

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Flex your power!
Be energy efficient!*

March 4, 2014

06-Kin-198-R16.5/R17.2

06-487504

Project ID 0600000488

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN KINGS COUNTY IN HANFORD FROM 0.4 MILE WEST OF 12TH AVENUE OVERCROSSING TO 0.3 MILE EAST OF 12TH AVENUE OVERCROSSING.

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 Wednesday, March 12, 2014.

This addendum is being issued to revise the project plans, the *Notice to Bidders and Special Provisions* and the *Bid* book.

Project plan sheets 1, 131 and 136 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheet 141A is added and attached for addition to the project plans.

In the Special Provisions, Section 2 BIDDING, 2-1.06B, "Supplemental Project Information," is replaced as follows:

"Add to section 2-1.06B:

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included in the <i>Information Handout</i>	Railroad relations and insurance requirements Foundation Report (Br. No. 45-0099), March 22, 2011
Available as specified in the <i>Standard Specifications</i>	Cross sections and Electronic Cross Sections Bridge as built drawings

In the Special Provisions, Section 5-1.36D, is replaced as attached.

In the Special Provisions, Section 86-6.15, is replaced as attached.

In the Special Provisions, Section 86-6.17, is deleted.

The Electronic Cross Sections are added as attached.

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In the *Bid* book, in the "Bid Item List," Items 74 and 75 are replaced as attached.

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/06/06-487504

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,



MOHSEN SULTAN
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

Add to section 5-1.36D:

The utility owner will relocate a utility shown in the following table before the corresponding date shown:

Utility Relocation and Date of the Relocation

Utility	Location	Date
Water line	From station 19+00 to 38+00 (T1 line)	05/30/2014
Telephone line	Station 18+50 and 37+50 (T1 line),	08/30/2014
Aerial & underground facilities	On 12 Avenue, from station 18+00 to 25+00 (T1 line); On 12 Avenue, station 35+00 to 38+00 (T1 line)	08/30/2014

If installation of the utilities shown in the following table is not completed before your construction starts, it requires coordination with your activities. Make the necessary arrangements with the utility company through the Engineer and submit a schedule:

1. Verified by a representative of the utility company
2. Allowing at least the time shown for the utility owner to complete its work
3. Installing the proposed service equipment enclosures as shown and coordinating with the utility company to de-energize the existing service equipment enclosures and energize the new service equipment enclosures.

After the new service equipment enclosures are energized, you must maintain temporary power to existing electrical facilities using the new service equipment enclosures. Submit the work plan to the Engineer for review and approval.

Utility Relocation and Contractor-Arranged Time for the Relocation

Utility	Utility address	Location	Days
Southern Cal Edison (SCE)	10060 Telegraph Road Ventura, CA 93004	Station 18+50 and 37+50 (T1 line)	30
Southern Cal Edison (SCE)	10060 Telegraph Road Ventura, CA 93004	On 12 Avenue, from station 18+00 to 25+00 (T1 line); On 12 Avenue, station 35+00 to 38+00 (T1 line)	30
San Joaquin Valley Railroad Company	Contact: Gavin Martin Phone No.: (904)899-5612	Station 38+00 (T1 line)	30

Add to section 86-6:

86-6.15 WIRELESS MODEM

86-6.15A General

86-6.15A(1) Summary

Section 86-2.19 includes specifications for installing wireless modem.

86-6.15A(2) Submittal

You must provide one installation, operation, and service manual for each wireless modem provided in the contract.

Provide a certificate of compliance from the manufacturer for all wireless modems.

Submit warranty documentation before installation.

86-6.15A(3) Quality Control and Assurance

86-6.15A(3)(a) Acceptance testing

You must configure and test the modem remotely. Demonstrate proper operation of the modem by successfully configuring the modem by modifying settings, checking the signal strength, and checking for status of the TCP/IP connection. Perform visual check of the LED status lights to see that the LED lights are functioning properly.

