

CITY OF TORRANCE, CALIFORNIA

ADDENDUM NO. 1

Issued: August 29, 2014

TO

**PROPOSAL, SPECIFICATIONS, BOND AND
AFFIDAVIT FOR THE CONSTRUCTION
OF
PALOS VERDES BOULEVARD REHABILITATION, I-121
B2014-42**

Note the following changes and/or additions to the Plans and Specifications for the project indicated above. The bidder shall execute the Certification at the end of this addendum, and shall **attach all pages of this addendum to the Contract Documents submitted with the Bid**. In addition, the bidder shall complete and submit the "Acknowledgment of Addenda Received" Form provided in Section C of the Specifications.

1. **Refer to attached Plans which are also posted on the project website at <http://www.torranceca.gov/24008.htm>**
 - a. The plan for City of Redondo Beach Project #40650 has been added to the Palos Verdes Boulevard Rehabilitation Project I-121 as sheets 1-4 of Project #40650 for the City of Redondo Beach.
 - b. Revisions have been made to sheet 14 of the Palos Verdes Boulevard Rehabilitation, I-121 plan ST-1055. Revision one (1) is the deletion of Note 4 as shown on the attached revised sheet 14. Revision two (2) is a reference to the plan for City of Redondo Beach Project #40650.
 - c. The plan for the Hollywood Riviera sign has been added to the Palos Verdes Boulevard Rehabilitation Project I-121 as sheet A1-A3 "Friends of the Riviera Monument Sign at Via Monte D'Oro"
2. **Refer to Specifications page A-1, Notice Inviting Bids** and any independent identical copy of the Notice Inviting Bids either posted on the City's project website at <http://www.torranceca.gov/24008.htm> or published in the Daily Breeze.

In paragraph 6, the first sentence is hereby revised as follows:

"The Engineer's estimate of the contract total is between ~~\$2,600,000~~ and ~~\$2,740,000~~ \$2,770,000 and \$3,050,000."

3. **Refer to pages C-1, through C-11 of the Bidder's Submittal document on blue-colored paper included with the Contract Documents.**

- a. Enclosed with this addendum are new bid items to be added after page C-9 as pages C-9A, and C-9B, to include the quantities from plans added and referenced as Project #40650 for the City of Redondo Beach. The bidder shall include the bid items (43.1 through 43.16) on pages C-9A and C-9B to its TOTAL BASE BID PRICE on page C-10.
- b. Enclosed with this addendum is BID ALTERNATE A3 for new bid items related to the Hollywood Riviera sign. The bidder shall include a completed BID ALTERNATE A3 bid price with its Bidder Submittal.

4. **Refer to SECTION E, Special Provisions.**

- a. The attached specifications entitled SECTION E, ADDENDUM #1, SPECIAL PROVISIONS, are hereby added to the specifications to include the added work on Redondo Beach Project #40650 plans.
- b. The attached specifications entitled SPECIFICATIONS, FRIENDS OF THE RIVIERA MONUMENT SIGN AT VIA MONTE D'ORO, are hereby added to the specifications to include the added work listed in Bid Alternate A3.

5. **Refer to Section 302-5.14 Crack Routing and Sealing: Preparation for Paving**

In paragraph 4, part 1, the section is hereby revised as follows:

- 1. Poly Flex sealant when heated in accordance with ASTM D~~3407~~ **5078** shall have the following characteristics:

Test	Limits
Cone Penetration (ASTM D 3407 5329)	15 – 45
Resilience (ASTM D 3407 5329)	30% Min.
Softening Point (ASTM D36)	200° F Min.
Ductility, 77° F (ASTM D113).....	30 cm Min.
Flexibility (Crafco Procedure ASTM D3111)	Pass as 30° F
Asphalt Compatibility (ASTM D 3407 5329).....	Pass
Bitumen Content (ASTM D4)	60% Min.
Tensile Adhesion (ASTM D 3583 5329).....	500% Min.
Safe Heating Temperature	400° F
Recommended Pour Temperatures.....	380° F
Brookfield Viscosity 375° F (ASTM D 3236 2669).....	4000 – 15000 cp
Unit Weight at 60° F	10.0 lbs./gal.

6. **Refer to Section 302-14.3 Materials**

Part 3) Laboratory Evaluation, paragraph 2 is revised as follows:

Softening Point (R&B) ~~435~~ **200° F Min. (ASTM D~~342~~ D36)**

7. Refer to Special Provisions Section 302-14.4 Measurement and Payment on page 81

Paragraph 1 is hereby deleted in its entirety and replaced with:

Payment shall be per 302-5.14 Crack Routing and Sealing: Preparation for Paving

By Order of the City Engineer



CRAIG BILEZERIAN
City Engineer

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained therein.

Bidder

By

Date

****** Submit this executed form with the bid ******

**Please fill out and submit the
"Acknowledgment of Addenda Received" form
provided in Section C of the Specifications.**

BIDDER'S SUBMITTAL (continued)

