



## EXHIBIT A - SCOPE OF WORK

Provide On-call Engineering Services in support of Alameda Corridor operations and maintenance. ACTA's Chief Operating Officer will manage the services from Consultant through Project Directives on an as-needed basis, with final approval provided by the Chief Executive Officer.

The following descriptions are intended to describe the type of assignments for which the Consultant might provide On-Call Engineering Services to ACTA. There is no assurance that Project Directives for these or any other services will be issued.

Engineering services that could be assigned through Project Directives may fall under the following discipline categories:

- Civil Engineering
- Railroad Engineering
- Highway Engineering
- Structural Engineering
- Structural Inspections (above water)
- Structural Inspections (below water)
- Utility Investigation and Locating
- Electrical Engineering
- Mechanical Engineering/Plumbing
- Geotechnical Engineering
- Surveying/Property Delineation
- Traffic Engineering
- Architecture
- Landscape Architecture
- CADD and GIS

Project Directives will provide specific detailed information about scope of work, schedule, resources, and budget for any service request, as mutually determined with the Consultant. The scope of work for requested as-needed services may include, but is not limited to the following:

- Project Administration, Management and Coordination
- Transportation, goods movement and logistics studies, analyses, modeling, and reports
- Rail operations analyses, RTS modeling, capacity assessments, studies, and reports
- Conceptual and preliminary design for planning and feasibility studies
- Rail schematic layout, geometric design, yard layout with single-point failure and route analysis
- Structural condition inspections of above and below water structures elements
- Condition surveys of various Alameda Corridor facilities
- Architectural, civil, electrical, mechanical, plumbing, structural, railroad or highway design for various facilities
- Final design for Contract Documents and Record Documents including construction drawings, specifications, calculations, cost estimates, schedules, phasing and access
- Identify, apply for and obtain agency plan checks and permits necessary to accomplish the assigned work, including city, state, federal, and CPUC/FRA for rail
- CADD drafting (MicroStation) with 3D/digital twin technology
- Grant and funding support
- Engineering support during bid and construction
- Facility and equipment commissioning
- Peer review

Rail engineering will use Union Pacific Railroad standards and other disciplines will use POLB or POLA standards.