

DEPARTMENT OF TRANSPORTATION

ESC/OE MS #43
1737 30TH. Street 2ND. Floor
SACRAMENTO, CA 945816



January 3, 2000

04-CC,Sol-80-22.0/22.7,0.0/1.8
04-013014

Addendum No. 7

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in CONTRA COSTA AND SOLANO COUNTIES AT CROCKETT AND IN VALLEJO ON ROUTE 80 FROM 1.1 km SOUTH OF U.P.R.R. OVERCROSSING TO 0.4 km NORTH OF ROUTE 80/29 SEPARATION.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on January 11, 2000.

This addendum is being issued to revise the Notice to Contractors and Special Provisions.

In the Special Provisions, Section 2-1.01, "General," the following paragraph is added:

"Submit request for substitution of an "or equal" item, and the data substantiating the request to the Department of Transportation, District 4, Toll Bridge Program Duty Senior, P.O. Box 23660, Oakland, California 94623-0660; fax number: (510) 286-4563; email: Duty_Senior_Tollbridge_District04@dot.ca.gov, so that the request is received by the Department by close of business on the fifth day, not including Saturdays, Sundays and legal holidays, following bid opening."

In the Special Provisions, Section 10-1.44.5, "Test Borings" is revised as attached.

In the Special Provisions, Section 10-1.45, "Piling", subsection 49-1.05, "Driving Equipment, the seventh paragraph is revised as follows:

"The use of followers will be permitted for NPS 30 cast-in-steel shell concrete piling for piles at the South Anchorage, Pier P1 and Bent 7 Crockett Viaduct."

In the Special Provisions, Section 10-1.45, "Piling", subsection 49-1.05, "Driving Equipment, the eleventh paragraph is revised as follows:

"At Tower T3, below the pile tip elevation shown in the above table, torque or oscillation equipment may be used to install permanent steel shells into rock. The steel shell shall be installed to a minimum of 600 mm below the top of rock elevation, as determined by the Engineer, or to the steel shell specified tip elevation, whichever is deeper."

In the Special Provisions, Section 10-1.45, "Piling", subsection Jetting and Drilling, the second paragraph is revised as follows:

"At Towers T2 and T3, the Contractor may drill a hole with a diameter 1000 mm less than the inside diameter of the permanent steel shell to 3 meters below the steel shell tip, but not beyond the specified tip elevation, to advance the permanent steel shell. The space between the side of the hole and the inner surface of the steel shell shall not be less than 300 mm. Drilling of holes shall be performed under a head of slurry equal to 3 meters maximum above mean sea level."

In the Special Provisions, Section 10-1.49, "Joint Seal Assemblies (Movement Rating Exceeding 100 mm)," the sixth paragraph is revised as follows:

"The swiveling joint seal assembly shall be a Maurer System™ Swivel Expansion Joint System by D.S. Brown Company, Type DS-800B and Type DS-640B, supplied by the following supplier, or equal:

VENDOR ADDRESS AND PHONE NUMBER
D.S. BROWN COMPANY 300 E. CHERRY STREET NORTH BALTIMORE, OHIO 45872
TEL: (419) 257-1600 FAX: (419) 257-2200

To Proposal and Contract book holders:

- A COPY OF THE MATERIAL INFORMATION FOR THE REPORT OF POTENTIAL CONSTRUCTION IMPEDIMENTS OBSERVED IN THE MARITIME ARCHAEOLOGY REMOTE SENSING SURVEY AND GROUND TRUTHING OPERATIONS. ADDITIONAL INFORMATION FOR THIS REPORT IS AVAILABLE FOR THE CONTRACTOR'S INSPECTION AT THE DEPARTMENT OF TRANSPORTATION, DUTY SENIOR'S DESK, 111 GRAND AVENUE, OAKLAND, CALIFORNIA, TELEPHONE NO. (510) 286-5549 AND A COPY OF THE MATERIAL INFORMATION FOR THE BCDC BOUNDARIES WITHIN PROJECT LIMITS IS BEING SENT UNDER SEPARATE COVER TO THE PROPOSAL AND CONTRACT BOOK HOLDERS BY UPS OVERNIGHT MAIL.
- INDICATE RECEIPT OF THIS ADDENDUM BY FILLING IN THE NUMBER OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE SIGNATURE PAGE OF THE PROPOSAL.
- Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.
- Inform subcontractors and suppliers as necessary.

This office is sending this addendum by confirmed facsimile to all book holders to ensure that each receives it.

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

NICK YAMBAO, Chief
Office of Plans, Specifications &
Estimates
Division of Office Engineer

Attachment

10-1.44.5 TEST BORINGS

Test borings at Towers T2 and T3, and the South Anchorage shall consist of drilling test borings, taking samples, logging borings and furnishing test boring submittals to the Engineer.

Attention is directed to the "Order of Work," elsewhere in these special provisions.

Spoils from the test borings shall not fall into the surrounding seawater.

The "Soil and Rock Logging Classification Manual" is included in the "Materials Information" available to the Contractor as provided for in Section 2-1.03, "Examination of Plans, Specifications, Contract, and Site of Work," of the Standard Specifications.

The Contractor shall drill test borings at or near the center of each load test pile location at the South Anchorage as shown on the plans, and one test boring at the center of each cast-in-drilled-hole concrete pile at Towers T2 and T3, and as approved by the Engineer.

The Contractor shall notify the Engineer in writing not less than 10 working days in advance of drilling test borings.

All test borings shall be made under the site supervision of, the log of test borings stamped by, and the test boring submittal signed by a Geologist or Civil Engineer who is registered in the State of California and has at least five years of geotechnical engineering experience of deep foundations in both soil and rock.

