

**STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND
DEVELOPMENT**

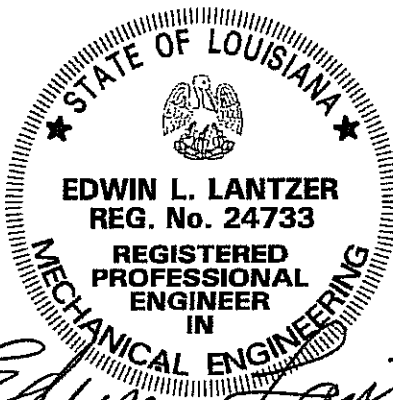
CONSTRUCTION PROPOSAL



FEDERAL AID PROJECT

**STATE PROJECT NOS. 450-08-0051, 450-09-0025, 450-09-0026
and 450-10-0140**

**PORT ALLEN – BATON ROUGE
(LA 1 – WASHINGTON STREET OVERPASS)
ROUTE I-10
EAST and WEST BATON ROUGE PARISHES**



Edwin Lantzer
10 FEBRUARY 2009

STATE PROJECT NOS. 450-08-0051, 450-09-0025, 450-09-0026 and 450-10-0140

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NOTICE TO CONTRACTORS (11/08)

Electronic bids and electronic bid bonds for the following project will be downloaded by the Department of Transportation and Development (DOTD) on **Wednesday, March 18, 2009**. **Paper bids and paper bid bonds will not be accepted.** Electronic bids and electronic bid bonds must be submitted through www.bidx.com prior to the electronic bidding deadline. Beginning at 10:00 a.m., all bids will be downloaded and posted online at <http://www.dotd.la.gov/cgi-bin/construction.asp>. No bids are accepted after 10:00 a.m.

DBE GOAL PROJECT

STATE PROJECT NOS. 450-08-0051, 450-09-0025, 450-09-0026 and 450-10-0140

FEDERAL AID PROJECT NO. 6104(502)

DESCRIPTION: PORT ALLEN – BATON ROUGE (LA 1 – WASHINGTON ST. OVERPASS)

ROUTE: I-10

PARISHES: WEST BATON ROUGE and EAST BATON ROUGE

LENGTH: 2.721 miles.

TYPE: BRIDGE REHABILITATION, SIGNING AND RELATED WORK.

LIMITS: State Project No. 450-08-0051: LOCATED ON ROUTE I-10 FROM 0.025 MILE WEST OF THE MISSISSIPPI RIVER BRIDGE APPROACH to THE WEST END OF THE MISSISSIPPI RIVER BRIDGE.

LIMITS: State Project Nos. 450-09-0025 & 450-09-0026: LOCATED ON ROUTE I-10 FROM THE WEST END OF THE MISSISSIPPI RIVER BRIDGE to THE EAST END OF THE MISSISSIPPI RIVER BRIDGE.

LIMITS: State Project No. 450-10-0140: LOCATED ON ROUTE I-10 FROM THE EAST END OF THE MISSISSIPPI RIVER BRIDGE to 0.86 MILE EAST OF THE EAST END OF THE MISSISSIPPI RIVER BRIDGE.

ESTIMATED COST RANGE: \$10,000,000 to \$15,000,000

PROJECT ENGINEER: PALERMO, JOSEPH; 810 South River Road, Port Allen, LA 70767. (225) 342-7570.

PROJECT MANAGER: COLVIN, JODY.

Bids must be prepared and submitted in accordance with Section 102 of the 2006 Louisiana Standard Specifications for Roads and Bridges as amended by the project specifications, and must include all information required by the proposal.

NOTICE TO CONTRACTORS (CONTINUED)

Paper plans and/or proposals may be obtained in Room 101-A of the DOTD Headquarters Administration Building, 1201 Capitol Access Road in Baton Rouge, or by contacting the DOTD; Email: sharonknight@dotd.la.gov, Phone (225) 379-1111, FAX: (225) 379-1714, or by written requests sent to the Louisiana Department of Transportation and Development, Project Control Section, P. O. Box 94245, Baton Rouge, LA 70804-9245. Proposals will not be issued later than 24 hours prior to the time set for opening bids. All Addenda, Amendments, Letters of Clarification, and Withdrawal Notices will be posted online. **Paper notices will not be distributed.** Construction proposal information may be accessed via the Internet at www.dotd.la.gov. From the LA DOTD home page, select the following options: **Doing Business with DOTD**, then **Construction Letting Information**. Once the **Construction Letting Information** page appears, find the **Notice to Contractors** box. From the drop down menu, select the appropriate letting date and press the "Go To" button to open the page, which provides a listing of all projects to be let and a **Construction Proposal Documents** link for each project. All project specific notices are found here. **It will be the responsibility of the bidder to check for updates.** If paper copies of the proposal are desired, the proposal cost is \$25.00. If paper copies of the plans are desired, the cost of the plans is \$20.00 for complete plans. The purchase price for paper plans and proposals is non-refundable. Additionally, plans and specifications may be seen at the Project Engineer's office or in Room 101-A of the DOTD's Headquarters Administration Building in Baton Rouge. Upon request, the Project Engineer will show the work.

All questions concerning the plans shall be submitted via the Electronic Plans Distribution Center known as **Falcon**. Questions submitted within 96 hours of the bid deadline may not be answered prior to bidding. Falcon may be accessed via the Internet at www.dotd.la.gov. From the home page, select **Doing Business with DOTD** from the left-hand menu, then select **Construction Letting Information** on the pop-up menu. On the Construction Letting Information page, select the link, ***DOTD's Plan Room***. Login to Falcon (or request an ID if a first-time user). Once logged in, you will have access to view Project Information, submit a question concerning the project, and view the plans. All submitted questions will be forwarded by email to the Project Manager and the Project Engineer for a response.

The U. S. Department of Transportation (DOT) operates a toll free "Hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should call 1-800-424-9071. All information will be treated confidentially and caller anonymity will be respected.

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GENERAL BIDDING REQUIREMENTS (08/06): The specifications, contract and bonds governing the construction of the work are the 2006 Edition of the Louisiana Standard Specifications for Roads and Bridges, together with any supplementary specifications and special provisions attached to this proposal.

Bids shall be prepared and submitted in accordance with Section 102 of the Standard Specifications.

The plans herein referred to are the plans approved and marked with the project number, route and Parish, together with all standard or special designs that may be included in such plans. The bidder declares that the only parties interested in this proposal as principals are those named herein; that this proposal is made without collusion or combination of any kind with any other person, firm, association, or corporation, or any member or officer thereof; that careful examination has been made of the site of the proposed work, the plans, Standard Specifications, supplementary specifications and special provisions above mentioned, and the form of contract and payment, performance, and retainage bond; that the bidder agrees, if this proposal is accepted, to provide all necessary machinery, tools, apparatus and other means of construction and will do all work and furnish all material specified in the contract, in the manner and time therein prescribed and in accordance with the requirements therein set forth; and agrees to accept as full compensation therefore, the amount of the summation of the products of the quantities of work and material incorporated in the completed project, as determined by the engineer, multiplied by the respective unit prices herein bid.

It is understood by the bidder that the quantities given in this proposal are a fair approximation of the amount of work to be done and that the sum of the products of the approximate quantities multiplied by the respective unit prices bid shall constitute gross sum bid, which sum shall be used in comparison of bids and awarding of the contract.

The bidder further agrees to perform all extra and force account work that may be required on the basis provided in the specifications.

The bidder further agrees that within 15 calendar days after the contract has been transmitted to him, he will execute the contract and furnish the Department satisfactory surety bonds.

If this proposal is accepted and the bidder fails to execute the contract and furnish bonds as above provided, the proposal guaranty shall become the property of the Department; otherwise, said proposal guaranty will be returned to the bidder; all in accordance with Subsection 103.04.

MANDATORY ELECTRONIC BIDS AND ELECTRONIC BID BONDS SUBMISSION (10/08): This project requires mandatory electronic bidding. All Specifications, whether Standard, Supplemental or Special Provisions, are hereby amended to delete any references regarding paper bids and the ability to submit paper bid forms.

The contractor shall register online to be placed on the Louisiana Department of Transportation and Development (LA DOTD) prospective bidders list or for information only list.

Modifications to proposal documents will be posted on the Department's website at the following URL address: www.dotd.la.gov/cgi-bin/construction.asp.

LA DOTD shall not be responsible if the bidder cannot complete and submit a bid due to failure or incomplete delivery of the files submitted via the internet.

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DBE PARTICIPATION IN FEDERAL AID CONSTRUCTION CONTRACTS (02/07):

This project is a DBE goal project. In accordance with the Required Contract Provisions for DBE Participation in Federal Aid Construction Contracts elsewhere herein, the DBE goal for approved subcontracting work on this project is **10 percent** of the total contract bid price. The contractor shall submit DOTD Form OMF-1A (Request to Sublet) and have it approved by the Department before any subcontract work is done on the project. Only those businesses certified by the Department as Disadvantaged Business Enterprises (DBEs) may be utilized in fulfillment of the DBE goal requirement. Such businesses are those certified by the Louisiana Unified Certification Program on the basis of ownership and control by persons found to be socially and economically disadvantaged in accordance with Section 8(a) of the Small Business Act, as amended and Title 49, Code of Federal Regulations, Part 26 (49 CFR 26).

PARTICIPATION IN JOB TRAINING (11/95): If the contractor desires to participate in job training, as provided by Supplemental Specifications elsewhere herein, he shall submit a written request to the project engineer with a copy to the Construction Section. The number of trainees to be trained under this contract will be **one**. For the purposes of reimbursement, this number of trainees has been translated into an estimated **one thousand trainee hours**. The pay item for Trainee Reimbursement, will be established in the contract in accordance with the Supplemental Specifications for Job Training and the above hours.

BUY AMERICA PROVISIONS (03/95): Pursuant to the "Buy America Provisions" of the Surface Transportation Assistance Act (STAA) of 1982 as promulgated by current FHWA regulation 23 CFR 635.410 and the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) amendment to (STAA), all steel and iron materials permanently installed on this project shall be manufactured, including application of a coating, in the United States, unless a waiver of these provisions is granted. Coating includes all processes which protect or enhance the value of the material to which the coating is applied. The request for waiver must be presented in writing to the Department by the contractor. Such waiver may be granted if it is determined that:

(1) The application of Buy America Provisions would be inconsistent with the public interest or

(2) Such materials are not produced in the United States in sufficient and reasonably available quantities and of a satisfactory quality.

Minimal use of foreign steel and iron materials will be allowed without waiver provided the cost of these materials does not exceed 0.1 percent of the total contract cost or \$2,500, whichever is greater; however, the contractor shall make written request to the DOTD Construction Engineering Administrator for permission to use such foreign materials and shall furnish a listing of the materials, their monetary value, and their origin and place of production.

The burden of proof for the origin and place of production and any request for waiver is the responsibility of the contractor.

Prior to the use of steel and iron materials in the project, the contractor shall furnish Mill Test Reports to the engineer for such steel and iron materials, accompanied by a notarized certification stating that the Mill Test Reports represent the steel and iron materials to be furnished and that such materials were produced and fabricated in the United States.

Pig iron and processed, pelletized, and reduced iron ore are exempt from the Buy America Provisions.

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AWARD OF CONTRACT: Subsection 103.02, Award of Contract, is amended to include the following.

The award of contract, if awarded, will be made to the lowest responsible bidder on the total of the General Items (base bid) plus Alternate A1 (steel piping), or plus Alternate A2 (fiberglass piping), or General Items plus A1 or A2 plus Additive Alternates D1, in accordance with LSA R.S. 48:252(B)(6)(a). The combination used will be selected for award based on available funds.

INTENT OF CONTRACT (11/95): Subsection 104.01, Intent of Contract, is amended to include the following.

(a) Covenant of Good Faith and Fair Dealing.

This contract imposes an obligation of good faith and fair dealing in its performance and enforcement.

The contractor and the Department agree from the beginning to focus on creative cooperation, to avoid adverse confrontation, and to foster mutual respect, along with a positive commitment to honesty and integrity, and agree to the following mutual duties.

- (1) Each will function within the laws and statutes applicable to their duties and responsibilities.
- (2) Each will communicate in an open and candid manner.
- (3) Each will assist in the other's performance.
- (4) Each will avoid hindering the other's performance.
- (5) Each will proceed to fulfill its obligations diligently.
- (6) Each will cooperate in the common endeavor of the contract.

(b) Voluntary Partnering.

The Louisiana Department of Transportation and Development intends to encourage the foundation of a cohesive partnership with the contractor and its principal subcontractors and suppliers. This partnership will be structured to draw on the strengths of each organization to identify and achieve reciprocal goals. The objective is a cooperative approach to contract management that will reduce costs, litigation, and "stress" while completing the project in accordance with the plans and specifications.

This partnership will be bilateral in makeup, and participation in partnering will be totally voluntary and is not a requirement of the contract.

A partnering conference is to be implemented and held prior to beginning construction. The contractor's management personnel and the Project Engineer will initiate a partnering development conference. They, working with the assistance of the District Construction Engineer, will make arrangements to determine the facilitator, the attendees at the conference, agenda of the conference, duration, and location. Persons required to be in attendance will be the Project Engineer and key project personnel; the contractor's on-site project manager and key project supervision personnel of both the prime and principal subcontractors and suppliers. The project design engineers, FHWA, key company representatives, and key local government personnel will also be invited to attend as necessary. The contractor and DOTD will also be required to have Regional/District and Corporate/State level managers on the project team.

Any cost associated with effectuating this partnering will be agreed to by both parties and will be shared equally and will be paid for in accordance with Subsection 109.04. The contractor, DOTD, FHWA and all others invited to the partnering conference will be responsible for any expenses incurred by their respective employees which includes salaries, travel, and lodging.

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Follow-up conferences may be held periodically throughout the duration of the contract as agreed by the contractor and the DOTD.

The establishment of a partnership charter on a project will not change the legal relationship of the parties to the contract nor relieve either party from any of the terms of the contract. This partnership charter is intended only to establish an environment of cooperation and communication between all parties involved with the completion of the project.

MAINTENANCE OF TRAFFIC (11/13/08): Subsection 104.03 of the 2006 Standard Specifications is amended to include the following requirements.

The contractor shall provide for and maintain through and local traffic at all times and shall conduct his operations in such manner as to cause the least possible interference with traffic at junctions with roads, streets and driveways.

The contractor shall direct special attention to the maintenance of traffic at entrance and exit ramps particularly when construction operations are being conducted on the adjacent travel lanes of interstate highways. Additional signs, barricades, channelizing devices, etc. shall be provided and maintained by the contractor as directed by the engineer and their cost shall be included in the prices bid on the Temporary Signs and Barricades pay items.

The roadway and shoulders shall remain open to traffic as much as possible during nonwork periods as directed by the engineer. During the period that all lanes are open to traffic, the contractor shall neither store material nor park equipment on roadway shoulders.

LANE CLOSURE RESTRICTIONS: All lanes shall remain open to traffic and no work shall be performed except during the times when lane closures are allowed unless otherwise approved by the Project Engineer. Lane closures shall only be allowed while work is being performed. When lane closures are allowed, a minimum of one travel lane per direction shall remain open to traffic at all times except as stipulated below.

Lane closures on the Mississippi River Bridge shall be permitted as follows:

10 pm – 11 pm	Detour setup, contractor setup, and begin traffic detour via LA 415, US 190, and I-110.
11 pm – 4:30 am	Overhead sign truss work.
4:30 am – 5 am	Detour removal, reopen to traffic.

Closure of two lanes on the Mississippi River Bridge shall be permitted as follows:

10 pm – 5 am	Monday thru Thursday.
12 am – 6 am	Friday thru Saturday.

Total lane closure for the 1-10 bridge shall be allowed between 1:00am and 3:00am Monday thru Saturday or as directed by the project engineer.

Lane closures for LA 1 & ramps shall be as follows:

12 am – 4 am	Monday thru Thursday.
1 am – 5 am	Friday and Saturday or as directed by the project engineer.

No work will be allowed, all lanes shall be open, and all time charges will stop during the New

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Years, Mardi Gras, Easter, Memorial Day, Independence Day, Labor Day, Thanksgiving and Christmas holiday periods or during LSU or SELU home football game weekends as defined by the project engineer. No work will be allowed, all lanes shall be open, and all time charges will stop during any contraflow operations.

LATE LANE OPENING PENALTIES: A late lane opening penalty shall be charged to the contractor for any lane closure on any roadway or ramp which extends beyond the allowable closure times. The penalty shall include short-term closures due to moving operations. The penalty shall be computed in hour increments only with fractions of an hour rounded up to the next whole hour. The penalty shall be assessed as per the following table:

Length of closure beyond the allowable closure times	Hourly penalty as a percentage of the daily penalty
First Hour	25%
Second Hour	25%
Third Hour	25%
Fourth Hour	25%
Remaining Hours	No additional penalty

The late lane opening penalty shall be assessed at a rate of \$60,000 per day per lane. Any monies assessed for late lane opening penalties shall be deducted from partial payments due the contractor as stipulated damages.

TEMPORARY MEDIAN CROSSOVERS (05/08): The Standard Specifications is amended to include the following.

Temporary median crossovers must conform to the requirements of EDSM Number IV.1.1.14, Median Crossovers on Interstate Highways, and the following.

The contractor may construct a limited number of temporary median crossovers for use of construction equipment. The number, location and design of the crossovers shall be approved by the engineer.

The contractor shall provide and maintain the appropriate signing and flaggers during use of the crossovers. The use of the crossovers and proper signing shall be as approved by the engineer. Crossovers shall be barricaded as directed when not in use.

Maintenance and removal of the crossovers will be the responsibility of the contractor.

All materials, equipment and labor used in the construction, maintenance and removal of temporary construction crossovers shall be at no direct pay.

PUBLIC CONVENIENCE AND SAFETY (09/05): Subsection 107.07 of the Standard Specifications is amended to include the following.

The procurement of police officers for public safety during construction shall be in accordance with the Department's Policy for Use of Police Officers in Construction/Maintenance Work Zones. The DOTD project engineer shall determine the need for police officers to assist in controlling traffic in a particular work zone. The number of officers needed, the tasks they will perform, and their location within the work zone will vary as a function of the zone type. Police officers shall be placed at strategic locations at times during construction as determined by the DOTD project engineer.

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The three types of law enforcement services are Police Presence, Police Enforcement and Police Traffic Control. Police Presence is defined as the use of police officers at the beginning of the active work zone area utilizing their blue lights to gain the attention of drivers. Police Enforcement is utilized when enforcement is required to enhance the safe operation of the work zone. Police Traffic Control is to be used in detour / diversion situations.

The DOTD project engineer will extend an invitation to the appropriate Louisiana State Police (LSP) Troop Commander to attend the pre-construction conference.

Prior to commencing the work on the project, the contractor shall contact the LSP Troop Commander to obtain law enforcement services of police officers during construction. If the LSP Troop is unable to provide law enforcement services for the project work zone, the LSP Troop Commander or the contractor will extend the invitation to the appropriate local law enforcement authorities.

Police officers will report directly to the contractor. However, the contractor will not have the authority to direct the placement of the police officer or the patrol vehicle in situations that are contrary to established procedures and/or could endanger the police officer. The DOTD project engineer will make the final determination on all issues regarding police officer responsibility in work zones.

Prior to the beginning of the shift, the contractor shall provide a daily work zone briefing to the police officer. For major changes in traffic patterns, advanced notification shall be provided to the police agency working the detail. This information should also be provided to the motoring public through the DOTD district and / or the LSP Troop.

The contractor shall pay for law enforcement services provided by the police officers based on the hourly wage and vehicle rate fee schedule below. The Department will reimburse the contractor monthly for the incurred cost. The contractor shall furnish time record documentation with the request for reimbursement. The provisions of Subsection 109.04 shall not apply to this reimbursement.

The agreed upon fee schedule for police officers in the work zone is as follows:

\$25 per vehicle per day - vehicle use fee

\$40 per hour per officer (one officer per vehicle) (minimum 2 hours).

SUBLETTING OF CONTRACT (01/83): In accordance with Subsection 108.01 of the Standard Specifications, the following items are designated as "Specialty Items":

Item 704-01-A, Guard Rail (Single Thrie Beam)(3' 1½" Post Spacing)

Item 704-06-A, Guard Rail Anchor Sections (Trailing End)(Single Thrie Beam)

Item 704-07-A, Guard Rail Bridge Attachments (Single Thrie Beam)

Item 704-08-A, Guard Rail Transitions (Single Thrie Beam)

Item 729-01, Sign (Type A)

Item 729-02, Sign (Type B)

Item 729-04, Sign (Type D)

Item 729-05, Sign (Type E)

Item 729-06, Sign (Overhead Mounted)

Item 729-08-A, Mounting (2 ½" Post)

Item 729-08-B, Mounting (3 ½" Post)

Item 729-08-B-01, Mounting (3 ½" Post) (Structure Mount)

Item 729-08-F, Mounting (W6 x 12)

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Item 729-08-F-01, Mounting (W6 x 12) (Structure Mount)
Item 729-09-A, Mounting (Overhead Truss) (Ground Mounted) (36' Span)
Item 729-09-B, Mounting (Overhead Truss) (Ground Mounted) (48' Span)
Item 729-09-C, Mounting (Overhead Truss) (Ground Mounted) (66' Span)
Item 729-09-D, Mounting (Overhead Truss) (Ground Mounted) (72' Span)
Item 729-09-E, Mounting (Overhead Truss) (Ground Mounted) (78' Span)
Item 729-09-F, Mounting (Overhead Truss) (Ground Mounted) (84' Span)
Item 729-13, Mounting (Bridge Fascia Mounted)
Item 729-18, Milepost Assembly (Structure Mounted)
Item 729-18-A, Milepost Assembly (Structure Mounted) (Secondary)
Item 729-20, Footing for Overhead Mountings (Truss)
Item 729-21, U-Channel Post
Item 730-11, Removal and Disposal of Electrical Equipment
Item 731-02, Reflectorized Raised Pavement Markers
Item 732-02-A, Plastic Pavement Striping (Solid Line)(4" Width)
Item 732-02-C, Plastic Pavement Striping (Solid Line)(8" Width)
Item 732-02-E, Plastic Pavement Striping (Solid Line)(24" Width)
Item 732-03-A-01, Plastic Pavement Striping (Broken Line)(4" Width) Preformed Marking Tape (Type V)
Item 732-04-F-01, Plastic Pavement Legend & Symbols (Exit Only)(Preformed Marking Tape – Type V)
Item 732-04-F-04, Plastic Pavement Legends & Symbols (Preformed Heat-Applied Retroreflective Thermoplastic Shields)(125 mils)(60"x180")
Item 732-05, Removal of Existing Markings
Item S-002, Dynamic Message Sign Unit

PROSECUTION OF WORK (12/08): Subsection 108.04, Prosecution of Work of the Standard Specifications as amended by the supplemental specifications thereto, is further amended as follows.

108.04 PROSECUTION OF WORK.

Subpart (a), General is deleted and the following substituted.

(a) General: The contractor shall provide sufficient materials, equipment and labor to complete the project in accordance with the plans and specifications within the contract time. If the completed work is behind the approved progress schedule, the contractor shall take immediate steps to restore satisfactory progress and shall not transfer equipment or forces from uncompleted work without prior notice to, and approval of, the engineer. Each item of work shall be prosecuted to completion without delay. If prosecution of the work is discontinued for an extended period of time, the contractor shall give the engineer written notice at least 24 hours before resuming operations. The contractor's progress will be determined monthly at the time of each partial estimate, and will be based on the total amount earned by the contractor as reflected by the partial estimate. If the contractor's progress is behind more than 20 percent behind the elapsed contract time, the contractor may be notified that he is not prosecuting the work in an acceptable manner. If requested by the Department the contractor must meet with and provide the project engineer with an acceptable written plan which details how the contractor will re-gain

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lost progress and prosecute remaining work. If the contractor's progress is more than 30 percent behind the elapsed contract time, the contractor and the surety will be notified that he is not prosecuting the work in an acceptable manner. The contractor must meet with and provide the project engineer with an acceptable written plan which details how the contractor will re-gain lost progress and prosecute remaining work.

Subpart (b), Disqualification is deleted and the following substituted.

(b) Disqualification: A contractor who is in default in accordance with Subsection 108.09(a)(1) of and progress is deficient by 10 percent or more shall be immediately disqualified. The contractor shall remain disqualified until the project has received a final inspection and has been recommended for final acceptance. Should the surety or the Department take over prosecution of the work, the contractor shall remain disqualified for a period of one year from the completion of the project, unless debarment proceedings are instituted.

During the period of disqualification, the contractor will not be permitted to bid on contracts nor be approved as a subcontractor on contracts. Any bid submitted by the contractor during the period of disqualification will not be considered and will be returned.

PAYMENT ADJUSTMENT (05/06): Section 109, Measurement and Payment of the Standard Specifications is amended to add the following.

This project is not designated for payment adjustments for asphalt cements or fuels.

TEMPORARY TRAFFIC CONTROL (09/08): Section 713 of the 2006 Standard Specifications and the Supplemental Specifications is amended as follows:

Subsection 713.04, Temporary Signs and Barricades, is amended to include the following:

(d) Project Signs: The contractor shall furnish, install, maintain, and upon completion of the project remove "project signs" in accordance with the following requirements.

Project signs shall conform to the requirements of Section 713 and the project sign detail contained elsewhere herein. Shop drawings will be furnished to the successful bidder by contacting the Department's Traffic Services Sign Shop at (225) 935-0121 or (225) 935-0142.

Project signs shall be required at the beginning and end of the project and shall follow sign G-20-1, "Road Work Next 'X' Miles", or as directed by the engineer.

Payment for project signs shall be included in the contract unit price for Item 713-01 Temporary Signs and Barricades.

TEMPORARY PRECAST CONCRETE BARRIERS (08/06): Subsection 713.05 of the standard specifications is amended to include the following.

Temporary precast concrete barriers to be furnished by the Department are stored at Route LA 73 at Route LA 612, 0.2 mile from I-10. The contractor shall load and transport the barrier units to the work site as directed. After completion of the work the barrier units shall be returned to the storage site by the contractor.

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PLASTIC PAVEMENT MARKINGS (09/07): Section 732 of the 2006 Standard Specifications and the supplemental specifications thereto, is amended as follows.

Subsection 732.03, Construction Requirements for Plastic Pavement Marking Material.

Heading (a) is amended as follows.

The first paragraph is deleted and the following substituted.

(a) Equipment for Standard (Flat) Thermoplastic Marking Material: The application equipment shall consist of an extrusion die or a ribbon gun that simultaneously deposits and shapes lines at a thickness of 90 mils (2.3 mm) or greater on the pavement surface. When restriping onto existing thermoplastic markings, only a ribbon gun shall be used. Finished markings shall be continuous and uniform in shape, and have clear and sharp dimensions. Applicators shall be capable of producing various widths of traffic markings. Applicators shall produce sharply defined lines and provide means for cleanly cutting off stripe ends and applying broken lines. The ribbon extrusion die or shaping die shall not be more than 2 inches (50 mm) above the roadway surface during application. A spray application will only be allowed when applying 40 mil (1.0 mm) thermoplastic.

Heading (e) is deleted and the following substituted.

(e) Application of Surface Primer: A single component surface primer will be required prior to placement of preformed plastic markings over an existing painted stripe, over oxidized asphalt, or when striping over existing thermoplastic on portland cement concrete surfaces unless otherwise directed by the engineer. A two component epoxy primer sealer will be required prior to placement of thermoplastic materials on portland cement concrete surfaces unless otherwise directed by the engineer.

ITEM S-001, PORTABLE IMPACT ATTENUATOR (CONSTRUCTION ZONE):

This work consists of furnishing and maintaining a portable impact attenuator (construction zone) to be used at locations designated approved by the Project Engineer.

Upon completion of the project the attenuator shall become the property of the contractor.

Measurement for furnishing and maintaining portable impact attenuator (construction zone), will be per each and payment will include all compensation for said furnishing and maintaining including all attaching devices, labor, materials, tools and incidentals required for this item.

Payment will be made for each portable impact attenuator installed and accepted in place.

Payment will be made under:

Item S-001, Portable Impact Attenuator (Construction Zone), per each.

ITEM S-002, DYNAMIC MESSAGE SIGN UNIT (10/06)

This work consists of furnishing, operating and maintaining solar powered portable variable (changeable) message signs to be used at locations designated on the plans or as directed by the engineer.

The variable message sign shall be in good operational condition when delivered to the job site. The engineer will inspect the signs, and if they are found to be in good operational condition with all working parts functioning, the signs will be approved for use on the project.

The message sign shall consist of three separate lines. Each line shall consist of eight characters. Each character shall nominally be 18 inches (450 mm) in height. The width shall be adequate to meet the below legibility requirements. Each character shall be a 5 x 7 LED module

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or hybrid LED disk. Characters shall be separated at a distance such that the legibility requirements are maintained.

All internally illuminated portions of the sign shall be amber in color. All other illuminated surfaces meant for message display shall be fluorescent yellow. All other surfaces on the front panel shall be flat black in color.

The sign shall be clearly visible under all conditions and all lanes of travel from a distance of 1000 feet (300 m) perpendicular to the sign center. The sign shall maintain this legibility throughout the entire project. The contractor shall be responsible for maintaining this minimum legibility. Determination of legibility distance shall rest solely with the engineer.

The portable changeable message sign shall be used in conjunction with other traffic signs and devices in accordance with the plans, project specifications and as directed by the engineer.

The signs shall be stored in an approved secure storage area when not in use. The contractor shall be required to perform all maintenance operations recommended by the manufacturer and keep adequate records of such operations.

The signs shall be kept clean and in good repair at all times. This includes keeping unit clean.

Measurement of the variable message sign unit will be per each.

Payment for the variable message signs will be made at the contract unit price per each which will be full compensation for furnishing, operating, relocating and maintaining the unit during the life of the contract and includes all equipment, tools, labor and incidentals necessary for the item of work.

Payment will be made under:

Item S-002, Dynamic Message Sign Unit, per each.

ITEM S-003, REMOVING AND REINSTALLING GUARD RAIL:

This item consists of removing and reinstalling guard rail in accordance with plan details, field dimensions, the Standard Specifications, Standard Plans GR-200 and GR-201, and as directed by the Project Engineer.

Measurement for removing and reinstalling guard rail will be per linear feet and payment will include all compensation for removing and reinstalling guard rail, furnishing and installing all necessary guard rail components required on Standard Plan GR-200 and GR-201, labor, materials, tools and incidentals required to complete this item.

Payment will be made for each linear feet of removing and reinstalling guard rail accepted in place.

Payment will be made under:

Item S-003, Removing and Reinstalling Guard Rail, per linear foot.

ITEM S-004-A, RE-ROUTING CONDUIT AT SIGN LOCATION 4-8, and ITEM S-004-B, RE-ROUTING CONDUIT AT SIGN LOCATION 5-6:

Item Description

This item consists of furnishing all labor, equipment, tools, materials, measurements, and incidentals necessary to re-route existing conduit as shown in the plans and as detailed in this specification for the two sign locations listed below.

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Re-routing Conduit at Location 4-8

At sign location 4-8, conduit relocation shall consist of sweeping two existing 6" diameter FRE conduits between the new sign truss and existing guardrail. This shall be accomplished by modification of the existing hanger brackets to provide a gentle transition to the new mounting location. In no case shall the re-routing at this location cause damage to the conduit, innerduct or fiber optic cable within. The existing conduit, innerduct and fiber optic cable shall remain in place and in service throughout the project. Cutting and splicing of the fiber optic cable shall not be allowed.

