

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 1

**DATED 1/02/2009**

<b>Control</b>	<b>0912-71-804</b>
<b>Project</b>	<b>STP 2002(155)TE</b>
<b>Highway</b>	<b>CS</b>
<b>County</b>	<b>HARRIS</b>

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 2002(155)TE CONTROL: 0912-71-804  
COUNTY: HARRIS  
LETTING: 01/14/2009  
REFERENCE NO: 1230

**PROPOSAL ADDENDUMS**

- \_ PROPOSAL COVER  
\_ BID INSERTS (SH. NO.: )  
X GENERAL NOTES (SH. NO.: A THROUGH P )  
  
\_ SPEC LIST (SH. NO.: )  
\_ SPECIAL PROVISIONS: )  
\_ ADDED:  
  
DELETED:  
  
\_ SPECIAL SPECIFICATIONS:  
\_ ADDED:  
  
DELETED:  
  
X OTHER: PLAN SHEETS 5 THROUGH 5G

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

PROPOSAL SPECIFICATION DATA SHEETS A THROUGH P AND PLAN SHEETS 5 THROUGH 5G:

- (1) CHANGE FIRST PARAGRAPH UNDER GENERAL TO READ: INSTEAD OF PROVIDING A FILED OFFICE AND OFFICE TELEPHONE FOR THE SHORT TERM PROJECT, THE DEPARTMENT WILL PROVIDE A WIRELESS BROADBAND CARD, INTERNET SERVICE PROVIDER, AND A LAPTOP COMPUTER.
- (2) CHANGE WEB LINK UNDER GENERAL: ROADWAY ILLUMINATION AND ELECTRICAL TO READ: [HTTP://WWW.TXDOT.GOV/TXDOT\\_LIBRARY/PUBLICATIONS/BUSINESS/CONSTRUCTION/PRODUCER\\_LIST.HTM](http://www.txdot.gov/txdot_library/publications/business/construction/producer_list.htm)
- (3) CHANGE WEB LINK UNDER ITEM 5: CONTROL OF WORK TO READ: [FTP://FTP.DOT.STATE.TX.US/PUB/TXDOT-INFO/LIBRARY/PUBS/BUS/BRIDGE/E\\_SUBMIT\\_GUIDE.PDF](ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf)
- (4) CHANGE WEB LINK IN LAST NOTE UNDER ITEM 618: CONDUIT TO READ: [http://www.txdot.gov/txdot\\_library/publications/business/construction/producer\\_list.htm](http://www.txdot.gov/txdot_library/publications/business/construction/producer_list.htm)

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**General Notes:**

**General**

Instead of providing a field office and office telephone for this short term project, the Department will provide a wireless broadband card, Internet Service Provider, and a laptop computer.

Notify the Engineer immediately if discrepancies are discovered in the horizontal control or the benchmark data.

The following standard detail sheet is modified:

**Modified Standards**

Concrete Block Retaining Wall RW(CB) (MOD)

References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved, except for roadway illumination, electrical, and traffic signal items.

The cost for materials, labor, and incidentals to provide for traffic across the roadway and for ingress and egress to private property in accordance with Article 7.7 of the standard specifications is subsidiary to the various bid items. Restore access roadways to their original condition upon completing construction.

If a foundation is to be placed where a riprap surface or an asphalt concrete surface presently exists, use caution in breaking out the existing surface for placement. Break out no greater area than is required to place the foundation. After placing the foundation, wrap the periphery with 0.5 in. pre-molded mastic expansion joint. Then replace the remaining portion of the broken out surface with Class A or Class C concrete or cold mix asphalt concrete to the exact slope, pattern, and thickness of the existing riprap or asphalt. Payment for breaking out the existing surface, wrapping the foundation, and replacing the surface is subsidiary to the various bid items.

Stencil the National Bridge Inventory (NBI) number on each existing bridge shown on these plans. The NBI number is shown above the title block for each bridge layout.

Clearly mark or highlight on the shop drawings, the items being furnished for this project. Submit required shop drawings in accordance with the shop drawing distribution list shown in the note for Item 5 for review and distribution.

Request additional soil information for this project at the Area Engineer's office.

