

***Request for Proposals  
Alameda Corridor***

***Maintenance of Way Services***

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***APPENDIX J***

***Track and Signal  
Inspection Schedules***

## SCHEDULE OF REPORTING REQUIREMENTS

Contractor shall be required to provide the following reports, as follows:

REPORT	FREQUENCY
Track Inspection	Semi-weekly track inspection, monthly switch inspection, and monthly summary of these inspections
Rail Flaw Inspection	As completed (three times a year)
Structures Inspection	As completed, update computer records. A report is turned in once a year of all the inspections made.
Extraordinary Inspections (Track & Structures)	Immediately following inspection
Personal Injuries	Immediate verbal report and written report within 24 hours
Vehicle Accident	Immediate verbal report and written report within 24 hours
Inventory Adjustments, Material Received, Used, Sold	Monthly, to be included with invoice
Training Completed – Test Results	On hand for audit
Personnel Changes, Qualifications	As required. See form.
Vehicle Logs	For Audit
Vehicle Repairs	For Audit
Vehicle Inspections	For Audit
Task Order Progress	Monthly
Certified Payroll	Audit
Annual Physical Inventory	Monthly
Budget Compliance	Monthly, to be included with invoice
Adjustments to CWR	Immediately following adjustment. For audit.
First Telephonic Report of Personal Injury Occurrence	Immediate verbal report. Written report within 12 hours.
Follow-Up Telephonic Report of Injury	Immediate verbal report. Written report within 12 hours.
Summary Report of Injuries to Date	Monthly with invoice
Notification of Catastrophic Occurrence	Immediate verbal notification. Written report within 12 hours.

## ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY

### TRACK INSPECTION SCHEDULE

INSPECTION	RESPONSIBLE PERSON	FREQUENCY					
		TBD	SEMI-WEEKLY	MONTHLY	3 MONTHS	4 MONTHS	ANNUAL
Inspection By Revenue Train	Track Inspector			X			
	Track Supervisor				X		
	Maintenance Contract Manager				X		
Inspect Track (Hi-Rail/Walk)	Track Inspector						
	Track Supervisor				X (1)		
	Maintenance Contract Manager					X (2)	
FRA Inspections for Main Line Tracks	Track Inspector		X (3)				
	Track Supervisor						
	Maintenance Contract Manager						
Inspect Jointed Track	Track Inspector	X					
	Track Supervisor	X					
	Maintenance Contract Manager	X					
Inspect Turnouts & Crossing Frogs (Hi-Rail/Walk)	Track Inspector			X (4)			
	Track Supervisor						X
	Maintenance Contract Manager						X
P	Track Inspector						X
	Track Supervisor						X
	Maintenance Contract Manager						X

**Notes:**

1. Every 90 days accompany track inspectors on their entire main and branch line inspections. Spend at least 10 days each month inspecting tracks.
2. Spend at least 5 days per month conducting Hi-Rail and walking inspections of tracks.
3. Minimum of 1 day between inspections.

**ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY**  
**SIGNAL TEST/INSPECTION SCHEDULE**

Tests / Inspection	FRA Number	Other	Monthly	3 Months	6 Months	Annual	2 Years	4 Years	10 Years
Switch Obstruction	236.382		X						
Switch Circuit Controller	236.103			X					
Point Detector	236.334			X					
Shunt Fouling	236.104			X					
Grounds	236.107			X					
Overload	None			X					
Restoring Feature	236.386			X					
Cross Protection	236.384				X				
Time Release of Relays & Devices	236.109					X			
Movable Bridge Locking	236.387					X			
Electric Lock	236.105						X		
Time Locking	236.378						X		
Route Locking	236.379						X		
Indication Locking	236.380						X		
Traffic Locking	236.381						X		
Relays	236.106							X	
P	236.108								X
Grounds	234.249		X						
Standby Power	234.251		X						
Visibility and Damage	234.253(c)		X						
Gate and Mechanism Condition	234.255(a)		X						
Gate Operation	234.255(b)		X						
Warning System Operation	234.257		X						
Traffic Signal Pre-emption	234.261		X						
Cutout Circuit	234.269			X					
Track Condition	234.271			X					
Alignment and Flash Rate	234.253(a)					X			
Lamp Voltage	234.253(b)					X			
Hold Clear	234.255					X			
Warning Time	234.259					X			
Timing Relays and Timing Devices	234.265					X			
Relays	234.263							X	
Insulation Resistance	234.267								X
Hot Box Detector (See Form)	None	X							
Joint Signal Inspection w/ BN & UP Sig. Mngr.	None					X			

**ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY  
ANNUAL SWITCH INSPECTION REPORT**

LOCATION AND DESCRIPTION OF SWITCH			<input type="checkbox"/> POWER OPERATED	
			<input type="checkbox"/> HAND THROW	
TURNOUT NUMBER	FROG TYPE	GUARD RAIL TYPE		
		M.L. SIDE	T.O. SIDE	

INDICATE CONDITION OF						
STOCK RAILS	RH	LH				
SWITCH POINTS	RH	LH				
HEEL BLOCKS						
RAIL JOINTS AND BOLTS AT HEEL OF SWITCH POINTS	RH				LH	
HEAD BLOCK TIES			SWITCH STAND			
SWITCH LOCK			TRANSIT CLIPS & BOLTS			
SWITCH TIES			SWITCH PLATES			
GAUGE PLATES			SWITCH POINT THROW AT No. 1 ROD			
No. 20 T.O. SWITCH POINT THROW	P.S.	No. 1 ROD	No. 2 ROD	No. 3 ROD	No. 4 ROD	No. 5 ROD
FROG				FROG BOLTS		
FROG PLATES				RETARDER		
RAIL JOINTS & BOLTS ON FROG	TOE			HEEL		
HOLD DOWN BRACKETS ON WING RAIL						
GUARD RAILS	ML SIDE			T.O. SIDE		
SETTING OF GUARD RAILS	ML SIDE			T.O. SIDE		
INSULATED JOINTS						
RAIL JOINTS & BOLTS						
LINE, SURFACE & GAUGE OF MAIN TRACK THRU SWITCH						
LINE, SURFACE & GAUGE THRU T.O. SIDE OF SWITCH						

REMARKS	

DATE OF INSPECTION	_____
DATE EXCEPTIONS FURNISHED TO SECTION FOREMAN	_____
DATE EXCEPTIONS CORRECTED	_____

\_\_\_\_\_  
Contract Manager

# ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY CORRECTIVE REPORT

NAME _____	TITLE _____	HEADQUARTERS _____
SUBDIVISION _____	TRACK _____	INSPECTION DATE _____

MILEPOST	EXCEPTION	CORRECTIVE ACTION	DATE CORRECTED	CORRECTED BY

**ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY  
FRA TRACK INSPECTION REPORT**

Region:		Date:	
<b>Territory Inspected</b>			
Sub-division:		Main track inspected, single, No. 1, No. 2, No. 3, No. 4, Branch <i>(Circle all that apply)</i>	
<b>Record of Exceptions</b>			
<b>Location</b>	<b>Track</b>	<b>Nature of Defect</b>	<b>Remedial Action</b>
<b>Sidings Inspected</b>	<b>Sidings Traveled</b> <i>(Check all that apply)</i>	<b>Yard Tracks Inspected</b>	

\_\_\_\_\_  
Signature of person making inspection

\_\_\_\_\_  
Title

# ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY FRA SIGNAL TESTS

### Recording Mark

C - Test complete. Equipment in satisfactory condition.

A - Adjustment made.

R - Repairs or replacement needed.

N - Does not apply.

