Decision No. 83065

ORIGINAL.

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Investigation for the purpose of establishing a list for the fiscal year 1974-75 of existing and proposed crossings at grade of city streets or county roads most urgently in need of separation, or projects effecting the elimination of grade crossings by removal or relocation of streets or railroad tracks, or existing separations in need of alteration or reconstruction as contemplated by Section 2402 of the Streets and Highways Code.

Case No. 9663 (Filed February 13, 1974)

(Appearances are listed in Appendix A)

OPINION

This investigation was instituted by the Commission to establish the 1974-75 railroad-highway grade separation priority list as required by Section 2402 of the Streets and Highways Code which reads in part as follows:

"2402. Prior to July 1 of each year, commencing with 1974, the Public Utilities Commission shall establish a list, in order of priority, of projects which the commission determines to be most urgently in need of separation or alteration. Such priority list shall be determined on the basis of criteria established by the Public Utilities Commission..."

(a) Concern for public safety and convenience makes it desirable that an expanded program be undertaken that places the highest priority on eliminating the most hazardous railroad-highway grade crossings that continue to take the lives of the people of this state."

The use to which the priority list is to be put is set out in Section 2403 of the Streets and Highways Code:

"24)3. From the funds set aside pursuant to Section 19), as well as from any other funds that may be set aside for purposes of this chapter, the California Highway Commission shall make allocations for projects contained in the latest priority list established pursuant to Section 2402. Such allocations shall be made for preconstruction costs and construction costs; provided that where allocations are made to a local agency, the requirements of Sections 2406 and 2407 shall first be met."

Copies of the Order Instituting Investigation were served upon each city, county, and city and county in which there is a railroad-highway crossing, each railroad corporation involved, the Department of Transportation, the California Highway Commission, the League of California Cities, the County Supervisors Association, and other persons who might have an interest in the proceeding. Nine days of public hearing were held starting in Los Angeles on March 28, 1974 and ending in San Francisco on June 5, 1974, during which time 60 persons appeared and gave testimony or made statements concerning projects or other matters under consideration.

In previous years the California Public Utilities Commission was required by the Streets and Highways Code to establish a priority list by December 31 of each year. Legislation passed in 1973, part of which is cited above, made substantial changes as to the priority list and the allocation of funds for grade separation projects. The major changes are as follows:

- 1. The Public Utilities Commission is now required to establish a list by July 1 of each year.
- 2. The list is to be based on criteria established by the Public Utilities Commission.
- 3. In addition to projects on city streets and county roads, projects on conventional state highways are now eligible for funds.
- 4. Some projects are now eligible for an allocation of 80 percent of the estimated cost.
- 5. The total amount to be set aside each year for allocation to projects was raised from a total of \$10 million to \$15 million plus amounts carried over.

The projects which may be listed are described in Section 2400 of the Streets and Highways Code:

- "2400. For purposes of this chapter:
 - (a) 'Grade separation' means the structure which actually separates the vehicular roadway from the railroad tracks.
 - 'Project' means the grade separation **(b)** and all approaches, ramps, connections, drainage, and other construction required to make the grade separation operable and to effect the separation of grades. Such grade separation project may include provision for separation of nonmotorized traffic from the vehicular roadway and the railroad tracks. On any project where there is only one set of railroad tracks in existence, the project shall be built so as to provide for expansion to two sets of tracks when the Director of Transportation determines that the project is on an existing or potential major railroad passenger corridor. Such project may consist of:

$$P = \frac{\sum_{0}^{24} (V \times T)}{C} + SCF$$

Where:

P = Priority Index Number

V = Hourly Vehicular Volume

T = Hourly Train Volume

C = Total Cost of Separation
 (in thousand dollars)

SCF - Special Conditions Factor

The equation takes the summation of each of 24 hourly vehicular-train products divided by the estimated cost of the project and adds a special conditions factor to arrive at the P number. The 24 hourly summation of vehicular-train products is designed to gain a measure of the actual vehicular-train conflicts and a roughly comparative estimate of the delay time to be eliminated. However, because so few projects nominated by local agencies and others submitted hourly vehicular and train counts but rather submitted daily train and vehicular counts, the staff thought it proper to apply the same criteria to each of the projects and so proposed that a modified equation be adopted as the criteria as follows:

$$P = \frac{(\sum_{0}^{24} V) \times ADT}{C} + SCF$$

ADT - Average Daily Trains

The staff witness stated that the use of the modified equation would result in a lower priority index number at crossings where a majority of the trains actually pass during peak vehicular hours and results in a higher priority index number at crossings where the majority of trains actually pass in the nonpeak vehicular hours.

The estimated cost of a project would be arrived at by using the project cost as estimated by the agency submitting the nomination or where no estimate was submitted by using the following equation:

SC = (Road Cost + Bridge Cost) x Difficulty Factor Where:

SC = Separation Cost
Road Cost = (\$2,000 x Road Width) + \$34,000
Bridge Cost = Cost/Sq. Ft. x (Separation Length x Width)

