

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 4/05/2010

Control	0921-02-220, ETC.
Project	STP 2010(749)HRR, ETC.
Highway	CS
County	HIDALGO

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: STP 2010(749)HRR

CONTROL: 0921-02-220

COUNTY: HIDALGO

LETTING: 04/06/2010

REFERENCE NO: 0405

PROPOSAL ADDENDUMS

PROPOSAL COVER

BID INSERTS (SH. NO.:

X GENERAL NOTES (SH. NO.: A-L

SPEC LIST (SH. NO.:

SPECIAL PROVISIONS:

ADDED:

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

OTHER:

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

GENERAL NOTES IN PLAN SHEETS ARE CORRECT.

GENERAL NOTES IN PROPOSAL ARE BEING REVISED TO MATCH PLAN SHEETS.

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GENERAL NOTES:

The following standards detail sheets have been modified: ED(3)-03 and ED(7)-03.

The 1-800 call services for utility locations do not include TxDOT facilities. Contact the Pharr District Signal Section (956-702-6225) for coordination with TxDOT underground lines.

GENERAL: This Project will be in accordance with Article 8.3.A.1 of the 2004 Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges.

This project shall consist of furnishing and installing all material and equipment necessary for completing a Fully Actuated Traffic Signal. Material furnished by the contractor shall be new, not depreciated stock. Electrical material and fittings covered by the plans and specification for this project shall be in accordance with NEMA standards. These installations shall comply with the applicable provisions of the National Electrical Safety Code and National Electrical Manufacturers Association Specifications.

The exact location of the traffic signal poles, foundations and ground boxes shall be verified by Engineer in the field. Locations of service poles, conduit and other items on the plans are for graphic representation only. Actual locations may be varied to meet local conditions.

The Contractor shall attend a preconstruction conference discuss traffic control, traffic safety, construction sequences and safety prior to start of construction. Contractor shall submit a work schedule, material sources and letters designating the project superintendent, safety officer and payroll officer. The Contractor's superintendent shall attend the preconstruction conference. The Contractor shall, at the preconstruction meeting or prior to beginning any work on the project submit a certificate indicating the completion of flagger training by a company representative.

The Contractor shall certify all workers performing electrical work as required in article 7.15 submit a copy of the license or certification to the Engineer prior to beginning any electrical work.

The Contractor shall submit shop drawings and submittals for each type of cabinet, sign and electronic equipment to the Engineer for approval prior to installation or fabrication. The Contractor shall repair any damage or disturbance to the existing slopes, ditches, signs and delineators, etc. caused by construction operations and/or equipment.

When a structure is to be erected or conduit is to be installed where riprap surface, pavers or an asphalted concrete surface presently exist, care should be taken in breaking out the existing surface for placement of the foundation. No greater area than is required for placement shall be broken out. After the structure is installed, replace broken out surface with Class A or Class C

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concrete, appropriate pavers or cold mix asphalted concrete to match the existing material, slope, pattern and thickness of the existing surface. Payment for breaking out the existing surface and replacing the broken out surface is considered subsidiary to the various bid items.

All materials and services not expressly called for in the specification or not shown in the plans, which may be necessary for completion, operation and proper installation of the "Traffic Signal", will be preformed, furnished and installed at no cost to the Department.

Utilities

The location of utilities, either underground or overhead, shown within the limits of right of way is approximate only and shall be verified by the Contractor before beginning construction. Prior to beginning any excavation work in the area of existing utilities, the Contractor shall contact 1-800-DIG-TESS (1-800-344-8377) and the TXDOT Utility Coordinating Committee for exact locations prior to drilling for foundations or any work that might interfere with or damage present facilities. Contact TXDOT Utility Coordinating Committee at 956-702-6174 for state maintained utility locations.

The Contractor shall repair any damage caused by his operations deemed his liability by the Engineer, at his own expense and shall restore facilities to service in a timely manner. All information concerning utility verification shall be provided to the Engineer.

In the event utility lines needing unforeseen adjustments are encountered, the Contractor shall prosecute the work in such a manner and sequence as to allow adjustments to be done by others.

The Contractor is responsible for making the appropriate adjustments during "Traffic Signal" construction, which may be needed because of conflicts with utilities. The Contractor will make his own investigation as to utility location and consult the appropriate utility company prior to making any adjustment proposals. The contractor shall save harmless the state from any suits or claims resulting from damage by his operation to any overhead or underground installation. The contractor shall obtain the Engineer's approval for any adjustments required due to utility conflicts. The Contractor is responsible for any damage incurred during this process.

