



### **ADDENDUM NO. 3**

TO: All Plan holders and Prospective Bidders  
FROM: City of Capitola Public Works  
DATE: April 3, 2020  
RE: **ADDENDUM NO. 3**  
**BROMMER STREET COMPLETE STREET IMPROVEMENT PROJECT**

### **ADDENDUM NO. 3**

#### **City of Capitola, California**

This Addendum shall be considered as a part of the bid documents for the subject project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original documents, this Addendum shall govern and take precedence.

Contractors are hereby notified that they shall make any necessary adjustments in their proposals on account of this Addendum. It will be construed that each proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

Receipt of this Addendum must be acknowledged on the Addendum Acknowledgement form. Signature on said Bid Form indicates acknowledgement of receipt of Addendum No. 3, and that said Addendum No. 3 was properly evaluated in bidder's proposal. Any proposal not in compliance with this requirement may be rejected.

Steven E. Jesberg, Public Works Director

The following is here by added and/or amended:

- ❑ The required documents for the bid submittal shall be changed to include only pages **4-22** plus all addendums to the Special Project Specifications. All other pages of the specifications can be omitted from the bid proposal documents.
  
- ❑ Bidder's Bond date modified to: **11:00 a.m. on Wednesday, April 15, 2020** at the City of Capitola, City Hall, 420 Capitola Avenue, Capitola, CA 95010
  
- ❑ **BASE BID – SCHEDULE A**  
Item 21 Cement (Full Depth Reclamation – Cement)  
Estimated Quantity: 1.2  
Unit: TON
  
- ❑ **ADD ALTERNATIVE – SCHEDULE B**  
Item 21 Cement (Full Depth Reclamation – Cement)  
Estimated Quantity: 0.4  
Unit: TON
  
- ❑ **REFER TO THE FOLLOWING PAGES FOR:**  
Section 30-4.02A  
Section 30-4.03D  
Section 30-4.03E  
Section 30-4.03F  
Section 30-4.03G  
Additional Section 30-4.03H Traffic Control

**BIDDER'S BOND**

KNOW ALL MEN BY THESE PRESENT:

THAT WE, \_\_\_\_\_

AS PRINCIPAL, AND \_\_\_\_\_

AS SURETY, are held and firmly bound unto the City of Capitola in the penal sum of 10 PERCENT OF THE TOTAL AMOUNT OF THE BID of the Principal above named, submitted by said Principal to the City of Capitola for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made to the City of Capitola to which said bid was submitted, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. In no case shall the liability of the surety hereunder exceed the sum of \$ \_\_\_\_\_

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the Principal has submitted the above-mentioned bid to the City of Capitola, aforesaid, for certain construction specifically described as follows, for which bids are to be opened at:

Wednesday, April 15, 2020 at 11:00 a.m., Capitola City Hall, 420 Capitola Avenue, Capitola, CA 95010

For: **Brommer Street Complete Street Improvement Project**

Construct complete street improvements on Brommer Street in the City of Capitola to improve access for vehicles, bicycles, and pedestrians. Project improvements include pavement reconstruction, construction of sidewalk, curb and gutter, driveway approaches, and related items of work along the north side of the roadway; striping and pavement marking. Demolition of existing improvements, traffic control, and stormwater pollution prevention are included. Project site is on Brommer Street from the Capitola western city limit boundary to 41<sup>st</sup> Avenue.

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

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

\_\_\_\_\_(Seal)\_\_\_\_\_ (Seal)

\_\_\_\_\_(Seal)\_\_\_\_\_ (Seal)

Principal

Surety

Address \_\_\_\_\_ Address \_\_\_\_\_

Note: Signatures of those executing for the surety must be properly acknowledged.