The existing Gulfgate Pedestrian Bridge has been tested for Asbestos Containing Materials (ACM) and found to contain greater than 1% ACM and will be abated during construction. The

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ACM were found in the following areas: (textured paint/coating on the concrete along the sides and railing of the Gulfgate Pedestrian Bridge). Further detail can be found in the "ASBESTOS SURVEY FOR Gulfgate Pedestrian Bridge" (August 11, 2006) and the Point Count Report report (October 2006) prepared by EFI Global, Inc. and available at the Area Engineer's Office. Coordinate the overall work with the Specialty Contractor who performs the abating work. The Specialty Contractor, CST Environmental, Inc., is under the contract of Wulfe & Company, represented by Mr. J. Lynn Wilson, whose contact information is: Phone: (713) 621-1700; FAX (713) 621-3244 or email [lwilson@wulfe.com](mailto:lwilson@wulfe.com). The TxDOT Contractor and the Specialty Contractor will be required to coordinate their work in phases necessary for traffic handling with the TxDOT Contractor responsible for securing all lane closures. The Abatement Plan is included in the plans for Contractor's information only.

**General: Roadway Illumination and Electrical**

For roadway illumination and electrical items, use materials from pre-qualified producers as shown on the Construction Division (CST) of the TxDOT material producers list. Use the following website to view this list: [http://www.txdot.gov/txdot\\_library/publications/business/construction/producer\\_list.htm](http://www.txdot.gov/txdot_library/publications/business/construction/producer_list.htm). The category/item is Roadway Illumination and Electrical Supplies. No substitutions will be allowed for materials found on this list.

Perform electrical work in conformance with the National Electrical Code (NEC) and Department standard sheets.

The Contractor may make the electrical grounding connections and permissible splices using the thermal fusion process, Cadweld, Thermaweld or approved equal, instead of bolted connections and splices.

The Area Engineer will arrange with the Contractor, an inspection of the completed electrical systems for the bridge lighting systems before final acceptance for compliance with plans and specifications. The inspection will be made with personnel from the electrical section of the Department's District Transportation Operations Office. The City of Houston electrical division personnel will also inspect lighting systems within the Houston city limits. Portions of the work found to be deficient during this inspection will not be accepted.

If the specifications for electrical items require UL-listed products, this means UL-listed or CSA-listed.

For this project, special lighting specifications exist as well as special light mounting conditions at the pedestrian bridge masts.

The entity paying for the electrical energy for the proposed lighting fixtures on the existing pedestrian bridge is: Gulfgate Partners L.P., Twelve Greenway Plaza, Suite 1500, Houston, Texas 77046-1287; Phone: (713) 621-1700; Fax: (713) 621-3244.

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Electrical services are proposed to be provided from Wulfe & Company's adjacent shopping center north of the pedestrian bridge and trenched over to the north bridge abutment where the meter, panel and controls are to be placed.

**General: Site Management**

Mark stations every 100 ft. and maintain the markings for the project duration. Remove the station markings at the completion of the project. This work is subsidiary to the various bid items.

Do not mix or store materials, or store or repair equipment, on top of concrete pavement or bridge decks unless authorized by the Engineer. Permission will be granted to store materials on surfaces if no damage or discoloration will result.

Personal vehicles of employees are not permitted to park within the right of way, including sections closed to public traffic. Employees may park on the right of way at the Contractor's office, equipment, and materials storage yard sites.

Assume ownership of debris and dispose of at an approved location. Do not dispose of debris on private property unless approved in writing by the District Engineer.

**General: Traffic Control and Construction**

Provide basic cellular telephone service and a portable cellular telephone for the Engineer's use for the duration of the project. This service and telephone are subsidiary to the various bid items.

Before detouring traffic, the Contractor is required to contact the Metropolitan Transit Authority through Mr. Paul E. Weisser, Senior Transit Operations Liaison, at cell # 281-352-1500 or dispatch # 713-864-2264

**General: Utilities**

The approximate locations of known underground utilities are shown in the plans. To prevent damage to or interference with existing underground utilities, contact a utility Notification Center a minimum of 48 hours before starting any excavation near them. The statewide toll-free utility locate number is 800-545-6005, or dial 811. Be prepared to provide the excavation limits or address, type of work, and anticipated duration. The Center will provide a reference number to verify compliance with the Texas Underground Facility Damage Prevention and Safety Act. Be aware that violators may be subject to civil penalty.

This action does not relieve the Contractor of the responsibilities under the terms of the contract on the plans and specifications. Repair any damage caused by the Contractor's operations at no expense to the Department and restore the facilities to service in a timely manner.

Be aware that an operational Computerized Transportation Management System (CTMS) exists within the limits of this project and that the system must remain operational throughout

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construction. Repair any damage to this system within 8 hours of occurrence at no cost to the Department. In the event of system damage, notify TxDOT Traffic Signal Operations (Mr. Doug Vanover at 713-802-5661) within one hour of occurrence. Failure on the part of the Contractor to repair damage to the main fiber optic cable and CCTV cable trunk lines, which convey all corridor information to TranStar, will result in the Contractor being billed for the full cost of emergency repairs.