Cost/Sq. Ft. = Base Cost + Lane Factor

Base Cost = No. Tracks

1	\$17.00
2	17.96
3	18.92
4	20.38

Lane Factor = No. Lanes

2	0.50
4	0.30
6	0.20
8	0.10

Separation Length = (No. Tracks \times 15) + 90

Separation Width = No. Lames

2	*	40*
4	,	64*
6		881
8		1121

Difficulty Factor = No. Lanes

2	1.5
4	3.0
6	4.5
8	5.5

In support of its position to include the cost of a project as a factor in the equation, the staff witness stated that the judgment of the project for the public's safety at railroad-highway crossings must take place because the State, railroads, and community have only limited funds available and thus economics are a part of railroad-highway crossing safety; the public and private sector must receive the most for their dollar spent, so a benefit-to-cost relation must be developed. The staff witness stated that the staff believed that engineering judgment, expressed as the special conditions factor, was needed to impartially compare all four types of projects and that the SCF factor should be divided into the following categories with points awarded for extraordinary conditions in each category:

- 1. Hazard Factor
 - a. Number and severity of vehicle-train accidents.
 - b. Hazard created in immediate area by presence of grade crossing.
- 2. Traffic Necessity Factor
 - a. Availability of alternate routes for emergency vehicles.
 - b. Amount of school bus and commercial traffic.
 - c. Significant pedestrian traffic.
- 3. Community and Economic Development Factor
 Positive environmental and economic benefit to the
 community.
- 4. Feasibility Factor

Weight to be accorded Streets and Highways Code Section 2400-2411 as relevant to the elimination of the hazards addressed by the priority list, including:

- a. Types and percentages of costs for which allocations may be made (Sections 2403, 2404(a), (b), (c), (d), (e), and (f), and 2407).
- b. Availability of local funds, compliance with PUC orders, and environmental report requirements (Section 2406).
- c. Possibility or probability of construction contract being awarded within one year, and of sufficient progress towards completion of the project (Section 2408).
- d. Possibility of supplementary allocation if construction costs exceed estimates (Section 2409).
- e. Possibility of project on the state highway system complying with the allocation limitations of Streets and Highways Code 188 and 188.8 (Section 2411).

5. Reconstruction Factor

- a. The physical condition of the existing separation structure itself.
- b. The number and severity of accidents caused by substandard clearances.
- c. The need for increased capacity.

The representatives of the Southern Pacific Transportation Company and of The Western Pacific Railroad Company system, interested parties, objected to our placing any project on the list unless a representative of the governmental agency having jurisdiction over the project appeared at the hearing and submitted the project into evidence and subjected himself to cross-examination about the project. The reason for this objection was that the railroads will be required to contribute some money to each of the projects ultimately approved by the CHC, and hence the railroads should be accorded the right to cross-examine concerning each of the projects proposed

for the list as required by due process of the law. The Order Instituting Investigation requested all government agencies and interested parties to submit projects along with information about the projects to the Commission prior to the hearing. The Commission staff summarized these submissions along with the staff's own submissions in Exhibits 2 and 2A introduced into evidence over objections of the railroads. The examiner announced early in the proceedings that the submissions containing the facts and figures summarized in Exhibits 2 and 2A were received into the Commission's formal files in the case and were available for inspection by any interested parties. The Commission staff contends that in establishing the priority list the Commission is performing a legislative function and that there are no statutory or constitutional requirements that an evidentiary hearing be held in connection with the discharge of such function.

The criteria proposed by the staff was criticized in whole or in part by some of the parties to the proceeding: The relative urgent need cannot be determined by the application of an algebraic formula; use of the criteria for alteration projects (grade crossings already separated) was unrealistic; the cost of the project has no bearing on urgent need; using mere staff engineering judgment in assigning the SCF number without a full disclosure of the reason therefor was arbitrary; community and economic development in relation to a project should not be accorded any weight; application of the criteria to some multiple crossing projects results in a distortion giving that project a higher priority number than to other projects; the state of readiness of a project and the ability of the local agency to finance the project should not be accorded any weight in the criteria. The witness for the Southern Pacific system proposed that for the evaluation of reconstruction or alteration projects we use the formula $P = \frac{V}{C} + S_{\Delta}$ where S_{Δ} equals the obsolescence factor with a maximum of 50 points.

Appendix B lists in alphabetical order the projects nominated for the 1974-75 priority list, and opposite each project is set forth the information necessary to apply the staff's proposed criteria as well as the priority number resulting from the application of the proposed criteria. The staff witness testified that the 94 staff nominations were chosen because, based on information contained in the Commission's records, these projects had the highest V x T products. The estimated cost of each of these projects was arrived at as explained above, or from cost data available from the agency having jurisdiction over the project, or from updated cost data previously submitted by the agency. The vehicle and train counts came either from the Commission's records or from the agency having jurisdiction over the project. Of the 94 projects nominated by the Commission staff, 60 were also nominated by the local or state agency.

Two of the projects, the Farallon Drive crossing in the city of San Leandro and the March Lane crossing in the city of Stockton, were nominated by the railroads involved. The nominations were opposed by the cities involved because the cities are presently applicants before this Commission seeking approval to open an atgrade crossing at those points, and the cities fear that the placing of the projects on the priority list at this time would enable the respective railroads, who are protesting the applications, to collaterally utilize any determination reached in this proceeding in an attempt to foreclose appropriate consideration of the full merits of the applicants' cases. The railroads contend that their nominations are proposed at-grade crossings, and when the projects are measured by the staff's proposed criteria the projects would have a priority number within the span of priority numbers of the other projects under consideration. The staff concurs with the cities.

Local agency witnesses supporting some of the projects, which consist of a separation in lieu of a proposed at-grade crossing, testified that their agency would never build an at-grade crossing at or near the site of the proposed separation due to impossibility of construction or for other reasons, and the issue was raised as to whether or not such a project could properly be considered a proposed crossing at grade nominated for separation.

