

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**BID TO THE DEPARTMENT OF TRANSPORTATION**  
DES-OE-0102.1 (REV. 3/2011)

---

---

CONTRACT NO. 11 - 265304

NAME OF BIDDER Granite Construction Company  
BUSINESS P.O. BOX P.O. Box 50085  
CITY, STATE, ZIP Watsonville, CA 95077-5085  
BUSINESS STREET ADDRESS 585 W. Beach Street  
(Include even if P.O. Box used)  
CITY, STATE, ZIP Watsonville, CA 95076  
TELEPHONE NO: AREA CODE (831 ) 724-1011  
FAX NO: AREA CODE (831 ) 768-4021  
CONTRACTOR LICENSE NO. 89

1. Bidder agrees, if this bid is accepted, to enter into a contract with the Department, in the form included in the Standard Specifications, to perform the work provided in the Contract under the terms of the Contract for the price or prices bid.

For a lump sum or unit price based bid, Bidder additionally agrees to perform the work within the number of working days shown on the *Notice to Bidders*.

For a cost plus time based bid on a contract without a plant establishment period, Bidder additionally agrees to perform the work within the number of working days bid.

For a cost plus time based bid on a contract with a plant establishment period, Bidder additionally agrees to perform the non-plant establishment work within the number of working days bid for non-plant establishment work.

2. For a lump sum based bid, Bidder submits this bid with a total price in the total bid space provided on the Bid Item List. For a unit price or cost plus time based bid, Bidder submits this bid with a unit price and the item total (the product of the unit price and the quantity) for each item and a total price (the sum of the item totals) in the spaces provided on the attached Bid Item List. For a unit price with additive item based bid, Bidder submits this bid with a unit price and an item total for each item and a total base bid (the sum of the item totals) and the additive items in the spaces provided on the attached Bid Item List. Additionally, for a cost plus time based bid, Bidder submits this bid with working days bid for non-plant establishment work, total bid for time, and total bid for bid comparison in the spaces provided on the Bid Item List. Bidder agrees:
  - 2.1. If a discrepancy between the unit price and the item total exists, the unit price prevails except:
    - 2.1.1. If the unit price is illegible, omitted, or the same as the item total, item total prevails and the unit price is the quotient of the item total and the quantity.
    - 2.1.2. If a decimal error is apparent in the product of the unit price and the quantity, the Department will use either the unit price or item total based on the closest by percentage to the unit price or item total in the Department's Final Estimate.
  - 2.2. If the unit price and the item total are illegible or are omitted, the bid may be determined nonresponsive. If a lump sum total price is illegible or is omitted, the bid may be determined nonresponsive.
  - 2.3. Bids on lump sum items are item totals. If a unit price for a lump sum item is entered and it differs from the item total, the item total prevails.
  - 2.4. Entries are to be expressed in dollars or decimal fractions of a dollar. Symbols such as commas and dollar signs are ignored and have no significance in establishing unit price or item total.
  - 2.5. Unit prices and item totals are interpreted by the number of digits and decimal placement. Do not round item totals or the total bid.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**BID TO THE DEPARTMENT OF TRANSPORTATION**  
DES-OE-0102.1 (REV. 3/2011)

- 2.6. For a lump sum based bid, the item total is the bid amount the Department uses for bid comparison.  
For a unit price based bid, the sum of the item totals is the bid amount the Department uses for bid comparison.  
For a cost plus time based bid, the sum of the item totals and the total bid for time is the bid amount the Department uses for bid comparison.
- 2.7. The Department's decision on the bid amount is final.

3. Bidder has and acknowledges the following addenda:

No. 1 (one), 2 (two), 3 (three), 4 (four)

4. Bidder submits this bid with one of the following forms of bidder's security equal to at least 10 percent of the bid:

Cash \$ \_\_\_\_\_, Cashiers Check, Certified Check, Bidder's Bond

5. Bidder's signature is an affirmation of the included certifications. Bidder is cautioned that making a false certification may result in one or more of the following:

- 5.1. Criminal prosecution
- 5.2. Rejection of the bid
- 5.3. Rescission of the award
- 5.4. Termination of the Contract

BY (Authorized Signature)

*DA Donnelly*

DATE SIGNED (Do not type)

*02-12-15/11-01/05/12* <sup>DD</sup>  
*01/19/12*

PRINTED NAME AND TITLE OF PERSON SIGNING

David A. Donnelly - Area Manager

Granite Construction Company

**BID ITEM LIST**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM 2,000 <sup>00</sup>	2,000 <sup>00</sup>
2	070018	TIME-RELATED OVERHEAD	LS	LUMP SUM	LUMP SUM 100,000 <sup>00</sup>	100,000 <sup>00</sup>
3	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM 2,000 <sup>00</sup>	2,000 <sup>00</sup>
4	074017	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM 800 <sup>00</sup>	800 <sup>00</sup>
5	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	83	150 <sup>00</sup>	12,450 <sup>00</sup>
6	074042	TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	LUMP SUM	LUMP SUM 2,000 <sup>00</sup>	2,000 <sup>00</sup>
7	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM 22,775 <sup>00</sup>	22,775 <sup>00</sup>
8	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM 100,000 <sup>00</sup>	100,000 <sup>00</sup>
9	120199	TRAFFIC PLASTIC DRUM	EA	110	5 <sup>00</sup>	550 <sup>00</sup>
10	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	8	1,000 <sup>00</sup>	8,000 <sup>00</sup>
11	129000	TEMPORARY RAILING (TYPE K)	LF	2,220	1 <sup>00</sup>	2,220 <sup>00</sup>
12	129100	TEMPORARY CRASH CUSHION MODULE	EA	240	5 <sup>00</sup>	1,200 <sup>00</sup>
13	141101	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	1,640	2 <sup>00</sup>	3,280 <sup>00</sup>
14	150662	REMOVE METAL BEAM GUARD RAILING	LF	10,200	6 <sup>50</sup>	66,300 <sup>00</sup>
15	150711	REMOVE PAINTED TRAFFIC STRIPE	LF	5,010	0 <sup>70</sup>	3,507 <sup>00</sup>
16	150771	REMOVE ASPHALT CONCRETE DIKE	LF	21,000	1 <sup>00</sup>	21,000 <sup>00</sup>
17	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	184,000	1 <sup>78</sup>	327,520 <sup>00</sup>
18	153210	REMOVE CONCRETE	CY	13	350 <sup>00</sup>	4,550 <sup>00</sup>
19	190101	ROADWAY EXCAVATION	CY	1,060	50 <sup>00</sup>	53,000 <sup>00</sup>
20	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM 1,900 <sup>00</sup>	1,900 <sup>00</sup>

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	260201	CLASS 2 AGGREGATE BASE	CY	440	37 <sup>00</sup>	16,280 <sup>00</sup>
22	374002	ASPHALTIC EMULSION (FOG SEAL COAT)	TON	29	600 <sup>00</sup>	17,400 <sup>00</sup>
23	390095	REPLACE ASPHALT CONCRETE SURFACING	CY	290	250 <sup>00</sup>	72,500 <sup>00</sup>
24	390132	HOT MIX ASPHALT (TYPE A)	TON	300	100 <sup>00</sup>	30,000 <sup>00</sup>
25	390136	MINOR HOT MIX ASPHALT	TON	400	100 <sup>00</sup>	40,000 <sup>00</sup>
26	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	20,700	115 <sup>00</sup>	2,380,500 <sup>00</sup>
27	394060	DATA CORE	LS	LUMP SUM	LUMP SUM 1,000 <sup>00</sup>	1,000 <sup>00</sup>
28	394071	PLACE HOT MIX ASPHALT DIKE	LF	21,000	125	26,250 <sup>00</sup>
29	397005	TACK COAT	TON	39	1,200 <sup>00</sup>	46,800 <sup>00</sup>
30	021991	JOINTED PLAIN CONCRETE PAVEMENT (RAMP TERMINI WITH RAPID STRENGTH CONCRETE)	CY	470	400 <sup>00</sup>	188,000 <sup>00</sup>
31	406050	DOWEL BAR (DRILL AND BOND)	EA	48	30 <sup>00</sup>	1,440 <sup>00</sup>
32	411105	INDIVIDUAL SLAB REPLACEMENT (RSC)	CY	37	900 <sup>00</sup>	33,300 <sup>00</sup>
33	413111	REPAIR SPALLED JOINTS	SQYD	26	700 <sup>00</sup>	18,200 <sup>00</sup>
34	413115	SEAL JOINT (EXISTING CONCRETE PAVEMENT)	LF	84,400	2 <sup>10</sup>	177,240 <sup>00</sup>
35	420201	GRIND EXISTING CONCRETE PAVEMENT	SQYD	99,000	454	449,460 <sup>00</sup>
36 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	31	1,600 <sup>00</sup>	49,600 <sup>00</sup>
37	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	20	15 <sup>00</sup>	300 <sup>00</sup>
38	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	5	75 <sup>00</sup>	375 <sup>00</sup>
39	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	14	800 <sup>00</sup>	11,200 <sup>00</sup>
40	820118	GUARD RAILING DELINEATOR	EA	240	15 <sup>00</sup>	3,600 <sup>00</sup>