Re-routing Conduit at Location 5-6

At sign location 5-6, conduit relocation shall consist of re-routing existing rigid aluminum conduit for roadway lighting from below the road deck to the outside of the guardrail. The contractor shall install new aluminum junction boxes and conduit bodies on each side of the new sign truss location and shall install new conduit to transition to the back of the guardrail from the new junction boxes. New conductors shall be routed in the new conduit and spliced into existing circuits within the new junction boxes. Conduit bends shall be of a radius greater than or equal to six times the nominal diameter of the conduit.

Measurement

Re-routing existing conduit shall be measured on a lump sum basis per each sign location.

Payment

Payment for re-routing existing conduit shall be made at the contract lump sum price for each location.

Item Number	Pay Item	Pay Unit
S-004-A	Re-routing Conduit at Sign Location 4-8	Lump Sum
S-004-B	Re-routing Conduit at Sign Location 5-6	Lump Sum

ITEM S-101-A, STEEL SUPPORT BRACKET – LOCATION 5-6; ITEM S-101-B, STEEL SUPPORT BRACKET – LOCATION 5-1; ITEM S-101-C, STEEL SUPPORT BRACKET – LOCATION 4-9; and ITEM S-101-D, STEEL SUPPORT BRACKET – LOCATION 4-8:

S-101.01 Item Description

This item consists of furnishing all Labor, Equipment, Tools, Materials, Measurements, and Incidentals necessary for the construction and installation of steel support brackets for truss locations 4-8, 4-9, 5-1, and 5-6 located on the East and West Mississippi River Bridge Approaches in accordance with the Plans, Standard Specifications and the provisions of this article. Steel support brackets are defined as an entire assembly necessary for affixing the

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overhead or cantilever trusses at locations 4-8, 4-9, 5-1, and 5-6, including fabricated plate assembly for connecting sign truss, interior bracing consisting of MC 18x58 sections, L6x4x1/2 clip angles, and all necessary hardware such as anchor rods, washers, and nuts, along with EPDM pads.

S-101.02 Materials

Materials shall comply with the following Sections and Subsections of the Standard Specifications:

Structural Metals	807
Painting and Protective Coatings	811

Plates, angles, and channels shall be ASTM A709 Grade 50. Anchor rods for affixing sign truss to steel support bracket shall conform to ASTM F1554 Grade 105 and nuts shall conform to ASTM A563 (Heavy-Hex) and beveled washers shall conform to ASTM F436 Type 1. Anchor rods for connecting steel support bracket to barrier rail shall be Hilti galvanized SUPER-HAS Threaded Rods (supplied with nuts) and attached with Hilti HVA Adhesive System or an approved equal from the LA DOTD Qualified Product List No. 52. Belleville type washers shall meet the technical parameters as indicated on the plans. All other bolts shall be ASTM A325 Type 1 with nuts and washers conforming to section 807 of the standard specifications. An ethylene propylene diene monomer (EPDM) pad shall be supplied between the steel support bracket and barrier rail.

S-101.03 General Requirements

Steel support brackets shall be constructed in accordance with Sections 807 and 811 as modified herein. All dimensions required for satisfactory installation shall be determined and verified in the field by the contractor prior to the development of shop drawings, fabrication, or construction. Adjustments to the provided dimensions shall be determined by the contractor from the field measurements and changes brought to the attention of the engineer. Field measurements shall include, but not be limited to, roadway width, cross slope, vertical grade, and skew; barrier dimensions and orientation; girder size, spacing and orientation; and relative dimensions and angles between girders and barrier. Truss supports fabrication and installation shall be very closely coordinated with sign truss details and installation. Plans for the existing bridge structure may be available at LA DOTD general files, but are not to be substituted for actual field measurements.

Entire assembly, including MC 18x58 bracing members and 6x4x1/2 angles, shall be hot dipped galvanized upon completion of fabrication. All interior MC 18x58 bracing members required between the existing bridge girders shall be installed prior to installing the sign truss assembly. Contractor shall be prepared to place anchors into barrier rail as shown in the plans by drilling or coring through reinforcement encountered in the rail. The contractor shall install Hilti galvanized SUPER-HAS Threaded Rods (supplied with nuts) with Hilti HVA Adhesive System or an approved equal from the LA DOTD Qualified Product List No. 52 in direct accordance with the manufacturers recommendations. No loading of any kind shall be applied to these

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anchor rods during the manufacturers recommended setup period. Belleville washers shall be installed and nuts tightened in accordance to the manufacturers recommendations.

S-101.04 Measurement

Steel support bracket shall be measured per each sign truss location.

S-101.05 Payment

Payment for steel support brackets will be made at contract unit price per each location. Payment will be made under:

Item Number	Pay Item	Pay Unit
S-101-A	Steel Support Bracket – Location 5-6	Each
S-101-B	Steel Support Bracket – Location 5-1	Each
S-101-C	Steel Support Bracket – Location 4-9	Each
S-101-D	Steel Support Bracket – Location 4-8	Each

ITEM S-102-A, CONCRETE SUPPORT BLISTER - LOCATION 9-12, and ITEM S-102-B, CONCRETE SUPPORT BLISTER – LOCATION 8-21:

S-102.01 Item Description

This item consists of furnishing all Labor, Equipment, Tools, Materials, Measurements and Incidentals necessary for the construction and installation of concrete support blisters for truss locations 9-12 and 8-21 located on the West Mississippi River Bridge Approach Ramps in accordance with the Plans, Standard Specifications and the provisions of this article. Concrete support blisters are defined as an entire assembly necessary for affixing the overhead trusses at locations 9-12 and 8-21, including removal of the existing barrier rail (parapet), curb, and portions of the deck, reinforced concrete blister for supporting the sign truss, interior reinforced concrete bracing diaphragms, and all necessary hardware such as all-thread rods, anchor rods, plates, washers, and nuts, along with EPDM pads.

S-102.02 Materials

Materials shall comply with the following sections and subsections:

Structural Concrete	805
Reinforcement	806
Structural Metals	807
Painting and Protective Coatings	811
Portland Cement Concrete	901

S-102.03 General Requirements

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Concrete support blisters shall be constructed in accordance with Sections 805, 806, 807, 811, and 901 as modified herein. All dimensions required for satisfactory installation shall be determined and verified in the field by the contractor prior to the development of shop drawings, fabrication, or construction. Adjustments to the provided dimensions shall be determined by the contractor from the field measurements and changes brought to the attention of the engineer. Field measurements shall include, but not be limited to, roadway width, cross slope, vertical grade, and skew; barrier dimensions and orientation; girder size, spacing and orientation; and relative dimensions and angles between girders and barrier. Truss supports fabrication and installation shall be very closely coordinated with sign truss details and installation. Plans for the existing bridge structure may be available at LA DOTD general files, but are not to be substituted for actual field measurements.

In order to facilitate placement of sign trusses at locations 9-12 and 8-21, it is necessary to modify the existing bridge rail (parapet), curb, and portions of the deck at these locations. Portions of the existing barrier rail consisting of concrete and reinforcing bars shall be removed as shown on the plans. The contractor shall exercise caution in the saw cutting and concrete removal operation such that reinforcing bars to remain are preserved and not damaged. Reinforcing bars to remain shall be cleaned of debris and straightened, unless otherwise shown. The contractor shall provide measurements and coordinate shop details for fabrication of reinforcing bars shown in accordance with section 806. Existing reinforcing bars shown on the plans are based on an interpretation of the as-built bridge drawings and may vary from actual field conditions. The contractor shall exercise caution in the drilling operation for placement of the all-thread tie-rods so that prestressing strands in the existing concrete girders are not cut. Damage to the prestressed girders shall be repaired at the contractor's expense. All-thread tie-rods connecting girders to the support blister shall conform to ASTM A615 Grade 75 and anchor rods for affixing sign truss to concrete support blister shall conform to ASTM F1554 Grade 55. Nuts for all thread rods and anchor rods shall conform to ASTM A563 (Heavy-Hex) and beveled washers shall conform to ASTM F436 Type 1. All other steel hardware shall conform to ASTM A709 Grade 50. An ethylene propylene diene monomer (EPDM) pad shall be supplied between the tie-rod assembly and the concrete girders. Concrete shall be class "AA." Prior to placing concrete, existing surfaces shall be cleaned and coated with an epoxy adhesive from LA DOTD Qualified Products List 32. The contractor shall reconstruct the barrier, railing, post, and deck to match the existing.

S-102.04 Measurement

Concrete support blister will be measured per each sign truss location

S-102.05 Payment

Payment for Concrete support blister will be made at contract unit price per each location. Payment will be made under:

Item Number	Pay Item	Pay Unit
S-102-A	Concrete Support Blister – Location 9-12	Each
S-102-B	Concrete Support Blister – Location 8-21	Each

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ITEM S-103-A, STEEL BRACKET SUPPORTED TRUSS ASSEMBLY – LOCATION 5-6; ITEM S-103-B, STEEL BRACKET SUPPORTED TRUSS ASSEMBLY – LOCATION 5-1; ITEM S-103-C, STEEL BRACKET SUPPORTED TRUSS ASSEMBLY – LOCATION 4-9; and ITEM S-103-D, STEEL BRACKET SUPPORTED TRUSS ASSEMBLY – LOCATION 4-8:

S-103.01 Item Description

This item consists of furnishing all Labor, Equipment, Tools, Materials, Measurements, and Incidentals necessary for the construction and installation of the steel bracket supported truss assemblies at locations 4-8, 4-9, 5-1, and 5-6 located on the East and West Mississippi River Bridge Approaches in accordance with the Plans, Standard Specifications and the provisions of this article. Steel bracket supported truss assemblies are defined as an entire assembly necessary to support the required sign panels at locations 4-8, 4-9, 5-1, and 5-6, including fabricated trusses and support posts, sign support hardware, and all miscellaneous hardware such as U-bolts, high strength bolts, washers, and nuts as shown on the plans and “Panel Details – Overhead Mounted Sign” in the LA DOTD Standard Details.

S-103.02 Materials

Materials shall comply with the following Sections and Subsections of the Standard Specifications:

Structural Metals	807
Painting and Protective Coatings	811

Steel tubing shall be ASTM A500 Grade “B” or “C” $F_y = 42$ ksi min. Plates shall be ASTM A709 Grade 50. U-bolts for attaching the truss to the support posts shall be ASTM A449 and nuts shall conform to ASTM A563 (Heavy-Hex) and washers shall conform to ASTM F436. All other bolts shall be ASTM A325 Type 1 with nuts and washers conforming to section 807 of the standard specifications. Materials for attaching the sign panels to the truss shall conform to “Panel Details – Overhead Mounted Sign” in the LA DOTD Standard Details.

S-103.03 General Requirements

Steel bracket supported truss assembly shall be constructed in accordance with Sections 807 and 811 as modified herein. All dimensions required for satisfactory installation shall be determined and verified in the field by the contractor prior to the development of shop drawings, fabrication, or construction. Adjustments to the provided dimensions shall be determined by the contractor from the field measurements and changes brought to the attention of the engineer. Field measurements shall include, but not be limited to, roadway width, cross slope, vertical grade, and skew; barrier dimensions and orientation; girder size, spacing and orientation; and relative dimensions and angles between girders and barrier. Steel bracket supported trusses fabrication and installation shall be very closely coordinated with steel bracket details and installation. Plans for the existing bridge structure may be available at LA DOTD general files, but are not to be substituted for actual field measurements.

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Each component of the entire assembly shall be hot dipped galvanized upon completion of fabrication. The Contractor shall be made aware that these trusses vary significantly from the LA DOTD Standard Details. Bracket for attaching the sign panel to the truss may require modification.

S-103.04 Measurement

Steel bracket supported truss assemblies shall be measured per each sign truss location.

S-103.05 Payment

Payment for steel bracket supported truss assembly will be made at contract unit price per each location. Payment will be made under:

Item Number	Pay Item	Pay Unit
S-103-A	Steel Bracket Supported Truss Assembly – Location 5-6	Each
S-103-B	Steel Bracket Supported Truss Assembly – Location 5-1	Each
S-103-C	Steel Bracket Supported Truss Assembly – Location 4-9	Each
S-103-D	Steel Bracket Supported Truss Assembly – Location 4-8	Each

ITEM S-104-A, CONCRETE BLISTER SUPPORTED TRUSS ASSEMBLY – LOCATION 9-12, and ITEM S-104-B, CONCRETE BLISTER SUPPORTED TRUSS ASSEMBLY – LOCATION 8-21:

S-104.01 Item Description

This item consists of furnishing all Labor, Equipment, Tools, Materials, Measurements and Incidentals necessary for the construction and installation of concrete blister supported truss assemblies at locations 9-12 and 8-21 located on the West Mississippi River Bridge Approach Ramps in accordance with the Plans, Standard Specifications and the provisions of this article. Concrete blister supported truss assemblies are defined as an entire assembly necessary to support the required sign panels at locations 9-12 and 8-21, including fabricated trusses and support posts, sign support hardware, and all miscellaneous hardware such as U-bolts, high strength bolts, washers, and nuts as shown on the plans and “Panel Details – Overhead Mounted Sign” in the LA DOTD the Standard Details.

S-104.02 Materials

Materials shall comply with the following sections and subsections:

Structural Metals	807
Painting and Protective Coatings	811

Steel tubing shall be ASTM A500 Grade “B” or “C” $F_y = 42$ ksi min. Plates shall be ASTM A709 Grade 50. U-bolts for attaching the truss to the support posts shall be ASTM A449 and

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nuts shall conform to ASTM A563 (Heavy-Hex) and washers shall conform to ASTM F436. All other bolts shall be ASTM A325 Type 1 with nuts and washers conforming to section 807 of the standard specifications. Materials for attaching the sign panels to the truss shall conform to "Panel Details – Overhead Mounted Sign" in the LA DOTD Standard Details.

S-104.03 General Requirements

Concrete blister supported truss assemblies shall be constructed in accordance with Sections 807 and 811 as modified herein. All dimensions required for satisfactory installation shall be determined and verified in the field by the contractor prior to the development of shop drawings, fabrication, or construction. Adjustments to the provided dimensions shall be determined by the contractor from the field measurements and changes brought to the attention of the engineer. Field measurements shall include, but not be limited to, roadway width, cross slope, vertical grade, and skew; barrier dimensions and orientation; girder size, spacing and orientation; and relative dimensions and angles between girders and barrier. Truss supports fabrication and installation shall be very closely coordinated with sign truss details and installation. Plans for the existing bridge structure may be available at LA DOTD general files, but are not to be substituted for actual field measurements.

Each component of the entire assembly shall be hot dipped galvanized upon completion of fabrication. The Contractor shall be made aware that these trusses vary significantly from the LA DOTD Standard Details. Bracket for attaching the sign panel to the truss may require modification.

S-104.04 Measurement

Concrete blister supported truss assemblies shall be measured per each sign truss location.

S-104.05 Payment

Payment for concrete blister supported truss assembly will be made at contract unit price per each location. Payment will be made under:

Item Number	Pay Item	Pay Unit
S-104-A	Concrete Blister Supported Truss Assembly – Location 9-12	Each
S-104-B	Concrete Blister Supported Truss Assembly – Location 8-21	Each

ITEM S-105-A, STEEL ADAPTER BRACKET – LOCATION 4-1; ITEM S-105-B, STEEL ADAPTER BRACKET – LOCATION 8-21; ITEM S-105-C, STEEL ADAPTER BRACKET – LOCATION 9-5; and ITEM S-105-D, STEEL ADAPTER BRACKET – LOCATION 9-6:

S-105.01 Item Description

This item consists of furnishing all Labor, Equipment, Tools, Materials, Measurements, and Incidentals necessary for the construction and installation of steel adapter brackets for truss locations 4-1, 8-24, 9-5 and 9-6 located on the West Mississippi River Bridge Approaches (at-

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grade) in accordance with the Plans, Standard Specifications and the provisions of this article. Steel adapter brackets are defined as an entire assembly necessary for affixing the overhead trusses at locations 4-1, 8-24, 9-5 and 9-6, including fabricated assembly for connecting sign truss, and all necessary hardware such as anchor rods, washers, and nuts, along with EPDM pads.

S-105.02 Materials

Materials shall comply with the following Sections and Subsections of the Standard Specifications:

Structural Metals 807
Painting and Protective Coatings 811

Plates shall be ASTM A709 Grade 50. Anchor rods for affixing sign truss to steel adapter bracket shall conform to ASTM F1554 Grade 105 and nuts shall conform to ASTM A563 (Heavy-Hex) and washers shall conform to ASTM F436 Type 1. Anchor rods for connecting steel adapter bracket to foundation shall be the existing anchor rods, except the contractor shall supply new nuts that shall conform to ASTM A563 (Heavy-Hex) and washers that shall conform to ASTM F436 Type 1.

S-105.03 General Requirements

Steel adapter bracket shall be constructed in accordance with Sections 807 and 811 as modified herein. All dimensions required for satisfactory installation shall be determined and verified in the field by the contractor prior to the development of shop drawings, fabrication, or construction. Adjustments to the provided dimensions shall be determined by the contractor from the field measurements and changes brought to the attention of the engineer. Field measurements shall include, but not be limited to, roadway width, cross slope, vertical grade, and skew; and existing foundation dimensions and orientation. Truss supports fabrication and installation shall be very closely coordinated with sign truss details and installation. Plans for the truss foundations may be available at LA DOTD general files, but are not to be substituted for actual field measurements.

Entire assembly shall be hot dipped galvanized upon completion of fabrication. An ethylene propylene diene monomer (EPDM) pad shall be supplied between the existing concrete foundation and steel adapter bracket

S-105.04 Measurement

Steel adapter bracket shall be measured per each sign truss location.

S-105.05 Payment

Payment for steel adapter brackets will be made at contract unit price per each location. Payment will be made under:

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Item Number	Pay Item	Pay Unit
S-105-A	Steel Adapter Bracket – Location 4-1	Each
S-105-B	Steel Adapter Bracket – Location 8-21	Each
S-105-C	Steel Adapter Bracket – Location 9-5	Each
S-105-D	Steel Adapter Bracket – Location 9-6	Each

ITEM S-106, INSTALLATION OF BEARING PLATES: This item shall consist of fabrication and installation of new bearing plates for the new sliding joint modifications of top and bottom false chord joints at Panel Points 21 and 35. The bearing plates shall be Type DB-D material with white solid lubricants as manufactured by Glacier Garlock Bearings, Inc., phone: (800) 222-0147, or approved equal. The bearing plates shall meet or exceed the following operational limits or characteristics:

Maximum Static Capacity:	29,000 PSI
Maximum Dynamic Capacity:	14,500 PSI
Coefficient of Friction:	0.05 – 0.18

Shop drawings of the bearings shall be submitted to the Project Engineer for approval prior to fabrication. The bearing plates shall be handled and shipped as per manufacturer's recommendations and installed as detailed in the plans. Receiving surface shall be ASTM A176 Series 400 stainless steel plate with 16 micro-inch finish surface as shown in the plans (stainless steel plate to be furnished, installed and paid for under Item 807-08, Structural Metalwork.)

The required fabrication and installation of new bearing plates for the modification of top and bottom false chord joints at Panel Points 21 and 35 will be paid for at the contract unit price which will be full compensation for fabricating and installing four bearing plates at each of four bottom false chord joints and four bearing plates at each of four top false chord joints for a total of thirty-two bearing plates, and shall include all equipment, material, labor, and incidentals necessary for this item of work.

Payment for installation of bearing plates and DB-D material with white solid lubricants will be made under:

Item S-106, Installation of Bearing Plates, per lump sum.

ITEM S-107, REQUIRED JACKING OPERATION FOR MODIFICATION OF FALSE CHORDS AT P.P'S 21 AND 35: This item shall consist of furnishing, installing, and monitoring the jacking operation in accordance with the plans or as directed by the Engineer during modifications and adjustment of the false chords at Panel Points 21 and 35. The method and operation procedure of the jacking operation shall be submitted to the Project Engineer for review and approval prior to installation of the jacks. The Contractor shall furnish and place all bracing, shoring, blocking, temporary structural steel, shims, wedges, hydraulic jacks, and any other materials and equipment necessary for the safe and proper execution of the work. At any time during the modification and jacking operation, the Engineer may require the Contractor to provide additional measures in order to furnish an added degree of safety at no additional cost to the Department. Neither added precautions nor the failure of the Engineer to order additional

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protection will in anyway relieve the Contractor from sole responsibility for the safety of lives, equipment, and structure.

Calibration certification for each jack used shall be available upon request by the Project Engineer. Jacking records shall be filled out during jacking operation, with the following data recorded as a minimum:

- 1) Date of jacking operation and ambient temperature.
- 2) Actual gauge pressure at beginning and end of jacking operation.
- 3) Serial or identification of jacking equipment.
- 4) Jacking records shall be turned over to the Project Engineer for verification and safekeeping.

Contractor shall remove the jacks upon completion of the work.

The required jacking operation for modification and adjustment of false chords at Panel Points 21 and 35 as described in the plans shall be paid for at the contract unit price which will be full compensation for furnishing, operating the jacking operations and includes all equipment, tools, labor, and incidentals necessary for this item of work.

Payment will be made under:

Item S-107, Required Jacking Operation for Mod. of False Chords at P.P'S 21
AND 35, per lump sum.

ITEM S-108, REQUIRED JACKING OPERATION FOR MODIFICATION OF LONGITUDINAL STRUTS: This item shall consist of furnishing, installing, and monitoring the jacking operation in accordance with the plans or as directed by the Engineer during modification and adjustment of the longitudinal strut between Panel Points 20 and 21. The method and operation procedure of the jacking operation shall be submitted to the Project Engineer for review and approval prior to installation of the jacks. The Contractor shall furnish and place all bracing, shoring, blocking, temporary structural steel, shims, wedges, hydraulic jacks, and any other materials and equipment necessary for the safe and proper execution of the work. At any time during the modification and jacking operation, the Engineer may require the Contractor to provide additional measures in order to furnish an added degree of safety at no additional cost to the Department. Neither added precautions nor the failure of the Engineer to order additional protection will in anyway relieve the Contractor from sole responsibility for the safety of lives, equipment, and structure.

Calibration certification for each jack used shall be available upon request by the Project Engineer. Jacking records shall be filled out during jacking operation, with the following data recorded as a minimum:

- 1) Date of jacking operation and ambient temperature.
- 2) Actual gauge pressure at beginning and end of jacking operation.
- 3) Serial or identification of jacking equipment.

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- 4) Jacking records shall be turned over to the Project Engineer for verification and safekeeping.

Contractor shall remove the jacks upon completion of the work.

Protection and modifications to conduit systems: The Contractor is to provide means and methods for protection and/or modifications to conduit systems and supports necessary to facilitate uninterrupted service during jacking operations. The Contractor is to submit shop drawings for review and approval by the Project Engineer and is to coordinate reviews with all utility companies. The Contractor is to notify utility companies prior to conducting jacking operations.

Modifications to Catwalk: The Contractor is to provide means and methods for necessary modifications of the catwalk above the longitudinal strut. The Contractor is to submit shop drawings of catwalk modifications to the Project Engineer for review and approval. The Contractor may temporarily remove the catwalk above the longitudinal strut, but must always maintain a means of access across this bay for department inspectors and maintenance personnel.

Payment: The required jacking operation for modification and adjustment of the longitudinal strut between Panel Points 20 and 21 described in the plans, including protection and modifications to service conduits and modifications to the catwalk, shall be paid for at the contract unit price which will be in full compensation for furnishing, operating the jacking operations and includes all equipment, tools, labor, and incidentals necessary for this item of work.

Payment will be made under:

Item S-108, Required Jacking Operation for Mod. of Longitudinal Struts, per lump sum.

ITEM S-109 FIELD VERIFICATION OF DESIGN DIMENSIONS (ALTERNATE A1):

ITEM S-113 FIELD VERIFICATION OF DESIGN DIMENSIONS (ALTERNATE A2):

This work consists of the contractor field verifying all dimensions, at each drain location, that are needed for fabrication and construction of the new drain systems prior to submitting shop drawings and prior to fabrication. This item shall include all equipment, labor, supervision and materials required to complete the work to verify field dimensions. Any measurements found in the field that differ from those shown in the plans shall be reported to the Project Engineer and any adjustments to the pipe and bracing configuration must be approved by the Project Engineer prior to fabrication. The Contractor is responsible for obtaining accurate field measurements to correctly manufacture all piping, support bracing and hardware to allow for proper installation of manufactured components. As a result of this field dimensions verification process the Contractor shall be responsible for the replacement of any items that will not properly install in the field.

Except as modified herein, all work shall be in accordance with plan details and the requirements of applicable sections of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 Edition and latest revisions.

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Payment will be made for the field verification of design dimensions on a lump sum basis; the pay item will include all required labor, equipment and materials.

Payment will be made under:

Item S-109, Field Verification of Design Dimensions (Alternate A1), per lump sum.

Item S-113, Field Verification of Design Dimensions (Alternate A2), per lump sum

ITEM S-110, REMOVE EXISTING PIPING & BRACING AND INSTALL NEW 8" STEEL PIPING, BRACING, HARDWARE @ P. PTS. L0-L13, L15-L41 & L43-L56 (ALTERNATE A1): This work consists of furnishing all necessary equipment, materials, labor and supervision to perform all necessary work including all fabrication and necessary modification(s) for a complete, operational and safe deck drainage system in accordance with the plan details, field dimensions and these specifications. The Contractor is required to detach the existing deck drain piping and support bracing as detailed in the plans and install new 8" diameter steel piping, new support bracing and all associated hardware at panel points L0 through L13, L15 through L41 & L43 through L56. The Contractor shall remove the existing piping and support bracing and any other items that are not designated or permitted to remain by means that do not damage any members that are to remain. This item shall also include salvaging of designated materials or disposal of unsalvageable parts, components and materials beyond the project right-of-way. The Contractor is responsible for the proper manufacturing of piping, support bracing and hardware to the required dimensions as were determined by the field verification of design dimensions process. Any adjustments to the pipe and bracing configuration shall be brought to the attention of the Project Engineer prior to submitting shop drawings and must be approved prior to fabrication.

Except as modified herein, all work shall be in accordance with plan details and adjusted to the required dimensions as were determined by the field verification of design dimensions process and the requirements of Section 202 and 807 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 Edition and latest revisions and all applicable sub-sections.

Materials: Except as modified herein or in the plan details, the materials shall conform to the requirements of Subsection 1013 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 edition and latest revisions. When the type of structural steel to be used is not specified, steel shall comply with AASHTO M-270, Grade 36.

General Construction Requirements: All components requiring assembly shall be assembled off site to the maximum extent to necessitate the least amount of assembly and installation time on site.

Measurement: This work will be measured per each complete, operational, safe and accepted deck drainage system installed at each upstream or downstream (north or south exterior gutter line) panel point.

Payment: Payment shall be made per each complete, operational, safe and accepted deck drainage system installed, which will include furnishing, fabricating, erecting, galvanizing, painting of all necessary materials; furnishing all required labor, equipment tools, staging,

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hardware, and performance of all work necessary to remove the existing and install the completed and accepted item. Hauling salvaged materials to specified storage or disposal sites will not be measured for payment.

Payment will be made under: Item S-110, Remove Existing Piping & Bracing and Install New 8" Steel Piping, Bracing, Hardware @ P. Pts. L0-L13, L15-L41 & L43-L56 (Alternate A1), per each.

ITEM S-111, REMOVE EXISTING PIPING & BRACING AND INSTALL NEW 8" STEEL PIPING, BRACING, HARDWARE @ PANEL PTS. L14 & L42 (ALTERNATE A1): This work consists of furnishing all necessary equipment, materials, labor and supervision to perform all necessary work including all fabrication and necessary modification(s) for a complete, operational and safe deck drainage system in accordance with the plan details, field dimensions and these specifications. The Contractor is required to detach the existing deck drain piping and support bracing as detailed in the plans and install new 8" diameter steel piping, new support bracing and all associated hardware at panel points L14 & L42. The Contractor shall remove the existing piping and support bracing and any other items that are not designated or permitted to remain by means that do not damage any members that are to remain. This item shall also include salvaging of designated materials or disposal of unsalvageable parts, components and materials beyond the project right-of-way. The Contractor is responsible for the proper manufacturing of piping, support bracing and hardware to the required dimensions as were determined by the field verification of design dimensions process. Any adjustments to the pipe and bracing configuration shall be brought to the attention of the Project Engineer prior to submitting shop drawings and must be approved prior to fabrication.

Except as modified herein, all work shall be in accordance with plan details and adjusted to the required dimensions as were determined by the field verification of design dimensions process and the requirements of Section 202 and 807 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 Edition and latest revisions and all applicable sub-sections.

Materials: Except as modified herein or in the plan details, the materials shall conform to the requirements of Subsection 1013 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 edition and latest revisions. When the type of structural steel to be used is not specified, steel shall comply with AASHTO M-270, Grade 36.

General Construction Requirements: All components requiring assembly shall be assembled off site to the maximum extent to necessitate the least amount of assembly and installation time on site.

Measurement: This work will be measured per each complete, operational, safe and accepted deck drainage system installed, at each upstream or downstream (north or south exterior gutter line) panel point.

Payment: Payment shall be made per each complete, operational, safe and accepted deck drainage system installed, which will include furnishing, fabricating, erecting, galvanizing,

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painting of all necessary materials; furnishing all required labor, equipment tools, staging, hardware, and performance of all work necessary to remove the existing and install the completed and accepted item. Hauling salvaged materials to specified storage or disposal sites will not be measured for payment.

Payment will be made under: Item S-111, Remove Existing Piping & Bracing and Install New 8" Steel Piping, Bracing, Hardware @ Mid Panel Pts. Between L14 & L42 (Alternate A1), per each.

ITEM S-112, REMOVE EXISTING PIPING & BRACING AND INSTALL NEW 8" STEEL PIPING, BRACING, HARDWARE @ MID PANEL PTS. BETWEEN L24 & L32 (ALTERNATE A1): This work consists of furnishing all necessary equipment, materials, labor and supervision to perform all necessary work including all fabrication and necessary modification(s) for a complete, operational and safe deck drainage system in accordance with the plan details, field dimensions and these specifications. The Contractor is required to detach the existing deck drain piping and support bracing as detailed in the plans and install new 8" diameter steel piping, new support bracing and all associated hardware at mid panel points between L24 & L32. The Contractor shall remove the existing piping and support bracing and any other items that are not designated or permitted to remain by means that do not damage any members that are to remain. This item shall also include salvaging of designated materials or disposal of unsalvageable parts, components and materials beyond the project right-of-way. The Contractor is responsible for the proper manufacturing of piping, support bracing and hardware to the required dimensions as were determined by the field verification of design dimensions process. Any adjustments to the pipe and bracing configuration shall be brought to the attention of the Project Engineer prior to submitting shop drawings and must be approved prior to fabrication.

Except as modified herein, all work shall be in accordance with plan details and adjusted to the required dimensions as were determined by the field verification of design dimensions process and the requirements of Section 202 and 807 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 Edition and latest revisions and all applicable sub-sections.

Materials: Except as modified herein or in the plan details, the materials shall conform to the requirements of Subsection 1013 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 edition and latest revisions. When the type of structural steel to be used is not specified, steel shall comply with AASHTO M-270, Grade 36.

General Construction Requirements: All components requiring assembly shall be assembled off site to the maximum extent to necessitate the least amount of assembly and installation time on site.

Measurement: This work will be measured per each complete, operational, safe and accepted deck drainage system installed, at each upstream or downstream (north or south exterior gutter line) panel point.

Payment: Payment shall be made per each complete, operational, safe and accepted deck drainage system installed, which will include furnishing, fabricating, erecting, galvanizing,

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painting of all necessary materials; furnishing all required labor, equipment tools, staging, hardware, and performance of all work necessary to remove the existing and install the completed and accepted item. Hauling salvaged materials to specified storage or disposal sites will not be measured for payment.