B2014-42

**ADDED TO BASE BID SCHEDULE FOR REDONDO BEACH PLAN,
PROJECT NO. 40650**

Item No.	Approx. Qty	Unit of Measure	Item Description	Section	Unit Price	Total Bid
43.1	1	LS	Traffic Control and Construction Phasing, City of Redondo Beach Project #40650	7-10.2.4 (Addendum #1)	\$	\$
43.2	1	EA	Remove Existing and Construct New Catch Basin, W=14', t=6", V=5'-3" +/- (Match Existing).	306-1.6.2 (Addendum #1)	\$	\$
43.3	80	SF	Remove Existing and Construct 8" PCC Local Depression over 6" CMB	306-1.6.2 (Addendum #1)	\$	\$
43.4	530	SF	Remove Existing and Construct 8" PCC Alley Approach with Curb and Gutter over Native at 95% Compaction	303-5.18 (Addendum #1)	\$	\$
43.5	10	LF	Remove Existing and Construct PCC Curb and 2 Foot Gutter over 6" CMB	303-5.19 (Addendum #1)	\$	\$
43.6	55	LF	Remove Existing and Construct PCC Curb & 1-1/2 Foot Gutter over 6" CMB	303-5.20 (Addendum #1)	\$	\$
43.7	3	EA	Remove Existing and Construct PCC Curb Access Ramp with 3'x4' Detectable Warning Surface over 3" CMB	303-5.21 (Addendum #1)	\$	\$
43.8	250	SF	Remove and Reconstruct Existing Brick Pavers over 2" Sand	303-5.22 (Addendum #1)	\$	\$
43.9	1950	SF	Remove Existing and Construct New Brick Pavers over 2" Sand over 6" CMB	303-5.23 (Addendum #1)	\$	\$
43.10	1400	SF	Cold Milling in Preparation for Paving	302-1.12	\$	\$

43.11	50	TON	AC Pavement	302-5.11.1 (Addendum #1)	\$	\$
43.12	2	EA	Adjust Utility Access Cover to Grade	302-5.8.2	\$	\$
43.13	1	LS	Signing and Striping, Complete in Place	Section 315 (Addendum #1)	\$	\$
43.14	1	LS	Landscape & Irrigation, Complete in Place	Section 308-9 (Addendum #1)	\$	\$
43.15	1	LS	Lighting, Complete in Place	Section 86-8.01.2 (Addendum #1)	\$	\$
43.16	15	LF	Construct PCC Mow Curb	303-5.24 (Addendum #1)	\$	\$

ADD THESE TOTALS TO TOTAL BASE BID PRICE ON PAGE C-10 OF BIDDER'S SUBMITTAL

BID ALTERNATE A3

Item No.	Approx. Qty	Unit of Measure	Item Description	Section of SPECIFICATIONS, FRIENDS OF THE RIVIERA MONUMENT SIGN AT VIA MONTE D'ORO	Unit Price	Total Bid
A3.1	1	LS	Monument Sign with Aggregate Base, Reinforcement, Anti-Graffiti Coating, Cast in Place Letters Complete in Place	A3.1	\$	\$
A3.2	1	LS	PCC Mow Strip	A3.2	\$	\$
A3.3	1	LS	Irrigation Modifications Complete in Place	A3.3	\$	\$
A3.4	1	LS	Quick Connect Coupler Complete in Place	A3.4	\$	\$
A3.5	1	LS	Landscape Restoration	A3.5	\$	\$

Bid Alternate A3 will not be included in the determination of the lowest qualified bid.

TOTAL BID ALTERNATE A3: \$ _____
(In Figures)

TOTAL BID ALTERNATE A3: \$ _____
(Words)

SECTION E
Addendum #1
SPECIAL PROVISIONS

Add the following to the referenced sections of the Special Provisions:

2-9.5 – Payment

Add the following:

Full compensation for construction surveying as specified shall include work in the City of Redondo Beach Project #40650 Plans.

7-8.6.2– Best Management Practices (BMPs)

Add the following:

Full compensation for the implementation of BMPs, as specified, shall include work in the City of Redondo Beach Project #40650 Plans.

7-10.2 Work Area Traffic Control

Add the following subsection:

7-10.2.4 – Traffic Control and Construction Phasing, City of Redondo Beach Project #40650

At least 5 working days prior to commencing work related to City of Redondo Beach Project #40650, the Contractor shall submit its construction schedule to the Agency for approval. Based upon the construction schedule, the Contractor shall notify residents and businesses of the work and post temporary “No Parking” signs. Requests for changes in the schedule shall be submitted by the Contractor to the Engineer for approval at least 72 hours prior to the scheduled paving of the streets affected.

The Contractor shall be responsible for adequate barricading of the work area and controlling of traffic in the vicinity of the project as specified in 7-10 in the Standard Specifications or as directed by the Engineer.

Prior to construction, the Contractor shall submit to the Engineer for approval, a traffic control plan. This plan shall include, but not be limited to, location of all signs and barriers and proposed traffic flow diagrams. The information shall include the minimum requirements of the State of California Manual of Uniform Traffic Control Devices (MUTCD), latest edition.

The Contractor shall furnish at his expense and with no extra cost to the CITY such flagmen and guards as are necessary to give adequate warning to the public that roadway work is underway and of any dangerous conditions to be encountered. Flagmen shall perform their duties and be provided with equipment in accordance with current "Instructions to Flagmen" of the State of California, Division of Highways. The equipment shall be furnished, kept clean and in good repair by the Contractor at his own expense. The Contractor shall furnish, erect, maintain and regularly inspect barricades, lights, signs and other devices as are necessary to prevent accidents and avoid damage or injury to the public. These devices shall conform to the requirements set forth in the State of California Manual of Uniform Traffic Control Devices (MUTCD), latest edition.

Closures and parking restrictions shall only be made for the amount of time necessary to complete construction activities. Areas that do not have active construction work shall be secured and reopened as directed by the Engineer. Extents of closures and parking restrictions shall be limited to areas as necessary for immediate construction activities.

The Contractor's operations shall cause no unnecessary inconvenience. The access rights of the public shall be considered at all times. Unless otherwise authorized, traffic shall be permitted to pass through the Work, or an approved detour shall be provided.