**BID ITEM LIST**

11-265304

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	832001	METAL BEAM GUARD RAILING	LF	8,440	22 <sup>00</sup>	185,680 <sup>00</sup>
42	839541	TRANSITION RAILING (TYPE WB)	EA	18	2,950 <sup>00</sup>	53,100 <sup>00</sup>
43	839576	END CAP (TYPE A)	EA	5	200 <sup>00</sup>	1,000 <sup>00</sup>
44	839581	END ANCHOR ASSEMBLY (TYPE SFL)	EA	16	600 <sup>00</sup>	9,600 <sup>00</sup>
45	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	24	2,300 <sup>00</sup>	55,200 <sup>00</sup>
46	839701	CONCRETE BARRIER (TYPE 60)	LF	480	60 <sup>00</sup>	28,800 <sup>00</sup>
47	BLANK					
48	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	93,100	0 <sup>26</sup>	24,206 <sup>00</sup>
49	840506	8" THERMOPLASTIC TRAFFIC STRIPE	LF	11,700	0 <sup>80</sup>	9,360 <sup>00</sup>
50	840508	8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	LF	10,300	0 <sup>40</sup>	4,120 <sup>00</sup>
51	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	1,670	3 <sup>00</sup>	5,010 <sup>00</sup>
52	840525	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	LF	68,400	0 <sup>21</sup>	14,364 <sup>00</sup>
53	840526	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	LF	2,610	0 <sup>30</sup>	783 <sup>00</sup>
54	840655	PAINT TRAFFIC STRIPE (1-COAT)	LF	8,150	0 <sup>40</sup>	3,260 <sup>00</sup>
55	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	5,980	1 <sup>40</sup>	8,372 <sup>00</sup>
56	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	3,800	3 <sup>10</sup>	11,780 <sup>00</sup>
57	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM 500 <sup>00</sup>	500 <sup>00</sup>
58	860251	SIGNAL AND LIGHTING (LOCATION 1)	LS	LUMP SUM	LUMP SUM 25,000 <sup>00</sup>	25,000 <sup>00</sup>
59	860252	SIGNAL AND LIGHTING (LOCATION 2)	LS	LUMP SUM	LUMP SUM 25,000 <sup>00</sup>	25,000 <sup>00</sup>
60	860810	INDUCTIVE LOOP DETECTOR	EA	54	600 <sup>00</sup>	32,400 <sup>00</sup>

CA

**BID ITEM LIST**  
11-265304

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	BLANK					
62	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	1	2,875 <sup>00</sup>	2,875 <sup>00</sup>
63	9999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM 284,450 <sup>00</sup>	284,450 <sup>00</sup>

**TOTAL BID:**

\$ 5,083,357<sup>00</sup>

**TOTAL BID FOR ITEMS:**

\$ 5,083,357<sup>00</sup>

**TOTAL BID FOR TIME:**

$$\frac{40}{\text{WORKING DAYS BID (Not to exceed 135 Days)}} \times \frac{\$8,000.00}{\text{COST PER DAY}} = \underline{\underline{\$ 320,000<sup>00</sup>}}$$

**TOTAL BID FOR COMPARISON (COST PLUS TIME):**

\$ 5,403,357<sup>00</sup>

6 *PS*

# GRANITE

## FAX COVER SHEET

January 20, 2012

Department of Transportation  
MSC 43 Attn: Office Engineer  
1727 30<sup>th</sup> Street  
Sacramento, CA 95816-7005  
Fax#: 916-227-6282

**SUBJECT:** 11-265304 – Bid Opening; 1/19/2012  
SUBS LISTING

Ladies and Gentlemen:

Please find following the confirmation of the subcontractor list for subject project.

If you have any questions concerning this submittal, please do not hesitate to call.

Respectfully,

GRANITE CONSTRUCTION COMPANY



Mike Boer  
Sr. Estimator  
760-732-0915

TOTAL PAGES: 3 (Three)

Page 1 of 2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**SUBCONTRACTOR LIST**  
 DES-OE-0102.2 (REV 3/2011)

Bidder Name: Granite Construction Company

The bidder must identify each subcontractor performing work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater (Pub Cont Code § 4100 et seq.). Complete columns 1 and 4 and submit with the bid. Complete columns 2 and 3 and submit with the bid or fax to (916) 227-6262 within 24 hours after the bid opening. Failure to provide complete information in columns 1 through 4 within the time specified will result in a nonresponsive bid.

Column 1: Business Name and Location	Column 2: Bid Item Nos.	Column 3: Percentage of Bid Item Subcontracted	Column 4: Description of Subcontracted Work
AC Dike Co Lincoln, CA	28	100%	AC Dike
Harber Companies, Inc. San Bernardino, CA	35 63	94% 9%	Grind Existing Concrete Pavement
Lekos Electric, Inc. El Cajon, CA	57-59, 60	100% 100%	Electrical
Our Valley Fence Company Ridgecrest, CA	14, 40-45 62	100% 100%	Metal Beam Guard Railing
Pavement Recycling Systems Mira Loma, CA	17	37%	Cold Plane Asphalt Concrete Pavement
Payco Specialties, Inc. Chula Vista, CA	13, 15, 48-56 63	100% 100% 7%	Striping ↓
Global Road Sealing, Inc. Garden Grove, CA	34	100%	Seal Joint Existing Concrete Pavement

**ADA Notice** For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 664-6410 or TDD (916) 654-3860 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95834.

Contract No. 11-265304

Page 2 of 2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**SUBCONTRACTOR LIST**  
 DES-OE-6102.2 (REV 3/2011)

Bidder Name: Granite Construction Company

The bidder must identify each subcontractor performing work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater (Pub Cont Code § 4100 et seq.). Complete columns 1 and 4 and submit with the bid. Complete columns 2 and 3 and submit with the bid or fax to (916) 227-6282 within 24 hours after the bid opening. Failure to provide complete information in columns 1 through 4 within the time specified will result in a nonresponsive bid.

Column 1: Business Name and Location	Column 2: Bid Item Nos.	Column 3: Percentage of Bid Item Subcontracted	Column 4: Description of Subcontracted Work
Statewide Traffic Safety & Signs Poway, CA	7 37,38	100% 100%	Construction Area & Roadside Signs
Statewide Traffic Safety & Signs Poway, CA	8	25%	Traffic Control

**ADA Notice** For individuals with sensory disabilities, this document is available in alternate format. For information call (916) 664-6410 or TDD (916) 664-3680 or write Records and Forms Management, 1120 N Street, MS-88, Sacramento, CA 95814.

Contract No. 11-265304

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**SUBCONTRACTOR LIST**  
 DES-OE-0102.2 (REV 3/2011)

Bidder Name: Granite Construction Company

The bidder must identify each subcontractor performing work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater (Pub Cont Code 4100 et seq.). Complete columns 1 and 4 and submit with the bid. Complete columns 2 and 3 and submit with the bid or fax to (916) 227-6282 within 24 hours after the bid opening. Failure to provide complete information in columns 1 through 4 within the time specified will result in a nonresponsive bid.

Column 1: Business Name and Location	Column 2: Bid Item Nos.	Column 3: Percentage of Bid Item Subcontracted	Column 4: Description of Subcontracted Work
AC Dike Company Lincoln, CA			AC Dike
<del>Harber Companies</del> <del>Penhall Company</del> LD San Bernardino, CA <del>San Diego, CA</del> LD			Grind Existing Concrete Pavement
Lekos Electric <del>Select Electric Inc.</del> LD El Cajon, CA <del>Spring Valley, CA</del> LD			Electrical
Our Valley Fence Ridgecrest, CA			Metal Beam Guard Railing
Pavement Recycling Systems Mira Loma, CA			Cold Plane Asphalt Concrete Pavement
Payco Specialties, Inc. Chula Vista, CA			Striping
<del>Penhall Company</del> LD <del>San Diego, CA</del> LD Global Road Sealing Garden Grove, CA			Seal Joint Existing Concrete Pavement

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3680 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

The bidder must identify each subcontractor performing work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater (Pub Cont Code 4100 et seq.). Complete columns 1 and 4 and submit with the bid. Complete columns 2 and 3 and submit with the bid or fax to (916) 227-6282 within 24 hours after the bid opening. Failure to provide complete information in columns 1 through 4 within the time specified will result in a nonresponsive bid.