Payment will be made under: Item S-112, Remove Existing Piping & Bracing and Install New 8" Steel Piping, Bracing, Hardware @ Mid Panel Pts. Between L24 & L32 (Alternate A1), per each.

ITEM S-114, REMOVE EXISTING PIPING & BRACING, INSTALL NEW 8" FIBERGLASS PIPING, BRACING, HARDWARE @ P. PTS. L0-L13, L15-L41, & L43-L56 (ALTERNATE A2): This work consists of furnishing all necessary equipment, materials, labor and supervision to perform all necessary work including all fabrication and necessary modification(s) for a complete, operational and safe deck drainage system in accordance with the plan details, field dimensions and these specifications. The Contractor is required to detach the existing deck drain piping and support bracing as detailed in the plans and install new 8" diameter fiberglass piping, new support bracing and all associated hardware at panel points L0 through L13, L15 through L41 & L43 through L56. The contractor shall remove the existing piping and support bracing and any other items that are not designated or permitted to remain by means that do not damage any members that are to remain. This item shall also include salvaging of designated materials or disposal of unsalvageable parts, components and materials beyond the project right-of-way. The Contractor is responsible for the proper manufacturing of piping, support bracing and hardware to the required dimensions as were determined by the field verification of design dimensions process. Any adjustments to the pipe and bracing configuration shall be brought to the attention of the Project Engineer prior to submitting shop drawings and must be approved prior to fabrication.

Except as modified herein, all work shall be in accordance with plan details and adjusted to the required dimensions as were determined by the field verification of design dimensions process and the requirements of Section 202 and 807 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 Edition and latest revisions and all applicable sub-sections.

Materials: Except as modified herein or in the plan details, the structural steel materials shall conform to the requirements of Subsection 1013 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 edition and latest revisions. When the type of structural steel to be used is not specified, steel shall comply with AASHTO M-270, Grade 36.

Fiberglass pipes and fittings shall be:

A. Reinforced thermosetting resin pipe system meeting the requirements of ASTM D 2996, BDP-12EA12122, with at least 30,000 psi short time rupture strength hoops tensile stress, and the accelerated ultraviolet weathering performance requirements of ASTM G154(D4329-99)

B. All elbows shall be manufactured by using smooth radius steel molds. Elbow shall not be mitered. Filament wound pipe may be used for tees, laterals and crosses.

C. All fiberglass pipes and fittings shall be pigmented resin throughout the wall. Color to match the paint on the bridge structure. Paint, gel-coat or exterior coating will not be accepted.

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D. A minimum liner of 40-mil resin-rich 1-1/2 ounce glass mat shall be standard for all elbows.

E. Adhesive for bond joint shall be a vinyl ester resin based product with silica filler, polyester pigment, and methyl ethyl ketone peroxide catalyst. The adhesive formulation shall be certified to be proven suitable for the intended application. The resin shall be certified to have no additives that leach out, catalysts that remain active, or other ingredients that could lead to deterioration.

F. The minimum total wall thickness shall be no less than .125 for the 8 in. nominal size.

G. Adhesive bond joints are acceptable for all joints. Straight sockets shall be used for ease of installation with adhesive joint system.

H. Supports shall be as detailed in the plan drawings. Point contact on narrow supporting areas shall not be allowed. Standard sling, clamp, and clevis hangers for use with steel pipe shall not be used. Supports shall have a minimum 120 degrees of contact with the pipe. Split fiberglass pipe sleeves 8 inches long shall be installed, bonded in place with adhesive, as detailed in the plan drawings.

I. All fiberglass pipe, fittings, and joints shall be handled and installed according to the guidelines and procedures recommended in the printed literature of the manufacture. Pipe and fittings shall be from the same manufacturer.

J. Connections to scuppers shall not be rigid. The transition shall be made by means of a fiberglass collector assembly. The scupper outlet pipe, with the collector cover attached around it, shall be suspended into a 12 inch by 8 inch (unless otherwise shown) tapered collector.

K. All products to be manufactured in the U.S.A. and are available from Westfall Company, Inc. 636-343-5855, www.westfallcompany.com or approved equal.

L. A fiberglass pipe body should never bear directly on a U-Bolt. The use of a 3/8" metallic protective sleeve between the U-Bolt, steel channel and pipe is required. The U-Bolt clamping force should be taken by the steel protective sleeve and not the fiberglass pipe.

General Construction Requirements: All components requiring assembly shall be assembled off site to the maximum extent to necessitate the least amount of assembly and installation time on site.

Measurement: This work will be measured per each complete, operational, safe and accepted deck drainage system installed, at each upstream or downstream (north or south exterior gutter line) panel point.

Payment: Payment shall be made per each complete, operational, safe and accepted deck drainage system installed, which will include furnishing, fabricating, erecting, galvanizing, painting of all necessary materials; furnishing all required labor, equipment tools, staging, hardware, and performance of all work necessary to remove the existing and install the completed and accepted item. Hauling salvaged materials to specified storage or disposal sites will not be measured for payment.

Payment will be made under: Item S-114, Remove Existing Piping & Bracing, Install New 8" Fiberglass Piping, Bracing Hardware at Mid Panel Pts. L0-L13, L15-L41, & L43-L56 (Alternate A2), per each.

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ITEM S-115, REMOVE EXISTING PIPING & BRACING, INSTALL NEW 8" FIBERGLASS PIPING, BRACING, HARDWARE AT MID PANEL PTS. BETWEEN L14 & L42 (ALTERNATE A2): This work consists of furnishing all necessary equipment, materials, labor and supervision to perform all necessary work including all fabrication and necessary modification(s) for a complete, operational and safe deck drainage system in accordance with the plan details, field dimensions and these specifications. The Contractor is required to detach the existing deck drain piping and support bracing as detailed in the plans and install new 8" diameter fiberglass piping, new support bracing and all associated hardware at panel points L14 & L42. The contractor shall remove the existing piping and support bracing and any other items that are not designated or permitted to remain by means that do not damage any members that are to remain. This item shall also include salvaging of designated materials or disposal of unsalvageable parts, components and materials beyond the project right-of-way. The Contractor is responsible for the proper manufacturing of piping, support bracing and hardware to the required dimensions as were determined by the field verification of design dimensions process. Any adjustments to the pipe and bracing configuration shall be brought to the attention of the Project Engineer prior to submitting shop drawings and must be approved prior to fabrication.

Except as modified herein, all work shall be in accordance with plan details and adjusted to the required dimensions as were determined by the field verification of design dimensions process and the requirements of Section 202 and 807 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 Edition and latest revisions and all applicable subsections.

Materials: Except as modified herein or in the plan details, the structural steel materials shall conform to the requirements of Subsection 1013 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 edition and latest revisions. When the type of structural steel to be used is not specified, steel shall comply with AASHTO M-270, Grade 36.

Fiberglass pipes and fittings shall be:

A. Reinforced thermosetting resin pipe system meeting the requirements of ASTM D 2996, BDP-12EA12122, with at least 30,000 psi short time rupture strength hoops tensile stress, and the accelerated ultraviolet weathering performance requirements of ASTM G154(D4329-99)

B. All elbows shall be manufactured by using smooth radius steel molds. Elbow shall not be mitered. Filament wound pipe may be used for tees, laterals and crosses.

C. All fiberglass pipes and fittings shall be pigmented resin throughout the wall. Color to match the paint on the bridge structure. Paint, gel-coat or exterior coating will not be accepted.

D. A minimum liner of 40-mil resin-rich 1-1/2 ounce glass mat shall be standard for all elbows.

E. Adhesive for bond joint shall be a vinyl ester resin based product with silica filler, polyester pigment, and methyl ethyl ketone peroxide catalyst. The adhesive formulation shall be certified to be proven suitable for the intended application. The resin shall be certified to have no additives that leach out, catalysts that remain active, or other ingredients that could lead to deterioration.

F. The minimum total wall thickness shall be no less than .125 for the 8 in. nominal size.

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G. Adhesive bond joints are acceptable for all joints. Straight sockets shall be used for ease of installation with adhesive joint system.

H. Supports shall be as detailed in the plan drawings. Point contact on narrow supporting areas shall not be allowed. Standard sling, clamp, and clevis hangers for use with steel pipe shall not be used. Supports shall have a minimum 120 degrees of contact with the pipe. Split fiberglass pipe sleeves 8 inches long shall be installed, bonded in place with adhesive, as detailed in the plan drawings.

I. All fiberglass pipe, fittings, and joints shall be handled and installed according to the guidelines and procedures recommended in the printed literature of the manufacture. Pipe and fittings shall be from the same manufacturer.

J. Connections to scuppers shall not be rigid. The transition shall be made by means of a fiberglass collector assembly. The scupper outlet pipe, with the collector cover attached around it, shall be suspended into a 12 inch by 8 inch (unless otherwise shown) tapered collector.

K. All products to be manufactured in the U.S.A. and are available from Westfall Company, Inc. 636-343-5855, www.westfallcompany.com or approved equal.

L. A fiberglass pipe body should never bear directly on a U-Bolt. The use of a 3/8" metallic protective sleeve between the U-Bolt, steel channel and pipe is required. The U-Bolt clamping force should be taken by the steel protective sleeve and not the fiberglass pipe.

General Construction Requirements: All components requiring assembly shall be assembled off site to the maximum extent to necessitate the least amount of assembly and installation time on site.

Measurement: This work will be measured per each complete, operational, safe and accepted deck drainage system installed, at each upstream or downstream (north or south exterior gutter line) panel point.

Payment: Payment shall be made per each complete, operational, safe and accepted deck drainage system installed, which will include furnishing, fabricating, erecting, galvanizing, painting of all necessary materials; furnishing all required labor, equipment tools, staging, hardware, and performance of all work necessary to remove the existing and install the completed and accepted item. Hauling salvaged materials to specified storage or disposal sites will not be measured for payment.

Payment will be made under: Item S-115, Remove Existing Piping & Bracing, Install New 8" Fiberglass Piping, Bracing, Hardware @ Mid Panel Pts. Between L14 & L42 (Alternate A2), per each.

ITEM S-116, REMOVE EXISTING PIPING & BRACING, INSTALL NEW 8" FIBERGLASS PIPING, BRACING, HARDWARE @ MID PANEL PTS. BETWEEN L24 & L32 (ALTERNATE 2): This work consists of furnishing all necessary equipment, materials, labor and supervision to perform all necessary work including all fabrication and necessary modification(s) for a complete, operational and safe deck drainage system in accordance with the plan details, field dimensions and these specifications. The Contractor is required to detach the existing deck drain piping and support bracing as detailed in the plans and install new 8"

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diameter fiberglass piping, new support bracing and all associated hardware at mid panel points between L24 & L32. The contractor shall remove the existing piping and support bracing and any other items that are not designated or permitted to remain by means that do not damage any members that are to remain. This item shall also include salvaging of designated materials or disposal of unsalvageable parts, components and materials beyond the project right-of-way. The Contractor is responsible for the proper manufacturing of piping, support bracing and hardware to the required dimensions as were determined by the field verification of design dimensions process. Any adjustments to the pipe and bracing configuration shall be brought to the attention of the Project Engineer prior to submitting shop drawings and must be approved prior to fabrication.

Except as modified herein, all work shall be in accordance with plan details and adjusted to the required dimensions as were determined by the field verification of design dimensions process and the requirements of Section 202 and 807 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 Edition and latest revisions and all applicable subsections.

Materials: Except as modified herein or in the plan details, the structural steel materials shall conform to the requirements of Subsection 1013 of the Louisiana Standard Specifications for Roads and Bridges (LSSRB), 2006 edition and latest revisions. When the type of structural steel to be used is not specified, steel shall comply with AASHTO M-270, Grade 36.

Fiberglass pipes and fittings shall be:

A. Reinforced thermosetting resin pipe system meeting the requirements of ASTM D 2996, BDP-12EA12122, with at least 30,000 psi short time rupture strength hoops tensile stress, and the accelerated ultraviolet weathering performance requirements of ASTM G154(D4329-99)

B. All elbows shall be manufactured by using smooth radius steel molds. Elbow shall not be mitered. Filament wound pipe may be used for tees, laterals and crosses.

C. All fiberglass pipes and fittings shall be pigmented resin throughout the wall. Color to match the paint on the bridge structure. Paint, gel-coat or exterior coating will not be accepted.

D. A minimum liner of 40-mil resin-rich 1-1/2 ounce glass mat shall be standard for all elbows.

E. Adhesive for bond joint shall be a vinyl ester resin based product with silica filler, polyester pigment, and methyl ethyl ketone peroxide catalyst. The adhesive formulation shall be certified to be proven suitable for the intended application. The resin shall be certified to have no additives that leach out, catalysts that remain active, or other ingredients that could lead to deterioration.

F. The minimum total wall thickness shall be no less than .125 for the 8 in. nominal size.

G. Adhesive bond joints are acceptable for all joints. Straight sockets shall be used for ease of installation with adhesive joint system.

H. Supports shall be as detailed in the plan drawings. Point contact on narrow supporting areas shall not be allowed. Standard sling, clamp, and clevis hangers for use with steel pipe shall not be used. Supports shall have a minimum 120 degrees of contact with the pipe. Split fiberglass pipe sleeves 8 inches long shall be installed, bonded in place with adhesive, as detailed in the plan drawings.

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I. All fiberglass pipe, fittings, and joints shall be handled and installed according to the guidelines and procedures recommended in the printed literature of the manufacture. Pipe and fittings shall be from the same manufacturer.

J. Connections to scuppers shall not be rigid. The transition shall be made by means of a fiberglass collector assembly. The scupper outlet pipe, with the collector cover attached around it, shall be suspended into a 12 inch by 8 inch (unless otherwise shown) tapered collector.

K. All products to be manufactured in the U.S.A. and are available from Westfall Company, Inc. 636-343-5855, www.westfallcompany.com or approved equal.

L. A fiberglass pipe body should never bear directly on a U-Bolt. The use of a 3/8" metallic protective sleeve between the U-Bolt, steel channel and pipe is required. The U-Bolt clamping force should be taken by the steel protective sleeve and not the fiberglass pipe.

General Construction Requirements: All components requiring assembly shall be assembled off site to the maximum extent to necessitate the least amount of assembly and installation time on site.

Measurement: This work will be measured per each complete, operational, safe and accepted deck drainage system installed, at each upstream or downstream (north or south exterior gutter line) panel point.

Payment: Payment shall be made per each complete, operational, safe and accepted deck drainage system installed, which will include furnishing, fabricating, erecting, galvanizing, painting of all necessary materials; furnishing all required labor, equipment tools, staging, hardware, and performance of all work necessary to remove the existing and install the completed and accepted item. Hauling salvaged materials to specified storage or disposal sites will not be measured for payment.

Payment will be made under: Item S-116, Remove Existing Piping & Bracing, Install New 8" Fiberglass Piping, Bracing, Hardware @ Mid Panel Pts. Between L24 & L32 (Alternate A2), per each.

ITEM S-117, REPAIRS TO EXISTING TYPE II FLOORBEAM RETROFITS: This item shall consist of required dye penetration testing and repair of existing Type II floorbeam retrofits at the floorbeam web to top flange connection for the panel points listed on the plans. The Contractor is to remove all bolts from both legs of the angles at the face of the floorbeam web to top flange connection and conduct an NDT test (nondestructive test) by means of dye penetrant of the existing crack to determine if it has propagated. If it has propagated, the Contractor will submit a sketch showing the length of crack to the Project Engineer for review and consideration. The Project Engineer will provide a recommended location to the Contractor to drill a one inch (1") diameter hole. The Contractor is to clean and paint the corresponding area at the location of the crack and reinstall the angles with all new A325 bolts, DTI washers, and nuts. If the crack has not propagated the Contractor is to reinstall the existing angle with all new A325 bolts, DTI washers, and nuts.

Prior to placement, the Contractor will field verify bolt length. Extra washers will not be allowed, and correct bolt length as specified in the Louisiana Standard Specifications for Roads and Bridges, Section 807.21 will be used.

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Dye Penetrant Test: Perform a standard liquid penetrant non-destructive test to current ANSI and ASTM standards (ASTM E165, ASTM E1417, and ANSI/ASNT CP-189-2006.) Notify the Project Engineer at least three days prior to conducting NDT testing on cracks, so that a representative for the DOTD can be present during testing.

DTI Washers: DTI washers shall meet the requirements of ASTM F959 and be installed as specified in the Louisiana Standard Specifications for Roads and Bridges, Section 807.21 (j), Direct Tension Indicators, and Section 807.21 in general.

Measurement for the repairs to existing Type II retrofits shall be per each.

The required dye penetrant testing, repairs to Existing Type II Floorbeam Retrofits, and replacement of bolts as described in the plans shall be paid for at the contract unit price which will be full compensation for repairs to Existing Type II Floorbeam Retrofits, and includes all equipment, tools, labor, and incidentals necessary for this item of work.

Payment will be made under:

Item S-117, Repairs to Existing Type II Floorbeam Retrofits, per each.

ITEM S-118, PROPOSED TYPE II FLOORBEAM RETROFITS: This item shall consist of all equipment, material, labor, and incidentals required for dye penetration testing and new (proposed) Type II floorbeam retrofits of a new floorbeam web to top flange connection for the panel points listed on the plans. The Contractor is to remove the paint in the general area where cracks have occurred on floorbeams and conduct an NDT test (nondestructive test) by means of dye penetrant to determine if a crack is present. If a crack is present, the Contractor will submit a sketch showing the length and location of crack to the Project Engineer for review and consideration. The Project Engineer will provide a recommended location to the Contractor to drill a one inch (1") diameter hole. The Contractor is to clean and paint the corresponding area at the location of the crack. The Contractor is to fabricate and install new Type II retrofit angles and fill plates with all new A325 bolts, DTI washers, and nuts.

Prior to placement, the Contractor will field verify bolt length. Extra washers will not be allowed, and correct bolt length as specified in the Louisiana Standard Specifications for Roads and Bridges, Section 807.21 will be used.

Dye Penetrant Test: Perform a standard liquid penetrant non-destructive test to current ANSI and ASTM standards (ASTM E165, ASTM E1417, and ANSI/ASNT CP-189-2006.) Notify the Project Engineer at least three days prior to conducting NDT testing on cracks, so that a representative for the DOTD can be present during testing.

DTI Washers: DTI washers shall meet the requirements of ASTM F959 and be installed as specified in the Louisiana Standard Specifications for Roads and Bridges, Section 807.21 (j), Direct Tension Indicators, and Section 807.21 in general.

Measurement for the proposed Type II retrofits shall be per each.

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The required dye penetrant testing and new (proposed) Type II Floorbeam Retrofits as described in the plans shall be paid for at the contract unit price which will be full compensation for the proposed Type II Floorbeam Retrofits, and includes all equipment, tools, labor, and incidentals necessary for this item of work.

Payment will be made under:

Item S-118, Proposed Type II Floorbeam Retrofits, per each.

ITEM S-119, REPAIRS TO EXISTING TYPE III AND IV FLOORBEAM RETROFITS:

This item shall consist of the required replacement all bolts in existing Type III and Type IV floorbeam retrofits (floorbeam web-top flange angles and floorbeam top flange-truss member angles) at panel points listed in the plans with all new A325 bolts, nuts, and DTI washers.

Prior to placement, the Contractor will field verify bolt length. Extra washers will not be allowed, and correct bolt length as specified in the Louisiana Standard Specifications for Roads and Bridges, Section 807.21 will be used.

DTI Washers: DTI washers shall meet the requirements of ASTM F959 and be installed as specified in the Louisiana Standard Specifications for Roads and Bridges, Section 807.21 (j), Direct Tension Indicators, and Section 807.21 in general.

The required repairs (replacement all bolts in existing Type III and Type IV floorbeam retrofits) as described in the plans shall be paid for at the contract unit price which will be full compensation for the replacement all bolts in existing Type III and Type IV floorbeam retrofits, and includes all equipment, tools, labor, and incidentals necessary for this item of work.

Measurement for the repairs to existing Type III and IV retrofits shall be per each.

Payment will be made under:

Item S-119, Repairs to Existing Type III and Type IV Floorbeam Retrofits, per each.

ITEM S-120-D, EPOXY-URETHANE COPOLYMER OVERLAY SYSTEM (ADDITIVE ALTERNATE D1):

SCOPE

This specification describes the Pre-treatment and Overlay consisting of multiple layers of hybrid polymer systems and a special blend of extremely hard aggregate designed to provide a minimum of a 1/4 inch thick application for the purpose of crack treatment, complete waterproofing and providing a non-skid surface to withstand continuous heavy traffic and extreme changes in weather conditions. This specification is intended for use on concrete bridge decks.

MATERIALS

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Pre-treatment

This two part hybrid polymer shall be free of any fillers, volatile solvents and shall be formulated to provide simple volumetric ratio of two components such as one to one or two to one by volume.

This hybrid polymer system shall be formulated to provide a unique combination of extremely low viscosity and low surface tension coupled with a built in affinity for concrete and steel.

Material Requirements for Pretreatment

Physical Requirements of Cured *Pretreatment for Cracks* System.

When Components A and B are mixed in the appropriate ratio, the cured resin shall conform to the requirements of Table 1. (Test methods are discussed in detail in Item 3 of this specification.)

TABLE 1	
PHYSICAL PROPERTIES OF THE CURED SYSTEM	
Property	Value
Compressive Strength, min. psi	5,000
Tensile Strength, min. psi	2500
Tensile Elongation, percent min.	25 ± 5
Water Absorption, percent by wt. max.	0.5%
Shore D Hardness, 25°C (77°F), min.	70 ± 5
Gel Time, minutes	48-52 (100gms)
Adhesion to Concrete	100% failure in concrete
Percent Solids	100

The following is an acceptable material for the Pretreatment:

MARK-135 as manufactured by POLY-CARB, INC. or product approved equal by LA DOTD.

Overlay

The two-part epoxy-urethane co-polymer system shall be free of any fillers volatile solvents and shall be formulated to provide simple volumetric mixing ratio of two components such as one to one or two to one by volume.

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SPECIAL PROVISIONS

The epoxy-urethane co-polymer system shall be formulated to provide flexibility in the system without any sacrifice of the hardness, chemical resistance or strength of the epoxy-urethane co-polymer system. Use of external/conventional flexibilizers is not acceptable. Flexibility shall be introduced by interaction of elastomers to chemically link in the process of curing so that the flexibility of the molecule is least affected during the low temperature conditions that are confronted in actual use.

Material Requirements for Overlay

Physical requirements of Epoxy-Urethane Copolymer Overlay System. When Components A and B are mixed in the appropriate ratio, the cured resin shall conform to the requirements of Table 2. (Test methods are discussed in detail in Item 3 of this specification.)

TABLE 2	
PHYSICAL PROPERTIES OF THE CURED SYSTEM	
Property	Value
Compressive Strength, min. psi	6,000
Tensile Strength, min. psi	2000
Tensile Elongation, percent min.	30 $\pm$ 10
Water Absorption, percent by wt. max.	0.5%
Shore D Hardness, 25°C (77°F), min.	70 $\pm$ 5
Gel Time, minutes	25 – 31 (100 gms)
Abrasion Resistance, mg., max.	85
Adhesion to Concrete	100% failure in concrete
Flexural Yield Strength, min. psi	5,000
Percent Solids	100

Visco-Elastic Properties of Epoxy-Urethane Copolymer system.

The modulus of the cured epoxy-urethane system determined by variable temperature Dynamic Mechanical Analysis (DMA) using DMA instruments and according to ASTM D4065-95, shall conform to the following minimum values as given in Table 3.

TABLE 3
VISCO-ELASTIC PROPERTIES OF THE CURED SYSTEM

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SPECIAL PROVISIONS

TEMPERATURE	STORAGE MODULUS DYNES/SQ.CM.	LOSS MODULUS DYNES/SQ.CM.
-10°C	1×10^9	7×10^7
20°C	6×10^8	7×10^7
50°C	4×10^7	2×10^7
60°C	1×10^7	5×10^6
70°C	6×10^6	1×10^6

The tests shall be conducted at a frequency of 1 Hz with a 0.3% strain in accordance with the guidelines described in the testing equipment manual.

Load Bearing Capabilities

The cured epoxy-urethane system must exhibit the following load bearing capacity. At approximately 20% strain, the polymer shall retain at least 85% of its original load bearing strength (tensile stress) as per ASTM D-638.

The following is an acceptable material for the Overlay:

MARK-163 FLEXOGRID as manufactured by POLY-CARB, INC. or product approved equal by LA DOTD.

Compatibility of Pretreatment and Overlay

The Pretreatment and Overlay system shall be of compatible materials produced, supplied and certified by the same manufacturer.

Aggregate

Aggregate used for all layers shall be non-friable, non-polishing, clean and free from surface moisture. It shall be durable and sound and have a proven record of performance in applications of this type. The aggregate shall be 100 percent fractured, thoroughly washed and kiln dried to a maximum moisture content of 0.2 percent by weight, measured in accordance with ASTM C566. The fracture requirements shall be at least one mechanically fractured face and will apply to materials retained on U.S. No. 10 sieve. The recommended sources of aggregate are **Washington Granite, Oklahoma Flint, or aggregate approved by LA DOTD and the Overlay manufacturer.**

Aggregate for all layers shall have a minimum Mohs scale hardness of 6.5.

The grading of the aggregate shall conform to the requirements of Table 4.

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TABLE 4	
AGGREGATE GRADATION	
Sieve Size	Percent Passing
No 6	60 - 100
No. 10	0 - 20
No. 20	0 - 10

METHOD OF TESTING

Tests shall be conducted in accordance with the following methods:

Compressive Strength: ASTM C109, *Compressive Strength of Hydraulic Cement Mortars*. The two components of the resin are to be thoroughly mixed in their appropriate ratios. Two volumes of graded silica sand in accordance with ASTM C778 shall be added to one volume of mixed resin. The samples shall then be prepared according to the requirements of ASTM C109 and allowed to cure for 7 days at $23 \pm 2^{\circ}\text{C}$.

Tensile Strength and Elongation: ASTM D638, *Tensile Properties of Plastics*, Specimen Type I or Type II. Samples shall be cured at $23 \pm 2^{\circ}\text{C}$ ($73.4 \pm 3.6^{\circ}\text{F}$) and $50 \pm 5\%$ relative humidity. Speed of testing shall be at 0.5 in. /min.

Water Absorption: ASTM D570, *Water Absorption of Plastics*. Sample specimens shall be prepared according to section 4.1 and allowed to cure at $23 \pm 2^{\circ}\text{C}$ ($73.4 \pm 3.6^{\circ}\text{F}$) and $50 \pm 5\%$ relative humidity. Tests are then to be carried out as per section 6.1.

Shore D Hardness: ASTM D2240, *Rubber Property - Durometer Hardness*. Specimen shall be prepared as per ASTM D570 section 4.1 and allowed to cure at $23 \pm 2^{\circ}\text{C}$ ($73.4 \pm 3.6^{\circ}\text{F}$).

Gel Time: The following procedure shall be used to determine gel time. Measure 4 oz. of Part A and 2 oz. of Part B each at 25°C (77°F), into an unwaxed paper cup and record the time and mix immediately. 100 gms of this mixture shall be poured into a 6 oz. unwaxed paper cup and placed on a wooden bench top. Starting twenty minutes from the time recorded above, the mixture shall be probed every two minutes with a small stick until a small ball forms in the center of the container. The total time, including mixing, required for the ball to form shall be regarded as the gel time. The test shall be performed in a room or enclosed area maintained at $25 \pm 2^{\circ}\text{C}$ ($77 \pm 3.6^{\circ}\text{F}$) and $50 \pm 5\%$ relative humidity.

Abrasion Resistance: ASTM C501, *Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abrader*. Tests shall be done using a CS-17 wheel and a 1,000 gram load for 1,000 cycles.

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Adhesion to Concrete: ACI-503-R; Pull Out Test.

Flexural Yield Strength: ASTM D-790.

DMA: ASTM D-4065-95

CONSTRUCTION PRACTICE

Repair of Spalled Areas

Deck patching shall be performed as outlined in Proposal Note utilizing Type I patching material. All patching materials shall be free of Magnesium Phosphate.

Patching shall be scheduled so that the bridge can be open to traffic during all non-working hours.

A polymer patching system such as MARK-120 as manufactured by POLY-CARB, Inc. or material approved by LA DOTD is recommended for shallow and partial depth repair.

Surface Preparation

The entire concrete deck shall be cleaned by shotblasting to remove any oil, dirt, rubber or any other potentially detrimental material such as curing compound and laitances which, in the manufacturer and engineer's opinion, would prevent proper bonding to and curing of the material.

In areas that the shotblasting equipment cannot reach (i.e., along curbs and median walls) or cannot remove (line marking, asphalt, etc.), sandblasting and walk behind grinders are permitted to an extent satisfactory to the manufacturer and engineer. This should be performed prior to the shotblasting whenever applicable and practical.

For asphalt surfaces, the asphalt deck shall be thoroughly power washed to remove any oil, dirt, rubber or any other potentially detrimental material which, in the manufacturer and engineer's opinion, would prevent proper bonding to and curing of the material. This should be done not more than 24 hours prior to application unless otherwise approved by the manufacturer.

Steel surfaces such as expansion joints, sidewalks, steel grids and steel plate to be treated with the restoration system, shall be shot or sand blasted clean to SSPC-SP-6 standards. For steel plate decks, consult overlay treatment manufacturer for appropriate specification.

The overlay application equipment is allowed to drive on the deck surface during application provided precautions have been taken to insure that the deck surface

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will not become contaminated. For any reason traffic is to be allowed on the deck after surface preparation, or between layers, a visual inspection by the manufacturer and LA DOTD Project Engineer will be required to determine if additional surface preparation is needed before applying material.

All surfaces to be treated shall be dry at the time of application. Immediately before the application of any liquids, all prepared surfaces shall be cleaned with compressed air (or vacuumed) to remove dust and debris.

The application of the system shall not be made when it has rained 24 hours before application or rain is forecast (greater than 50%) within eight hours after application or as determined by the manufacturer (fog and high humidity will not impede the application of or affect the performance of the overlay). If waiting for 24 hours is impractical, then the moisture content in concrete substrate shall not exceed 4.5% when measured by an electronic moisture meter. Any exception shall be determined by the moisture content present in the deck which shall not exceed 75% of air entrainment in the mix design.

The minimum recommended temperature in which the system shall be applied is 50°F and rising. All applications at temperatures below 50°F shall require prior written approval from the manufacturer.

Application of Overlay System

The manufacturer of the epoxy-urethane overlay material shall have a company representative on the jobsite at all times who, upon consultation with the engineer, may suspend any item of work that is suspect and does not meet the requirements of this specification. Resumption of work will occur only after the manufacturer's representative and the engineer are satisfied that appropriate remedial action has been taken by the contractor.

The overlay shall be applied on all deck areas using metering, mixing and distribution machinery owned and operated by the manufacturer of the epoxy-urethane overlay system. The application machine shall feature positive displacement volumetric metering pumps controlled by a hydraulic power unit. Components A and B shall be stored in temperature controlled reservoirs capable of maintaining 100°F ± 10°F to insure optimum mixing. Ratio check verification at the pump outlets as well as cycle counting capabilities to monitor output will be standard features. In line mixing shall be motionless so as to not overly shear the material or entrap air in the mix. The machine shall also make maximum use of the working time of the material to insure proper "wetting" of the system by mixing it immediately prior to dispensing onto the deck.

The number of layers (a minimum of three) and the application rates of the liquid in the various layers shall be as recommended by the manufacturer in order to achieve an average overlay thickness as required by the project plans and specifications.

