

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 3/30/2016

Control	0033-08-038
Project	NH 2016(916)
Highway	BU 83-D
County	TAYLOR

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: NH 2016(916)

CONTROL: 0033-08-038

COUNTY: TAYLOR

LETTING: 04/05/2016

REFERENCE NO: 0330

PROPOSAL ADDENDUMS

PROPOSAL COVER

BID INSERTS (SH. NO.:

GENERAL NOTES (SH. NO.: G

SPEC LIST (SH. NO.:

SPECIAL PROVISIONS:

ADDED:

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

*****GENERAL NOTES*****

SHEET G: REMOVED NOTE REQUIRING TYPE C FIELD OFFICE

*****PLAN SHEETS*****

SHEET 13 (GENERAL NOTES): REPLACED

INFORMATION MAY HAVE SHIFTED DUE TO CHANGES LISTED ABOVE

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ABILENE DISTRICT GENERAL NOTES 2014 SPECIFICATIONS

General

Questions prior to letting may be submitted by e-mail to the names indicated below and will be answered by e-mail:

Wayne Ekdahl, P.E.: Wayne.Ekdahl@txdot.gov

Paul Norman, P.E.: Paul.Norman@txdot.gov

A file containing these questions and answers will be available for review at the Area Engineer's office.

Failure to make necessary corrections to SW3P or traffic control items based on SW3P or barricade inspections will be cause for withholding the monthly estimate until such corrections have been made.

Provide ingress/egress to the adjacent properties in areas under construction. Phased construction of driveways and streets shall be required to provide uninterrupted access to adjacent properties. Coordinate work with the property owners before beginning any construction in the vicinity of the drive.

Item 5, "Control of Work"

All known utilities are identified in the plans, including the crossing of power lines. Use this information to identify potential issues with power poles and power lines prior to bidding. Make necessary arrangements with utility owners regarding temporary protections such as bracing power poles, and de-energizing power lines. The Department will not reimburse the cost of such temporary protections to the Contractor, unless the Engineer determines that inadequate information was available at the time the project was bid. **"Call Before You Dig" "Call 811"**

Item 7, "Legal Relations and Responsibilities"

The total area disturbed for this project is 0.14 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the government that operates a separate storm sewer system.

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Item 8 “Prosecution and Progress”

Each contract awarded by the Department stands on its own and as such, is separate from other contracts. A Contractor awarded multiple contracts must be capable and sufficiently staffed to concurrently process and/or execute all contracts at the same time.

Roadway will be performed during off-peak hours, 7 pm until 6 am unless otherwise shown in plans.

Disincentives based on road user costs will apply on this project. Since this project is set up for night work only, all lanes of traffic shall be open and operational from the hours of 6:00 AM to 7:00 PM. For every hour that the lane closures/detours remain between 6:00 AM to 7:00 PM, the contractor will be charged \$200/hour.

Day time lane closures will only be allowed for the bridge rail work at Buttonwillow Creek (rail retrofit, mow strip and MBGF). The contractor will have 14 days to complete the bridge rail retrofit, MBGF mow strip and all MBGF once the lane closure goes into effect on each side. If the lane closure extends beyond 14 days a lane rental fee will be imposed at the rate of \$200 per hour or \$2400 per day starting on the 15th day.

Prepare the progress schedule as a Critical Path Method (CPM).

Item 302, “Aggregates for Surface Treatments”

Furnish aggregate for final surfaces with a minimum surface aggregate classification of “B”.

Flakiness index for aggregates will not be required on this project.

Item 316, “Surface Treatments”

Unless authorized in writing by the Engineer, the open season for the application of asphalt is May 15 to September 1.

Seal driveways, mailbox turnouts, and intersections prior to placing final roadway surface, unless otherwise approved.

Use street sweeper as necessary to keep debris off pavement surface.

Furnish a minimum of three light or two medium pneumatic-tire rollers in accordance with item 210, “Rolling”.

Provide pre-coat aggregate with **PG 64-16** or as approved by the Engineer.

Cover or protect any sealed expansion joints or rail on bridges and any railroad tracks encountered on this project, as directed by the Engineer. Clean any of these items not properly protected. This work will not be paid for directly but will be considered subsidiary to Item 316.

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For items of work that include both summer and Winter materials, the Engineer will determine which asphalt to apply based on timing and prevailing weather conditions.

Item 320, “Equipment for Hot Mix Asphalt Materials”

Use of a motor grader is allowed for spot repair of asphalt base.

Item 344, “Superpave Mixtures”

Furnish aggregate for final surfaces with a minimum surface aggregate classification of “B”.

Provide an SP-D Fine Mixture with a minimum design VMA of 17.0% and a minimum plant-produced VMA of 16.5%.