Column 1: Business Name and Location	Column 2: Bid Item Nos.	Column 3: Percentage of Bid Item Subcontracted	Column 4: Description of Subcontracted Work
Statewide Traffic Safety + Signs Poway, CA			Construction Area + Roadside Signs
Statewide Traffic Safety + Signs Poway, CA			Traffic Control

**ADA Notice** For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 854-6410 or TDD (916) 854-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

We Granite Construction Company  
P.O. Bdx 50085  
Watsonville, CA 95077-5085 as Principal, and  
Federal Insurance Company

as Surety are bound unto the State of California, Department of Transportation, hereafter referred to as "Obligee", in the penal sum of ten percent (10%) of the total amount of the bid of the Principal submitted to the Obligee for the work described below, for the payment of which sum we bind ourselves, jointly and severally,

**THE CONDITION OF THIS OBLIGATION IS SUCH, THAT:**

WHEREAS, the Principal is submitting a bid to the Obligee, for CONSTRUCTION ON STATE HIGHWAY IN SAN DIEGO COUNTY IN SAN DIEGO FROM 0.1 MILE NORTH OF MAIN STREET UNDERCROSSING TO 0.4 MILE SOUTH OF LANDIS STREET PEDESTRIAN OVERCROSSING.  
(Copy here the exact description of work, including location, as it appears on the proposal)  
for which bids are to be opened at Irvine, CA

on 12/15/11 01/05/12 01/19/12  
(Insert date of bid opening)

NOW, THEREFORE, if the Principal is awarded the contract and, within the time and manner required under the specifications, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files two bonds with the Obligee, one to guarantee faithful performance (if specified in the contract) of the contract and the other to guarantee payment for labor and materials as provided by law, then this obligation shall be null and void; otherwise, it shall remain in full force.

In the event a suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the court.

Dated: December 07, 2011

Correspondence or claims relating to this bond should be sent to the surety at the following address:  
Federal Insurance Company  
15 Mountain View Rd  
Warren, NJ 07059

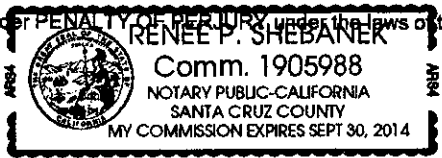
By David A. Donnelly  
David A. Donnelly - Area Manager  
Granite Construction Company  
Principal  
Federal Insurance Company  
Surety  
By Kathleen Schreckengost  
Kathleen Schreckengost, Attorney-in-Fact

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
County of Santa Cruz  
On this 12/07/11 before me, Renee P. Shebanek, Notary Public  
Date Here Insert Name and Title of the Officer  
personally appeared Kathleen Schreckengost, Attorney-in-Fact  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



WITNESS my hand and official seal  
Signature Renee P. Shebanek #6079  
Signature of Notary Public  
Renee P. Shebanek, Notary Public

**ADA Notice** For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 854-8410 or TDD (916) 854-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.



**Chubb  
Surety**

**POWER  
OF  
ATTORNEY**

**Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company**

**Attn: Surety Department  
15 Mountain View Road  
Warren, NJ 07059**

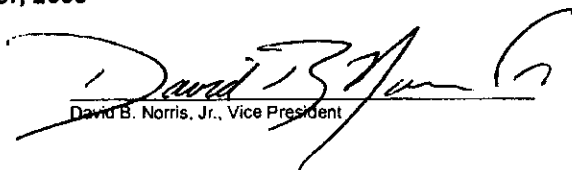
Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint Jigisha Desai, John Gilliland, Cynthia P. Johnson, Kathleen Schreckengost, Ananya Mukherjee and Eve Perez of Watsonville, California-----

each as their true and lawful Attorney- in- Fact to execute under such designation in their nemes and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings end other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business on behalf

in connection with bids, proposals or contracts to or with the United States of America, any State or political subdivision thereof or any person, firm or corporation. And the execution of such bond or obligation by such Attorney- in- Fact in the Company's name and on its behalf as surety thereon or otherwise, under its corporate seal, in pursuance of the authority hereby conferred shall, upon delivery thereof, be valid and binding upon the Company.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this **17<sup>th</sup> day of December, 2009**

  
Kenneth C. Wendel, Assistant Secretary

  
David B. Norris, Jr., Vice President

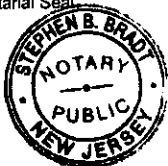
STATE OF NEW JERSEY

ss.

County of Somerset

On this, **17th** day of **December, 2009** before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel, being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By- Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By- Laws and in deponent's presence.

Notarial Seal



**STEPHEN B. BRADT**  
Notary Public, State of New Jersey  
No. 2321097  
Commission Expires Oct. 25, 2014

  
Notary Public

**CERTIFICATION**

Extract from the By- Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys- in- Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed end certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

- (i) the foregoing extract of the By- Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this

12/07/2011



  
Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903- 3493 Fax (908) 903- 3656 e-mail: surety@ chubb.com

**OPT OUT OF PAYMENT ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS**

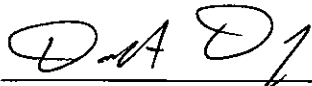
DES-OE-0102.12 (NEW 12/2009)

You may opt out of the payment adjustments for price index fluctuations as specified in "Payment Adjustments for Price Index Fluctuations" of the special provisions. If you elect to opt out of the provisions of this specification, complete this form and submit it with your bid.

**Bidder Name:** Granite Construction Company      **CONTRACT NO.** 11 - 265304

I opt out of the payment adjustments for price index fluctuations.

Date: ~~12/15/11~~ ~~01/05/12~~  
01/19/12

Signature:   
David A. Donnelly  
Area Manager

**ADA Notice** For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 854-8410 or TDD (916) 854-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

**CONTRACT NO. 11 - 265304**

Are you certified as a "Small Business" by the Office of Small Business and DVBE Services of the Department of General Services of the State of California? Check one:

Yes: Certification number? \_\_\_\_\_  No

Note: This small business questionnaire is included for statistical reporting only.

**CERTIFICATIONS**

**FEDERAL-AID PROJECTS DISCLOSURE OF LOBBYING ACTIVITIES CERTIFICATION**

Bidder certifies, to the best of his or her knowledge and belief:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure of Lobbying Activities," in conformance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 USC § 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Bidder also agrees by submitting a bid that it must require the language of this certification be included in subcontracts over \$100,000 and these subcontractors shall certify and disclose.

**INSTRUCTIONS FOR COMPLETION OF SF-LLL,  
DISCLOSURE OF LOBBYING ACTIVITIES**

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence, the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last, previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitments for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.  
(b) Enter the full names of the individual(s) performing services and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).
11. The certifying official shall sign and date the form, print his/her name title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

N/A

DISCLOSURE OF LOBBYING ACTIVITIES

Approved by OMB

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

0348-0046

<b>1. Type of Federal Action:</b> <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	<b>2. Status of Federal Action:</b> <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	<b>3. Report Type:</b> <input type="checkbox"/> a. initial <input type="checkbox"/> b. material change <b>For Material Change Only:</b> year _____ quarter _____ date of last report _____
<b>4. Name and Address of Reporting Entity:</b> <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, <i>if known</i> Congressional District, <i>if known</i> :	<b>5. If Reporting Entity in No. 4 is Subawardee Enter Name and Address of Prime:</b>  Congressional District, <i>if known</i> :	
<b>6. Federal Department/Agency:</b>	<b>7. Federal Program Name/Description:</b>  CFDA Number, if applicahle _____	
<b>8. Federal Action Number, if known:</b>	<b>9. Award Amount, if known:</b> \$	
<b>10 a. Name and Address of Lobby Registrant</b> <i>(if individual, last name, first name, MI):</i>	<b>b. Individuals Performing Services (including address if different from No. 10a)</b> <i>(last name, first name, MI):</i>	
<b>11. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</b>	Signature: _____ N/A _____ Print Name: _____ N/A _____ Title: _____ Telephone No.: _____ Date: _____	
<b>Federal Use Only:</b>	<b>Authorized for Local Reproduction Standard Form - LLL (Rev. 7-97)</b>	

**EQUAL EMPLOYMENT OPPORTUNITY REGULATION CERTIFICATION**

\*Granite Construction Company

Bidder \* \_\_\_\_\_, proposed subcontractor \_\_\_\_\_, certifies that he  has  has not participated in a previous contract or subcontract subject to the equal opportunity clauses, as required by Executive Orders 10925, 11114, or 11246, and that, if required, he has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the filing requirements.

**Notes:**

- The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b) (1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of \$10,000 or under are exempt.)
- Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.
- Prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note 41 CFR 60-1.7(b) (1) prevents the award of contracts and subcontracts unless the Contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

**TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29, DEBARMENT AND SUSPENSION CERTIFICATION**

Bidder, under penalty of perjury, certifies that, except as noted below, it or any other person associated therewith in the capacity of owner, partner, director, officer, manager:

- is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgement rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

No Exceptions

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

### UNDOCUMENTED ALIENS EMPLOYMENT

Under Pub Cont Code § 6101, the Bidder certifies compliance with state and federal law respecting the employment of undocumented aliens.

