

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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December 4, 2015

10-SJ-132, 580-0.2, L0.0/15.3

10-0Q17U4

Project ID 1014000170

ACNHP-X077(023)E

Addendum No. 5

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN JOAQUIN COUNTY NEAR TRACY FROM STANISLAUS COUNTY LINE TO ALAMEDA COUNTY LINE to revise the project plans, the Notice To Bidders and Special Provisions and the *Bid* book.

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 10, 2015.

Project plan sheets 2, 3, 120, and 123 are replaced and attached for substitution for the like-numbered sheets.

In the Special Provisions, Section 28-3, is added as attached.

In the Special Provisions, Section 28-4, is added as attached.

In the Special Provisions, Section 28-15, is added as attached.

In the Special Provisions, Section 36-2, is added as attached.

In the *Bid* book, in the "Bid Item List," Items 30, and 42 are replaced.

In the *Bid* book, in the "Bid Item List," Items 107 and 108 are added.

In the *Bid* book, in the "Bid Item List," Items 53 and 106 are deleted.

Addendum No. 5  
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Project ID 1014000170  
ACNHP-X077(023)E

To *Bid* book holders:

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

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

**[http://www.dot.ca.gov/hq/esc/oe/electronic\\_bidding/electronic\\_bidding.html](http://www.dot.ca.gov/hq/esc/oe/electronic_bidding/electronic_bidding.html)**

Inform subcontractors and suppliers as necessary.

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

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/10/10-0Q17U4](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/10/10-0Q17U4)**

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,



SHARRI BENDER EHLERT  
District Director  
District 6 Central Region

Attachments

Replace "Reserved" in section 28-3 of the RSS for section 28 with:

**28-3.01 GENERAL**

**28-3.01A Summary**

Section 28-3 includes specifications for constructing rapid strength concrete base (RSCB).

**28-3.01B Definitions**

**final set time:** Elapsed time after initial contact of cement and water required for the mortar sieved from the concrete to reach a penetration resistance of 4,000 psi determined under ASTM C 403.

**early age:** Any age less than 10 times the RSCB final set time.

**opening age:** Age at which the RSCB achieves the specified strength for opening to traffic, including construction traffic.

**28-3.03C Submittals**

At least 10 days before placing RSCB, submit a mix design 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. Final set time
7. Any special instructions or conditions such as water temperature requirements

At least 45 days before placing RSCB, submit a sample of cement from each proposed lot and samples of proposed admixtures in the quantities ordered.

During RSCB activities, 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.

**28-3.01D Quality Control and Assurance**

**28-3.01D(1) General**

Schedule a preoperation conference at a mutually agreed time and place to meet with the Engineer. Make arrangements for the conference facility. Discuss the project specifications and methods of performing each item of work. Items discussed must include the processes for:

1. Production
2. Transportation
3. Placement
4. QC plan, if required
5. Contingency plan
6. QC sampling and testing
7. Acceptance criteria

If QC or acceptance testing indicate non-compliance, stop RSCB placement and before resuming activities:

1. Inform the Engineer of the adjustments you will make
2. Reprocess, remedy, or replace the noncompliant RSCB until it complies with specifications
3. Construct a new test strip of RSCB with proposed adjustments demonstrating ability to comply with the specifications
4. Obtain authorization

Beams for modulus of rupture testing must be fabricated and tested under California Test 524. The beams may be fabricated using an internal vibrator under ASTM C 31. For each test, 3 beam specimens must be fabricated and the test results averaged. No single test represents more than that day's production or 130 cu yd, whichever is less.

For early age testing, beams must be cured so the monitored temperatures in the beams and the test strip are always within 5 degrees F. The internal temperatures of the RSCB and early age beams must be monitored and recorded at intervals of at least 5 minutes. Thermocouples or thermistors connected to strip-chart recorders or digital data loggers must be installed to monitor the temperatures. Temperature recording devices must be accurate to within  $\pm 2$  degrees F. Until early age testing is completed, internal temperatures must be measured at 1 inch from the top, 1 inch from the bottom, and no closer than 3 inches from any edge.