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SPECIAL PROVISIONS

Hand mixing of material is not permitted.

Application of Pre-treatment (First layer - Crack Filling)

Application of the Liquid: After mechanically measuring and mixing of the components, the liquid shall be evenly distributed on the clean, dry deck surface at the rate/process recommended by the manufacturer. The overlay application equipment may drive on this layer (prior to being cured) when applying the overlay system.

If the overlay application is going to be applied after 6-8 hrs of the pretreatments application, a medium size coarse silica sand shall be broadcasted evenly into the pre-treatment system (prior to it curing) as directed by the manufacturer.

Application of Overlay (Second and Third Layers)

Application of the Liquid: Prior to the application, if there exists any excess or loose aggregate from the previous coat, such excess aggregate shall be completely removed by vacuum or with compressed air. After mixing of the components via the mechanical application equipment, the liquid shall be evenly distributed on the clean, dry deck surface at the rate as recommended by the manufacturer.

After the application of the liquid in the second and third coats, the maximum time allowed before broadcasting of the aggregate is as follows:

Above 90°F		10 minutes
80°F to 90°F		15 minutes
70°F to 80°F		20 minutes
60°F to 70°F		25 minutes
50°F to 60°F		35 minutes

No vehicle shall be allowed on the overlay during the curing period.

Broadcasting on decks shall be by truck-mounted equipment capable of dispensing the aggregate onto the deck in a uniform manner as directed or otherwise approved by the manufacturer of the epoxy-urethane overlay.

Aggregate conforming to Section 2.4 shall be broadcast to saturation in the second and third layers of liquid treatment before the co-polymer begins to gel (see section 4.3.6) so that the surface is covered and no wet spots appear. The aggregate must be dropped vertically in such a manner that the level of the liquid is not disturbed.

The Contractor shall be required to contain this debris to protect adjacent traffic lanes during application of liquid or broadcasting of aggregate.

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Removal of Excess Aggregate: After the overlay has hardened, removal of all loose and excess aggregate with a power vacuum or other method shall be made prior to the application of subsequent coats.

Joints in the Overlay (i.e., between two adjacent lanes) shall be staggered and overlapped between successive coats so that no ridges will appear.

Traffic may be allowed on the final layer (or in between layers) after the resin has cured (as determined by the manufacturer) and after removal of all excess, loose aggregate.

STORAGE AND HANDLING

Liquid Material: All material shall be transported and stored in their original containers inside a dry, temperature controlled facility and maintained at a minimum temperature of 60°F and not to exceed 120°F.

Job Site Storage: The materials shall be stored on the jobsite in a dry, weather protected facility away from moisture and within the temperature range of 60°F to 90°F. When the materials are transported or stored on the job in the application machine tanks, the material must also be maintained at a temperature of 60°F to 90°F. Outdoor storage is permitted with manufacturer's approval.

Handling of Liquid Materials on the Job: Protective gloves, clothing, and goggles shall be provided to workers and inspectors directly exposed to the material if required. Product safety data sheets shall be provided to all workers and inspectors as obtained from the manufacturer.

Packing Requirement: All materials must be packaged in strong, substantial containers. The containers shall be identified as Part A and Part B and shall be plainly marked with the name and address of the manufacturer, name of the product, mixing proportions and instructions, lot and batch numbers, date of manufacture, and quantity contained therein.

Aggregate: All aggregate shall be stored in a dry, moisture-free atmosphere. The aggregate shall be fully protected from any contaminants on the jobsite and shall be stored so as not to be exposed to rain or other moisture sources.

SAMPLING AND ACCEPTANCE

Product Acceptance: The manufacturer of the system shall provide evidence of field performance, lab performance with infrared spectra in order to obtain state approval of the overlay system for use on the project:

Independent Lab Performance

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A nationally recognized independent lab must verify that the material:

1. Has the capability of preventing the ingress of essentially all the chloride ions into the concrete at 1" depth when tested according to NCHRP-244 method.
2. Has the capability to de-activate the existing chloride ions present in the concrete specimen so that the corrosion of steel rebars embedded in the concrete stop corroding.
3. When tested as per Tables 1, 2 and 3, fully comply with the test results specified for cured system.

Infrared Spectrograph: In addition to the initial certification process each manufacturer shall furnish the state as infrared spectra of each component of system for its permanent record and for individual installation verification.

Field Performance: The selected Epoxy-urethane Copolymer Overlay system must have verifiable satisfactory performance of at least ten (10) years in the state of Louisiana on a major highway as well as in three equally climatic states.

Certification for Compliance: At the pre-construction conference, the contractor shall notify the LA DOTD Project Engineer of the source of material.

Independent Test Lab Report: Test results certified and verified by a nationally recognized independent testing laboratory verifying properties of the cured system as per Table 1, 2 & 3 shall be submitted to the engineer for approval prior to the bid opening. This certification shall be provided on each lot number to be used on the project.

Infrared Spectra: Infrared spectra of each component from each lot number (to be used on the project) shall be submitted with the independent lab certification.

Test Sample for DOT Laboratory: The manufacturer shall furnish at least a one-quart sample of each component from each lot to the DOT laboratory to verify material supplied by the manufacturer.

Performance Acceptance

Thickness Verification: The LA DOTD Project Engineer shall be notified of the number of gallons used on the project with two notarized statements - one from the contractor and one from the manufacturer. In addition, the contractor shall verify to the LA DOTD that the overlay thickness meets the requirements of the project plans and specifications by either a volumetric method or by core sampling at areas determined by the plans, specifications or random locations as directed by the Project Engineer.

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Areas deemed by LA DOTD to be of unacceptable thickness shall be re-coated as described above by the contractor and re-verified at no additional cost to the LA DOTD. This verification may consist of cores, holes, etc., but in all cases, any destructively tested areas shall be repaired by the contractor before final acceptance by the LA DOTD.

Performance Guarantee: The epoxy-urethane co-polymer manufacturer and the contractor, by acceptance of the work described in this specification, jointly agree to guarantee the wearing surface against all defects incurred during normal traffic use for a period of ten (10) years. The guarantee period shall commence on the date of acceptance of the work, usually the date traffic is allowed on the final layer of the overlay. The guarantee covers all labor and materials required to satisfactorily repair or replace the wearing surface.

BASIS OF PAYMENT

This item includes all materials and labor required to furnish, install, test, and complete all the above described work.

Payment for completed and accepted quantities as measured and described above will be made at the contract price bid for:

ITEM	DESCRIPTION	UNIT
S-120-D	Epoxy-Urethane Copolymer Overlay System (Additive Alternate D-1)	Square Yard

ITEM S-121-D, BRIDGE DECK PATCHING (ADDITIVE ALTERNATE D1): This item shall consist of deck patching, removal and replacement of old patching, and repair of spalled areas of concrete bridge deck required before application of the epoxy-urethane copolymer overlay system. Prior to installation of deck patching and the copolymer overlay system, the Contractor shall submit to the DOTD a sketches showing location and size of spalls and old patching to be replaced for approval by the DOTD. Additional patching may be required at the option of the Project Engineer, to be paid for at the contract unit price.

Spall and bridge deck patching shall meet the requirements specified in Item S-120-D, Epoxy-urethane Copolymer Overlay System (Additive Alternate D1), Section 4.1, Repair of Spalled Areas.

Measurement for bridge deck patching shall be per square yard (sq. yd.).

The required bridge deck patching and repair of spalled areas as described in the plans shall be paid for at the contract unit price which will be full compensation for bridge deck patching, removal and replacement of old patching, and repair of spalled areas, and includes all equipment, tools, labor, and incidentals necessary for this item of work.

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SPECIAL PROVISIONS

Payment will be made under:

Item S-121-D, Bridge Deck Patching (Additive Alternate D1), per square yard.

ITEM S-122-D, DYNAMIC MESSAGE SIGN UNIT (ADDITIVE ALTERNATE D1): This work consists of furnishing, operating and maintaining solar powered portable dynamic (changeable) message signs to be used at locations designated on the plans or as directed by the Project Engineer.

The dynamic message sign shall be in good operational condition when delivered to the job site. The Project Engineer will inspect the signs, and if they are found to be in good operational condition with all working parts functioning, the signs will be approved for use on the project.

The message sign shall consist of three separate lines. Each line shall consist of eight characters. Each character shall nominally be 18 inches (450 mm) in height. The width shall be adequate to meet the below legibility requirements. Each character shall be a 5 X 7 LED module or hybrid LED disk. Characters shall be separated at a distance such that the legibility requirements are maintained.

All internally illuminated portions of the sign shall be amber in color. All other illuminated surfaces meant for message display shall be fluorescent yellow. All other surfaces on the front panel shall be flat black in color.

The sign shall be clearly visible under all conditions and all lanes of travel from a distance of 1000 feet (300 m) perpendicular to the sign center. The sign shall maintain this legibility throughout the entire project. The contractor shall be responsible for maintaining this minimum legibility. Determination of legibility distance shall rest solely with the Project Engineer.

The portable dynamic message sign shall be used in conjunction with other traffic signs and devices in accordance with the plans, project specifications and as directed by the Project Engineer.

The signs shall be stored in an approved secure storage area when not in use. The contractor shall be required to perform all maintenance operations recommended by the manufacturer and keep adequate records of such operations.

The signs shall be kept clean and in good repair at all times. This includes keeping unit clean.

Measurement of the dynamic message sign unit will be per each.

Payment for the dynamic message signs will be made at the contract unit price per each which will be full compensation for furnishing, operating, relocating and maintaining the unit

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during the life of the contract and includes all equipment, tools, labor and incidentals necessary for this item of work.

Payment will be made under:

Item S-122-D, Dynamic Message Sign Unit (Additive Alternate D1), per each.

CONTRACT TIME: The entire contract shall be completed in all details and ready for final acceptance in accordance with Subsection 105.17(b) within **two hundred (200) working days**.

Prior to assessment of contract time, the contractor will be allowed 90 calendar days from the date stipulated in the Notice to Proceed to commence with portions of the contract work including but not limited to assembly periods, preparatory work for materials fabrications such as test piles, or other activities which hinder progress in the beginning stages of construction. Prior to issuance of the Notice to Proceed, the Department will consider extending the assembly period upon written request from the contractor justifying the need for additional time.

The contractor shall be responsible for maintenance of traffic from the beginning of the assembly period. During the assembly period, the contractor will be allowed to do patching and other maintenance work necessary to maintain the roadway with no time charges when approved by the engineer.

If the contractor begins regular construction operations prior to expiration of the assembly period, the assessment of contract time will commence at the time construction operations are begun.

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS
(FOR 2006 STANDARD SPECIFICATIONS)

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**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS**

The 2006 Louisiana Standard Specifications for Roads and Bridges and supplemental specifications thereto are amended as follows.

PART I – GENERAL PROVISIONS

SECTION 101 – GENERAL INFORMATION, DEFINITIONS, AND TERMS:

Subsection 101.03 – Definitions (07/07), Pages 3 – 13).

Delete the definition for “Proposal/Bid Guaranty” and substitute the following.

Proposal / Bid Guaranty. The required security furnished with a bid. The only form of security acceptable is a Bid Bond.

SECTION 102 – BIDDING REQUIREMENTS:

Subsection 102.09 – Proposal / Bid Guaranty (07/07), Page 19.

Delete the contents of this subsection and substitute the following.

PROPOSAL/BID GUARANTY. Each bid shall be accompanied by a proposal/bid guaranty in an amount not less than five percent of the total bid amount when the bidder’s total bid amount as calculated by the Department in accordance with Subsection 103.01 is greater than \$50,000. No proposal/bid guaranty is required for projects when the bidder’s total bid amount as calculated by the Department is \$50,000 or less. The official total bid amount for projects that include alternates is the total of the bidder's base bid and all alternates bid on and accepted by the Department. The proposal/bid guaranty submitted by the bidder shall be a bid bond made payable to the contracting agency as specified on the bid bond form provided in the construction proposal. No other form of security will be accepted.

The bid bond shall be on the "Bid Bond" form provided in the construction proposal, on a form that is materially the same in all respects to the "Bid Bond" form provided, or on an electronic form that has received Department approval prior to submission. The bid bond shall be filled in completely, shall be signed by an authorized officer, owner or partner of the bidding entity, or each entity representing a joint venture; shall be signed by the surety's agent or attorney-in-fact; and shall be accompanied by a notarized document granting general power of attorney to the surety's signer. The bid bond shall not contain any provisions that limit the face amount of the bond.

The bid bond will be written by a surety or insurance company that is in good standing and currently licensed to write surety bonds in the State of Louisiana by the Louisiana Department of Insurance and also conform to the requirements of LSA-R.S. 48:253.

All signatures required on the bid bond may be original, mechanical reproductions, facsimiles or electronic. Electronic bonds issued in conjunction with electronic bids must have written Departmental approval prior to use. The Department will make a listing of approved electronic sureties providers on the Bidx.com site.

SECTION 107 – LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC:

Subsection 107.05 – Federal Aid Participation (04/08), Pages 57 and 58.

Delete the second paragraph.

SECTION 108 – PROSECUTION AND PROGRESS:

Subsection 108.04 – Prosecution of Work (03/05) Pages 74 and 75.

Add the following sentence to the third paragraph of Heading (b).

Should the surety or the Department take over prosecution of the work, the contractor shall remain disqualified for a period of one year from the completion of the project, unless debarment proceedings are instituted.

When the Department of Transportation and Development is not the contracting agency on the project, the second paragraph under Heading (c) is deleted.

PART II – EARTHWORK

SECTION 202 – REMOVING OR RELOCATING STRUCTURES AND OBSTRUCTIONS:

Subsection 202.06 – Plugging or Relocating Existing Water Wells (03/04), Page 105.

Delete the first sentence and substitute the following.

All abandoned wells shall be plugged and sealed at the locations shown on the plans, or as directed by the engineer, in accordance with the “Water Well Rules, Regulations, and Standards, State of Louisiana.” This document is available at the Department of Transportation and Development, Water Resources Section, P. O. Box 94245, Baton Rouge, Louisiana 70804-9245. The Water Resource Section’s telephone number is (225) 274-4172.

PART III – BASE COURSES

SECTION 302 – CLASS II BASE COURSE:

Subsection 302.05 – Mixing (08/06), Pages 152 and 153.

Delete the first sentence of Subheading (b)(1), In-Place Mixing, and substitute the following.

In-place mixing shall conform to Heading (a)(1) except that the percentage of Type I portland cement required will be 6 percent by volume.

SECTION 305 – SUBGRADE LAYER:

Subsection 305.06 – Payment (01/08), Page 184.

Delete the contents of this subsection and substitute the following.

305.06 Payment. Payment for subgrade layer will be made at the contract unit price which includes lime, lime treatment, cement, cement treatment, water, stone, recycled portland cement concrete, crushed slag, blended calcium sulfate, asphaltic concrete, and asphalt curing membrane or prime coat, subject to the payment adjustment provisions of Section 1002 for specification deviations of asphalt materials and Subsection 303.11(a) for density deficiencies of cement treated materials. Adjustments in pay for increase or decrease in the percent cement ordered by the engineer will be in accordance with Subsection 303.13. Adjustments in pay for

increase or decrease in the percent lime ordered by the engineer will be based on the price of lime shown on paid invoices (total of all charges). The Materials and Testing Section will provide the payment adjustment percentage for properties of asphalt materials.

Payment for geotextile fabric will be included in the contract unit price for subgrade layer.

Payment will be made under:

Item No.	Pay Item	Pay Unit
305-01	Subgrade Layer _____ in (mm) Thick	Square Yard (Sq m)

SECTION 307 – PERMEABLE BASES:

Subsection 307.02 – Materials (09/07), Pages 187 and 188.

Delete the contents of Subheading (b), Asphalt, and substitute the following.

(b) Asphalt: The asphalt for asphalt treated permeable base shall be an approved polymer modified asphalt cement, PG 76-22m, or PG 82-22rm complying with Section 1002. The percentage of asphalt cement shall be 2.0 percent to 4.0 percent by weight (mass) of the total mixture. Asphalt cement content and mixing process shall be such that all aggregates are visibly coated. The mixture shall retain 90 percent coating when tested in accordance with DOTD TR 317.

A job mix formula shall be submitted and approved in accordance with Section 502.

SECTION 308 – IN-PLACE CEMENT TREATED BASE COURSE:

All Subsections within Section 308 – (07/07), Pages 191 – 198.

Whenever the reference to “DOTD TR-432, Method D” is used, it shall mean “DOTD TR-432”.

PART V – ASPHALTIC PAVEMENTS

SECTION 502 – SUPERPAVE ASPHALTIC CONCRETE MIXTURES:

Subsection 502.02 – Materials (08/06) (11/07), Pages 210 – 213.

Delete Table 502-2, Superpave Asphalt Cement Usage under Subheading (a) and substitute the following.

Table 502-2
Superpave Asphalt Cement Usage

Current Traffic Load Level	Mixture Type	Grade of Asphalt Cement
Level 1	Wearing Course	PG 70-22m
	Binder Course	PG 70-22m
	Base Course	PG 64-22
Level 2	Wearing Course	PG 76-22m
	Binder Course	PG 76-22m
Level A	Incidental Paving	PG 70-22m

Note: A PG 82-22 rm, Waste Tire Rubber Modified Asphalt, may be substituted for any other grade of asphalt cement.

Delete Table 502-3, Aggregate Friction Rating under Subheading (c)(1) and substitute the following.

Table 502-3
Aggregate Friction Rating

Friction Rating	Allowable Usage
I	All mixtures
II	All mixtures
III	All mixtures, except travel lane wearing courses with plan ADT greater than 7000 ¹
IV	All mixtures, except travel lane wearing courses ²

¹ When plan current average daily traffic (ADT) is greater than 7000, blending of Friction Rating III aggregates and Friction Rating I and/or II aggregates will be allowed for travel lane wearing courses at the following percentages. At least 30 percent by weight (mass) of the total aggregates shall have a Friction Rating of I, or at least 50 percent by weight (mass) of the total aggregate shall have a Friction Rating of II. The frictional aggregates used to obtain the required percentages shall not have more than 10 percent passing the No. 8 (2.36 mm) sieve.

² When the average daily traffic (ADT) is less than 2500, blending of Friction Rating IV aggregates with Friction Rating I and/or II aggregates will be allowed for travel lane wearing courses at the following percentages. At least 50 percent by weight (mass) of the total aggregate in the mixture shall have a Friction Rating of I or II. The frictional aggregates used to obtain the required percentages shall not have more than 10 percent passing the No. 8 (2.36 mm) sieve.

Subsection 502.14 – Lot Sizes (11/07), Pages 232 and 233.

Delete the first sentence of the first paragraph and substitute the following.

A lot is a segment of continuous production of asphaltic concrete mixture from the same job mix formula produced for the Department at a specific plant, delivered to a specific DOTD project.

SECTION 508 – STONE MATRIX ASPHALT:

Subsection 508.01 – Description (09/07), Page 274.

Delete this subsection and substitute the following.

508.01 DESCRIPTION. This work consists of furnishing and constructing Stone Matrix Asphalt (SMA) which is a plant mixed asphalt concrete wearing course for high traffic applications. This mixture is a rut resistant hot mix design with stone on stone contact. The mixture shall be composed of a PG 76-22m, or PG 82-22rm asphalt cement and a gap graded coarse aggregate structure. Mineral filler and/or fibers shall be used to control draindown. This work shall be in accordance with these specifications, plan details, and as directed. All requirements of Section 502 apply to Stone Matrix Asphalt, except as modified herein. All plant and paving equipment and processes must meet the requirements of Section 503.

Mixture used for shoulder may be Stone Matrix Asphalt or any mixture type shown in Table 502-5.

Subsection 508.02 – Materials (09/07), Page 274.

Delete the contents of subheading (a), Asphalt Cement and substitute the following.

(a) Asphalt Cement: Asphalt cement shall be PG 76-22m, or PG 82-22rm as listed on QPL 41 and complying with Section 1002.

PART VI – RIGID PAVEMENT

SECTION 602 – PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION:

Subsection 602.17 – Payment (09/07), Pages 341 – 344.

Delete the last paragraph of Subheadings (d), Full Depth Corner Patching of Jointed Concrete Pavement, (e) Full Depth Patching of Jointed Concrete Pavement, and (g) Patching Continuously Reinforced Concrete Pavement, and substitute the following.

Payment for deteriorated base course removed as directed by the engineer and replaced with concrete will be made as follows: The value per inch (mm) thickness will be determined by dividing the contract unit price per square yard (sq m) by the plan thickness. Thickness of patches will be measured from the surface that exists at the time of patching. Payment for the additional thickness will be made at 50 percent of the value per inch (mm) thus determined.

PART VII – INCIDENTAL CONSTRUCTION

SECTION 701 – CULVERTS AND STORM DRAINS:

All Subsections within Section 701 (08/07), Pages 347 – 358.

Delete Section 701, Culverts and Storm Drains and substitute the following.

SECTION 701
CULVERTS AND STORM DRAINS

701.01 DESCRIPTION. This work consists of furnishing, installing, and cleaning pipe, pipe arch, storm drains and sewers, also referred to as culverts or conduit, in accordance with these specifications and in conformity with lines and grades shown on the plans or established.

701.02 MATERIALS. Materials shall comply with the following sections and subsections:

Usable Soil	203.06(a)
Selected Soil	203.06(b)
Plastic Soil Blanket	203.10
Mortar	702.02
Flowable Fill	710
Portland Cement Concrete	901
Reclaimed Asphaltic Pavement (RAP)	1003.01 & 1003.04(d)
Stone	1003.03(b)
Recycled Portland Cement Concrete	1003.03(c)
Granular Material	1003.07
Bedding Material	1003.08
Concrete Sewer Pipe	1006.02
Reinforced Concrete Pipe	1006.03
Reinforced Concrete Pipe Arch	1006.04
Gasket Materials	1006.06
Plastic Pipe	1006.07
Split Plastic Coupling Bands	1006.07(d)(4)
Plastic Yard Drain Pipe	1006.09
Bituminous Coated Corrugated Steel Pipe and Pipe Arch	1007.02
Structural Plate for Pipe, Pipe Arch and Arch	1007.04
Corrugated Aluminum Pipe and Pipe Arch	1007.05
Coupling Bands	1007.09
Reinforcing Steel	1009
Geotextile Fabric	1019

(a) Side Drain Pipe or Side Drain Pipe Arch: When the item for Side Drain Pipe or Side Drain Pipe Arch is included in the contract, the contractor has the option of furnishing reinforced concrete pipe or reinforced concrete pipe arch, corrugated metal pipe or corrugated metal pipe arch, or plastic pipe, as allowed by EDSM II.2.1.1 or unless otherwise specified.

(b) Cross Drain Pipe or Cross Drain Pipe Arch: When the item for Cross Drain Pipe or Cross Drain Pipe Arch is included in the contract, the contractor has the option of furnishing reinforced concrete pipe or reinforced concrete pipe arch, corrugated metal pipe or corrugated metal pipe arch, or plastic pipe, as allowed by EDSM II.2.1.1 or unless otherwise specified.

(c) Storm Drain Pipe or Storm Drain Pipe Arch: When the item for Storm Drain Pipe or Storm Drain Pipe Arch is included in the contract, the contractor has the option of furnishing reinforced concrete pipe or reinforced concrete pipe arch, or plastic pipe, as allowed by EDSM II.2.1.1 or unless otherwise specified.

(d) Yard Drain Pipe: When the item for Yard Drain Pipe is included in the contract, the contractor has the option of furnishing concrete sewer pipe, plastic yard drain pipe or plastic pipe in accordance with Section 1006 unless otherwise specified.

(e) Material Type Abbreviations:

(1) Reinforced Concrete Pipe:

RCP	Reinforced Concrete Pipe
RCPA	Reinforced Concrete Pipe Arch

(2) Corrugated Metal Pipe:

CAP	Corrugated Aluminum Pipe
CAPA	Corrugated Aluminum Pipe Arch
CMP	Corrugated Metal Pipe
CMPA	Corrugated Metal Pipe Arch
CSP	Corrugated Steel Pipe
CSPA	Corrugated Steel Pipe Arch
BCCSP	Bituminous Coated Corrugated Steel Pipe
BCCSPA	Bituminous Coated Corrugated Steel Pipe Arch

(3) Plastic Pipe:

PP	Plastic Pipe
PVCP	Polyvinyl Chloride Pipe
RPVCP	Ribbed Polyvinyl Chloride Pipe
CPEPDW	Corrugated Polyethylene Pipe Double Wall

(f) Joint Type Abbreviations:

T1	Type 1 Joint
T2	Type 2 Joint
T3	Type 3 Joint

(g) Quality Assurance for Pipe: Manufacturing plants will be periodically inspected for compliance with specified manufacturing methods, and material samples will be randomly obtained for laboratory testing for verification of manufacturing lots. Materials approved at the manufacturing plant will be subject to visual acceptance inspections at the jobsite or point of delivery.

701.03 EXCAVATION. For all pipe, when the sides of the trench are stable as evidenced by the sides of the trench being able to maintain a vertical cut face, the minimum trench width at the bottom of the excavation will be 18 inches (460mm) on either side of the outside diameter of the pipe. If the sides of the trench are unstable, the width of the trench at the bottom of the excavation, for plastic or metal pipe, shall be a minimum width of at least 18 inches (460mm) or one pipe diameter on each side of the outside diameter of the pipe, which ever is greater. Surplus material or excavated material that does not conform to the requirements of Subsection 203.06(a) shall be satisfactorily disposed of in accordance with Subsection 202.02. Moisture controls

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including backfill materials selection and dewatering using sumps, wells, well points or other approved processes may be necessary to control excess moisture during excavation, installation of bedding, over-excavated trench backfilling, pipe placement and pipe backfill.

(a) Over-excavation: When unsuitable soils as defined in Subsection 203.04 or a stable, non-yielding foundation cannot be obtained at the established pipe grade, or at the grade established for placement of the bedding, unstable or unsuitable soils below this grade shall be removed and replaced with granular material meeting the requirements of Subsection 1003.07, bedding materials meeting the requirements of Subsection 1003.08 or Type A backfill. All granular, backfill materials placed below the established pipe or bedding grade shall be placed in lifts not exceeding 8 inches (200 mm) thick and sufficiently compacted by hand or a dynamic mechanical hand compaction device over the surface of each lift to form a stable, non-yielding foundation at the surface of the established bedding or pipe grade.

When rock is encountered, it shall be removed below grade and replaced with material complying with Subsection 1003.07, bedding materials meeting the requirements of Subsection 1003.08 or Type A backfill. The compacted earth cushion shall have a thickness under the pipe of at least 1/2 inch per foot (40 mm/m) of fill height over the top of the pipe with a minimum thickness of 8 inches (200 mm). All granular, backfill materials placed below the established pipe or bedding grade shall be placed in lifts not exceeding 8 inches (200 mm) thick and sufficiently compacted by hand or a dynamic mechanical hand operated compaction device over the surface of each lift to form a stable, non-yielding foundation at the surface of the established bedding or pipe grade.

Materials used to backfill in an over-excavated portion of a trench do not require encasement in a Geotextile Fabric.

Density of approved materials placed in over-excavated trenches will not be measured or determined.

701.04 FORMING PIPE BED. Bedding material, when specified, shall be constructed in accordance with Section 726. Materials allowed for bedding shall be as specified in Subsection 1003.08 or may be Type A backfill materials. When bedding materials are specified, additional excavation shall be performed below established pipe grade and the bedding material placed in lifts not exceeding 8 inches (200 mm) thick and lightly compacted by hand or a dynamic hand compaction device over the surface of each lift.

When the bottom of the pipe is not laid in a trench but is constructed above natural soils, a uniform bed shall be constructed as specified for the bottom of a trench.

Density of approved bedding materials will not be measured or determined.

701.05 LAYING PIPE. Pipe laying shall begin at the downstream end of the line. The pipe shall be in contact with the foundation throughout its length. Bell or groove ends of pipe and outside circumferential laps of riveted metal pipe shall be placed facing upstream. Riveted seam metal pipe shall be placed with longitudinal laps at sides. Pipes in each continuous line shall have the same wall thickness. Metal pipes provided with lifting lugs shall be handled only by these lugs.

After pipe has been laid and before backfill is placed, the engineer will inspect the pipe for alignment, grade, integrity of joints, and coating damage.

701.06 JOINING PIPE.

(a) Joint Usage:

(1) Type 1 (T1) joints shall be used for side drains under drives and similar installations.

(2) Type 2 (T2) joints shall be used for cross drains under roadways, including turnouts.

(3) Type 3 (T3) joints shall be used for closed storm drain systems, flumes and siphons.

(b) Concrete Pipe: Concrete pipe may be either bell and spigot, or tongue and groove. The method of joining pipe sections shall be such that ends are fully entered and inner surfaces are flush and even.

An approved mechanical pipe puller shall be used for joining pipes over 36 inches (900 mm) in diameter. For pipe 36 inches (900 mm) or less in diameter, any approved method for joining pipe may be used which does not damage the pipe.

Joints shall comply with Subsection 1006.05, and shall be sealed with gasket material installed in accordance with the manufacturer's recommendations.

(c) Metal Pipe: Metal pipe shall be firmly joined by coupling bands. Bands shall be centered over the joint.

For Type 1 joints, approved gasket material shall be placed in one corrugation recess on each side of the joint at the coupling band and on each band connection in such manner to prevent leakage.

When Type 2 or 3 joints are specified, joining of metal pipe sections shall conform to the following provisions:

(1) General: Band joints shall be sealed with gasket material. Gasket material shall be placed in accordance with the plan details.

(2) Circular Section: Connecting bands shall be of an approved design and shall be installed in accordance with plan details.

(3) Arch Section: Connecting bands shall be a minimum of 12 inches (300 mm) wide for pipe arch less than 36 inches (900 mm) round equivalent diameter, and a minimum of 21 inches (525 mm) wide for 36 inches (900 mm) round equivalent diameter pipe arch and greater. Bands shall be connected at the ends by approved angle or strap connections. Connecting bands used for 36 inches (900 mm) round equivalent diameter pipe arch and above shall be 2-piece bands.

(d) Plastic Pipe: Joints for plastic pipe shall be either bell and spigot or split coupling bands.

(1) Bell and Spigot Type Joint System: The method of joining pipe sections shall be such that ends are fully entered and inner surfaces are flush and even.

Any approved method for joining pipe may be used which does not damage the pipe.

Joints shall be approved and shall be sealed with a gasket system utilizing gasket material complying with Subsection 1006.06(a).

(2) Split Coupling Type Joint System: Split coupling bands shall comply with all dimensional and material requirements of Subsection 1006.07. The bands shall be centered over the joint. The split coupling band shall be secured to the pipe with a minimum of five stainless steel or other approved corrosion resistant bands.

Joints shall be approved and shall be sealed with gasket material. Gasket material shall be placed in the first two corrugation recesses on each side of the pipe connections. Gasket material shall also be placed on each band connection to prevent leakage. When flexible plastic gasket material is used it shall be a minimum of 1/2 inch (13 mm) in size. The bands shall be tightened to create overlap of the band and shall adequately compress the gasket material.

(e) Connections: Approved connections shall be used when joining new pipes to existing pipes. When concrete collars are required in order to extend the ends of existing pipes that have been damaged or to join different types or sizes of pipes, the concrete collars shall be constructed in accordance with plan details, the applicable requirements of Section 901, and as directed.

(f) Geotextile Fabric, Pipe Joints: For concrete, metal and plastic pipes, Types 2 and 3 joints shall be wrapped with geotextile fabric for a minimum of 12 inches (300 mm) on each side of joint for pipe 36 inches (900 mm) or less in diameter and a minimum of 18 inches (450 mm) on each side of the joint for pipe greater than 36 inches (900 mm) in diameter. Ends of the fabric shall be lapped at least 10 inches (250 mm). The edges and ends of fabric shall be suitably secured for the entire circumference of the pipe.

