

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Serious Drought.
Help save water!*

July 29, 2016

01-Men-101-52.1/52.6

01-262014

Project ID 0112000205

ACNH-Q101(299)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN MENDOCINO COUNTY NEAR WILLITS FROM 1.3 MILES NORTH OF REYNOLDS HIGHWAY TO 0.1 MILE NORTH OF RYAN CREEK ROAD to revise the project plans, the *Notice to Bidders and Special Provisions*, the *Bid* book and the Federal Minimum Wages with Modification Number 5 dated 07/29/2016.

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, August 16, 2016.

Project plan sheets 28, 29 and 36 are replaced and attached for substitution for the like-numbered sheets.

In the *Notice to Bidders*, the seventh paragraph is revised as follows:

"The Contractor must have either a Class A license or a combination of Class C licenses which constitutes a majority of the work."

In the Special Provisions, Section 72-6, "ROCK WEIR," is replaced as attached.

In the Special Provisions, Section 72-7, "CLEAN SAND AND GRAVEL," is replaced as attached.

In the Special Provisions, Section 72-8, "BANKLINE ROCK," is replaced as attached.

In the Special Provisions, Section 72-9, "ROCK SLOPE PROTECTION BACKFILL," is replaced as attached.

In the Special Provisions, Section 72-10, "ENGINEERED STREAMBED MATERIAL," is replaced as attached.

In the Special Provisions, Section 70-10.04, "PAYMENT," the first paragraph is replaced as follows:

"Full compensation for settlement instrumentation and monitoring is included in the payment for the bid item Double 120" Steel Pipe (Rammed) shown in the Bid Item List."

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In the *Bid* book, in the "Bid Item List," Items 29, 52, 57, 59 and 63 are replaced.

To *Bid* book holders:

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*.

Submit the *Bid* book as described in the *Electronic Bidding Guide* at the Bidders' Exchange website.

http://www.dot.ca.gov/hq/esc/oe/electronic_bidding/electronic_bidding.html

Inform subcontractors and suppliers as necessary.

This addendum, EBS addendum file, attachments and the modified wage rates are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/01/01-262014

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,



CHARLIE FIELDER
District Director

Attachments

**Replace section 72-6 with:
72-6 ROCK WEIR**

72-6.01 GENERAL

Section 72-6 includes specifications for constructing rock weir.

Rock slope protection must comply with section 72-2

Main channel excavation must comply with section 19-3

Structure excavation must comply with section 19-3

72-6.02 MATERIALS

72-6.02(1) General

Rock weir filler is made up of 92.5% of imported rock weir filler and 7.5% native streambed material.

72-6.02(2) Native Streambed Material

Excavate from the streambed's main channel for native streambed material.

72-6.02(3) Imported Rock Filler Gradation

The portion of the imported rock weir filler must consist of a coarse and fine aggregate mixture conforming to the gradation requirements shown in the following table:

Rock Weir Filler Gradation

Sieve Size	Percent Passing
3 inches	95-100
2 inches	85-98
1 ½ inches	51-90
1 inch	27-60
¾ inch	18-45
½ inch	5-25
3/8 inch	2-18
#4	0-6

Note: Minor deviations to the gradation table may be allowed subject to review and approval of the Engineer, prior to incorporation into the work.

72-6.02(4) Plastic Liner

The plastic liner must a 10-mil thick, single-ply geomembrane material complying with ASTM D2103 and must be free of holes, punctures, tears and other defects that compromise the impermeability of the material. Plastic liner must not have seams or loose joints. All joints between the edges must be lapped or joined with commercial quality waterproof tape.

72-6.03 CONSTRUCTION

Excavate from the streambed's main channel for the native streambed material. Excavate per the stakes provided by the Engineer.

Stockpile the native streambed material on a plastic liner.

Mix the imported rock weir filler with the native streambed material until consistent throughout. The mixture shall be placed in a manner to avoid segregation.

The rock weirs are constructed in layers. The RSP No.3 is placed as per detail drawing. The 1/2 Ton rocks are next and must be placed individually, and arranged so that each rock has a 3-point contact with adjacent rock. The 1 Ton rocks are then placed as per the detail drawing and must be placed individually, and arranged so that each rock has a 3-point contact with adjacent rock. Placing 1/2 Ton or 1 Ton rock by dumping will not be permitted.