### NONCOLLUSION

#### NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

Under PCC 7106 and 23 USC 112, the bidder declares as follows:

State of California County of San Diego

David A. Donnelly, being first duly sworn, deposes and says that he or she is Area Manager of Granite Construction Company the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

### CHILD SUPPORT COMPLIANCE ACT

Under Pub Cont Code § 7110, the contractor acknowledges that:

1. The contractor recognizes the importance of child and family support obligations and shall fully comply with all applicable state and federal laws relating to child and family support enforcement, including, but not limited to, disclosure of information and compliance with earnings assignment orders, as provided in Chapter 8 (commencing with section 5200) of Part 5 of Division 9 of the Family Code; and
2. The contractor to the best of its knowledge is fully complying with the earnings assignment orders of all employees and is providing the names of all new employees to the New Hire Registry maintained by the Employment Development Department.

### VIOLATION OF LAW OR A SAFETY REGULATION

Under Pub Cont Code § 10162, the Bidder must complete, under penalty of perjury, the following questionnaire:

Has the Bidder, any officer of the Bidder, or any employee of the Bidder who has a proprietary interest in the Bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes

No

If the answer is yes, explain the circumstances in the following space.

### NATIONAL LABOR RELATIONS BOARD

Under Pub Cont Code § 10232, the contractor, swears under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the contractor within the immediately preceding two year period because of the contractor's failure to comply with an order of a federal court which orders the contractor to comply with an order of the National Labor Relations Board.

### ANTITRUST LAW

Under Pub Con Code § 10285.1, the Bidder declares under penalty of perjury under the laws of the State of California that the Bidder  has  has not been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Pub Cont Code § 1101, with any public entity, as defined in Pub Cont Code § 1100, including the Regents of the University of California or the Trustees of the California State University. The term "Bidder" includes any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

If the Bidder has been convicted of an offense within the past 3 years, provide the conviction details including the date and ultimate resolution of each conviction in the space below.

### BIDDER RESPONSIBILITY QUESTIONNAIRE

Failure to truthfully answer the following questions will result in a finding that the bid is nonresponsive. The Bidder must complete, under penalty of perjury, the following questionnaire:

1. Within the past 10 years, has the Bidder been found to be a nonresponsive bidder by any public entity, including federal, State, local, or regional entities?  
 Yes  No
2. Within the past 10 years, have any of the Bidder's officers or employees with a proprietary interest in the Bidder been determined to be a nonresponsive bidder by a public entity, including federal, State, local or regional entities?  
 Yes  No
3. Is there any officer or employee of the Bidder who now has or has had any proprietary interest in another company that bid or bids on public works projects whose company has been determined to be a nonresponsive bidder by any public entity, including federal, State, local, or regional entities?  
 Yes  No
4. If the answer to any of the 3 preceding questions is yes, disclose all pertinent details of the determination of nonresponsibility, including:
  - 4.1. Date of each nonresponsibility determination
  - 4.2. Name of each public agency issuing the nonresponsibility determination and a contact person at that agency who would have information about the determination
  - 4.3. Contract number for each nonresponsibility determination

END CERTIFICATIONS



State Of California  
**CONTRACTORS STATE LICENSE BOARD**  
ACTIVE LICENSE



License Number **89**

Entity **CORP**

Business Name **GRANITE CONSTRUCTION COMPANY**

Classification(s) **C36 C10 A B C57 C-2 C-8 C12  
C21 C27 C29 C35 C42 C45 C39  
C50 C51 C31**

Expiration Date **05/31/2013**

[www.cslb.ca.gov](http://www.cslb.ca.gov)



**GRANITE CONSTRUCTION COMPANY**

**CERTIFICATE OF SECRETARY**

---

**RESOLVED**, that, effective January 1, 2012 through December 31, 2012, the individuals named on the attached Exhibit 1 are authorized to negotiate, execute and attest electronic and paper documents necessary for the conduct of the Company's affairs with respect to the submission and execution of construction project bids, bid proposals, bid addenda and all other bid-related documents prepared and submitted on behalf of the Company not to exceed \$25 million, relating to any and all domestic construction projects arising out of the Company's operations.

I, Terry K. Eller, do hereby certify that I am duly qualified as Secretary of GRANITE CONSTRUCTION COMPANY, a California corporation (the "Company"); that the foregoing is a true and correct copy of a resolution duly adopted effective January 1, 2012 by unanimous written consent of the Executive Committee of the Board of Directors, held without a meeting in accordance with the provisions of Article III, Sections 9 and 15 of the Bylaws of the Company; that the Directors acting were duly and regularly elected; and that the resolution adopted has not been modified or repealed and is still in full force and effect.

Dated: January 3, 2012

  
\_\_\_\_\_  
Terry K. Eller

**EXHIBIT 1**

**AUTHORIZED SIGNERS**  
**Granite Construction Company**  
**Southern California Region**  
**Indio/San Diego Areas**

**DESIGNATED SIGNERS**

Patrick C. Kelly, Area Manager  
David A. Donnelly, Area Manager  
G. Jerry Lusich, Regional Chief Estimator  
Brad J. Williams, Large Project Executive  
Gary Spinetti, Regional Manager of Construction  
Jeff J. Mercer, Construction Manager  
Mark A. Chalfa, San Diego Construction Manager  
Joseph P. Richardson, Construction Manager

**ATTESTORS**

Patrick C. Kelly, Area Manager  
David A. Donnelly, Area Manager  
G. Jerry Lusich, Regional Chief Estimator  
Brad J. Williams, Large Project Executive  
Gary Spinetti, Regional Manager of Construction  
Jeff J. Mercer, Construction Manager  
Mark A. Chalfa, San Diego Construction Manager  
Joseph P. Richardson, Construction Manager  
Tamara Speer, Estimating Assistant  
Carolyn Maness, Estimating Assistant

**DEPARTMENT OF TRANSPORTATION**  
DIVISION OF ENGINEERING SERVICES  
OFFICE ENGINEER  
1727 30<sup>th</sup> Street MS-43  
P.O. BOX 168041  
SACRAMENTO, CA 95816-8041  
FAX (916) 227-6214  
TTY 711



*Flex your power!  
Be energy efficient!*

January 4, 2012

11-SD-15-0.5/M4.0  
11-265304  
Project ID 1100020284  
NH-015(017)E

Addendum No. 4

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN DIEGO COUNTY IN SAN DIEGO FROM 0.1 MILE NORTH OF MAIN STREET UNDERCROSSING TO 0.4 MILE SOUTH OF LANDIS STREET PEDESTRIAN 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 Thursday, January 19, 2012, instead of Thursday, January 5, 2012.

This addendum is being issued to set a new bid opening date as shown herein and revise the Notice to Bidders and Special Provisions, and the Bid book.

In the Bid book, in the "Bid Item List," Item 45 is revised and the "Cost Per Day" is included as attached.

To Bid book holders:

Replace pages 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.

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.

Addendum No. 4  
Page 2  
January 4, 2012

11-SD-15-0.5/M4.0  
11-265304  
Project ID 1100020284  
NH-015(017)E

This addendum and attachment is available for the Contractors' download on the Web site:

---

[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/11/11-265304](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/11/11-265304)

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,



LAURIE BERMAN  
District Director

Attachments

**DEPARTMENT OF TRANSPORTATION**  
DIVISION OF ENGINEERING SERVICES  
OFFICE ENGINEER  
1727 30<sup>th</sup> Street MS-43  
P.O. BOX 168041  
SACRAMENTO, CA 95816-8041  
FAX (916) 227-6214  
TTY 711



*Flex your power!  
Be energy efficient!*

December 1, 2011

11-SD-15-0.5/M4.0  
11-265304  
Project ID 1100020284  
NH-015(017)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN DIEGO COUNTY IN SAN DIEGO FROM 0.1 MILE NORTH OF MAIN STREET UNDERCROSSING TO 0.4 MILE SOUTH OF LANDIS STREET PEDESTRIAN 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 Thursday, December 15, 2011.

This addendum is being issued to revise the Notice to Bidders and Special Provisions and the Federal Minimum Wages with Modification Number 28 dated 11/18/11.

In the Special Provisions, Section 10-1.33, "JOINTED PLAIN CONCRETE PAVEMENT (RAMP TERMINI WITH RAPID STRENGTH CONCRETE)," is revised 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.

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.

Addendum No. 1  
Page 2  
November 30, 2011

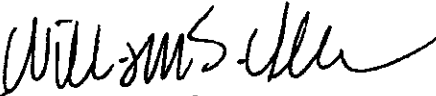
11-SD-15-0.5/M4.0  
11-265304  
Project ID 1100020284  
NH-015(017)E

This addendum, 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/11/11-265304](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/11/11-265304)

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,

  
LAURIE BERMAN  
District Director  
Attachments

## **10-1.33 JOINTED PLAIN CONCRETE PAVEMENT (RAMP TERMINI WITH RAPID STRENGTH CONCRETE)**

### **GENERAL**

#### **Summary**

This work includes constructing jointed plain concrete pavement (JPCP) with rapid strength concrete (RSC). Comply with Section 40, "Concrete Pavement," of the Standard Specifications.