701.07 RELAYING PIPE. If specified or directed, existing pipes shall be removed and suitable sections relaid as specified for new pipes.

701.08 BACKFILLING.

(a) General: Prior to backfilling, pipes found to be damaged or out of alignment or grade shall be removed and reinstalled, or replaced.

Type A backfill material shall be stone, recycled portland cement concrete, flowable fill, or RAP.

Type B backfill materials are selected soils. Where Type B backfill materials are called for, Type A backfill materials may be substituted.

When corrugated metal pipe is used, the backfill material shall be tested and shall have a resistivity greater than 1500 ohm-cm and a pH greater than 5 when tested in accordance with DOTD TR 429 and DOTD TR 430 respectively.

When Type A backfill material is used, geotextile fabric surrounding this backfill shall be placed in accordance with Subsection 726.03 between the aggregate backfill material and all other natural or placed soils in the trench or embankment. Care shall be taken to prevent damage to geotextile fabric during placement of backfill material. For concrete pipe, the fabric shall enclose not only the initial backfill but shall be wrapped over the top of the pipe with at least 12 inches (300 mm) of overlap.

When a trench box or trench sheeting is used in unstable soils and/or for worker safety, and when moved during backfilling operations, filling and additional compaction of the disturbed zone of backfill must take place immediately and in a manner acceptable to the engineer.

Initial backfill is a structural backfill encasing the pipe from the bottom of the pipe to the springline for concrete pipe and to a point one foot (0.3 m) above the top of the pipe for both metal and plastic pipe. Final backfill is not a structural backfill and shall extend from the top of the initial backfill to the top of the natural ground or subgrade in cut areas or to the top of existing ground in fill areas. Any fill required above the final backfill is considered and treated as embankment.

(b) Backfill Applications: For projects using A+B+C bidding method where rigid and flexible pavement alternates are considered, backfill application (2) below, "Cross Drains Under Flexible Pavements", shall apply for either rigid or flexible pavements.

(1) Under Concrete Pavements: Type B backfill may be used as initial and final backfill for all pipes, culverts or drains under concrete pavements. Placement and compaction shall be as specified in Heading (d) below.

(2) Cross Drains Under Flexible Pavements: All reaches, exclusive of those portions of the pipe which are under shoulders, of cross drains and all other culverts, pipes or drains that cross the centerlines of the new roadway or centerlines of existing roadways, such as intersections and are under flexible pavements shall receive an initial backfill of Type A material. Type B backfill materials may be used as final backfill for all pipes. Placement and compaction shall be as specified in Heading (c) and (d) below. Where the subgrade is above existing ground, embankment material as specified for the remainder of the project shall be used from the top of the final backfill to the top of the established embankment grade.

(3) Other Drains Under Flexible Pavements: All reaches of all culverts, pipes or drains under flexible pavements that do not cross the centerlines of new roadway or centerlines of existing roadways, and exclusive of those portions of the pipe which are totally under shoulders, shall receive an initial and final backfill of Type B material. Placement and compaction shall be as specified in Heading (d) below. Where the subgrade is above existing ground, embankment material as specified for the remainder of the project shall be used from the top of the final backfill to the top of the established embankment grade.

(4) Other Areas: All culverts, pipes or drains in nonpaved areas or paved areas that serve as driveways or shoulders shall receive an initial and final backfill of Type B material. Placement and compaction shall be as specified in Heading (d) below.

(5) Pipes Subject to Construction Traffic; The embankment or pipe backfill shall be constructed to a minimum of 24 inches (600 mm) over the pipe before heavy construction equipment is allowed to cross the installation. Where practical, installations with less than 24 inches (600 mm) of cover over the top of the pipe shall be constructed after heavy hauling is completed over the pipe location. After completion of hauling operations, the contractor shall remove excess cover material. Pipe damaged by hauling and backfilling operations shall be removed and reinstalled, or replaced, at no direct pay.

(c) Placement and Compaction; Type A Backfill: For all pipes, culverts and conduits under paved and nonpaved areas, where Type A backfill material is used, the Type A backfill shall be thoroughly hand compacted under the pipe haunches and then dynamically compacted in layers not exceeding 8 inches (200 mm) compacted thickness. Compaction under the haunches of the pipe shall initially be by hand tamping or other acceptable means, until a level is reached that the dynamic tamping can commence. Each lift shall be compacted by applying at least eight

passes of a hand operated, dynamic mechanical compaction device over the surface of each lift. With approval of the engineer, layer thickness may be increased to 12 inches (300 mm) with verification of satisfactory installation and performance. If flowable fill is used it shall be furnished, placed and consolidated in accordance with Section 710. The contractor shall control placement operations during initial backfill operations so as not to damage protective coatings on metal pipes. The contractor shall repair damaged coatings at no additional pay.

(d) Placement and Compaction; Type B Backfill: For all pipes, culverts and conduits, where Type B backfill is allowed, the Type B material shall be placed in layers not exceeding 8 inches (200 mm) compacted thickness. Compaction shall be with suitable mechanical equipment. With approval of the engineer, layer thickness may be increased to 12 inches (300 mm) with verification of satisfactory installation and performance.

(e) Placement and Compaction; Trenchless or Partial Trench Condition: All pipes, culverts, drains and conduits placed with any portion of the pipe above existing ground must also comply with Subsections (a),(b) (c) and (d) above for the portion of the pipe within a trench and that portion of the pipe not constructed in a trench. The width of initial and final backfill of that portion above existing ground and not within a trench will be constructed to such a width that the requirements for placement, compaction and density are met.

(f) Density Requirements: The in place density of Type A backfill materials and bedding materials, will not be measured or determined. Type A backfill, exclusive of RAP and flowable fill, shall be placed at or near optimum moisture content determined in accordance with DOTD TR 415 or 418. RAP materials shall be placed and compacted in a slightly moist condition.

The maximum dry density of initial or final Type B backfill under all paved areas which are to be under traffic will be determined in accordance with DOTD TR 415 or TR 418 and in-place density determined in accordance with DOTD TR 401. Initial and final Type B backfill under all paved areas, under traffic, shall be placed at or near optimum moisture content determined in accordance with DOTD TR 415 or TR 418. Each layer shall be compacted by approved methods prior to the placement of a subsequent layer. The engineer will approve the compaction method based upon validation that such method, including moisture control, will achieve at least 95 percent of maximum dry density as determined in accordance with DOTD TR 401. With approval of the engineer, density testing may be waived on subsequent layers with backfill installation in accordance with approved compaction methods and continued satisfactory performance.

Initial and final backfill in unpaved areas or paved areas such as shoulders or driveways, shall be placed evenly and compacted along the length of the culvert, pipe or drain from the top of the initial backfill to the top of the subgrade. Layered backfill shall be compacted at least to the density of the adjoining existing soils or the compaction required of the laterally adjoining layers of soil immediately outside the trench for embankment elevations. Initial and final backfill shall be placed and compacted at or near optimum moisture content determined in accordance with DOTD TR 415 or TR 418.

701.09 INSPECTION OF PIPES. After completion of embankment and prior to roadway surfacing, the engineer shall inspect pipes for proper alignment and integrity of joints. Any misaligned pipe or defective joints shall be corrected by the contractor at no direct pay.

(a) Plastic Pipe: Installed plastic pipe shall be tested to ensure that vertical deflections do not exceed 5.0 percent. Maximum allowable deflections shall be governed by the mandrel requirements stated herein.

Deflection tests shall be performed no sooner than 30 calendar days after installation and compaction of backfill. The pipe shall be cleaned and inspected for offsets and obstructions prior to testing.

For pipe 36 inches (900 mm) and less in diameter, a mandrel shall be pulled through the pipe by hand to ensure that maximum allowable deflections have not been exceeded. The mandrel shall be approved by the engineer prior to use. Use of an unapproved mandrel or a mandrel altered or modified after approval will invalidate the test. If the mandrel fails to pass, the pipe is overdeflected.

Unless otherwise permitted, overdeflected pipe shall be uncovered and, if not damaged, reinstalled. Damaged pipe shall not be reinstalled, but shall be removed and replaced with new pipe. Any pipe subjected to any method or process other than removal, which attempts, even successfully, to reduce or cure any overdeflection, shall be removed and replaced with new pipe.

The mandrel shall be a rigid, nonadjustable, odd-numbered legged (minimum 9 legs) mandrel having a length not less than its nominal diameter or 24 inches (600 mm), whichever is less. The minimum diameter at any point shall be 5.0 percent less than the base inside diameter of the pipe being tested. The mandrel shall be fabricated of steel, aluminum or other approved material fitted with pulling rings at each end. The nominal pipe size and outside diameter of the mandrel shall be stamped or engraved on some segment other than a runner. A suitable carrying case shall be furnished.

For pipe larger than 36 inches (900 mm) in diameter, deflection shall be determined by a method approved by the engineer. If a mandrel is selected, the minimum diameter, length, and other requirements shall conform to the above requirements.

Mandrel testing shall be conducted by the contractor in the presence of the engineer. Mandrel testing shall be at no direct pay.

(b) Metal Pipe: If the inside diameter of metal pipe or rise dimension of metal pipe arch deflects more than 5.0 percent from original dimensions, they shall be removed and reinstalled, unless they do not rebound or are damaged. Pipe or pipe arch which are damaged or do not rebound shall be removed and replaced at no direct pay. Measurement of deflection will be made by the engineer away from rerolled ends.

701.10 CLEANING PIPES.

(a) Existing Pipes: Pipes designated to be cleaned shall be cleaned of soil, debris and other materials to the invert of the pipe. Designated pipes shall be cleaned by approved methods that will not damage the pipes. Any damage caused by the contractor's operations shall be satisfactorily repaired at no direct pay.

Removed soil, debris and other materials shall be disposed of in accordance with Subsection 202.02 or as otherwise approved in writing.

(b) Contractor Installed Pipes: Prior to final acceptance, pipes shall be cleaned of all debris and soil to the invert of the pipe at no direct pay.

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Removed soil, debris and other materials shall be disposed of in accordance with Subsection 202.02 or as otherwise approved in writing.

701.11 STUBBING AND PLUGGING PIPES. When it is required that pipes be plugged, such plugs shall be constructed of Class R concrete complying with Section 901. Thickness of plug and method of construction shall be as directed.

When new pipes are to be stubbed into new or existing pipes or other structures, the connection shall be made with approved mortar complying with Subsection 702.02.

701.12 MEASUREMENT. Pipe, both new and relaid, will be measured in linear feet (lin m) as follows unless stated otherwise.

(a) Pipe not confined by fixed structures will be measured by the number of joints at the nominal length of each joint.

(b) Pipe confined by fixed structures will be measured along the pipe between the termini of pipe in structure walls.

(c) Pipe confined by a fixed structure on one end and unconfined at the other end will be measured along the pipe from the terminus of pipe in the structure wall to the unconfined end of pipe.

(d) Fabricating of pipe tees, elbows and other fittings will be measured per each fitting. The length of pipe in such fittings will be included in the pay length measurement of pipes of which they form a part.

(e) Excavation required for installation of pipes will not be measured for payment, except as otherwise specified in Subsection 203.14.

(f) Furnishing and placing backfill material below existing ground level for pipes will not be measured for payment. Backfill material needed to complete backfill above natural ground and around pipes that extend above natural ground will be measured and payment will be made under applicable earthwork items. When specified, flowable fill will be measured and paid for in accordance with Section 710.

(g) Plugging and stubbing of pipes will not be measured for payment.

(h) Cleaning existing pipes will be measured by the length of pipe cleaned and accepted.

(i) Concrete collars will be measured per each.

701.13 PAYMENT.

(a) Payment for pipe will be made at the contract unit price per linear foot (lin m) of the types and sizes specified.

When plastic pipe is specified on the plans or elected to be used by the contractor, payment will be made at the contract unit price per linear foot (lin m) of the types and sizes specified in accordance with the payment schedule of Table 701-1.

Table 701-1
Payment Schedule for Plastic Pipe

Percent Payment	Stage of Completeness
75	After placement and backfill has been completed
25	After the pipe has met vertical deflection requirements in accordance with Subsection 701.09(a)

(b) Payment for fabricating pipe tees, elbows and other fittings will be made at the contract unit price per each fitting.

(c) When unstable conditions are encountered, the additional excavation will not be measured for payment; however, the additional materials furnished and placed for the pipe foundation will be measured and paid for as follows:

(1) Granular Materials: Payment will be made under the embankment item. The net section volume of the materials will be multiplied by 3 to determine the pay volume. When the contract does not include a pay item for embankment, payment will be made in accordance with Subsection 104.02.

(2) Bedding Material: Measurement and payment will be made in accordance with Section 726. When the contract does not include a pay item for bedding material, payment will be made in accordance with Subsection 104.02.

(d) Payment for cleaning existing pipes will be made at the contract unit price per linear foot (lin m).

(e) Payment for concrete collars will be made at the contract unit price per each.

Payment will be made under:

Item No.	Pay Item	Pay Unit
701-01	Cross Drain Pipe (Size & Type)	Linear Foot (Lin m)
701-02	Cross Drain Pipe Arch (Size & Type)	Linear Foot (Lin m)
701-03	Storm Drain Pipe (Size & Type)	Linear Foot (Lin m)
701-04	Storm Drain Pipe Arch (Size & Type)	Linear Foot (Lin m)
701-05	Side Drain Pipe (Size)	Linear Foot (Lin m)
701-06	Side Drain Pipe Arch (Size)	Linear Foot (Lin m)
701-07	Yard Drain Pipe (Size)	Linear Foot (Lin m)
701-08	Relaying Pipe	Linear Foot (Lin m)
701-09	Fabricating Pipe Fittings	Each
701-10	Reinforced Concrete Pipe (Extension)	Linear Foot (Lin m)
701-11	Reinforced Concrete Pipe Arch (Extension)	Linear Foot (Lin m)
701-12	Corrugated Metal Pipe (Extension)	Linear Foot (Lin m)
701-13	Corrugated Metal Pipe Arch (Extension)	Linear Foot (Lin m)

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701-14	Cleaning Existing Pipes	Linear Foot (Lin m)
701-15	Concrete Collar	Each
701-16	Plastic Pipe (Extension)	Linear Foot (Lin m)

SECTION 704 – GUARD RAIL:

Subsection 704.03 – General Construction Requirements (01/05), Pages 368 and 369.

Add the following to Heading (d), Guard Rail End Treatments.

All end treatments shall bear a label indicating the manufacturer and exact product name of the end treatment along with its assigned NCHRP 350 test level. This label shall resist weathering and shall be permanently affixed to the railing in such a way as to be readily visible.

SECTION 706 – CONCRETE WALKS, DRIVES AND INCIDENTAL PAVING:

All Subsections within Section 706 (04/08), Pages 375 – 377.

Delete Section 706, Concrete Walks, Drives and Incidental Paving and substitute the following.

SECTION 706
CONCRETE WALKS, DRIVES AND INCIDENTAL PAVING

706.01 DESCRIPTION. This work consists of furnishing and constructing portland cement concrete walks, handicapped curb ramps, drives and incidental paving slabs in accordance with these specifications and in conformity with lines, grades and dimensions shown on the plans or established.

706.02 MATERIALS. Materials shall comply with the following Section or Subsections.

Portland Cement Concrete (Class M)	901
Joint Filler	1005.01(c)
Reinforcing Steel	1009.01
Curing Materials	1011.01

706.03 CONSTRUCTION REQUIREMENTS.

(a) Excavation: Excavation shall be made to required depth and width. The top of the subgrade shall be shaped and compacted to a firm, even surface conforming to the section shown on the plans. Unsuitable material shall be removed and disposed of in accordance with Subsection 202.02 and replaced with approved material at no direct pay.

(b) Forms: Forms shall be of wood or metal and shall extend the full depth of concrete. Forms shall be straight, clean and of sufficient strength to resist the pressure of concrete. Bracing of forms shall be such that forms remain in horizontal and vertical alignment until their removal.

Concrete may be placed by slip-form methods. Slip-formed concrete shall be placed with an approved machine designed to spread, vibrate, consolidate and finish concrete in one pass of the machine in such manner that minimum hand finishing is necessary. Sliding forms shall be

rigidly held together to prevent spreading of forms. After the passing of the side forms there shall be no noticeable slumping of concrete.

(c) Subgrade: The subgrade shall be thoroughly moistened immediately prior to placing concrete.

(d) Placing and Finishing: Concrete shall be placed on the subgrade, struck off to required thickness and tamped sufficiently to bring the mortar to the surface. The surface shall be finished with a wood float or steel trowel followed by brushing to a slightly rough finish. Joints and edges shall be rounded with an edging tool having a 1/4-inch (6 mm) radius.

(e) Joints:

(1) Expansion Joints: Expansion joints shall be filled with 1/2 inch (13 mm) thick preformed expansion joint filler. Expansion joints shall be installed at maximum 100-foot (30 m) intervals, and between intersecting paving and any fixed structure such as a building, bridge or curbing, and between intersecting paving and the handicapped curb ramps. Expansion joint material shall extend for the full width and depth of paving.

(2) Weakened Plane: Weakened planes shall be formed by a jointing tool or other acceptable means. Weakened planes shall extend into concrete for at least 1/4 of the depth and shall be approximately 1/8 inch (3 mm) wide.

a. Walks: Spacing of weakened planes for walks shall be equal to the width of walk.

b. Drives: A longitudinal weakened plane shall be formed along the centerline of drives more than 16 feet (5 m) wide, and transverse weakened planes shall be formed at not more than 16-foot (5 m) intervals.

c. Incidental Paving: Weakened planes for incidental paving shall be formed at intervals not exceeding 30 times the thickness of the concrete in length or width. Incidental paving poured adjacent to jointed concrete shall be jointed to match existing joints, with intermediate joints formed as necessary not to exceed the maximum joint spacing.

(3) Construction Joints: Construction joints shall be formed around manholes, utility poles, etc., extending into paving and 1/4 inch (6 mm) thick preformed expansion joint filler shall be installed in these joints.

(4) Tie-ins: Tie-ins of existing concrete shall be made by full depth sawing at no direct pay.

(f) Curing: Concrete shall be cured in accordance with Subsection 601.10.

(g) Detectable Warning Surface for Handicap Ramps and At-Grade Sidewalk Intersections: Sidewalks, when intersecting with roadways, shall be equipped with a detectable warning surface system consisting of raised truncated domes as a transition between the sidewalk and the street as required by the Americans with Disabilities Act, 28 CFR Part 36, ADA Standards for Accessible Design.

Detectable warnings (truncated domes) shall be installed on the ramp surface over the full width of the ramp throat for a distance of 24 inches (600 mm) in the direction of travel from the back of the curb. Detectable warnings (truncated domes) shall also be installed on at-grade sidewalks intersecting with roadways for a distance of 36 inches (900 mm) in the direction of travel from the end of the sidewalk. Truncated domes shall be laid out on a square grid in order to allow enough space for wheelchairs to roll between the domes.

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Light reflectance of the truncated domes and the underlying surface must meet the 70 percent contrast requirement of ADAAG.

706.04 MEASUREMENT. Quantities of concrete walks, drives and incidental paving slabs for payment will be the design quantities as specified on the plans and adjustments thereto. Design quantities will be adjusted if the engineer makes changes to adjust to field conditions, if design errors are proven or if design changes are made. Design areas are based on the horizontal dimensions shown on the plans. Excavation, backfill, reinforcing steel and joint materials will not be measured for payment.

Handicapped curb ramps, including the detectable surface warning system, will be measured per each.

Detectable surface warning systems for at-grade sidewalk intersection will not be measured for payment.

706.05 PAYMENT. Payment for concrete walks, drives and incidental paving will be made on a lot basis at the contract unit price per square yard (sq m), adjusted in accordance with the following provisions. Payment for each lot will be made in accordance with Table 901-6. Size, sampling, and testing of each concrete lot shall be in accordance with the Materials Sampling Manual.

Payment for handicapped curb ramps, including the detectable surface warning system, will be made by each and shall include, but not limited to, curb transitions, detectable warning system, gutter, landing and base.

Payment will be made under:

Item No.	Pay Item	Pay Unit
706-01	Concrete Walk (inch (mm) Thick)	Square Yard (Sq m)
706-02	Concrete Drive (inch (mm) Thick)	Square Yard (Sq m)
706-03	Incidental Concrete Paving (inch (mm) Thick)	Square Yard (Sq m)
706-04	Handicapped Curb Ramps	Each

SECTION 713 – TEMPORARY TRAFFIC CONTROL:

Subsection 713.06 – Pavement Markings (08/06), Pages 400 – 403.

Delete Table 713-1, Temporary Pavement Markings and substitute the following.

Table 713-1
Temporary Pavement Markings^{1,2}

		Two-lane Highways	Undivided Multilane Highways	Divided Multilane Highways
S H O R T T E R M	ADT<1500; or ADT>1500 and time<3 days	Lane lines 4-foot (1.2 m) tape on 40-foot (12 m) centers; with "Do Not Pass" and "Pass With Care" signs as required		
	ADT>1500; Time>3 days and<2 weeks	Lane lines 4-foot (1.2-m) tape on 40-foot (12-m) centers with no passing zone markings		
	All ADT's with time <2 weeks		Lane lines 4-foot (1.2m) tape on 40-foot (12 m) centers; double yellow centerline	Lane lines 4-foot (1.2 m) tape on 40-foot (12 m) centers
L O N G T E R M	All ADT's with time >2 weeks	Standard lane lines, no-passing zone markings, legends and symbols and when pavement width is 22 feet (6.7 m) or greater, edge lines	Standard lane lines, centerlines, edge lines, and legends and symbols	Standard lane lines, centerlines, edge lines, and legends and symbols.

¹No-passing zones shall be delineated as indicated whenever a project is open to traffic.

²On all Asphaltic Surface Treatments that are open to traffic and used as a final wearing course or as an interlayer, temporary pavement markings (tabs) on 20-foot (6 m) centers shall be used, in lieu of the 4-foot (1.2 m) tape, on 40-foot (12 m) centers.

SECTION 729 – TRAFFIC SIGNS AND DEVICES:

Subsection 729.02 – Materials (04/08), Pages 456 and 457.

Delete the contents of Heading (a), Sign and Marker Sheeting, and substitute the following.

(a) Sign and Marker Sheeting: Sheeting material for sign panels, delineators, barricades and other markers shall comply with Section 1015. All permanent signs shall meet the requirements of ASTM D 4956, Type X.

Subsection 729.04, Fabrication of Sign Panels and Markers (04/08), Pages 458 – 460.

Delete the third paragraph of Heading (c), Sheeting Application and substitute the following.

ASTM D 4956 Type X reflective sheeting shall be applied with an orientation determined by the engineer to obtain the optimum entrance angle performance. Fabricated vertical splices in ASTM D 4956 Type X reflective sheeting will be allowed only when the horizontal dimension of the sign face or attached shield is in excess of the maximum manufactured width of the sheeting. Fabricated vertical splices in ASTM D 4956 Type X reflective sheeting will also be allowed when the specified orientation will create excessive sheeting waste.

SECTION 804 – DRIVEN PILES:

Subsection 804.08 – Construction Requirements (04/07), Pages 548 – 554.

Delete the first sentence of Heading (a), Preboring and substitute the following.

Preboring by augering, wet-rotary drilling, or other methods used to facilitate pile driving will not be permitted unless specified in the plans or allowed by the engineer.

Delete the first sentence of Heading (b), Jetting and substitute the following.

Jetting will not be permitted unless allowed in the plans or allowed by the engineer.

SECTION 901 – PORTLAND CEMENT CONCRETE:

Subsection 901.06 – Quality Control of Concrete (08/06), Pages 726 – 731.

Add the following to the contents of Heading (b), Quality Control Tests.

The contractor shall be responsible for monitoring the components (cement, mineral and chemical admixtures, aggregates) in their mix to protect against any changes due to component variations. As component shipments arrive, the contractor shall verify slump, air content and set time by testing at ambient temperatures. The contractor shall make adjustments to the mix design to rectify any changes which would adversely affect constructability, concrete placement or the specifications. The contractor shall submit test results to the Department for review each day of paving. Testing to validate component consistency will be documented on the control logs. Conformance or variation in mix parameters (workability, set times, air content, etc.) shall be noted on the control logs. The contractor shall provide a copy of the proposed testing plan to the engineer for record. Acceptance of the plan does not relieve the contractor's responsibility for consistency.

Subsection 901.08 – Composition of Concrete (12/05), Pages 732 – 734.

Add the following to Heading (a).

The blended cement containing up to 50 percent of grade 100 or grade 120 ground granulated blast-furnace slag must be in compliance with Subsection 1001.04 for portland blast-furnace slag cement.

SECTION 1001 – HYDRAULIC CEMENT:

Subsection 1001.01 – Portland Cement (09/07). Page 749.

Delete the contents of this subsection and substitute the following.

1001.01 PORTLAND CEMENT. Portland cement shall be from an approved source listed in QPL 7 and shall comply with AASHTO M 85.

Alkali content calculated as sodium oxide equivalent shall not exceed 0.60 percent by weight for all types of cement.

SECTION 1003 – AGGREGATES:

Subsection 1003.02 – Aggregates for Portland Cement Concrete and Mortar (07/07).

Pages 763 – 766.

Delete the contents of Heading (c), Aggregates for Types B and D Pavements, and substitute the following.

(c) Aggregates for Types B and D Pavements: For the combined aggregates for the proposed portland cement concrete pavement mix, the percent retained based on the dry weight (mass) of the total aggregates shall meet the requirements of Table 1003-1A for the type of pavement specified in the plans. Additionally, the sum of the percents retained on any two adjacent sieves so designated in the table shall be at least 12 percent of the total combined aggregates. The maximum amounts by weight (mass) of deleterious materials for the total aggregate shall be the same as shown in Subsection 1003.02(b).

Table 1003-1A
Aggregates for Types B and D Pavements

U.S. Sieve	Metric Sieve	Percent Retained of Total Combined Aggregates	
		Pavement Type	
		Type B	Type D
2 1/2 inch	63 mm	0	0
2 inch	50 mm	0	0-20
1 1/2 inch	37.5 mm	0-20	0-20
1 inch	25.0 mm	0-20	5-20
3/4 inch	19.0 mm	5-20	5-20
1/2 inch	12.5 mm	5-20	5-20
3/8 inch	9.5 mm	5-20	5-20
No. 4	4.75 mm	5-20	5-20
No. 8	2.36 mm	5-20	5-20
No. 16	1.18 mm	5-20	5-20
No. 30	600 µm	5-20	5-20
No. 50	300 µm	0-20	0-20
No. 100	150 µm	0-20	0-20
No. 200	75 µm	0-5	0-5
Note: For the sieves in the shaded areas, the sum of any two adjacent sieves shall be a minimum of 12 percent of the total combined aggregates.			

Each type of aggregate to be used in the proposed mixture shall be sampled and tested individually. The percent of total combined aggregates retained shall be determined mathematically based on the proportions of the combined aggregate blend. All gradation calculations shall be based on percent of dry weight (mass).

SECTION 1005 – JOINT MATERIALS FOR PAVEMENTS AND STRUCTURES:

Subsection 1005.04 – Combination Joint Former/Sealer (11/05), Pages 782 and 783.

Delete Heading (a) and substitute the following.

(a) Description: This joint former/sealer is intended for use in simultaneously forming and sealing a weakened plane in portland cement concrete pavements.

The material shall consist of an elastomeric strip permanently bonded either mechanically or chemically at the top of each of two rigid plastic side frames and covered with a removable plastic top cap. Side frames shall be of such configuration that when the sealer is inserted into plastic concrete and vibrated, a permanent bond forms between side frames and concrete.

Delete Heading (b)(1) and substitute the following.

(1) Elastomer: The elastomer strip portion of the material shall be manufactured from vulcanized elastomeric compound using polymerized chloroprene or thermoplastic vulcanizate as the base polymer, and shall comply with the following requirements:

<u>Property</u>	<u>ASTM Test Method</u>	<u>Requirements</u>	
		<u>Polymerized Chloroprene</u>	<u>Thermoplastic Vulcanizate</u>
Tensile Strength, kPa, Min.	D 412	12,400	7,400
Elongation at Break, % Min.	D 412	200	400
Hardness, Shore A	D 2240	65 ± 10	65 ± 10
Properties after Aging, 70 h @ 100°C	D 573		
Tensile Strength, % Loss, Max.		20	20
Elongation, % loss, Max.		25	25
Hardness, pts. increase, Max.		10	10
Ozone Resistance, 20% strain or bentloop, 300 pphm in air, 70 h @ 40°C	D 1149	no cracks	no cracks
Oil Swell, IRM 903, 70 h @ 100°C, wt change, % Max.	D 471	45	75

Delete Headings (b)(2) and (b)(3) and substitute the following:

(2) Bond of Elastomer to Plastic: The force required to shear the elastomer from the plastic shall be a minimum of 5.0 pounds per linear inch (90 g/mm) of sealer when tested in accordance with DOTD TR 636.

(3) Bond of Plastic to Cement Mortar: This bond will be evaluated and shall meet the following requirements:

The force required to separate the cement mortar from the plastic shall be a minimum of 5.0 pounds per linear inch (90 g/mm) of sealer when tested in accordance with DOTD TR 636.

SECTION 1006 – CONCRETE AND PLASTIC PIPE:

Subsection 1006.09 – Plastic Yard Drain Pipe (06/07), Page 789.

Delete the contents of Subheading (a)(3), Ribbed Polyvinyl Chloride Pipe (RPVCP) and substitute the following.

Ribbed Polyvinyl Chloride Pipe (RPVCP): Ribbed Polyvinyl Chloride Pipe shall comply with ASTM F 794, Series 46 or ASTM F 949 (46 psi).

SECTION 1013 – METALS:

Subsection 1013.09 – Steel Piles (08/06) Page 822.

Delete the title and references to “Steel Piles” in this subsection and substitute “Steel H Piles”.

SECTION 1015 – SIGNS AND PAVEMENT MARKINGS:

Subsection 1015.04 – Sign Panels (05/07), Pages 832 and 833.

Delete the contents of Heading (a), Permanent Sign Panels and substitute the following.

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(a) Permanent Sign Panels: Flat panels shall be aluminum sheets or plates complying with ASTM B 209, Alloy 6061-T6 or Alloy 5052-H38. Extruded aluminum panels shall comply with ASTM B 221 (ASTM B 221M), Alloy 6063-T6 and after fabrication, have a flatness equal to or less than 0.031 inch per foot of length and 0.004 inch per inch of width.

Subsection 1015.05 - Reflective Sheeting (04/08), Pages 833 – 838.

Delete the contents of this subsection and substitute the following.

1015.05 REFLECTIVE SHEETING.

(a) Permanent and Temporary Standard Sheeting: Reflective sheeting shall be one of the following standard types as specified on the plans and complying with ASTM D 4956 except as modified herein. Permanent warning, regulatory, guide and supplemental guide sign sheeting shall meet the requirements of ASTM D 4956 Type X. Reflective sheeting for temporary signs and devices shall meet the requirements of ASTM D 4956 Type III except as noted in Subsection 1015.05(f). Reflective sheeting shall be an approved product listed in QPL 13.

Type III - A high-intensity retroreflective sheeting that is typically encapsulated glass-bead retroreflective material.

Type VI - An elastomeric high-intensity retroreflective sheeting without adhesive. This sheeting is typically a vinyl microprismatic retroreflective material.

Type X - A super high-intensity retroreflective sheeting having highest retroreflectivity characteristics at medium distances. This sheeting is typically an unmetalized microprismatic retroreflective element material.

