Grade	1	1	1	1	1
Ruling Grade Westbound	.7	.7	.7	.7	.7
Length of Grade	2	2	2	2	2
Passenger Train Information					
Commuter Rail					
Trains/Day	2	6	8	12	12
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Trailing Tons/Train	300	280	350	420	420
Stops/Segment	1	2	2	3	3
Amtrak					
Trains/Day	18	18	22	32	32
Horsepower/Train	3,600	3,600	3,600	3,600	3,600
Gross Tons/Train	500	500	500	500	500
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	17	19	21	23	28
Horsepower/Train	14,100	14,500	14,700	15,000	16,000
Gross Tons/Train	3,500	3,800	4,200	4,600	5,000
General Trains/Day	6	6	6	6	6
Horsepower/Train	11,700	11,700	12,000	12,500	13,000
Gross Tons/Train	3,800	4,000	4,100	4,400	5,000
Unit Trains/Day	NONE	NONE	1	2	4
Horsepower/Train	NONE	NONE	11,000	11,500	12,000
Gross Tons/Train	NONE	NONE	7,000	7,500	7,500
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	2/3,500	2/3,500	2/3,500	2/3,500	2/3,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #21 Detailed Info for Segment – FU-OL Routes # 5**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.9	7.9	7.9	7.9	7.9
# of Main Tracks/Miles	1/10.4	1/10.4	1/10.4	2/16.0	2/16.0
Other Tracks/Miles	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	2	6	8	12	12
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Trailing Tons/Train	300	280	350	420	420
Stops/Segment	2	2	2	3	3
Amtrak					
Trains/Day	16	16	20	30	30
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Gross Tons/Train	500	500	500	500	500
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	2/3,500	2/3,500	2/3,500	2/3,500	2/3,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #22 Detailed Info for Segment – OL-N Routes # 5**

	1991	1993	1995	2000	2010
Segment Length (Miles)	6.2	6.2	6.2	6.2	6.2
# of Main Tracks/Miles	1/10.2	1/10.2	1/10.2	1/10.2	1/10.2
Other Tracks/Miles	0.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.2	1.2	1.2	1.2	1.2
Length of Grade	3	3	3	3	3
Ruling Grade Westbound	1.2	1.2	1.2	1.2	1.2
Length of Grade	4	4	4	4	4
Passenger Train Information					
Commuter Rail					
Trains/Day	2	6	8	12	12
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Trailing Tons/Train	300	280	350	420	420
Stops/Segment	2	2	2	3	3
Amtrak					
Trains/Day	16	16	20	30	30
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Gross Tons/Train	500	500	500	500	500
Stops/Segment	2	2	2	2	2
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	2	2	3	4	4
Horsepower/Train	15,000	15,000	15,000	16,000	16,000
Gross Tons/Train	3,250	3,250	3,500	4,000	4,000
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	2/3,500	2/3,500	2/3,500	2/3,500	2/3,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #23 Detailed Info for Segment – SJ-OC Routes # 5**

	1991	1993	1995	2000	2010
Segment Length (Miles)	29.2	29.2	29.2	29.2	29.2
# of Main Tracks/Miles	1/32.9	1/32.9	1/32.9	1/32.9	1/32.9
Other Track Miles	2.0	2.0	2.0	4.0	4.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.0	1.0	1.0	1.0	1.0
Length of Grade	2	2	2	2	2
Ruling Grade Westbound	1.2	1.2	1.2	1.2	1.2
Length of Grade	3	3	3	3	3
Passenger Train Information					
Commuter Rail					
Trains/Day	0	6	8	12	12
Horsepower/Train	0	3,000	3,000	3,000	3,000
Trailing Tons/Train	0	280	350	420	420
Stops/Segment	0	1	1	1	1
Amtrak					
Trains/Day	16	16	20	30	30
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Gross Tons/Train	500	500	500	500	500
Stops/Segment	2	2	2	2	2
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	2	2	3	4	4
Horsepower/Train	15,000	15,000	15,500	16,000	16,000
Gross Tons/Train	3,250	3,250	3,500	4,000	4,000
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity	NONE	NONE	NONE	NONE	NONE
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job					
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #24 Detailed Info for Segment – OC-SD Routes # 5**

	1991	1993	1995	2000	2010
Segment Length (Miles)	41.1	41.1	41.1	41.1	41.1
# of Main Tracks/Miles	1/57.3	1/57.3	1/57.3	1/57.3	1/57.3
Other Track Miles	6.0	6.0	6.0	6.0	6.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	2.2	2.2	2.2	2.2	2.2
Length of Grade	4	4	4	4	4
Ruling Grade Westbound	1.8	1.8	1.8	1.8	1.8
Length of Grade	2	2	2	2	2
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	16	16	20	30	30
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Gross Tons/Train	500	500	500	500	500
Stops/Segment	2	2	2	2	2
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	2	2	3	4	4
Horsepower/Train	15,000	15,000	15,500	16,000	16,000
Gross Tons/Train	3,250	3,250	3,500	4,000	4,000
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity	NONE	NONE	NONE	NONE	NONE
Industrial Jobs/Day	1	1	1	1	1
# Units/HP/Job	1/2,500	1/2,500	1/2,500	1/2,500	1/2,500
Yard Jobs/Day					
# Units/Job					
Other:					

**Segment #25 Detailed Info for Segment – SD-NC Routes # 5**

	1991	1993	1995	2000	2010
Segment Length (Miles)	5.6	5.6	5.6	5.6	5.6
# of Main Tracks/Miles	1/7.9	1/7.9	1/7.9	1/7.9	1/7.9
Other Tracks/Miles	5.0	5.0	5.0	5.0	5.0
Signal System	TWS	TWS	TWS	TWS	TWS
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	2	2	3	4	4
Horsepower/Train	15,000	15,000	15,500	16,000	16,000
Gross Tons/Train	3,250	3,250	3,500	4,000	4,000
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	2	NONE	NONE	NONE	NONE
# Units/HP/Job	1.5/2,500	1.5/2,500	1.5/2,500	1.5/2,500	1.5/2,500
Other:					

**Segment #26 Detailed Info for Segment – FU-AT Routes # 7, 12**

	1991	1993	1995	2000	2010
Segment Length (Miles)	5.4	5.4	5.4	5.4	5.4
# of Main Tracks/Miles	2/10.8	2/10.8			
Other Tracks/Miles					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.8	.8	.8	.8	.8
Length of Grade	1	1	1	1	1
Ruling Grade Westbound	-.8	-.8	-.8	-.8	-.8
Length of Grade	1	1	1	1	1
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	4	38	38
Horsepower/Train	NONE	NONE	3,000	3,000	3,000
Trailing Tons/Train	NONE	NONE	280	420	420
Stops/Segment	NONE	NONE	0	0	0
Amtrak					
Trains/Day	2	2	2	2	2
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	450	450	450	450	450
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	17	19	21	23	28
Horsepower/Train	14,100	14,500	14,700	15,000	16,000
Gross Tons/Train	3,500	3,800	4,200	4,600	5,000
General Trains/Day	6	6	6	6	6
Horsepower/Train	11,700	11,700	12,000	12,500	13,000
Gross Tons/Train	3,800	4,000	4,100	4,400	5,000
Unit Trains/Day	NONE	NONE	1	2	4
Horsepower/Train	NONE	NONE	11,000	11,500	12,000
Gross Tons/Train	NONE	NONE	7,000	7,500	7,500
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	2/3,500	2/3,500	2/3,500	2/3,500	2/3,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #27 Detailed Info for Segment - AT-WR Routes # 7, 12**

	1991	1993	1995	2000	2010
Segment Length (Miles)	30.0	30.0	30.0	30.0	30.0
# of Main Tracks/Miles	1/40.3	1/40.3	1/40.3	1/40.3	1/40.3
Other Tracks/Miles					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.0	1.0	1.0	1.0	1.0
Length of Grade	4	4	4	4	4
Ruling Grade Westbound	1.2	1.2	1.2	1.2	1.2
Length of Grade	1	1	1	1	1
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	4	38	38
Horsepower/Train	NONE	NONE	3,000	3,000	3,000
Trailing Tons/Train	NONE	NONE	280	280	280
Stops/Segment	NONE	NONE	2	2	2
Amtrak					
Trains/Day	2	2	2	2	2
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	450	450	450	450	450
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	17	19	21	23	28
Horsepower/Train	14,100	14,500	14,700	15,000	16,000
Gross Tons/Train	3,500	3,800	4,200	4,600	5,000
General Trains/Day	8	8	8	8	8
Horsepower/Train	12,512	12,512	13,000	13,000	13,500
Gross Tons/Train	3,800	4,000	4,100	4,300	4,800
Unit Trains/Day	NONE	NONE	1	2	4
Horsepower/Train	NONE	NONE	11,000	11,500	12,000
Gross Tons/Train	NONE	NONE	7,000	7,500	7,500
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	2/3,500	2/3,500	2/3,500	2/3,500	2/3,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #28 Detailed Info for Segment - PO-JY Routes # 1, 11, 12, 13**

	<b>1991</b>	<b>1993</b>	<b>1995</b>	<b>2000</b>	<b>2010</b>
Segment Length (Miles)	24.4	24.4	24.4	24.4	24.4
# of Main Tracks/Miles	2/48.8	2/48.8	2/48.8	2/48.8	2/48.8
Other Tracks/Miles	5.0	5.0	5.0	5.0	5.0
Signal System	TWS	TWS	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound					
Length of Grade					
Ruling Grade Westbound					
Length of Grade					
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information	ATSF,SP,UP=Total	ATSF,SP,UP=Total	ATSF,SP,UP=Total	ATSF,SP,UP=Total	ATSF,SP,UP=Total
High Priority Trains/Day	1, 12, 1=14	2, 15, 3=20	3, 18, 5=26	5, 22, 7=34	10, 31, 11=52
Horsepower/Train	11,400	11,500	11,800	12,200	12,600
Gross Tons/Train	3,700	4,200	4,700	5,200	5,500
General Trains/Day	1, 2, 0=3	1, 2, 0=3	1, 3, 0=4	1, 3, 0=4	1, 3, 0=4
Horsepower/Train	11,600	11,600	11,700	12,000	12,500
Gross Tons/Train	4,300	4,400	4,500	4,600	4,800
Unit Trains/Day	0, 3, 2=5	0, 3, 3=6	1, 4, 4=9	2, 6, 6=14	4, 6, 7=17
Horsepower/Train	13,000	13,000	13,500	14,000	14,500
Gross Tons/Train	7,600	7,500	7,500	7,600	7,700
Misc. Train Activity					
Industrial Jobs/Day	A-3 + S-9 + U-4				
# Units/Job	A-2/3,500 + S-1/2,000 + U-2/4,000				
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #29 Detailed Info for Segment - JY-SO Routes # 1, 11, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.5	1.5	1.5	1.5	1.5
# of Main Tracks/Miles	1/1.5	1/1.5	2/3.0	2/3.0	2/3.0
Capital Expense	0.0				
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	9	12	15	19	28
Horsepower/Train	11,400	11,500	11,800	12,200	12,600
Gross Tons/Train	3,700	4,200	4,700	5,200	5,800
General Trains/Day	3	3	4	4	4
Horsepower/Train	10,730	10,700	11,000	11,400	11,800
Gross Tons/Train	4,300	4,400	4,500	4,600	4,800
Unit Trains/Day	2	2	3	4	4
Horsepower/Train	13,800	13,800	14,000	14,300	14,600
Gross Tons/Train	7,600	7,700	7,500	7,700	7,900
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	4	4
# Units/Job	NONE	NONE	NONE	2/4,000	2/4,000
Yard Jobs/Day	3	3	3	3	3
# Units/Job	1/1,000	1/1,000	1/1,000	1/1,000	1/1,000
Other:					