At least 48 hours before starting work, make arrangements for locating existing TxDOT-owned above ground and underground fiber optic, communications, power, illumination, and traffic signal cabling and conduit. Do this by notifying Mr. Doug Vanover or Ms. Mona Kozman of the TxDOT Houston District Traffic Signal Operations office by telephone at (713) 802-5661 or (713) 802-5895, by fax at (713) 802-5900, or by E-mail at [mkozma1@dot.state.tx.us](mailto:mkozma1@dot.state.tx.us) or [dvanove@dot.state.tx.us](mailto:dvanove@dot.state.tx.us) to schedule marking of underground lines on the ground. Use caution if working in these areas to avoid damaging or interfering with existing facilities.

Install or remove poles and luminaires located near overhead or underground electrical lines using established industry and utility safety practices. Consult the appropriate utility company before beginning such work.

If overhead or underground power lines need to be de-energized, contact the electrical service provider to perform this work. Costs associated with de-energizing the power lines or other protective measures required are at no expense to the Department.

If working near power lines, comply with the appropriate sections of Texas State Law and Federal Regulations relating to the type of work involved.

Perform electrical work in conformance with the National Electrical Code (NEC) and Department standard sheets.

Before beginning any underground work, notify the City of Houston's Chief Inspector, Public Works and Engineering, at (713) 859-3371 to establish the locations of any existing electrical systems for lighting facilities within the limits of this project.

The Contractor is to take extra care in site utility/existing sub-grade construction location verification at new drilled piers for short bridge masts. The Contractor will notify the Engineer if any elements are encountered during drilling.

#### **Item 5: Control of the Work**

The responsibility for the construction surveying on this contract will be in accordance with Article 5.6.B, "Method B".

Submit shop drawings electronically for the fabrication of items as documented in Table 1 below. Information and requirements for electronic submittals can be viewed in the "Guide to

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Electronic Shop Drawing Submittal” which can be accessed through the following web link, [ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e\\_submit\\_guide.pdf](ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf). References to 11 in. x 17 in. sheets in individual specifications for structural items imply electronic CAD sheets.

Table 1

2004 Construction Specification Required Shop/Working Drawing Submittals

Spec Item No.'s	Product	Submittal Required	Approval Required (Y/N)	Contractor/Fabricator P.E. Seal Required	Reviewing Party
7.8	Construction Load Analyses	Y	Y	Y	B
400	Excavation and Backfill for Structures (cofferdams)	Y	N	Y	A
403	Temporary Special Shoring	Y	N	Y	B
420	Formwork/Falsework	Y	N	Y	A
423	Retaining Walls, (calcs req'd.)	Y	Y	Y	C
425	Optional Design Calculations (Prstrs Bms)	Y	Y	Y	B
425	Prestr Concr Sheet Piling	Y	Y	N	B
425	Prestr Concr Beams	Y	Y	N	B
425	Prestr Concr Bent	Y	Y	N	B
426	Post Tension Details	Y	Y	N	B
434	Elastomeric Bearing Pads (All)	Y	Y	N	B
441	Bridge Protective Assembly	Y	Y	N	B
441	Misc Steel (various steel assemblies)	Y	Y	N	B
441	Steel Pedestals (bridge raising)	Y	Y	N	B
441	Steel Bearings	Y	Y	N	B
441	Steel Bent	Y	Y	N	B
441	Steel Diaphragms	Y	Y	N	B
441	Steel Finger Joint	Y	Y	N	B
441	Steel Plate Girder	Y	Y	N	B
441	Steel Tub-Girders	Y	Y	N	B
441	Erection Plans	Y	N	Y	A
449	Sign-Structure Anchor Bolts	Y	Y	N	T
450	Railing	Y	Y	N	A
462	Concrete Box Culvert	Y	Y	Y	C
462	Concrete Box Culvert (Alternate Designs Only, calcs reqd.)	Y	Y	Y	B
464	Reinforced Concrete Pipe (Jack and Bore only; ONLY when requested)	Y	Y	Y	A
465	Pre-cast Junction Boxes, Grates, and Inlets	Y	Y	Y	A
465	Pre-cast Junction Boxes, Grates, and Inlets (Alternate Designs Only, calcs req'd.)	Y	Y	Y	B
466	Headwalls and Wingwalls	Y	N	Y	A
467	Safety End Treatment	Y	Y	Y	A
495	Raising Existing Structure (calcs reqd.)	Y	Y	Y	B
610	Roadway Illumination Supports	Y	Y	Y	T
613	High Mast Illumination Poles (Non-standard only, calcs reqd.)	Y	Y	Y	T
627	Treated Timber Poles	Y	Y	N	T