The CHC objects to the staff's classification of the Ridge Route Drive project in Orange County as being a proposed crossing nominated for separation rather than as being an alteration of an existing separation. There is currently in existence at that point two large metal pipe culverts side by side through an embankment supporting railroad tracks. The culverts connect two public thoroughfares, are paved, and are habitually used by the public's vehicles though the culverts are not on any state highway, city street, or county road. The staff contends that since the culverts are not on any publicly owned thoroughfare they cannot be considered an existing separation. The CHC contends that the public's habitual use of the culverts, whether on private property or not, renders the way an existing separation.

The inclusion of the city of Bamming project on the list, except on a conditional basis, was objected to by the CHC because Bamming's application for funds has been approved by the CHC, the CHC has already made an allocation of funds for the project, and the city is presently under contract with the State of California to construct the project. The witness for the city of Bamming testified that the actual cost of the project far exceeded the city's estimates and that it does not have enough money to go forward with the project, that the city has requested cancellation of the allocation and its contract

with the CHC, and that upon such cancellation it would hope to proceed under the new law which would require a lower amount of matching funds from the city and permit it to proceed with the project. The staff contends that to remove the project from the list out of hand on the basis of a contract which is not binding on the Commission would not properly serve the purposes of the Commission in establishing a priority list.

Findings

- 1. The staff's use in its proposed criteria of the product of the average hourly number of vehicles times trains identifies the accident exposure at each railroad-highway crossing and forms a reasonable basis for our ultimate determination of the relative urgency of each project.
- 2. The funds available for allocation each year are limited, and the inclusion of a factor in the criteria which raises or lowers the rank of a project depending upon the dollar spent in relation to the crossing safety achieved may, as the staff has done in its proposed criteria, be considered in our ultimate determination of the relative urgency of a project. Section 2409 of the Streets and Highways Code implies that we may do so. The last sentence of that section reads: "An allocation, however, need not be made for a supplemental allocation, unless the commission [California Highway Commission] is satisfied that funds would have been allocated for the project had the actual costs been used in determining its ranking on the priority list."
- 3. To impartially compare all types of projects and to give weight to special tangible and intangible conditions which in the Commission's judgment bear on the urgency of the need for separation or alteration of a particular project, the criteria may include a special conditions factor.

- 8. The criteria or rules of the Commission established for use in determining the 1974-75 priority list are subject to modification, and we invite the participation of interested parties in these yearly proceedings to suggest modifications. A separate proceeding to establish, change, or modify the criteria, as suggested by some of the parties, is unnecessary.
- 9. The priority list is for use by another state government agency in allocating government funds by that agency to state and local government agencies for use in helping to defray the cost to the latter agencies of certain railroad-highway projects.

- for inclusion on the priority list, has delegated to this Commission ceedings as in cases requiring evidentiary hearings which, in view of could lead to interminable proceedings and thwart our statutory duty to establish a list for each year by July 1 when appeals on technical grounds would be filed and above all nullify the safety program held to be of great importance by the Legislature. We will, however, continue to accord interested persons the opportunity to participate in these yearly proceedings through submission of written or oral
- 12. Written submissions of nominations in response to our Order Instituting Investigation may properly be taken into our consideration in establishing the yearly priority list without the necessity of the person or agency submitting the nomination appearing at the hearing for cross-examination unless requested by the Commission.

data and views or arguments with or without the requirements for

oral presentation.

13. The list set out on Appendix C should be established as the 1974-75 grade separation priority list established in accordance with Section 2402 of the Streets and Highways Code.

Conclusion

The projects listed on Appendix C should be established as the 1974-75 list, in order of priority, of projects which the Commission determines to be most urgently in need of separation or alteration.

ORDER

IT IS ORDERED that:

- 1. The list of projects appearing on Appendix C is established, as required by Section 2402 of the Streets and Highways Code, as the 1974-75 list, in order of priority, of projects which the Commission determines to be most urgently in need of separation or alteration.
- 2. The Secretary shall furnish a full, true, and correct copy of this decision and order to the Department of Transportation.

	Dated at	San Francisco	California, this 3526
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APPENDIX A