Provide an SP-C Fine Mixture with a minimum design VMA of 16.0% and a minimum plant-produced VMA of 15.5%.

The Engineer reserves the right to test all sources even if the source is listed in the Bituminous Source Rated Quality Catalog.

Provide the testing lab samples to calibrate the ignition oven no later than five (5) working days prior to mix design verification.

Meet the minimum Hamburg Wheel Test requirements shown below:

- PG 64 or lower – 5,000 passes
- PG 70 – 10,000 passes
- PG 76 – 20,000 passes

Paving operations will not be allowed to begin until TxDOT has tested and obtained passing Hamburg results on the trial batch.

A maximum of 0.50% anti-stripping agent will be allowed for each specified mix type. Dilution of tack coat is not allowed.

Do not exceed a laydown width of 16’ per pass.

Substitute Binders will not be allowed unless RAP or RAS is used in the production of the mixture. Only one grade dump will be allowed.

RAS will not be allowed in surface mixes.

A warm mix additive will be required for hotmix hauls over 50 miles.

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Unless otherwise directed by the engineer, a warm mix additive will be required when paving during November 1st through March 15th.

The maximum allowable dust / asphalt ratio that will be allowed is 0.6 to 1.2.

Unfractionated RAP will not be allowed in surface mixtures.

Item 346, “Stone Matrix Asphalt”

For SMAR type mixes, use AC-10 asphalt in the A-R binder and meet a minimum Hamburg Wheel Test requirement of 5,000 passes.

Provide additional SGC molds as necessary to allow for proper cooling and testing of laboratory densities.

Furnish aggregate for final surfaces with a surface aggregate classification of “A”.

The Engineer reserves the right to test all sources even if the source is listed in the Bituminous Source Rated Quality Catalog.

Provide the testing lab samples to calibrate the ignition oven no later than five (5) working days prior to mix design verification.

Do not exceed a laydown width of 16’ per pass.

Substitute Binders will not be allowed unless RAP or RAS is used in the production of the Mixture.

Unfractionated RAP will not be allowed in surface mixtures.

Use **PG 76-28** binder under this item.

Item 351, “Flexible Pavement Structure Repair”

The quantity shown in the plans for pavement structure repair is estimated. The Engineer will determine specific locations to be repaired. Unless otherwise shown in the plans, multiple locations throughout the project will be repaired, and may vary significantly in length and width.

Item 354, “Planing and Texturing Pavement”

Stockpile all unused planed materials at US 84 at UP railroad bridge near I-20 approximately 7 miles from the project site.

Build stockpiles in horizontal layers with a maximum height of 10 feet, as directed. Minimize driving on the stockpile to prevent excessive compaction.

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Coordinate with City of Abilene to set traffic signals at S. 11th and S 1st Streets and Ambler Avenue to fixed timing prior to milling operation. Ambler Avenue to remain on fixed timing. Signal upgrades at Ambler Avenue will be done by others under separate contract.

Item 421, “Hydraulic Cement Concrete”

Use a cement meeting the requirements of Ty II when Mix Design Option 7 is selected for cast in place concrete.

Class C fly ash and Ty I cement will not be allowed for any mix unless approved by the Engineer.

As a minimum, curing facility includes concrete curing tank, heater and a concrete recording thermometer. Provide a recorder with the capability to chart temperatures for 24 hours, 7 days and 30 day period of time.

Air Entrainment requirements are waived with exception to bridge deck concrete, and rails, top slabs of direct traffic culverts and approach slabs. Air Entrainment is required for all slip formed concrete (bridge rail, concrete traffic barrier, pavement, etc.).

For this project, the Engineer will provide strength-testing equipment for acceptance testing.

If the Contractor elects to use air entrainment in concrete when not required, the upper spec limit will not be waived.

Item 432, “Riprap”

Provide fiber reinforced or conventionally reinforced concrete for formed M.B.G.F. concrete mow strip.

Meet the following requirements when using fiber reinforcement:

- If slip forming, use an approved method that ensures adequate concrete consolidation. Sprinkle and consolidate the subgrade before the concrete is placed. Finish the surface with a wood float or broom finish as approved. Immediately after finishing operation, cure the riprap according to Item 420, “Concrete Structures”.

Item 450, “Railing”

RAC will not be paid for directly but will be considered subsidiary to pertinent Items.

Item 502, “Barricades, Signs and Traffic Handling”

Provide the Engineer with written notification seven (7) days in advance of major traffic changes. A major traffic change is defined as the temporary (greater than one day) or permanent relocation of traffic lanes typically in an urban setting. The notice will, at a minimum, include the expected date, time and scope of the traffic change. The Department will utilize the information provided to inform the traveling public of the changes. Failure to provide advance

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notice, or to provide accurate information, will result in delaying the work until such time that the public has been notified.