**Segment #30 Detailed Info for Segment - SO-EY Routes # 1, 6, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.0	1.0	1.0	1.0	1.0
Number of Main Tracks	2/2.0	2/2.0	2/2.0	2/2.0	2/2.0
Capital Expense	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-0.4	-0.4	-0.4	-0.4	-0.4
Length of Grade (miles)	2.0	2.0	2.0	2.0	2.0
Ruling Grade Westbound	+0.4	+0.4	+0.4	+0.4	+0.4
Length of Grade (miles)	2.0	2.0	2.0	2.0	2.0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	6	10	10	10
Horsepower/Train	NONE	3000	3000	3000	3000
Trailing Tons/Train	NONE	280	350	420	420
Stops/Segment	NONE	0	0	0	0
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	7	11
Horsepower/Train	NONE	NONE	NONE	12,000	12,600
Gross Tons/Train	NONE	NONE	NONE	5,200	5,200
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	6	7
Horsepower/Train	NONE	NONE	NONE	14,000	14,500
Gross Tons/Train	NONE	NONE	NONE	7,500	7,700
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	4	4
# Units/Job	NONE	NONE	NONE	2/4,000	2/4,000
Yard Jobs/Day	3	3	3	3	3
# Units/Job	1/1,200	1/1,200	1/1,200	1/1,200	1/1,200
Other:					

**Segment #31 Detailed Info for Segment – EY-BO Routes # 1,6, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	8.4	8.4	8.4	8.4	8.4
# of Main Tracks/Miles	1/14.9	1/14.9	2/16.8	2/16.8	2/16.8
Other Track Miles	10.0	10.0	10.0	10.0	10.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0.35	0.35	0.35	0.35	0.35
Length of Grade	2.0	2.0	2.0	2.0	2.0
Ruling Grade Westbound	-0.35	-0.35	-0.35	-0.35	-0.35
Length of Grade	2.0	2.0	2.0	2.0	2.0
Passenger Train Information					
Commuter Rail					
Trains/Day	0	6	10	10	10
Horsepower/Train	---	3,000	3,000	3,000	3,000
Trailing Tons/Train	---	280	350	420	420
Stops/Segment	---	1	1	1	1
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	11	13	14	18	22
Horsepower/Train	12,400	13,000	13,000	13,500	14,000
Gross Tons/Train	4,120	4,600	4,700	5,000	6,000
General Trains/Day	5	5	5	6	7
Horsepower/Train	11,100	11,300	11,500	12,000	13,000
Gross Tons/Train	3,665	4,000	4,400	4,800	5,500
Unit Trains/Day	2	3	4	6	8
Horsepower/Train	9,500	10,000	10,500	11,000	11,500
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2/4,000	2/4,000	2/4,000	2/4,000	2/4,000
Yard Jobs/Day	14	14	14	14	14
# Units/HP/Job	1/1,200	1/1,200	1/1,200	1/1,200	1/1,200
Other:					

**Segment #32 Detailed Info for Segment - BU-PU Routes # 1, 6, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	6.4	6.4	6.4	6.4	6.4
# of Main Tracks/Miles	1	2/12.8	2/12.8	2/12.8	2/12.8
Other Tracks/Miles	0	1.0			
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	+0.4	+0.4	+0.4	+0.4	+0.4
Length of Grade	6.4	6.4	6.4	6.4	6.4
Ruling Grade Westbound	-0.4	-0.4	-0.4	-0.4	-0.4
Length of Grade	6.4	6.4	6.4	6.4	6.4
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	6	10	10	10
Horsepower/Train	NONE	3,000	3,000	3,000	3,000
Trailing Tons/Train	NONE	280	350	420	420
Stops/Segment	NONE	0	0	0	0
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	16	13	14	18	22
Horsepower/Train	12,000	13,000	13,000	13,500	14,000
Gross Tons/Train	3,900	4,600	4,700	5,000	6,000
General Trains/Day	7	5	5	6	7
Horsepower/Train	12,000	11,300	11,500	12,000	13,000
Gross Tons/Train	3,700	4,000	4,400	4,800	5,500
Unit Trains/Day	2	3	4	6	8
Horsepower/Train	9,500	10,000	10,500	11,000	11,500
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2/4,000	2/4,000	2/4,000	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #33 Detailed Info for Segment - PU-SD Routes # 1, 6, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	11.7	11.7	11.7	11.7	11.7
Number of Main Tracks	1/16.0	1/16.0			
Capital Expense	5.0	5.0	5.0	5.0	5.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	+0.85	+0.85	+0.85	+0.85	+0.85
Length of Grade	8.0	8.0	8.0	8.0	8.0
Ruling Grade Westbound	-0.85	-0.85	-0.85	-0.85	-0.85
Length of Grade	8.0	8.0	8.0	8.0	8.0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	6	10	10	10
Horsepower/Train	NONE	3,000	3,000	3,000	3,000
Trailing Tons/Train	NONE	280	350	420	420
Stops/Segment	NONE	1	1	1	1
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	11	13	14	18	22
Horsepower/Train	12,400	13,000	13,000	13,500	14,000
Gross Tons/Train	4,215	4,600	4,700	5,000	6,000
General Trains/Day	5	5	5	6	7
Horsepower/Train	11,100	11,300	11,500	12,000	13,000
Gross Tons/Train	4,100	4,200	4,400	4,800	5,500
Unit Trains/Day	1	2	4	6	8
Horsepower/Train	9,500	11,000	10,500	11,000	11,500
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	3	3	3	3	3
# Units/Job	2/4,000	2/4,000	2/4,000	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #34 Detailed Info for Segment - SD-MC Routes # 1, 6, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.2	7.2	7.2	7.2	7.2
Number of Main Tracks	1/12.4	1/12.4	1/12.4	1/12.4	1/12.4
Capital Expense	2.0	2.0	2.0	2.0	2.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	+0.4	+0.4	+0.4	+0.4	+0.4
Length of Grade	3.0	3.0	3.0	3.0	3.0
Ruling Grade Westbound	-0.4	-0.4	-0.4	-0.4	-0.4
Length of Grade	3.0	3.0	3.0	3.0	3.0
Passenger Train Information					
Commuter Rail					
Trains/Day	0	6	10	10	10
Horsepower/Train	---	3000	3000	3000	3000
Trailing Tons/Train	---	280	350	420	420
Stops/Segment	---	1	1	1	1
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	11	13	14	18	22
Horsepower/Train	12,400	13,000	13,000	13,500	14,000
Gross Tons/Train	4,215	4,600	4,700	5,000	6,000
General Trains/Day	5	5	5	6	7
Horsepower/Train	11,100	11,300	11,500	12,000	13,000
Gross Tons/Train	4,100	4,200	4,400	4,800	5,500
Unit Trains/Day	2	3	4	6	8
Horsepower/Train	9,500	10,000	10,500	11,000	11,500
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	4	4	4	4	4
# Units/Job	2/4,000	2/4,000	2/4,000	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #35 Detailed Info for Segment – MC-WR Routes # 6, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	19.9	19.9	19.9	19.9	19.9
# of Main Tracks/Miles	1/32.2	1/32.2	1/32.2	1/32.2	1/32.2
Other Tracks/Miles	4.0	4.0	4.0	4.0	4.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	+0.7	+0.7	+0.7	+0.7	+0.7
Length of Grade	3.0	3.0	3.0	3.0	3.0
Ruling Grade Westbound	-0.7	-0.7	-0.7	-0.7	-0.7
Length of Grade	4.0	4.0	4.0	4.0	4.0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	6	10	10	10
Horsepower/Train	NONE	3000	3000	3000	3000
Trailing Tons/Train	NONE	280	350	420	420
Stops/Segment	NONE	2	2	2	2
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
			---	---	---
Freight Train Information					
High Priority Trains/Day	11	13	14	18	22
Horsepower/Train	12,400	13,000	13,000	13,500	14,000
Gross Tons/Train	4,400	4,600	4,700	5,000	6,000
General Trains/Day	5	5	5	6	7
Horsepower/Train	11,100	11,300	11,500	12,000	13,000
Gross Tons/Train	4,300	4,500	4,600	5,000	5,700
Unit Trains/Day	2	3	4	6	8
Horsepower/Train	9,500	10,000	10,500	11,000	11,500
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	3	3	3	3	3
# Units/Job	2/4,500	2/4,500	2/4,500	2/4,500	2/4,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #36 Detailed Info for Segment - JY-RE Routes # 12**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0.6	0.6	0.6	0.6	0.6
# of Main Tracks/Miles	1/6	1/6	1/6	1/6	1/6
Other Tracks/Miles					
Signal System	TWC	TWC	CTC	CTC	CTC
Capital Expense	0	0	0	0	0
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	1	2	3	5	10
Horsepower/Train	12,000	12,600	12,800	13,000	13,500
Gross Tons/Train	3,500	3,800	4,200	4,600	5,000
General Trains/Day	2	2	2	2	2
Horsepower/Train	14,000	14,000	14,000	14,000	14,000
Gross Tons/Train	4,000	4,200	4,400	4,600	4,800
Unit Trains/Day	NONE	NONE	1	2	4
Horsepower/Train	NONE	NONE	13,500	14,000	14,500
Gross Tons/Train	NONE	NONE	7,500	7,600	7,700
Misc. Train Activity					
Industrial Jobs/Day	3	3	3	3	3
# Units/Job	2/4,000	2/4,000	2/4,000	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #37 Detailed Info for Segment – SO-E.I Routes # 6, 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	2.8	2.8	2.8	2.8	2.8
# of Main Tracks/Miles	2/5.6	2/5.6	2/5.6	2/5.6	2/5.6
Other Track Miles	1.0	1.0	1.0	1.0	1.0
Signal System					
Capital Expense					
Ruling Grade Eastbound	-0.5	-0.5	-0.5	-0.5	-0.5
Length of Grade	2	2	2	2	2
Ruling Grade Westbound	0.5	0.5	0.5	0.5	0.5
Length of Grade	2	2	2	2	2
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	6	10	10	10
Horsepower/Train	NONE	3,000	3,000	3,000	3,000
Trailing Tons/Train	NONE	280	350	420	420
Stops/Segment	NONE	0	0	0	0
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	9	12	15	19	28
Horsepower/Train	11,400	11,500	11,800	12,200	12,600
Gross Tons/Train	3,500	4,200	4,700	5,200	5,500
General Trains/Day	3	3	4	4	4
Horsepower/Train	10,700	10,700	11,000	11,400	11,800
Gross Tons/Train	4,375	4,500	5,000	5,600	5,800
Unit Trains/Day	2	2	3	4	4
Horsepower/Train	13,200	13,800	14,000	14,300	14,600
Gross Tons/Train	7,100	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	4	4	4	4	4
# Units/HP/Job	2/2,200	2/2,200	2/2,200	2/2,200	2/2,200
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #38 Detailed Info for Segment – EJ-AL Routes # 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	5.8	5.8	5.8	5.8	5.8
# of Main Tracks/Miles	2/11.6	2/11.6	2/11.6	2/11.6	2/11.6
Other Track Miles	6.0	6.0	6.0	6.0	6.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.8	.8	.8	.8	.8
Length of Grade	3	3	3	3	3
Ruling Grade Westbound	-.8	-.8	-.8	-.8	-.8
Length of Grade	3	3	3	3	3
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	2	4	4	4
Horsepower/Train	NONE	5,000	5,000	5,000	5,000
Gross Tons/Train	NONE	720	720	720	720
Stops/Segment	NONE	0	0	0	0
Freight Train Information					
High Priority Trains/Day	20	23	26	30	39
Horsepower/Train	10,885	11,000	11,500	12,000	12,500
Gross Tons/Train	3,530	4,600	5,200	5,800	6,000
General Trains/Day	11	11	12	12	12
Horsepower/Train	11,600	11,600	11,800	12,000	12,500
Gross Tons/Train	4,340	4,700	5,100	5,600	5,800
Unit Trains/Day	2	2	3	4	4
Horsepower/Train	13,800	13,850	14,000	14,300	14,600
Gross Tons/Train	6,700	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2-3,500 HP				
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #39 Detailed Info for Segment – AL-EM Routes # 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	6.9	6.9	6.9	6.9	6.9
# of Main Tracks/Miles	1/9.4	1/9.4	1/9.4	1/9.4	1/9.4
Other Track Miles	0	0	0	0	0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-.8	-.8	-.8	-.8	-.8
Length of Grade	1	1	1	1	1
Ruling Grade Westbound	.8	.8	.8	.8	.8
Length of Grade	1	1	1	1	1
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	3	4	4	4
Horsepower/Train	NONE	5,000	5,000	5,000	5,000
Gross Tons/Train	NONE	720	720	720	720
Stops/Segment	NONE	0	0	0	0
Freight Train Information					
High Priority Trains/Day	13	23	26	30	39
Horsepower/Train	10,885	11,000	11,500	12,000	12,500
Gross Tons/Train	3,530	4,600	5,200	5,800	6,000
General Trains/Day	11	11	12	12	12
Horsepower/Train	11,600	11,600	11,800	12,000	12,500
Gross Tons/Train	4,340	4,700	5,100	5,600	5,800
Unit Trains/Day	2	2	3	4	4
Horsepower/Train	11,000	13,850	14,000	14,300	14,600
Gross Tons/Train	6,400	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2-3,500 HP				
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #40 Detailed Info for Segment - CI-PA Routes # 1, 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	13.3	13.3	13.3	13.3	13.3
# of Main Tracks/Miles	1/20.2	1/20.2	1/20.2	1/20.2	1/20.2
Other Track Miles	10.0	10.0	10.0	10.0	10.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.0	1.0	1.0	1.0	1.0
Length of Grade	3	3	3	3	3
Ruling Grade Westbound	-1.0	-1.0	-1.0	-1.0	-1.0
Length of Grade	3	3	3	3	3
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	3	4	4	4
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	20	23	26	30	39
Horsepower/Train	11,255	11,000	11,500	12,000	12,500
Gross Tons/Train	3,620	4,600	5,200	5,800	6,000
General Trains/Day	19	19	20	20	20
Horsepower/Train	11,230	11,400	11,600	11,800	12,000
Gross Tons/Train	4,400	4,800	5,200	5,700	6,000
Unit Trains/Day	2	2	3	4	4
Horsepower/Train	13,800	13,800	14,000	14,300	14,600
Gross Tons/Train	6,700	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	7	7	7	7	7
# Units/HP/Job	2-4,000 HP				
Yard Jobs/Day	4	4	4	4	4
# Units/HP/Job	2/3,500*	2/3,500*	2/3,500*	2/3,500*	2/3,500*
Other:					
* - Road Switcher assignments that have a duty cycle of a yard assignment					