LIST OF APPEARANCES

Interested Parties: Alton Ruden, for the City of Oceanside; Michael D. Klipa, for City of Montebello; Roger A. Grable, Attorney at Law, for City of Irvine; Talmadge Burke, Mayor, Clifford Lampman, Arthur E. Coulet, and Leroy E. Moeller, for City of Alhambra; Harold S. Lentz, Attorney at Law, for Southern Pacific Transportation Company and subsidiary railroad corporations; <u>Leslie E. Corkill</u>, for Department of Public Utilities and Transportation of City of Los Angeles; Ronald L. Schneider, Deputy County Counsel, and John J. McBride, for Los Angeles County; Melvin R. Dykman and O. J. Solander, Attorneys at Law, for State of California Department of Transportation and California Highway Commission; Harold Callahan, for County of Santa Barbara and State Department of Transportation; Edward R. James, for City of Pomona; Gerald Wayne Wickstrom, Attorney at Law, for City of Corona; Gerald Taylor, for Buena Park and Oceanside; Charles S. Mink, for Ventura County Department of Public Works; Juan Mijares, Attorney at Law, for City of Barstow; Richard B. Gluck, for City of Claremont; Roger V. Sanchez, Mayor, Richard B. Gluck, for City of Claremont; Roger V. Sanchez, Mayor, Pro Tem, for Guadalupe; David F. Dixon, for City of Banning; Councilman Shubin, William Bradley, and Clay Dillman, for City of San Marcos; Rex Davidson, for County of Imperial; Gary P. Dysart, for Cities of Norwalk and Paramount; Frank F. Forbes, for City of San Gabriel; Dwight French, for Cities of San Gabriel and Loma Linda; John R. Price, for City of Santa Fe Springs; Allen D. Morrison, for City of Ontario; M. Glenn Weaver, for City of Torrance; Robert J. Warner, for City of Simi Valley; Ronald L. Johnson, Attorney at Law, for City of San Diego; Hugh L. Berry, for City of Fullerton: John Wallo, for County of Hugh L. Berry, for City of Fullerton; John Wallo, for County of San Luis Obispo Engineering Department; Tom Shreve, for City of Santa Clara; Richard W. Bridges and John C. Miller, for The Western Pacific Railroad Company; Ronald Leri, Supervisor, James Pharris, and John Middlebrook, for County of Yuba; Frances Owen, Mayor, City of Marysville, for Cal Trans 70; Robert N. Trout, for Fresno County Department of Public Morris. James Lindowen, for City of County Department of Public Works; James Lundgren, for City of Hayward; Harold McDonald and Clay Castleberry, for County of Butte; Ted W. Shettler, for Cities of El Monte, Pomona, and Stockton; Robert M. Barton, for Cities of San Bernardino, Banning, Livermore, Pittsburg, Milpitas, and Sacramento; David Pelz, for City of Davis; Maurice Shir, for Courty Courty Laborated Laboratory of Courty of Davis; Maurice Shiu, for Contra Costa County; Lyle L. Lopus, Attorney at Law, for City of San Leandro; Perry H. Taft, Attorney at Law, for City of Stockton; and Ralph Mohagen, for City of Richmond.

Commission Staff: Freda E. Abbott, Attorney at Law, William L. Oliver and John P. Ukleia.

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	and the state	SPT	B-487.4/B-489.4	\$13,200,000	108,712	44	15.1	6	21.1
Alhanbra	SPT Lowering			4,500,000		44	10.7	1	11.7
Anaheim	Katella Avenue	SPT	BK-508.5	4,250,000		84	20.6	5	25.6
Anaheim	Lincoln Avenue	ates p	2-170.3	3,300,000		6	2,3	5	\bigcirc 3
Anaheim	State College Boulevard	AT&SP/UP		12,000,000		18	7,4	5	22,4
Anaheim	AT&SF/UP Lowering	WI@SI/OL	•	12,000,000					
		o DVD	B-312,3	2,000,000	8,000	36	6.0	•	6.0
Bakersfield	Union Avenue	SPT	B-567.7	1,300,000		49	3,2	22	25.2
Banning	Eighth Street	SPT	2-746.5	3,065,040		58	6,3	-	6.3
Barston	Barstow Road	AT&SF		3,000,000		76	24,3	-	24.3
Belmont*	Ralston Avenue	SPT	E-22.0	900,000		2	1.0	1	2.0
Brea	Birch Street	SPT	BBJ-509,31	300,000	11,200	_	-•,		
			-11 FAL /	2 201 000	35,584	25	15.6	•	15.6
Buena Park	Beach Bouleyard	SPT	BK-504.6	2,381,000		72	11,5		11.5
Burlingame*	Broadway	SPT	E-15,2	5,200,000		57	4.1	-	4.1
Butte County	Baggett-Marysville	WP	4-202.7	745,000	*	22	5,3	3	8.3
Butte County	Midway County Road	SPT	C-179.5	860,000			2,9	10	12,9
CALTRANS*	State No. 17	AT&SF	2-1190,2	3,000,000	20,700	10	an an an an an an an an		
***					25,400	15	8.4	1	9.4
CALTRANS*	State No. 19	SPT	BBC-497.36	1,900,000	•	30	ž. 7	20	27.7
CALTRANS	State No. 29	SPT	AA-61,7/AB-62,0	3,680,000		52	14.7	12	26.7
CALTRANS	State No. 31	AT&SF	2B-24,1	3,535,000		15	8.8	2	10.8
CALTRANS	State No. 49	SPT	AH-126,3-B	996,000		40	5.7	5	10.7
CALTRANS	State No. 70	SPT	C-141.7-B	3,625,000	12,478	40	200	,	****
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CALTRANS	State No. 79	SPT	B-562.4	1,060,000			11.3	2	13.3
CALTRANS	State No. 84-Kegler Drive	e SPT	A-87.6	1,500,000		31		-	6,6
CALTRANS	State No. 111	SPT	B-611.45	2,179,000		44	6.6	2	18.1
	State No. 112	SPT	L-14.9	2,380,000		75	15.1	3 3	
CALTRANS	State No. 151	SPT	C-266.2-B	300,000	4,900	26	17.7	3	• 7
CALTRANS	State MAY 151				•				• • • •
	State No. 166	SPT	E-276,8	970,000	5,500	32	7.6	3 .	10.6
CALTRANS		SPT	E-37.1-A	1,380,000	23,410	54	38.2	l	39.2
CALTRANS	State No. 237	SPT		100,000	•	6	75.0	1	76.0
Claremont	"BBO" Relocation	SPT	B-36.9-A	950,000		43	4.8	10	14.8
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El Monte*	Ramona Boulevard	SPT	B-495.1	2,000,000	31,000	30	19.4	5	24.4
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Fresno Co.	Clovis Avenue	SPT	B-213.3	1,920,000	10,946	23	5.5	2	7.
Fullerton	Lemon Street	AT&\$F/UP	2-165,1/34-17.6	2,770,000	16,045	48	11,6	3	14.
Hayward	"A" Street	SPT	D-20.0	5,000,000	33,918	30	8.5	5	13.
Hayward	"A" Street	WP	4-20.2	2,500,000	22,201	. 12	4.4	1	5.
Hayward	Harder Road	SPT	D-21.6	1,800,000	24,295	19	10.7	3	13.
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Hayward	Tennyson Road	SPT	D-23,0	2,000,000	21,430	11	4.9	2	
layward	W. Winton Avenue	Spt	L-20,2	1,500,000	3,063	52	4,4	. •	4.
luntington Bch.	Ellis Avenue	SPT	•	165,860	1,000	1/vk	0.04	• .	0.
	"BAA" Elimination	SPT	•	198,000	35,900	1/wk	1,1	2	3,
Imperial Co.	Quick Road	SPT	B-728.3-B	105,000	100	29	1,2	25	26.
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		AT&SF	•	1,325,000	17,000	15	8,0	1	9.
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arkspur		SFT/WP	4-46.7/0-46.0	750,000	19,760	23	25.2	6	31
ivermore	Murrieta	SIT	B-543.6	2,550,000	3,909	31	2.0	1	1 3
oma Linda	Mountain View		3B-1.42	2,260,000	11,636	83	17.8		17.
os Angeles*	No. Hain Street	UP		1,500,000	25,000	53	36.8		-
os Angeles*	Santa Fe	SPT	ввн-496,62	1,300,000	29,000	,	3410		
os Angeles	Tampa Avenue	SPT	E-448.8	1,800,000	18,423	23	9.8	-	9,
ne ingotos	Alameda Street	SPT	BBL-491.91	1,695,000	25,000	4	2.5	. e •	2.
	Century Freeway	SPT	Relocation	7,000,000	117,400	4	2.8	5	7.
vos vugeres co.	Cl Coundo Roulovard	ATESF	2н-14.1	1,292,509	32,830	35	37.0	3 ·	40.
	El Segundo Boulevard	SPT	BBH-488,43	1,670,000	26,300	6	3.9	•	3,
Los Angeles Co.	Florence Avenue	orr	DD11-400145		rale A.	7	* * *		