After 1/2 Ton and 1 Ton rock lifts have been placed, rock weir filler must be dumped between the voids of each rock, hand-tamped with a 10.00 lb steel rod for a minimum of 10 tamps per void in conjunction with applying water with a nozzle pressure between 60 – 73 psi until voids are full. The excess rock weir filler on top of each layer of rock must be removed.

After weir construction, backfill outside channel limits can be done with native material free of organic or other unsatisfactory material. Backfill inside channel limits must use clean sand and gravel.

72-6.04 PAYMENT

Not Used.

**Replace section 72-7 with:
72-7 Clean Sand and Gravel**

72-7.01 GENERAL

Section 72-7 includes specifications for clean sand and gravel.

Rock slope protection must comply with section 72

72-7.02 MATERIALS

The clean sand and gravel must clean and free of organic matter and other deleterious substances. The clean sand and gravel must conform to the gradation requirements shown in the following table:

Clean Sand and Gravel Gradation

Sieve Size	Percent Passing
5 inches	95-100
2 inches	75-85
1 inches	40-50
¾ inch	25-35
½ inch	10-20
¼ inch	0-5

72-7.03 CONSTRUCTION

The clean sand and gravel mixture must be delivered as a uniform mixture, and must be deposited in a manner to avoid segregation. The material must be spread and graded to conform to the required thickness, grade, and details shown on the plans.

Compact the clean sand and gravel to at least 90 percent relative compaction.

72-7.04 PAYMENT

Not Used

**Replace section 72-8 with:
72-8 BANKLINE ROCK**

72-8.01 GENERAL

72-8.01A General

Section 72-8 includes specifications for bankline rock.

Structure excavation must comply with section 19-3

Main channel excavation must comply with section 19-3

Rock slope protection must comply with section 72.

Clean sand and gravel must comply with section 72-7

72-8.01B MATERIALS

72-8.01B(1) General

Bankline Rock is made up of 92.5% imported bankline rock and 7.5% native streambed material.

72-8.01B(2) Native Streambed Material

Excavate from the streambed's main channel for native streambed material.

72-8.01B(3) Imported Bankline Rock

The portion of the imported bankline rock for the North Fork of Ryan Creek must conform to the following:

NORTH FORK IMPORTED BANKLINE ROCK

Size	Percent by volume
RSP (1/4 Ton, Method B)	10
RSP (Light, Method B)	40
RSP (No.3, Method B)	20
Clean Sand and Gravel	30

The portion of the imported bankline rock for the South Fork of Ryan Creek must conform to the following:

SOUTH FORK IMPORTED BANKLINE ROCK

Size	Percent by volume
1/4 Ton	30
RSP (Light, Method B)	20
RSP (No.3, Method B)	20
Clean Sand and Gravel	30

72-8.01B(4) Plastic Liner

The plastic liner must be a 10-mil thick, single-ply geomembrane material complying with ASTM D2103 and must be free of holes, punctures, tears or other defects that compromise the impermeability of the material. Plastic liner must not have seams or loose joints. All joints between the edges must be lapped or joined with commercial quality waterproof tape.

72-8.01C CONSTRUCTION

Excavate from the streambed's main channel for the native streambed material. Excavate per the stakes provided by the Engineer.

Stockpile the native streambed material on a plastic liner.

Mix the imported bankline rock with the native streambed material until consistent throughout. The mixture shall be placed in a manner to avoid segregation.

Bankline rock must be placed in two lifts of equal thickness.

After bankline rock has been placed, hand-tamped with a 10.00 lb steel rod for a minimum of 10 tamps in the areas between RSP in conjunction either applying water with a nozzle pressure between 60 – 73 psi. If voids develop native streambed material must be placed, tamped and water applied until voids are full.

Place bankline rock to the thickness and grade shown.

72-8.01D PAYMENT

Not Used

**Replace section 72-9 with:
72-9 ROCK SLOPE PROTECTION BACKFILL**

72-9.01 GENERAL

Section 72-9 includes specifications for rock slope protection backfill.