**BASE BID – SCHEDULE A**

Item	Description	Estimated Quantity	Unit	Unit Price	Total
1	Mobilization	1	LS		
2	Construction Area Signs	1	LS		
3	Traffic Control System	1	LS		
4	Survey and Construction Staking	1	LS		
5	Survey Monumentation and Preservation	1	LS		
6	Temporary Water Pollution Control and Erosion Control	1	LS		
7	Lead Compliance Plan	1	LS		
8	Clearing and Grubbing	1	LS		
9	Remove Thermoplastic Traffic Stripe	2,450	LF		
10	Remove Thermoplastic Pavement Marking	412	SQFT		
11	Reset Roadside Sign	1	EA		
12	Relocate Mailbox	2	EA		
13	Adjust Sewer Utility Manhole Cover to Grade	3	EA		
14	Adjust Water Utility Manhole Cover to Grade	4	EA		
15	Adjust Water Valve / Water Meter Box Cover to Grade	6	EA		
16	Remove Culvert	36	LF		
17	Cold Plan Asphalt Concrete Pavement	64	SY		
18	Roadway Excavation	58	CY		
19	Hot Mix Asphalt (Type A)	892	TON		
20	Aggregate Base (Class 2)	60	CY		
21	Cement (Full Depth Reclamation - Cement)	26 (1.2)	CY (TON)		
22	Full Depth Reclamation (FDR-C)	2,644	SY		
23	Stress Absorbing Membrane Interlayer (SAMI)	2,644	SY		
24	Minor Concrete (Curb and Gutter)	310	LF		
25	Minor Concrete (Curb Type D)	209	LF		
26	Minor Concrete (Driveway Conform)	545	SQFT		
27	Minor Concrete (Sidewalk)	695	SQFT		
28	Minor Concrete (Depressed Driveway)	740	SQFT		
29	Roadside Sign (One Post - Metal)	11	EA		
30	Thermoplastic Traffic Stripe	2,886	LF		
31	Thermoplastic Pavement Marking	408	SQFT		
32	Thermoplastic Pavement Marking (Green)	201	SQFT		
33	Object Marker (Type OM2-2H)	2	EA		
34	Inductive Loop Detector (Type A and Type D)	5	EA		
<b>TOTAL BASE BID – SCHEDULE A</b>					<b>\$</b>

**ADD ALTERNATIVE 1 – SCHEDULE B**

Item	Description	Estimated Quantity	Unit	Unit Price	Total
1	Mobilization	1	LS		
2	Construction Area Signs	1	LS		
3	Traffic Control System	1	LS		
4	Survey and Construction Staking	1	LS		
5	Survey Monumentation and Preservation	1	LS		
6	Temporary Water Pollution Control and Erosion Control	1	LS		
7	Lead Compliance Plan	1	LS		
8	Clearing and Grubbing	1	LS		
9	Remove Thermoplastic Traffic Stripe	958	LF		
10	Remove Thermoplastic Pavement Marking	61	SQFT		
11	Reset Roadside Sign	0	EA		
12	Relocate Mailbox	0	EA		
13	Adjust Sewer Utility Manhole Cover to Grade	1	EA		
14	Adjust Water Utility Manhole Cover to Grade	2	EA		
15	Adjust Water Valve / Water Meter Box Cover to Grade	0	EA		
16	Remove Culvert	0	LF		
17	Cold Plan Asphalt Concrete Pavement	40	SY		
18	Roadway Excavation	2	CY		
19	Hot Mix Asphalt (Type A)	303	TON		
20	Aggregate Base (Class 2)	9	CY		
21	Cement (Full Depth Reclamation - Cement)	9 (0.4)	CY (TON )		
22	Full Depth Reclamation (FDR-C)	896	SY		
23	Stress Absorbing Membrane Interlayer (SAMI)	896	SY		
24	Minor Concrete (Curb and Gutter)	0	LF		
25	Minor Concrete (Curb Type D)	0	LF		
26	Minor Concrete (Driveway Conform)	0	SQFT		
27	Minor Concrete (Sidewalk)	0	SQFT		
28	Minor Concrete (Depressed Driveway)	0	SQFT		
29	Roadside Sign (One Post - Metal)	0	EA		
30	Thermoplastic Traffic Stripe	1,201	LF		
31	Thermoplastic Pavement Marking	57	SQFT		
32	Thermoplastic Pavement Marking (Green)	0	SQFT		
33	Object Marker (Type OM2-2H)	0	EA		
34	Inductive Loop Detector (Type A and Type D)	0	EA		
<b>TOTAL ADD ALTERNATIVE 1 – SCHEDULE B</b>					<b>\$</b>