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644	Special Non-Standard Supports (Bridge Mounts, Barrier Mounts, Etc.)	Y	Y	Y	T
647	Large Roadside Sign Supports	Y	Y	Y	T
650	Cantilever Sign Structure Supports - Alternate Design Cncls.	Y	Y	Y	T
650	Sign Structures	Y	Y	N	T
652	Highway Sign Lighting Fixtures	Y	Y	N	T
654	Sign Walkways	Y	Y	N	T
680	Installation of Highway Traffic Signals	Y	Y	N	T
682	Vehicle and Pedestrian Signal Heads	Y	Y	N	T
684	Traffic Signal Cables	Y	Y	N	T
685	Roadside Flashing Beacon Assemblies	Y	Y	N	T
686	Traffic Signal Pole Assemblies (Steel)	Y	Y	Y	T
687	Pedestal Pole Assemblies	Y	Y	N	T
688	Detectors	Y	Y	N	A
784	Repairing Steel Bridge Members	Y	Y	Y	B
SS	Prestr Concr Crown Span	Y	Y	N	B
SS	Sound Barrier Walls	Y	Y	N	B
SS	Camera Poles (Also SS 6611, 6941, etc)	Y	Y	Y	T
SS	Pedestrian Bridge (Calcs req'd.)	Y	Y	Y	B
SS	Screw-In Type Anchor Foundations	Y	Y	N	T
SS	Fiber Optic/Communication Cable	Y	Y	N	T
SS	Spread Spectrum Radios for Signals	Y	Y	N	T
SS	VIVDS System for Signals	Y	Y	N	T

**Key to Reviewing Party**

<b>A - Area Office</b>	
<b>Area Office</b>	<b>Email Address</b>
Brazoria Area Office	<a href="mailto:HOU-BRZAShpDrwgs@dot.state.tx.us">HOU-BRZAShpDrwgs@dot.state.tx.us</a>
Central Hou Area Office	<a href="mailto:HOU-CHAOShpDrwgs@dot.state.tx.us">HOU-CHAOShpDrwgs@dot.state.tx.us</a>
East Harris Area Office	<a href="mailto:HOU-EHAShpDrwgs@dot.state.tx.us">HOU-EHAShpDrwgs@dot.state.tx.us</a>
Fort Bend Area Office	<a href="mailto:HOU-FBAShpDrwgs@dot.state.tx.us">HOU-FBAShpDrwgs@dot.state.tx.us</a>
Galveston Area Office	<a href="mailto:HOU-GALVAShpDrwgs@dot.state.tx.us">HOU-GALVAShpDrwgs@dot.state.tx.us</a>
Montgomery Area Office	<a href="mailto:HOU-MONTAShpDrwgs@dot.state.tx.us">HOU-MONTAShpDrwgs@dot.state.tx.us</a>
North Harris Area Office	<a href="mailto:HOU-NHAShpDrwgs@dot.state.tx.us">HOU-NHAShpDrwgs@dot.state.tx.us</a>
South Harris Area Office	<a href="mailto:HOU-SHAShpDrwgs@dot.state.tx.us">HOU-SHAShpDrwgs@dot.state.tx.us</a>
Traffic Systems Constr.	<a href="mailto:HOU-TSCShpDrwgs@dot.state.tx.us">HOU-TSCShpDrwgs@dot.state.tx.us</a>
West Harris Area Office	<a href="mailto:HOU-WHAShpDrwgs@dot.state.tx.us">HOU-WHAShpDrwgs@dot.state.tx.us</a>
<b>B - Bridge Engineer</b>	
Bridge Design (TxDOT)	<a href="mailto:HOU-BrgShpDrwgs@dot.state.tx.us">HOU-BrgShpDrwgs@dot.state.tx.us</a>
<b>C - Construction Office</b>	
Construction	<a href="mailto:HOU-ConstrShpDrwgs@dot.state.tx.us">HOU-ConstrShpDrwgs@dot.state.tx.us</a>
	<a href="mailto:HOU-LabShpDrwgs@dot.state.tx.us">HOU-LabShpDrwgs@dot.state.tx.us</a>
<b>T - Traffic Engineer</b>	
Traffic Operations	<a href="mailto:HOU-TrfShpDrwgs@dot.state.tx.us">HOU-TrfShpDrwgs@dot.state.tx.us</a>
Computerized Transportation Management Systems (CTMS)	<a href="mailto:HOU_CTMSshpDrwgs@dot.state.tx.us">HOU_CTMSshpDrwgs@dot.state.tx.us</a>

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**Item 7: Legal Relations and Responsibilities**

Do not initiate activities in a Project Specific Location (PSL), associated with a U.S. Army Corps of Engineers (USACE) permit area, that have not been previously evaluated by the USACE as part of the permit review of this project. Such activities include those pertaining to, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here means materials are delivered to or from the PSL. The permit area includes the waters of the U.S. or associated wetlands affected by activities associated with this project. Special restrictions may be required for such work. Assume responsibility for consultations with the USACE regarding activities, including PSLs that have not been previously evaluated by the USACE. Provide the Department with a copy of consultations or approvals from the USACE before initiating activities.