**Segment #41 Detailed Info for Segment - PA-SM Routes # 1, 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.0	7.0	7.0	7.0	7.0
# of Main Tracks/Miles	1/10	1/10	2/14	3/21	3/21
Other Tracks/Miles					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.5	.5	.5	.5	.5
Length of Grade	5	5	5	5	5
Ruling Grade Westbound	-.5	-.5	-.5	-.5	-.5
Length of Grade	5	5	5	5	5
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	3	4	4	4
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	20	23	26	30	39
Horsepower/Train	11,255	11,000	11,500	12,000	12,500
Gross Tons/Train	3,620	4,600	5,200	5,800	6,000
General Trains/Day	19	19	20	20	20
Horsepower/Train	11,230	11,400	11,600	11,800	12,000
Gross Tons/Train	4,400	4,800	5,200	5,700	6,000
Unit Trains/Day	2	2	3	4	4
Horsepower/Train	11,000	13,800	14,000	14,300	14,600
Gross Tons/Train	6,400	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2-3,500 HP				
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #42 Detailed Info for Segment - SM-WC Routes # 1, 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	17.7	17.7	17.7	17.7	17.7
# of Main Tracks/Miles	1/32.6	1/32.6	2/35.4	3/53.1	3/53.1
Other Tracks/Miles	25.0	25.0	25.0	25.0	25.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.2	.2	.2	.2	.2
Length of Grade	1	1	1	1	1
Ruling Grade Westbound	-.2	-.2	-.2	-.2	-.2
Length of Grade	1	1	1	1	1
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	3	4	4	4
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	20	23	26	30	39
Horsepower/Train	11,255	11,000	11,500	12,000	12,500
Gross Tons/Train	3,620	4,600	5,200	5,800	6,000
General Trains/Day	19	19	20	20	20
Horsepower/Train	11,230	11,400	11,600	11,800	12,000
Gross Tons/Train	4,400	4,800	5,200	5,700	6,000
Unit Trains/Day	2	2	3	4	4
Horsepower/Train	11,000	13,800	14,000	14,300	14,600
Gross Tons/Train	6,400	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	10	10	10	10	10
# Units/HP/Job	3-5,400	3/5,400	3/5,400	3/5,400	3/5,400
Yard Jobs/Day	18	18	18	18	18
# Units/HP/Job	2/4000	2/4,000	2/4,000	2/4,000	2/4,000
Other:					
Includes West Colton Yard					

**Segment #43 Detailed Info for Segment – WC-CO Routes # 1, 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.0	1.0	1.0	1.0	1.0
# of Main Tracks/Miles	2/2.0	2/2.0	2/2.0	2/2.0	2/2.0
Other Tracks/Miles	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-.7	-.7	-.7	-.7	-.7
Length of Grade	1	1	1	1	1
Ruling Grade Westbound	.7	.7	.7	.7	.7
Length of Grade	1	1	1	1	1
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	3	4	4	4
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	19	23	26	30	39
Horsepower/Train	18,290	11,000	11,500	12,000	12,500
Gross Tons/Train	4,315	4,600	5,200	5,800	6,000
General Trains/Day	7	9	10	10	10
Horsepower/Train	13,245	11,400	11,600	11,800	12,000
Gross Tons/Train	4,400	4,800	5,200	5,700	6,000
Unit Trains/Day	NONE	2	3	4	4
Horsepower/Train	NONE	13,800	14,000	14,300	14,600
Gross Tons/Train	NONE	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	4	4	4	4	4
# Units/Job	3/8,000	3/8,000	3/8,000	3/8,000	3/8,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					
Segment handled by yard assignments from West Colton Yard.					

**Segment #44 Detailed Info for Segment - CO-IN Routes # 1, 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	72.2	72.2	72.2	72.2	72.2
# of Main Tracks/Miles	1/122.2	1/122.2	1/122.2	1/122.2	1/122.2
Other Tracks	5.0	5.0	5.0	5.0	5.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.7	1.7	1.7	1.7	1.7
Length of Grade	11	11	11	11	11
Ruling Grade Westbound	1.7	1.7	1.7	1.7	1.7
Length of Grade	17	17	17	17	17
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	1	2	2	2
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	19	23	26	30	39
Horsepower/Train	18,290	11,000	11,500	12,000	12,500
Gross Tons/Train	4,315	4,600	5,200	5,800	6,000
General Trains/Day	7	9	10	10	10
Horsepower/Train	13,245	11,400	11,600	11,800	12,000
Gross Tons/Train	4,400	4,800	5,200	5,700	6,000
Unit Trains/Day	NONE	2	3	4	4
Horsepower/Train	NONE	13,800	14,000	14,300	14,600
Gross Tons/Train	NONE	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	4/12,000	4/12,000	4/12,000	4/12,000	4/12,000
Yard Jobs/Day	*				
# Units/Job	*				
Other:					
* - These jobs are entirely outside the scope of this study					

**Segment #45 Detailed Info for Segment – IN-YU Routes # 1, 11**

	<b>1991</b>	<b>1993</b>	<b>1995</b>	<b>2000</b>	<b>2010</b>
Segment Length (Miles)	124.0	124.0	124.0	124.0	124.0
# of Main Tracks/Miles	1/193.2	1/193.2	1/193.2	1/193.2	1/193.2
Other Tracks	10.0	10.0	10.0	10.0	10.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.8	.8	.8	.8	.8
Length of Grade	3	3	3	3	3
Ruling Grade Westbound	.7	.7	.7	.7	.7
Length of Grade	3	3	3	3	3
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	1	2	2	2
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	19	23	26	30	39
Horsepower/Train	18,290	11,000	11,500	12,000	12,500
Gross Tons/Train	4,315	4,600	5,200	5,800	6,000
General Trains/Day	7	9	10	10	10
Horsepower/Train	13,245	11,400	11,600	11,800	12,000
Gross Tons/Train	4,400	4,800	5,200	5,700	6,000
Unit Trains/Day	NONE	2	3	4	4
Horsepower/Train	NONE	13,800	14,000	14,300	14,600
Gross Tons/Train	NONE	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	*				
# Units/Job	*				
Yard Jobs/Day	*				
# Units/Job	*				
Other:					
* - These assignments are entirely outside the scope of this study.					

**Segment #46 Detailed Info for Segment – EY-HO Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0.2	0.2	0.2	0.2	0.2
# of Main Tracks/Miles	1/0.2	1/0.2	1/0.2	1/0.2	1/0.2
Other Tracks/Miles					
Signal System	NONE	NONE	?		
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2/4,000	2/4,000	2/4,000	2/4,000	2/4,000
Yard Jobs/Day	2	2	2	2	2
# Units/Job	1-1,000	1-1,000	1-1,000	1-1,000	1-1,000
Other:					

**Segment #47 Detailed Info for Segment – DT-BO Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	3.2	3.2	3.2	3.2	3.2
Number of Main Tracks	1	1	1	1	1
Capital Expense					
Signal System	DTC	DTC			
Capital Expense					
Ruling Grade Eastbound	.5	.5	.5	.5	.5
Length of Grade	2	2	2	2	2
Ruling Grade Westbound	-.5	-.5	-.5	-.5	-.5
Length of Grade	2	2	2	2	2
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	5	5	NONE	NONE	NONE
Horsepower/Train	11,400	11,400	NONE	NONE	NONE
Gross Tons/Train	3,440	3,440	NONE	NONE	NONE
General Trains/Day	2	2	NONE	NONE	NONE
Horsepower/Train	12,875	12,875	NONE	NONE	NONE
Gross Tons/Train	6,833	6,833	NONE	NONE	NONE
Unit Trains/Day	1	1	NONE	NONE	NONE
Horsepower/Train	11,400	11,400	NONE	NONE	NONE
Gross Tons/Train	9,010	9,010	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	3	3	3	3	3
# Units/HP/Job	2/5,000	2/5,000	2/5,000	2/5,000	2/5,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #48 Detailed Info for Segment – OL-AT Routes # 9**