#### **Definitions**

**early age:** Time less than 10 times the concrete's final set time.

**final set time:** Time a specific penetration resistance of 4,000 psi is achieved, determined under ASTM C 403.

**opening age:** Time the concrete achieves the specified strength for opening to traffic.

**transverse crack:** A crack running from one longitudinal edge of the panel to the other.

#### **Submittals**

Submit AASHTO T 336 coefficient of thermal expansion test results to the Engineer and at the website <http://169.237.179.13/cte/>.

#### **Quality Control and Assurance**

##### **Prepaving Conference**

Meet with the Engineer at a prepaving conference at a mutually agreed time and place. Discuss methods of performing the production and paving work.

Prepaving conference attendees must sign an attendance sheet provided by the Engineer. The prepaving conference must be attended by your:

1. Project superintendent
2. Quality control manager
3. Paving construction foreman
4. Subcontractor's workers including:
  - 4.1. Foremen
  - 4.2. Concrete plant manager
  - 4.3. Concrete plant operator
  - 4.4. Personnel performing saw cutting and joint sealing

Do not start paving activities until the listed personnel have attended a prepaving conference.

##### **Mix Design**

At least 10 days before use in a test strip, submit a mix design for RSC that includes:

1. Opening age
2. Proposed aggregate gradation
3. Proportions of hydraulic cement and aggregate
4. Types and amounts of chemical admixtures
5. Maximum time allowed between batching and placing
6. Range of ambient temperatures over which the mix design is effective
7. Final set time
8. Any special instructions or conditions such as water temperature requirements

Submit more than 1 mix design to plan for ambient temperature variations anticipated during RSC placement. Each mix design must have a maximum ambient temperature range of 18 °F.

Submit modulus of rupture development data for each mix design. You may use modulus of rupture development data from laboratory-prepared samples. The testing ages for modulus of rupture development data must include 1 hour before opening age, opening age, one hour after opening age, 24 hours, 7 days, and 28 days.

During concrete mix design, perform coefficient of thermal expansion testing under AASHTO T 336 from trial mixture samples. Provide a split test sample to METS. If changing an aggregate supply source or the mix properties or proportions, perform coefficient of thermal expansion testing for the new concrete mix.

#### **Calibration Testing Certificates of Compliance**

Submit a Certificate of Compliance under Section 6-1.07, "Certificates of Compliance," of the Standard Specifications with each delivery of aggregate, cement, and admixtures to be used for calibration tests. Submit certified copies of the weight of each delivery. The Certificate of Compliance must state the source of materials used for the calibration tests is from the same source to be used in the work. The Certificate of Compliance must be signed by your authorized representative.

#### **Cement and Admixtures**

At least 45 days before intended use, submit a sample of cement from each proposed lot and samples of proposed admixtures in the quantities ordered by the Engineer.

During RSC pavement operations, submit uniformity reports for hydraulic cement at least once every 30 days to the Transportation Laboratory, Attention: Cement Laboratory. Uniformity reports must comply with ASTM C 917, except testing age and water content may be modified to suit the particular material.

#### **Quality Control Program**

##### **General**

Establish a quality control program. The quality control program assures the Engineer that methods and procedures are in place to produce and place RSC in compliance with the specifications.

If the quality control program is not implemented and followed, the Engineer orders RSC work stopped.

##### **Quality Control Managers**

For the project, designate a lead QCM and assistant QCMs.

The lead QCM administers the quality control plan (QCP). The lead QCM must hold current American Concrete Institute (ACI) certification as "Concrete Field Testing Technician-Grade I" and "Concrete Laboratory Testing Technician-Grade II." Assistant QCMs must hold current ACI certification as "Concrete Field Testing Technician-Grade I" and either "Concrete Laboratory Testing Technician-Grade I" or "Concrete Laboratory Testing Technician-Grade II."

The QCM responsible for the production period involved must review and sign the sampling, inspection, and test reports before submittal to the Engineer. At least 1 QCM must be present for:

- I. Each stage of mix design
2. Trial slab construction
3. Production and construction of RSC
4. Meetings with the Engineer relating to production, placement, or testing.

A QCM must not be a member of this project's production or paving crews, an inspector, or a tester. A QCM must have no duties during the production and placement of RSC except those specified.

##### **Quality Control Plan**

The QCP describes the procedures you will use to control the production process including:

1. Determining if changes to the production process are needed
2. Procedures for proposing changes
3. Procedures for implementing changes

Do not start RSC work until the QCP has been accepted by the Engineer. The Engineer accepts the QCP based the inclusion and adequacy of:

1. The names and qualifications of the lead Quality Control Manager (QCM) and assistant QCMs.
2. An outline procedure for the placement and testing of trial slab test strips
3. An outline procedure for the production, transportation, and placement of RSC
4. An outline procedure for sampling and testing to be performed during and after RSC construction
5. A contingency plan for correcting problems in production, transportation, or placement. Include the quantity and location of standby material in your contingency plan.
6. Provisions for determining if RSC placement must be suspended and temporary roadway pavement structure constructed
7. Forms to report inspection, sampling, and testing
8. The location of your quality control testing laboratory and testing equipment during and after paving operations
9. A list of the testing equipment to be used including date of last calibration
10. The names and certifications of quality control personnel including those performing sampling and testing

At the time of QCP submission, the Department qualifies the quality control samplers and testers through the Independent Assurance Program (IAP) for the sampling and testing they perform.

#### **Quality Control Inspection, Sampling, and Testing**

Perform quality control sampling, testing, and inspection throughout RSC production and placement. Before any sampling and testing, give the Engineer at least 2 business days notice. Give the Engineer unrestricted access to your quality control inspectors, samplers, testers, and laboratories. Submit testing results within 15 minutes of testing completion. Record inspection, sampling, and testing on the forms accepted with the QCP and submit them within 48 hours of completion of each paving shift and within 24 hours of 7-day modulus of rupture tests.

Provide a testing laboratory to perform quality control tests. Maintain sampling and testing equipment in proper working condition. Perform sampling under California Test 125.

Testing laboratories and testing equipment must comply with the Department's Independent Assurance Program.

#### **Trial Slabs**

Before starting work on RSC, complete one trial slab for each rapid strength concrete mix design. Trial slabs demonstrate that you are capable of producing replacement concrete pavement in compliance with the specifications within the specified time periods including delivery, placement, finishing, and curing times, and under similar atmospheric and temperature conditions expected during replacement operations.

The trial slab must be at least 10' x 20'. The trial slab thickness must be at least 10 inches. Place trial slabs near the job site at a mutually-agreed location that is neither on the roadway nor within the project limits.

During trial slab construction, sample and split the aggregate for gradings, cleanness value, and sand equivalent testing.

Trial slab must comply with the QCP for RSC production and placement. The QCP must detail your intended:

1. Locations and times
2. Production procedures
3. Placement and finishing methods
4. Sampling methods, sample curing, and sample transportation
5. Testing and test result reporting

Within 20 minutes after rapid strength concrete delivery for trial slabs, fabricate test beams under California Test 524. Use beams to determine early age and 7-day modulus of rupture values.

Cure beams fabricated for early age testing so that the monitored temperatures in the beams and the trial slab are always within 5 °F. Monitor and record the internal temperatures of trial slab and early age beams at intervals of at least 5 minutes. Install thermocouples or thermistors connected to strip-chart recorders or digital data loggers to monitor the temperatures. Temperature recording devices must be accurate to within ±2 °F. Measure internal temperatures at 1 inch from the top, 1 inch from the bottom, and no closer than 3 inches from any edge until early age testing is completed.

Cure beams fabricated for 7-day testing under California Test 524 except place them into sand at a time that is from 5 to 10 times the final set time, or 24 hours, whichever is earlier.

Trial slab must have an early age modulus of rupture of not less than 400 psi and a 7-day modulus of rupture of not less than 600 psi.

Dispose of trial slab and test specimens for test strip under Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

#### **Production Process Control and Quality Control Testing**

Contingency plan equipment and personnel must be present at the job site.

Provide continuous process control and quality control sampling and testing throughout RSC production and placement.

During production of RSC, sample and test aggregates at least once for every 650 cubic yards of RSC produced, but not less than once per placement shift. Test aggregates for compliance with gradations, cleanness value, and sand equivalent specifications.

At least once for every 650 cubic yards of RSC produced, but not less than twice per placement shift, sample and test for:

1. Yield
2. Penetration
3. Air content
4. Unit weight

During placement of RSC, fabricate beams and test for modulus of rupture within the first 30 cubic yards, at least once every 130 cubic yards, and within the final truckload.