The Contractor may proceed with activities in PSLs that do not affect a USACE permit area if a self-determination has been made that the PSL is non-jurisdictional or if proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. The Contractor is solely responsible for documenting any determinations that their activities do not affect a USACE permit area. Maintain copies of their determinations for review by the Department or any regulatory agency.

Document and coordinate with the USACE, if required, before hauling any excavation from or hauling any embankment to a USACE permit area by either 1 or 2 below:

**1. Restricted Use of Materials for the Previously Evaluated Permit Areas.**

Document both the Project Specific Locations (PSL) and their authorization. Maintain copies for review by the Department or any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project:

- a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in the Item, "Excavation" is used for permanent or temporary fill (under the Item, "Embankment") within a USACE permit area.
- b. Suitable embankment (under the Item, "Embankment") from within the USACE permit area is used as fill within a USACE evaluated area.
- c. Unsuitable excavation or excess excavation, "Waste" (under the Item, "Excavation"), that is disposed of at a location approved within a USACE evaluated area.

**2. Contractor Materials from Areas Other than Previously Evaluated Areas.**

Provide the Department with a copy of USACE coordination or approvals before initiating any activities for an area within the project limits that has not been evaluated by the USACE or for any off right of way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites:

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- a. The Item, "Embankment" used for temporary or permanent fill within a USACE permit area.
- b. Unsuitable excavation or excess excavation, "Waste" (under the Item, "Excavation"), that is disposed of outside a USACE evaluated area.

The total area disturbed for this project is 1.45 acres. The disturbed area in this project, 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 (to the appropriate MS4 operator when on an off-state system route) and to the local government that operates a separate storm drain system.

This project does not require a U.S. Army Corps of Engineers (USACE) Section 404 Permit before letting, but if a permit is needed during construction, assume responsibility for preparing the permit application. Submit the permit application to the Department's District Environmental Section for approval. Once the permit application is approved, the Department will submit it to the USACE. Assume responsibility for the requested revisions, in coordination with the Department's District Environmental Section.

### **Item 8: Prosecution and Progress**

Prepare, maintain and submit for approval, a Critical Path Method (CPM) project schedule using the latest version available at the time the contract is awarded, of Primavera Project Planner computer software.

The Department will supply bidders, upon written request, one electronic copy of the time determination schedule. The time determination schedule provided is for informational use only and is not intended for bidding or construction purposes.

The Department will not adjust the number of days for the project and milestones, if any, due to differences in opinion regarding any assumptions made in the preparation of the schedule or for errors, omissions, or discrepancies found in the time determination schedule.

Working days will be computed and charged based on a 7-day workweek in accordance with Article 8.3.A.3 and Article 8.3.C.1.

Provide a virus-free computer diskette containing the Primavera construction schedule.

The Lane Closure Assessment Fee is \$3500.00 for closures on IH 610 freeway and \$200.00 for closures on IH 610 frontage roads. This fee applies to the Contractor for closures or obstructions

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that overlap into restricted hour traffic for each hour or portion thereof, per lane, regardless of the length of lane closure or obstruction. For Restricted Hours subject to Lane Assessment Fee refer to the Item, "Barricades, Signs, and Traffic Handling".

**Item 104: Removing Concrete**

Removing concrete curb is paid as a separate bid item if existing pavement on which it rests is not removed at the same time.

**Item 161: Compost**

**Item 162: Sodding for Erosion Control**

**Item 166: Fertilizer**

**Item 168: Vegetative Watering**

Refer to the "Fertilizer, Seed, Sod, Straw, Compost, and Water" standard sheet for material specifications, application rates, and for watering requirements.

**Items 420, and 421: All Concrete Items**

For the Department's concrete cylinder split samples, transport the test cylinders to the Houston District Laboratory located at 7600 Washington Avenue in Houston, or to the appropriate Area Laboratory, when applicable. Transporting the test cylinders is subsidiary to the various bid items.

**Item 416: Drilled Shaft Foundations**

Include the cost for furnishing and installing anchor bolts mounted in the drilled shafts in the unit bid price for the various diameter drilled shafts.

**Item 420: Concrete Structures**

Unless otherwise noted, use Class C concrete with an ordinary surface finish for lighting structure foundations.