	1991	1993	1995	2000	2010
Segment Length (Miles)	5.5	5.5	5.5	5.5	5.5
# of Main Tracks/Miles	1/5.5	1/5.5	1/5.5	1/5.5	1/5.5
Other Tracks/Miles	0				
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.8	.8	.8	.8	.8
Length of Grade	1	1	1	1	1
Ruling Grade Westbound	-.8	-.8	-.8	-.8	-.8
Length of Grade	1	1	1	1	1
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	8	48	48
Horsepower/Train	NONE	NONE	3,000	3,000	3,000
Trailing Tons/Train	NONE	NONE	280	420	420
Stops/Segment	NONE	NONE	0	0	0
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	2	2	3	4	4
Horsepower/Train	15,000	15,000	15,000	16,000	16,000
Gross Tons/Train	3,250	3,250	3,500	4,000	4,000
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	1/2,000	1/2,000	1/2,000	1/2,000	1/2,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #49 Detailed Info for Segment – CI-PU Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.6	1.6	1.6	1.6	1.6
# of Main Tracks/Miles	1/1.6	1/1.6	1/1.6	1/1.6	1/1.6
Other Tracks/Miles					
Signal System					
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	5	5	NONE	NONE	NONE
Horsepower/Train	11,400	11,400	NONE	NONE	NONE
Gross Tons/Train	3,440	3,440	NONE	NONE	NONE
General Trains/Day	2	2	NONE	NONE	NONE
Horsepower/Train	12,875	12,875	NONE	NONE	NONE
Gross Tons/Train	6,833	6,833	NONE	NONE	NONE
Unit Trains/Day	1	1	NONE	NONE	NONE
Horsepower/Train	11,400	11,400	NONE	NONE	NONE
Gross Tons/Train	9,010	9,010	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	3	3	3	3	3
# Units/Job	2/5,000	2/5,000	2/5,000	2/5,000	2/5,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #50 Detailed Info for Segment - PA-SD Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0	0.1	0.1	0.1	0.1
# of Main Tracks/Miles	0	1/0.1	1/0.1	1/0.1	1/0.1
Other Tracks/Miles					
Signal System	NONE	CTC			
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE				
# Units/Job	NONE				
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #51 Detailed Info for Segment – SM-MC Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0	0	0	0	0
# of Main Tracks/Miles	0	1/0.1	1/0.1	1/0.1	1/0.1
Other Tracks/Miles					
Signal System	NONE	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	NONE	0	0	0	0
Length of Grade	NONE	0	0	0	0
Ruling Grade Westbound	NONE	0	0	0	0
Length of Grade	NONE	0	0	0	0
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE				
Horsepower/Train	NONE				
Gross Tons/Train	NONE				
General Trains/Day	NONE				
Horsepower/Train	NONE				
Gross Tons/Train	NONE				
Unit Trains/Day	NONE				
Horsepower/Train	NONE				
Gross Tons/Train	NONE				
Misc. Train Activity					
Industrial Jobs/Day	NONE				
# Units/Job	NONE				
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #52 Detailed Info for Segment - RS-HG Routes # 8, 9, 12,13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	3.1	3.1	3.14	3.1	3.1
# of Main Tracks/Miles	2/6.2	2/6.2	3/9.3	3/9.3	3/9.3
Other Tracks/Miles	0	0	.3	.8	.8
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound %	1.0	1.0	1.0	1.0	1.0
Length of Grade	1.0	1.0	1.0	1.0	1.0
Ruling Grade Westbound %	-1.0	-1.0	-1.0	-1.0	-1.0
Length of Grade	1.0	1.0	1.0	1.0	1.0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	16	96	96
Horsepower/Train	NONE	NONE	3,000	3,000	3,000
Trailing Tons/Train	NONE	NONE	280	420	420
Stops/Segment	NONE	NONE	1	1	1
Amtrak					
Trains/Day	2	2	2	2	2
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	28	32	35	41	50
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,650	3,800	4,200	4,700	5,000
General Trains/Day	13	13	13	14	15
Horsepower/Train	11,925	11,000	11,700	12,200	13,000
Gross Tons/Train	4,200	4,300	4,500	4,700	5,100
Unit Trains/Day	2	2	5	8	12
Horsepower/Train	9,500	9,500	10,600	11,100	11,700
Gross Tons/Train	6,775	6,775	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	1	1	1	1	1
# Units/HP/Job	2/3,500	2/3,500	2/3,500	2/3,500	2/3,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #53 Detailed Info for Segment - HG-CO Routes # 9, 12, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	3.5	3.5			
# of Main Tracks/Miles	2/7.0	2/7.0			
Other Tracks/Miles	1.0	1.0			
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound %	-.6	-.6	-.6	-.6	-.6
Length of Grade	1.0	1.0	1.0	1.0	1.0
Ruling Grade Westbound %	.6	.6	.6	.6	.6
Length of Grade	1.0	1.0	1.0	1.0	1.0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	8	48	48
Horsepower/Train	NONE	NONE	3,000	3,000	3,000
Trailing Tons/Train	NONE	NONE	280	420	420
Stops/Segment	NONE	NONE	280	420	420
Amtrak					
Trains/Day	2	2	2	2	2
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	28	32	35	41	50
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,650	3,800	4,200	4,700	5,000
General Trains/Day	13	13	13	14	15
Horsepower/Train	11,925	11,000	11,700	12,200	13,000
Gross Tons/Train	4,200	4,300	4,500	4,700	5,100
Unit Trains/Day	2	2	5	8	12
Horsepower/Train	9,500	9,500	10,600	11,100	11,700
Gross Tons/Train	6,775	6,775	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2/4,500	2/4,500	2/4,500	2/4,500	2/4,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #54 Detailed Info for Segment - CO-BY Routes # 9, 12, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	2.7	2.7	2.7	2.7	2.7
# of Main Tracks/Miles	2/5.4	2/5.4	2/5.4	2/5.4	2/5.4
Capital Expense	1.0	1.0			
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	+1.0	+1.0	+1.0	+1.0	+1.0
Length of Grade	2.8	2.8	2.8	2.8	2.8
Ruling Grade Westbound	-1.0	-1.0	-1.0	-1.0	-1.0
Length of Grade	2.8	2.8	2.8	2.8	2.8
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	8	48	48
Horsepower/Train	NONE	NONE	3,000	3,000	3,000
Trailing Tons/Train	NONE	NONE	280	420	420
Stops/Segment	NONE	NONE	0	0	0
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	28	32	35	41	50
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,650	3,800	4,200	4,700	5,000
General Trains/Day	15	15	15	16	17
Horsepower/Train	11,875	11,000	11,700	12,200	13,000
Gross Tons/Train	4,365	4,500	4,500	4,700	5,100
Unit Trains/Day	2	2	5	8	12
Horsepower/Train	9,500	9,500	10,600	11,100	11,700
Gross Tons/Train	6,775	6,775	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	3	3	3	3	3
# Units/HP/Job	2/4,500	2/4,500	2/4,500	2/4,500	2/4,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #55 Detailed Info for Segment – BY-SB Routes # 9, 12, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.0	1.0	1.0	1.0	1.0
# of Main Tracks/Miles	1/1.0	1/1.0	1/1.0	1/1.0	1/1.0
Other Tracks/Miles	2.0	2.0	2.0	2.0	2.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail	NONE	NONE			
Trains/Day	NONE	NONE	8		
Horsepower/Train	NONE	NONE	3,000	3,000	3,000
Trailing Tons/Train	NONE	NONE	280	420	420
Stops/Segment	NONE	NONE	1	1	1
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	28	32	35	41	50
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,650	3,800	4,200	4,700	5,000
General Trains/Day	15	15	15	16	17
Horsepower/Train	11,875	11,000	11,700	12,200	13,000
Gross Tons/Train	4,365	4,500	4,500	4,700	5,100
Unit Trains/Day	2	2	5	8	12
Horsepower/Train	9,500	9,500	10,600	11,100	11,700
Gross Tons/Train	6,775	6,775	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	3	3	3	3	3
# Units/HP/Job	2/4,500	2/4,500	2/4,500	2/4,500	2/4,500
Yard Jobs/Day	6	6	6	6	6
# Units/HP/Job	2/,4000	2/,4000	2/,4000	2/,4000	2/,4000
Other:					

**Segment #56 Detailed Info for Segment – SB-KB Routes # 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	11.9	11.9	11.9	11.9	11.9
# of Main Tracks/Miles	2/23.8	2/23.8	2/23.8	2/23.8	2/23.8
Other Tracks/Miles	2.0	2.0	2.0	2.0	2.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	2.2	2.2	2.2	2.2	2.2
Length of Grade	9.0	9.0	9.0	9.0	9.0
Ruling Grade Westbound	-2.2	-2.2	-2.2	-2.2	-2.2
Length of Grade	9.0	9.0	9.0	9.0	9.0
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	29	33	36	42	51
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,676	3,800	4,200	4,700	5,000
General Trains/Day	18	18	18	19	20
Horsepower/Train	12,000	11,000	11,700	12,200	13,000
Gross Tons/Train	4,776	4,500	4,500	4,700	5,100
Unit Trains/Day	2	3	5	8	12
Horsepower/Train	9,500	10,000	10,600	11,100	11,700
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	2/4,000	2/4,000	2/4,000	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #57 Detailed Info for Segment - KB-SU Routes # 1, 12, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	14.5	14.5	14.5	14.5	14.5
# of Main Tracks/Miles	2/29.0	2/29.0	2/29.0	2/29.0	2/29.0
Capital Expense	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	2.2	2.2	2.2	2.2	2.2
Length of Grade	13.5	13.5	13.5	13.5	13.5
Ruling Grade Westbound	-2.2	-2.2	-2.2	-2.2	-2.2
Length of Grade	13.5	13.5	13.5	13.5	13.5
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	29	33	36	42	51
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,676	3,800	4,200	4,700	5,000
General Trains/Day	18	18	18	19	20
Horsepower/Train	12,000	11,000	11,700	12,200	13,000
Gross Tons/Train	4,200	4,300	4,500	4,700	5,100
Unit Trains/Day	2	3	5	8	12
Horsepower/Train	9,500	10,000	10,600	11,100	11,700
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #58 Detailed Info for Segment – SU-VV Routes # 1, 12, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	19.5	19.5	19.5	19.5	19.5
# of Main Tracks/Miles	2/39.0	2/39.0	2/39.0	2/39.0	2/39.0
Other Tracks/Miles	2.0	2.0	2.0	2.0	2.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound %	-1.5	-1.5	-1.5	-1.5	-1.5
Length of Grade	17.0	17.0	17.0	17.0	17.0
Ruling Grade Westbound %	1.5	1.5	1.5	1.5	1.5
Length of Grade	17.0	17.0	17.0	17.0	17.0
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	29	33	36	42	51
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,676	3,800	4,200	4,700	5,000
General Trains/Day	18	18	18	19	20
Horsepower/Train	12,000	11,000	11,700	12,200	13,000
Gross Tons/Train	4,200	4,300	4,500	4,700	5,100
Unit Trains/Day	2	3	5	8	12
Horsepower/Train	9,500	10,000	10,600	11,100	11,700
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #59 Detailed Info for Segment – VV-BA Routes # 1, 12, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	36.9	36.9	36.9	36.9	36.9
Number of Main Tracks	2/3.8	2/3.8	2/3.8	2/3.8	2/3.8
Capital Expense	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-.5	-.5	-.5	-.5	-.5
Length of Grade	25.0	25.0	25.0	25.0	25.0
Ruling Grade Westbound	.5	.5	.5	.5	.5
Length of Grade	25.0	25.0	25.0	25.0	25.0
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	29	33	36	42	51
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,676	3,800	4,200	4,700	5,000
General Trains/Day	18	18	18	19	20
Horsepower/Train	12,000	11,000	11,700	12,200	13,000
Gross Tons/Train	4,200	4,300	4,500	4,700	5,100
Unit Trains/Day	2	3	5	8	12
Horsepower/Train	9,500	10,000	10,600	11,100	11,700
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	1	1	1	1	1
# Units/HP/Job	2/6,000	2/6,000	2/6,000	2/6,000	2/6,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #60 Detailed Info for Segment – BA-DA Routes # 1, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.2	7.2	7.2	7.2	7.2
# of Main Tracks/Miles	2/14.2	2/14.2	2/14.2	2/14.2	2/14.2
Other Tracks/Miles	25.0				
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound %	-0.3	-0.3	-0.3	-0.3	-0.3
Length of Grade	5	5	5	5	5
Ruling Grade Westbound	0.3	0.3	0.3	0.3	0.3
Length of Grade	5	5	5	5	5
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	11	13	14	18	22
Horsepower/Train	12,400	13,000	13,000	13,500	14,000
Gross Tons/Train	4,400	4,600	4,700	5,000	6,000
General Trains/Day	7	7	7	8	9
Horsepower/Train	11,130	11,400	11,600	12,100	13,000
Gross Tons/Train	4,300	4,500	4,600	5,100	5,500
Unit Trains/Day	2	3	4	6	8
Horsepower/Train	9,500	10,000	10,500	11,000	11,500
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	N/A	N/A	N/A	N/A	N/A
# Units/Job	N/A	N/A	N/A	N/A	N/A
Yard Jobs/Day	N/A	N/A	N/A	N/A	N/A
# Units/Job	N/A	N/A	N/A	N/A	N/A
Other:					
N/A – These jobs are entirely					
outside the scope of this					
study.					