Should the Contractor appear to be neglectful or negligent in furnishing warning and protective measures, the Engineer may direct the Contractor's attention to the existence of such hazards. The Contractor shall provide all necessary warning and protective measures immediately, at his expense. Whether the Engineer points out the inadequacy of warning and protective measures or not, such action, or lack of action, on the part of the Engineer shall not relieve the Contractor from the responsibility for public safety or abrogate his obligation to furnish and pay for safety measures and devices. If attention is directed to the existence of a hazard, and the Contractor fails to provide an appropriate remedy, any expense incurred by the CITY for furnishing or maintaining safety measures and devices may be deducted from the pay estimates and the total contract price for the work.

Safe and adequate pedestrian and vehicular access shall be provided and maintained to: fire hydrants; commercial and industrial establishments; churches, schools, and parking lots; service stations and motels; hospitals; police and fire stations; and establishments of similar nature. Access to these facilities shall be continuous and unobstructed unless otherwise approved by the Engineer.

Safe and adequate pedestrian zones and public transportation stops, as well as pedestrian crossings of the Work at intervals not exceeding 90m (300 feet), shall be maintained unless otherwise approved by the Engineer.

Traffic maintenance shall conform to the provisions in Section 7-10 "Public Convenience and Safety" of the Standard Specifications and these Special Provisions (and as shown in the drawings).

Vehicular access to residential driveways shall be maintained to the property line except when necessary construction precludes such access for reasonable periods of time. If backfill has been completed to the extent that safe access may be provided, and the street is opened to local traffic, the Contractor shall immediately clear the street and driveways and provide and maintain access.

The Contractor shall cooperate with the various parties involved in the delivery of mail and the collection and removal of trash and garbage to maintain existing schedules for these services.

Grading operations, roadway excavation and fill construction shall be conducted by the Contractor in a manner to provide a reasonably satisfactory surface for traffic. When rough grading is completed, the roadbed surface shall be brought to a smooth, even condition satisfactory for traffic.

Unless otherwise authorized, work shall be performed in only one-half the roadway at one time. One half shall be kept open and unobstructed until the opposite side is ready for use. If one-half a street only is being improved, the other half shall be conditioned and maintained as a detour.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.1 - Traffic Control and Construction Phasing, City of Redondo Beach Project #40650 per Lump Sum (LS). Payment shall include all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

9-3.4 – MOBILIZATION

Add the following:

Full compensation for mobilization as specified shall include work in the City of Redondo Beach Project #40650 Plans.

300-1.4 Payment

Add the following:

g) Incidental Work

Clearing and grubbing, miscellaneous landscape trimming, minor removals and demolition shall be included as incidental in all work items requiring such, and no additional compensation will be allowed.

300-2 – UNCLASSIFIED EXCAVATION

Add the following:

General: Unclassified excavation shall consist of all excavation, including roadway, bituminous pavement, base material, and native material.

Removal of Bituminous Pavement: Bituminous pavement shall be removed to neatly sawed edges. Saw cuts shall be to a minimum depth of 3 inches. Where bituminous pavement adjoins a trench, the edges adjacent to the trench shall be saw cut to neat straight lines before permanent to ensure that all areas to be paved are accessible to the rollers used to compact the sub grade or paving materials. Removal at flow line areas shall include restoring pavement surface to flow line grade based on surrounding conditions.

The Contractor shall utilize appropriate equipment to excavate to grade.

Existing utilities are not marked out. The Contractor shall be responsible for USA DigAlert notification, locating and determining the depths of all utilities and to provide adequate clearance. No additional compensation shall be allowed for utility research.

Removal of Concrete Curb, Gutter, Sidewalks, Cross Gutters, Driveways and Access Ramps:

Concrete shall be removed to neatly sawed edges. Concrete sidewalk, access ramps or driveways to be removed shall be neatly sawed in straight lines either parallel to the curb or at right angles to the alignment of the sidewalk. No section to be replaced shall be smaller than 30 inches in either length or width. If the saw cut would fall within 30 inches of a construction joint, functional weakened plane joint, expansion joint or edge, the concrete shall be removed to the joint or edge. In any case, the saw cut shall be made in and along a score mark if within the 30-inch zone. Curb and gutter shall be sawed on a neat line at right angles to the curb face. **Removal of all PCC items and the base shall be paid under their respective bid items, and no additional payment shall be made therefor.**

All roots found within excavation area shall be removed per subsection 300-6.2 of the Standard Specifications. The Contractor shall coordinate all root removals with the City Arborist.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be measured and paid for per the Contract Unit Price for various bid items, and shall include all removals, hauling, and disposal of existing materials as necessary to complete the work. No additional payment shall be made therefor.

302-1.12 Payment

Add the following:

Cold milling shall remove a section of AC pavement to provide an evenly roughened and planar surface in preparation for overlay of asphalt concrete pavement.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.10- COLD MILLING IN PREPARATION FOR PAVING per Square Foot (SF). Payment shall include all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

302-5 ASPHALT CONCRETE PAVEMENT

Add the following subsection:

302-5.11.1 AC Pavement and AC slot patch for Redondo Beach Project #40650

The Contractor shall remove existing improvements, including subgrade and base and construct asphalt concrete pavement as shown per City of Redondo Beach Project #40650 Plans and as directed by the Engineer. Asphalt pavement shall be type C2 PG 64-10 conforming to the provisions of subsection 203-10 of the Standard Specifications, 2" pavement minimum over existing soil.