For other age testing, beams must be cured under California Test 524 except beams must be placed into sand at a time that is from 5 to 10 times the final set time, or 24 hours, whichever is earlier.

#### **28-3.01D(2) Quality Control Managers**

Not Used

#### **28-3.01D(3) Quality Control Plan**

Not Used

#### **28-3.01D(4) Test Strip**

Not Used

#### **28-3.01D(5) Quality Control Testing**

During placement of RSCB, fabricate beams and test modulus of rupture for opening age and 7 days within the first 30 cu yd, at least once every 130 cu yd, and within the final truckload. Opening age tests must be performed in the presence of the Engineer.

RSCB must have an opening age modulus of rupture of not less than 400 psi and a 7-day modulus of rupture of not less than 600 psi.

#### **28-3.01D(6) Acceptance Criteria**

RSCB acceptance is based on 7-day modulus of rupture.

RSCB must develop a minimum modulus of rupture of 600 psi after 7 days from placement.

### **28-3.02 MATERIALS**

#### **28-3.02A General**

Not Used

### **28-3.02B Rapid Strength Concrete Base**

Concrete for RSCB must be RSC.

For batches with a volume of 1 cu yd or more, 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.
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 use a platform scale. The platform scale must have a maximum capacity of 2.75 tons with a maximum graduation size of 1 lb. 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 RSCB being produced.
4. Proportion cement, water, and aggregate volumetrically.

For the combined aggregate grading, the difference between the percent passing the 3/8-inch sieve and the percent passing the No. 8 sieve must be at least 16 percent of the total aggregate.

You may use Type C accelerating and Type E accelerating and water reducing chemical admixtures.

### **28-3.02C Curing Seal**

Asphaltic emulsion must be Grade RS1 or SS1.

### **28-3.03 CONSTRUCTION**

#### **28-2.03A General**

Not Used

#### **28-3.03B Subgrade Preparation**

Immediately before placing RSCB, the subgrade to receive the base must comply with the specified compaction and elevation tolerances and be:

1. Free of loose and extraneous material
2. Uniformly moist, but free of standing or flowing water

#### **28-3.03C Placing, Spreading, and Shaping**

You may place RSCB in 2-lane monolithic segments. A longitudinal joint is not required in the center of the concrete base.

Place RSCB under section 40-1.03H except the 4th paragraph of 40-1.03H(1) does not apply.

Construct transverse contraction joints at 30-foot intervals. Cut a groove in the RSCB with a power driven concrete saw. Grooves for longitudinal and transverse contraction joints must be the minimum width possible for the type of saw used. Immediately wash slurry from the joint with water at a pressure less than 100 psi.

The RSCB finished surface must not vary more than 1/4 inch from the bottom of a 12-foot long straightedge placed parallel with the center line.

Broom the RSCB surface to produce a uniform, rough surface. Do not broom the surface until the concrete base has set sufficiently.

**28-3.03D Curing**

Begin curing work as soon as free water leaves the RSCB surface.

Cure RSCB by applying a curing seal of asphaltic emulsion under section 94. Apply curing seal at a rate from 0.15 to 0.25 gal/sq yd. The Engineer determines the exact application rate. If you damage applied curing seal, immediately cover the damaged area with additional curing seal at your expense. Do not remove curing seal until surfacing is placed.

If you do not place HMA within 24 hours of applying curing seal, apply more asphaltic emulsion at a rate from 0.03 to 0.05 gal/sq yd residual binder content immediately before placing HMA.

**28-3.03E Surfaces Not Within Tolerance**

RSCB must be within 0.05 foot of the grade established by the Engineer. Remove and replace hardened RSCB with a surface higher than 0.05-foot above the grade established by the Engineer with RSCB, or if approved, high areas may be ground until the surface of RSCB conforms to the tolerances specified. Grinding equipment must be equipped with diamond carborundum blades. Clean the ground area of RSCB that is to be covered with pavement of all foreign material and grinding residue as soon as any free water has left the surface and apply curing seal.