**Segment #61 Detailed Info for Segment – DA-YY Routes # 1, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	5.2	5.2	5.2	5.2	5.2
# of Main Tracks/Miles	2/10.4	2/10.4	2/10.4	2/10.4	2/10.4
Other Tracks/Miles	10.0	10.0	10.0	10.0	10.0
Signal System	CTC	CTC	CTC	CTC	CTC
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	2	2	2	2	2
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	11	13	14	18	22
Horsepower/Train	12,400	13,000	13,000	13,500	14,000
Gross Tons/Train	4,300	4,500	4,600	5,100	5,500
General Trains/Day	7	7	7	8	9
Horsepower/Train	11,130	11,400	11,600	12,100	13,000
Gross Tons/Train	5,324	5,400	5,500	5,900	6,100
Unit Trains/Day	2	3	4	6	8
Horsepower/Train	9,500	10,000	10,500	11,000	11,500
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	N/A	N/A	N/A	N/A	N/A
# Units/Job	N/A	N/A	N/A	N/A	N/A
Yard Jobs/Day	N/A	N/A	N/A	N/A	N/A
# Units/HP/Job	N/A	N/A	N/A	N/A	N/A
Other:					
N/A – These jobs are entirely					
outside the scope of this					
study.					

**Segment #62 Detailed Info for Segment – WC-NB Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	5.8	5.8	5.8	5.8	5.8
# of Main Tracks/Miles	1/7.8	1/7.8	1/7.8	1/7.8	1/7.8
Other Tracks/Miles					
Signal System	CTC	CTC	CTC	CTC	CTC
Ruling Grade Eastbound	-2.2	-2.2	-2.2	-2.2	-2.2
Length of Grade	2	2	2	2	2
Ruling Grade Westbound	2.2	2.2	2.2	2.2	2.2
Length of Grade	2	2	2	2	2
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	7	7	7	7	7
Horsepower/Train	12,840	12,840	12,840	12,840	12,840
Gross Tons/Train	4,725	4,725	4,725	4,725	4,725
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #63 Detailed Info for Segment – NB-DC Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.8	7.8	7.8	7.8	7.8
Number of Main Tracks	1/9.5	1/9.5	1/9.5	1/9.5	1/9.5
Capital Expense	0				
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-2.1	-2.1	-2.1	-2.1	-2.1
Length of Grade	8	8	8	8	8
Ruling Grade Westbound	2.1	2.1	2.1	2.1	2.1
Length of Grade	8	8	8	8	8
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	7	7	7	7	7
Horsepower/Train	12,840	12,840	12,840	12,840	12,840
Gross Tons/Train	4,725	4,725	4,725	4,725	4,725
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity	NONE	NONE	NONE	NONE	NONE
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #64 Detailed Info for Segment - DK-HL Routes #**

	1991	1993	1995	2000	2010
Segment Length (Miles)	16.0	16.0	16.0	16.0	16.0
Number of Main Tracks	1/19.0	1/19.0	1/19.0	1/19.0	1/19.0
Other Tracks/Miles					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-2.1	-2.1	-2.1	-2.1	-2.1
Length of Grade	15	15	15	15	15
Ruling Grade Westbound	2.1	2.1	2.1	2.1	2.1
Length of Grade	15	15	15	15	15
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	7	7	7	7	7
Horsepower/Train	12,840	12,840	12,840	12,840	12,840
Gross Tons/Train	4,725	4,725	4,725	4,725	4,725
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #65 Detailed Info for Segment – HL-SU Routes #**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0	0	.5	.5	.5
Number of Main Tracks	0	0	1	1	1
Capital Expense					
Signal System	NONE	NONE			
Capital Expense	NONE	NONE			
Ruling Grade Eastbound	NONE	NONE			
Length of Grade	NONE	NONE			
Ruling Grade Westbound	NONE	NONE			
Length of Grade	NONE	NONE			
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE			
Horsepower/Train	NONE	NONE			
Gross Tons/Train	NONE	NONE			
General Trains/Day	NONE	NONE			
Horsepower/Train	NONE	NONE			
Gross Tons/Train	NONE	NONE			
Unit Trains/Day	NONE	NONE			
Horsepower/Train	NONE	NONE			
Gross Tons/Train	NONE	NONE			
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #66 Detailed Info for Segment – DK-KB Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0.1	0.1	0.1	0.1	0.1
# of Main Tracks/Miles	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1
Capital Expense					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0.0	0.0	0.0	0.0	0.0
Length of Grade	---	---	---	---	---
Ruling Grade Westbound	0.0	0.0	0.0	0.0	0.0
Length of Grade	---	---	---	---	---
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE				
Horsepower/Train	NONE				
Gross Tons/Train	NONE				
General Trains/Day	NONE				
Horsepower/Train	NONE				
Gross Tons/Train	NONE				
Unit Trains/Day	NONE				
Horsepower/Train	NONE				
Gross Tons/Train	NONE				
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #67 Detailed Info for Segment – BY-NB Routes #**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0	0	2.9		
# of Main Tracks/Miles	0	0	2		
Other Tracks/Miles					
Signal System	NONE	NONE			
Capital Expense	NONE	NONE			
Ruling Grade Eastbound	NONE	NONE			
Length of Grade	NONE	NONE			
Ruling Grade Westbound	NONE	NONE			
Length of Grade	NONE	NONE			
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE			
Horsepower/Train	NONE	NONE			
Gross Tons/Train	NONE	NONE			
Stops/Segment	NONE	NONE			
Freight Train Information					
High Priority Trains/Day	NONE	NONE			
Horsepower/Train	NONE	NONE			
Gross Tons/Train	NONE	NONE			
General Trains/Day	NONE	NONE			
Horsepower/Train	NONE	NONE			
Gross Tons/Train	NONE	NONE			
Unit Trains/Day	NONE	NONE			
Horsepower/Train	NONE	NONE			
Gross Tons/Train	NONE	NONE			
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE			
# Units/Job	NONE	NONE			
Yard Jobs/Day	NONE	NONE			
# Units/Job	NONE	NONE			
Other:					

**Segment #68 Detailed Info for Segment – SB-RD Routes # 10**

	1991	1993	1995	2000	2010
Segment Length (Miles)	12.0	12.0	12.0	12.0	12.0
# of Main Tracks/Miles	1/12.2	1/12.2	1/12.2	1/12.2	1/12.2
Other Tracks/Miles	.5	.5	.5	.5	.5
Signal System	NONE	NONE	NONE		
Capital Expense					
Ruling Grade Eastbound					
Length of Grade					
Ruling Grade Westbound					
Length of Grade					
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	4	10
Horsepower/Train	NONE	NONE	NONE	3,000	3,000
Trailing Tons/Train	NONE	NONE	NONE	280	420
Stops/Segment	NONE	NONE	NONE	2	2
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information	NONE	NONE	NONE	NONE	NONE
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity	NONE	NONE	NONE	NONE	NONE
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	1	1	1	1	1
# Units/Job	1/2,000	1/2,000	1/2,000	1/2,000	1/2,000
Other:					

**Segment #69 Detailed Info for Segment – HG-HE Routes # 8**

	1991	1993	1995	2000	2010
Segment Length (Miles)	36.0	36.0	36.0	36.0	36.0
# of Main Tracks/Miles	1/38.1	1/38.1	1/38.1	1/38.1	1/38.1
Other Tracks/Miles	.5	.5	.5	.5	.5
Signal System	NONE				
Capital Expense					
Ruling Grade Eastbound	2.0	2.0	2.0	2.0	2.0
Length of Grade	5.0	5.0	5.0	5.0	5.0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	----	----	----	----	----
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	4	10	10
Horsepower/Train	NONE	NONE	3,000	3,000	3,000
Trailing Tons/Train	NONE	NONE	280	420	420
Stops/Segment	NONE	NONE	2	2	2
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information	NONE	NONE	NONE	NONE	NONE
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity	NONE	NONE	NONE	NONE	NONE
Industrial Jobs/Day	1	1	1	1	1
# Units/HP/Job	2/5,000	2/5,000	2/5,000	2/5,000	2/5,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #70 Detailed Info for Segment - BA-CI Routes # 11**

	1991	1993	1995	2000	2010
Segment Length (Miles)	3.7	3.7	3.7	3.7	3.7
# of Main Tracks/Miles	1/5.2	1/5.2	1/5.2	1/5.2	1/5.2
Other Tracks/Miles	0	0	0	0	0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0.2	0.2	0.2	0.2	0.2
Length of Grade	2	2	2	2	2
Ruling Grade Westbound	-.2	-.2	-.2	-.2	-.2
Length of Grade	2	2	2	2	2
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	1	2	2	2
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	20	23	26	30	39
Horsepower/Train	10,885	11,000	11,500	12,000	12,500
Gross Tons/Train	3,530	4,600	5,200	5,800	6,000
General Trains/Day	11	11	12	12	12
Horsepower/Train	11,600	11,600	11,800	12,000	12,500
Gross Tons/Train	4,340	4,700	5,100	5,600	5,800
Unit Trains/Day	2	2	3	4	4
Horsepower/Train	13,800	13,800	14,000	14,300	14,600
Gross Tons/Train	6,700	6,700	6,500	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	3	3	3	3	3
# Units/Job	2-3,500 HP				
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #71 Detailed Info for Segment - WR-RS Routes # 6, 7, 12, 13**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0.8	0.8	0.8	0.8	0.8
# of Main Tracks/Miles	3/2.4	3/2.4	4/3.2	4/3.2	5/4.0
Other Tracks	.3	.3	.8	1.3	1.3
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound %	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound %	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	16	96	96
Horsepower/Train	NONE	NONE	3,000	3,000	3,000
Trailing Tons/Train	NONE	NONE	280	420	420
Stops/Segment	NONE	NONE	1	1	1
Amtrak					
Trains/Day	2	2	2	2	2
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	28	32	35	41	50
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,650	3,800	4,200	4,700	5,000
General Trains/Day	13	13	13	14	15
Horsepower/Train	11,925	11,000	11,700	12,200	13,000
Gross Tons/Train	4,200	4,300	4,500	4,700	5,100
Unit Trains/Day	2	3	5	8	12
Horsepower/Train	9,500	10,000	10,600	11,100	11,700
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	1	1	1	1	1
# Units/HP/Job	2/3,500	2/3,500	2/3,500	2/3,500	2/3,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #72 Detailed Info for Segment – IV-SJ-IR Routes # 5**

	1991	1993	1995	2000	2010
Segment Length (Miles)	18.1	18.1	18.1	18.1	18.1
# of Main Tracks/Miles	1/20.2	1/20.2	1/20.2	1/20.2	1/20.2
Other Tracks					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.2	1.2	1.2	1.2	1.2
Length of Grade	3	3	3	3	3
Ruling Grade Westbound	1.2	1.2	1.2	1.2	1.2
Length of Grade	4	4	4	4	4
Passenger Train Information					
Commuter Rail					
Trains/Day	2	6	8	12	12
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Trailing Tons/Train	300	280	350	420	420
Stops/Segment	2	2	2	3	3
Amtrak					
Trains/Day	16	16	20	30	30
Horsepower/Train	3,000	3,000	3,000	3,000	3,000
Gross Tons/Train	500	500	500	500	500
Stops/Segment	2	2	2	2	2
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	2	2	3	4	4
Horsepower/Train	15,000	15,000	15,000	16,000	16,000
Gross Tons/Train	3,250	3,250	3,500	4,000	4,000
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/HP/Job	2/3,500	2/3,500	2/3,500	2/3,500	2/3,500
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**APPENDIX 6-2**



**LIST OF SEGMENTS FOR THE  
ACCELERATED ELECTRIFICATION PROGRAM**

<b>Segment /Route</b>	<b>Segment Number</b>	<b>From / To</b>
LA-MT 2,3,4,5,6,7	1	LAupt Mission Tower
MT-EJ 2,3,4,6	2	Mission Tower East Junction
EJ-SS 2	3	East Junction State Street
SS-EM 2	4	State Street El Monte
EM-BA 2,11	5	El Monte BAssett
BA-NP 2	6	BAssett North Pomona
NP-CL 2	7	North Pomona CLaremont
CL-RA 2	8	CLaremont RiAlto
CL-SB 2	9	CLaremont San Bernardino
EJ-MF 3,4	10	East Junction Maintenance Facility
MT-MF	11	Mission Tower Maintenance Facility
MF-BB 3,4	12	Maintenance Facility BurBank
BB-SG 4	13	BurBank SauGus
BB-GE 3	14	BurBank GEmco
GE-MP 3	15	GEmco MoorPark
MP-SA 3	16	MoorPark SAnta Barbara
MT-RE 5,7	17	Mission Tower REdondo
RE-HO 5,7,12	18	REdondo HObart