Structure excavation must comply with section 19-3

Main channel excavation must comply with section 19-3

Rock slope protection must comply with section 72

Clean sand and gravel must comply with section 72-7

Rock weir filler must comply with Section 72-6

72-9.01B MATERIALS

72-9.01B(1) General

Rock slope protection backfill is made up of 92.5% imported rock slope backfill and 7.5% native streambed material.

72-9.01B(2) Native Streambed Material

Excavate from the streambed's main channel for native streambed material.

72-9.01B(3) Imported Rock Slope Backfill

The portion of the imported rock slope protection material for the North Fork of Ryan Creek must conform to the following:

NORTH FORK IMPORTED ROCK SLOPE PROTECTION BACKFILL

Size	Percent by volume
RSP (1/4 Ton, Method B)	10
RSP (Light, Method B)	40
RSP (No.3, Method B)	15
Clean Sand and Gravel	35

The portion of the imported rock slope backfill for the South Fork of Ryan Creek must conform to the following:

SOUTH FORK IMPORTED ROCK SLOPE PROTECTION BACKFILL

Size	Percent by volume
1/4 Ton	40
RSP (Light, Method B)	10
RSP (No.3, Method B)	20
Clean Sand and Gravel	30

72-9.01B(4) Plastic Liner

The plastic liner must a 10-mil thick, single-ply geomembrane material complying with ASTM D2103 and must be free of holes, punctures, tears or other defects that compromise the impermeability of the material. Plastic liner must not have seams or loose joints. All joints between the edges must be lapped or joined with commercial quality waterproof tape.

72-9.01C CONSTRUCTION

Excavate from the streambed's main channel for the native streambed material. Excavate per the stakes provided by the Engineer.

Stockpile the native streambed material on a plastic liner.

Mix the imported rock slope protection backfill with the native streambed material until consistent throughout. The mixture must be placed in a manner to avoid segregation.

RSP backfill must be placed in two lifts of equal thickness.

After each lift of RSP backfill has been placed, hand-tamped with a 10.00 lb steel rod for a minimum of 10 tamps areas between RSP in conjunction either applying water with a nozzle pressure between 60 – 73 psi. If voids develop native streambed material must be placed, tamped and water applied until voids are full.

Place rock slope backfill to the thickness and grade shown.

72-9.01D PAYMENT

Not Used

**Replace section 72-10 with:
72-10 ENGINEERED STREAMBED MATERIAL**

72-10.01 GENERAL

72-10.01A General

Section 72-10 includes specifications for engineered streambed material.

Structure excavation must comply with section 19-3

Main channel excavation must comply with section 19-3

Rock slope protection must comply with section 72.

Clean sand and gravel must comply with section 72-7

72-10.01B MATERIALS

72-10.01B(1) General

Engineered streambed material is made up of 80% imported engineered streambed material and 20% native streambed material.

72-10.01B(2) Native Streambed Material

Excavate from the streambed's main channel for native streambed material.

72-10.01B(3) Imported Engineered Streambed Material

The portion of the imported engineered streambed material for the North Fork of Ryan Creek must conform to the following:

NORTH FORK IMPORTED ENGINEERED STREAMBED MATERIAL

Size	Percent by volume
RSP (Light, Method B)	20
RSP (No.2, Method B)	30
RSP (No.3, Method B)	25
Clean Sand and Gravel	25

The portion of the imported engineered streambed material for the South Fork of Ryan Creek must conform to the following:

SOUTH FORK IMPORTED ENGINEERED STREAMBED MATERIAL

Size	Percent by volume
RSP (Light, Method B)	30
RSP (No.2, Method B)	20
RSP (No.3, Method B)	25
Clean Sand and Gravel	25

72-10.01B(4) Plastic Liner

The plastic liner must a 10-mil thick, single-ply geomembrane material complying with ASTM D2103 and must be free of holes, punctures, tears or other defects that compromise the impermeability of the material. Plastic liner must not have seams or loose joints. All joints between the edges must be lapped or joined with commercial quality waterproof tape.

72-10.01C CONSTRUCTION

Excavate from the streambed's main channel for the native streambed material. Excavate per the stakes provided by the Engineer.

Stockpile the native streambed material on a plastic liner.