Additional signs, barricades and traffic handling may be necessary to complete the work shown herein and will be provided by the contractor as required and will be considered subsidiary to this item.

Provide separate attenuators for each work area within a common lane closure as approved or directed by the Engineer.

Provide to the Engineer a letter certifying that all truck-mounted attenuators (TMA) used on the project have proven to be crashworthy using the criteria outlined in the *National Cooperative Highway Research Program (NCHRP) Report 350*. The supporting vehicle shall have a gross (i.e., ballasted) vehicular weight of 20000 ± 1000 pounds.

Relocate existing roadside signs to temporary supports as approved by the engineer.

All safety appurtenances such as signs, delineators, object markers and route markers will be in place prior to opening each phase of the construction to traffic, unless otherwise directed.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Temporary work zone rumble strips, in accordance with WZ(RS)-14, are required for this project. Install and maintain temporary work zone rumble strips in accordance with WZ(RS)-14 utilizing traffic control in accordance with applicable traffic control standards, or as approved by the Engineer. This work will not be paid for directly, but will be considered subsidiary to the various bid items of the contract.

The Contractor's person responsible for TCP compliance is available by local telephone and has a response time within 45 minutes.

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Item 504, “Field Office for Laboratory”

Field Laboratory:

Furnish a “Type D” structure for the asphalt mix control laboratory for the Engineer’s exclusive use. In addition to the requirements of Item 504, furniture and equipment to be furnished by the Contractor shall include:

- eye wash station
- first-aid kit
- two fire extinguishers
- Provide internet connectivity for use by TxDOT lab testing personnel at all laboratory structures on this project.

Item 530, “Intersections, Driveways, and Turnouts”

Excavation and embankment necessary to construct the intersections and driveways according to the details shown elsewhere shall be considered subsidiary to this item.

Item 540, “Metal Beam Guard Fence”

For metal beam guard fence, use round wood posts.

Steel posts for metal beam guard fence may be field cut to proper rail height with a power saw when approved by the engineer.

Item 544, “Guardrail End treatments”

Drill pilot holes for lag bolts to attach SGT head to wood post, do not hammer lag bolts.

For roadways with shoulder widths two feet or less (non-curbed), place the SGT on a 25:1 taper as shown in the plans unless otherwise approved by the Engineer. For roadways with shoulder widths greater than two feet, place the SGT with no flair unless the Engineer approves a flair installation.

Item 585, “Ride Quality for Pavement Surfaces”

The Engineer reserves the right to prohibit corrective work and assess the penalty for each occurrence of localized roughness per Article 585.3.4.2.3.2.

Use pay adjustment schedule **1 (one)** for Ride Quality bonus/penalty calculation.

Item 618, “Conduit”

Conduit elbows will be the long radius variety.

Rigid metal conduit elbows 1” and larger that are required to be installed on conduit system, will not be paid for separately, but will be considered subsidiary to the various bid items.

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Item 620, “Electrical Conductors”

A continuous bare or green insulated copper wire No. 8 AWG or larger will be installed in every conduit throughout the electrical system in accordance with Item 620, the electrical detail sheets, and the latest edition of the National Electric Code (NEC).

Grounding Conductors that share the same conduit, junction box, ground box or structure shall be bonded together at every accessible point in accordance with the current National Electrical Code.

Item 658, “Delineator and Object Marker Assemblies”

Delineators and object marker assemblies will use winged channel posts. The winged channel posts will be 1.12 lb/ft and 6.5 ft in length.

Place type “BRF” delineators on bridge rail at 100-ft spacing. Reduce spacing to provide a minimum of three delineators per run. Attach delineators to concrete rail by casting in place or doweling in and epoxying a 3/8” x 2” bolt into the concrete.

Use a minimum of 2 inch long lag screws with washers to attach flexible GF2 barrier reflectors to wooden post.

Attachment hardware is subsidiary to this item.

Item 662, “Work Zone Pavement Markings”

Place work zone pavement markings (flexible tabs) prior to the seal coat operation.

Dispose of tabs and paper in an approved trash receptacle. (Reference Standard **SW3P**, waste material)

Item 666, “Reflectorized Pavement Markings”

Provide a complete system of thermoplastic pavement markings at locations indicated on the plans and as directed. The plans are intended to show typical conditions, which can be extended throughout this project as approved or directed.

Establish a true and correct alignment with a method approved by the Engineer. This work will be considered subsidiary.

Item 680, “Installation of Highway Traffic Signals”

Perform all work and furnish all materials and equipment necessary to complete this item of work.