<b>Segment /Route</b>	<b>Segment Number</b>	<b>From / To</b>
HO-DT 5,7,12	19	HObart DT jct.
DT-FU 5,7,12	20	DT jct. FULLerton
FU-OL 5	21	FULLerton OLive
OL-IR 5	22	OLive IRvine
SJ-OC 5	23	San Juan Capistrano OCeanside
OC-SD 5	24	OCeanside San Diego
SD-NC 5	25	San Diego National City
FU-AT 7,12	26	FULLerton ATwood
AT-WR 7,12	27	ATwood W Riverside
PO-JY 1,11,12,13	28	POrts LA/LB J-Yard
JY-SO 1,11,13	29	J-Yard SOto Street
SO-EY 1,6,13	30	SOto Street East Yard
EY-BO 1,6,13	31	East Yard Bartolo
BO-PU 1,6,13	32	Bartolo PUente jct.
PU-SD 1,6,13	33	PUente jct. SpaDra
SD-MC 1,6,13	34	SpaDra MontClair
MC-WR 6,13	35	MontClair W. Riverside
JY-RE 12	36	J-Yard REdondo

**SEGMENT MAP FOR THE  
ACCELERATED ELECTRIFICATION PROGRAM**

<b>Segment /Route</b>	<b>Segment Number</b>	<b>From / To</b>
SO-EJ 6,11	37	SOto Street East Jct.
EJ-AL 11	38	East Jct. ALhambra
AL-EM 11	39	ALhambra El Monte
CI-PA 1,11	40	City of Industry PomonA
PA-SM 1,11	41	PomonA S. Montclair
SM-WC 1,11	42	S. Montclair West Colton
WC-CO 11	43	West Colton COLton
CO-IN 11	44	COLton INDio
IN-YU 11	45	INDio YUma
EY-HO 1	46	East Yard HObart
DT-BO 1	47	DT jct. BartolO
OL-AT 9	48	OLive ATwood
CI-PU 1	49	City of Industry PUente jct.
PA-SD 1	50	PomonA SpaDra
SM-MC 1	51	Sp. Montclair MontClair
RS-HG 8,9,12,13	52	RiverSide HighGrove
HG-CO 9,12,13	53	HighGrove COLton
CO-BY 9,12,13	54	COLton B-Yard

<b>Segmen /Route</b>	<b>Segment Number</b>	<b>From / To</b>
BY-SB 9,12,13	55	B-Yard San Bernardino
SB-KB 11	56	San Bernardino KeenBrook
KB-SU 1,12,13	57	KeenBrook SUMmit
SU-VV 1,12,13	58	SUMmit VictorVille
VV-BA 1,12,13	59	VictorVille BARstow
BA-DA 1,13	60	BARstow DAGgett
DA-YY 1,13	61	DAGgett Yermo Yard
WC-NB 1	62	West Colton North Bridge
NB-DK 1	63	North Bridge DiKe
DK-HL	64	DiKe HiLand
HL-SU	65	HiLand SUMmit
DK-KB 1	66	DiKe KeenBrook
BY-NB	67	B-Yard North Bridge
SB-RE 10	68	San Bernardino ReDlands
HG-HE 8	69	HighGrove HEmet
BA-CI 11	70	BASsett City of Industry
RS-WR 6,7,12,13	71	RiverSide WRiverside
IR-SJ 5	72	IRvine San Juan Capistrano

**Segment #28C Detailed Info for Segment - PO-JY Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	24.4	24.4	24.4	24.4	24.4
# of Main Tracks/Miles	2/48.8	2/48.8	2/48.8	2/48.8	2/48.8
Other Tracks/Miles	5.0	5.0	5.0	5.0	5.0
Signal System	TWS	TWS	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound					
Length of Grade					
Ruling Grade Westbound					
Length of Grade					
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information				ATSF,SP,UP=Total	ATSF,SP,UP=Total
High Priority Trains/Day	NONE	NONE	NONE	5, 22, 7=34	10, 31, 11=52
Horsepower/Train	NONE	NONE	NONE	12,200	12,600
Gross Tons/Train	NONE	NONE	NONE	5,200	5,500
General Trains/Day	NONE	NONE	NONE	1, 3, 0=4	1, 3, 0=4
Horsepower/Train	NONE	NONE	NONE	12,000	12,500
Gross Tons/Train	NONE	NONE	NONE	4,600	4,800
Unit Trains/Day	NONE	NONE	NONE	2, 6, 6=14	4, 6, 7=17
Horsepower/Train	NONE	NONE	NONE	14,000	14,500
Gross Tons/Train	NONE	NONE	NONE	7,600	7,700
Misc. Train Activity					
Industrial Jobs/Day				A-3 + S-9 + U-4	A-3 + S-9 + U-4
# Units/Job	NONE	NONE	NONE	A-2/3,500 + S-1/2,000 + U-2/4,000	A-2/3,500 + S-1/2,000 + U-2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #29C Detailed Info for Segment - JY-SO Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.5	1.5	1.5	1.5	1.5
# of Main Tracks/Miles	1/1.5	1/1.5	2/3.0	2/3.0	2/3.0
Capital Expense	0.0				
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	34	52
Horsepower/Train	NONE	NONE	NONE	13,500	14,000
Gross Tons/Train	NONE	NONE	NONE	5,000	6,000
General Trains/Day	NONE	NONE	NONE	4	4
Horsepower/Train	NONE	NONE	NONE	11,400	11,800
Gross Tons/Train	NONE	NONE	NONE	4,600	4,800
Unit Trains/Day	NONE	NONE	NONE	14	16
Horsepower/Train	NONE	NONE	NONE	14,000	14,600
Gross Tons/Train	NONE	NONE	NONE	7,600	7,600
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	4	4
# Units/Job	NONE	NONE	NONE	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	3	3
# Units/Job	NONE	NONE	NONE	1/1,000	1/1,000
Other:					

**Segment #30C Detailed Info for Segment - SO-EY Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.0	1.0	1.0	1.0	1.0
Number of Main Tracks	2/2.0	2/2.0	2/2.0	2/2.0	2/2.0
Capital Expense	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-0.4	-0.4	-0.4	-0.4	-0.4
Length of Grade (miles)	2.0	2.0	2.0	2.0	2.0
Ruling Grade Westbound	+0.4	+0.4	+0.4	+0.4	+0.4
Length of Grade (miles)	2.0	2.0	2.0	2.0	2.0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	6	10	10	10
Horsepower/Train	NONE	3000	3000	3000	3000
Trailing Tons/Train	NONE	280	350	420	420
Stops/Segment	NONE	0	0	0	0
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	28	33
Horsepower/Train	NONE	NONE	NONE	13,500	14,000
Gross Tons/Train	NONE	NONE	NONE	5,000	6,000
General Trains/Day	NONE	NONE	NONE	3	3
Horsepower/Train	NONE	NONE	NONE	12,000	13,000
Gross Tons/Train	NONE	NONE	NONE	4,700	5,400
Unit Trains/Day	NONE	NONE	NONE	12	16
Horsepower/Train	NONE	NONE	NONE	14,000	14,500
Gross Tons/Train	NONE	NONE	NONE	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	4	4
# Units/Job	NONE	NONE	NONE	2/4,000	2/4,000
Yard Jobs/Day	3	3	3	3	3
# Units/Job	1/1,200	1/1,200	1/1,200	1/1,200	1/1,200
Other:					

**Segment #31C Detailed Info for Segment - EY-BQ Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	8.4	8.4	8.4	8.4	8.4
# of Main Tracks/Miles	1/14.9	1/14.9	2/16.8	2/16.8	2/16.8
Other Track Miles	10.0	10.0	10.0	10.0	10.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0.35	0.35	0.35	0.35	0.35
Length of Grade	2.0	2.0	2.0	2.0	2.0
Ruling Grade Westbound	-0.35	-0.35	-0.35	-0.35	-0.35
Length of Grade	2.0	2.0	2.0	2.0	2.0
Passenger Train Information					
Commuter Rail					
Trains/Day	0	6	10	10	10
Horsepower/Train	---	3,000	3,000	3,000	3,000
Trailing Tons/Train	---	280	350	420	420
Stops/Segment	---	1	1	1	1
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	36	45
Horsepower/Train	NONE	NONE	13,000	13,500	14,000
Gross Tons/Train	NONE	NONE	NONE	5,000	6,000
General Trains/Day	NONE	NONE	NONE	14	16
Horsepower/Train	NONE	NONE	NONE	12,000	13,000
Gross Tons/Train	NONE	NONE	NONE	4,700	5,400
Unit Trains/Day	NONE	NONE	NONE	12	16
Horsepower/Train	NONE	NONE	NONE	14,000	14,600
Gross Tons/Train	NONE	NONE	NONE	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	2	2
# Units/Job	NONE	NONE	NONE	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	14	14
# Units/HP/Job	NONE	NONE	NONE	1/1,200	1/1,200
Other:					

**Segment #32C Detailed Info for Segment - BO-PU Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	6.4	6.4	6.4	6.4	6.4
# of Main Tracks/Miles	1	2/12.8	2/12.8	2/12.8	2/12.8
Other Tracks/Miles	0	1.0			
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	+0.4	+0.4	+0.4	+0.4	+0.4
Length of Grade	6.4	6.4	6.4	6.4	6.4
Ruling Grade Westbound	-0.4	-0.4	-0.4	-0.4	-0.4
Length of Grade	6.4	6.4	6.4	6.4	6.4
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	6	10	10	10
Horsepower/Train	NONE	3,000	3,000	3,000	3,000
Trailing Tons/Train	NONE	280	350	420	420
Stops/Segment	NONE	0	0	0	0
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	36	45
Horsepower/Train	NONE	NONE	NONE	13,500	14,000
Gross Tons/Train	NONE	NONE	NONE	5,000	6,000
General Trains/Day	NONE	NONE	NONE	14	16
Horsepower/Train	NONE	NONE	NONE	12,000	13,000
Gross Tons/Train	NONE	NONE	NONE	4,700	4,100
Unit Trains/Day	NONE	NONE	NONE	12	16
Horsepower/Train	NONE	NONE	NONE	14,000	14,600
Gross Tons/Train	NONE	NONE	NONE	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	2	2
# Units/Job	NONE	NONE	NONE	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #33C Detailed Info for Segment – PU-SD Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	11.7	11.7	11.7	11.7	11.7
Number of Main Tracks	1/16.0	1/16.0			
Capital Expense	5.0	5.0	5.0	5.0	5.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	+0.85	+0.85	+0.85	+0.85	+0.85
Length of Grade	8.0	8.0	8.0	8.0	8.0
Ruling Grade Westbound	-0.85	-0.85	-0.85	-0.85	-0.85
Length of Grade	8.0	8.0	8.0	8.0	8.0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	6	10	10	10
Horsepower/Train	NONE	3,000	3,000	3,000	3,000
Trailing Tons/Train	NONE	280	350	420	420
Stops/Segment	NONE	1	1	1	1
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	28	45
Horsepower/Train	NONE	NONE	NONE	13,500	14,000
Gross Tons/Train	NONE	NONE	NONE	5,000	6,000
General Trains/Day	NONE	NONE	NONE	12	16
Horsepower/Train	NONE	NONE	NONE	12,000	13,000
Gross Tons/Train	NONE	NONE	NONE	4,700	4,100
Unit Trains/Day	NONE	NONE	NONE	12	16
Horsepower/Train	NONE	NONE	NONE	14,000	14,600
Gross Tons/Train	NONE	NONE	NONE	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	3	3
# Units/Job	NONE	NONE	NONE	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #34C Detailed Info for Segment – SD-MC Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.2	7.2	7.2	7.2	7.2
Number of Main Tracks	1/12.4	1/12.4	1/12.4	1/12.4	1/12.4
Capital Expense	2.0	2.0	2.0	2.0	2.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	+0.4	+0.4	+0.4	+0.4	+0.4
Length of Grade	3.0	3.0	3.0	3.0	3.0
Ruling Grade Westbound	-0.4	-0.4	-0.4	-0.4	-0.4
Length of Grade	3.0	3.0	3.0	3.0	3.0
Passenger Train Information					
Commuter Rail					
Trains/Day	0	6	10	10	10
Horsepower/Train	---	3000	3000	3000	3000
Trailing Tons/Train	---	280	350	420	420
Stops/Segment	---	1	1	1	1
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	6	7
Horsepower/Train	NONE	NONE	NONE	12,000	13,000
Gross Tons/Train	NONE	NONE	NONE	4,700	4,100
Unit Trains/Day	NONE	NONE	NONE	6	8
Horsepower/Train	NONE	NONE	NONE	14,300	14,600
Gross Tons/Train	NONE	NONE	NONE	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	4	4
# Units/Job	NONE	NONE	NONE	2/4,000	2/4,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #40C Detailed Info for Segment - CI-PA Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	13.3	13.3	13.3	13.3	13.3
# of Main Tracks/Miles	1/20.2	1/20.2	1/20.2	1/20.2	1/20.2
Other Track Miles	10.0	10.0	10.0	10.0	10.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.0	1.0	1.0	1.0	1.0
Length of Grade	3	3	3	3	3
Ruling Grade Westbound	-1.0	-1.0	-1.0	-1.0	-1.0
Length of Grade	3	3	3	3	3
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	3	4	4	4
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	12	17
Horsepower/Train	NONE	NONE	NONE	12,000	12,500
Gross Tons/Train	NONE	NONE	NONE	4,800	3,900
General Trains/Day	NONE	NONE	NONE	12	16
Horsepower/Train	NONE	NONE	NONE	11,800	12,000
Gross Tons/Train	NONE	NONE	NONE	5,200	
Unit Trains/Day	NONE	NONE	NONE	12	16
Horsepower/Train	NONE	NONE	NONE	14,300	14,600
Gross Tons/Train	NONE	NONE	NONE	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	7	7
# Units/HP/Job	NONE	NONE	NONE	2-4,000 HP	2-4,000 HP
Yard Jobs/Day	NONE	NONE	NONE	4	4
# Units/HP/Job	NONE	NONE	NONE	2/3,500*	2/3,500*
Other:					
* - Road Switcher assignments that have a duty cycle of a yard assignment					