Mix the imported engineered streambed material with the native streambed material until consistent throughout. The mixture must be placed in a manner to avoid segregation.

Engineered streambed material rock must be placed in two lifts of equal thickness.

After each lift of engineered streambed material is placed, compact material, in conjunction with applying water with a nozzle pressure between 60-73 psi, to at least 90 percent relative compaction.

Place engineered streambed material to the thickness and grade shown.

72-10.01D PAYMENT

Not Used

BID ITEM LIST

01-262014

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	130900	TEMPORARY CONCRETE WASHOUT	LS	LUMP SUM	LUMP SUM	
22	031292	TEMPORARY DEWATERING	LS	LUMP SUM	LUMP SUM	
23	031293	TEMPORARY CLEAR WATER DIVERSION	LS	LUMP SUM	LUMP SUM	
24	141000	TEMPORARY FENCE (TYPE ESA)	LF	3,300		
25	146002	CONTRACTOR-SUPPLIED BIOLOGIST (LS)	LS	LUMP SUM	LUMP SUM	
26	146004	FISH PROTECTION	LS	LUMP SUM	LUMP SUM	
27	150204	ABANDON CULVERT (LF)	LF	125		
28	150607	REMOVE FENCE (TYPE WM)	LF	630		
29	150620	REMOVE GATE	EA	2		
30	150821	REMOVE HEADWALL	EA	2		
31	152255	RESET MAILBOX	EA	2		
32	155232	SAND BACKFILL	CY	87		
33	160102	CLEARING AND GRUBBING (LS)	LS	LUMP SUM	LUMP SUM	
34	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	
35	190101	ROADWAY EXCAVATION	CY	250		
36	190185	SHOULDER BACKING	TON	5		
37 (F)	031294	STRUCTURE EXCAVATION (OVER EXCAVATION)	CY	80.6		
38 (F)	031295	STRUCTURE EXCAVATION (OVER EXCAVATION, TYPE D)	CY	403.5		
39 (F)	031296	STRUCTURE BACKFILL (OVER EXCAVATION)	CY	605.6		
40	194001	DITCH EXCAVATION	CY	71		

BID ITEM LIST
01-262014

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	198010	IMPORTED BORROW (CY)	CY	520		
42	031297	LIVE SILTATION	LF	260		
43	031298	ROOTWAD REVETMENT (TYPE 1)	EA	6		
44	031299	ROOTWAD REVETMENT (TYPE 2)	EA	4		
45	210270	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	31,500		
46	210300	HYDROMULCH	SQFT	73,500		
47	210350	FIBER ROLLS	LF	960		
48	210420	STRAW	SQFT	42,000		
49	210430	HYDROSEED	SQFT	73,500		
50	210600	COMPOST	SQFT	73,500		
51	031300	DISKING	ACRE	.7		
52	210630	INCORPORATE MATERIALS	SQFT	84,000		
53	260203	CLASS 2 AGGREGATE BASE (CY)	CY	400		
54	390132	HOT MIX ASPHALT (TYPE A)	TON	530		
55	393004	GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC)	SQYD	2,100		
56	397005	TACK COAT	TON	.2		
57 (F)	510092	STRUCTURAL CONCRETE, HEADWALL	CY	180.5		
58 (F)	031301	12'X11' PRECAST REINFORCED CONCRETE BOX	LF	88.3		
59 (F)	520101	BAR REINFORCING STEEL	LB	15,952		
60	031302	DOUBLE 120" STEEL PIPE (RAMMED)	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST**01-262014**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61 (F)	031303	ROCK SLOPE PROTECTION BACKFILL	CY	92.5		
62 (F)	031304	ENGINEERED STREAMBED MATERIAL	CY	797.7		
63 (F)	031305	BANKLINE ROCK	CY	783.1		
64 (F)	031306	ROCK WEIR	CY	1,434.5		
65	031307	SAND AND GRAVEL	CY	22		
66	800051	FENCE (TYPE WM, METAL POST)	LF	560		
67	801360	12' METAL GATE	EA	1		
68 (F)	839521	CABLE RAILING	LF	226		
69	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	580		
70	840525	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	LF	100		
71	850122	PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	EA	3		
72	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	