86-6.15A(3)(b) Warranty

Provide two year replacement warranty from the manufacturer of wireless modem from the date of installation against any defects or failures. Manufacturer must provide replacement of modem within five days after receipt of failed modem at no cost to the Department.

A completed form will be returned to you for each wireless modem certifying that the modem has been fully functional on the date specified.

Warranty's address and delivery of replacement equipment must use the following address:

Traffic Management Center
1352 W. Olive Ave., Fresno, CA 93728

86-6.15B Material

86-6.15B(1) General

The wireless modem must provide wireless data transmission between the field units and the Transportation Management Center (TMC). The modem and antenna must not cause interference with other electrical equipment in the cabinet.

You must furnish, install, integrate, and test all equipment and components necessary to provide complete functionality of the wireless system. The wireless modem must consist of the modem, an external antenna, antenna cable, TIA-232 serial cable, and a power adapter.

The wireless modem must meet or exceed the minimum requirements as shown in the following table:

Wireless Modem

Communications	TIA-232
Wireless communications	4G/LTE with fallback to CDMA/EV-DO
Baud rate supported	300 to 230400 bps
Serial connector	DB9M
Input voltage	10-30 V(dc)
Power consumption	1 to 12 Watt
Operating temperature	From -30 to 155 °F
Standards compliance	TIA-678
Network protocols	TCP/IP, UDP/IP, HTTP, SNMP, SMTP, SMS, MSCI, NMEA, TAIP, and GPS
Persistent network connectivity	99.2 % error free operation with auto reconnect
Status LED indicators	Power, receive, transmit, RSSI (signal strength)
Network port	10/100 Base-T Ethernet

86-6.15B(2) Software Requirements

The wireless modem must have firmware, software, hardware, and protocol features that must be fully compatible with the existing network and with the service provider. The software configuration package must be supplied for the wireless system at no extra cost. The control software configuration package must have features to provide for remote programming, remote maintenance, and system diagnostics.

86-6.15B(3) Antenna

The external antenna must be of a low profile design with integrated ground plane for outdoor permanent mount on a metallic structure and compatible with 4G/LTE communications.

86-6.15B(4) TIA-232 Serial Port

The modems must be configurable remotely through the wireless network or through the modem serial port. The modem must have the DB9M pins shown in the following table:

Modem TIA-232 Signal	DB9M Plug Connector Pin
RD	2
TD	3
RTS	7
CTS	8
Signal GND	5
DCD	1
DTR	4
DSR	6

86-6.15C Construction

Mount the wireless modem in the cabinet as directed. You must use cable ties, wire mounting devices, and fixed diameter clamps in the controller cabinet and equipment rack to avoid physical interference between cables and adjacent equipment.

Before permanently installing the antenna, you must conduct signal strength measurements to verify signal strength per the manufacturer requirements. The antenna must be mounted at the top of the cabinet with antenna cable routed so as not to interfere with the fan assembly. Install the antenna and apply 100-percent-clear silicon-rubber sealant.

86-6.15D Payment

Not Used

BID ITEM LIST
06-487504

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	210300	HYDROMULCH	SQFT	462,000		
62	210430	HYDROSEED	SQFT	462,000		
63	260203	CLASS 2 AGGREGATE BASE (CY)	CY	10,500		
64	390011	PREPAVING INERTIAL PROFILER	LS	LUMP SUM	LUMP SUM	
65	390131	HOT MIX ASPHALT	TON	20,900		
66	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	150		
67	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	5,510		
68	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	190		
69	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	72		
70	397005	TACK COAT	TON	21		
71	460210	GROUND ANCHOR (SUBHORIZONTAL)	EA	45		
72	044140	FURNISH PILING (CLASS 200) (ALTERNATIVE X)	LF	1,435		
73	044141	DRIVE PILE (CLASS 200) (ALTERNATIVE X)	EA	20		
74	498042	30" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	53		
75	498044	36" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	13		
76	498050	54" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	38		
77	498052	60" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	22		
78	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
79 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	55		
80 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	408		