(b) Fluorescent Pink Retroreflective Sheeting: Signs for temporary control of traffic through incident management areas shall be Type VI fluorescent pink retroreflective sheeting and shall comply with the MUTCD. Temporary traffic control signs for incident management shall be placed to notify motorists of upcoming incidents on the roadway, and shall be removed from public view once the incident has been managed. Physical properties shall comply with ASTM D 4956. Photometric properties shall be as follows.

(1) Retroreflectivity: Minimum Coefficients of Retroreflection shall be as specified in Table 1015-1.

Table 1015-1
Coefficients of Retroreflection for Fluorescent Pink Sheeting¹

Observation Angle, degrees	Entrance Angle, degrees	Fluorescent Pink
0.2	-4	100
0.2	+30	40
0.5	-4	40
0.5	+30	15

¹Minimum Coefficient of Retroreflection (R_A) ($\text{cd lx}^{-1}\text{m}^{-2}$)

(2) Color and Daytime Luminance: Color Chromaticity Coordinates and Daytime Luminance Factors shall be as specified in Table 1015-2.

Table 1015-2
Fluorescent Pink Color Specifications Limits (Daytime)

Chromaticity Coordinates (corner points) ¹								Luminance Factor, min.
1		2		3		4		Y%
x	y	x	y	x	y	x	y	25
0.450	0.270	0.590	0.350	0.644	0.290	0.536	0.230	

¹The four pairs of chromaticity coordinates measured with CIE 2° Standard Observer and 45/0 (0/45) geometry and CIE D65 Standard Illuminant.

(c) Adhesive Classes: The adhesive required for retroreflective sheeting shall be Class 1 (pressure sensitive) as specified in ASTM D 4956.

(d) Accelerated Weathering: Reflective sheeting, when processed, applied and cleaned in accordance with the manufacturer's recommendations shall perform in accordance with the accelerated weathering standards in Table 1015-3.

Table 1015-3
Accelerated Weathering Standards¹

Type	Retroreflectivity ²				Colorfastness ³	
	Orange/ Fluorescent Orange		All colors, except orange/Fluorescent Orange		Orange/ Fluorescent Orange	All colors, except orange/Fluorescent Orange
III	1 year	80 ⁴	3 years	80 ⁴	1 year	3 years
III (for drums)	1 year	80 ⁴	1 year	80 ⁴	1 year	1 year
VI	1/2 year	50 ⁵	1/2 year	50 ⁵	1/2 year	1/2 year
X	1 year	80 ⁶	3 years	80 ⁶	1 year	3 years

¹At an angle of 45° from the horizontal and facing south in accordance with ASTM G 7 at an approved test facility in Louisiana or South Florida.

²Percent retained retroreflectivity of referenced table after the outdoor test exposure time specified.

³Colors shall conform to the color specification limits of ASTM D 4956 after the outdoor test exposure time specified.

⁴ASTM D 4956, Table 8.

⁵ASTM D 4956, Table 13.

⁶ASTM D 4956, Table 4.

(e) Expected Sign Life Data and Performance: The sheeting manufacturer shall supply expected retroreflectivity service life curves for each of the following sign sheeting colors: white, green, blue, brown, red, and yellow. The service life curves shall be plots of the 95 percent expected life plotted on an x-y graph with life years on the x-axis and retroreflectivity on the y-axis. The expected life shall account for worst case installations, equivalent to an installation in South Louisiana with the sign facing to the South. The sheeting manufacturer shall also supply a table of expected life values taken from the service life curves for Revision Number 2 to the 2003 Edition of the MUTCD minimum reflectivity requirements published in the Federal Register on December 21, 2007. Reflective sheeting for signs, when processed, applied and cleaned in accordance with the manufacturer's recommendations shall perform outdoors in accordance with the performance standards in Table 1015-4.

Table 1015-4
 Reflective Sheeting Performance Standards

Type	Retroreflectivity ¹ -- Durability ²				Colorfastness ³
	Orange/ Fluorescent Orange		All colors, except orange/Fluorescent Orange		
III	3 years	80 ⁴	10 years	80 ⁴	3 years
X	3 years	80 ⁵	7years	80 ⁵	3 years

¹Percent retained retroreflectivity of referenced table after installation and the field exposure time specified.

²All sheeting shall maintain its structural integrity, adhesion and functionality after installation and the field exposure time specified.

³All colors shall conform to the color specification limits of ASTM D 4956 after installation and the field exposure time specified.

⁴ASTM D4956, Table 8.

⁵ASTM D 4956, Table 4.

(f) Temporary Signs, Barricades, Channelizing Devices, Drums and Cones: Reflective sheeting for temporary signs, barricades and channelizing devices, shall meet the requirements of ASTM D 4956, Type III except that temporary warning construction signs used on the mainline of freeways and expressways shall be fluorescent orange and meet the requirements of ASTM D 4956, Type X.

Reflective sheeting for vertical panels shall meet the requirements of ASTM D 4956, Type III.

Reflective sheeting for drums shall be a minimum of 6 inches (150 mm) wide and shall meet the requirements of ASTM D 4956, Type III, and the Supplementary Requirement S2 for Reboundable Sheeting as specified in ASTM D 4956. Reflective sheeting for traffic cone collars shall meet the requirements of ASTM D 4956, Type III or Type VI.

(g) Sheeting Guaranty. The contractor shall provide the Department with a guaranty from the sheeting manufacturer stating that if the retroreflective sheeting fails to comply with the performance requirements of this subsection, the sheeting manufacturer shall do the following:

Table 1015-5
Manufacturer's Guaranty-Reflective Sheeting

Type	Manufacturer shall restore the sign face in its field location to its original effectiveness at no cost to the Department if failure occurs during the time period ¹ as specified below		Manufacturer shall replace the sheeting required to restore the sign face to its original effectiveness at no cost to the Department if failure occurs during the time period ¹ as specified below
	Orange/Fluorescent Orange	All colors, except orange/Fluorescent Orange	All colors, except orange/Fluorescent Orange
III	<3 years	<7 years	7-10 years
X	<3 years	<5 years	5-7 years

¹ From the date of sign installation.

Replacement sheeting for sign faces, material, and labor shall carry the unexpired guaranty of the sheeting for which it replaces.

The sign fabricator shall be responsible for dating all signs with the month and year of fabrication at the time of sign fabrication. This date shall constitute the start of the guaranty obligation period.

Subsection 1015.11 - Preformed Plastic Pavement Marking Tape (06/07), Pages 842 – 844.

Delete the contents of this subsection and substitute the following.

1015.11 PREFORMED PLASTIC PAVEMENT MARKING TAPE.

(a) General: Preformed plastic pavement marking tape shall be approved products listed on QPL 64 and shall comply with ASTM D4505 Retroreflectivity Level I or Level II, or DOTD Intersection Grade (as specified below), except as modified herein. The marking tape shall be Class 2 or 3. The type and color shall be in accordance with the plans and the MUTCD.

(b) Thickness: All preformed plastic pavement marking tape shall have a minimum overall thickness of 0.060 inches (1.5 mm) when tested without the adhesive.

(c) Friction Resistance: The surface of the Retroreflectivity Level II preformed plastic pavement marking tape shall provide a minimum frictional resistance value of 35 British Polish Number (BPN) when tested according to ASTM E303. The surface of the Retroreflectivity Level I and DOTD Intersection Grade preformed plastic pavement marking tape shall provide a minimum frictional resistance value of 45 BPN when tested according to ASTM E303. Values for the Retroreflectivity Level I material with a raised surface pattern as defined in ASTM D4505 are calculated by averaging values taken at downweb and at a 45 degrees angle from downweb.

(d) **Retroreflective Requirements:** The preformed plastic pavement marking tape shall have the minimum initial specific luminance values shown in Table 1015-7 when measured in accordance with ASTM D 4061.

Table 1015-7
Specific Luminance of Preformed Plastic Tape

Type	Observation Angle, degrees	Entrance Angle, degrees	Specific Luminance (mcd/sq m/lx)	
			White	Yellow
Retroreflectivity Level I	1.05	88.76	500	300
DOTD Intersection Grade	1.05	88.76	375	250
Retroreflectivity Level II	1.05	88.76	250	175

(e) **Durability Requirements:** The DOTD Intersection Grade preformed plastic pavement marking tape shall show no appreciable fading, lifting or shrinkage for a least 12 months after placement when placed in accordance with the manufacturer's recommended procedures on pavement surfaces having a daily traffic count not to exceed 15,000 ADT per lane.

The Retroreflectivity Level I preformed plastic pavement marking tape shall show no appreciable fading, lifting or shrinkage for a least 4 years after placement for longitudinal lines and at least 2 years after placement for symbols and legends.

The Retroreflectivity Level I preformed plastic pavement marking tape shall also retain the following reflectance values for the time period detailed in Table 1015-8.

Table 1015-8
Retained Specific Luminance for Retroreflectivity Level I
Preformed Plastic Pavement Marking Tape

<u>Time</u>	<u>Observation Angle, degrees</u>	<u>Entrance Angle, degrees</u>	Specific Luminance (mcd/sq m/lx)	
			<u>White</u>	<u>Yellow</u>
1 year	1.05	88.76	400	240
4 years (2 years for symbols and legend)	1.05	88.76	100	100

(f) **Plastic Pavement Marking Tape Guaranty (DOTD Intersection Grade and Retroreflectivity Level I):** If the plastic pavement marking tape fails to comply with the performance and durability requirements of this subsection within 12 months for DOTD Intersection Grade and 4 years for Retroreflectivity Level I, the manufacturer shall replace the plastic pavement marking material at no cost to the Department.

SECTION 1020 – TRAFFIC SIGNALS:

Subsection 1020.01 – Traffic Signal Heads (06/07), Pages 873 – 884.

Delete the contents of Heading (a), General Requirements and substitute the following.

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(a) General Requirements: Traffic signal sections, beacon sections and pedestrian signal sections shall be of the adjustable type. Materials and construction of each section shall be the same.

Signals shall be constructed for either 8 or 12-inch (200 mm or 300 mm) lens in accordance with the plans. Signal sections shall have three to five sections per face and beacon sections have only one section per face. Signal sections and associated brackets shall be finished inside and out with two coats of high grade dark olive green enamel, color number 14056 according to Federal Standard No. 595b with each coat independently baked. Visors shall be coated green on the outside and black on the inside. Edges shall be deburred and smooth with no sharp edges.

Subsection 1020.04 – Poles for Traffic Signal Systems (06/07), Pages 890 – 894.

Delete the sixth paragraph of Heading (a), Pedestal Support Signal Poles, and substitute the following.

Pedestals shall be finished with at least one coat of rustproofing primer, applied to a clean surface and one coat of dark olive green enamel, color number 14056 according to Federal Standard No. 595b.

**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS**

FEMALE AND MINORITY PARTICIPATION IN CONSTRUCTION

The following notice shall be included in, and shall be a part of, all solicitations for offers and bids on all federal and federally assisted construction contracts or subcontracts in excess of \$10,000 to be performed in geographical areas designated by the director of OFCCP. Execution of the contract by the successful bidder and any subsequent subcontracts will be considered the contractor's and subcontractor's commitment to the EEO provisions contained in this notice.

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY
(EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
2. The goals for minority and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

AREA	PARISH OR COUNTY	GOAL (%)
FEMALE PARTICIPATION		
-	All Covered Areas	6.9
MINORITY PARTICIPATION (UNDER NEW ORLEANS PLAN)		
-	* See Note Below	20 to 23
MINORITY PARTICIPATION (NOT UNDER NEW ORLEANS PLAN)		
1	Jefferson LA, Orleans LA, St. Bernard LA, St. Tammany LA	31.0
2	Assumption LA, Lafourche LA, Plaquemines LA, St. Charles LA, St. James LA, St. John the Baptist LA, Tangipahoa LA, Terrebonne LA, Washington LA, Forrest MS, Lamar MS, Marion MS, Pearl River MS, Perry MS, Pike MS, Walthall MS	27.7
3	Ascension LA, East Baton Rouge LA, Livingston LA, West Baton Rouge, LA	26.1
4	Concordia LA, East Feliciana LA, Iberville, LA, Pointe Coupee LA, St. Helena LA, West Feliciana LA, Adams MS, Amite MS, Wilkinson, MS	30.4
5	Lafayette LA	20.6
6	Acadia LA, Evangeline LA, Iberia LA, St. Landry LA, St. Martin LA, St. Mary LA, Vermillion LA	24.1
7	Calcasieu LA	19.3
8	Allen LA, Beauregard LA, Cameron LA, Jefferson Davis LA, Vernon LA	17.8
9	Grant LA, Rapides LA	25.7
10	Avoyelles LA, Bienville LA, Bossier LA, Caddo LA, Claiborne LA, DeSoto LA, Natchitoches LA, Red River LA, Sabine LA, Webster LA, Winn LA	29.3
11	Ouachita LA	22.8
12	Caldwell LA, Catahoula LA, East Carroll LA, Franklin LA, Jackson LA, LaSalle LA, Lincoln LA, Madison LA, Morehouse LA, Richland LA, Tensas LA, Union LA, West Carroll LA,	27.9

*These goals apply only to those contractors signatory to the New Orleans Plan and only with respect to those trades which have unions participating in said Plan. The New Orleans Plan Covered Area is as follows: The parishes of Orleans, Jefferson, St. Bernard, St. Tammany, St. Charles, St. John the Baptist, Plaquemines, Washington, Terrebonne, Tangipahoa (that area east of the Illinois Central Railroad), Livingston (that area southeast of the line from a point off the Livingston and Tangipahoa Parish line adjacent from New Orleans and Baton Rouge), St. James (that area southeast of a line drawn from the Town of Gramercy to the point of intersection of St. James, Lafourche and Assumption Parishes), and Lafourche.

These goals are applicable to all the contractor's construction work (whether or not it is federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor is also subject to the goals for both its federally involved and non-federally involved construction.

The contractor's compliance with the Executive Order and the regulations in 41 CFR 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor, or from project to project, for the purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Regional Administrator of the Office of Federal Contract Compliance Programs (555 Griffin Square Building, Dallas, TX 75202) within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract. The notification shall list the name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and geographical area in which the contract is to be performed.

4. As used in this Notice and in the contract, the "covered area" is that area shown in the foregoing table in which the project is located.

The following Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246) shall be included in, and shall be a part of, all solicitations for offers and bids on all federal and federally assisted construction contracts or subcontracts in excess of \$10,000. Execution of the contract by the successful bidder and any

subsequent subcontracts will be considered the contractor's and subcontractor's commitment to the EEO provisions contained in these Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246).

**STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
CONSTRUCTION CONTRACT SPECIFICATIONS
(EXECUTIVE ORDER 11246)**

1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941.
 - d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. If the contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, he shall include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation.
3. If the contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each contractor or subcontractor participating in an approved Plan is required to comply with his obligations under the EEO clause, and to make good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other contractor or subcontractors toward a goal in an

approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals.

4. The contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any OFCCP office or from federal procurement contracting officers. The contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the contractor has a collective bargaining agreement, to refer either minorities or women, shall excuse the contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the contractor during the training period, and the contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U. S. Department of Labor.

7. The contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the contractor's compliance with these specifications will be based on his effort to achieve maximum results from its actions. The contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

- a. Ensure and maintain a working environment free of harassment, intimidation and coercion at all sites, and in all facilities at which the contractor's employees are assigned to work. The contractor, where possible, will assign 2 or more women to each construction project. The contractor shall ensure that all foremen, superintendents and other on-site supervisory personnel are aware of and carry out the contractor's obligation to maintain such a working environment with specific attention to minority or female individuals working at such sites or in such facilities.
- b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to

- community organizations when the contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the contractor by the union or, if referred, not employed by the contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the contractor has taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the contractor has a collective bargaining agreement has not referred to the contractor a minority person or woman set by the contractor, or when the contractor has other information that the union referral process has impeded the contractor's efforts to meet its obligations.
 - e. Develop on-the-job training opportunities and/or participate in training programs for the area which include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the contractor's employment needs, especially those programs funded or approved by the Department of Labor. The contractor shall provide notice of these programs to the sources compiled under 7b above.
 - f. Disseminate the contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the contractor in meeting his EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
 - g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as superintendent, general foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
 - h. Disseminate the contractor's EEO policy externally by including it in ny advertising in the news media, including minority and female news media, and providing written notification to and discussing the contractor's EEO policy with other contractors and subcontractors with whom the contractor does or anticipates doing business.
 - i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the contractor's recruitment area and employment needs. Not later than 1 month prior to the date for the acceptance of

applications for apprenticeship or other training by any recruitment source, the contractor shall send written notification to organizations such as the above describing the openings, screening procedures and tests to be used in the selection process.

- j. Encourage present minority and female employees to recruit other minority persons and women, and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a contractor's workforce.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR 60-3.
- l. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling its obligations under 7a through 7p of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the contractor's minority and female workforce participation, makes a good faith effort to meet his goals and timetables and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the contractor. The obligation to comply, however, is the contractor's and failure of such a group to fulfill an obligation shall not be a defense for the contractor's noncompliance.

9. A goal for minorities and a separate goal for women have been established. The contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the contractor may be in violation of the Executive Order if a group is employed

in a substantially disparate manner (for example, even though the contractor has achieved its goals for women generally, the contractor may be in violation of the Executive Order if a minority group of women is underutilized).

10. The contractor shall not use the goals or affirmative action standards to discriminate against any person because of race, color, religion, sex or national origin.

11. The contractor shall not enter into a subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The contractor, in fulfilling his obligations under these specifications, shall implement specific affirmative actions steps, at least as extensive as the standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the contractor fails to comply with the requirements of the Executive Order, the implementing regulations or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors will not be required to maintain separate records.

15. Nothing herein shall be construed as a limitation on the application of other laws which establish different standards of compliance or on the application of requirements for hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

16. In addition to the reporting requirements set forth elsewhere in this contract, the contractor and subcontractors holding subcontracts (not including material suppliers) in excess of \$10,000

shall submit for every month of July during which work is performed, employment data as contained under Form FHWA-1391 in accordance with instructions included thereon.

**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS**

SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES

1. General

a. Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal employment opportunity as required by Executive Orders 11246 and 11375 are set forth in Required Contract Provisions (Form FHWA-1273) and these Supplemental Specifications which are imposed pursuant to Section 140 of Title 23, U.S.C., as established by Section 22 of the Federal Aid Highway Act of 1968. The requirements set forth herein shall constitute the specific affirmative action requirements for project activities under this contract and supplement the EEO requirements set forth in the Required Contract Provisions.

b. The contractor shall work with the Department and the Federal Government in carrying out EEO obligations and in their review of his activities under the contract.

c. The contractor and all his subcontractors holding subcontracts not including material suppliers, of \$10,000 or more, shall comply with the following minimum specific requirement activities of EEO. The EEO requirements of Executive Order 11246, as set forth in the Federal-Aid Policy Guide 23 CFR 230A, are applicable to material suppliers as well as contractors and subcontractors. The contractor shall include these requirements in every subcontract of \$10,000 or more with such modification of language as necessary to make them binding on the subcontractor.

2. EEO Policy

The contractor shall accept as his operating policy the following statement which is designed to further the provision of EEO to all persons without regard to their race, color, religion, sex or national origin, and to promote the full realization of EEO through a positive continuing program:

It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color or national origin. Such action shall include employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship and on-the-job training.

3. EEO Officer

The contractor shall designate and make known to the Department an EEO Officer who shall have the responsibility for and must be capable of effectively administering and promoting an active contractor EEO program and who must be assigned adequate authority and responsibility to do so.

4. Dissemination of Policy

a. All members of the contractor's staff who are authorized to hire, supervise, promote and discharge employees, or who recommend such action, or who are substantially involved in such action, shall be made fully cognizant of and shall implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions shall be taken as a minimum:

(1) Periodic meetings of supervisory and personnel office employees shall be conducted before the start of work and then at least once every 6 months, at which time the contractor's EEO policy and its implementation shall be reviewed and explained. The meetings shall be conducted by the EEO Officer or other knowledgeable company official.

(2) All new supervisory or personnel office employees shall be given a thorough indoctrination by the EEO Officer or other knowledgeable company official covering all major aspects of the contractor's EEO obligations within 30 days after their reporting for duty with the contractor. *

(3) All personnel who are engaged in direct recruitment for the project shall be instructed by the EEO Officer or appropriate company official in the contractor's procedures for locating and hiring minority group employees.

b. To make the contractor's EEO policy known to all employees, prospective employees and potential sources of employees, i.e., schools, employment agencies, labor unions (where appropriate), college placement officers, etc., the contractor shall take the following actions:

(1) Notices and posters setting forth the contractor's EEO policy shall be placed in areas readily accessible to employees, applicants for employment and potential employees.

(2) The contractor's EEO policy and the procedures to implement such policy shall be brought to the attention of employees by means of meetings, employee handbooks or other appropriate means.

5. Recruitment

a. When advertising for employees, the contractor shall include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements shall be published in newspapers or other publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

b. The contractor shall, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants, including, but not limited to, State employment agencies, schools, colleges and minority group organizations. To meet this requirement, the contractor shall, through his EEO Officer, identify sources of potential minority group employees and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

If the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with equal employment opportunity contract provisions. (The U.S. Department of Labor has held that where implementation of such agreements has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor shall encourage his present employees to refer minority group applicants for employment by posting appropriate notices or bulletins in areas accessible to all such employees. In addition, information and procedures with regard to referring minority group applicants shall be discussed with employees.

6. Personnel Actions

Wages, working conditions and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff and termination, shall be taken without regard to race, color, religion, sex or national origin. The following procedures shall be followed.

a. The contractor shall conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor shall periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor shall periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor shall promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor shall promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, shall attempt to resolve such complaints, and shall take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor shall inform every complainant of all of his avenues of appeal.

7. Training and Promotion

a. The contractor shall assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship and job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. If the Supplemental Specifications for Job Training are provided under this contract, this subparagraph will be superseded as indicated in Attachment 2.

c. The contractor shall advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor shall periodically review the training and promotion potential of minority group and women employees and shall encourage eligible employees to apply for such training and promotion.

8. Unions

If the contractor relies in whole or in part upon unions as a source of employees, the contractor shall use his best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent shall include the procedures set forth below:

a. The contractor shall use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor shall use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex or national origin.

c. The contractor shall obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the Department and shall set forth what efforts have been made to obtain such information.

d. If the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor shall, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex or national origin, making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The U.S. Department of Labor has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) If the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these specifications, such contractor shall immediately notify the Department.

9. Subcontracting

a. The contractor shall use his best efforts to solicit bids from and utilize minority group subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of minority-owned construction firms from the Department.

b. The contractor shall use his best efforts to ensure subcontractor compliance with their EEO obligations.

10. Records and Reports

a. The contractor shall keep such records as necessary to determine compliance with the contractor's EEO obligations. The records kept by the contractor shall indicate:

(1) the number of minority and nonminority group members and women employed in each work classification on the project,

(2) the progress and efforts being made in cooperation with unions to increase employment opportunities for minorities and women (applicable only to contractors who rely in whole or in part on unions as a source of their work force),

(3) the progress and efforts being made in locating, hiring, training, qualifying and upgrading minority and female employees, and

(4) the progress and efforts being made in securing the services of minority group subcontractors with meaningful minority and female representation among their employees.

b. All such records must be retained for a period of 3 years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the Department and the Federal Highway Administration.

c. The contractor shall submit an annual report to the Department each July for the duration of the project, indicating the number of minority, women and nonminority group employees currently engaged in each work classification required by the contract work. This information shall be reported on Form PR-1391. If job training is required, the contractor shall furnish Form DOTD 03-37-0014.

**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS
JOB TRAINING**

These supplemental specifications are in implementation of 23 USC 140(a). Training under this contract shall be optional to the successful bidder, provided the item for which training is requested is less than 70 percent complete. If the contractor elects to provide training under the contract as established in these specifications, he may submit a written request to the project engineer with a copy to the Construction Section. A plan change will be prepared to incorporate a pay item using the trainee hours stated in the Special Provisions elsewhere herein. Training will only be reimbursed after the approval of this plan change.

Training under these supplemental specifications will only be reimbursed in those trades identified by the Department as critical. A statewide critical trade is defined as a job category with 30 or more employees where underrepresentation of minorities and women exists in relation to their availability in the civilian labor force. Training shall be conducted in the critical trades listed in Table 1.

It is intended that training under these supplemental specifications be in crafts directly related to highway construction. Therefore, training in classifications such as clerk-typist, secretary, bookkeeper, fireman, office engineer, estimator, timekeeper, or flagger will not be approved for participation under these supplemental specifications.

No employee shall be employed as a trainee in any classification which he/she has successfully completed a training course leading to journeyman status or in which he/she has been employed as a journeyman. The contractor shall satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records shall document the findings in each case.

The contractor will be reimbursed \$2.00 per hour of training provided to minorities and women in accordance with an approved training program. Reimbursement will be made for training minorities and women in excess of the number specified herein. This reimbursement will be made even though the contractor receives additional training program funds from other sources, provided such other sources do not specifically prohibit the contractor from receiving other reimbursement. The contractor will be reimbursed for the number of trainee hours actually trained on the project in accordance with these supplemental specifications.

TABLE 1
STATEWIDE CRITICAL TRADES

MINORITIES	WOMEN
FOREMAN	FOREMAN
EQUIPMENT OPERATORS	EQUIPMENT OPERATORS
MECHANICS	MECHANICS
CARPENTERS	TRUCK DRIVERS
---	IRONWORKERS
---	CARPENTERS
---	CEMENT MASONS
---	PAINTERS
---	SEMI-SKILLED LABORERS

The contractor shall submit to the Department for approval, the training program to be used, the number of trainees to be trained in each selected job classification, and the approximate time training will begin. Only classifications contained in the critical trades included in Table 1 shall be used by the contractor. The contractor will be credited for each trainee employed on the work who is currently enrolled or becomes enrolled in an approved training program and will be reimbursed for such trainees as provided in these supplemental specifications.

The minimum length and type of training for each classification will be established in the training program selected by the contractor approved by the Department, Federal Highway Administration (FHWA), and/or Office of Federal Contract Compliance Programs (OFCCP). The Department, FHWA, and/or OFCCP will approve a program if it is reasonably calculated to meet the equal employment opportunity obligations of the contractor and to qualify the average trainee for journeyman status in the classification concerned by the end of the training period. Apprenticeship programs registered with the U. S. Department of Labor, Bureau of Apprenticeship and Training or with a state apprenticeship agency recognized by the Bureau and training programs approved but not necessarily sponsored by the U. S. Department of Labor, Manpower Administration, Bureau of Apprenticeship and Training will also be considered acceptable if it is being administered in a manner consistent with the equal employment obligations of federal-aid highway construction contracts.

It is normally expected that a trainee will begin training on the project as soon as feasible after start of work utilizing the skill involved and remain on the project as long as training opportunities exist in his/her work classification or until he/she has completed the training program.

Enrollment of minorities and women in excess of the required number will be permitted, with approval to allow the contractor to maintain the required continuous effort to complete the training of individual trainees.

Trainees will be paid at least 60 percent of the appropriate minimum journeyman's rate specified in the contract for the first half of the training period, 75 percent for the third quarter of the training period, and 90 percent of the last quarter of the training period, unless apprentices or trainees in an approved existing program are enrolled as trainees on this project. In that case, the appropriate rates approved by the Departments of Labor or Transportation in connection with the existing program shall apply to all trainees being trained for the same classification who are covered by these supplemental specifications.

The contractor, prior to the start of training, shall provide written notice to each person to be trained under these supplemental specifications of that person's designation as a trainee, the training program and classification under which training will be provided, the length of the training program, and the hourly wage rate to be paid to the trainee.

The Department shall furnish each trainee an identification card identifying the trainee by name, social security number, and training program classification. Upon graduation, the contractor shall furnish the trainee a certification showing the type and length of training satisfactorily completed along with a permanent photo identification card designating the bearer as a graduate journey person of the appropriate training program.

The contractor shall submit an initial enrollment report for each employee on the project who is enrolled as a trainee in an approved training program or apprenticeship program. The reports shall be submitted to the Construction Section within the first payroll period in which each trainee or apprentice is assigned to the project. The Initial Report of Trainee Employed on Federal Aid Project Form, DOTD 03-40-5018, will be furnished by the Construction Section.

In order to collect the \$2.00 per hour reimbursement for training minorities and women, the contractor shall submit two copies of Form DOTD-03-37-0014, Request for Reimbursement for Training, to the project engineer each month that training is conducted on the project. Instructions for furnishing this information and copies of these forms may be obtained from the Department's Construction Section.

At anytime during the life of the project, provided that the item for which training is requested is less than 70 percent complete, a subcontractor may elect to train. The contractor should make

known on Form OMF-1A, Request to Sublet, which is submitted to the Department's Contracts Management Section, the specific program the subcontractor intends to utilize. If the subcontractor does not utilize a previously approved training program, he is directed to develop and submit a training program to the Department for approval by DOTD and FHWA.

**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT**

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

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ATTACHMENTS

A. Employment Preference for Appalachian Contracts (included in Appalachian contracts only)

I. GENERAL

1. These contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

Section I, paragraph 2;
Section IV, paragraphs 1, 2, 3, 4, and 7;
Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.

6. **Selection of Labor:** During the performance of this contract, the contractor shall not:

a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

1. **Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 *et seq.*) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b. The contractor will accept as his operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job training."

2. **EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. **Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will

implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the SHA and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.

8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any

account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional

classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State

apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee

program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under an approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. Apprentices and Trainees (Programs of the U.S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than

one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph

3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices, trainees, and helpers described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such laborer or mechanic (including each apprentice, trainee, and helper) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;

(3) that each laborer or mechanic has been paid not less than the applicable wage rate and fringe benefits or cash equivalent for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all

may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:

a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.

b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.

c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635).

a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and

similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

Notice to all Personnel engaged on Federal-Aid Highway Projects

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more than \$10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 *et seq.*, as amended by Pub.L. 92-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 *et seq.*, as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions: (Applicable to all Federal-aid contracts - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered

transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Covered Transactions: (Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

**Certification Regarding Debarment, Suspension,
Ineligibility and Voluntary Exclusion--Lower Tier
Covered Transactions:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

**XII. CERTIFICATION REGARDING USE OF
CONTRACT FUNDS FOR LOBBYING**

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 - 49 CFR 20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any

Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

REQUIRED CONTRACT PROVISIONS FOR
DBE PARTICIPATION IN FEDERAL AID CONSTRUCTION CONTRACTS
(DBE GOAL PROJECT)

A. AUTHORITY AND DIRECTIVE: The Code of Federal Regulations, Title 49, Part 26 (49 CFR Part 26) as amended and the Louisiana Department of Transportation and Development's (DOTD) Disadvantaged Business Enterprise (DBE) Program are hereby made a part of and incorporated by this reference into this contract. Copies of these documents are available, upon request, from DOTD Compliance Programs Office, P. O. Box 94245, Baton Rouge, LA 70804-9245.

B. POLICY: It is the policy of the DOTD that it shall not discriminate on the basis of race, color, national origin, or sex in the award of any United States Department of Transportation (US DOT) financially assisted contracts or in the administration of its DBE program or the requirements of 49 CFR Part 26. The DOTD shall take all necessary and reasonable steps under 49 CFR Part 26 to ensure nondiscrimination in the award and administration of US DOT assisted contracts. The DBE program, as required by 49 CFR Part 26 and as approved by US DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this agreement. Upon notification of failure to carry out the approved DBE program, the US DOT may impose sanctions as provided for under 49 CFR Part 26 and may in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C.3801 et seq.).