Work shall include grading proposed surface to join existing or proposed edge of gutter and concrete; and shall match existing adjacent paved surface elevations. Transitions shall provide for smooth joins and transitions from new construction to existing improvements, without any vertical disruptions or abrupt angular changes.

AC Slot Patch: The Contractor shall remove existing improvements, including subgrade and base and construct asphalt concrete pavement slot patch as shown per City of Redondo Beach Project #40650 plan or as directed by the Engineer. Asphalt Concrete for slot patch shall be Type B PG 64-10 conforming to the provisions of subsection 203-10 of the Standard Specifications, installed prior to final overlay. Placement and elevation of slot patch shall account for subsequent overlay placement thicknesses. The viscosity grade of paving asphalt shall be PG 64-10 per Section 92 – "Asphalt" of the State Standard Specifications or as determined by the Engineer. AC Slot patch shall be full depth asphalt, 6" minimum thickness. All joins shall be sawcut, and edges applied with Tack Coat.

The provisions in Section 400-4.2.2 "Aggregate" of the Standard Specifications shall have the following additional requirement:

At least 75 percent, by weight, of the material retained on the No. 4 sieve shall have at least one fractured face as determined by California Test Method No. 205.

Paint binder (tack coat) shall be SS-1h Type asphaltic emulsion conforming to Section 203.3 of the Standard Specifications.

Tarpaulins shall be used to cover all loads from plant to project. Any material that arrive onsite with temperature outside the allowable range per the SSPWC will be rejected.

Paint binder (tack coat) shall be applied to all vertical surfaces to be joined or as directed by the Engineer. Paint binder (tack coat) shall be applied at the rate of 0.10 gallons per square yard conforming to the provisions of Section 302-5.4 of the Standard Specifications.

Distribution, spreading and compacting shall conform to the provisions of Section 302-5 of the Standard Specifications and these Special Provisions.

Rolling equipment shall consist of one 12-ton, 2 axle tandem roller for each 50 tons, or fraction thereof, of asphalt concrete placed per hour by each asphalt paver. The use of three-wheel rollers and pneumatic rollers shall not be permitted.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section, including AC Slot Patch, shall be included in the contract bid price for Bid Item No. 43.11 - AC PAVEMENT per Ton (TON), which shall include full compensation for excavation, hauling and backfill, furnishing all labor, materials, paint binder (tack coat), tools, equipment and incidentals and for doing all of the work involved in constructing asphalt concrete pavement complete in place as shown on the plans and specified in these Special Provisions, and no additional compensation will be allowed. Weight certification tickets are required for payment.

Add the following section:

303-5.18 – Alley Approach

The Contractor shall remove existing improvements and construct 8" thick PCC alley approach with flush (0") curb and 2' gutter over existing soil at 95% compaction as shown per plan, and shall comply with Subsection 303-5 of the Standard Specifications. **Concrete shall be 520-C-3250.**

The Contractor shall sawcut and remove existing improvements including pavement, base, subgrade, and other in-place materials as necessary for construction prepare the subgrade; and construct PCC alley approach, curb and gutter where noted and as shown per detail drawings. New concrete improvements shall match existing finish and

pattern as directed. Contractor shall coordinate with utility companies for utility adjustments as needed when constructing the work.

All PCC work must drain to grade and must pass water test. Transitions shall provide for smooth joins and transitions from new construction to existing improvements, without any vertical disruptions or abrupt angular changes.

The Contractor shall install steel plates over driveways or otherwise maintain access where there is open excavation or curing concrete. Payment for provision, installation, maintenance, and removal of steel plates shall be included in the bid item for this section.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.4- REMOVE EXISTING AND CONSTRUCT 8" PCC ALLEY APPROACH WITH CURB AND GUTTER OVER NATIVE AT 95% COMPACTION per Square Foot (SF) **including curb and gutter**, which shall include full compensation for excavation, hauling and backfill, furnishing all labor, materials, tools, equipment and incidentals and for doing all of the work involved in constructing PCC improvements complete in place as shown on the plans and specified in these Special Provisions, and no additional compensation will be allowed.

Add the following section:

303-5.19 PCC Curb and 2' Gutter

The Contractor shall remove existing improvements and construct a PCC curb & 2 foot gutter over 6" CMB as shown per City of Redondo Beach Project #40650 plan, and shall comply with Subsection 303-5 of the Standard Specifications. **Concrete shall be 520-C-3250.**

The Contractor shall sawcut and remove existing improvements including pavement, base, subgrade, and other in-place materials as necessary for construction, prepare the subgrade; place base; and construct PCC curb and gutter where noted and as shown per detail drawings. New concrete improvements shall match existing finish and pattern as directed. Contractor shall coordinate with utility companies for utility adjustments as needed when constructing the work.

All PCC work must drain to grade and must pass water test. Transitions shall provide for smooth joins and transitions from new construction to existing improvements, without any vertical disruptions or abrupt angular changes.

Except as specifically noted, no separate payment shall be made for crushed miscellaneous base (CMB). CMB shall be fine grade (3/4"). CMB shall be compacted to 95% relative compaction per Greenbook requirements. Unless noted otherwise, CMB

will be considered as included in payment for the bid items, and no separate payment will be made therefore.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.5- REMOVE EXISTING AND PCC CURB & 2 FOOT GUTTER OVER 6" CMB per Linear Foot (LF), which shall include full compensation for excavation, hauling and backfill, furnishing all labor, materials, tools, equipment and incidentals and for doing all of the work involved in constructing PCC improvements complete in place as shown on the plans and specified in these Special Provisions, and no additional compensation will be allowed.