If the Engineer requests, submit split samples and fabricate test beams for the Engineer's testing.

For determining early age modulus of rupture, cure beams under the same conditions as the pavement until 1 hour before testing. Cure beams fabricated for the 7-day test under California Test 524. The Engineer uses modulus of rupture test results for accepting or rejecting the replacement pavement and pay factor adjustment for low modulus of rupture.

Dispose of materials resulting from the construction of the test beams, temporary roadway pavement structure, and rejected replacement pavement under Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

#### **Weighmaster Certificates**

Weighmaster certificates for RSC, regardless of the proportioning method used, must include the information necessary to trace the manufacturer and the manufacturer's lot number for the cement being used. If proportioned into fabric containers, the weighmaster certificates for the cement must contain date of proportioning, location of proportioning, and actual net draft cement weight. If proportioned at the pour site from a storage silo, the weighmaster certificates must contain date of proportioning, location of proportioning, and the net draft cement weight used in the load.

#### **Engineer's Acceptance for Modulus of Rupture**

RSC pavement must develop a minimum modulus of rupture of 400 psi before opening to traffic. RSC pavement must develop a minimum modulus of rupture of 600 psi 7 days after placement. The Engineer may accept RSC pavement that does not attain the specified moduli of rupture as specified in "Pay Factor Adjustment for Low Modulus of Rupture." The Engineer determines the modulus of rupture by testing 3 beam specimens under California Test 524 and averaging the results. You may fabricate beam specimens using an internal vibrator under ASTM C 31. No single test represents more than that day's production or 130 cubic yards, whichever is less.

Beam specimens for early age must be cured so the temperature in the specimens is within 5 °F of the temperature in the pavement. You must determine the modulus of rupture at other ages using beams cured and tested under California Test 524 except place them in sand from 5 to 10 times the final set time or 24 hours, whichever is earlier. You must perform the testing to determine modulus of rupture values of the RSC pavement in the presence of the Engineer.

### Pay Factor Adjustment for Low Modulus of Rupture

The Engineer adjusts payment for RSC for modulus of rupture as follows:

1. Payment for RSC with a modulus of rupture of 400 psi or greater before opening to traffic and 7-day modulus of rupture of 600 psi or greater is not adjusted.
2. Payment for RSC with a 7-day modulus of rupture less than 500 psi is not adjusted and no payment is made. Remove this RSC and replace it at your expense with RSC that complies with the specifications.
3. Payment for RSC with a modulus of rupture less than 350 psi before opening to traffic is not adjusted and no payment is made. Remove this RSC and replace it at your expense with RSC that complies with the specifications.
4. Payment for RSC with a modulus of rupture of 350 psi or greater before opening to traffic and a 7-day modulus of rupture greater than or equal to 500 psi is reduced by the percentage in the pay table for the quantity represented by the tests.

**Percentage Pay Table**

Modulus of Rupture (psi) at opening to traffic	7-Day Modulus of Rupture (psi)		
	Greater than or equal to 600	Less than 600 and greater than or equal to 550	Less than 550 and greater than or equal to 500
Greater than or equal to 400	100%	95%	90%
Less than 400 and greater than or equal to 350	95%	95%	90%
Less than 350	0%	0%	0%

The Engineer rejects any RSC area that develops 1 or more transverse full depth random cracks within 64 days after placement. Remove this RSC at your expense and replace it with RSC that complies with the specifications.

### MATERIALS

#### Temporary Roadway Pavement Structure

##### Aggregate Base

Aggregate base for temporary roadway pavement structure must be produced from any combination of broken stone, crushed gravel, natural rough-surfaced gravel, reclaimed concrete and sand. Grading of aggregate base must comply with the 3/4-inch maximum grading specified in Section 26-1.02A, "Class 2 Aggregate Base," of the Standard Specifications.

##### Hot Mix Asphalt

For hot mix asphalt:

1. Choose the 3/8-inch or 1/2-inch HMA Type A or Type B aggregate gradation under Section 39-1.02E, "Aggregate," of the Standard Specifications.
2. Minimum asphalt binder content must be 6.8 percent for 3/8-inch aggregate gradation and 6.0 percent for 1/2-inch aggregate gradation.
3. Choose asphalt binder Grade PG 64-10, PG 64-16, or PG 70-10 under Section 92, "Asphalts," of the Standard Specifications.

##### Rapid Strength Concrete

RSC that fails to meet opening strength but has a modulus of rupture of at least 200 psi may serve as temporary roadway and must be replaced prior to acceptance of the contract.

### Bond Breaker

Bond breaker must be one of the following:

1. White curing paper under ASTM C 171
2. White opaque polyethylene film under ASTM C 171, except that the minimum thickness must be 6 mils
3. Paving asphalt, Grade PG 64-10, under Section 92, "Asphalts," of the Standard Specifications
4. Curing compound (5) under Section 90-7.01b, "Curing Compound Method," of the Standard Specifications

### Rapid Strength Concrete

RSC must be one of the following:

1. Concrete complying with section 90 "Portland Cement Concrete", except you may use Type III portland cement.
2. Concrete complying with section 90 "Portland Cement Concrete", except:
  - 2.1. You may use any cement that complies with the definition of hydraulic cement or blended hydraulic cement in ASTM C 219 and the requirements shown in the following table:

**Hydraulic Cement<sup>c</sup>**

Test Description	Test Method	Requirement <sup>b</sup>
Contraction in air	California Test 527, W/C Ratio = 0.39 ± 0.010	0.053 %, max.
Mortar expansion in water	ASTM C 1038	0.04 %, max.
Soluble chloride <sup>a</sup>	California Test 422	0.05 %, max.
Soluble sulfates <sup>a</sup>	California Test 417	0.30 %, max.
Thermal stability	California Test 553	90 %, min.
Compressive strength @ 3 days	ASTM C 109	2,500 psi

Note:

<sup>a</sup> Perform test on a cube specimen fabricated under ASTM C 109. Cure the specimen at least 14 days and then pulverized to 100 percent passing the No. 50 sieve.

<sup>b</sup> If you use chemical admixtures, include them when testing.

<sup>c</sup> The requirements of this table does not apply to portland cement.

- 2.2. You may use citric acid or borax if you submit a written request from the cement manufacturer and a test sample.

Section 40-2.01C does not apply.

Supplementary cementitious material is not required in RSC.

Choose the combined aggregate grading for RSC from either the 1-1/2 inch maximum or the 1-inch maximum combined grading under Section 90-3.04, "Combined Aggregate Gradings," of the Standard Specifications.

Aggregate for RSC must be either:

1. Innocuous in conformance with the provisions in Section 90-2.02, "Aggregates."
2. When tested under ASTM C 1567 using the proposed aggregate and cementitious materials, the expansion is less than 0.10 percent. Submit test data with each mix design. Test data authorized by the Department no more than 3 years before the 1st day of the Contract is authorized for the entire Contract. The test data must be for the same concrete mix and must use the same materials and material sources to be used on the Contract.

You may use Type C accelerating and Type E accelerating and water reducing chemical admixtures as specified in Section 90-4, "Admixtures," of the Standard Specifications. The requirement for air entrainment of concrete in freeze-thaw areas only applies when portland cement is used.

During concrete mix design, perform coefficient of thermal expansion testing under AASHTO T 336 from trial mixture samples. If changing an aggregate supply source or the mix properties or proportions, perform coefficient of thermal expansion testing for the new concrete mix. This test will not be used for acceptance.

### **Liquid Joint Sealant**

Liquid joint sealant for transverse contraction joint must be silicone.

### **Tack Coat**

Tack coat must comply with Section 39, "Hot Mix Asphalt," of the Standard Specifications.

## **CONSTRUCTION**

### **Tie Bar Spacing On Curves**

If the curvature of a concrete pavement slab prevents equal spacing of tie bars to maintain the minimum clearance from transverse joints, space them from 15 to 18 inches.

### **Transverse Contraction Joints**

Transverse contraction joints must be Type A1 or B. If widening existing concrete pavement, do not construct transverse contraction joints to match the existing pavement's joint spacing or skew unless specified. Transverse joints in concrete pavement on a curve must be on a single straight line through the curve's radius point.

### **Transition Joints With Hot Mix Asphalt**

If a joint between concrete pavement and hot mix asphalt is specified, apply tack coat between the concrete pavement and hot mix asphalt.

### **Temporary Roadway Pavement Structure**

Place hot mix asphalt and aggregate base where existing pavement is replaced for construction of a temporary roadway pavement structure. The quantity must be equal to the quantity of pavement removed during the work shift. If you place temporary roadway pavement structure, it must be maintained and later removed as the first order of work when JPCP (RSC) activities resume. The temporary roadway pavement structure must consist of 3-1/2 inch thick hot mix asphalt over aggregate base. RSC not conforming to the specifications may be used for temporary roadway pavement structure with the Engineer's approval.