**Segment #41C Detailed Info for Segment - PA-SM Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.0	7.0	7.0	7.0	7.0
# of Main Tracks/Miles	1/10	1/10	2/14	3/21	3/21
Other Tracks/Miles					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.5	.5	.5	.5	.5
Length of Grade	5	5	5	5	5
Ruling Grade Westbound	-.5	-.5	-.5	-.5	-.5
Length of Grade	5	5	5	5	5
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	3	4	4	4
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	56	65
Horsepower/Train	NONE	NONE	NONE	12,000	12,500
Gross Tons/Train	NONE	NONE	NONE	4,800	5,000
General Trains/Day	NONE	NONE	NONE	14	16
Horsepower/Train	NONE	NONE	NONE	11,800	12,000
Gross Tons/Train	NONE	NONE	NONE	5,200	
Unit Trains/Day	NONE	NONE	NONE	6	6
Horsepower/Train	NONE	NONE	NONE	14,300	14,600
Gross Tons/Train	NONE	NONE	NONE	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	2	2
# Units/Job	NONE	NONE	NONE	2-3,500 HP	2-3,500 HP
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #42C Detailed Info for Segment – SM-WC Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	17.7	17.7	17.7	17.7	17.7
# of Main Tracks/Miles	1/32.6	1/32.6	2/35.4	3/53.1	3/53.1
Other Tracks/Miles	25.0	25.0	25.0	25.0	25.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.2	.2	.2	.2	.2
Length of Grade	1	1	1	1	1
Ruling Grade Westbound	-.2	-.2	-.2	-.2	-.2
Length of Grade	1	1	1	1	1
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	3	4	4	4
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	56	65
Horsepower/Train	NONE	NONE	NONE	12,000	12,500
Gross Tons/Train	NONE	NONE	NONE	4,800	5,000
General Trains/Day	NONE	NONE	NONE	14	16
Horsepower/Train	NONE	NONE	NONE	11,800	12,000
Gross Tons/Train	NONE	NONE	NONE	5,200	6,000
Unit Trains/Day	NONE	NONE	NONE	12	12
Horsepower/Train	NONE	NONE	NONE	14,300	14,600
Gross Tons/Train	NONE	NONE	NONE	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	10	10
# Units/HP/Job	NONE	NONE	NONE	3/5,400	3/5,400
Yard Jobs/Day	NONE	NONE	NONE	18	18
# Units/HP/Job	NONE	NONE	NONE	2/4,000	2/4,000
Other:					
Includes West Colton Yard					

**Segment #43C Detailed Info for Segment – WC-CO Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.0	1.0	1.0	1.0	1.0
# of Main Tracks/Miles	2/2.0	2/2.0	2/2.0	2/2.0	2/2.0
Other Tracks/Miles	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-.7	-.7	-.7	-.7	-.7
Length of Grade	1	1	1	1	1
Ruling Grade Westbound	.7	.7	.7	.7	.7
Length of Grade	1	1	1	1	1
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	3	4	4	4
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	30	39
Horsepower/Train	NONE	NONE	NONE	12,000	12,500
Gross Tons/Train	NONE	NONE	NONE	5,800	6,000
General Trains/Day	NONE	NONE	NONE	10	10
Horsepower/Train	NONE	NONE	NONE	11,800	12,000
Gross Tons/Train	NONE	NONE	NONE	5,700	6,000
Unit Trains/Day	NONE	NONE	NONE	4	4
Horsepower/Train	NONE	NONE	NONE	14,300	14,600
Gross Tons/Train	NONE	NONE	NONE	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	4	4
# Units/Job	NONE	NONE	NONE	3/8,000	3/8,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					
Segment handled by yard assignments from West Colton Yard.					

**Segment #44C Detailed Info for Segment - CO-IN Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	72.2	72.2	72.2	72.2	72.2
# of Main Tracks/Miles	1/122.2	1/122.2	1/122.2	1/122.2	1/122.2
Other Tracks	5.0	5.0	5.0	5.0	5.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	1.7	1.7	1.7	1.7	1.7
Length of Grade	11	11	11	11	11
Ruling Grade Westbound	1.7	1.7	1.7	1.7	1.7
Length of Grade	17	17	17	17	17
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	1	2	2	2
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	30	39
Horsepower/Train	NONE	NONE	NONE	12,000	12,500
Gross Tons/Train	NONE	NONE	NONE	5,800	6,000
General Trains/Day	NONE	NONE	NONE	10	10
Horsepower/Train	NONE	NONE	NONE	11,800	12,000
Gross Tons/Train	NONE	NONE	NONE	5,700	6,000
Unit Trains/Day	NONE	NONE	NONE	4	4
Horsepower/Train	NONE	NONE	NONE	14,300	14,600
Gross Tons/Train	NONE	NONE	NONE	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	2	2
# Units/Job	NONE	NONE	NONE	4/12,000	4/12,000
Yard Jobs/Day	NONE	NONE	NONE		
# Units/Job	NONE	NONE	NONE		
Other:					
* - These jobs are entirely outside the scope of this study					

**Segment #45C Detailed Info for Segment – IN-YU Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	124.0	124.0	124.0	124.0	124.0
# of Main Tracks/Miles	1/193.2	1/193.2	1/193.2	1/193.2	1/193.2
Other Tracks	10.0	10.0	10.0	10.0	10.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	.8	.8	.8	.8	.8
Length of Grade	3	3	3	3	3
Ruling Grade Westbound	.7	.7	.7	.7	.7
Length of Grade	3	3	3	3	3
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	1	1	2	2	2
Horsepower/Train	5,000	5,000	5,000	5,000	5,000
Gross Tons/Train	720	720	720	720	720
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	30	39
Horsepower/Train	NONE	NONE	NONE	12,000	12,500
Gross Tons/Train	NONE	NONE	NONE	3,800	3,900
General Trains/Day	NONE	NONE	NONE	10	10
Horsepower/Train	NONE	NONE	NONE	11,800	12,000
Gross Tons/Train	NONE	NONE	NONE	4,700	4,800
Unit Trains/Day	NONE	NONE	NONE	4	4
Horsepower/Train	NONE	NONE	NONE	14,300	14,600
Gross Tons/Train	NONE	NONE	NONE	6,700	6,900
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE		
# Units/Job	NONE	NONE	NONE		
Yard Jobs/Day	NONE	NONE	NONE		
# Units/Job	NONE	NONE	NONE		
Other:					
* - These assignments are entirely outside the scope of this study.					

**Segment #46C Detailed Info for Segment – EY-HQ Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0.2	0.2	0.2	0.2	0.2
# of Main Tracks/Miles	1/0.2	1/0.2	1/0.2	1/0.2	1/0.2
Other Tracks/Miles					
Signal System	NONE	NONE	?		
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	15	18
Horsepower/Train	NONE	NONE	NONE	15,000	16,000
Gross Tons/Train	NONE	NONE	NONE	4,600	5,000
General Trains/Day	NONE	NONE	NONE	1	1
Horsepower/Train	NONE	NONE	NONE	12,500	13,000
Gross Tons/Train	NONE	NONE	NONE	4,400	5,000
Unit Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	2	2	2	2	2
# Units/Job	2/4,000	2/4,000	2/4,000	2/4,000	2/4,000
Yard Jobs/Day	2	2	2	2	2
# Units/Job	1-1,000	1-1,000	1-1,000	1-1,000	1-1,000
Other:					