The Contractor shall call the power company if any overhead or underground electrical lines need to be de-energized. Cost associated with de-energizing the electrical lines and/or any other protective measures required will be considered subsidiary to the various bid items.

The Contractor shall perform all electrical work in accordance with the National Electrical Code, TXDOT Standard Sheets, and the Local Electric Company.

The Contractor shall coordinate electrical service installations with the Electrical Service Provider representatives according to their respective area.

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The Department will be responsible for energy incurred by the “Traffic Signal” locations during construction. These charges should be billed to the Texas Department of Transportation, PO Box 1717, PHARR, TX 78577. Upon completion and final acceptance, Hidalgo County will transfer all accounts to their name.

The location of “Traffic Signal(s)” traffic signal poles, service poles, signal heads, luminaires, conductors, cables, and conduits are diagrammatic only. Upon approval, locations may be changed to accommodate field conditions.

ITEM 8: Prosecution and Progress

Immediately upon execution of the contract, the Contractor shall submit the traffic signal material and equipment submittals and get them preapproved by the TxDOT Pharr District Traffic Operations Section prior to ordering the material and before any work may begin.

Working days will be computed and charged in accordance with Article 8.3.A.1 Five-Day Workweek.

Prior to beginning construction operations, preconstruction conference between the Contractor and the Engineer will be conducted. The Contractor shall begin the work to be preformed under the contract within 120 days (Special Provision 008---008) after the date of the authorization to begin work as shown on the work order and shall continuously prosecute same with such diligence as will enable him to complete the work within the time limit specified. The Contractor shall notify the Engineer at least 24 hours before beginning work and any new operation. The Contractor shall not start new operations to the detriment of work already begun. The prosecution of the work shall be conducted in such a manner as to impose minimum inconvenience to the traveling public.

Where road closures or detours around structures are necessary to accomplish proposed work, the removal of existing structures and/or cutting of existing pavement will not be permitted until all pre-cast members for the proposed structure have been cast, tested and approved for use.

ITEM 400: Excavation and Backfill for Structures

If the Contractor elects to cut pavement (existing/detour) for structural work beyond that required by the construction phasing shown in the plans and approved by the Engineer, it shall be restored at his expense and backfilled to its original condition or better in accordance with Item 400.

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ITEM 416, Drilled shaft foundations

Payment for furnishing and installing anchor bolts mounted in drill shafts will be included in the unit price bid for the various diameter drill shafts.

The Contractor shall probe the drill site before drilling sign foundations, to determine the locations of utilities and structures. The Contractor will be paid only once, regardless of the extra work caused by the occurrence of these obstructions.

The Contractor shall form, or provide a smooth finish, the portions of drilled shaft that project above the ground line. Place a $\frac{3}{4}$ inch chamfer on the top edge of each pole foundation. This work will not be paid for directly, but will be considered subsidiary to this bid item.

All drilled shaft foundations will be based on the lengths shown on the plans or those established in writing. Adequate calculations for measurements of foundations have been made in accordance with Article 9.1 of the Standard Specifications. Increases or decreases in the quantities required by change in design will be measured as specified and the revised quantities will be the basis for payment.

In the presence of excess ground water and/or unstable conditions in sub-grade soils prevents excavation to the line and depths indicated on the plans for "Drilled Shaft Foundation", other proposed methods of foundation installation such as casing, etc. shall be submitted for review and approved by the Engineer.

ITEM 502: Barricades, Signs and Traffic Handling

The Contractor shall provide, install, maintain, and remove upon completion of work, a complete set of barricades, and other traffic control devices, used for traffic handling, as indicated on the plans and as directed.

The Contractor may be required to furnish additional barricades and signs to maintain traffic and maximize safety. Any such additional signs and barricades shall be considered subsidiary to Item 502. All signs, barricades and posts shall be either new or freshly painted.

Replace/relocate all regulatory signs removed due to construction operations with a same sign on fixed support(s) immediately upon its removal. First obtain project Engineer approval before removing any regulatory roadway sign. Required flaggers are to be available to direct traffic during sign intermediate down time.

Relocate any Directional Sign Assemblies removed during construction operations immediately upon their removal.