Spread and compact aggregate base and hot mix asphalt by methods that produce a well-compacted, uniform base, with a surface of uniform smoothness, texture and density. Surfaces must be free from pockets of coarse or fine material. You may spread aggregate base and hot mix asphalt each in one layer. The finished surface of hot mix asphalt must not vary more than 0.05 foot from the lower edge of a 12-foot long straightedge placed parallel with the centerline and must match the elevation of existing concrete pavement along the joints between the existing pavement and temporary surfacing.

After removing temporary roadway pavement structure, you may stockpile removed aggregate base at the project site and reuse it for temporary roadway pavement structures. When no longer required, dispose of standby material or stockpiled material for temporary roadway pavement structures under Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

### **Rapid Strength Concrete**

#### **General**

Concrete pavement penetration specified in Section 90-6.06, "Amount of Water and Penetration," of the Standard Specifications does not apply to RSC.

RSC must develop the specified opening age and 7-day modulus of rupture strengths.

### Proportioning

Weighing, measuring, and metering devices used for proportioning materials must comply with Section 9-1.01, "Measurement of Quantities," of the Standard Specifications.

For batches with a volume of 1 cubic yard or more, proportioning must comply with one of the following methods:

1. Batch the ingredients at a central batch plant and charge them into a mixer truck for transportation to the pour site. Proportion ingredients under Section 90-5, "Proportioning," of the Standard Specifications.
2. Batch the ingredients except the cement at a central batch plant and charge them into a mixer truck for transportation to a cement silo and weigh system, which must proportion cement for charging into the mixer truck.
3. Batch ingredients except the cement at a central batch plant and charge them into a mixer truck for transportation to a location where pre-weighed containerized cement is added to the mixer truck. The cement pre-weighing operation must utilize a platform scale. The platform scale must have a maximum capacity of 2.75 tons with a maximum graduation size of 1 pound. Pre-weigh cement into a fabric container. The minimum amount of cement to be proportioned into any single container must be 1/2 of the total amount required for the load of RSC being produced.

For central batch plants, indicators for weighing and measuring systems such as over and under dials must be grouped so that each indicator's smallest increment can be accurately read from the control point of the proportioning operation. In addition, indicators for weighing and measuring cement batched from a remote weighing system must be placed so that each indicator can be accurately read from the control point of the proportioning operation.

Weighing equipment must be insulated from other equipment's vibration or movement. When the plant is operating, each draft's material weight must not vary from the designated weight by more than the specified tolerances. Each scale graduation must be 0.001 of the usable scale capacity.

Aggregate must be weighed cumulatively. Equipment for weighing aggregate must have a zero tolerance of  $\pm 0.5$  percent of the aggregate's designated total batch weight. Equipment for the separate weighing of the cement must have a zero tolerance of  $\pm 0.5$  percent of the cement's designated individual batch draft. Equipment for measuring water must have a zero tolerance of  $\pm 0.5$  percent of the water's designated weight or volume.

The weight indicated for any individual batch of material must not vary from the preselected scale setting by more than:

**Batch Weight Tolerances**

Material	Tolerance
Aggregate	$\pm 1.0$ percent of designated batch weight
Cement	$\pm 0.5$ percent of designated batch weight
Water	$\pm 1.5$ percent of designated batch weight or volume

Proportioning consists of dividing the aggregate into the specified sizes and storing them in separate bins, and then combining the aggregate with cement and water. Proportion dry ingredients by weight. Proportion liquid ingredients by weight or volume.

Handle and store aggregates under Section 90-5.01, "Storage of Aggregates," of the Standard Specifications. Proportion liquid admixtures under Section 90-4.10, "Proportioning and Dispensing Liquid Admixtures," of the Standard Specifications.

Control aggregate discharged from several bins with gates or mechanical conveyors. The means of discharge from the bins and from the weigh hopper must be interlocked so that no more than 1 bin can discharge at a time, and the weigh hopper cannot be discharged until the required quantity from each of the bins has been deposited in the weigh hopper.

At the time of batching, dry and drain aggregates to a stable moisture content. Do not proportion aggregates with visible separation of water from the aggregate during proportioning. At the time of batching, the free moisture content of fine aggregate must not exceed 8 percent of its saturated, surface-dry weight.

If the proportioning plant has separate supplies of the same size group of aggregate with different moisture content, specific gravity, or surface characteristics affecting workability, exhaust 1 supply before using another supply.

Keep cement separated from the aggregate until discharged into the mixer. When discharged into the mixer, cement must be free of lumps and clods. Before reuse, clean fabric containers used for transportation or proportioning of cement.

Weigh systems for proportioning aggregate and cement must be individual and distinct from other weigh systems. Each weigh system must have a hopper, a lever system, and an indicator.

When ordered by the Engineer, determine the gross weight and tare weight of truck mixers on scales designated by the Engineer.

Install and maintain in operating condition an electrically actuated moisture meter. The meter must indicate on a readily visible scale the changes in the fine aggregate moisture content as it is batched. The meter must have a sensitivity of 0.5 percent by weight of the fine aggregate.

Obtain the Engineer's acceptance before mixing water into the concrete during hauling or after arrival at the delivery point. If the Engineer accepts additional water be incorporated into the concrete, the drum must revolve not less than 30 revolutions at mixing speed after the water is added and before starting discharge. Measure water added to the truck mixer at the job site through a meter in compliance with Section 9-1.01, "Measurement of Quantities," of the Standard Specifications.

#### **Bond Breaker**

Place bond breaker between JPCP (RSC) and HMA (Type A) layer.

If you use curing paper or polyethylene film, place it in a wrinkle free manner. Overlap adjacent sheets a minimum of 6 inches in the same direction as the concrete pour.

If you use curing compound or paving asphalt, before application remove foreign and loose materials remaining from slab removal.

If you use paving asphalt, do not add water before applying asphalt to the base surface. Apply the paving asphalt in one even application at a rate from 0.02 to 0.10 gallon per square yard over the entire base surface area. Do not place concrete pavement until the paving asphalt has cured.

If you use curing compound, apply it in 2 separate applications. Apply each application evenly at a rate from 0.07 to 0.11 gallon per square yard over the entire base surface area.

#### **Spreading, Compacting, and Shaping**

You may use metal or wood side forms. Wood side forms must not be less than 1-1/2 inches thick. Side forms must be of sufficient rigidity, both in the form and in the connection with adjoining forms, that movement will not occur under forces from subgrading and paving equipment or from the pressure of concrete.

Side forms must remain in place until the pavement edge no longer requires the protection of forms. Clean and oil side forms before each use.

After you deposit the RSC on the subgrade, consolidate RSC with high-frequency internal vibrators. Consolidate adjacent to forms and across the full paving width. Place RSC as nearly as possible to its final position. Do not use vibrators for extensive shifting of RSC.

Spread and shape RSC with powered finishing machines supplemented by hand finishing.

After you mix and place RSC, do not add water to the surface to facilitate finishing. Use surface finishing additives as recommended by the manufacturer of the cement after their use is approved by the Engineer.

#### **Joints**

Before placing RSC against existing concrete, place 1/4-inch thick commercial quality polyethylene flexible foam expansion joint filler across the original transverse and longitudinal joint faces and extend the excavation's full depth. Place the top of the joint filler flush with the top of the pavement. Secure joint filler to the joint face of the existing pavement to prevent the joint filler from moving during the placement of RSC.

#### **Final Finishing**

If the Engineer determines by visual inspection the final texturing may not comply with the specifications for coefficient of friction, the Engineer tests to determine coefficient of friction. Open the pavement to traffic and allow 5 days after concrete placement for the Department to test for coefficient of friction. If pavement does not comply with the specifications for coefficient of friction, grind the pavement under Section 42-2, "Grinding," of the Standard Specifications. Perform grinding before sealing joints.

On ramp termini, use heavy brooming normal to the ramp centerline to produce a coefficient of friction of at least 0.35 determined on the hardened surface under California Test 342.

### **Curing Method**

Use the curing method recommended by the manufacturer of the cement for JPCP (RSC).

### **Concrete Pavement Removal**

When removing and replacing concrete, remove it to full depth and width.

### **Removal and Replacement of Slabs Without Bar Reinforcement**

For full depth and partial length slab removal, saw cut the full depth and width.

Saw cut full slabs at the longitudinal and transverse joints. Saw cut partial slabs at joints and where the Engineer orders. You may make additional saw cuts within the removal area to facilitate slab removal or to prevent binding of the saw cut at the removal area's edge. Saw cut perpendicular to the slab surface.

Use slab lifting equipment with lifting devices that attach to the slab. After lifting the slab, paint the cut ends of dowels and tie bars.

Construct transverse and longitudinal construction joints between the new slab and existing concrete using dowel bars. For longitudinal joints, offset dowel bar holes from original tie bars by 3 inches. For transverse joints, offset dowel bar holes from the original dowel bars by 3 inches.

