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DIVISION OF ENGINEERING SERVICES
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June 3, 2013

10-SJ-12-0.1/R4.4
10-0G8004
Project ID 1000000052
ACNH-P012(112)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN JOAQUIN COUNTY NEAR TERMINOUS FROM MOKELUMNE RIVER BRIDGE TO LITTLE POTATO SLOUGH BRIDGE.

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 Tuesday, June 18, 2013.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, the Bid book, Federal Minimum Wage Rates with Modification 9 dated 05/31/2013 and to provide a copy of an additional Information Handout.

Project Plan Sheets 2, 19, 61, 64, 66 and 81 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 95A and 100A are added. Copies of the added sheets are attached for addition to the project plans.

In the Special Provisions, Section 5-1.11, "SUPPLEMENTAL PROJECT INFORMATION," is revised as attached.

In the Special Provisions, Section 10-1.33, "SETTLEMENT PERIOD & EMBANKMENT LOADING RATE," the fifth paragraph is revised as follows:

"The removal of surplus embankment material placed as roadway embankment or surcharge, including material removed to conform to the finished slope lines shown on the plans, will be paid for at the contract price per cubic yard for roadway excavation."

In the Special Provisions, Section 10-1.62, "GEOTEXTILE REINFORCEMENT FABRIC," is replaced with Section 10-1.62, "GEOSYNTHETIC REINFORCEMENT EMBANKMENT," as attached.

In the Bid book, in the "Bid Item List," Item 52 and 64 are revised, and Item 56 is deleted as attached.

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Page 2
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To Bid book holders:

Replace page 5 and 6 of the "Bid Item List" in the Bid book with the attached revised pages 5 and 6 of the Bid Item List. The revised Bid Item List is to be used in the bid.

Attached is a copy of the Additional Information Handout.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid 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 addendum and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/10/10-0G8004

If you are not a Bid 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,



REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

5-1.11 SUPPLEMENTAL PROJECT INFORMATION

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included in the Information Handout	1. Foundation Report dated May 25, 2011 2. 1602, California Department of Fish and Game Streambed Alteration Agreement 3. 404, United States Army Corps of Engineers Nationwide Permit 4. 401 permits Regional Water Quality Control Board 401 Certification 5. United States Fish and Wildlife Biological Opinion 6. California Department of Fish and Game Amendment of Lake and Streambed Alteration Agreement 7. Geotechnical Design Report for Route 12 Highway Improvement 8. Supplemental Recommendations to Geotechnical Design Report 9. Foundation Report dated December 17, 2012
Available as specified in the Standard Specifications	1. Cross sections 2. A. Alignment 3. Profile

10-1.62 GEOSYNTHETIC REINFORCED EMBANKMENT

GENERAL

Summary

This work includes placing geosynthetic reinforcement on compacted backfill at design elevations and locations. Comply with Section 19, "Earthwork," and Section 88, "Geosynthetics" of the Standard Specifications.

MATERIALS

Geosynthetic Reinforcement

LTDS values of geosynthetic reinforcement must comply with Section 88-1.04, "Reinforcement," of the Standard Specifications and the following:

Geosynthetic Reinforcement Type	LTDS (lb/ft)
Geotextile	1370

Each roll must be labeled with:

1. Manufacturer's name
2. Production identification
3. Roll dimensions
4. Lot number
5. Date of manufacture

Backfill

Backfill must be free from:

1. Organic material
2. Shale, soft, or poor durability particles
3. Recycled materials such as glass, shredded tires, concrete rubble, or other unsuitable materials as determined by the Engineer

Backfill must comply with the requirements in the following 2 tables:

Sieve Size	Percent Passing	California Test No.
1-1/2"	100	202
3/4"	75 - 100	202
No. 4	20 - 100	202
No. 40	0 - 60	202
No. 200	0 - 50	202

Property	Requirement	California Test No.
Plasticity Index	20 max	204
pH	5 to 9	643

If you proposed to use backfill with grading size larger than specified, 4-inch maximum size may be allowed. For backfill grading size larger than specified, include test results and the installation damage reduction factor of each geosynthetic reinforcement with your LTDS calculations. Perform tests for installation damage reduction factors under FHWA-NHI-00-044, Section 5.1.

CONSTRUCTION

Foundation Preparation

Remove loose or extraneous material and sharp objects that may come in contact with the geosynthetic reinforcement. Compact foundation under Section 19-5.03, "Relative Compaction (95 Percent)," of the Standard Specifications.

Geosynthetic Reinforcement Placement

Place geosynthetic reinforcement within 3 inches of the design elevations.

Unless otherwise shown, at least 3 inches of compacted backfill is required between layers of geosynthetic reinforcement.