Add the following section:

303-5.20 PCC curb and 1-1/2 Foot Gutter

The Contractor shall remove existing improvements and construct a PCC curb & 1-1/2 foot gutter over 6" CMB as shown per City of Redondo Beach Project #40650 plan, and shall comply with Subsection 303-5 of the Standard Specifications. **Concrete shall be 520-C-3250.**

The Contractor shall sawcut and remove existing improvements including pavement, base, subgrade, and other in-place materials as necessary for construction prepare the subgrade; place base; and construct PCC curb and gutter where noted and as shown per detail drawings. New concrete improvements shall match existing finish and pattern as directed. Contractor shall coordinate with utility companies for utility adjustments as needed when constructing the work.

All PCC work must drain to grade and must pass water test. Transitions shall provide for smooth joins and transitions from new construction to existing improvements, without any vertical disruptions or abrupt angular changes.

Except as specifically noted, no separate payment shall be made for crushed miscellaneous base (CMB). CMB shall be fine grade (3/4"). CMB shall be compacted to 95% relative compaction per Greenbook requirements. Unless noted otherwise, CMB will be considered as included in payment for the bid items, and no separate payment will be made therefore.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.6- REMOVE EXISTING AND PCC CURB & 1-1/2 FOOT GUTTER OVER 6" CMB per Linear Foot (LF), which shall include full compensation for excavation, hauling and backfill , furnishing all labor, materials, tools, equipment and incidentals and for doing all of the work involved in constructing PCC improvements complete in place as shown on the plans and specified in these Special Provisions, and no additional compensation will be allowed.

Add the following section:

303-5.21 Curb Access Ramp with Detectable Warning Surface

The Contractor shall remove existing improvements and construct a PCC Curb Access Ramp over 3" CMB as per City of Redondo Beach Project #40650 plan, and shall comply with Subsection 303-5 of the Standard Specifications. **Concrete shall be 520-C-2500.**

The Contractor shall sawcut and remove existing improvements including pavement, base, subgrade, and other in-place materials as necessary for construction prepare the subgrade; place base; and construct curb access ramp where noted and as shown per detail drawings. New concrete improvements shall match existing finish and pattern as directed. Contractor shall coordinate with utility companies for utility adjustments needed when constructing the work.

It shall be the Contractor's responsibility to install curb access ramps in strict compliance with the curb ramp details found in the APWA Standard Plan Section 111-5 which identifies maximum grades and specific dimensions.

The Contractor shall verify, with a "smart level", that maximum ramp and sidewalk grades do not exceed ADA requirements when marking the required saw cut removal limits and when setting the concrete forms, prior to pouring any curb ramp locations. It shall be the Contractor's responsibility to supervise and utilize the proper experienced personnel to ensure that the proper saw cut limits are established for all access ramp locations and the City's Representative shall not be responsible to direct the Contractor's crews or otherwise serve in this management capacity.

Integral retaining curbs shall be constructed at the back of curb ramps as necessary to match existing landscape grades. Retaining curbs shall be included in this bid item.

Curb access ramps and sidewalks shall meet all ADA requirements, and shall not create impediments to access. Curb access ramp features shall include:

- border grooves to signify change in grade
- ramps not exceeding 1:12 slope
- side ramps not exceeding 1:10 slope
- turning pads of 4'x4' minimum area and 2% cross slope maximum
- cross slopes 2% maximum
- bottom of ramps to be flush to gutters
- integral retaining curbs as necessary to match to existing landscape grades
- 3'x4' truncated dome surfaces at the bottom of the ramp adjacent to the street

Curb access ramps are not to be monolithic with curb & gutter unless otherwise directed by engineer.

Crushed miscellaneous base shall be included as incidental in all work items requiring such, and no additional compensation will be allowed.

All PCC work must drain to grade and must pass water test.

CAST IN PLACE DETECTABLE WARNING SURFACE

Work shall include furnishing and installing a cast in place tactile tile module with new concrete curb ramps.

Materials For Cast-In-Place – Detectable warning surface shall be 3' x 4' Vitrified Polymer Composite (VPC) Cast-In-Place Tactile Armor-Tile manufactured by Engineered Plastics Inc. (800.682.2525) or approved equal. **The tile shall be Dark Gray color.** Installation shall be in accordance with manufacturer requirements.

Construction for Cast-In-Place Detectable Warning Surface –

- A. During all concrete pouring and tile installation procedures, ensure adequate safety guidelines are in place and that they are in accordance with the applicable industry and government standards.
- B. The physical characteristics of the concrete shall be consistent with the contract specifications while maintaining a slump range of 4" – 7" to permit solid placement of the Cast-In-Place Tile System. An overly wet mix will cause the Cast-In-Place System to float, therefore under these conditions suitable weights such as 2 concrete blocks or sandbags (25 lbs) shall be placed on each tile. **Ensure that there are no voids under the tile surface.**
- C. Prior to placement of the Cast-In-Place System, the contract drawings shall be reviewed by the Engineer.
- D. The concrete pouring and finishing operations require typical mason's tools, however, a 4' long level with electronic slope readout, 25 lb weights, vibrator and small sledge hammer with 2" x 6" x 20" wood tamping plate are specific to the installation of the Cast-In-Place System.
- E. The concrete shall be poured and finished, true and smooth to the required dimensions and slope prior to tile placement. Immediately after finishing the concrete, the electronic level should be used to check that the required slope is achieved. The tile shall be placed true and square to the curb edge in accordance with the contract drawings. The Cast-In-Place Tiles shall be tamped or vibrated into the fresh concrete to ensure that the field level of tile is flush to the adjacent concrete surface.
- F. While concrete is workable a steel trowel shall be used to trowel the concrete around the tile perimeter of the field level of the tile.