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Los Angeles Co.	Florence Ave.	AT&SF	2-154,87	1,265,000		43	6.4	_	6.4
Los Angeles Co.	Grand Ave.	SPT/UP	3-26.38/B-508.5		8,000	36	15.4	1	· 🅌
Los Angeles Co.	Hacienda Blvd.	SPT	B-500.5	3,097,500	31,844		2.9	2	4,9
Los Angeles Co.	Hollywood Hay	SPT	B-469.4	4,167,000	19,396	. 17	2.7		412
tan America On '	Avenue "J"	SPT	B-406.1	5,486,000	20,749	27	4.3	2	6.3
Los Angeles Co.	190th St.	atesf	2H-19,1-B	1,194,000	23,000	15	12.0	-	12.0
Los Angeles Co.**	Atlantic Ave.	SPT	BBL-494.29	1,000,000	26,000	2	2.2	•	2,2
Lynwood *		SPT	BBL-492.95	1,695,000	25,000	2	1,2	-	1.2
Lynwood *	Long Beach Blyd.		B-96.5/75B-4.6	700,000	4,363	35	9,1	1	10,1
Manteca	Center St.	211/102	P MANAGE IN	,,,,,,	.,.,.		, ,		
Montana	Yosemite Avenue	SPT/TUS	B-96,7/75B-4.8	807,000	18,891	35	34,1	3	37.1
Manteca	Greenwood Avenue	AT&SF	2-149.5	3,500,000	12,186	46	6,7	2	8,7
Montebello	Montebello Avenue	UP	3-8.5	4,000,000	11,456	22	2.6	2	4.6
Montebello	Castro Street	SPT	E-35.9	2,200,000	23,617	64	28.6	\$	33.6
Mountain View *	Rengstorff Avenue	SPT	E-34.7	3,000,000	15,650	64	13,9	-	13.9
Mountain View *	Kengatorir Avenue	211	4 3 117	*********			•		
37	Imperial Highway	SPT	BK-498.0	1,822,490	32,305	• 10	7.4	5	12.4
Norwalk Oakland	Adeline Street	SPT/WP	D-5.9-A	3,500,000	10,500	100	12.5	5 .	17.5
=	Fruityale Avenue	SPT	D-9.8	2,000,000	13,087	103	28.1	-	28.1
Oakland *	AT&SF Lowering	AT6SF	· · · · · · · · · · · · · · · · · · ·	16,000,000	32,573	18	1.5	5 .	6.5
Oceanside	Grove Street	UP	3-39.0	2,000,000	8,200	20	3,4	2	5.4
Ontario	Grove Street		* * *			*.			
Overen County	Los Alisos Boulevard	AT6SF	2-190.7	300,000	2,000	16	4,4	- '	4.4
Orange County	Ridge Route Drive	AT&SF	2-187.6	200,000	3,000	16	10.0		10.0
Orange County	Victoria Boulevard	AT&SF	2-199.8	580,000	1,000	16	1.1	-	1,1
Orange County	Alondra Boulevard	UP	3A-12.3	1,850,000	19,943	14	6,3	. 5	11.3
Paramount	Rosecrans Avenue	UP	3A-11.3	2,450,000	24,023	14	5.7	-2	
Paramount	Kosectane Menne	•				· ·			
Pittsburg	Remoyal	รท	8N-1.85/8N-2.6	489,425	15,091	3.5	4.5	10	14.5
Ponona	Dudley Street	UP/SPT	3-30.5/B-513.0	6,075,000	6,000	56	2.3		2.3
Родопа	Roselavn	SPT	B-511,8	1,563,000	10,000	41	10,9	•	10.9
Redwood City *	Whipple Avenue	SPT	E-24.8	3,000,000	30,500	76	32,2	. 5	37,2
Rialto	Riverside Avenue .	AT&SF	2-84.8	1,464,000	13,577	11	4,3	2	6.3
******	timinatorna seinen .		- * * * * * * * * * * * * * * * * * * *						

