

***Request for Proposals  
Alameda Corridor***

***Maintenance of Way Services***

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***APPENDIX F***

***INSPECTION OF STRUCTURES***

## Inspection of Structures

### **FRA Bridge Safety Standards**

The Contractor shall develop a Bridge Management Plan for ACTA pursuant 29CFR237 Bridge Safety Standards for ACTA-maintained rail bridges. (See attached inventory.) The program shall contain the elements of Subpart B 237.33 including an inventory of the rail bridges, record of the safe loading capacity of each, maintaining design documents and documenting of repairs, and a bridge inspection program covering inspection personnel safety, types of inspection, definition of defect levels and condition codes, documentation including standard forms, structure and component types, and numbering and identification protocol.

A bridge supervisor and qualified inspectors are to be made available pursuant to Subpart C 237.53 and 55. ACTA's Bridge Engineering firm is Moffat & Nichol Engineers of Long Beach, CA.

Necessary manpower, track time, and inspection equipment and vehicles, including that required for underwater bridge components, shall be made available to perform and document such inspections.

### **Other Structures**

Qualified inspectors shall be provided for other bridges (see attached inventory), and other railroad structures including signal bridges, signal masts, crossing warning devices, signal huts, radio towers, antennas, drainage facilities, manholes, vaults, retaining structures, pump stations, emergency ladders, overhead casings, fencing, concrete barriers, and other railroad-related structures. Inspectors shall be experienced in maintenance, inspection and construction; trained in the appropriate safety and inspection techniques; and qualified per FRA Track Safety Standards.

Inspections shall include routine and required annual inspections, as well as emergency inspections following accidents, derailments, floods, earthquake, fire, and other conditions.

### ACTA-Maintained Rail Bridge Inventory

ID #	Description	Location	Type	Crossing Number	Reference DWG	Length	# of Spans	Width
16	ACTA Mainline Over Washington	ACTA Mainline track over Washington Blvd e/o Santa Fe Ave.	Five Track Steel Under Girder	114-0.00-B	C0097 S-101 to S-127	176'-3 $\frac{7}{8}$ " total 86'-8 $\frac{5}{8}$ " maximum	2	97'-1 $\frac{7}{8}$ " at east abutment
55	Compton Creek Bridge	ACTA Mainline over Compton Creek	3 track Steel Through Girder	N/A	C0101 S-001 to S-034	354'-9 $\frac{3}{4}$ " total 100'-0" maximum	4	63'-0"
61	Dominguez Channel Bridge	ACTA Mainline tracks over Dominguez Channel	4 tracks on precast, prestressed concrete box girders	N/A	C0102 S-001 to S-017	204'-0" total 35'-6" Maximum	6	70'-4"
64	Alameda Street Underpass	Alameda Street under ACTA Mainline Tracks @ Huntway Curve	4 track on steel under girder/ concrete deck	114-16.16-B	C0131 S-001 to S-023	131'-0 $\frac{1}{4}$ " total equal	2	70'-1" added 2'-3" northside 3'-8" southside
67	Long Beach Lead Bridge	Long Beach Lead Track across the Dominguez Channel	2 track Steel under Girder with concrete deck	N/A	C0103 S-001 to S-023	204'-6" total 42'-0" maximum	6	38'-4"
71	Henry Ford Grade Separation Segment 2	ACTA Mainline Across Dominguez Channel	2 Track - 2 spans Steel Plate Under Girder & 1 span Through Truss	N/A	C0104 S-200 to S-247	550'-8" total 127'-0" PG maximum 296'-9 $\frac{5}{8}$ " truss	3	36'-2" Plate Girder 38'-6" truss
72	Henry Ford Grade Separation Segment 3	ACTA Mainline across Henry Ford / Peir A Way Intersection	2 Track on Steel Through Truss	114A-17.38-B	C0104 S-300 to S-309	295'-3 $\frac{3}{8}$ "	1	38'-6"
73	Henry Ford Grade Separation Segment 4	Viaduct Section over UP San Pedro Branch Line	2 track on precast concrete box girders		C0104 S-400 to S-440	856'-0" total 58'-0" maximum	19	36'-0"
74	Henry Ford Grade Separation Segment 5A	Continuation of Viaduct Section	2 track on precast concrete box girders	N/A	C0104 S-500 to S-509	554'-0" total 42'-6" maximum	13	36'-0"
76	ACTA -3 Dominguez Channel Bridge	ACTA-3 Track over the Dominguez Channel at Henry Ford Ave.	Single track on steel griders with timber ties	N/A				

### ACTA-Maintained Trench Bridges

(Superstructure and substructure, roadway surface maintenance by others)