<b>TOTAL BASE BID plus ADD ALTERNATIVE 1</b>	<b>\$</b>
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all work involved in placing “Hot Mix Asphalt (Type A)” complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

### **10-2.16 AGGREGATE BASE (CLASS 2)**

The work performed in connection with “Aggregate Base (Class 2)” and “Gravel Backfill” shall conform to the provisions in Section 26, “Aggregate Bases,” of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Measurement and Payment-The contract unit price paid per cubic yard for “Aggregate Base (Class 2)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in placing “Aggregate Base (Class 2)” complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

The contract unit price paid per cubic yard for “Gravel Backfill” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in placing “Gravel Backfill” complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

### **10-2.17 FULL DEPTH RECLAMATION**

The work performed in connection with “Full Depth Reclamation (FDR-C)” and “Full Depth Reclamation - Cement” shall conform to the provisions in Section 30-4, “Full Depth Reclamation - Cement,” of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Geotechnical Investigation – Design Phase, prepared by Butano Geotechnical Engineers, Inc., is provided for additional information. The finished grade of the installed HMA pavement within the FDR-C section, as shown on the plans, is to conform to the existing lip of gutter. The post-construction roadway grade is to match the existing, preconstruction roadway grade. Due to existing soil conditions consisting of fine- and coarse-grained soil, it is recommended that 3 percent lime and 3 percent cement mix be used for bidding purposes. The soil lime/cement mixture shall achieve a minimum unconfined compressive strength of 300 psi at 28 days. The exact ratios required to achieve the design strength of 300 psi shall be determined by the contractor prior to construction. The contractor should employ the services of the geotechnical engineer of record to determine the exact lime/cement ratios.

Contractor shall determine the final lime/cement ratio of the FDR-C mix design prior to construction and submit mix design to the Engineer. Contractor shall remove existing material, as needed according to the Contractor-submitted and City approved FDR-C mix design, accounting for proposed HMA design section and swell associated with FDR-C material processing. Contractor shall adjust existing pavement material removal, as necessary, based on Contractor-submitted mix design.

#### **Add to ~~s~~Section 30-4.02A General:**

Full Depth Reclamation (FDR –C) includes chemical stabilization work consisting of mixing in-place material with high calcium quicklime, cement, and water, including spreading, mixing, and compacting the mixture as specified in these specifications. ~~Quicklime Plus (QLP) work consists of mixing in-place material with Quicklime Plus and water, including spreading, mixing, and compacting the mixture as specified in these specifications.~~

#### Materials

A. In-place material shall be the native material containing no rocks or solids larger than 4 inches in any dimension. Removing and disposing of said rocks or solids larger than 4 inches will be paid for as extra work.

B. Lime – Lime shall be high calcium quicklime conforming to the chemical requirements in ASTM C977. Quicklime shall be protected from moisture until used and be sufficiently dry to flow freely when handled. The certificate of compliance and a certified weighmaster ticket showing the shipping weight shall be submitted to the Engineer with each delivery.

C. Cement – Cement shall be Type II or Type V Portland cement conforming to the chemical requirements in ASTM C150.

~~B. Quicklime Plus – Quicklime Plus (QLP) is a mixture of Quicklime and General Use Ordinary Portland Cement. The Quicklime Plus shall be protected from moisture until used and be sufficiently dry to flow freely when handled. The certificate of compliance is printed on each delivery tag.~~

E-D. Water shall be clean and potable and shall be added as needed during mixing and re-mixing operations, during compacting, during the curing period, and to keep the cured material moist until covered.