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				1	1	Daily		•	
1			Crossing	1 Estimated	Wehicular		: Criteria		
i Public Agency i	Crossing 1	Railroad	Number	: Cost	1 ADT	1Volume	1(VxT)+(Cx24)1	SCF 1	Total
			•				•	•	. `
Richmond Cutt	ing Boulevard	SPT	A-13.8	\$1,750,000	24,000	52	29.7	3	32.7
	nt Pinole Park	SPT	A-19.3	220,000	750	46	6.5	3	9.5
		SPT/ATSF	A-14.5/2K-1.8-B	5,250,000	20,000	100	15,9	. 2	17.9
** ** **	th 47th Street	SPT	A-13.1	1,600,000	9,800	52	13.3	2	15.
• • • • • • • • • • • • • • • • • • • •	- Abandonment	SPT	•	200,000	75,370	· 2	31.4	1	32,4
Juctumente III	1100110410110114	7			•				
Sacramento 28th	n Street	SPT	A-91.0	243,253	1,570	48	12.9	1	13.9
	l Street	ATSP	2B-1.3	2,900,000	9,000	200	25.9	2	27.9
	lto Avenuo	ATSF	2B-0.7	450,000	11,517	48	51.2	•	51.2
	ly Street	SPT	E-23.2	3,800,000	17,306	76	14.4	1	15.4
	or Drive	ATSF	2-268.9-A	1,175,000	15,100	47	25,2	15	40.2
San Diego Harr	DOT BLEAC	******	4044 11	_,_,,,,,,					
Con Diago Tros	erial Avenue	SD&AE	36D-3,1-B	400,000	9,710	2	2,0	5	7.0
•	the Avenue	SDSAE	36-13.8	900,000	3,300	4	0.6	4	4.6
•	Lowering	SPT	30-13-0	9,000,000	68,546	44	14.0	5	19.0
		SPT	E-64.0	2,250,000	562	18	0,2	2	2.2
	ley Avenue	SPT	E-61.0	3,100,000	3,815	22	1,1	1	2,1
San Jose Berr	nal Road	SPI	E-0110	3,100,000	4,04,5				- •
	• •	on m	E-57.3	3,100,000	5,360	22	1,6	2	3.6
	nham Lane	SPT	E-31.3	2,500,000	21,000	14	4,9	•	4.9
	kaw-Murphy Road	SPT	DA-46.4/DA-46.2	4,500,000	11,046	14	1.4	3	4,4
	4th Street	SPT	· • • • • • • • • • • • • • • • • • • •	840,000	8,500	41	17.3	2	19,3
	allon Drive	SPT	I,-16.7	808,500	302	12	0,2	30	30.2
San Luis Obispo Eigh	ith Street	SPT	E-222.01-A	000,000			V • •	**	
	to the death He	Amon :	2E-14,5	1,205,000	11,212	10	3.9	-	3.9
	sion/Rancho Santa Pe	ATSF	2E-16.5	1,300,000	14,200	10	5.7	2	7.7
	sion/Twin Oak	ATSF	5F-10.3		11,000	76	14.5	-	14.5
	rie Neadows Drive	SPT	- 265 7 n	2,400,000	13,010	16	3,3	10	13.2
Sta. Barbara Co.Holl		SPT	E-365.7-B	2,600,000		- 26	9,7	**	9,5
Santa Clara Ches	stnut Street	SPT	L-41.9	180,000	1,605	20	711		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			m. 10 1/m. 10 0	20.000	1 225	2	3.7	_	3.7
Santa Clara Co. Pros	spect/Stelling	SPT	EN-43.1/EN-42.8	30,000	1,335	34	31,1	5	36.1
Santa Fe Springs Impe	erial Highway	ATSF	2-156,1	1,500,000	32,970	39	5.7	í	6.7
Santa Fe Spring Sant			2-154.1	1,500,000	5,260	40	27.9	3	30.9
Santa Fe Springs Tele		ATSP	2-154.6	1,500,000	25,100	•		y	6.6
Simi Valley Made	era Road	SPT	E-432.0	2,400,000	19,000	20	6,6		y•V