ID #	Description	Location	Type	Crossing Number	Reference DWG	Length	# of Spans	Width	Surface Maintenance
18	25th Street Overpass	25th Street over Trench e/o Alameda Street	4 Lane Road on Precast Concrete Girders with Cast in Place Concrete Deck	114-0.70-A	Segment 2 S-500 to S-522	51'-0"	1	180'-6"	Vernon
19	27th Street Overpass	27th Street over Trench on West Alameda St.	2 Lane Road on Precast Concrete Girders with Cast in Place Concrete Deck	114-0.80-A	Segment 2 S-400 to S-424	51'-0"	1	162'-7 $\frac{1}{8}$ "	City of LA
20	38th / 41st Street Overpass	38th / 41st Street across the trench adjacent to Alameda Street	2 Lane Road Precast Concrete Girders with Cast in Place Concrete Deck	114-1.20-A	Segment 2 S-300 to S-325	51'-0"	1	251'-6"	City of LA
21	Vernon Ave. Overpass	Vernon Ave. across the trench adjacent to Alameda Street	4 Lane Road on Precast Concrete Girders with Cast in Place Concrete Deck	114-1.50-A	Segment 2 S-200 to S-220	51'-0"	1	168'-6"	City of LA
22	55th Street Overpass	55th Street across the trench adjacent to Alameda Street	2 Lane Road on Precast Concrete Girders with Cast in Place Concrete Deck	114-2.20-A	Segment 2 S-100 to S-121	51'-0"	1	158'-6"	City of LA
23	Slauson Ave. and Railroad Overpass	Slauson Ave. and Railroad track across the trench adjacent to Alameda Street	6 Lanes (4 thru & 2 turn) & Railroad Track on Precast Concrete Girders with Cast in Place Concrete Deck	114-2.50-A 114-2.50-AT	Segment 3 S-201 to S-225	51'-0"	1	143'-8 $\frac{5}{8}$ "	Huntington Park
24	Randolph Street and Railroad Overpass	Randolph Street and Railroad track across the trench adjacent to Alameda Street	4 Lanes & Railroad Track on Precast Concrete Girders with Cast in Place Concrete Deck	114.2.60-A 114-2.60-AT	Segment 3 S-101 to S-123	51'-0"	1	175'-5 $\frac{5}{8}$ "	Huntington Park
25	Gage Ave. Overpass	Gage Ave across the trench adjacent to Alameda Street	5 Lanes (4 thru & 1 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-3.00-A	Segment 3 S-501 to S-518	51'-0"	1	104'-0"	Huntington Park

ID #	Description	Location	Type	Crossing Number	Reference DWG	Length	# of Spans	Width	Surface Maintenance
26	Zoe Ave. Overpass	Zoe Ave across the trench adjacent to Alameda Street	4 Lanes (1 thru & 3 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-3.10-A	Segment 3 S-401 to S-418	51'-0"	1	80'-0"	Huntington Park
27	Florence Ave. Overpass	Florence Ave across the trench adjacent to Alameda Street	5 Lanes (4 thru & 1 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-3.50-A	Segment 3 S-301 to S-318	51'-0"	1	128'-0"	County of LA
28a	74th St / shopping center access	Shopping center access across the trench adjacent to Alameda Street	Access Driveway on Precast Concrete Girders with Cast in Place Concrete Deck. Built by County after Corridor completion	NA	LA County contract plans	51'-0"	1	48'-0"	County of LA
28	76th St / Metro Commercial Overpass	Metro Commercial Access across the trench adjacent to Alameda Street	Access Driveway on Precast Concrete Girders with Cast in Place Concrete Deck	114-3.80-A	Segment 3 S-601 to S-619	51'-0"	1	48'-0"	County of LA
29	Nadeau Street Overpass	Nadeau St across the trench adjacent to Alameda Street	5 Lanes (4 thru & 1 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-4.00-A	Segment 3 S-201 to S-218	51'-0"	1	104'-0"	County of LA
30	Engle Driveway Overpass	Engle Driveway across Alameda Trench	Driveway Access on Precast Concrete Girders with Cast in Place Concrete Deck	114-4.40-A	Segment 3 S-101 to S-118	51'-0"	1	48'-0"	County of LA
31	Hon Driveway	Hon Driveway across Alameda Trench	Driveway Access on Precast Concrete Girders with Cast in Place Concrete Deck	114-4.60-A	Segment 4 S-401 to S-419	51'-0"	1	48'-0"	County of LA
32	Firestone Blvd Overpass	Firestone Blvd across the trench adjacent to Alameda Street	5 Lanes (4 thru & 1 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-4.70-A	Segment 4 S-301 to S-319	51'-0"	1	144'-0"	County of LA
33	92nd St. / Southern Ave. Overpass	92 St / Southern Ave across the trench adjacent to Alameda Street	4 Lanes (3 thru & 1 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-5.00-A	Segment 4 S-201 to S-218	51'-0"	1	96'-0"	County of LA