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These signs shall be relocated to a location in accordance with the current edition of the “Texas Manual on Uniform Traffic Control Devices”. In no case will a sign be removed without a replacement sign and support(s) being readily available and a location established. Removal and relocation of these signs required for traffic control will not be paid for directly, but shall be considered subsidiary to Item 502.

Roads and Streets shall be kept open to traffic at all times. The Contractor shall arrange the settings of Loop Detectors so as to close only one lane of a roadway at a time. The Contractor shall arrange the installation of Signal Heads, Poles and Conduit so as to permit the continuous movement of traffic in both directions at all times.

Before any obstruction is placed on the pavement, warning devices shall be placed in position as indicated on the Traffic Control Plan, the latest editions of BC, WZ, and TCP standards.

The Contractor shall use the plans, the latest version of the “TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS,” or as directed by the Engineer for the traffic control plan for this project. Any variations of the traffic control plan must be approved by the Engineer.

Erection of signs shall be scheduled to interfere as little as possible with the traveling public. The following requirements must be observed.

The Contractor shall take adequate precautions to protect traffic from falling objects when installing overhead traffic signal equipment.

All construction operations shall be conducted to provide the least possible interference to traffic as shown on the Plans, as provided for in the Specifications and/or as directed by the Engineer. All signing, Barricading and Traffic Handling shall conform to the current edition of the “Texas Manual on Uniform Traffic Control Devices”.

Temporary Signs stating the turn on date for a new Traffic Signal shall be erected on each approach of the particular intersection. Details of the sign are shown on the “Traffic Signal Construction Details”. The Sign will not be paid for directly but shall be considered subsidiary to the various bid Items of the Project.

ITEM 506: Temporary Erosion, Sedimentation, and Environmental Controls

Due to the nature of this project, it is unlikely a significant amount of soil will be disturbed. However, if for unforeseen reasons a sediment control fence is needed; it shall be placed as directed by the Engineer.

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ITEM 610: Roadway Illumination Assemblies

Luminaires shown on the proposed Traffic Signal installation layout sheets may be shown at an angle for clarity. All luminaires shown shall be installed perpendicular to the main roadway under construction.

In addition to ED (2)-03, each cable for luminaires shall be identified in each ground box, pole base, or other accessible location with yellow electrical tape wrapped around the cable. The tape marking shall be at least 2 inches.

All luminaires on traffic signal poles shall be rated for 240 vac.

Luminaires installed on traffic signal poles will not be paid for directly, but shall be considered subsidiary to the various bid items of the project.

ITEM 618: Conduit

All conduit ends in pole bases, controllers and ground boxes shall be plugged with 4 to 6 inches of polyurethane sealant or its equivalent after cables are in place.

Conduit shall be placed in a straight line not to exceed 2.0 feet in any direction. The depth of the conduit shall be 2.0 feet except when crossing a roadway where the depth shall not be more than 3.0 feet nor less than 1.0 foot below the bottom of the base material in the roadway when placed by the jacking or boring method. Any evidence of damage to the roadway during the jacking or boring operation shall be sufficient grounds to stop the method being used.

Conduit runs under paved roadways or driveways shall be jacked or bored and then pushed across. At these locations, galvanized rigid metal may be used. All other runs shall be made by trenching. Existing pavement which will be removed, reconstructed or overlaid with new pavement may be trenched across.

Trenches for conduit runs shall be a minimum 2 feet deep and 4 inches wide. The conduit shall be placed on a 2-inch sand cushion and then backfilled with a minimum of 6 inches sand fill. The remainder of the trench shall be backfilled with flexible base, soil or two-sack concrete as required by location of conduit on the project or as directed. The top 3 inches shall match the existing surface material.

All conduit elbows and rigid extensions required to be installed on PVC conduit systems will not be paid for separately, but will be considered subsidiary to the various bid items.

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Use materials from prequalified material producers list as shown on the Texas Department of Transportation (TxDOT) - Construction Division's (CST) materials producers list. Category is "Roadway Illumination and Electrical Supplies."

ITEM 620: Electrical Conductors

For Flashing Beacons (Item 685) and Ped poles (Item 687) within the project, provide single-pole breakaway disconnects.

Use Bussman HEBW, Littelfuse LEB, Ferraz-Shawmut FEB, or equal on ungrounded conductors.