**Item 423: Retaining Walls**

The following Concrete Block Retaining Wall Systems are approved:

Keystone Retaining Walls  
Jewell Concrete Products, Inc.  
P.O. Box 7115  
Waco, Texas 78716  
(800) 792-3216

Anchor Wall System  
Pavestone Company  
P.O. Box 1868  
Grapevine, Texas 76051  
(817) 481-5802

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Versa-Loc Retaining Walls  
Palestine Concrete  
2202 Chockhill Rd  
Dallas, Texas 75212  
(972) 263-5077

Amastone Earth Retention Systems  
Blocks and Walls, Inc.  
P.O. Box 1157  
Del Valle, Texas 78617  
(512) 389-0270

Pyramid Blockwalls  
The Reinforced Earth Company  
1331 Airport Freeway, Suite 302  
Eules, Texas 76040-4150  
(817) 283-5503

Stonewall Retaining Walls  
Featherlite Building Products  
P.O. Box 1029  
Austin, Texas 78767  
(512) 472-2424

Mesa Retaining Wall System  
Tensar Earth Technologies, Inc.  
5775-B Glenridge Drive, Suite 450  
Atlanta, Georgia 30328  
(404) 250-1290

Allan Block Retaining Walls  
Eagle Concrete Products  
6415 Hardy Street  
Houston, Texas 77022  
(800) 933-5509

T-Block Retaining Wall System  
T&B Structural Systems  
637 W. Hurst Blvd.  
Hurst, Texas 76053  
(817) 280-9858

Omega Walls  
Shaw Technologies, Inc.  
P.O.Box 654  
Colleyville, Texas 76034  
(817) 427-0997

Rockwood Retaining Walls  
Del Norte Masonry Products  
4560 Ripley Drive  
El Paso, Texas 79922  
(915) 535-2375

Venture Retaining Walls  
Venture Retaining Wall Systems  
1333 West 120th Ave., Suite 312  
Denver, Colorado 80234  
(303) 254-8846

Payment for grout and reinforcing steel is subsidiary to Item 423, "Retaining Walls". Furnish grout materials in accordance to Article 421.2.F of the Item, "Hydraulic Cement Concrete".

**Item 427: Surface Finishes for Concrete**

Provide a Surface Area I finish for structures. Use concrete paint for the surface finish. See plans for colors required for individual surfaces.

The existing paint coating on the concrete railing of the pedestrian bridge was found to contain over 1 percent asbestos, and abatement is necessary. The asbestos abatement will be done by others before new paint is applied by the Contractor. The Abatement Plan is included in the plans for the Contractor's Reference only.

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Prepare and paint concrete bridge surfaces per specification item 427. See sheet 139, PEDESTRIAN BRIDGE RENOVATION TYPICAL SECTION (SHEET 8 OF 8), for more details. Submit Color Samples, before painting, to the Engineer for approval.

**Item 428: Concrete Surface Treatment**

Provide a Class I surface treatment to the following elements: The upper surfaces of the bridge slab, bridge sidewalks and medians, and the inside face of curbs.

**Item 442: Metal for Structures**

Use temperature zone 1 for Charpy V-Notch (CVN) testing.

Interested fabricators for mast arm poles and base plates include: BAARTOL Company, 901 W. Franklin St., Kenton, Ohio 43326 (phone: 419-673-0758). Attn: John Anderson.

**Item 446: Cleaning and Painting Steel**

Paint steel girders with a System II, Class A cleaning per specification item 446. Submit Color Samples, before painting, to the Engineer for approval.

Paint galvanized fence as per specification. Paint fencing wire mesh in the shop and touch up after installation. Submit Color Samples, before painting, to the Engineer for approval.

**Items 496: Removing Structures**

Assume ownership and remove from the project site, items salvaged from the existing bridge.

Do not permit debris resulting from the structure removal or construction activities on the pedestrian bridge to affect IH 610 traffic below.

A limited lead-based paint survey was performed on the Gulfgate Mall Pedestrian Bridge by Phase Engineering, Inc. The report is available at the Area Engineer's office. All test results showed lead levels below the Environmental Protection Agency's 5000 parts per million threshold to consider the paint on the structure as lead-based paint. Properly dispose of the removed old steel. This work is subsidiary to the various bid items.

**Item 502: Barricades, Signs, and Traffic Handling**

Use a traffic control plan for handling traffic through the various phases of construction. Follow the phasing sequence unless otherwise agreed upon by the Area Engineer and the Project Manager. Ensure this plan conforms to the latest "Texas Manual on Uniform Traffic Control Devices" and the latest Barricade and Construction (BC) Standard Sheets.

