San Francisco-Oakland Bay Bridge
East Span Seismic Safety Project
Outreach for Construction Contract
04-0120S4 September 18, 2008
Steven Hulsebus
District Division Chief
Caltrans, Toll Bridge Design
Agenda

- Overview of Yerba Buena Island
- Project location and other contracts
- Scope of work
- Permits and licenses
- Structural details
Additional Information

- Please submit questions in writing on cards provided. Any answers provided today are preliminary and not considered final until posted on the bidder Inquiry web site.
- Webpage for Bidders Inquiry:
  http://www.dot.ca.gov/dist4/construction/Inquiries/04-0120S4_inquiry.html
- Future inquiries may be addressed to the Duty Senior:
  - email: duty_senior_district04@dot.ca.gov
  - Mailing address: P.O. Box 23660, Oakland, CA 94623-0660
  - Fax number: (510) 622-1805
  - All inquiries must include the contract number (04-0120S4)
SFOBB East Span Segments
Proximity of Contract Site and Outreach Location
Existing Site Conditions at Start of Construction

- Construct New Bridge
- Erect Temporary Supports
- Build Detour Structures
- Excavation/Backfill
- Demolition

California Department of Transportation
Scope of Work

• Mainline structures: 2 parallel ten-span structures, WB & EB, each approx 450m long and 25m wide

• Superstructures consist of prestressed concrete box girders

• Substructures consist of reinforced concrete columns and pile supported concrete footings (WB W8L to W10AL & EB W8R to W10R and abutment W11R)

• EB structure includes a bicycle/pedestrian path approx 6m wide of transverse reinforced concrete beams supporting precast concrete slabs

• EB on-ramp structure: five-span box girder approx 175m long and 12m wide. Superstructure is a prestressed concrete box girder. Substructure is reinforced concrete columns and footings supported by driven steel piles. Only footings and columns for W8 and W9 are included.

• Temporary EB on-ramp: structure is approx 18m long and 4.5m wide. Superstructure consists of reinforced concrete deck, steel girders, & concrete bent cap. Substructure consists of driven steel piles and pile supported concrete footings. Bridge abutment is constructed under separate concrete.
Scope of work

- Various retaining walls
- Electrical work
- Road relocation
Potential sub-contracting opportunities found within this contract may include, but are not limited to, the following items:

- Concrete Barriers
- Miscellaneous Metal
- Fiber Optic Cable
- Aggregate Base
- Polyester Concrete
- Fencing
- Traffic Striping
- Bike Path Railing
- Steel/Plastic Piping
- Hot Mix Asphalt
- Electrical
- Traffic Control
- Construction Area Signs
- Environmental Protection and Control
- Clearing and Grubbing
**Contract Schedule Information**

- **Bid Opening** – 1/13/2009
- **First Working Day** – early April
- **Start Field Work** – 1/1/2010
  - After completion of the YBI Detour contract
- **Working Days**
  - Calendar day contract – every day is a working day
  - Designated Portion of Work (DP) #1
    - Complete all work up to the construction joint shown on the plans
    - A+B bid with a maximum of 900 days
  - DP #2
    - Ready for Westbound Traffic
    - 180 days after completion of DP #1
  - DP #3
    - Ready for Eastbound Traffic
    - 180 days after completion of DP #2
  - DP #4
    - Contract completion
    - 60 days after completion of DP #3
Environmentally Sensitive Areas (ESA)
Environmentally Sensitive Areas (ESA)
Areas for Contractor Use

California Department of Transportation
Areas for Contractor Use
Areas for Contractor Use

California Department of Transportation
Permits and Licenses

USCG:

- USCG facility is 24/7 operating base
- Macalla Road must be kept open 24/7
  - 15min closure allowable with advanced approval
- Wendy Way – for USCG use only

Permits:

- Read for all rules, regulations, and restrictions
California Department of Transportation
I - PLACE SUPERSTRUCTURE CONCRETE TO CONSTRUCTION JOINT.

II - PLACE SUPERSTRUCTURE CONCRETE BETWEEN CONSTRUCTION JOINT AND PRESTRESS ANCHORAGE. PRESTRESS AND RELEASE FALSEWORK.

Hinge K Closure

Slide 1
III - PLACE HINGE K COUNTERWEIGHT

IV - PLACE HINGE K CLOSURE AND ENGAGE PIPE BEAM BEARINGS (MIN 75 DAYS AFTER PRESTRESS)

Hinge K Closure

Slide 2
V - REMOVE COUNTERWEIGHT AND FALSEWORK

Hinge K Closure
Slide 3
CONSTRUCT NEW BRIDGE
ERECT TEMPORARY SUPPORTS
BUILD DETOUR STRUCTURES
EXCAVATION/BACKFILL
DEMOLITION
Potential sub-contracting opportunities found within this contract may include, but are not limited to, the following items:

- Concrete Barriers
- Miscellaneous Metal
- Fiber Optic Cable
- Aggregate Base
- Polyester Concrete
- Fencing
- Traffic Striping
- Bike Path Railing

- Steel/Plastic Piping
- Hot Mix Asphalt
- Electrical
- Traffic Control
- Construction Area Signs
- Environmental Protection and Control
- Clearing and Grubbing