C. DBE OBLIGATION: The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of US DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the DOTD deems appropriate.

The preceding policy and DBE obligation shall apply to this contract and shall be included in the requirements of any subcontract. Failure to carry out the requirements set forth therein shall constitute a breach of contract and, after notification by DOTD, may result in termination of the contract, a deduction from the contract funds due or to become due the contractor or other such remedy as DOTD deems appropriate. The contractor is encouraged to use the services offered by banks in the community which are owned and controlled by minorities or women when feasible and beneficial. The term DBE is inclusive of women business enterprises (WBE) and all obligations applicable to DBE shall apply to firms certified and listed as WBE.

D. FAILURE TO COMPLY WITH DBE REQUIREMENTS: All contractors and subcontractors are hereby advised that failure to carry out the requirements set forth above shall constitute a breach of contract and, after notification by DOTD may result in rejection of the bid; termination of the contract; a deduction from the contract funds due or to become due the contractor; or other such remedy as DOTD deems appropriate. Failure to comply with the DBE requirements shall include but not be limited to failure to meet the established goal and/or failure to submit documentation of good faith efforts; failure to exert a reasonable good faith effort (as determined by DOTD) to meet established goals; and failure to realize the DBE participation set forth on approved Form CS-6AAA and attachments. Failure to submit Form CS-6AAA and attachments and/or reasonable good faith efforts' documentation within the specified time requirements will result in the Department taking the actions specified in Heading G(6) below. The utilization of DBE is in addition to all other equal opportunity requirements of the contract. The contractor shall include the provisions in Sections B, C and D of these provisions in subcontracts so that such provisions will be binding upon each subcontractor, regular dealer, manufacturer, consultant, or service agency.

E. ELIGIBILITY OF DBE: The DOTD has included as part of the solicitation of bids a current list containing the names of firms that have been certified as eligible to participate as DBE on US DOT assisted contracts. This list is

not an endorsement of the quality of performance of the firm but is simply an acknowledgment of the firm's eligibility as a DBE. This list indicates the project numbers and letting date for which this list is effective. Only DBE listed on this list may be utilized to meet the established DBE goal for these projects.

F. COUNTING DBE PARTICIPATION TOWARD DBE GOALS: DBE participation toward attainment of the goal will be credited on the basis of total subcontract prices agreed to between the contractor and subcontractors for the contract items or portions of items being sublet as reflected on Form CS-6AAA and attachments, in accordance with the DOTD DBE Program, and the following criteria.

(1) Credit will only be given for use of DBE that are certified by the Louisiana Unified Certification Program. Certification of DBE by other agencies is not recognized.

(2) The total value of subcontracts awarded for construction and services to an eligible DBE is counted toward the DBE goal provided the DBE performs a commercially useful function. The contractor is responsible for ensuring that the goal is met using DBE that perform a commercially useful function.

The contractor shall operate in a manner consistent with the guidelines set forth in the DOTD DBE Program. A commercially useful function is performed when a DBE is responsible for the execution of a distinct element of work by actually managing, supervising, and performing the work in accordance with standard industry practices except when such practices are inconsistent with 49 CFR Part 26 as amended, and the DOTD DBE Program, and when the DBE receives due compensation as agreed upon for the work performed. To determine whether a DBE is performing a commercially useful function, the DOTD shall evaluate the work subcontracted in accordance with the DOTD DBE Program, industry practices and other relevant factors. When an arrangement between the contractor and the DBE represents standard industry practice, if such arrangement erodes the ownership, control or independence of the DBE, or fails to meet the commercially useful function requirement, the contractor will not receive credit toward the goal.

(3) A DBE prime contractor may count only the contract amount toward DBE participation for work he/she actually performs and for which he/she is paid. Any subcontract amounts awarded to certified DBE by a DBE prime will also be credited toward DBE participation provided the DBE subcontractor performs a commercially useful function.

(4) A contractor may count toward the DBE goal 100 percent of verified delivery fees paid to a DBE trucker. The DBE trucker must manage and supervise the trucking operations with its own employees and use equipment owned by the DBE trucker. No credit will be counted for the purchase or sale of material hauled unless the DBE trucker is also a DOTD certified DBE supplier. No credit will be counted unless the DBE trucker is an approved subcontractor.

(5) A contractor may count toward the DBE goal that portion of the dollar value with a joint venture equal to the percentage of the ownership and control of the DBE partner in the joint venture. Such crediting is subject to a favorable DOTD review of the joint venture agreement to be furnished by the apparent low bidder before award of the contract. The joint venture agreement shall include a detailed breakdown of the following:

- a. Contract responsibility of the DBE for specific items of work.
- b. Capital participation by the DBE.
- c. Specific equipment to be provided to the joint venture by the DBE.
- d. Specific responsibilities of the DBE in the control of the joint venture.
- e. Specific manpower and skills to be provided to the joint venture by the DBE.
- f. Percentage distribution to the DBE of the projected profit or loss incurred by the joint venture.

(6) A contractor may count toward the DBE goal only expenditures for materials and supplies obtained from DBE suppliers and manufacturers in accordance with the following:

- a. The DBE supplier assumes actual and contractual responsibility for the provision of materials and supplies.
- b. The contractor may count 100 percent of expenditures made to a DBE manufacturer provided the DBE manufacturer operates or maintains a factory or establishment that produces on the premises the materials or supplies obtained by the contractor.
- c. The contractor may count 60 percent of the expenditures to DBE suppliers who are regular dealers but not manufacturers, provided the DBE supplier performs a commercially useful function in the supply process including buying the materials or supplies, maintaining an inventory, and selling materials regularly to the public. Dealers in bulk items such as steel, cement, aggregates and petroleum products are not required to maintain items in stock, but they must own or operate distribution equipment. The DBE supplier shall be certified as such by DOTD.
- d. A DBE may not assign or lease portions of its supply, manufactured product, or service agreement without the written approval of the DOTD.

(7) A contractor may count toward the DBE goal reasonable expenditures to DBE firms including fees and commissions charged for providing a bona fide service; fees charged for hauling materials unless the delivery service is provided by the manufacturer or regular dealer as defined above; and fees and commissions for providing any bonds or insurance specifically required for the performance of the contract.

(8) The contractor will not receive credit if the contractor makes direct payment to the material supplier. However, it may be permissible for a material supplier to invoice the contractor and DBE jointly and be paid by the contractor making remittance to the DBE firm and material supplier jointly. Prior approval by DOTD is required.

(9) The contractor will not receive credit toward the DBE goal for any subcontracting arrangement contrived to artificially inflate the DBE participation.

G. AWARD DOCUMENTATION AND PROCEDURE: This project has specific DBE goal requirements set forth in the Special Provision for DBE Participation in Federal Aid Construction Contracts. The bidder by signing this bid certifies that:

(1) The goal for DBE participation prescribed in the special provisions shall be met or exceeded and arrangements have been made with certified DBE or good faith efforts made to meet the goal will be demonstrated.

(2) Affirmative actions have been taken to seek out and consider DBE as potential subcontractors. Bidders shall contact DBE to solicit their interest, capability, and prices in sufficient time to allow them to respond effectively, and shall retain, on file, proper documentation to substantiate their good faith efforts.

(3) Form CS-6AAA and "Attachment to Form CS-6AAA" and, if necessary, documentation of good faith efforts shall be submitted within 10 business days following the opening of bids to the DOTD Compliance Programs Office. Submittals shall be personally delivered and date and time stamped into the DOTD Compliance Programs Office by the close of business, 10 business days after opening of bids; or mailed to the DOTD Compliance Programs Office by certified mail, return receipt requested and post marked by the 10th business day after the opening of bids. A business day is defined as a normal working day of DOTD.

Should a bidder protest or appeal any matter regarding the bidding or award of a contract in accordance with Subsection 102.13 of the 2006 Standard Specifications (Subsection 102.13 of the 2000 Louisiana Standard Specifications) after the scheduled time of bid opening, the Compliance Programs Section will

immediately suspend the ten day requirement for submission of the CS-6AAA and Attachments until further notice and will notify all parties involved of the suspension. Once the protest has been resolved the Compliance Programs Section will notify the low bidder and issue a date for submission of the CS-6AAA and Attachments.

All attachments to Form CS-6AAA shall include:

- a. The names of DBE subcontractors that will actually participate in meeting the contract goal; and
- b. A complete description of the work to be performed by the DBE including the specific items or portions of items of work, quantities, and unit price(s) of each item; and
- c. The total dollar value of each item that can be credited toward the contract goal; and
- d. Any assistance to be provided to the DBE; and
- e. The signature of each DBE and the contractor attesting that negotiations are in progress and that it is the intention of the parties to enter into a subcontract within 60 calendar days from the time the contract is finalized between the contractor and DOTD.

It shall be the bidder's responsibility to ascertain the certification status of designated DBEs. An extension of time for submittal of Form CS-6AAA and attachments will not be granted beyond the stated time. Questionable technical points will be cleared with the DOTD Compliance Programs Office within the time period allowed. If the documentation required is not provided in the time and manner specified, DOTD will take the actions specified in Heading (6) below.

(4) If the apparent low bidder is not able to meet the DBE goal, the DBE firms that can meet a portion of the goal shall be listed on the form CS-6AAA. Form CS-6AAA and attachments shall be completed and submitted in accordance with Heading (3) above 10 business days after opening of bids. Form CS-6AAA shall indicate the DBE participation which has been secured along with documentation of good faith efforts. The apparent low bidder shall document and submit justification stating why the goal could not be met and demonstrate the good faith efforts as shown in Section J.

The DOTD's evaluation of good faith efforts in the pre-award stage will only focus on efforts made prior to submittal of the bid. For consideration, good faith efforts shall include the requirements listed in these provisions as well as other data the contractor feels is relevant.

(5) Form CS-6AAA and attachments, and documentation of good faith efforts, when appropriate, will be evaluated by DOTD in the selection of the lowest responsible bidder. The information provided shall be accurate and complete. The apparent low bidder's proposed attainment of the DBE goal and/or demonstration of good faith efforts will be considered in the award of the contract.

(6) An apparent low bidder's failure, neglect, or refusal to submit Form CS-6AAA and attachments committing to meet or exceed the DBE goal and/or documentation of good faith efforts, shall constitute just cause for forfeiture of the proposal guarantee and the DOTD rejecting the bid, pursuing award to the next lowest bidder, or re-advertising the project. The original apparent low bidder will not be allowed to bid on the project should readvertisement occur.

The apparent low bidder shall forfeit the proposal guarantee unless the bidder can show that the reason for not meeting the requirements given in these DBE Provisions was beyond the bidder's control. The DOTD Chief Engineer will review the bidder's reasons for not meeting these DBE Provisions and will decide if the reasons are sufficient to allow return of the proposal guarantee.

(7) The bidder has the right to appeal the DOTD's findings and rulings to the DOTD Chief Engineer. The bidder may present information to clarify the previously submitted documentation. The decision rendered by the DOTD Chief Engineer will be administratively final. There shall be no appeal to the US DOT. If

the DOTD Chief Engineer does not rule in favor of the original apparent low bidder, the new apparent low bidder shall submit, in detail, its subsequent proposed DBE participation within 14 calendar days after notification.

(8) Agreements between the bidder and the DBE, whereby the DBE agrees not to provide subcontracting quotations to other bidders, are prohibited.

H. POST AWARD COMPLIANCE

(1) If the contract is awarded on less than full DBE goal participation, such award will not relieve the contractor of the responsibility to continue exerting good faith efforts. The contractor shall submit documentation of good faith efforts with requests to sublet prior to approval of subcontracting work being performed on the project.

(2) The contractor shall establish a program which will effectively promote increased participation by DBE in the performance of contracts and subcontracts. The contractor shall also designate and make known to the DOTD a liaison officer who will be responsible for the administration of the contractor's DBE program.

(3) The contractor shall enter into subcontracts or written agreements with the DBE identified on Form CS-6AAA and attachments for the kind and amount of work specified. The subcontracting requirements of the contract will apply. The contractor shall submit copies of subcontracts or agreements with DBE to DOTD upon request.

(4) The contractor shall keep each DBE informed of the construction progress schedule and allow each DBE adequate time to schedule work, stockpile materials, and otherwise prepare for the subcontract work.

(5) At any point during the project when it appears that the scheduled amount of DBE participation may not be achieved, the contractor shall provide evidence demonstrating how the goal will be met.

(6) If the contractor is unable to demonstrate to the DOTD's satisfaction that it failed to achieve the scheduled DBE participation due to reasons other than quantitative underruns or elimination of items contracted to DBE and that good faith efforts have been used to obtain the scheduled contract participation, the DOTD may withhold an amount equal to the difference between the DBE goal and the actual DBE participation achieved as damages.

(7) When the DOTD has reason to believe the contractor, subcontractor, or DBE may not be operating in compliance with the terms of these DBE provisions, to include, but not be limited to the encouragement of fronting, brokering, or not providing a commercially useful function, the DOTD will conduct an investigation of such activities with the cooperation of the parties involved. If the DOTD finds that any person or entity is not in compliance, the DOTD will notify such person or entity in writing as to the specific instances or matters found to be in noncompliance.

At the option of the DOTD, the person or entity may be allowed a specified time to correct the deficiencies noted and to achieve compliance. In the event that the person or entity cannot achieve compliance, or fails or refuses to do so, the DOTD reserves the right to initiate administrative action against the contractor which may include but not be limited to terminating the contract; withholding a percentage of the contractor's next partial payment equal to the shortfall amount until corrective action is taken; or other action the DOTD deems appropriate. The contractor has the right to appeal the DOTD's finding and rulings to the DOTD Chief Engineer.

The contractor may present additional information to clarify that previously submitted. Any new information not included in the original submittal will not be used in the final determination. The decision rendered by the DOTD Chief Engineer will be administratively final.

(8) To ensure that the obligations under subcontracts awarded to subcontractors are met, the DOTD will review the contractor's efforts to promptly pay subcontractors for work performed in accordance with the

executed subcontracts. The contractor shall promptly pay subcontractors and suppliers, including DBE, their respective subcontract amount within 14 calendar days after the contractor receives payment from DOTD for the items satisfactorily performed by the subcontractors in accordance with Louisiana Revised Statute 9:2784. The contractor shall provide the DBE with a full accounting to include quantities paid and deductions made from the DBE's partial payment at the time the check is delivered. Retainage may be held by the contractor pending completion of a subcontractor's work in accordance with the terms of the subcontract, but must be released by the contractor within 30 calendar days after satisfactory completion of the subcontractor's work and payment for the completed work by the DOTD. Acceptance of the subcontracted work by the Project Engineer shall constitute satisfactory completion of subcontracted work. Delay or postponement of payment to the subcontractor may be imposed by the contractor when there is evidence that the subcontractor has failed to pay its labor force and suppliers for materials received and used on the project. Delay or postponement of payment must have written approval by the Project Engineer. Failure to promptly pay subcontractors or to release subcontractors' retainage shall constitute a breach of contract and after notification by the DOTD may result in (1) a deduction from the contract funds due or to become due the contractor, (2) disqualification of a contractor as non-responsive, or (3) any other such remedy under the contract as DOTD deems appropriate. All subcontracting agreements made by the contractor shall include the current payment to subcontractors provisions as incorporate in the contract. All disputes between contractors and subcontractors relating to payment of completed work or retainage shall be referred to the DBE Oversight Committee. Members of the DBE Oversight Committee are: the Chief, Construction Division; the DOTD Compliance Programs Director; and a FHWA Division Representative.

(9) The contractor shall meet the requirements of Subsection 108.01 Subletting of Contract, and shall submit DOTD Forms OMF-1A, Request to Sublet and OMF-2A, Subcontractor's EEO Certification. These forms shall be approved by DOTD before any subcontract work is performed.

(10) DOTD reserves the right to withhold any partial payment from the contractor when it is determined that a DBE is not performing a commercially useful function or that achievement of the goal is in jeopardy. Payment may be withheld in the amount of the DBE goal that is in jeopardy until either the contractor submits to DOTD a revised plan for achieving the contract goal and the plan is approved, or the DBE goal amount in question has been met.

(11) The DOTD will monitor the contractor's DBE involvement during the contract, the level of effort by the contractor in meeting or exceeding the goal requirements in the contract, the contractor's attempts to do so, and the efforts in soliciting such involvement. If, at the completion of the project, the contractor has failed to meet the DBE goal and has not demonstrated good faith efforts or obtained a waiver or reduction of the goal, DOTD will withhold an amount equal to the difference between the DBE goal and the actual DBE participation achieved as damages.

I. SUBSTITUTIONS OF DBE FIRMS AFTER AWARD

(1) The contractor shall conform to the scheduled amount of DBE participation.

(2) Contract items designated to be performed by the DBE on Form CS-6AAA and attachments shall be performed by the designated DBE or DOTD approved substitute. Substitutions of named DBE shall be approved in writing by the DOTD Compliance Programs Section. Substituted DBE shall not commence work until the contractor is able to demonstrate that the listed DBE is unable to perform because of default, overextension on other jobs, or other acceptable justification. It is not intended that a contractor's ability to negotiate a more advantageous contract with another subcontractor be considered a valid basis for change. Substitution of DBE will be allowed only when the DBE is unable to perform due to default, overextension on other jobs, or other similar justification. Evidence of good faith efforts exerted by the contractor shall be submitted to DOTD for approval. Pay items of work eliminated from the project will not diminish the contractor's DBE participation.

(3) Under no circumstances will a contractor perform work originally designated to be performed by a DBE without prior written approval from the DOTD Compliance Programs Section.

(4) When a listed DBE is unwilling or unable to perform the items of work specified in the Form CS-6AAA and attachments, the contractor shall immediately notify the DOTD Compliance Programs Section.

When a contractor's request to be relieved of the obligation to use the named DBE results in a DBE Goal shortfall, the contractor shall immediately take steps to obtain another certified DBE to perform an equal amount of allowable credit work or make documented good faith efforts to do so. The new DBE's name and designated work shall be submitted to the DOTD for approval using Form OMF-1A, Request to Sublet, prior to proceeding with the work.

If the contractor is unable to replace a defaulting DBE with another DBE for the applicable item, a good faith effort shall be made to subcontract other items to DBE for the purpose of meeting the goal. The DOTD Compliance Programs Section will determine if the contractor made an acceptable good faith effort in awarding work to DBE firms. Any disputes concerning good faith efforts will be referred to the DBE Oversight Committee. The DOTD Compliance Programs Section may allow a waiver or adjustment of the goal as may be appropriate, depending on individual project circumstances.

J. GOOD FAITH EFFORTS: Good faith efforts are required by the contractor when the DBE goals established for a contract are not met, or at anytime during the contract when achievement of the DBE goal is in jeopardy. It is the contractor's responsibility to provide sufficient evidence for DOTD to ascertain the efforts made. The contractor shall demonstrate good faith efforts to maximize participation by DBE prior to award and during the life of the contract. Good faith efforts include personal contacts, follow-ups and earnest negotiations with DBE. DOTD will consider, at a minimum, the following efforts as relevant, although this listing is not exclusive or exhaustive and other factors and types of efforts may be relevant:

(1) Efforts made to select portions of the work to be performed by DBE in order to increase the likelihood of achieving the stated goal. It is the contractor's responsibility to make a sufficient portion of the work available to subcontractors and suppliers and to select those portions of work or materials consistent with the availability of DBE subcontractors and suppliers to assure meeting the goal for DBE participation. Selection of portions of work are required to at least equal the DBE goal in the contract.

(2) Written notification at least 14 calendar days prior to bid opening which solicits a reasonable number of DBE interested in participation in the contract as a subcontractor, regular dealer, manufacturer, or consultant for specific items of work. The contractor shall provide notice to a reasonable number of DBE that their interest in the contract is being solicited, with sufficient time to allow the DBE to participate effectively. The contractor shall seek DBE in the same geographic area from which it generally seeks subcontractors for a given project. If the contractor cannot meet the goal using DBE from the normal area, the contractor shall expand its search to a wider geographic area.

(3) Demonstrated efforts made to negotiate in good faith with interested DBE for specific items of work include:

a. The names, addresses and telephone numbers of DBE contacted. The dates of initial contact and whether initial solicitations of interest were followed-up personally, by mail, or by phone to determine the DBE interest.

b. A description of the information provided to DBE regarding the nature of the work, the plans and specifications and estimated quantities for portions of the work to be performed.

c. A statement of why additional agreements with DBE were not reached.

d. Documentation of each DBE contacted but rejected and the reasons for rejection. All bids and quotations received from DBE subcontractors whether verbal or written, and the contractor's efforts to negotiate a reasonable price shall be submitted. Rejecting a DBE's bid because it was not the lowest quotation received will not be satisfactory reason without an acceptable explanation

of how it was determined to be unreasonable. A statement that the DBE's quotation was more than the contractor's bid price for an item or items will not be acceptable.

e. Copies of all bids and quotations received from DBE subcontractors and an explanation of why they were not used.

f. Scheduling meetings to discuss proposed work or to walk the job-site with DBE.

g. Informing DBE of any pre-bid conferences scheduled by the DOTD.

h. Assisting DBE in obtaining bonding, insurance, or lines of credit required by the contractor.

i. Evidence of DBE contacted but rejected as unqualified, accompanied by reason for rejection based on a thorough investigation of the DBE's capabilities.

j. Any additional information not included above which would aid the DOTD in evaluation of the contractor's good faith efforts.

(4) The following are examples of actions that will not be accepted as justification by the contractor for failure to meet DBE contract goals:

a. Failure to contract with a DBE solely because the DBE was unable to provide performance and/or payment bonds.

b. Rejection of a DBE bid or quotation based on price alone.

c. Failure to contract with a DBE because the DBE will not agree to perform items of work at the unit price bid.

d. Failure to contract with a DBE because the contractor normally would perform all or most of the work in the contract.

e. Rejection of a DBE as unqualified without sound reasons based on a thorough investigation of their capabilities.

f. Failure to make more than mail solicitations.

K. RECORD KEEPING REQUIREMENTS: The contractor shall keep such records as are necessary for the DOTD to determine compliance with the DBE contract obligations. These records shall include the names of subcontractors, including DBE; copies of subcontracts; the type of work being performed; documentation such as canceled checks and paid invoices verifying payment for work, services, and procurement; and documentation of correspondence, verbal contacts, telephone calls, and other efforts to obtain services of DBE. When requested, the contractor shall submit all subcontracts and other financial transactions executed with DBE in such form, manner and content as prescribed by DOTD. The DOTD reserves the right to investigate, monitor and/or review actions, statements, and documents submitted by any contractor, subcontractor, or DBE.

L. REPORTING REQUIREMENTS: The contractor shall submit monthly reports on DBE involvement. At the conclusion of each estimate period the contractor shall submit the Form CP-1A, CONTRACTORS MONTHLY DBE PARTICIPATION, to the project engineer to verify actual payments to DBE for the previous month's reporting period. These reports will be required until all DBE subcontracting activity is complete or the DBE Goal has been achieved. Reports are required regardless of whether or not DBE activity has occurred in the monthly reporting period.

Upon completion of all DBE participation, the contractor shall submit the Form CP-2A, DBE FINAL REPORT, to the DOTD Compliance Programs Section with a copy to the project engineer detailing all DBE subcontract payments. When the actual amount paid to DBE is less than the award amount, a complete explanation of the

difference is required. If the DBE goal is not met, documentation supporting good faith efforts shall be submitted. Failure to submit the required reports will result in the withholding of partial payments to the contractor until the reports are submitted. All payments due subcontractors which affect DBE goal attainment, including retainage, shall be paid by the contractor before the DOTD releases the payment/performance/retainage bond.

The DOTD reserves the right to conduct an audit of DBE participation prior to processing the final estimate and at any time during the work.

M. APPLICABILITY OF PROVISIONS TO DBE BIDDERS: These provisions are applicable to all bidders including DBE bidders. The DBE bidder is required to perform at least 50 percent of the work of the contract with its own work force in accordance with the terms of the contract, normal industry practices, and the DOTD DBE Program. If the DBE bidder sublets any portion of the contract, the DBE bidder shall comply with provisions regarding contractor and subcontractor relationships. A DBE prime contractor may count only the contract amount toward DBE participation for work that he/she actually performs and any amounts awarded to other certified DBE subcontractors that perform a commercially useful function.

FORM CS-6AAA
BIDDERS ASSURANCE OF DBE PARTICIPATION

S.P.#	Contract Amount: \$
F.A.P.#	DBE Goal Percentage
Letting Date:	DBE Goal Dollar Value: \$

By its signature affixed hereto, the contractor assures the DOTD that one of the following situations exists (check only one box):

- ☐ The project goal will be met or exceeded.
- ☐ A portion of the project goal can be met, as indicated below. Good faith effort documentation is attached. DBE Goal Participation Amount _____ % \$ _____.

The contractor certifies that each firm listed is currently on the DBE list as maintained by DOTD and is certified for the items of work shown on the attachment(s). The contractor having assured that the goal for DBE participation prescribed in the special provisions will be met or exceeded, or that the portion of the DBE goal will be met or exceeded, attests that negotiations are in progress or complete and that a subcontract(s) will be executed with the firm(s) listed below within 60 calendar days after award of contract.

NAME OF DBE FIRM(S)	INTENDED SUBCONTRACT PRICE ¹

¹For supplier list only the value of the subcontract that can be credited toward the DBE goal. This amount shall be equal to the amount shown for the supplier on the Attachment to Form CS-6AAA. Details are listed on the attachment(s) to Form CS-6AAA.

The contractor assessed the capability and availability of named firm(s) and sees no impediment to prevent award of subcontract(s) as described on the attachments.

The contractor shall evaluate the subcontract work or services actually performed by the DBE to ensure that a commercially useful function is being served in accordance with the Required Contract Provisions for DBE Participation in Federal Aid Construction Contracts. The contractor understands that no credit toward the DBE goal will be allowed for DBE that do not perform a commercially useful function. The contractor has a current copy of the DOTD DBE Program Implementation Guide which details the methods of operation that are acceptable on projects containing DBE goals. Copies of this guide may be obtained by calling the DOTD Compliance Programs Section at (225) 379-1382.

NAME OF CONTRACTOR	
AUTHORIZED SIGNATURE	
TYPED OR PRINTED NAME	
TITLE	
CONTRACTOR'S DBE LIAISON OFFICER (typed or printed name)	
PHONE NUMBER	
DATE	TAX ID#

02/07

ATTACHMENT TO FORM CS-6AAA

Contractor shall submit a separate attachment for each DBE listed on Form CS-6AAA.

S.P.#	F.A.P.#
NAME OF DBE	
PHONE #	CONTACT PERSON:

Fully describe the work to be performed (furnish materials and install, labor only, supply only, manufacture, hauling, etc.), quantity, unit price, and dollar value for each item to be subcontracted to the DBE listed below.

ITEM NO.	QUANTITY/UNIT PRICE/DESCRIPTION OF WORK TO BE PERFORMED	\$ VALUE

Describe the types of assistance, if any, the contractor will provide to any DBE on this project.

The contractor and DBE subcontractor attest that a subcontract will be executed for the items of work listed above. The contractor acknowledges that it will only receive credit toward the DB goal if the subcontractor performs a commercially useful function. The DBE understands that it is responsible for performing a commercially useful function.

DBE CONTRACTOR'S SIGNATURE	
TYPED OR PRINTED NAME	
TITLE	
DATE	TAX ID#
PRIME CONTRACTOR'S SIGNATURE	
TYPED OR PRINTED NAME	
TITLE	
DATE	

02/07

FORM CP-1A
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
CONTRACTOR'S MONTHLY DBE PARTICIPATION

STATE PROJECT NO. _____	CONTRACTOR: _____	
FEDERAL AID PROJECT NO. _____		
ESTIMATE NO. _____	REPORT PERIOD: _____ TO _____	

DOTD CERTIFIED DBE SUBCONTRACTOR OR SUPPLIER	ITEMS PERFORMED AND PAID THIS ESTIMATE PERIOD	AMOUNT PAID THIS MONTH ¹	TOTAL PAID TO DATE ¹

¹For suppliers, list total amount paid and the 60 percent value counted toward the goal.

This report covers the previous estimate period and shall be submitted to the Project Engineer with the current month's pay estimate. Estimates will be withheld until required form is submitted. Questions should be directed to the DOTD Compliance Programs Section at (225) 379-1382.

The Contractor certifies that the above amounts were paid to the listed DBEs and that documentation of these payments is available for inspection.
 Project Engineer has reviewed this form. _____ (Signature of Project Engineer).

Authorized Signature	
Typed or Printed Name	
Title	
Phone No.	
Date	

02/07

STATE PROJECT NO.	DBE GOAL AMOUNT: \$	CONTRACTOR:
FEDERAL PROJECT NO.	CONTRACT AMOUNT: \$	
PARISHES)	LETTING DATE:	

[illegible]

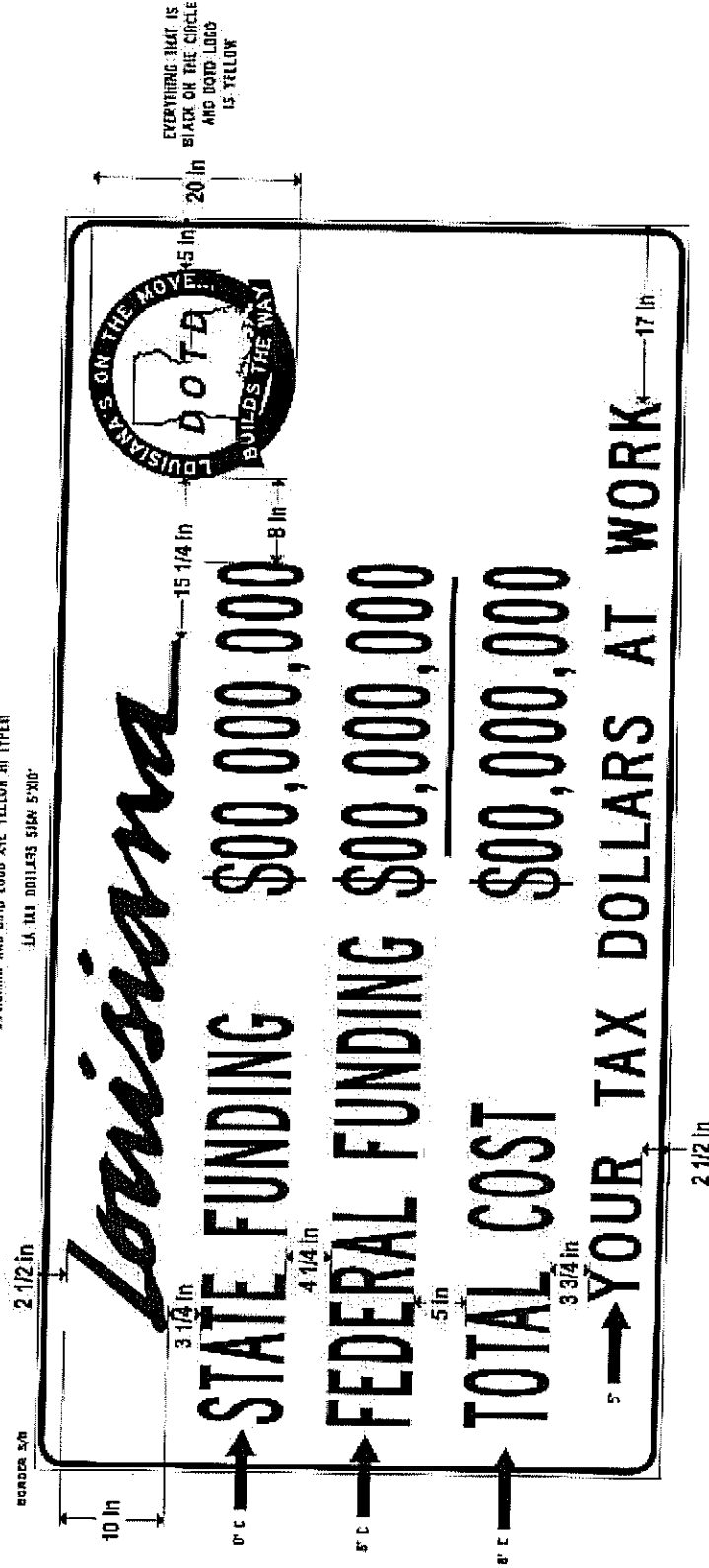
Authorized Signature
Typed or Printed Name
Title
Date

G-13

TO BE USED ON INTERSTATE SYSTEM

SHEET: TYPE: COLORS: BACKGROUND-BLUE, BORDER AND COPY-SILVER IN TYPE: LOUISIANA AND DOTD LOGO ARE YELLOW IN TYPE

LA TAX DOLLARS SIGN 5'X10'



EVERYTHING THAT IS BLACK ON THE CIRCLE AND DOTD LOGO IS YELLOW

COLOR ARTWORK CAN BE FURNISHED UPON REQUEST

General Decision Number: LA080007 02/08/2008 LA7

Superseded General Decision Number: LA20070011

State: Louisiana

Construction Types: Highway

Counties: Acadia, Ascension, Calcasieu, East Baton Rouge, Lafayette, Lafourche, Livingston, St Landry, St Martin, Terrebonne and West Baton Rouge Counties in Louisiana.