**Replace Section Add to section 30-4.03D Spreading Materials with the following:**

Proportioning / Spreading Quicklime Spreading; Initial Mixing, and Mellowing

A. Spread, mix, and mellow quicklime component prior to applying cement component.

A-B. The quicklimeQLP shall be spread in one operation to the required width, grade and cross section. QLPQuicklime shall be evenly spread at the designated rate. Only a calibrated spreader able to provide a uniform distribution of the QLPquicklime throughout the treatment area shall spread the QLPquicklime. The quicklimelime and cement components shall ~~not~~ be spread separately from the cement components.

B-C. Tailgate spreading of the QLPquicklime will not be permitted. Tailgating is defined as having manual control of the spread rate, instead of automatic computer control. The spreader truck shall demonstrate the ability to maintain a consistent spread rate over variable travel speeds.

E-D. The contractor shall demonstrate the consistency of the spread rate and shall conduct a "pan test" in the presence of the engineer.

E. The Qquicklime-Plus to be mixed with the native material shall be furnished in bulk. \

F. No traffic other than the mixing equipment or other related construction equipment will be allowed to pass over the spread quicklime until after completion of mixing.

D-G. The high calcium Qquicklime-Plus shall be added in a dry state and every precaution shall be taken to prevent dusting. The spreading operations shall be conducted in such a manner that a hazard is not present to construction personnel or the public.

E-H. The spreading equipment shall have an operating baghouse with a positive vacuum system to mitigate the release of any fugitive dust.

F.I. The rate of QLPquicklime spread shall not vary more than +/-Five (5) percent from the designated rate.

~~G. It is recommended that 3 percent lime and 3 percent cement mix be used for bidding purposes. The soil lime/cement mixture shall achieve a minimum unconfined compressive strength of 300 psi at 28 days. The exact ratios required to achieve the design strength of 300 psi shall be determined by the contractor prior to construction. The contractor should employ the services of the geotechnical engineer of record to determine the exact lime/cement ratios.~~

~~H.J. All QLP spread shall be thoroughly mixed into the soil within the same day Quicklime Plus spreading operations are performed. After spreading has been completed, the quicklime shall be thoroughly mixed with the pulverized base material. The mixing operation shall be performed while introducing water into the pulverized base material-quicklime mixture through operation of the metering/pump device on the reclaimer.~~

K. In areas where mixer cannot access, such as around manholes or curbs, the grading contractor shall process the material the same day by pulling the material away from obstacles immediately after initial mixing.

~~H.L. The pulverized base material – quicklime mixture shall be allowed to cure or “mellow” in an un-compacted state for a period of no less than 16 hours unless otherwise specified in the approved mix design or approved by the Engineer. During the mellowing periods, the moisture content of the mixture shall be maintained above the optimum moisture content.~~

~~J. No traffic other than the mixing equipment or other related construction equipment will be allowed to pass over the spread Quicklime Plus until after completion of mixing.~~

### Portland Cement Spreading

~~A. Spread cement uniformly over the full roadway surface width. Do not spread cement more than 30 minutes before mixing. Do not apply dry cement in windy conditions that will result in dust outside the FDR-cement area.~~

~~B. The spread rate must be the mix design rate or the ordered rate in lb/sq yd ± 5 percent.~~

~~C. Do not spread cement before pulverizing~~

### **Add to Ssection 30-4.03E Mixing:**

#### Mixing / Re-mixing

A. The mixer machine shall be a cross-shaft type mixer capable of providing a uniform homogeneous mixture throughout the depth indicated on the plans.

B. The mixer machine shall be capable of automatically adjusting itself to maintain a constant depth.

C. The Engineer shall determine the depth of treatment during and after the mixing operations. Mixing equipment shall be equipped with a visible depth indicator showing mixing depth, an odometer or foot meter to indicate travel speed, and a controllable water additive system for regulating water added to the mixture.