**Segment #49C Detailed Info for Segment – CI-PU Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	1.6	1.6	1.6	1.6	1.6
# of Main Tracks/Miles	1/1.6	1/1.6	1/1.6	1/1.6	1/1.6
Other Tracks/Miles					
Signal System					
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	5	5	NONE	8	10
Horsepower/Train	11,400	11,400	NONE	12,000	12,500
Gross Tons/Train	3,440	3,440	NONE	5,800	6,000
General Trains/Day	2	2	NONE	2	NONE
Horsepower/Train	12,875	12,875	NONE	12,000	NONE
Gross Tons/Train	6,833	6,833	NONE	4,700	NONE
Unit Trains/Day	1	1	NONE	NONE	NONE
Horsepower/Train	11,400	11,400	NONE	NONE	NONE
Gross Tons/Train	9,010	9,010	NONE	NONE	NONE
Misc. Train Activity					
Industrial Jobs/Day	3	3	3	3	3
# Units/Job	2/5,000	2/5,000	2/5,000	2/5,000	2/5,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #50C Detailed Info for Segment – PA-SD Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0	0.1	0.1	0.1	0.1
# of Main Tracks/Miles	0	1/0.1	1/0.1	1/0.1	1/0.1
Other Tracks/Miles					
Signal System	NONE	CTC			
Capital Expense					
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	28	36
Horsepower/Train	NONE	NONE	NONE	14,500	15,200
Gross Tons/Train	NONE	NONE	NONE	4,200	4,900
General Trains/Day	NONE	NONE	NONE	12	16
Horsepower/Train	NONE	NONE	NONE	12,200	13,000
Gross Tons/Train	NONE	NONE	NONE	4,700	5,100
Unit Trains/Day	NONE	NONE	NONE	6	6
Horsepower/Train	NONE	NONE	NONE	11,100	11,700
Gross Tons/Train	NONE	NONE	NONE	7,500	7,500
Misc. Train Activity					
Industrial Jobs/Day	NONE				
# Units/Job	NONE				
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #51C Detailed Info for Segment – SM-MC Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0	0	0	0	0
# of Main Tracks/Miles	0	1/0.1	1/0.1	1/0.1	1/0.1
Other Tracks/Miles					
Signal System	NONE	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	NONE	0	0	0	0
Length of Grade	NONE	0	0	0	0
Ruling Grade Westbound	NONE	0	0	0	0
Length of Grade	NONE	0	0	0	0
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	6	6
Horsepower/Train	NONE	NONE	NONE	13,000	13,500
Gross Tons/Train	NONE	NONE	NONE	4,800	5,200
Unit Trains/Day	NONE	NONE	NONE	6	8
Horsepower/Train	NONE	NONE	NONE	NONE	14,600
Gross Tons/Train	NONE	NONE	NONE	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	3	3
# Units/Job	NONE	NONE	NONE	2/5,000	2/5,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #51C Detailed Info for Segment – SM-MC Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0	0	0	0	0
# of Main Tracks/Miles	0	1/0.1	1/0.1	1/0.1	1/0.1
Other Tracks/Miles					
Signal System	NONE	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	NONE	0	0	0	0
Length of Grade	NONE	0	0	0	0
Ruling Grade Westbound	NONE	0	0	0	0
Length of Grade	NONE	0	0	0	0
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
General Trains/Day	NONE	NONE	NONE	6	6
Horsepower/Train	NONE	NONE	NONE	13,000	13,500
Gross Tons/Train	NONE	NONE	NONE	4,800	5,200
Unit Trains/Day	NONE	NONE	NONE	6	8
Horsepower/Train	NONE	NONE	NONE	NONE	14,600
Gross Tons/Train	NONE	NONE	NONE	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	3	3
# Units/Job	NONE	NONE	NONE	2/5,000	2/5,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #57C Detailed Info for Segment - KB-SU Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	14.5	14.5	14.5	14.5	14.5
# of Main Tracks/Miles	2/29.0	2/29.0	2/29.0	2/29.0	2/29.0
Capital Expense	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	2.2	2.2	2.2	2.2	2.2
Length of Grade	13.5	13.5	13.5	13.5	13.5
Ruling Grade Westbound	-2.2	-2.2	-2.2	-2.2	-2.2
Length of Grade	13.5	13.5	13.5	13.5	13.5
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	29	33	36	42	51
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,676	3,800	4,200	4,700	5,000
General Trains/Day	18	18	18	19	20
Horsepower/Train	12,000	11,000	11,700	12,200	13,000
Gross Tons/Train	4,200	4,300	4,500	4,700	5,100
Unit Trains/Day	2	3	5	8	12
Horsepower/Train	9,500	10,000	10,600	11,100	11,700
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #58C Detailed Info for Segment – SU-VV Routes # 1**

	<b>1991</b>	<b>1993</b>	<b>1995</b>	<b>2000</b>	<b>2010</b>
Segment Length (Miles)	19.5	19.5	19.5	19.5	19.5
# of Main Tracks/Miles	2/39.0	2/39.0	2/39.0	2/39.0	2/39.0
Other Tracks/Miles	2.0	2.0	2.0	2.0	2.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound %	-1.5	-1.5	-1.5	-1.5	-1.5
Length of Grade	17.0	17.0	17.0	17.0	17.0
Ruling Grade Westbound %	1.5	1.5	1.5	1.5	1.5
Length of Grade	17.0	17.0	17.0	17.0	17.0
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	29	33	36	42	51
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,676	3,800	4,200	4,700	5,000
General Trains/Day	18	18	18	19	20
Horsepower/Train	12,000	11,000	11,700	12,200	13,000
Gross Tons/Train	4,200	4,300	4,500	4,700	5,100
Unit Trains/Day	2	3	5	8	12
Horsepower/Train	9,500	10,000	10,600	11,100	11,700
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #59C Detailed Info for Segment - VV-BA Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	36.9	36.9	36.9	36.9	36.9
Number of Main Tracks	2/3.8	2/3.8	2/3.8	2/3.8	2/3.8
Capital Expense	1.0	1.0	1.0	1.0	1.0
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-.5	-.5	-.5	-.5	-.5
Length of Grade	25.0	25.0	25.0	25.0	25.0
Ruling Grade Westbound	.5	.5	.5	.5	.5
Length of Grade	25.0	25.0	25.0	25.0	25.0
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	29	33	36	42	51
Horsepower/Train	13,400	13,800	14,100	14,500	15,200
Gross Tons/Train	3,676	3,800	4,200	4,700	5,000
General Trains/Day	18	18	18	19	20
Horsepower/Train	12,000	11,000	11,700	12,200	13,000
Gross Tons/Train	4,200	4,300	4,500	4,700	5,100
Unit Trains/Day	2	3	5	8	12
Horsepower/Train	9,500	10,000	10,600	11,100	11,700
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	1	1	1	1	1
# Units/HP/Job	2/6,000	2/6,000	2/6,000	2/6,000	2/6,000
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #60C Detailed Info for Segment – BA-DA Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.2	7.2	7.2	7.2	7.2
# of Main Tracks/Miles	2/14.2	2/14.2	2/14.2	2/14.2	2/14.2
Other Tracks/Miles	25.0				
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound %	-0.3	-0.3	-0.3	-0.3	-0.3
Length of Grade	5	5	5	5	5
Ruling Grade Westbound	0.3	0.3	0.3	0.3	0.3
Length of Grade	5	5	5	5	5
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	4	4	4	4	4
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	1	1	1	1	1
Freight Train Information					
High Priority Trains/Day	11	13	14	18	22
Horsepower/Train	12,400	13,000	13,000	13,500	14,000
Gross Tons/Train	4,400	4,600	4,700	5,000	6,000
General Trains/Day	7	7	7	8	9
Horsepower/Train	11,130	11,400	11,600	12,100	13,000
Gross Tons/Train	4,300	4,500	4,600	5,100	5,500
Unit Trains/Day	2	3	4	6	8
Horsepower/Train	9,500	10,000	10,500	11,000	11,500
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	N/A	N/A	N/A	N/A	N/A
# Units/Job	N/A	N/A	N/A	N/A	N/A
Yard Jobs/Day	N/A	N/A	N/A	N/A	N/A
# Units/Job	N/A	N/A	N/A	N/A	N/A
Other:					
N/A – These jobs are entirely					
outside the scope of this					
study.					

**Segment #61C Detailed Info for Segment - DA-YY Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	5.2	5.2	5.2	5.2	5.2
# of Main Tracks/Miles	2/10.4	2/10.4	2/10.4	2/10.4	2/10.4
Other Tracks/Miles	10.0	10.0	10.0	10.0	10.0
Signal System	CTC	CTC	CTC	CTC	CTC
Ruling Grade Eastbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Ruling Grade Westbound	0	0	0	0	0
Length of Grade	0	0	0	0	0
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	2	2	2	2	2
Horsepower/Train	6,000	6,000	6,000	6,000	6,000
Gross Tons/Train	750	750	750	750	750
Stops/Segment	0	0	0	0	0
Freight Train Information					
High Priority Trains/Day	11	13	14	18	22
Horsepower/Train	12,400	13,000	13,000	13,500	14,000
Gross Tons/Train	4,300	4,500	4,600	5,100	5,500
General Trains/Day	7	7	7	8	9
Horsepower/Train	11,130	11,400	11,600	12,100	13,000
Gross Tons/Train	5,324	5,400	5,500	5,900	6,100
Unit Trains/Day	2	3	4	6	8
Horsepower/Train	9,500	10,000	10,500	11,000	11,500
Gross Tons/Train	6,775	6,800	7,000	7,500	8,000
Misc. Train Activity					
Industrial Jobs/Day	N/A	N/A	N/A	N/A	N/A
# Units/Job	N/A	N/A	N/A	N/A	N/A
Yard Jobs/Day	N/A	N/A	N/A	N/A	N/A
# Units/HP/Job	N/A	N/A	N/A	N/A	N/A
Other:					
N/A – These jobs are entirely					
outside the scope of this					
study.					

**Segment #62C Detailed Info for Segment – WC-NB Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	5.8	5.8	5.8	5.8	5.8
# of Main Tracks/Miles	1/7.8	1/7.8	1/7.8	2/11.6	2/11.6
Other Tracks/Miles					
Signal System	CTC	CTC	CTC	CTC	CTC
Ruling Grade Eastbound	-2.2	-2.2	-2.2	-2.2	-2.2
Length of Grade	2	2	2	2	2
Ruling Grade Westbound	2.2	2.2	2.2	2.2	2.2
Length of Grade	2	2	2	2	2
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	36	51
Horsepower/Train	NONE	NONE	NONE	14,500	15,000
Gross Tons/Train	NONE	NONE	NONE	4,700	5,000
General Trains/Day	7	7	7	13	14
Horsepower/Train	12,840	12,840	12,840	12,200	13,000
Gross Tons/Train	4,725	4,725	4,725	4,700	5,100
Unit Trains/Day	NONE	NONE	NONE	8	9
Horsepower/Train	NONE	NONE	NONE	11,100	11,100
Gross Tons/Train	NONE	NONE	NONE	7,500	7,500
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #63C Detailed Info for Segment - NB-DC Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	7.8	7.8	7.8	7.8	7.8
Number of Main Tracks	1/9.5	1/9.5	1/9.5	2/15.6	2/15.6
Capital Expense	0				
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	-2.1	-2.1	-2.1	-2.1	-2.1
Length of Grade	8	8	8	8	8
Ruling Grade Westbound	2.1	2.1	2.1	2.1	2.1
Length of Grade	8	8	8	8	8
Passenger Train Information					
Commuter Rail					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	36	51
Horsepower/Train	NONE	NONE	NONE	14,500	15,000
Gross Tons/Train	NONE	NONE	NONE	4,700	5,000
General Trains/Day	7	7	7	13	14
Horsepower/Train	12,840	12,840	12,840	12,200	13,000
Gross Tons/Train	4,725	4,725	4,725	4,700	5,100
Unit Trains/Day	NONE	NONE	NONE	8	9
Horsepower/Train	NONE	NONE	NONE	11,100	12,000
Gross Tons/Train	NONE	NONE	NONE	7,500	7,500
Misc. Train Activity	NONE	NONE	NONE	NONE	NONE
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					

**Segment #66C Detailed Info for Segment - DK-KB Routes # 1**

	1991	1993	1995	2000	2010
Segment Length (Miles)	0.1	0.1	0.1	0.1	0.1
# of Main Tracks/Miles	1/0.1	1/0.1	1/0.1	2/0.2	2/0.2
Capital Expense					
Signal System	CTC	CTC	CTC	CTC	CTC
Capital Expense					
Ruling Grade Eastbound	0.0	0.0	0.0	0.0	0.0
Length of Grade	---	---	---	---	---
Ruling Grade Westbound	0.0	0.0	0.0	0.0	0.0
Length of Grade	---	---	---	---	---
Passenger Train Information					
Commuter Rail	NONE	NONE	NONE	NONE	NONE
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Trailing Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Amtrak					
Trains/Day	NONE	NONE	NONE	NONE	NONE
Horsepower/Train	NONE	NONE	NONE	NONE	NONE
Gross Tons/Train	NONE	NONE	NONE	NONE	NONE
Stops/Segment	NONE	NONE	NONE	NONE	NONE
Freight Train Information					
High Priority Trains/Day	NONE	NONE	NONE	36	51
Horsepower/Train	NONE	NONE	NONE	14,500	15,000
Gross Tons/Train	NONE	NONE	NONE	4,700	5,000
General Trains/Day	NONE	NONE	NONE	6	7
Horsepower/Train	NONE	NONE	NONE	12,200	13,000
Gross Tons/Train	NONE	NONE	NONE	4,700	5,100
Unit Trains/Day	NONE	NONE	NONE	8	9
Horsepower/Train	NONE	NONE	NONE	11,100	12,000
Gross Tons/Train	NONE	NONE	NONE	7,500	7,500
Misc. Train Activity					
Industrial Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Yard Jobs/Day	NONE	NONE	NONE	NONE	NONE
# Units/Job	NONE	NONE	NONE	NONE	NONE
Other:					