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Submit changes to the traffic control plan to the Area Engineer. Provide a layout showing the construction phasing, signs, striping, and signalizations for changes to the original traffic control plan.

Furnish and maintain the barricades and warning signs, including the necessary temporary and portable traffic control devices, during the various phases of construction. Place and construct these barricades and warning signs in accordance with the latest "Texas Manual on Uniform Traffic Control Devices" for typical construction layouts.

Cover work zone signs when work related to the signs is not in progress, or when any hazard related to the signs no longer exists.

Erect temporary signs when exit ramps are closed or moved to new locations during construction.

Keep the delineation devices, signs, and pavement markings clean. This work is subsidiary to the Item, "Barricades, Signs, and Traffic Handling".

Before detouring traffic onto the mainlane shoulders, remove dirt, debris, vegetation, and other deleterious material from the surface of the shoulders. Appropriately sign the detour in an approved manner. This work is subsidiary to the various bid items.

Coordinate and schedule the work with the appropriate Metro representative.

Coordinate and correspond with the Department through the Area Engineer or representative. Post static message boards a minimum of 7 days in advance of major traffic pattern changes such as lane closures, ramp closures, and roadway closures. The Area Engineer will notify the public information office a minimum of 7 days in advance of major traffic pattern changes.

Place the static message boards as shown on the plans a minimum of 7 days before major traffic pattern changes, as described above.

Furnish the static message boards shown on the traffic control plan or those necessary for major traffic pattern changes. The static message board standard is included in the plans. The static message board is subsidiary to the Item, "Barricades, Signs, and Traffic Handling".

Cover or remove the permanent signs and construction signs that are incorrect or that do not apply to the current situation for a particular phase.

Do not mount signs on drums or barricades, except those listed in the latest Barricades and Construction standard sheets.

Use plastic drums for both daytime and nighttime hours.

Place positive barriers to protect drop-off conditions greater than 2 ft. within the clear zone that remain overnight.

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Use shadow vehicles with Truck Mounted Attenuators (TMA) for lane closures during construction. Do not reduce the existing number of lanes open to traffic except as shown on the following time schedule:

**One, Two, Three or Four Lane Closure on Freeway**

<b>Day</b>	<b>Daytime Closure Hours</b>	<b>Nighttime Closure Hours</b>	<b>Restricted Hours Subject to Lane Assessment Fee</b>
Monday-Sunday	N/A	9:00 PM – 5:00 AM	5:00 AM – 9:00 PM

**Full Closure (Frontage Roads) Phases 1, 2 & 3**

<b>Day</b>	<b>Daytime Closure Hours</b>	<b>Nighttime Closure Hours</b>	<b>Restricted Hours Subject to Lane Assessment Fee</b>
Monday-Sunday	N/A	9:00 PM – 5:00 AM	5:00 AM – 9:00 PM

For **Phase 4** only, which is for the tensioning of the main and secondary cables to mast arms and railing, one weekend each is allowed for full closure of the freeway and for full closure of the frontage roads as shown on the following time schedule:

**Full Closure (Freeway / Ramps/ Frontage Roads ) –Phase 4 Only  
(Freeway and Frontage Roads shall not be closed concurrently.)**

<b>Day</b>	<b>Daytime Closure Hours</b>	<b>Nighttime Closure Hours</b>	<b>Restricted Hours Subject to Lane Assessment Fee</b>
Saturday-Sunday	5:00 AM -5:00 PM	5:00 PM – 5:00 AM	N/A

The above times are approved for the traffic control conditions listed. The Area Engineer may approve other closure times if traffic counts warrant. The Area Engineer may reduce the above times for special events.

Provide full-time, off-duty, uniformed, certified peace officers, as part of traffic control operations. The peace officers must be able to show proof of certification by the Texas Commission on Law Enforcement Officers Standards. The cost of the officers is paid for on a force account basis.

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Provide 9 portable changeable message signs as shown on the Traffic Control Plan and the special specification Item “Portable Changeable Message Signs.” These changeable message signs are subsidiary to the Item, “Barricades, Signs, and Traffic Handling”.

**Item 506: Temporary Erosion, Sedimentation and Environmental Control**

A Storm Water Pollution Prevention Plan (SW3P) is required. Since the disturbed area is less than 5 acres, a “Notice of Intent” (NOI) is not required.

Use appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. Remove and dispose of materials in compliance with State and Federal laws.

Before starting construction, review with the Engineer the SW3P used for temporary erosion control as outlined on the plans. Before construction, place the temporary erosion and sedimentation control features as shown on the SW3P.

Schedule the sodding work as soon as possible. The project schedule provides for a vegetation management plan.