\* - Explain on back of form

Test must be made when placed in service, modified or disarranged,  
and at time period specified below thereafter

Signature: \_\_\_\_\_

M.P. to M.P. \_\_\_\_\_

Sheet \_\_\_\_\_ of \_\_\_\_\_

LOCATION	Date of Test	Switch or Signal Number	MONTHLY	3 MONTHS				6 MONTHS	1 YEAR		2 YEARS			
			Switch Obstruction 236.382	Sw Circuit Control 236.103	Point Detector 236.334	Shunt Fouling 236.104	Ground 236.107	Cross Protection 236.384	Time Release Time Delay 236.109	Moveable Bridge 236.387	Time Locking 236.378	Route Locking 236.379	Indication Locking 236.380	Traffic Locking 236.381



**ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY  
YEARLY TEST OF HAZARD DETECTORS**

Date Submitted: \_\_\_\_\_

Sheet #: \_\_\_\_\_

Inspected by: \_\_\_\_\_

**READING MARK**

C - Test complete. Equipment in satisfactory condition.

A - Adjustment made and test complete.

R - Repairs or replacement needed.

S - Repairs or replacement made. Equipment in satisfactory condition.

\* - Explain on back of form.

DATE OF TEST (mm/dd/yy)	MILE POST LOCATION	TYPE OF DETECTOR (High, Wide, & Hot Box)	DETECTOR CAUSE PROPER SIGNAL TO BE DISPLAYED (Yes or No)	RESULTS	Line Num ber
					1
					2
					3
					4
					5
					6
					7
					8
					9
					10
					11
					12
					13
					14
					15
					16
					17
					18
					19
					20

**ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY  
HOT BOX DETECTOR TESTS D.E.D.**

Location: \_\_\_\_\_

Track #: \_\_\_\_\_

Date (mm/dd/yy)	Bi-Weekly								Monthly																	Semi-Annual																								
	Clean Mirrors	Clean Lenses	DED Alarm Both Directions	View Axel Data	Transducers Tight	Transducers Clean	Scanner Heaters		AC Voltage	AC Inverter Voltage	Ambient Temperature	DC Voltages Board Self-Test	Board Self-Test	Gauge Plates & Rods	Surge Protection	Correct Anchor Pattern	Anchor or Plate vs Transducer	Rail Gauge Correct	Non-Metallic Transducer Test	Transducer Height & Level	Transducer Damage	Scanner Hardware Tight	Scanner Guard Damage		Rail 1 Average Temperature	Rail 2 Average Temperature	Heat Test Rail 1	Heat Test Rail 2	Rail 1 is North/East	Chart Recorder Working Properly	Electronic Recorder-Print Train List	DED Hardware Tight	DED Damage	DED Impact-Type, All Sections Operating	Blow Water From Conduit	All Wiring Connections	Scanner Height/Alignment	Carrier Levels	Ground Resistance	Transducer Resistance	DED 8" Deflection Test	2-Man Simulated Train Test	Correct Prints	Current & Correct Instructions	Current Radion License	Lubricate All Hinges				

# ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY DAILY ON TRACK INSPECTION REPORT

MONTH OF: \_\_\_\_\_

NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

EMPLOYEES NUMBER: \_\_\_\_\_

LOCATION: \_\_\_\_\_

INSPECTION DATE	TRAIN NO. & DIR. HY-RAIL NO., WALKING	SUBDIVISION, BRANCH, YARD, OR OTHER (Name)	TRACK NO. OR NAME	TERRITORY COVERED MP OR STATION		ACCOMPANIED BY	REMARKS Unusual Conditions Found, Employees Contacted, Etc.
				FROM	TO		



**ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY  
INSULATION RESISTANCE TEST**

RULE 236.108 AND RULE 234.267

**Recording Mark**

- C - Test complete. Equipment in satisfactory condition.
- A - Adjustment made and test complete.  
Equipment in satisfactory condition.
- R - Repairs or replacement needed.
- S - Repairs or replacement made.  
Equipment in satisfactory condition.
- \* - Explain on back of form.

SIGNATURE \_\_\_\_\_  
M.P. TO M.P. \_\_\_\_\_  
SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS

In no case shall a circuit be permitted to function when resistance is less than 200,000 ohms.