		; Crossing	: Estimated	! !Vehicular	Daily Train	! Criteria	Evaluati	lon
Crossing	Railroad	·	Cost	1 ADT	:Volume	1(VxT)+(Cx24)1	SCF 1	Total
Grand Avenue	SPT	E-9.3	\$2,000,000	10,000	76	15.8	2	17.8
March Lane	WP	4-96.9	1,000,000		14	11.7	2	13.7
	y		3,950,000 3,000,000		54 64		77	21
Crenshay Blyd.	Atesf	2н-20.9			18	10.2	•	10.2
Del Amo Boulevard	AT&SF	2H-19.5-A			36	12,5	•	12.5
SPT Relocation Pasado Road	8PT WP	"BBG" Relocation 4-176.1	1,100,000		3 19	11.3	-	11.3
	Grand Avenue March Lane Miner Avenue Wolfe Road Crenshav Blyd. Dal Amo Boulevard SPT Relocation	Grand Avenue SPT Varch Lane WP Miner Avenue WP/SPT Wolfe Road SPT Crenshav Blyd. AT&SF Del Amo Boulevard AT&SF SPT Relocation SPT	Grand Avenue SPT E-9.3 Warch Lane WP 4-96.9 Miner Avenue WP/SPT 4-93.9-B/D-91.2- Wolfe Road SPT E-39.7 Crenshav Blvd. ATESF 2H-20.9 Del Amo Boulevard ATESF 2H-19.5-A SPT Relocation SPT "BBG" Relocation	Crossing (Railroad) Number 1 Cost Grand Avenue SPT E-9.3 \$2,000,000 Warch Lane WP 4-96.9 1,000,000 Miner Avenue WP/SPT 4-93.9-B/D-91,2-B 3,950,000 Wolfe Road SPT E-39.7 3,000,000 Crenshav Blvd. AT&SF 2H-20.9 2,500,000 Del Amo Boulevard AT&SF 2H-19.5-A 2,400,000 SPT Relocation SPT "BBG" Relocation 1,100,000	Crossing (Railroad) Number Cost ADT Grand Avenue SPT E-9.3 \$2,000,000 10,000 Warch Lane WP 4-96.9 1,000,000 20,000 Miner Avenue WP/SPT 4-93.9-B/D-91.2-B 3,950,000 18,174 Wolfe Road SPT E-39.7 3,000,000 15,466 Crenshav Blvd. AT&SF 2H-20.9 2,500,000 34,138 Del Amo Boulevard AT&SF 2H-19.5-A 2,400,000 20,000 SPT Relocation 8PT "BBG" Relocation 1,100,000 80,435	Crossing Estimated Vehicular Train Cost ADT IVolume Grand Avenue SPT E-9.3 \$2,000,000 10,000 76 March Iane WP 4-96.9 1,000,000 20,000 14 Miner Avenue WP/8PT 4-93.9-B/D-91.2-B 3,950,000 18,174 54 Wolfe Road SPT E-39.7 3,000,000 15,466 64 Crenshav Blvd. ATESF 2H-20.9 2,500,000 34,138 18 Del Amo Boulevard ATESF 2H-19.5-A 2,400,000 20,000 36 SPT Relocation SPT BBG Relocation 1,100,000 80,435 3	Crossing Estimated Vehicular Train Criteria Crossing Estimated Vehicular Train Criteria Crossing Railroad: Number Cost ADT Volume (VxT)+(Cx24): Grand Avenue SPT E-9.3 \$2,000,000 10,000 76 15.8 March Lane WP 4-96.9 1,000,000 20,000 14 11.7 Miner Avenue WP/8PT 4-93.9-B/D-91.2-B 3,950,000 18,174 54 10.4 Wolfe Road SPT E-39.7 3,000,000 15,466 64 13.7 Crenshav Blvd. AT&SF 2H-20.9 2,500,000 34,138 18 10.2 Del Amo Boulevard AT&SF 2H-19.5-A 2,400,000 20,000 36 12.5 SPT Relocation SPT "BBG" Relocation 1,100,000 80,435 3 11.3	Crossing Estimated Vehicular Train Criteria Evaluated Crossing Estimated Crossing Estimated Criteria Evaluated Evaluated Criteria Evaluated Evaluated Criteria Evaluated Evaluated Evaluated Criteria Evaluated Eval

Staff Nomination.
Los Angeles County and Torrance.
Railroad Nominations.

Priorit		: Street	Public Agency	Railroad
Number	: Crussing No	Street	1 Public Agency	7,412
	011 14 1	El Segundo Blvd	Los Angeles Co ·	AT&SF
1	2H-14,1	Yosemite Ave	Manteca	SPT/TWS
2	B-96.7/75B-4.8	Imperial Highway	Santa Fe Springs	AT&SF
3	2-156.1	State #29	Caltrans	SPT
4	AA-61.7/AB-62.0	· ·	Banning	SPT
5	B-567.7	Eighth Street	Los Angeles Co	SPT
<u>6</u>	B-500.5	Hacienda Blyd	Fullerton	AT&SF/UPRR
7	2-165.1/3Y-17.6	Lemon Street	Davis	SPT
8	A-75,4-B	Richards Blvd	Alhambra	SPT
9	"B" Line	Lowering	Atliguinta	
	B-487.4	Fremont Ave	en e	•
	B-488.0	Marengo		
	B-488,2	Marguerita Ave		
	B-488.5	Atlantic Blvd		
	B-488.8	Sixth Street		•
	B-488.9	Fourth Street		
	B-489.2	Garfield Ave		* ⁻
	B-489.4	Chapel Ave	_	ana
10	D-20.0	"A" Street	Hayward	SPT
11	BBO Line	Relocation .	Claremont	SPT
	BBO-514.71	Berkeley Ave		
	BBO-514,77-C	West First Street		
	BBO-514,81-C	Cornell Ave		
	BB0-514.89	Oberlin Ave		
	BBO-514.93-C	North First Street		
	BBO-514.96	Indian Hill Blvd		
÷ 1	BBO-515.04	Yale Ave		
	BBO-515.13	Harvard Ave		
	BBO-515.21	College Ave		
12	2B-0.7	Rialto Ave	San Bernardino	AT&SF
13	2-268.9-A	Harbor Drive	San Diego	AT&SF
1.0		State #31	Caltrans	AT&SF
14.	2B-24.1			-