- G. During and after the tile installation and the concrete curing stage, it is imperative that there is no walking, leaning or external force placed on the tile to rock the tile, causing a void between the underside of the tile and concrete.
- H. Following tile placement, review installation tolerances to contract drawings and adjust tile before the concrete sets, 2 suitable weights of 25 lbs each shall be placed on each tile as necessary to ensure solid contact of tile underside of concrete.
- I. Following the curing of the concrete, the protective plastic wrap is to be removed from the tile face by cutting the plastic with a sharp knife tight to the concrete/tile interface. If concrete bleeding occurs, a wire brush will clean the residue without damage to the tile surface.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.7- REMOVE EXISTING AND CONSTRUCT PCC CURB ACCESS RAMP WITH 3' X 4' DETECTABLE WARNING SURFACE OVER 3" CMB will be at contract unit price per each (EA) and shall include full compensation for excavation, hauling and backfill, furnishing all labor, materials, tools, equipment and incidentals to construct PCC handicap ramps and associated curbs, curb and gutter, adjacent sidewalk, detectable warning surface, and to furnish and place Portland cement concrete, complete in place as shown on the plans and specified in these Special Provisions, and no additional compensation will be allowed.

Add the following section:

303-5.22 – REMOVE AND RECONSTRUCT EXISTING BRICK PAVERS OVER 2" SAND

The Contractor shall remove existing and reconstruct the existing brick pavers to the limits shown on City of Redondo Beach Project #40650 Plans and as directed by the Engineer in the field. Existing brick pavers shall be placed over 2" sand, reset to proposed finish grade and match existing surface.

Work must drain to grade and must pass water test. Transitions shall provide for smooth joints and transitions from new construction to existing improvements, without any vertical disruptions or abrupt angular changes.

Payment – Payment for reconstructing existing brick pavers shall be paid at the contract unit price per Square Foot (SF) for Bid Item No.43.8- REMOVE AND RECONSTRUCT EXISTING BRICK PAVERS OVER 2" SAND and shall be considered full compensation for all labor, materials; including pavers, sand base, tools, equipment and incidentals to accomplish the work as specified herein and no additional compensation will be allowed.

Add the following section:

303-5.23 – REMOVE AND CONSTRUCT NEW BRICK PAVERS OVER 2” SAND OVER 6” CMB

The Contractor shall remove existing and construct new brick pavers to the limits shown on City of Redondo Beach Project #40650 Plans and as directed by the Engineer in the field. New pavers shall be placed over 2” sand over 6” CMB, and must meet current ADA requirements.

Brick Pavers shall be Holland Stone 1, Cobblestone pattern, Desert Blend color.

Work must drain to grade and must pass water test. Transitions shall provide for smooth joins and transitions from new construction to existing improvements, without any vertical disruptions or abrupt angular changes.

Payment – Payment for constructing new brick pavers shall be paid at the contract unit price for Bid Item No. 43.9- REMOVE EXISTING AND CONSTRUCT NEW BRICK PAVERS OVER 2” SAND OVER 6” CMB and shall be considered full compensation for all labor, materials; including pavers, sand base, CMB, tools, equipment and incidentals to accomplish the work as specified herein and no additional compensation will be allowed.

Add the following section:

303-5.24 PCC MOW CURB

The Contractor shall remove existing and construct 6” wide x 6” deep PCC mow curb where shown on City of Redondo Beach Project #40650 plans and as directed by the Engineer in the field, and shall comply with Subsection 303-5 of the Standard Specifications. **Concrete shall be 520-C-3250.**

The Contractor shall sawcut and remove existing improvements including pavement, base, subgrade, and other in-place materials as necessary for construction, prepare the subgrade; and construct PCC mow curb where noted and as shown per detail drawings. New concrete improvements shall match existing finish and pattern as directed. Contractor shall coordinate with utility companies for utility adjustments as needed when constructing the work.

All PCC work must drain to grade and must pass water test. Transitions shall provide for smooth joins and transitions from new construction to existing improvements, without any vertical disruptions or abrupt angular changes.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.16 - CONSTRUCT PCC MOW CURB per Linear Foot (LF), which shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all of the work involved in constructing PCC improvements complete in place as shown on the plans and specified in these Special Provisions, and no additional compensation will be allowed.

306-1.6.1 Basis of Payment for Storm Drain Improvements

Add the following subsection:

306-1.6.2 Basis of Payment for Storm drain improvements in the City of Redondo Beach Project #40650.

The Contractor shall remove existing and construct **new catch basin** in accordance with the Redondo Beach Project #40650 Plans, Sections 303 and 306-1.2 of the Standard Specifications & applicable portions of these specifications and SPPWC 300. New construction shall match to existing pipe dimensions and elevations, and shall align to and match new curb & gutter improvements.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item 43.2- REMOVE EXISTING AND CONSTRUCT NEW CATCH BASIN, W=14', t=6", V=5'-3"+/- (MATCH EXISTING) per Each (EA). Payment shall include excavation, hauling and backfill, all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

The Contractor shall remove existing and construct **PCC local depression** as shown per Plans, and shall comply with Subsection 303-5 of the Standard Specifications. The Contractor shall sawcut and remove existing improvements including pavement, base, subgrade, and other in-place materials as necessary for construction; prepare the subgrade; place base; and construct PCC depression where noted and as shown per Plans. **Concrete shall be 520-C-3250.**

New concrete improvements shall match existing finish and pattern as directed, and shall align to and match existing and new curb & gutter improvements.