DATE OF TEST	LOCATION	CABLE IDENTIFICATION	IF RESISTANCE READING OF ANY CONDUCTOR WITHIN A CABLE IS LESS THAN 500,000 OHMS, LIST EACH WIRE IDENTIFICATION AND RESISTANCE VALUE WITHIN THAT CABLE.		TEST RESULTS	LINE NO. REMARKS	DATE OF TEST	LOCATION	CABLE IDENTIFICATION	IF RESISTANCE READING OF ANY CONDUCTOR WITHIN A CABLE IS LESS THAN 500,000 OHMS, LIST EACH WIRE IDENTIFICATION AND RESISTANCE VALUE WITHIN THAT CABLE.		TEST RESULTS	LINE NO. REMARKS
			WIRES IDENTIFICATION	RESISTANCE						WIRES IDENTIFICATION	RESISTANCE		
						1							16
						2							17
						3							18
						4							19
						5							20
						6							21
						7							22
						8							23
						9							24
						10							25
						11							26
						12							27
						13							28
						14							29
						15							30

**ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY  
SIGNAL DEPT. D.O.T. - RS & I TEST**

**Recording Mark**

- C - Test complete. Equipment in satisfactory condition.
- A - Adjustment made & test complete.  
Equipment in satisfactory condition.
- R - Repairs or replacement needed
- S - Repairs or replacement made.  
Equipment in satisfactory condition.
- \* - Explain on back of form.

INSULATION RESISTANCE TEST RULE 236.106, RULE 236.105 AND RULE 234.263

Each relay shall be tested once every 4 years except: "AC" centrifugal relays shall be tested every 12 months. "AC" vane relays and "DC" polar relays shall be tested every 2 years, and all relays with soft iron magnets structure shall be tested every 2 years.

RELAY NAME	MANUFACTURER & MODEL	COIL OHMS	SERIAL NUMBER				SUBDIVISION		M.P.	
DATE OF TEST MM/DD/YY	TAG READINGS	PICKUP		WORKING		DROP-AWAY		POLAR PICKUP		RESULTS OF TEST
	SIGNATURE OF INSPECTOR	VOLTS	AMPS	VOLTS	AMPS	VOLTS	AMPS	VOLTS	AMPS	

# ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY TRACK INSPECTION REPORT

Division Service Unit \_\_\_\_\_

Sub-division or Branch \_\_\_\_\_

Inspection Date \_\_\_\_\_

Mgr. Track Maintenance \_\_\_\_\_

Territory Inspected M.P. \_\_\_\_\_ to M.P. \_\_\_\_\_

Main Track Inspected: NBML SBML EBML WBML No. 1MT No. 2MT No. 3MT No. 4MT SMT MT \_\_\_\_\_

SIDINGS INSPECTED (Designate Stations or M.P.)

YARD TRACKS INSPECTED (Designate Station and Tracks Inspected)

NOTE: Tracks Inspected Must include All Main Line Switches and Railroad Crossings in the Territory Covered. Inspection of Sidings and Yard Tracks Must Also Include all Switches in the Tracks Inspected.

### RECORD OF EXCEPTIONS

Exception Item No.	TRACK	LOCATION	NATURE OF DEFECT	CORRECTIVE ACTION						
				NATURE OF REPAIRS	BY WHOM	DATE			Mgr. Track Maintenance Approval	
						MO	DA	YR		

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Report No.

**DISTRIBUTION:**

- File Copy
- Manager, Track Maintenance

Sheet \_\_\_\_\_ of \_\_\_\_\_ Sheets

### ALAMEDA CORRIDOR TRANSPORTATION AUTHORITY MONTHLY INSPECTION OF MAIN LINE TURNOUTS AND CROSSING FROGS

Location / Switch Number	Date	Indicate Conditions Found at Time of Inspection											Remarks	
		Rail Ends	Joint Bars	Bolts	Ties	X-Ing Frogs	Guard Rails	Frog	Switch Points		Heel Blocks	Transit Clips		Stock Rails
									Heel	Points				

Signed \_\_\_\_\_ Inspector                      \_\_\_\_\_ Section Number and Location                      \_\_\_\_\_ Date