Drill holes and use chemical adhesive to bond the dowel bars to the existing concrete. Use an automated dowel bar drilling machine. Holes must be at least 1/8-inch greater than the dowel bar diameter. Clean the holes in compliance with the chemical adhesive manufacturer's instructions. Holes must be dry when you place chemical adhesive.

Immediately after inserting dowel bars into the chemical adhesive-filled holes, support the dowel bars and leave them undisturbed for the minimum cure time recommended by the chemical adhesive manufacturer.

Clean the faces of joints and underlying base from loose material and contaminants. Coat the faces with a double application of pigmented curing compound under Section 28-1.07, "Curing," of the Standard Specifications. For partial slab replacements, place preformed sponge rubber expansion joint filler at new transverse joints in compliance with ASTM D 1752.

### **MEASUREMENT AND PAYMENT**

The contract price paid per cubic yard for jointed plain concrete pavement (ramp termini with rapid strength concrete) as designated in the Verified Bid Item List includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the concrete pavement, complete in place including bond breaker, bar reinforcement, tie bars, dowel bars, anchors, and fasteners, as shown on the plans and as specified in these specifications and the special provisions, and as directed by the Engineer.

The Engineer adjusts payment for jointed plain concrete pavement (ramp termini with rapid strength concrete) in compliance with "Pay Factor Adjustment for Low Modulus of Rupture."

Repair, or removal and replacement of damaged pavement and base is at your expense and will not be measured or paid for.

Full compensation for providing a facility for and attending the prepaving conference is included in the contract price paid per cubic yard for jointed plain concrete pavement (ramp termini with rapid strength concrete) and no additional compensation is allowed therefor.

Full compensation for applying tack coat at transverse transition joints and end anchors is included in the contract price paid per cubic yard for jointed plain concrete pavement (ramp termini with rapid strength concrete) and no separate payment is made therefor.

If the curvature of a slab affects tie bar spacing and additional tie bars are required, they are included in the contract price paid per cubic yard for jointed plain concrete pavement (ramp termini with rapid strength concrete) and no additional compensation is allowed therefor.

DEPARTMENT OF TRANSPORTATION  
DIVISION OF ENGINEERING SERVICES  
OFFICE ENGINEER  
1727 30<sup>th</sup> Street MS-43  
P.O. BOX 168041  
SACRAMENTO, CA 95816-8041  
FAX (916) 227-6214  
TTY 711



*Flex your power!  
Be energy efficient!*

December 12, 2011

11-SD-15-0.5/M4.0

11-265304

Project ID 1100020284  
NH-015(017)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN DIEGO COUNTY IN SAN DIEGO FROM 0.1 MILE NORTH OF MAIN STREET UNDERCROSSING TO 0.4 MILE SOUTH OF LANDIS STREET PEDESTRIAN 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 January 5, 2012, instead of the original date of Thursday, December 15, 2011.

This addendum is being issued to change the bid opening date as shown herein.

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.

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 is available for the Contractors' download on the Web site:

[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/11/11-265304](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/11/11-265304)

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,

A handwritten signature in black ink, appearing to read "Laurie Berman".

LAURIE BERMAN  
District Director

**DEPARTMENT OF TRANSPORTATION**  
DIVISION OF ENGINEERING SERVICES  
OFFICE ENGINEER  
1727 30<sup>th</sup> Street MS-43  
P.O. BOX 168041  
SACRAMENTO, CA 95816-8041  
FAX (916) 227-6214  
TTY 711



*Flex your power!  
Be energy efficient!*

December 27, 2011

11-SD-15-0.5/M4.0  
11-265304  
Project ID 1100020284  
NH-015(017)E

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN DIEGO COUNTY IN SAN DIEGO FROM 0.1 MILE NORTH OF MAIN STREET UNDERCROSSING TO 0.4 MILE SOUTH OF LANDIS STREET PEDESTRIAN 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 Thursday, January 5, 2012.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 8, 25, 32, 72, and 77 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Special Provisions, Section 10-1.44, "METAL BEAM GUARD RAILING," subsection "ALTERNATIVE IN-LINE TERMINAL SYSTEM," is added as attached.

In the Bid book, in the "Bid Item List," Items 43 and 46 are revised, Items 62 and 63 are added and Items 47 and 61 are deleted as attached.

To Bid book holders:

Replace page 4 and 5 of the "Bid Item List" in the Bid book with the attached revised pages 4 and 5 of the Bid Item List. The revised Bid Item List is to be used in the bid.

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.

Addendum No. 3  
Page 2  
December 27, 2011

11-SD-15-0.5/M4.0  
11-265304  
Project ID 1100020284  
NH-015(017)E

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/11/11-265304](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/11/11-265304)

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,

  
LAURIE BERMAN  
District Director

Attachments

### ALTERNATIVE IN-LINE TERMINAL SYSTEM

Alternative in-line terminal system shall be furnished and installed as shown on the plans and in conformance with these special provisions.

The allowable alternatives for an in-line terminal system shall consist of one of the following National Cooperative Highway Research Program (NCHRP) Report 350 Test Level 3 devices or a Department approved equal:

- A. **TERMINAL SYSTEM (TYPE SKT)** - Terminal system (Type SKT) shall be a SKT 350 Sequential Kinking Terminal manufactured by Road Systems, Inc., located in Big Spring, Texas, and shall include items detailed for terminal system (Type SKT) shown on the plans. The SKT 350 Sequential Kinking Terminal can be obtained from the distributor, Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062, telephone (801) 785-0505 or from the distributor, Gregory Highway Products, 4100 13<sup>th</sup> Street, S.W., Canton, OH 44708, telephone (330) 477-4800.
- B. **TERMINAL SYSTEM (TYPE ET)** - Terminal system (Type ET) shall be an ET-2000 PLUS (4-tube system) extruder terminal as manufactured by Trinity Industries, Inc., and shall include items detailed for terminal system (Type ET) shown on the plans. The ET-2000 PLUS (4-tube system) extruder terminal can be obtained from the manufacturer, Trinity Industries, Inc., P.O. Box 99, 950 West 400S, Centerville, UT 84014, telephone (800) 772-7976.
- C. **TERMINAL SYSTEM (TYPE X-TENSION)** - Terminal System (TYPE X-TENSION) shall be an In-Line Energy Absorbing Non-Gating Terminal manufactured by Barrier Systems Sales and Services LLC, located in Vacaville, CA, and shall include items detailed for terminal system (Type X-TENSION) in conformance with the manufacturer's details. This In-Line Energy Absorbing system is fully re-directive and can be obtained from the manufacturer, Barrier Systems Sales and Services, 3333 Vaca Valley Parkway, Suite 800, Vacaville, CA 95688, telephone (888) 800-3691.

The Contractor shall provide the Engineer with a Certificate of Compliance from the manufacturer in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. The Certificate of Compliance shall certify that the terminal systems furnished conform to the contract plans and specifications, conform to the prequalified design and material requirements, and were manufactured in conformance with the approved quality control program.

Terminal systems shall be installed in conformance with the manufacturer's installation instructions and these requirements. Each terminal system installed shall be identified by painting the type of terminal system in neat black letters and figures 2 inches high on the backside of the rail element between system posts numbers 4 and 5.

For terminal system (Type ET) the steel foundation tubes with soil plates attached shall be, at the Contractor's option, either driven, with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes shall be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer shall be moistened and thoroughly compacted. The wood terminal posts shall be inserted into the steel foundation tubes by hand and shall not be driven. Before the wood terminal posts are inserted, the inside surfaces of the steel foundation tubes to receive the wood posts shall be coated with a grease which will not melt or run at a temperature of 149° F or less. The edges of the wood terminal posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

For terminal system (Type SKT) the soil tubes shall be, at the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the soil tubes shall be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer shall be moistened and thoroughly compacted. Wood posts shall be inserted into the soil tubes by hand. Before the wood terminal posts are inserted, the inside surfaces of the soil tubes to receive the wood posts shall be coated with a grease which will not melt or run at a temperature of 149° F or less. The edges of the wood posts may be slightly rounded to facilitate insertion of the post into the soil tubes.

For terminal system (Type X-Tension), the steel post and soil anchor shall be, at the Contractor's option, either driven, with or without pilot holes, or placed in drilled holes. Space around the steel post and soil anchor shall be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer shall be moistened and thoroughly compacted. The wood terminal posts shall be inserted by hand and backfilled in the same manner as the steel post and soil anchor. Wood terminal posts shall not be driven.

Surplus excavated material remaining after the terminal system has been installed shall be disposed of in a uniform manner along the adjacent roadway where designated by the Engineer.

The contract unit price paid for alternative in-line terminal system shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing alternative in-line terminal system, complete in place, including excavation, backfill and disposal of surplus material, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.