For all grounded conductors use Bussman HET, Littlefuse LET, Ferraz-Shawmut FEBN, or equal on ungrounded conductors. For all grounded conductors use Bussman HET, Littelfuse LET, Ferraz-Shawmut FEBN, or equal. These breakaway connectors have a white colored marking and a permanently installed solid neutral.

ITEM 621: Tray Cable

Connect luminaires on traffic signal poles using a 4 conductor tray cable with conductor colors of red, black, and green #12 AWG (XHHW). The white (neutral) conductor will not be needed and will be capped.

ITEM 628: Electrical Service

Arrange for and cooperate with the utility company to provide electrical power **for the** service(s) shown and as required by the plans. A meter will be required on all electrical services.

ITEMS 636: Aluminum Signs

Complete sign blanks and panels shall be handled and stored at the job site in such a manner that corners, edges and faces are not damaged. Finished sign blanks shall be stored in either a weatherproof warehouse or outside and off the ground in a vertical position. All paper, cardboard and chemically treated separators and packaging shall be removed prior to outside storage.

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ITEM 644: Small Roadside Sign Supports and Assemblies

All signs shall be installed as shown in the plans and in accordance with the current edition of the "Texas Manual on Uniform Traffic Control Devices" and the "Sign Crew Field Book" (SCFB).

All signs shall be erected according to the locations shown on the signing layout sheets except that a sign may be shifted in order to secure a more desirable location. All sign locations will be staked as shown in the plans and as approved. It is the intent of the plans to erect all roadside traffic signs with the sign edge a minimum of 6 feet from the edge of the shoulder, or if none, 12 feet from the edge of the travel lane. In curb and gutter sections the sign edge shall be a minimum of 2 feet from the face of the curb.

For this project, aluminum type sign blanks as provided for under Item 636 will be required for all proposed signing installed under Item 644. Aluminum sign blanks less than 7.5 square feet shall be 0.08 inch thick, sign blanks 7.5 to 15 square feet shall be 0.100 inch thick and sign blanks greater than 15 square feet shall be 0.125 inch thick.

All excess excavation shall be spread uniformly inside the right of way as directed and shall be included in the price of these Items.

Sign types which design details are not shown on the plans shall conform to the latest edition of the Department's "Standard Highway Sign Design for Texas" Manual.

Signs shown to be removed shall include the complete sign installation and separate the sign post at the concrete foundation. The concrete foundation shall be disposed in accordance with this Bid Item. Except for concrete foundations, all removed sign panels, sign posts, and hardware shall remain the property of the Department. All removed sign installations shall be completely disassembled. All salvageable sections of sign panels shall be recycled by TxDOT. The removed sign material will be required to be hauled to the maintenance yard closest to the project. No signs shall be removed without prior approval.

ITEM 656: Foundations for Traffic Control Devices

The dimensions shown on the plans for location of signal pole foundations, conduit and other Items may be varied to meet existing conditions as approved.

The work area shall be cleaned up and all loose material resulting from the contract operations shall be removed from the work area each day before work is suspended.

No traffic signal pole shall be placed on the foundations prior to seven (7) days following placement of concrete.

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ITEMS 662 AND 666: Work Zone Pavement Markings and Reflectorized Pavement Markings

All permanent pavement markings and work zone pavement markings for this project under these Items shall be 0.100 inches (100 mil) thick thermoplastic.

Any permanent pavement markings or non-removal work zone pavement markings lacking reflectivity in accordance with test method Tex 828-B, will not be paid for, as per district policy. The roadway will be re-striped at no additional compensation.

Pavement surface preparation for markings and markers will not be paid for directly, but shall be considered subsidiary to Item 666.

Prior to any striping operations, an on-site coordination meeting between all the parties involved will be required to review striping details and requirements to ensure quality work.

The beads used on this project shall meet the requirements of Departmental Materials Specification DMS-8290, Glass Traffic Beads Texas Type II & III. Use a 50% Type II/ 50% Type III mix utilizing a double drop system with Type II beads dropped first.

ITEM 680: Installation of Highway Traffic Signals

The installation of highway traffic signals shall consist of the following principal Items:

1. Furnishing and installing post mounted flashing beacon controller(s) and cabinet(s).
2. Furnishing and installing steel strain poles, electrical service, luminaries, signal heads and cables, galvanized steel span wire and conduit runs.
3. Removal and disposal of existing flashing beacon material specified in the plans.
4. All other Items not listed above which are needed to provide for complete flashing beacon installations and for proper operation as called for in the plans and specifications shall be furnished and installed.