Geosynthetic reinforcement must be:

1. Secured with staples, pins, or small piles of backfill
2. Placed without wrinkles
3. Aligned with the primary strength direction perpendicular to slope contours
4. Spliced under manufacturer's recommendations
5. Butted edge-to-edge for straight slope contours
6. Butted edge-to-edge at the slope face and fanned out or overlapped into the backfill for curved slope contours

Cover geosynthetic reinforcement with backfill within the same work shift.

Place at least 6 inches of backfill on the geosynthetic reinforcement before operating or driving equipment or vehicles over it, except for equipment or vehicles used under the conditions specified below for spreading backfill.

You may drive equipment or vehicles for spreading backfill directly on the geosynthetic reinforcement if:

1. You comply with manufacturer's recommendations
2. Vehicles have rubber tires
3. Traffic repetitions are minimized
4. Speed of less than 5 miles per hour is maintained
5. Sudden braking and sharp turning is avoided

Where guard railing posts will be placed at the top crest of the geosynthetic reinforced embankment and the geosynthetic reinforcement interferes with placement of posts, you may precut reinforcement of affected layers into cross-shaped patterns. The precutting dimensions must not exceed post dimensions by more than 12 inches.

Do not extend geosynthetic reinforcement into pavement structural section.

If the geogrid reinforcement is damaged during construction, replace it or repair it. Repair by placing additional reinforcement to cover the damaged area and:

1. For reinforcement placed parallel to slope contours, overlapping 5 aperture openings or 8 inches whichever is greater
2. For reinforcement placed perpendicular to slope contours, splicing the edges as recommended by the manufacturer

If the geotextile reinforcement is damaged during construction, replace it.

Backfill Placement and Compaction

Grade and compact backfill to ensure the reinforcement remains taut.

Compact backfill under Section 19-5.04, "Relative Compaction (90 Percent)," of the Standard Specifications. If hand-operated equipment is used to compact backfill, do not place more than 6 inches of backfill before compacting.

Construct embankment slope under Section 19-2.05, "Slopes," of the Standard Specifications.

Use hand-operated equipment to compact backfill areas within 3 feet of:

1. Slope contours
2. Underground structures

Disking and plowing is not allowed in the reinforced area.

MEASUREMENT AND PAYMENT

Geosynthetic reinforcement is measured and paid for by the square yard.

The contract price paid per square yard for geosynthetic reinforcement includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in placing geosynthetic reinforcement complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

BID ITEM LIST
10-0G8004

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	50		
42	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	1,080		
43	025219	IMPORTED BORROW (LIGHTWEIGHT AGGREGATE)	CY	100		
44	198010	IMPORTED BORROW (CY)	CY	800,000		
45	198250	GEOSYNTHETIC REINFORCEMENT	SQYD	132,000		
46	025220	SETTLEMENT PLATFORM, INSTALLATION, AND MONITORING	LS	LUMP SUM	LUMP SUM	
47	203025	COMPOST (INCORPORATE)	SQYD	75,700		
48	203031	EROSION CONTROL (HYDROSEED) (SQFT)	SQFT	2,770,000		
49	210010	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	3		
50	210350	FIBER ROLLS	LF	50,300		
51	260203	CLASS 2 AGGREGATE BASE (CY)	CY	85,800		
52	390131	HOT MIX ASPHALT	TON	37,300		
53	390140	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	18,000		
54	394053	SHOULDER RUMBLE STRIP (HMA,GROUND-IN INDENTATIONS)	STA	900		
55	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
56	BLANK					
57	397005	TACK COAT	TON	120		
58	490742	FURNISH PILING (CLASS 90) (ALTERNATIVE W)	LF	12,000		
59	490743	DRIVE PILE (CLASS 90) (ALTERNATIVE W)	EA	152		
60	490746	FURNISH PILING (CLASS 140) (ALTERNATIVE W)	LF	1,816		

BID ITEM LIST
10-0G8004

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	490747	DRIVE PILE (CLASS 140) (ALTERNATIVE W)	EA	16		
62	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
63 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	295		
64 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	670		
65 (F)	510088	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N MODIFIED)	CY	46		
66	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	30.1		
67 (F)	519088	JOINT SEAL (MR 1")	LF	110		
68 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	43,300		
69	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	32,100		
70	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	99		
71	560249	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	37		
72	560252	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-FRAMED)	SQFT	25		
73	566011	ROADSIDE SIGN - ONE POST	EA	12		
74	566012	ROADSIDE SIGN - TWO POST	EA	2		
75	025221	60" PLASTIC PIPE	LF	330		
76	650014	18" REINFORCED CONCRETE PIPE	LF	630		
77	650026	36" REINFORCED CONCRETE PIPE	LF	320		
78	650042	60" REINFORCED CONCRETE PIPE	LF	520		
79	025222	HORIZONTAL STRIP DRAIN	LF	22,700		
80	685200	DRAINAGE WICK	LF	2,840,000		