HIGHWAY CONSTRUCTION PROJECTS (does not include building structures in rest area projects)

Modification Number	Publication Date
0	02/08/2008

* SULA2004-015 08/03/2004

	Rates	Fringes
Carpenter (including formbuilding/formsetting).....	\$ 11.88	
Cement Mason/Concrete Finisher.....	\$ 12.58	
Electrician (including traffic signal wiring and installation).....	\$ 12.36	
Ironworker, Reinforcing	\$ 12.33	
Laborers		
Asphalt Raker.....	\$ 8.95	
General including landscape/erosion.....	\$ 8.48	
Guardrail.....	\$ 8.21	1.80
Jack Hammer/Vibrator.....	\$ 8.92	
Mason Tender.....	\$ 8.63	
Pipelayer.....	\$ 9.71	1.12
Striping/Pavement Marker including paint striping and attachment of reflector buttons.....	\$ 7.93	
Traffic Control including flagger, sign placement, barricades, and cones.....	\$ 8.15	
Painter, Brush, Spray and Roller.....	\$ 13.40	2.55
Piledriverman.....	\$ 13.97	
Power Equipment Operators		
Air Compressor.....	\$ 9.04	
Asphalt Distributor.....	\$ 9.11	
Asphalt Paving Machine.....	\$ 13.30	0.18
Asphalt Screed.....	\$ 11.86	
Asphalt/Aggregate Spreader..	\$ 10.49	
Backhoe/Excavator.....	\$ 11.31	
Bobcat/Skid Loader.....	\$ 10.00	

Broom/Sweeper.....	\$ 9.30
Bulldozer.....	\$ 12.00
Concrete Saw.....	\$ 9.00
Crane.....	\$ 14.82
Front End Loader.....	\$ 9.60
Mechanic.....	\$ 11.97
Milling/Cold Planing Machine	\$ 13.08
Motor Grade/Blade.....	\$ 11.68
MTV/Shuttlebuggy.....	\$ 10.43
Post Drive including	
guardrails.....	\$ 10.96
Roller.....	\$ 9.97
Stabilizer.....	\$ 9.44
Trackhoe.....	\$ 12.59
Tractor.....	\$ 11.90
Trenching/Boring Machine....	\$ 8.50
Truck drivers	
Dump (all types).....	\$ 10.19
Flatbed.....	\$ 9.46
Lowboy.....	\$ 12.48
Pickup including paint truck	\$ 9.90
Tack.....	\$ 9.28
Water.....	\$ 10.60

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour

Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

**STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND
DEVELOPMENT**



**CONSTRUCTION PROPOSAL
RETURNABLES
FOR**

FEDERAL AID PROJECT

**STATE PROJECT NOS. 450-08-0051, 450-09-0025, 450-09-0026
& 450-10-0140**

**PORT ALLEN – BATON ROUGE
(LA 1 – WASHINGTON STREET OVERPASS)
ROUTE I-10
EAST and WEST BATON ROUGE PARISHES**

BID BOND

A Bid Bond is required when the bidder's total bid amount as calculated by the Department in accordance with Subsection 103.01 is greater than \$50,000. *(See Section 102 of the Project Specifications.)*

_____, as Principal
(Bidder) _____, as Surety,
are bound unto the State of Louisiana, Department of Transportation and Development, (hereinafter called the Department) in the sum of five percent (5%) of the bidder's total bid amount as calculated by the Department for payment, of which the Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, as solidary obligors.

Signed and sealed this _____ day of _____, 20_____.

The condition of this obligation is such that, whereas the Principal has submitted a bid to the Department on a contract for the construction of **STATE PROJECT NOS. 450-08-0051, 450-09-0025, 450-09-0026 and 450-10-0140, FEDERAL AID PROJECT NO. 6104(502), PORT ALLEN – BATON ROUGE (LA 1 – WASHINGTON STREET OVERPASS), located in EAST and WEST BATON ROUGE PARISHES, ROUTE I-10**, if the bid is accepted and the Principal, within the specified time, enters into the contract in writing and gives bond with Surety acceptable to the Department for payment and performance of said contract, this obligation shall be void; otherwise to remain in effect.

Principal (Bidder or First Partner to Joint Venture)
By _____
Authorized Officer-Owner-Partner

If a Joint Venture, Second Partner
By _____
Authorized Officer-Owner-Partner

Typed or Printed Name

Typed or Printed Name

Surety
By _____ (Seal)
Agent or Attorney-in-Fact

Typed or Printed Name

To receive a copy of the contract and subsequent correspondence / communication from LA DOTD, with respect to the bid bonds, the following information must be provided:

Bonding Agency or Company Name

Address

Agent or Representative

Phone Number / Fax Number

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SCHEDULE OF ITEMS

LEAD PROJECT: 450-08-0051
OTHER PROJECTS: 450-09-0025, 450-09-0026, 450-10-0140
DATE: 02/06/09 16:21 PAGE: 1

GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
202-02-H	94	LINEAR FOOT	REMOVAL OF GUARD RAIL DOLLARS CENTS
202-02-J	84	EACH	REMOVAL OF SIGN AND SUPPORT(S) DOLLARS CENTS
202-02-K	109	EACH	REMOVAL OF SIGN FACE(S) DOLLARS CENTS
202-02-L	14	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT DOLLARS CENTS
202-02-M	6	EACH	REMOVAL OF OVERHEAD SUPPORT FOOTING DOLLARS CENTS
202-02-N	1	EACH	REMOVAL OF SIGN SUPPORT DOLLARS CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SCHEDULE OF ITEMS

LEAD PROJECT: 450-08-0051

OTHER PROJECTS: 450-09-0025, 450-09-0026, 450-10-0140

DATE: 02/06/09 16:21 PAGE: 2

GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
704-01-A	100.0	LINEAR FOOT	GUARD RAIL (SINGLE THRIE BEAM) (3'-1 1/2" POST SPACING) DOLLARS CENTS
704-06-A	6.3	LINEAR FOOT	GUARD RAIL ANCHOR SECTIONS (TRAILING END) (SINGLE THRIE BEAM) DOLLARS CENTS
704-07-A	2.5	LINEAR FOOT	GUARD RAIL BRIDGE ATTACHMENTS (SINGLE THRIE BEAM) DOLLARS CENTS
704-08-A	6.3	LINEAR FOOT	GUARD RAIL TRANSITIONS (SINGLE THRIE BEAM) DOLLARS CENTS
713-01	LUMP	LUMP SUM	TEMPORARY SIGNS & BARRICADES DOLLARS CENTS
713-02-A	2,120	LINEAR FOOT	TEMPORARY PAVEMENT MARKINGS (4" WIDTH) DOLLARS CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SCHEDULE OF ITEMS

LEAD PROJECT: 450-08-0051
OTHER PROJECTS: 450-09-0025, 450-09-0026, 450-10-0140
DATE: 02/06/09 16:21 PAGE: 3

GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
713-08	4	EACH	TEMPORARY PRECAST CONCRETE BARRIER (DEPARTMENT FURNISHED) DOLLARS CENTS
727-01	LUMP	LUMP SUM	MOBILIZATION DOLLARS CENTS
729-01	995.5	SQUARE FOOT	SIGN (TYPE A) DOLLARS CENTS
729-02	32.8	SQUARE FOOT	SIGN (TYPE B) DOLLARS CENTS
729-04	858.5	SQUARE FOOT	SIGN (TYPE D) DOLLARS CENTS
729-05	320.0	SQUARE FOOT	SIGN (TYPE E) DOLLARS CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SCHEDULE OF ITEMS

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OTHER PROJECTS: 450-09-0025, 450-09-0026, 450-10-0140
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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
729-06	5,978.0	SQUARE FOOT	SIGN (OVERHEAD MOUNTED) DOLLARS CENTS
729-08-A	23	EACH	MOUNTING (2 1/2" POST) DOLLARS CENTS
729-08-B	6	EACH	MOUNTING (3 1/2" POST) DOLLARS CENTS
729-08-B-01	23	EACH	MOUNTING (3 1/2" POST) (STRUCTURE MOUNT) DOLLARS CENTS
729-08-F	30	EACH	MOUNTING (W6 X 12) DOLLARS CENTS
729-08-F-01	1	EACH	MOUNTING (W6 X 12) (STRUCTURE MOUNT) DOLLARS CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
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LEAD PROJECT: 450-08-0051

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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
729-09-A	1	EACH	MOUNTING (OVERHEAD TRUSS) (GROUND MOUNTED) (36' SPAN) DOLLARS CENTS
729-09-B	3	EACH	MOUNTING (OVERHEAD TRUSS) (GROUND MOUNTED) (48' SPAN) DOLLARS CENTS
729-09-C	1	EACH	MOUNTING (OVERHEAD TRUSS) (GROUND MOUNTED) (66' SPAN) DOLLARS CENTS
729-09-D	1	EACH	MOUNTING (OVERHEAD TRUSS) (GROUND MOUNTED) (72' SPAN) DOLLARS CENTS
729-09-E	1	EACH	MOUNTING (OVERHEAD TRUSS) (GROUND MOUNTED) (78' SPAN) DOLLARS CENTS
729-09-F	1	EACH	MOUNTING (OVERHEAD TRUSS) (GROUND MOUNTED) (84' SPAN) DOLLARS CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SCHEDULE OF ITEMS

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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)	
729-13	1	EACH	MOUNTING (BRIDGE FASCIA MOUNTED)	DOLLARS CENTS
729-18	4	EACH	MILEPOST ASSEMBLY (STRUCTURE MOUNTED)	DOLLARS CENTS
729-18-A	32	EACH	MILEPOST ASSEMBLY (STRUCTURE MOUNTED) (SECONDARY)	DOLLARS CENTS
729-20	8	EACH	FOOTINGS FOR OVERHEAD MOUNTINGS (TRUSS)	DOLLARS CENTS
729-21	20	EACH	U-CHANNEL POST	DOLLARS CENTS
730-11	LUMP	LUMP SUM	REMOVAL AND DISPOSAL OF ELECTRICAL EQUIPMENT	DOLLARS CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
731-02	8,054	EACH	REFLECTORIZED RAISED PAVEMENT MARKERS DOLLARS CENTS
732-02-A	24.000	MILE	PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH) DOLLARS CENTS
732-02-C	12.250	MILE	PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH) DOLLARS CENTS
732-02-E	0.100	MILE	PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH) DOLLARS CENTS
732-03-A-01	8.000	MILE	PLASTIC PAVEMENT STRIPING (BROKEN LINE) (4"WIDTH) PREFORMED MARKING TAPE (CONTRAST TAPE) DOLLARS CENTS
732-04-F-01	4	EACH	PLASTIC PAVEMENT LEGENDS & SYMBOLS (EXIT ONLY) (PREFORMED MARKING TAPE-TYPE V) DOLLARS CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SCHEDULE OF ITEMS

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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
732-04-F-04	15	EACH	PLASTIC PAVEMENT LEGENDS & SYMBOLS (PERFORMED HEAT-APPLIED RETROREFLECTIVE THERMOPLASTIC SHIELDS) (125 MILS) (60"X180") _____ DOLLARS _____ CENTS
732-05	7.800	MILE	REMOVAL OF EXISTING MARKINGS _____ DOLLARS _____ CENTS
740-01	LUMP	LUMP SUM	CONSTRUCTION LAYOUT _____ DOLLARS _____ CENTS
807-08	LUMP	LUMP SUM	STRUCTURAL METALWORK _____ DOLLARS _____ CENTS
S-001	2	EACH	PORTABLE IMPACT ATTENUATOR (CONSTRUCTION ZONE) _____ DOLLARS _____ CENTS
S-002	6	EACH	DYNAMIC MESSAGE SIGN UNIT _____ DOLLARS _____ CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-003	100	LINEAR FOOT	REMOVING AND REINSTALLING GUARD RAIL DOLLARS CENTS
S-004-A	LUMP	LUMP SUM	RE-ROUTING CONDUIT AT SIGN LOCATION 4-8 DOLLARS CENTS
S-004-B	LUMP	LUMP SUM	RE-ROUTING CONDUIT AT SIGN LOCATION 5-6 DOLLARS CENTS
S-101-A	1	EACH	STEEL SUPPORT BRACKET - LOCATION 5-6 DOLLARS CENTS
S-101-B	1	EACH	STEEL SUPPORT BRACKET - LOCATION 5-1 DOLLARS CENTS
S-101-C	1	EACH	STEEL SUPPORT BRACKET - LOCATION 4-9 DOLLARS CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-101-D	1	EACH	STEEL SUPPORT BRACKET - LOCATION 4-8 DOLLARS CENTS
S-102-A	1	EACH	CONCRETE SUPPORT BLISTER - LOCATION 9-12 DOLLARS CENTS
S-102-B	1	EACH	CONCRETE SUPPORT BLISTER - LOCATION 8-21 DOLLARS CENTS
S-103-A	1	EACH	STEEL BRACKET SUPPORTED TRUSS ASSEMBLY - LOCATION 5-6 DOLLARS CENTS
S-103-B	1	EACH	STEEL BRACKET SUPPORTED TRUSS ASSEMBLY - LOCATION 5-1 DOLLARS CENTS
S-103-C	1	EACH	STEEL BRACKET SUPPORTED TRUSS ASSEMBLY - LOCATION 4-9 DOLLARS CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-103-D	1	EACH	STEEL BRACKET SUPPORTED TRUSS ASSEMBLY - LOCATION 4-8 _____ DOLLARS _____ CENTS
S-104-A	1	EACH	CONCRETE BLISTER SUPPORTED TRUSS ASSEMBLY - LOCATION 9-12 _____ DOLLARS _____ CENTS
S-104-B	1	EACH	CONCRETE BLISTER SUPPORTED TRUSS ASSEMBLY - LOCATION 8-21 _____ DOLLARS _____ CENTS
S-105-A	1	EACH	STEEL ADAPTER BRACKET - LOCATION 4-1 _____ DOLLARS _____ CENTS
S-105-B	1	EACH	STEEL ADAPTER BRACKET - LOCATION 8-21 _____ DOLLARS _____ CENTS
S-105-C	1	EACH	STEEL ADAPTER BRACKET - LOCATION 9-5 _____ DOLLARS _____ CENTS

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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-105-D	1	EACH	STEEL ADAPTER BRACKET - LOCATION 9-6 DOLLARS CENTS
S-106	LUMP	LUMP SUM	INSTALLATION OF BEARING PLATES DOLLARS CENTS
S-107	LUMP	LUMP SUM	REQUIRED JACKING OPERATION FOR MOD. OF FALSE CHORDS AT P.P'S 21 AND 35 DOLLARS CENTS
S-108	LUMP	LUMP SUM	REQUIRED JACKING OPERATION FOR MOD. OF LONGITUDINAL STRUTS DOLLARS CENTS
S-117	14	EACH	REPAIRS TO EXISTING TYPE II FLOORBEAM RETROFITS DOLLARS CENTS
S-118	16	EACH	PROPOSED TYPE II FLOORBEAM RETROFITS DOLLARS CENTS

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GENERAL ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-119	29	EACH	REPAIRS TO EXISTING TYPE III AND IV FLOORBEAM RETROFITS
			DOLLARS
			CENTS

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REPLACEMENT OF MAIN TRUSS DECK DRAIN PIPES			ALTERNATE A1 ITEMS		REPLACING DRAIN PIPES WITH STEEL PIPING	
ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE	(IN WORDS, INK OR TYPED)	FIELD VERIFICATION OF DESIGN DIMENSIONS	
S-109	LUMP	LUMP SUM			DOLLARS	CENTS
S-110	108	EACH		REMOVE EXISTING PIPING & BRACING AND INSALL NEW 8" STEEL PIPING, BRACING, HARDWARE @ P.PTS. L0-L13, L15-L41, & L43-L56	DOLLARS	CENTS
S-111	4	EACH		REMOVE EXISTING PIPING & BRACING AND INSALL NEW 8" STEEL PIPING, BRACING, HARDWARE @ MID PANEL PTS. BETWEEN L14 & L42	DOLLARS	CENTS
S-112	16	EACH		REMOVE EXISTING PIPING & BRACING AND INSALL NEW 8" STEEL PIPING, BRACING, HARDWARE @ MID PANEL PTS. BETWEEN L24 & L32	DOLLARS	CENTS

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REPLACEMENT OF MAIN TRUSS DECK DRAIN PIPES			ALTERNATE A2 ITEMS		REPLACING DRAIN PIPES WITH FIBERGLASS PIPING	
ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)			
FIELD VERIFICATION OF DESIGN DIMENSIONS						
S-113	LUMP	LUMP SUM	DOLLARS CENTS			
S-114	108	EACH	REMOVE EXISTING PIPING & BRACING, INSTALL NEW 8" FIBERGLASS PIPING, BRACING, HARDWARE @ P. PTS. L0-L13, L15-L41, & L43-L56			
			DOLLARS CENTS			
S-115	4	EACH	REMOVE EXISTING PIPING & BRACING, INSTALL NEW 8" FIBERGLASS PIPING, BRACING, HARDWARE @ MID PANEL PTS. BETWEEN L14 & L42			
			DOLLARS CENTS			
S-116	16	EACH	REMOVE EXISTING PIPING & BRACING, INSTALL NEW 8" FIBERGLASS PIPING, BRACING, HARDWARE @ MID PANEL PTS. BETWEEN L24 & L32			
			DOLLARS CENTS			

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
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ADDITIVE ALTERNATE		ALTERNATE D1 ITEMS		ADD. ALT. D1 - COPOLYMER OVERLAY SYSTEM	
ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)		
713-01-D	LUMP	LUMP SUM	TEMPORARY SIGNS & BARRICADES (ADDITIVE ALTERNATE D1)	DOLLARS	CENTS
713-03-B-D	4.394 MILE		TEMPORARY PAVEMENT MARKINGS (BROKEN LINE) (4" WIDTH) (10' LENGTH) (ADDITIVE ALTERNATE D1)	DOLLARS	CENTS
713-03-B-01-D	10.985 MILE		TEMPORARY PVMT. MARKINGS (BROKEN LINE) (4" W) (10' L) (TYPE I REMOVABLE) (ADDITIVE ALTERNATE D1)	DOLLARS	CENTS
713-04-A-D	3.656 MILE		TEMPORARY PAVEMENT MARKINGS (SOLID LINE) (4" WIDTH) (ADDITIVE ALTERNATE D1)	DOLLARS	CENTS
713-04-A-01-D	9.035 MILE		TEMPORARY PVMT. MARKINGS (SOLID LINE) (4" W) (TYPE I REMOVABLE) (ADDITIVE ALTERNATE D1)	DOLLARS	CENTS
713-06-D	5,800 EACH		TEMPORARY REFLECTORIZED RAISED PAVEMENT MARKERS (ADDITIVE ALTERNATE D1)	DOLLARS	CENTS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
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ADDITIVE ALTERNATE			ALTERNATE D1 ITEMS		ADD. ALT. D1 - COPOLYMER OVERLAY SYSTEM	
ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)			
727-01-D	LUMP	LUMP SUM	MOBILIZATION (ADDITIVE ALTERNATE D1)			
			_____ DOLLARS			
			_____ CENTS			
S-120-D	41,206.00	SQUARE YARD	EPOXY-URETHANE OVERLAY SYSTEM (ADDITIVE ALTERNATE D1)			
			_____ DOLLARS			
			_____ CENTS			
S-121-D	2.00	SQUARE YARD	BRIDGE DECK PATCHING (ADDITIVE ALTERNATE D1)			
			_____ DOLLARS			
			_____ CENTS			
S-122-D	4	EACH	DYNAMIC MESSAGE SIGN UNIT (ADDITIVE ALTERNATE D1)			
			_____ DOLLARS			
			_____ CENTS			

CONSTRUCTION PROPOSAL SIGNATURE AND EXECUTION FORM

THIS FORM, THE SCHEDULE OF ITEMS, AND THE PROPOSAL GUARANTY MUST BE COMPLETED AS INDICATED AND SUBMITTED TO THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT (DOTD) TO CONSTITUTE A VALID BID

STATE PROJECT NOS.

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FEDERAL AID PROJECT NO.

6104(502)

NAME OF PROJECT

PORT ALLEN – BATON ROUGE
(LA 1 – WASHINGTON STREET OVERPASS)

I (WE) HEREBY CERTIFY THAT I (WE) HAVE CAREFULLY EXAMINED THE PROPOSAL, PLANS AND SPECIFICATIONS, INCLUDING ANY AND ALL ADDENDA, AND THE SITE OF THE ABOVE PROJECT AND AM (ARE) FULLY COGNIZANT OF ALL PROPOSAL DOCUMENTS, THE MASTER COPY OF WHICH IS ON FILE AT DOTD HEADQUARTERS IN BATON ROUGE, LA., AND ALL WORK, MATERIALS AND LABOR REQUIRED THEREIN, AND AGREE TO PERFORM ALL WORK, AND SUPPLY ALL NECESSARY MATERIALS AND LABOR REQUIRED FOR SUCCESSFUL AND TIMELY COMPLETION OF THE ABOVE PROJECT AND TO ACCEPT THE SUMMATION OF THE PRODUCTS OF THE UNIT PRICES BID ON THE SCHEDULE OF ITEMS ATTACHED HERETO AND MADE A PART HEREOF MULTIPLIED BY THE ACTUAL QUANTITY OF UNIT OF MEASURE PERFORMED FOR EACH ITEM, AS AUDITED BY DOTD, AS FULL AND FINAL PAYMENT FOR ALL WORK, LABOR AND MATERIALS NECESSARY TO COMPLETE THE ABOVE PROJECT, SUBJECT TO INCREASE ONLY FOR PLAN CHANGES (CHANGE ORDERS) APPROVED BY THE DOTD CHIEF ENGINEER OR HIS DESIGNEE. THIS BID IS SUBMITTED IN ACCORDANCE WITH THE GENERAL BIDDING REQUIREMENTS IN THE CONSTRUCTION PROPOSAL AND ALL SPECIAL PROVISIONS, PLANS, SUPPLEMENTAL SPECIFICATIONS, AND THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (2006 EDITION). I (WE) UNDERSTAND THAT THE SUMMATION OF THE PRODUCTS OF THE UNIT PRICES BID ON THE SCHEDULE OF ITEMS MULTIPLIED BY THE ESTIMATED QUANTITY OF UNIT OF MEASURE FOR EACH ITEM, ALONG WITH ANY OTHER FACTORS SPECIFIED TO BE APPLICABLE SUCH AS CONSTRUCTION TIME AND/OR LANE RENTAL, SHALL BE THE BASIS FOR THE COMPARISON OF BIDS. I (WE) UNDERSTAND THAT THE SCHEDULE OF ITEMS MUST CONTAIN UNIT PRICES WRITTEN OUT IN WORDS AND THAT THE SCHEDULE OF ITEMS SUBMITTED AS PART OF THIS BID IS ON THE FORM SUPPLIED BY DOTD IN THE BID PROPOSAL. MY (OUR) PROPOSAL GUARANTY IN THE AMOUNT SPECIFIED FOR THE PROJECT IS ATTACHED HERETO AS EVIDENCE OF MY (OUR) GOOD FAITH TO BE FORFEITED IF THIS BID IS ACCEPTED BY DOTD AND I (WE) FAIL TO COMPLY WITH ANY REQUIREMENT NECESSARY FOR AWARD AND EXECUTION OF THE CONTRACT, AS WELL AS, SIGN AND DELIVER THE CONTRACT AND PAYMENT/PERFORMANCE/RETAINAGE BOND AS REQUIRED IN THE SPECIFICATIONS.

NONCOLLUSION DECLARATION (APPLICABLE TO FEDERAL-AID PROJECTS)

I (WE) DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE UNITED STATES AND THE STATE OF LOUISIANA THAT I (WE) HAVE NOT DIRECTLY OR INDIRECTLY, ENTERED INTO ANY AGREEMENT, PARTICIPATED IN ANY COLLUSION, OR OTHERWISE TAKEN ANY ACTION IN RESTRAINT OF FREE COMPETITIVE BIDDING IN CONNECTION WITH THE CONTRACT FOR THIS PROJECT NOR VIOLATED LA. R.S. 48:254.

BIDDER'S DBE GOAL STATEMENT (APPLICABLE TO DBE GOAL PROJECTS)

IF THIS PROJECT IS DESIGNATED BY SPECIAL PROVISION AS A DISADVANTAGED BUSINESS ENTERPRISE (DBE) GOAL PROJECT IN ACCORDANCE WITH THE DBE PROVISIONS OF THIS CONTRACT, THE BIDDER ASSURES DOTD THAT HE/SHE WILL MEET OR EXCEED THE DBE CONTRACT GOAL, OR IF THE BIDDER CANNOT MEET THE REQUIRED DBE GOAL, THE BIDDER ASSURES DOTD THAT HE/SHE HAS MADE AND CAN DOCUMENT GOOD FAITH EFFORTS MADE TOWARDS MEETING THE GOAL REQUIREMENT IN ACCORDANCE WITH THE CONTRACT AND DBE PROGRAM MANUAL INCORPORATED HEREIN BY REFERENCE.

THE APPARENT LOW BIDDER SHALL COMPLETE AND SUBMIT TO THE DOTD COMPLIANCE PROGRAMS OFFICE, FORM CS-6AAA AND ATTACHMENT(S) AND, IF NECESSARY, DOCUMENTATION OF GOOD FAITH EFFORTS MADE BY THE BIDDER TOWARD MEETING THE GOAL, WITHIN TEN BUSINESS DAYS AFTER THE OPENING OF BIDS FOR THIS PROJECT. RESPONSIVENESS OF INFORMATION SUPPLIED IN THIS SECTION OF THIS CONSTRUCTION PROPOSAL SIGNATURE AND EXECUTION FORM IS GOVERNED BY THE DBE REQUIREMENTS INCLUDED WITHIN THE SPECIFICATIONS AND DBE PROGRAM MANUAL.

CERTIFICATION OF EMPLOYMENT OF LOUISIANA RESIDENTS TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIME) PROJECTS (APPLICABLE TO TIME PROJECTS)

IF THIS PROJECT IS DESIGNATED BY SPECIAL PROVISION AS A TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIME) PROJECT AS DEFINED IN ACT NO. 16 OF THE 1989 FIRST EXTRAORDINARY SESSION OF THE LEGISLATURE WHICH ENACTED PART V OF CHAPTER 7 OF SUBTITLE II OF TITLE 47 OF THE LOUISIANA REVISED STATUTES OF 1950, COMPRISED OF R.S. 47:820.1 THROUGH 820.6.

THE BIDDER CERTIFIES THAT AT LEAST 80 PERCENT OF THE EMPLOYEES EMPLOYED ON THIS TIME PROJECT WILL BE LOUISIANA RESIDENTS IN ACCORDANCE WITH LOUISIANA R.S. 47:820.3.

NON PARTICIPATION IN PAYMENT ADJUSTMENT (ASPHALT CEMENT AND FUELS) STATEMENT

IF THIS PROJECT IS DESIGNATED BY SPECIAL PROVISION AS BEING SUBJECT TO PAYMENT ADJUSTMENT FOR ASPHALT CEMENT AND/OR FUELS, THE BIDDER HAS THE OPTION OF REQUESTING EXCLUSION FROM SAID PAYMENT ADJUSTMENT PROVISIONS THAT ARE ESTABLISHED BY SPECIAL PROVISION ELSEWHERE HEREIN.

IF THE BIDDER DESIRES TO BE EXCLUDED FROM THESE PAYMENT ADJUSTMENT PROVISIONS,

THE BIDDER IS REQUIRED TO MARK HERE ☐

FAILURE TO MARK THIS BOX PRIOR TO BID OPENING WILL CONSTITUTE FORFEITURE OF THE BIDDER'S OPTION TO REQUEST EXCLUSION.

CS-14A 08/06

STATE PROJECT NOS. 450-08-0051, 450-09-0025, 450-09-0026 & 450-10-0140

BIDDER SIGNATURE REQUIREMENTS (APPLICABLE TO ALL PROJECTS)

THIS BID FOR THE CAPTIONED PROJECT IS SUBMITTED BY:

(Name of Principal (Individual, Firm, Corporation, or Joint Venture))

(If Joint Venture, Name of First Partner)

(Louisiana Contractor's License Number of Bidder or First Partner to Joint Venture)

(Business Street Address)

(Business Mailing Address, if different)

(Area Code and Telephone Number of Business)

(Telephone Number and Name of Contact Person)

(Telecopier Number, if any)

(If Joint Venture, Name of Second Partner)

(Louisiana Contractor's License Number of Second Partner to Joint Venture)

(Business Street Address)

(Business Mailing Address, if different)

(Area Code and Telephone Number of Business)

(Telephone Number and Name of Contact Person)

(Telecopier Number, if any)

ACTING ON BEHALF OF THE BIDDER, THIS IS TO ATTEST THAT THE UNDERSIGNED DULY AUTHORIZED REPRESENTATIVE OF THE ABOVE CAPTIONED FIRM, CORPORATION OR BUSINESS, BY SUBMISSION OF THIS BID, AGREES AND CERTIFIES THE TRUTH AND ACCURACY OF ALL PROVISIONS OF THIS PROPOSAL, INCLUSIVE OF THE REQUIREMENTS, STATEMENTS, DECLARATIONS AND CERTIFICATIONS ABOVE AND IN THE SCHEDULE OF ITEMS AND PROPOSAL GUARANTY. EXECUTION AND SIGNATURE OF THIS FORM AND SUBMISSION OF THE SCHEDULE OF ITEMS AND PROPOSAL GUARANTY SHALL CONSTITUTE AN IRREVOCABLE AND LEGALLY BINDING OFFER BY THE BIDDER.

(Signature)

(Printed Name)

(Title)

(Date of Signature)

(Signature)

(Printed Name)

(Title)

(Date of Signature)

CONTRACTOR'S TOTAL ALTERNATE A1 \$ _____

CONTRACTOR'S TOTAL ALTERNATE A2 \$ _____

CONTRACTOR'S SUBTOTAL ADDITIVE ALTERNATE D-1 \$ _____

CONTRACTOR'S TOTAL BASE BID + SELECTED ALTERNATE + Additive Alternate D-1 \$ _____

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