:Priori		Street	Dublia Januar	Railroad
: Numbe	r: Crossing No.	Street	: Public Agency	Railroad
15	D-46.0/4-46.7	Murrieta	Livermore	SPT/WPRR
16	C-179.5	Midway County Rd	Butte Co	SPT
17	B-728.3-B	Quick Rd	Imperial Co	SPT
18	C-141.7-B	State #70	Caltrans	SPT
19	E-222.01-A	Eighth Street	San Luis Obispo	SPT
20	BK-512.4	Katella Ave	Anaheim	SPT
21	B-469.4	Hollywood Way	Los Angeles Co	SPT
22	4-176.1	Pasado Rd	Yuba Co	WPRR
23	2E-16.5	Mission/Twin Oak	San Marcos	AT&SF
24	E-24.8	Whipple Ave	Redwood City	SPT
25	E-35.9	Castro Street .	Mountain View	SPT
26	A-13.8	Cutting Blyd	Richmond	SPT
27	2-154,6	Telegraph Rd	Santa Fe Springs	AT&SF
28	2-154.87	Florence Ave	Los Angeles Co	AT&SF
29	2B-1.3	Mill Street	San Bernardino	AT&SF
30	B-609.7	Monroe Street	Indio	SPT
31	E-22.0	Ralston Ave	Belmont	SPT
32	B-495.3	Peck Rd	El Monte	SPT
. 33	4-93.9-B/D-91.2-B	Miner Ave	Stockton	WPRR/SPT
34	"B" Line	Lowering	San Gabriel	SPT
	B-490.2	Ramona Štreet		
•	B-490.3	Mission Street		• • •
	B-490.7	Del Mar	•	.`
	B-491.2	San Gabriel		in the second se
35	E-9.3	Grand Ave	So San Francisco	SPT
36	D-5.9/D-5.9-A	Adeline Street	Oakland	SPT
37	вқ-504.6	Beach Blyd	Buena Park	SPT
38	E-23,2	Holly Street	San Carlos	SPT
39	2-159.6	Alondra '	La Mirada	AT&SF
40	B-36.9-A	Waterfront Rd	Contra Costa Co	SPT

Priority Number		: Street	Public Agency	; Railroad
41	8N-1.85-8N-2.6	Removal	Pittsburg	SN
	8N-1.85	Montezuma		
	8N-1.9	West Street		_
	8112.0	Cutter Street	•	-
	8N-2.05	York Street		
	8N-2.1	Black Diamond		
	8N-2.2	. Railroad		
	8N-2.3	Cumberland		
	8N-2.4	Los Mendanos		•
	8N-2.45	East Street	•	
	8N-2.6	Harbour Street		
42	E-21.0	Laurie Meadows Dr	San Mateo	SPT
43	A-91.0	28th Street	Sacramento	SPT
44	E-39.7	Wolfe Rd	Sunnyvale	SPT
45	E-365.7-B	Hollister.Ave	Santa Barbara Co	SPT
46.	A-14.5/2K-1.8-B	23rd Street	Richmond	SPT/AT&SF
47	2H-19.5	Del Amo	Torrance	AT&SF
48	BK-498.0	Imperial Highway	Norwalk	SPT
49	E-15.2	Broadway	Burlingame	SPT
50	3A-12.3	Alondra Blvd	Paramount	UPRR
51	B-511.8	Roselawn	Pomona	SPT
52	2B-25.2	Lincoln Ave	Corona	AT&SF
53	2-187.6	Ridge Route Dr	Orange Co	AT&SF
54	E-448.8	Tampa Ave	Los Angeles	SPT
	A-19.3	Pt. Pinole Park	Richmond	SPT
	2-180.5	Culver Drive	Irvine	AT&SF
57	2-149.5	Greenwood Ave	Montebello	AT&SF
58	B-210.3	Chestnut Ave	Fresno	SPT
	BG-488.3	Florence Ave	Los Angeles Co	SPT
	E-432.0	Madera Rd	Simi Valley	SPT

:Priority:				:
: Number	: Crossing No.	: Street	: Public Agency	: Railroad :
61	"2" Line	Lowering	Oceanside	AT&SF
	2-228.0	Cassidy		
	2E-0.3	Hill Street	•	
	2-227.2	Oceanside		*
	2-226.4	Tyson Street		
	2-226.8	Wisconsin Street	•	
	2-225.9	Sixth Street		
	2-226.1	Third Street		
62	2-84.8	Riverside Ave	Rialto	AT&SF
63	2-746.5	Barstow Rd	Barstow	AT&SF
64	3-39.0	Grove Street	Ontario	UPRR
65	B-543,6	Mountain View	Loma Linda	SPT
66	E-64.0	Bailey Ave	San Jose	SPT
67	BBJ-509.31	Birch Street	Brea	SPT
68	5-14.7-B	Sir Francis Drake Byd	Larkspur	NWP
69	BAA-522.09	Ellis Ave	Huntington Beach .	SP T