

Work Plan No A.20-01 Fremont TOD Fault Study

Scope:

Proposed Work Plan

Our proposed work plan for fault characterization will rely heavily upon evaluation of local conditions based on interpretation of earlier investigations at or in the vicinity of the project site. Previous observations of fault creep and trench exposures, coupled with trenching by the USGS and consultants, provide reasonably well-constrained information on the location, orientation, and width of active faulting along the Hayward fault in the vicinity of the parcels. We will compile and interpret available published fault mapping and available trench logs from fault investigations to verify locations of creeping and non-creeping fault strands.

Task 1 – Review Existing Information

We will review published and unpublished geologic and geotechnical data relevant to assessing the geology and faulting at the site. Some of this information has been compiled previously by other consultants for the BART Warm Springs extension. Locations of previous fault trenches will be compiled on project maps, along with zones of faulting identified in the trenches. We also will complete an analysis of aerial photography of the proposed site, using aerial photographs taken in 1939 and later years.

Task 2 – Limited Site Reconnaissance

We propose limited site reconnaissance to further assess the site conditions and evaluate proposed trench locations. Part of this investigation will be to carefully observe curbs and other cultural features across the site to evaluate possible locations of active fault creep. Also, as part of this reconnaissance, we plan to review the mapped western and eastern strands of the Hayward fault.

The site reconnaissance will include initial identification of buried utilities along proposed trench alignments.

Task 3 – Fault Characterization Desktop Study Report

The deliverable for the fault characterization task will include a desktop study report summarizing the findings from Tasks 1 and 2, along with recommendations for future work required for compliance with the AP Act, including estimated costs for any required subsurface field investigations.

Prime: Arup North America Ltd

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
InfraTerra, Inc.	\$16,063	N	N

Total Work Plan Value: \$24,397