

Work Plan No.: B.07-05 - Emergency Access Stairs BART Richmond Control Tower
BART Project Number 05OH00

Scope:

2.0 SERVICES TO BE PERFORMED BY CONSULTANT AND WORK BREAKDOWN STRUCTURE

These services are in addition services as described in Work Plans B.07-02 and B.07-03.

Task 1 – Relocate Concord Access Balcony and Redesign for Access to Lower Roof

- Redesign of Concord Access due to constraints for loading lower roof building and seismic limitations for tower
- Access is revised to a hanging balcony with a ladder to the ground level that includes a side-step access to the lower roof

Task 2 – Revise Concept for Concord Egress from Balcony/Stairway to Walkway/Stair Tower

- Replace balcony with a platform and walkway
- Replace the stairway with a stair tower
- These changes are required due to the limited
- Design is more complex than previously scoped and increased number of construction drawings from 33 to 64 unique drawings, inclusive of Phases 1 and 2.
- Sheet counts have increased as detailed in the table below

Concord*	Phase 1	Phase 2
Sheets/Package	34	52
<i>Cover</i>	3	3
<i>Specs</i>	8	13
<i>Civil</i>	0	1
<i>Arch</i>	15	20
<i>Struct</i>	8	15
Modified Sheets		18
<i>Cover</i>	na	1
<i>Specs</i>	na	9
<i>Technical</i>	na	8
New Sheets		30
<i>Specs</i>	na	4
<i>Technical</i>	na	26

*33 sheets total estimated in executed Work Plans. Some sheets are shared or modified. 64 unique sheets in total were produced for the two phases.

Task 3 – Add Construction Package for Richmond Tower from Two Packages to Three Packages

- Repackaging of the construction drawings to support installation, specifically separating the egress balcony from the stairway.
- Design is more complex than previously scoped and increased number of construction drawings from 33 to 53 unique drawings, inclusive of Phases 1, 2 and 3.
- Sheet counts have increased as detailed in the table below

Richmond*	Phase 1	Phase 2	Phase 3
Sheets/Package	32	36	37
<i>Cover</i>	3	3	3
<i>Specs</i>	9	10	9
<i>Civil</i>	0	0	1
<i>Arch</i>	11	16	16
<i>Struct</i>	9	7	8

Modified Sheets		19	15
<i>Cover</i>	<i>na</i>	1	1
<i>Specs</i>	<i>na</i>	9	7
<i>Technical</i>	<i>na</i>	10	7
New Sheets	<i>na</i>	10	11
<i>Specs</i>	<i>na</i>	0	1
<i>Technical</i>	<i>na</i>	10	10

*33 sheets total estimated in executed Work Plans. Some sheets were shared or modified. 53 unique sheets in total were produced for the three phases.

Task 4 – Increased Level of Effort for Engineering Support During Construction (ESDC)

- ESDC was assumed to be limited to responses to RFIs and review of shop drawings.
- Issues with field site conditions and installation have required design solutions including drawings and calculations.

Assumptions:

- This scope of work is in addition to B.07-02 and B.07-03

Prime: HDR

Subconsultant: None

Work Plan Value: \$204,834