Any deviation of location for proposed signal work shall be as approved.

All wiring not covered by the plans and specifications shall be in accordance with the latest edition of the National Electrical Code,

Existing Utilities

The exact location of existing underground utilities shall be verified with the utility companies prior to construction to avoid conflict with or damage to these utilities.

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Coordination with the utility companies will be required to make any adjustments, due to utility conflicts, as defined in the specifications or deemed necessary.

Uniformity in Equipment

1. All flashing beacon controllers furnished shall be by the same manufacturer.
2. All flashing beacon heads furnished shall be by the same manufacturer.
3. All signal fittings and pipe brackets shall be of an approved metallic material and of the same design and manufacturer.
4. All traffic signal poles furnished shall be by the same manufacturer.

Handling of Traffic

Roads and streets shall be kept open to traffic at all times. The installation of flashing beacon heads, steel strain poles and conduit runs shall be arranged so as to permit the continuous movement of traffic in both directions at all times.

All construction operations shall be conducted to provide the least possible interference to traffic as shown on the plans, as provided for in the specifications and/or as directed. All signing, barricading and handling of traffic shall conform to the current edition of the "Texas Manual on Uniform Traffic Control Devices".

Sequence of work

1. The existing flashing beacon installation(s) shall remain in operation at all times during construction of the proposed flashing beacon installation(s) or modification(s).
2. The complete removal of the specified existing flashing beacon installation or specified Items will be required when the proposed flashing beacon installation(s) are in place and operational.
3. All labor, tools, and materials used to remove the specified existing flashing beacon material shall not be paid for directly, but be considered subsidiary to the various items of work.
4. Final inspection shall be performed in conjunction with the district signal shop.

ITEM 682: Vehicle and Pedestrian Signal Heads

All flashing beacon heads shall be covered with burlap from the time of installation until they are placed in operation. All flashing beacon heads shall be of polycarbonate material and yellow in color. Flashing beacon heads shall have standard detachable visors. LED's shall be furnished for all traffic signal heads.

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Flashing beacon heads shall be positioned carefully to provide the best view of head indications to motorists. All beacon heads shall be installed to a neat overall appearance.

Nominal height for flashing beacon heads above pavement surface shall be 18 feet 6 inches, plus/minus 3 inches.

ITEM 684: Traffic Signal Cables

Use #12 AWG for all signal cable.

ITEM 685: ROADSIDE FLASHING BEACON ASSEMBLIES

The roadside flashing beacons shall be installed at locations shown on the signing detail sheets and as shown on Standard Sheet RFBA-04.

All wiring not covered by the plans and specifications shall be in accordance with the latest edition of the National Electrical Code.

Grounding and bonding

A continuous bare or green insulated copper wire no. 8 or larger shall be installed in every conduit throughout the electrical and traffic signal system in accordance with Item 680, the Electrical Detail Sheets and the latest edition of the National Electrical Code.

Existing utilities

The exact location of existing underground utilities shall be verified with the utility company prior to construction to avoid conflict with or damage to these utilities.

Coordination with the utility companies will be required to make any adjustments, due to utility conflicts, as defined in the specifications or deemed necessary.

Handling of traffic

All construction operations shall be conducted to provide the least possible interference to traffic as shown on the plans, as provided for in the specifications and/or as directed. All signing, barricading and handling of traffic shall conform to the current edition of the "Texas Manual on Uniform Traffic Control Devices".

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ITEM 686: Traffic Signal Pole Assemblies (Steel)

The locations for the proposed traffic signal poles are approximate. The exact locations will be determined in the field in coordination with the District Signal Shop.

Erection and/or removal of poles and luminaries located near any overhead electrical power lines shall be accomplished using established industry and utility safety practices. The appropriate utility company shall be consulted with prior to beginning such work.

SPECIAL SPEC ITEM 6055: In-Lane or Traverse Rumble Strips

Provide rumble strips from manufacturer's prequalified by the Department. The Traffic Operations Division maintains a list of prequalified Rumble Strip Manufacturer's. Install the In-Lane or Traverse rumble strips in locations shown in the plans. Install the rumble strips in accordance to manufacturer's recommendations.