

Work Plan No B.41-01 1939 Market St. - Geotechnical Engineering, SSSI, and Structural Engineering Consultant for Review of Permit

Scope:

The scope of this Work is to review the geotechnical evaluation, analysis, and design included in the permit application as follows:

- 1) Review (a) BART geotechnical and structural criteria relevant to the design and construction of new development near existing MUNI structures, and (b) MUNI as-built existing tunnel structure drawings and related documents
- 2) Review relevant geotechnical reports submitted by the developer of the proposed development as part of the permit application.
- 3) Review the design package submitted by the developer, including specifications, foundation, underground structure, excavation support system, dewatering, shoring, instrumentation, and monitoring, etc.
- 4) Review (a) the soil-structure interaction (SSI) and seismic soil-structure interaction (SSSI) analyses and report which evaluate potential impacts of the proposed development to adjacent existing MUNI tunnels; and (b) provide review comments.
- 5) Review the BART underground structure assessment report
- 6) Prepare review comment resolution forms that compile the comments from the reviews of Tasks 2 to 5

- 7) Participation in internal meetings with BART and comment resolution meetings with the developer. Prepare meeting minutes.

The following assumptions are made in this Work Plan Proposal:

- a. This Work Plan gives no rights or benefits to anyone other than BART and HDR and has no third-party beneficiaries. All work products will be prepared for use by BART and is not for the benefit of any third party. Use or reliance upon the work produced by any third party shall be at the sole risk of such party and without liability to HDR.
- b. HDR's review of the project design and geotechnical reports is limited to reviewing specific design aspects and accounts for potential impacts to BART/MUNI systems. HDR is not performing a comprehensive review, and HDR is not responsible for any parts of the design and reports outside the scope of HDR's study as identified in this Work Plan.
- c. While HDR supports BART's permit review process, BART is solely responsible for making decisions related to the permit and ultimately approving or disapproving the permit.
- d. A total of three reviews will be provided with three comment resolutions.

Prime: HDR

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
Delve	\$ 52,324	N	N

Total Work Plan Value: \$ 80,325