Test borings shall be made by rotary drill methods and shall be at least 76 mm in diameter.

Test borings shall be drilled to a depth at least 3 m below the specified tip elevation for a given pile location at the South Anchorage.

For cast-in-drilled-hole concrete piling at Towers T2 and T3, test borings shall be drilled from the steel shell specified tip elevation down to 8 m below the rock socket specified tip elevation. The test boring may be drilled after the steel shell is installed.

Standard Penetration Tests (SPT) shall be made in all soil types and performed in accordance with ASTM D1586 in each test boring at 1.5-m maximum intervals and terminate when bedrock is encountered. Samples shall be taken at 4.5-m intervals in borings drilled at Tower T2 and at 3-m intervals in borings drilled at Tower T3. Soil classification and descriptions shall conform to the requirements for visual-manual procedures in ASTM D2488.

Bedrock shall be continuously cored with at least 90 percent core recovery. Rock shall not be logged from drill cuttings. Rock quality designation (RQD) shall be made taken at 1.5-m maximum intervals. Rock shall be cored using an outer and inner core barrel drilling system. The outer core barrel shall be fitted with either a diamond impregnated or polycrystalline drill bit and have an outside diameter of at least 76 mm. The split inner tube core barrel shall have an inside diameter of at least 50 mm.

Prior to removal from the split inner tube barrels and placement into core boxes, rock cores shall be photographed, and wrapped in a clear material to preserve moisture content and allow examination of cores. After core boxes are filled, and prior to removal from the drilling platform, rock cores shall be photographed. All rock core photographs shall be color, 127 mm x 178 mm, and labeled with the borehole number, sample elevation, scale, and date and time photographed.

The rock cores shall be retained in rock core boxes that are labeled with the job contract number, the pile location, and the sample elevation. Rock core boxes shall be stored on or near the job site at a location approved by the Engineer. The Contractor shall preserve and secure the rock core samples in a weather protected facility until notified by the Engineer. The Engineer will instruct the Contractor to dispose of the rock core samples in accordance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications, or the provisions in "Contaminated and Hazardous Materials" of these special provisions, or the Engineer will instruct the Contractor to transport the rock core samples to Translab at 5900 Folsom Boulevard, Sacramento, CA 95819.

Laboratory testing for strength will be conducted on both soil and rock samples recovered from borings, as approved by the Engineer. The tests shall include, but not be limited to unconfined compression test, Atterberg limit test, and point load test.

The log of test borings including the soil and rock classification shall conform to the document "Soil and Rock Logging Classification Manual: Field Manual," published by the Engineering Service Center, Caltrans, dated August 1995.

After completion of all test borings, the Contractor shall furnish to the Office of Structure Design (OSD), in accordance with the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications, a test boring submittal that includes rock cores, photographs of rock cores, a test boring report and the log of test borings.

All log of test borings shall be 559 mm x 864 mm in size. For initial review, 4 sets of drawings shall be submitted. Within 3 weeks after final approval of the test boring submittal, one set of the corrected prints on 90-g/m² (minimum) good quality bond paper, 559 mm x 864 mm in size, prepared by the Contractor shall be furnished to OSD.

Log of test borings shall show the State assigned designations for the contract number, bridge number, full name of the structure as shown on the contract plans, and District-County-Route-Post mile on each sheet. The test boring/geotechnical subcontractor name, address, and phone number shall be shown on the working drawings. Each sheet shall be numbered in the lower right hand corner and shall contain a blank space in the upper right hand corner for future contract sheet numbers. The following shall be shown on the log of test borings:

1. Stationing and offset of boring.
2. Northing and easting coordinates.
3. Reference elevation and datum.
4. Boring start and completion date.
5. Geotechnical notes and miscellaneous explanations.
6. Drill bit and sampler types and diameters.
7. Percent of core recovery and RQD.
8. Sample numbers.
9. SPT data.
10. Depth increments of borings.
11. Graphic log.
12. Soil classifications and descriptions.
13. Rock classifications and descriptions.
14. Log symbol legend.
15. Signature and seal of the Geologist or Civil Engineer.

The test boring report shall include the following:

1. Summary of drilling methods, drilling equipment, drill platforms, and any drilling difficulties encountered.
2. Location map of the surveyed position of the test borings relative to the existing pier and to the new pile locations (in California Coordinate System and bridge stationing).
3. Bore hole surveying notes.
4. Photographs of rock cores.
5. Copies of original daily drilling notes.

The Engineer will notify the Contractor in writing when a test boring submittal is complete and approved.

Within 10 working days at Towers T2 and T3, and 15 working days at the South Anchorage, of approving in writing the complete test boring submittal, the Engineer will supply the Contractor with written confirmation of, or revisions to, specified pile tip elevations, including specified tip elevations for both steel shell and rock socket, shown on the plans. Rock sockets shall not be drilled, permanent steel shell installation equipment shall not be removed, and filled and unfilled steel casing at the South Anchorage shall not be fabricated or manufactured to length until written confirmation of, or revisions to, the specified pile tip elevations have been supplied by the Engineer. Should the Engineer fail to supply confirmation of or revision to specified pile tip elevations within the time specified and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of this delay, an extension of time commensurate with the delay in completion of the work thus caused will be granted as provided in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

All materials utilized in making test boring shall be disposed of in accordance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications, or the provisions in "Contaminated and Hazardous Materials" of these special provisions.

Full compensation for making test borings, including drilling, sampling, logging and furnishing test boring submittals, and disposal of materials from test boring operations shall be considered as included in the contract price paid for piling of the type or class shown in the Engineer's Estimate, and no separate payment will be made therefor.