ID #	Description	Location	Type	Crossing Number	Reference DWG	Length	# of Spans	Width	Surface Maintenance
34	Tweedy Blvd Overpass	Tweedy Blvd across the trench adjacent to Alameda Street	4 Lanes (2 thru & 2 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-5.50-A	Segment 4 S-101 to S-118	51'-0"	1	104'-0"	County of LA
35	Martin Luther King Jr Blvd Overpass	Martin Luther King Jr across the trench adjacent to Alameda Street	6 Lanes (2 thru & 4 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-6.00-A	Segment 5 S-401 to S-418	51'-0"	1	128'-0"	Lynwood
36	Santa Ana Blvd / Fernwood Ave Overpass	Santa Ana Blvd / Fernwood Ave across the trench adjacent to Alameda Street	3 Lanes (2 thru & 1 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-6.40-A	Segment 5 S-301 to S-318	51'-0"	1	112'-0"	County of LA
37	Imperial Hwy Overpass	Imperial Hwy across the trench adjacent to Alameda Street	6 Lane Road on Precast Concrete Girders with Cast in Place Concrete Deck	114-6.61-A	Segment 5 S-201 to S-218	51'-0"	1	136'-0"	County of LA
40	Lynwood Rd. Overpass	Lynwood Rd across the trench adjacent to Alameda Street	4 Lanes (1 thru & 3 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-6.90-A	Segment 5 S-101 to S-118	51'-0"	1	88'-0"	Lynwood
41	124th St / Weber St Overpass	124 St / Weber St across the trench adjacent to Alameda Street	4 Lanes (2 thru & 2 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-7.30-A	Segment 6 S-501 to S-517	51'-0"	1	80'-0"	County of LA
42	El Segundo Blvd Overpass	El Segundo Blvd across the trench adjacent to Alameda Street	6 Lanes (3 thru & 3 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-7.60-A	Segment 6 S-401 to S-419	51'-0"	1	128'-0"	County of LA
43	134th St / Pine St Overpass	134 St / Pine St across the trench adjacent to Alameda Street	4 Lanes (2 thru & 2 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-7.90-A	Segment 6 S-301 to S-317	51'-0"	1	96'-0"	County of LA

ID #	Description	Location	Type	Crossing Number	Reference DWG	Length	# of Spans	Width	Surface Maintenance
45	Elm Street Overpass	Elm Street across the trench adjacent to Alameda Street	5 Lanes on Precast Concrete Girders with Cast in Place Concrete Deck	114-8.60-A	Segment 6 S-201 to S-217	51'-0"	1	96'-0"	Compton
46	Palmer St Overpass & Plaza	Palmer Street and Pedestrian Plaza across the trench adjacent to Alameda Street	4 Lanes and Plaza on Precast Concrete Girders with Cast in Place Concrete Deck	114-8.80-A	Segment 6 S-101 to S-116A	51'-0"	1	208'-0"	Compton
47	Compton Blvd Overpass & Plaza	Compton Blvd and Pedestrian Plaza across the trench adjacent to Alameda Street	6 Lanes and Plaza on Precast Concrete Girders with Cast in Place Concrete Deck	114-9.00-A	Segment 7 S-401 to S-419	51'-0"	1	272'-0"	Compton
48	Myrrh Street Overpass & Plaza	Myrrh St and Pedestrian Plaza across the trench adjacent to Alameda Street	5 Lanes and Plaza on Precast Concrete Girders with Cast in Place Concrete Deck	114-9.20-A	Segment 7 S-301 to S-318	51'-0"	1	208'-0"	Compton
49	Alondra Blvd Overpass	Alondra Blvd across the trench adjacent to Alameda Street	7 Lane Road on Precast Concrete Girders with Cast in Place Concrete Deck	114-9.50-A	Segment 7 S-201 to S-218	51'-0"	1	104'-0"	Compton
50	Greenleaf Blvd Overpass	Greenleaf Blvd across the trench adjacent to Alameda Street	6 Lanes (4 thru & 2 turn) on Precast Concrete Girders with Cast in Place Concrete Deck	114-10.00-A	Segment 7 S-101 to S-120	51'-0"	1	104'-0"	Compton