Where the surface of RSCB is lower than 0.05 foot from the grade established by the Engineer, remove the base and replace it with RSCB or, if authorized, fill low areas with HMA that complies with the specifications for the lowest layer of pavement. Do not fill low areas concurrently with the paving operation.

**28-3.04 PAYMENT**

Rapid strength concrete base is measured from the dimensions shown.

The amount of curing seal used is determined from the gauge on the curing seal equipment.

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

1. Payment for RSCB with a 7-day modulus of rupture of 600 psi or greater is not adjusted.
2. Payment for RSCB with a 7-day modulus of rupture less than 500 psi is not adjusted and no payment is made. Remove and replace this RSCB at your expense with RSCB that complies with the specifications.
3. Payment for RSCB with 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 as follows:

**Percentage Pay Table**

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	Less than 500
100%	95%	90%	0%

**Replace "Reserved" in section 28-4 of the RSS for section 28 with:**

**28-4.01 GENERAL**

**28-4.01A Summary**

Section 28-4 includes specifications for constructing lean concrete base rapid setting (LCBRS).

**28-4.01B Definitions**

**final set time:** Elapsed time after initial contact of cement and water required for the mortar sieved from the concrete to develop a penetration resistance of 4,000 psi under ASTM C 403.

**opening age:** Age when the LCBRS achieves the specified strength for opening to traffic including construction traffic.

**28-4.01C Submittals**

**28-4.01C(1) General**

At least 25 days before field qualification, submit the name of your proposed testing laboratory.

Submit quality control test results within 24 hours of test completion.

**28-4.01C(2) Mix Design**

Determine the mix proportions for LCBRS and submit mix designs.

At least 10 days before placing LCBRS, submit a mix design for LCBRS and include:

1. Opening age
2. Proposed aggregate gradation
3. Mix design, including
  - 3.1. Proportions
  - 3.2. Types and amounts of chemical admixtures
4. Maximum time allowed between batching and placing
5. Range of ambient temperatures over which the mix design is applicable
6. Final-set-time
7. Aggregate qualification test results if required

Submit 1 mix design for each ambient temperature variation anticipated during LCBRS placement. Each mix design must have a maximum ambient temperature range of 18 degrees F.

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

**28-4.01C(3) Field Qualification**

Submit field qualification data and test reports including:

1. Mixing date
2. Mixing equipment and procedures used
3. Batch volume in cubic yards, minimum 5 cu yd
4. Type and source of ingredients used
5. Age and strength at time of cylinder testing

Field qualification test reports must be certified with a signature by an official in responsible charge of the laboratory performing the tests.

## **28-4.01D Quality Control and Assurance**

### **28-4.01D(1) General**

Stop LCBRS activities and immediately notify the Engineer if:

1. Any quality control or acceptance test result does not comply with the specifications
2. Visual inspection shows noncompliant LCBRS

If LCBRS activities are stopped, before resuming activities:

1. Inform the Engineer of the adjustments you will make
2. Remedy or replace the noncompliant LCBRS until it complies with specifications
3. Field qualify the LCBRS demonstrating ability to comply with the specifications
4. Obtain authorization

For compressive strength testing, prepare 6 cylinders under California Test 540. Test specimens must be 6 by 12 inches. As an alternative to rodding, a vibrator may be used under California Test 524. Test cylinders under California Test 521 and perform 3 tests with each test consisting of 2 cylinders. The test result is the average from the 2 cylinders.

### **28-4.01D(2) Field Qualification**

Proposed mix proportions must be field qualified before you place LCBRS. The technician performing the field test must hold current American Concrete Institute (ACI) certification as a Concrete Field Testing Technician-Grade I.

Field qualification must comply with the following:

1. Test for compressive strength at opening age and 7 days of age
2. At opening age, the compressive strength for each test must be at least 180 psi and the average strength for the 3 tests must be at least 200 psi
3. At 7 days age, the compressive strength for each test must be at least 600 psi and the average strength for the 3 tests must be at least 725 psi

**28-4.01D(3) Quality Control Testing**

Perform sampling under California Test 125.

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

Perform quality control sampling, testing, and inspection throughout LCBRS production and placement. For LCBRS, your quality control testing and results must comply with the following table:

<b>Quality Control Requirements</b>			
Quality characteristic	Test method	Minimum testing frequency	Requirement
Sand equivalent (min)	ASTM D 2419	1 per 500 cu yd, minimum 1 per day of production  1 per 4 hours of placement work, plus one in the last hour of placement work	71 <sup>a</sup>
Aggregate gradation	ASTM C 136		Comply with section 28-2.02C
Air content (max, percent) <sup>b</sup>	ASTM C 231		4
Penetration <sup>c</sup> (inches)	ASTM C 360		0–2-1/2 nominal 3 maximum
Slump <sup>c</sup> (inches)	ASTM C 143		0–5 nominal 6 maximum
Compressive strength (min, psi at 7 days)	California Test 521		725
Compressive strength (min, psi at opening age)	California Test 521		200

<sup>a</sup> If aggregate is qualified under section 28-4.02D, subparagraph 2, the minimum is 18.

<sup>b</sup> If no single test in the first 5 air content tests exceeds 1-1/2 percent, no further air content tests are required.

<sup>c</sup> Test either penetration or slump

**28-4.01D(4) Acceptance Criteria**

LCBRS acceptance is based on compliance with the requirement for the quality characteristic shown in the following table:

**LCBRS Acceptance Criteria Testing**

Quality characteristic	Test method	Requirement
Compressive strength (min, psi at 7 days)	California Test 521 <sup>a</sup>	725

<sup>a</sup>Cylinders made under California Test 540

**28-4.02 MATERIALS****28-4.02A General**

Not Used

**28-4.02B Cement**

Cement must comply with the requirements for RSC.

**28-4.02C Chemical Admixtures**

Chemical admixtures must comply with chemical admixtures for concrete except you may use Type E chemical admixture. You may submit a request to use citric acid or borax. Your request must include a request from the cement manufacturer and a test sample.

#### **28-4.02D Aggregates**

Aggregate must comply with either of the following:

1. Section 90-1.02C except aggregate grading must comply with the aggregate grading table in section 28-2.02C
2. Section 28-2.02C and the following:
  - 2.1. Qualify the aggregate for each proposed aggregate source and gradation
  - 2.2. Qualification tests include (1) sand equivalent and (2) average 7-day compressive strength under ASTM C 39 on 3 specimens manufactured under ASTM C 192. The cement content for this test must be 300 lb/cu yd, and the 7-day compressive strength must be at least 610 psi. Cement must be Type II portland cement under section 90-1.02B(2) without SCM.

#### **28-4.03 CONSTRUCTION**

##### **28-4.03A General**

Construct LCBRS under section 28-2.03 except (1) section 28-2.03A does not apply and (2) the 4th through 6th paragraphs of section 28-2.03D do not apply.

Do not open the LCBRS to traffic before opening age.

Subsequent paving operations may begin only after final set time of LCBRS and it must have a compressive strength of at least 450 psi under California Test 521 before:

1. Placing HMA
2. Placing base
3. Operating equipment on the LCBRS

##### **28-4.03B Proportioning, Mixing, and Transporting**

For batches 1 cu yd or more, 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.
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 preweighed containerized cement is added to the mixer truck. The cement preweighing 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 lb. Preweigh 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 LCBRS being produced.
4. Proportion cement, water, and aggregate volumetrically under ASTM C 685 or section 90-3.02B.

##### **28-4.03C Spreading, Compacting and Shaping**

You may use metal or wood side forms. Wood side forms must be at least 1-1/2 inches thick.

After you deposit the LCBRS on the subgrade, consolidate it with high-frequency internal vibrators. Consolidate adjacent to forms and across the full pavement width. Place LCBRS as nearly as possible to its final position.