Implement temporary and permanent erosion control measures to comply with the National Pollution Discharge Elimination System (NPDES) general permit under the Clean Water Act.

**Item 529: Concrete Curb, Gutter, and Combined Curb and Gutter**

**Item 531: Sidewalks**

An air-entraining admixture is not required.

For concrete curbs, use Grade 7 aggregate conforming to Article 421.2 of the Item, “Hydraulic Cement Concrete”.

For reinforcing steel in sidewalks and pedestrian ramps, use No. 4 bars at a maximum 18 in. spacing center-to-center in both directions.

**Item 556: Pipe Underdrains**

Do not use crushed blast furnace slag.

Lay the underdrain pipe on a slope to insure proper drainage.

Tie the under drain pipe into the inlets as shown on the plans.

**Item 616: Performance Testing of Lighting Systems**

The illumination plans provide for a complete illumination system installed, connected, tested, and ready for operation.

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Permit the electrical work to be inspected by the Department and the City. Complying with the provisions and requirements of the City electrical ordinance is not required. The City is not a party to this contract with this inspection.

Adjust the high mast luminaires per the manufacturer's recommendations. Submit the photometrics and obtain approval before placing the luminaires in service. Initially adjust the luminaires during the lamp installation procedure.

After satisfactory completion of tests, place the new lighting fixtures in operation. Final acceptance will be made after the fixtures operate satisfactorily for a minimum period of 14 days. The 14-day test period is included in the allowed working days.

Assume responsibility for the new lighting fixtures during the test period. Make adjustments or repairs as required and repair defects or damage at no expense to the Department.

Pay for the installation charge from the electrical service provider, but not for the electrical energy consumed by the fixtures during the 14-day test period.

**Item 618: Conduit**

When backfilling bore pits, ensure that the conduit is not damaged during installation or due to settling backfill material. Compact select backfill in 3 equal lifts to the bottom of the conduit; or if using sand, place it 2 in. above the conduit. Ensure backfill density is equal to that of the existing soil. Prevent material from entering the conduit.

Construct bore pits a minimum of 5 ft. from the edge of the base or pavement. Close the bore pit holes overnight.

Unless shown on the plans, install underground conduit a minimum of 24 in. deep. Install the conduit in accordance with the latest National Electrical Code (NEC) and applicable Department standard sheets. Place conduit under driveways or roadways a minimum of 24 in. below the pavement surface.

If using casing to place bored conduit, the casing is subsidiary to the conduit.

If placing the conduit under existing pavement to reach the service poles, bore the conduit in place and extend it a minimum distance of 5 ft. beyond the edge of shoulder or the back of curb.

Pull conductors in the PVC conduit only with a nonmetallic pull rope.

Remove conductor and conduit to be abandoned to 1 ft. below the ground level. This work is subsidiary to the various bid items.

Furnish rigid metal conduit for underground conduit bends of 45 degrees or greater in all conduit systems, including bends into ground boxes and foundations. Where the rigid metal conduit is exposed at any point and where rigid metal conduit extends into ground boxes, bond the metal

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conduit to the grounding conductor with grounding type bushings or by other approved, UL-listed grounding connectors approved by the Engineer. Rigid metal bends are subsidiary to the conduit system.

Use materials from prequalified producers as shown on the Construction Division (CST) of the Texas Department of Transportation (TxDOT) material producers list. Use the following website to view this list:

[http://www.txdot.gov/txdot\\_library/publications/business/construction/producer\\_list.htm](http://www.txdot.gov/txdot_library/publications/business/construction/producer_list.htm).

**Item 620: Electrical Conductors**

Test each wire of each cable or conductor after installation. Incomplete circuits or damage to the wire or the cable are cause for immediate rejection of the entire cable being tested. Remove and replace the entire cable at no expense to the Department. Also test the replacement cable after installation.

When pulling cables or conductors through the conduit, do not exceed the manufacturer's recommended pulling tensions. Lubricate the cables or conductors with a lubricant recommended by the cable manufacturer.

Ensure that circuits test clear of faults, grounds, and open circuits.

Split bolt connectors are allowed only for splices on the grounding conductors.

Do not use non-certified persons to perform electrical work. See Item 7, Section 7.15 "Electrical Requirements" for additional details.

**Item 1014: Landscape Amenity**

Each landscape amenity pay item pays for both a precast panel (plain) and a precast panel (star cutout) shown on sheet 157, Pedestrian Bridge Arch Illumination Details (sheet 2 of 3).

**Item 4361: Vectran Cable Assembly**

Any change to cabling material in anyway may affect the bridge cabling design and must be approved by the Structural Engineer of record.