All PCC work must drain to grade and must pass water test. Transitions shall provide for smooth joins and transitions from new construction to existing improvements, without any vertical disruptions or abrupt angular changes.

Except as specifically noted, no separate payment shall be made for crushed miscellaneous base (CMB). CMB shall be fine grade (3/4"). CMB shall be compacted to 95% relative compaction per Greenbook requirements. Unless noted otherwise, CMB

will be considered as included in payment for the bid items, and no separate payment will be made therefore.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid item 43.3- REMOVE EXISTING AND CONSTRUCT 8" PCC LOCAL DEPRESSION OVER 6" CMB per Square Foot (SF), which shall include full compensation for excavation, hauling and backfill, furnishing all labor, materials, tools, equipment and incidentals and for doing all of the work involved in constructing PCC improvements complete in place as shown on the plans and specified in these Special Provisions, and no additional compensation will be allowed.

SECTION 307- STREET LIGHTING AND TRAFFIC SIGNAL SYSTEMS

Add the following subsection:

86-8.01.2 Payment for Lighting, Complete in Place for City of Redondo Beach Project #40650

The contract bid item for Lighting related to the City of Redondo Beach Project #40650 plan shall include all labor, equipment, materials, incidentals, and work necessary to install new lighting, complete in place. The Contractor shall install tree well uprights, new electrical pull box and electrical wiring as shown on Plans and as directed by Engineer in the field. The contractor shall coordinate with utility company to connect new electrical system to the existing street light circuit. All new electrical system shall be installed to City of Redondo Beach Standards and requirements.

New electrical system shall be controlled by photocell. Lighting and new electrical materials shall be per the Material Table and detail drawings. New conduits shall be ½" schedule-40, encased in 3" schedule-40 sleeves, new electrical pull box shall be Christy No. 9, and ground service upright shall be Dabmar FG4450.

The Contractor shall ensure that the new electrical system is reviewed and tested and in proper working condition.

Trench excavation and backfill shall be in accordance with the City of Redondo Beach Project #40650 Plans and SSPWC Section 307-7.1 and 307-7.2.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.15 LIGHTING, COMPLETE IN PLACE per Lump Sum (LS). Payment shall include excavation, hauling and backfill, all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

SECTION 308- LANDSCAPE AND IRRIGATION INSTALLATION

Add the following subsection:

308-9 Landscape and Irrigation Complete in Place for Redondo Beach Project #40650

Landscape:

The Contractor shall install planters and landscaping as specified on the City of Redondo Beach Project #40650 Plans. Materials shall be in accordance with the Material Table and Details shown on Plans.

Trees shall be Phoenix Dacitylifera (Date Palm). The Contractor shall plant trees where specified and per details as shown on Plans. All trees shall be inspected and approved by the City prior to installation. Trees that appear to be unhealthy, undersized, root bound, or otherwise deficient shall be rejected. The Contractor shall provide maintenance of the trees throughout construction and until final payment after the Notice of Construction has been posted. Any trees found deficient at that time are subject to rejection and replacement.

Irrigation:

The Contractor shall install new irrigation system improvements as per City of Redondo Beach Project #40650 Landscape and Irrigation Plans. The Contractor shall coordinate with Cal Water to install new water meter for the irrigation system, and shall connect the new system to the new water meter.

New water lines shall be schedule-40 PVC, encased in schedule-40 PVC sleeves. Size shall be as shown per detail drawings.

All new irrigation shall be installed to City of Redondo Beach Standards and requirements. The Contractor shall ensure that the new irrigation system is reviewed and tested and in proper working condition. The irrigation system shall include connection to existing water meter, valves, backflow preventer, controller, enclosures, spray heads, master valve, and all other materials and components as required per plans for a complete operating irrigation system.

Maintenance:

The Contractor shall provide ninety (90) days of site maintenance and establishment services after final approval and acceptance of construction. Site maintenance and establishment shall include all services necessary to maintain and establish the site irrigation and landscaping, and shall include at a minimum:

- Weekly site inspection of irrigation system condition and operation
- Adjustment of spray heads as needed
- Replacement of broken or failed parts
- Resetting of anchors
- Weekly site inspection of plants.
- Cleanup of site trash, dead vegetation, and other debris
- Pruning or replacement of landscaping as needed
- Treatment for diseases or pest as needed
- Monitoring of irrigation controller operation and water usage
- Cleaning of irrigation controller solar panels

The Contractor shall submit a weekly site assessment report to City staff. Report shall note all items inspected, conditions, and any action items performed. City staff shall inspect the site and determine compliance with this section.

Landscape and Irrigation Restoration:

The Contractor shall replace any landscaping or irrigation which has been broken or damaged due to construction activities. Any landscaping, damaged due to activities of the contractor, lack of protection by the contractor, or as a result of the construction work, shall be replaced to the satisfaction of the City's Engineer.

Any sprinkler system damaged during the Contract shall be repaired by the Contractor at no additional cost within 24 hours of notification. All damaged sprinkler and irrigation parts shall be replaced in-kind. If repair is not completed within said limit, the City shall have the authority to complete such work and deduct cost plus 20 percent administration thereof from any moneys due or to become due to the Contractor. Furthermore, a penalty of \$500 per day shall be applied for each day beyond the 24-hour period that the damaged irrigation system has not been repaired to function properly (as determined by the City's inspector).

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.14- LANDSCAPE & IRRIGATION, COMPLETE IN PLACE per Lump Sum (LS). Payment shall include excavation, hauling and backfill, all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

Add the following section:

Section 315- Signing and Striping Complete in Place for City of Redondo Beach Project #40650

The contract bid item 43.13 for Signing and Striping, Complete in Place shall include all labor, equipment, materials, incidentals, and work necessary to install striping,

markings, and signs complete in place in areas covered by the City of Redondo Beach Project #40650.

PERMANENT ROADWAY SIGNING

Signs shall conform to the provisions in Section 56, "Signs," of the State Standard Specifications, the State Specifications for Reflective Sheeting on Aluminum Signs, the State Specifications for Aluminum Single-Sheet and Laminated-Panel Signs and these Special Provisions and as directed by the Engineer.

The Work to be done hereunder consists of furnishing and installing signs, sign posts, re-posting existing signs, and replacing existing sidewalks where removed for sign post installation.

Signs shall be installed in accordance with City of Redondo Beach requirements.

PAVEMENT MARKERS, MARKINGS, AND TRAFFIC STRIPING

Section 214, "Traffic Striping, Curb and Pavement Markings and Pavement Markers," Subsection 314-4, "Application of Traffic Striping and Curb and Pavement Markings," and Section 314-3, "Removal of Pavement Markers" and 314-5, "Pavement Markers," of the Standard Specifications are supplemented by the following:

The Contractor shall reinstall any existing striping and curb markings obliterated by new construction, as added or directed by the Engineer, and whether or not shown on the Plans for replacement. Payment shall be considered as included in the unit prices bid for various items of Work, and no additional payment will be made therefore.

The Contractor shall remove markers, markings, and striping where necessary to adjust the configuration of existing striping to new striping. The Contractor shall remove markers flush with existing pavement. The Contractor shall remove markings and striping by wet sandblasting.

Paving damaged due to the removal of raised pavement markers shall be repaired to the satisfaction of the City Engineer.

New striping and markings shall be thermoplastic.

The Contractor shall furnish to the Engineer samples of materials not less than 3 weeks in advance of the date the materials are to be applied.

The Contractor shall notify the Engineer after completing layout and tracking and at least 1 week before commencing installation of striping, markings and markers. The contractor shall not proceed with installation until they have obtained the written approval of the Engineer.

Full compensation for complying with the work contained in the City of Redondo Beach Project #40650 related to this section shall be included in the contract bid price for Bid Item No. 43.13- STRIPING, SIGNING AND MARKINGS per Lump Sum (LS). Payment shall include all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

SPECIFICATIONS

FRIENDS OF THE RIVIERA MONUMENT SIGN AT VIA MONTE D'ORO

A3.1 – Monument Sign with Aggregate Base, Reinforcement, Anti-Graffiti Coating, Cast in Place Letters Complete in Place

The contract bid item for Monument Sign with Aggregate Base, Reinforcement, Anti-Graffiti Coating, Cast in Place Letters Complete in Place shall include all work to construct the monument sign and all components complete in place.

The Owner will provide to the Contractor digital files in AutoCAD and .pdf format for use in preparation of the cast in place letters and forming of the sign curve template. The Contractor shall provide printed shop drawings for review and approval of the Owner prior to manufacture. Slight modifications may be directed prior to manufacture. The Owner shall review all produced forms and templates, and form placements prior to use. Concrete color and finish shall be determined in consultation with the Owner. Letter thickness and finished appearance shall be determined in consultation with the Owner.

Aggregate Base shall be Crushed Miscellaneous Base or Crushed Aggregate Base per Standard Specifications for Public Works Construction (Greenbook), at 95% compaction minimum, over subgrade at 90% compaction minimum.

Full compensation for complying with the work contained in this section shall be included in the contract bid price for Monument Sign with Aggregate Base, Reinforcement, Anti-Graffiti Coating, Cast in Place Letters Complete in Place per Lump Sum (LS). Payment shall include all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

A3.2 – PCC Mow Strip

The contract bid item for PCC Mow Strip shall include all work to construct the PCC mow strip complete in place. PCC mow strip shall be 2500 psi minimum strength concrete mix, over native subgrade compacted to 95% minimum.

Full compensation for complying with the work contained in this section shall be included in the contract bid price for PCC Mow Strip Complete in Place per Lump Sum (LS). Payment shall include all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

A3.3 – Irrigation Modifications Complete in Place

The contract bid item for Irrigation Modifications Complete in Place shall include all work to remove existing and install new irrigation spray heads and laterals as directed complete in place. Irrigation equipment shall match existing and City standards, and shall be installed and adjusted to provide for adequate coverage of adjacent landscaped areas.

Full compensation for complying with the work contained in this section shall be included in the contract bid price for Irrigation Modifications Complete in Place per Lump Sum (LS). Payment shall include all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

A3.4 – Quick Connect Coupler Complete in Place

The contract bid item for Quick Connect Coupler Complete in Place shall include all work to install a new quick connect coupler complete in place. Connection and location shall be approved by the City of Torrance and the Owner.

Full compensation for complying with the work contained in this section shall be included in the contract bid price for Quick Connect Coupler Complete in Place Complete in Place per Lump Sum (LS). Payment shall include all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.

A3.5 – Landscape Restoration

The contract bid item for Landscape Restoration shall include all work necessary to restore the site to a like condition prior to construction, to the satisfaction of the City of Torrance.

Full compensation for complying with the work contained in this section shall be included in the contract bid price for Landscape Restoration Complete in Place per Lump Sum (LS). Payment shall include all labor, tools, equipment, materials and incidentals necessary to complete the work and no additional compensation will be allowed therefore.