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

After you place LCBRS, 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 authorized.

#### **28-4.04 PAYMENT**

Lean concrete base rapid setting is measured from the dimensions shown.

If volumetric proportioning is used and calibration is performed more than 100 miles from the project limits, the Department deducts \$1,000 for each calibration session.

**Replace section 28-15 in the RSS for section 28 with:  
28-15 REPLACE BASE**

**28-15.01 GENERAL**

Section 28-15 includes specifications for removing the existing base and constructing base.

Sections 15-2.02B and 15-3 do not apply to removing base.

RSCB must comply with section 28-3.

LCBRS must comply with section 28-4.

**28-15.02 MATERIALS**

Base must be one of the following:

1. RSCB
2. LCBRS

**28-15.03 CONSTRUCTION**

Do not remove the existing base with the overlying pavement. Remove only the portion that can be replaced during the same lane closure. If you fail to complete the replacement during the same traffic closure, construct temporary pavement structure under section 41-1.

The dimensions shown for replacing base are approximate. After you remove the overlying pavement, the Engineer determines the exact dimensions for replacing base. Obtain verbal authorization before saw cutting existing base.

Before removing existing base, saw-cut the outline of the base removal area using a power-driven saw. Cut on a neat line that is perpendicular to the pavement surface. Cut at least 2 inches deep except if the existing base is either CTB or any type of concrete base, cut full-depth.

Removal methods must not damage the existing base remaining in place. Do not impact existing base within 18 inches horizontally of the existing base to remain in place.

After removing existing base, grade the remaining underlying material under section 19-1.03C and compact it under section 19-5.03A.

If you remove material below the authorized depth, fill these areas by placing additional base material in the same operation as placing the new base at your expense.

**28-15.04 PAYMENT**

Reserved

Replace "Reserved" in the RSS for section 36-2 with:

**36-2.01 GENERAL**

**36-2.01A Summary**

Section 36-2 includes specifications for applying or placing a base bond breaker between a base and concrete pavement.

**36-2.01B Definitions**

Not Used

**36-2.01C Submittals**

Submit a certificate of compliance for each shipment of base bond breaker material delivered.

**36-2.01D Quality Control and Assurance**

Not Used

**36-2.02 MATERIALS**

The base bond breaker must be one of the following:

Base bond breaker no.	Description
1	PG asphalt binder, Grade PG 64-10
2	Curing compound no. 3
3	White opaque polyethylene film under ASTM C171 except the minimum thickness must be 6 mils
4	White curing paper under ASTM C171
5	Geosynthetic bond breaker

**36-2.03 CONSTRUCTION**

**36-2.03A General**

Before placing base bond breaker, remove foreign and loose materials from the base.

Do not place a base bond breaker until the base has cured.

Pave over the base bond breaker within 72 hours of placing it.

**36-2.03B Applying and Placing Base Bond Breaker**

Select a bond breaker to apply or place over the base material as shown in the following table:

Base material	Bond breaker no.
LCB	1, 2, 5
Concrete base	
LCB rapid setting	3, 4, 5
RSC base	
CTPB	
Existing base	

Apply base bond breaker no. 1 in a single application at a uniform rate from 0.09 to 0.15 gal/sq yd over the entire surface of the base. Cure for at least 4 hours before paving.

Mix base bond breaker no. 2 as specified for mixing curing compound for concrete. Apply the bond breaker in one or more applications to achieve a coverage rate of at least 0.12 gal/sq yd over the entire surface of the base. Cure for at least 4 hours before paving.

Place base bond breakers no. 3 and 4 without wrinkles. Overlap adjacent sheets a minimum of 6 inches in the same direction as the concrete pour. Tape or bond the sheets together as needed to prevent the sheets from folding or wrinkling. Secure the bond breaker such that it remains in place during concrete placement. Ensure that no concrete gets under the bond breaker.