- D. Mixing equipment shall be of the type that can mix the full depth of the desired thickness and leave a relatively smooth bottom of the treated section. Mixing and re-mixing, regardless of equipment used will continue until the material is uniformly mixed, free of streaks or pockets of reagent.
- E. The treated material moisture content shall be approximately 3 percent over optimum and all material other than rock or aggregate will be <1 1/2".
- F. Non-uniformity of color reaction when the treated material, exclusive of one inch or larger clods, is tested with the standard phenolphthalein alcohol indicator, will be considered evidence of inadequate mixing.
- G. Treated material shall not be mixed or spread while the soil temperature is below 40 F or below 1.67 C.
- ~~H. The final mixing and initial compaction shall not be performed prior to the designated number of mellowing hours. The mellowing period shall be a minimum of 16 hours. The entire mixing operation shall be completed within 48 hours of the initial spreading of Quicklime Plus, unless otherwise permitted by the Engineer.~~

**Add to Section 30-4.03F Compacting and Grading:  
Compacting**

- A. The high calcium qQuicklime Plus and Portland cement treated soils shall be compacted to a minimum relative compaction of 95% as determined by ASTM 1556, ASTM 1557 based on wet density and shall be completed after the mellowing period and second mixing.
- B. The maximum compacted thickness of a single layer may be any thickness the contractor can demonstrate to the Engineer that his equipment and method of operation will provide the required compacted density the layer.
- C. Initial compaction shall be performed by means of segmented sheepsfoot compactor. Final rolling shall be by means of steel-tired or pneumatic-tired rollers. Areas inaccessible to rollers shall be compacted to the required compaction by other means satisfactory to the Engineer.
- D. Compaction testing by nuclear gauge will be calibrated for inaccurate moisture readings as per the manufacturer owner’s manual. Any compaction issues will be moderated by the use of a sand cone.

**Add to Section 30-4.03G Finishing:  
Curing**

- A. The surface of each compacted layer of treated material shall be kept moist until covered by a subsequent layer (“moist blanket cure”, i.e. base rock). If the treated section is to be exposed for more than 4 days, then a curing seal may be considered. The cure seal shall consist of SS or CSS grade asphaltic emulsion and can be applied as an option to continued water curing after the initial 3 days.
- B. Curing seal shall be applied at a rate of between 0.45- and 0.90-L per square meter of surface. Curing seal shall not be placed when the atmospheric temperature is below 5°C.

**Add Section 30-4.03H Traffic Control:**

Completed portions of the FDR-C base can be opened immediately to low-speed local traffic and to construction equipment, provided the curing material or moist curing operations are not impaired, and provided the FDR-C base is sufficiently stable to withstand marring or permanent deformation.

Traffic control must maintain vehicular driveway access to private property in the project area for local traffic in the morning before construction begins and in the evening after construction has ended for the day.

Measurement and Payment-The contract unit price paid per ~~square yard~~ton for “Full Depth Reclamation (FDR-C)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in placing “Full Depth Reclamation (FDR-C)” complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions. The removal and pulverization of existing asphalt pavement and underlying material used for “Full Depth Reclamation (FDR-C)” shall be considered as included in the prices paid for the various contract items and no additional compensation shall be allowed therefore.

The contract unit price paid per cubic yard for “Cement (Full Depth Reclamation - Cement)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in placing “Full Depth Reclamation - Cement” complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

**10-2.18 STRESS ABSORBING MEMBRANE INTERLAYER**

The work performed in connection with “Stress Absorbing Membrane Interlayer (SAMI)” shall conform to the provisions in Section 37-2.05, “Stress Absorbing Membrane Interlayers” of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions. Contractor to provide material submittal for City approval.

Measurement and Payment-The contract unit price paid per square yard for “Stress Absorbing Membrane Interlayer (SAMI)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in placing “Stress Absorbing Membrane Interlayer (SAMI)” complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

**10-2.19 MINOR CONCRETE**

The work performed in connection with “Minor Concrete” shall conform to the provisions in Sections 73, “Concrete Curbs and Sidewalks” and 90 “Concrete” of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Work included in “Minor Concrete” shall include, but not be limited to:

1. Curb and Gutter
2. Sidewalk
3. Curb Ramp
4. Median Curb
5. Depressed Driveway per City of Capitola Standard Drawings
6. Driveway Conform specified on the plans

Measurement and Payment- The contract unit price paid per linear foot for “Minor Concrete (Curb and Gutter)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals