CONTRACT 2019-23
RANGE ROAD SIDEWALK IMPROVEMENT PROJECT

ADDENDUM NO. 1

This addendum consists of two (2) pages, plus one attachment (8) pages (Exhibit "A") amending the Contract Documents. All prospective bidders for the above-referenced project are to be aware that the following changes, additions and/or clarifications shall be included as an integral part of the Contract Documents for the above-referenced project, and that they are bounded by all conditions set forth therein.

ALL PROSPECTIVE BIDDERS are hereby notified that changes to the bidding documents for Contract 2019-23; Range Road Sidewalk Improvement Project are to be made as described hereinafter.

ITEM 1 - TECHNICAL SPECIFICATIONS

Remove Section 10-23, Traffic Signal System, (TS 43-51) and replace with Section 10-23, Traffic Signal System Revised (TS 43-50 revised) attached as Exhibit "A".

BID OPENING DATE – The bid opening date of **July 8, 2020, at 2:00 PM** remains the same with this addendum.

BIDDERS MUST SIGN AND ATTACH one (1) copy of this addendum document to the proposal as acknowledgment of receipt of these instructions and that said addendum was properly evaluated in the proposal.

ANY PROPOSAL NOT IN COMPLIANCE WITH THIS ADDENDUM MAY BE REJECTED.

Issued: 6/17/20

Richard Abono
City Engineer

Addendum No. 1, Contract 2019-23; Range Road Sidewalk Improvement Project is hereby acknowledged and was considered in this Contract Proposal.

_____ _____
Bidder's Signature Date

_____
Firm Name

_____
Mailing Address

_____
City/State/Zip+4

10-23 TRAFFIC SIGNAL SYSTEMS (REVISED)

10-23.01 GENERAL

Payment for the various items shown on the Bid Schedule, is the total compensation to be received by the Contractor for furnishing everything necessary to complete the Work, including, but not limited to, tools, equipment, supplies, manufactured articles, labor, operations, and incidentals appurtenant to the items of work described in the Contract Documents. Furnishing and installing traffic signal and payment shall conform to the provisions in Sections 86 and 87, "Electrical Systems," of the latest edition Standard Specifications, Amendments to the Standard Specifications, and these special provisions.

No payment will be made for any item that is not specifically set forth in the Bid Schedule(s), and all costs therefor shall be included in the prices named in the Bid Schedule(s) for the various appurtenant items of work.

10-23.02 EQUIPMENT ORDERS

The Contractor shall furnish all equipment and materials specified in the plans and these special provisions that are not furnished by the City. All equipment shall be new and purchased by the Contractor for this project only.

Submittals and issuance of Notice to Proceed

Within twenty-one (21) calendar days after the award of the contract, the Contractor shall submit equipment and materials submittals to the Engineer for review and approval. The Contractor shall allow fourteen (14) calendar days for the Engineer to review the equipment and materials submittals. If revisions are required as determined by the Engineer, the Contractor shall revise and resubmit the equipment and materials submittals within seven (7) calendar days of receipt of the Engineer’s comments and shall allow seven (7) working days for the Engineer to review the revisions. Once the submittals are approved by the Engineer, the Contractor must order equipment and materials and then submit a copy of each vendor Equipment and Material Purchase Order within (7) calendar days to the Engineer.

The Contractor must have copies of approved Equipment and Material submittal(s) and Purchase Order(s) prior to the coordination and issuance of the Notice to Proceed. Delay in equipment delivery shall not be considered as justification for the suspension of the construction contract.

10-23.03 EQUIPMENT LIST AND DRAWINGS

Equipment list and drawings shall conform to the provisions of the Standard Specifications and these Special Provisions.

10-23.04 WARRANTIES, GUARANTIES, INSTRUCTION SHEETS, AND MANUALS

Warranties, guaranties and instruction sheets shall conform to these Special Provisions. All equipment shall have at least one (1) year of manufacturer warranty.

Furnish the manufacturer's standard written warranty pertaining to defects in materials and workmanship for all equipment, and two (2) sets of user, operation, and maintenance manuals, written in English, on all equipment and components for the traffic signal to the Engineer.

10.23-05 BID SCHEDULE

All pay line items will be paid at the unit price rates provided in the Bid Schedule(s) for each items of work. The quantities of work or material stated as unit price items on the Bid Schedule(s) are supplied only to provide an indication of the general scope of the Work. The City does not agree that the actual amount of work or material will correspond with the quantities indicated in the Bid Schedule(s) and the City reserves the right after award of the Contract to increase or decrease the quantity of any bid item of work.

10.23-06 TRAFFIC SIGNAL MODIFICATION

a. Measurement for payment for the traffic signal modification at W. Leland Road and Range Road intersection will be based upon acceptable completion of such work in a lump sum unit in compliance with the requirements of the Contract Documents.

b. Payment for the traffic signal modification at W. Leland Road and Range Road intersection will be made at the unit lump sum bid price named in the Bid Schedule, which price shall constitute full compensation for furnishing all labor, tools, equipment, cables, pedestrian pushbuttons, mounting hardware, traffic control, and incidentals, and for doing all the work involved, including pulling necessary cables through existing and proposed conduits and termination in the cabinet as shown on the plans, as all the works necessary to render the traffic signals fully operable, site clean-up and restoration per the requirements of the Contract Documents.

c. The Contractor shall provide a lump sum price breakdown, if requested by the Engineer.

10.23-07 MAINTAINING EXISTING AND TEMPORARY ELECTRICAL SYSTEMS

Maintaining existing and temporary electrical systems, at W. Leland Road and Range Road intersection, shall conform to the provisions in Section 87-20, "Temporary Electrical Systems," Section 87-21 "Maintaining Existing Electrical Systems," of the Standard Specifications and these Special Provisions. Attention is also directed to Section 87-21, "Removing, Reinstalling or Salvaging Electrical Equipment," of the

Standard Specifications.

The Contractor is to maintain the existing traffic signal equipment in lieu of a temporary traffic signal during construction. Removal of the existing traffic signal equipment and conduit will be conducted after the proposed signals are installed and functional to the satisfaction of the Engineer.

Existing traffic signals shall be maintained and operational at all times, unless specifically allowed by the Engineer. In the event that power sources must be disconnected, the provision of power to existing signals and lighting shall be furnished by the Contractor, including arrangements, fees and monthly expenses.

Authorization and coordination from the Engineer are required for each traffic signal system shutdown. Traffic signal system shutdowns shall be limited to periods between the hours of 9:00 A.M. and 2:45 P.M.

Traffic signals shall be provided with full traffic actuation for all lanes and all approaches of traffic. Arrangements, fees and monthly expenses for temporary or re-routed power sources for temporary traffic signals and / or lighting shall be the responsibility of the contractor.

The Contractor may request authorization from the Engineer to use temporary overhead conductors for temporary traffic signal operation. Statutory line-height requirements shall be maintained at all times.
The Contractor shall submit plans or details for temporary traffic signals, or temporary alterations to traffic signals, to the Engineer for approval at least 7 calendar days in advance of the intended date of implementation.

The Contractor shall furnish and install temporary wood poles, signal poles, foundations, lighting, pull boxes, conduit, and necessary equipment to maintain functionality of traffic signals shown or not shown on the plans.

Payment for maintaining existing electrical system should not be paid for separately but shall be incidental to the traffic signal modification.

10-23.08 PEDESTRIAN PUSH BUTTONS

Pedestrian, bicycle, and equestrian push buttons shall conform to the provisions in Sections 86-1.02U and 87-1.03U, "Pedestrian Push Button Assemblies", of the Standard Specifications and these Special Provisions.

Push button assembly shall be Type B per Standard Plans ES-5C.

Push button housing shall be die-cast or permanent mold cast aluminum powder coated frame with stainless steel inserts and sign screws.

Push button sign shall be white powder coat base with black heat cured ink. Right and left arrow signs shall be doubled sided.

Push button shall be Polara Engineering, Inc. model BDLM2-Y or approved equal. Pedestrian push buttons installed on traffic signal poles located in the sidewalk shall be within 5 feet of the adjacent handicap curb ramp. Pedestrian push buttons installed on traffic signal poles located behind the sidewalk shall be within 1 1/2 feet of the back of sidewalk. If a traffic signal pole cannot meet either of the above criteria, the associated pedestrian push button shall be installed on a separate pedestrian push button post.

This item should not be paid for separately but shall be incidental to the traffic signal modification.

10.23-09 CONDUCTORS, CABLES AND WIRING

Conductors and Cables shall conform to the provisions in Sections 86-1.02F and 87-1.03F, "Conductors and Cables," of the Standard Specifications and these Special Provisions.

Wiring shall conform to the provisions in Section 87-1.03F(2), " Conductors Signal Cables," of the Standard Specifications and these Special Provisions.

Specific cabling and wiring requirements for various systems or components shall be in accordance with the Special Provisions entitled to each herein.

Signal cable shall be installed continuously without splicing from the controller cabinet to each traffic signal pole. Traffic signal conductors, multiple circuit conductors, and signal cable conductors shall not be spliced unless otherwise shown

All outer cable jacket for 12 conductor cable shall be removed from the traffic signal standard hand hole to the terminal block located at the side mount traffic signal head.

Where splice is required, Type C or Type T splice shall be used and insulated as shown in the Standard Plans, ES-13A (see 87-1.03H Conductor and Cables Splices).

Where splice is required, "Liquid Electrical Tape" or equivalent in black color shall be used to provide a watertight electrical insulating coating with "Method B" as shown in the Standard Plans, ES-13A.

Minimum luminaire wiring shall be No. 10 AWG, including wiring within poles and mast arms.

These items should not be paid for separately but shall be incidental to the traffic signal modification.

10.23-10 FOUNDATIONS

Foundations shall conform to the provisions in Section 51, "Concrete Structures," and Section 86-2.03, "Foundations," of the Standard Specifications and these Special Provisions. Cast-in- drilled-hole concrete pile foundations for traffic signal and lighting standards shall conform to "Piling" of these special provisions.

Portland cement concrete shall conform to Section 90-2, "Minor Concrete", of the Standard Specifications and shall be Class 3 except pole foundations shall be Class 2 with Type V
223 Portland cement with a maximum W/C ratio of 0.4. Additionally, an impermeable membrane (6- mil visqueen) shall be placed under and around the concrete foundation for signal pole.

This item should not be paid for separately but shall be incidental to the traffic signal modification.

10.23-11 STANDARDS, POLES, STEEL PEDESTALS AND POSTS

Standards, poles, steel pedestals, and posts shall conform to the provisions in Section 86-1.02J, "Standards, Poles, Steel Pedestals and Posts," of the Standard Specifications and these Special Provisions.

Pedestrian Pushbutton pole material shall be spun aluminum unless otherwise specified.

Poles installed at the near-right approach of each intersection shall be banded conforming to the strap and saddle method per Standard Plans RS4 for the emergency installation of stop signs.

If required by the serving electric utility, and confirmed by the Engineer, State Certified Electric Workers shall be utilized for the installation of standards, steel pedestals, and posts in accordance with State of California High Voltage Safety Orders.

Payment for this item shall be by unit price and shall include all the works necessary for site clean-up and restoration per the requirements of the Contract Documents.

10.23-12 CONDUITS

Conduit shall conform to the provisions in Section 86-2.05, "Conduit," of the Standard Specifications and these Special Provisions.

Conduits shall be Type 3, Schedule 80 Polyvinyl Chloride (PVC) conforming to UL Publication 651 requirements for Rigid Non-Metallic Conduit, for underground installation only.

Conduit depth shall not exceed 60 inches below finish grade.

Conduit size shall be 2 inches minimum unless otherwise specified. New conduit shall not pass through foundations or standards.

Conduit bends shall be factory bends. Bend radius for signal interconnect conduits shall be 3 feet minimum.

A pull rope and a bare #12 AWG wire shall be installed in conduits intended for future use.

Bell bushings are required for all conduit ends. The ends of conduits terminating in pull boxes and controller cabinets shall be sealed with sealing compound approved by the Engineer after conductors have been installed.

Conduits shall be installed via jacking or drilling method per Section86-2.05C, "Installation", of the Standard Specifications.

This item should not be paid for separately but shall be incidental to the traffic signal modification.

10.23-13 TRENCHING INSTALLATION

The Engineer shall approve trenching installation on a case-by-case basis where conduit cannot be installed by jacking or drilling. Jacking or Drilling shall be attempted a minimum of three times prior to requesting trenching installation.

If ordered by the Engineer, all pavements shall be cut to a depth of 3 inches with an abrasive type saw or with a rock cutting excavator specifically designed for this purpose. Cuts shall be neat and true with no shatter surface outside the removal area.

Trench shall be 2 inches wider than the outside diameter of the conduit being installed however not exceeding 6 inches in total width. The conduit shall be placed in the bottom of the trench. Conduit depth shall be at a minimum of 30 inches below finished grade, with a minimum of 26 inches cover over the conduit.

The trench shall be backfilled with two-sack slurry to the finish grade before final paving. Prior to final paving, grind pavement centered along the length of the trench a minimum width of 3 feet and depth of 0.10 feet and excavate backfilled to a depth of 0.30 feet below the final pavement surface. Final paving shall conform to "Hot Mix Asphalt" of these Special Provisions.

If directed by the Engineer, the two-sack slurry backfill can be installed to a depth of 0.30 feet below the final pavement surface and cured for a minimum of two days prior to final paving if the trench area is not open to traffic.

This item should not be paid for separately but shall be incidental to the traffic signal modification.

10.23-14 MODIFY PULL BOXES

The existing pull box shall be modified to allow connection with new conduits as shown on the plans. The pull box will remain at its current location but be made heavy duty of sustain traffic movements. Pull boxes shall conform to the provisions in Section 86-2.06, "Pull Boxes," of the Standard Specifications and these Special Provisions.

Traffic pull boxes shall conform to the provisions in Section 86-2.07, "Traffic Pull Boxes," of the Standard Specifications and these Special Provisions.

Pull boxes shall have a "Fibrelyte" or equivalent cover and bolt down design. Cover shall have a non-skid surface.

Pull box covers shall be marked in accordance with Standard Plans ES-8 without the word "CALTRANS".

This item should not be paid for separately but shall be incidental to the traffic signal modification.

10.23-15 CONDUCTORS, CABLES AND WIRING

Conductors and Cables shall conform to the provisions in Section 86-2.08, "Conductors and Cables," of the Standard Specifications and these Special Provisions.

Wiring shall conform to the provisions in Section 86-2.09, "Wiring," of the Standard Specifications and these Special Provisions.

Specific cabling and wiring requirements for various systems or components shall be in accordance with the Special Provisions entitled to each herein.

Signal cable shall be installed continuously without splicing from the controller cabinet to each traffic signal pole. Traffic signal conductors, multiple circuit conductors, and signal cable conductors shall not be spliced unless otherwise shown

All outer cable jacket for 12 conductor cable shall be removed from the traffic signal standard hand hole to the terminal block located at the side mount traffic signal head.

Where splice is required, Type C or Type T splice shall be used and insulated as shown in the Standard Plans, ES-13A.

Where splice is required, "Liquid Electrical Tape" or equivalent in black color shall be used to provide a watertight electrical insulating coating with "Method B" as shown in

the Standard Plans, ES-13A.

Minimum luminaire wiring shall be No. 10 AWG, including wiring within poles and mast arms.

These items should not be paid for separately but shall be incidental to the traffic signal modification.

10-24.14 MEASUREMENT AND PAYMENT

The contract prices paid per each for various types of **"Restore Detector Loop System"** shall be considered full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, including all necessary cutting, splicing, testing and connections, and for doing all work involved in installing new functional vehicle detector loops in coordination with final paving as shown on the plans, as specified in these Special Provisions, and as directed by the Engineer; and no additional compensation shall be allowed therefor.

The contract price paid per lump sum for **"Install New Pedestrian Push Buttons (PPB) and Signal Conduits/Conductors"** shall be considered full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, including all push button, advisory sign, saddle, wire, all material, equipment, paint, painting, cutting, splicing, testing and connections, and for doing all work involved in installing new pedestrian push buttons and signal conduits/conductors as shown on the plans, as specified in these Special Provisions, and as directed by the Engineer; and no additional compensation shall be allowed therefor.