Place base bond breaker no. 5 without wrinkles. Overlap adjacent sheets a minimum of 8 inches in the same direction as the concrete pour. Overlap no more than 3 layers at any location. Secure the base bond breaker to the base with pins or nails punched through galvanized washers or discs from 2 to 2.75-inches in diameter. Place fasteners less than 3 feet apart along the edges and 6 feet apart elsewhere. If the bond breaker moves or wrinkles during concrete pavement placement, use more fasteners at a smaller spacing. Ensure that no concrete gets under the bond breaker.

**36-2.04 PAYMENT**

The payment quantity for base bond breaker does not include the quantity used for overlaps.

**BID ITEM LIST  
10-0Q17U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	130900	TEMPORARY CONCRETE WASHOUT	LS	LUMP SUM	LUMP SUM	
22	140003	ASBESTOS COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
23	141103	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	172,000		
24	141120	TREATED WOOD WASTE	LB	38,300		
25	029976	BIRD EXCLUSION DEVICES	LS	LUMP SUM	LUMP SUM	
26	150661	REMOVE GUARDRAIL	LF	2,700		
27	150768	REMOVE ASPHALT CONCRETE PAVEMENT (CY)	CY	330		
28	150771	REMOVE ASPHALT CONCRETE DIKE	LF	131,000		
29	150801	REMOVE OVERSIDE DRAIN	EA	150		
30	150854	REMOVE CONCRETE PAVEMENT (CY)	CY	2,110		
31	150857	REMOVE ASPHALT CONCRETE SURFACING	SQFT	2,028		
32	152423	ADJUST MONUMENT TO GRADE	EA	82		
33	152430	ADJUST INLET	EA	7		
34	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	22,100		
35	153130	REMOVE CONCRETE CURB (LF)	LF	5,720		
36	153225	PREPARE CONCRETE BRIDGE DECK SURFACE	SQFT	2,028		
37 (F)	153233	TREAT BRIDGE DECK	SQFT	2,028		
38	153234	FURNISH BRIDGE DECK TREATMENT MATERIAL	GAL	25		
39	160102	CLEARING AND GRUBBING (LS)	LS	LUMP SUM	LUMP SUM	
40	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	

**BID ITEM LIST  
10-0Q17U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	180106	DUST PALLIATIVE	LS	LUMP SUM	LUMP SUM	
42	190101	ROADWAY EXCAVATION	CY	21,700		
43	190185	SHOULDER BACKING	TON	4,040		
44	198010	IMPORTED BORROW (CY)	CY	18,000		
45	210010	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	1		
46	210300	HYDROMULCH	SQFT	1,040,000		
47	210350	FIBER ROLLS	LF	88,000		
48	210430	HYDROSEED	SQFT	1,040,000		
49	210600	COMPOST	SQFT	1,040,000		
50	210630	INCORPORATE MATERIALS	SQFT	308,000		
51	BLANK					
52	260203	CLASS 2 AGGREGATE BASE (CY)	CY	6,070		
53	BLANK					
54	370120	ASPHALT-RUBBER BINDER	TON	380		
55	374002	ASPHALTIC EMULSION (FOG SEAL COAT)	TON	9		
56	375035	PRECOATED SCREENINGS	TON	2,710		
57	390011	PREPAVING INERTIAL PROFILER	LS	LUMP SUM	LUMP SUM	
58	390020	PREPAVING GRINDING DAY	EA	3		
59	390100	PRIME COAT	TON	19		
60	390132	HOT MIX ASPHALT (TYPE A)	TON	71,600		

**BID ITEM LIST  
10-0Q17U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
102	029980	FIBER OPTIC SYSTEM	LS	LUMP SUM	LUMP SUM	
103	029981	INTELLIGENT TRANSPORTATION SYSTEM	LS	LUMP SUM	LUMP SUM	
104	BLANK					
105	150714	REMOVE THERMOPLASTIC TRAFFIC STRIPE	LF	125,000		
106	BLANK					
107	280200	REPLACE BASE	CY	260		
108	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID:**

**\$**

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