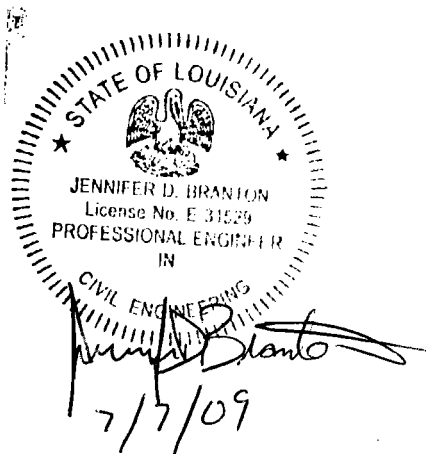


**STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND  
DEVELOPMENT**

**LETTER BID PROPOSAL**



**STATE PROJECT NO. 046-02-0025 & 046-31-0056  
JACKSON BARRACKS MEDIAN CROSSOVERS  
ROUTES LA 46 & LA 39  
ORLEANS PARISH**



**STATE PROJECT NOS. 046-02-0025 & 046-31-0056**  
**TABLE OF CONTENTS**

	Page No.
Title Sheet .....	A-1
Table of Contents .....	B-1
Notice to Contractors .....	C-1 thru C-2
Special Provisions .....	D-1 thru D-15
Supplemental Specifications:	
General Liability Policies (05/75) .....	E-1 thru E-14
Supplemental Specifications for 2006 Standard Specifications (05/09) .....	E-15 thru E-32
Plans (16 sheets) .....	F-1 thru F-16
Construction Proposal Returnables:	
Title Sheet .....	G-1
Bid Bond .....	H-1
Schedule of Items .....	I-1 thru I-4
Construction Proposal Signature and Execution Form .....	J-1 thru J-2

## **NOTICE TO CONTRACTORS (D02 06/09)**

**Sealed paper bids** for the following project will be received by the Department of Transportation and Development (DOTD), 7252 Lakeshore Drive, New Orleans, LA 70124 until 10:00 a.m. on July 24, 2009. No bids are accepted after 10:00 a.m.

**STATE PROJECT NO. 046-02-0025 & 046-31-0056**

DESCRIPTION: JACKSON BARRACKS MEDIAN CROSSEVERS

ROUTE: LA 46 & LA 39

PARISH: ORLEANS

TYPE: MEDIAN Crossover WIDENING, STRIPING AND RELATED WORK

LIMITS: State Project No. 046-02-0025: LOCATED ON ROUTE LA 46 AT ITS INTERSECTION WITH AVENUE C AND 6<sup>TH</sup> STREET AT JACKSON BARRACKS ENTRANCE. (C.S.L.M. 3.54)

LIMITS: State Project No. 046-31-0056: LOCATED ON ROUTE LA 39 AT ITS INTERSECTION WITH AVENUE C AT JACKSON BARRACKS ENTRANCE. (C.S.L.M. 3.80)

ESTIMATED COST RANGE: \$100,000 – \$250,000

PROJECT ENGINEER: FRED WETEKAMM; 14101 Old Gentilly Hwy., New Orleans, LA

PROJECT MANAGER: JENNIFER BRANTON

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 proposals may be obtained at the New Orleans District Design Office, 7252 Lakeshore Drive, New Orleans, LA 70124, or by contacting the DOTD; Email – [Jennifer.Branton@la.gov](mailto:Jennifer.Branton@la.gov), Phone 504-816-73 , Fax 504-816-7302. Proposals will not be issued later than 24 hours prior to the time set for opening bids. Paper copies of the plans are included in the proposal.

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.

**STATE PROJECT NO(S).**  
**SPECIAL PROVISIONS**

**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.

**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.

All asphaltic concrete pavement new construction, overlays, and shoulder surfacing operations open to traffic shall be conducted in accordance with the following requirements.

1. Shoulder Subgrade Preparation: Any required embankment widening shall be completed before placement of the asphaltic concrete overlay. All vegetation shall be removed from existing shoulders before beginning temporary or final shoulder construction. When the Shoulder Wedge is required, the contractor shall blade and shape existing shoulder material to form a uniform surface under the wedge prior to placement of the asphaltic concrete overlay.

2. Temporary Shoulder Construction: Temporary shoulder construction described herein shall be completed at the end of each day's operations for all asphaltic concrete courses except the final wearing course. There shall be no drop-off from the pavement edge to the shoulder. The contractor shall blade and shape existing shoulder material against, and approximately level

**STATE PROJECT NO(S).  
SPECIAL PROVISIONS**

with, the top of the pavement surfacing to form a temporary shoulder with a uniform slope from the pavement edge to the existing shoulder line, or to a point 10 feet (3 m) from the pavement edge. If existing shoulder materials are insufficient, the contractor shall furnish, place and shape additional shoulder surfacing materials to form the temporary shoulder. Existing and/or additional materials for temporary shoulders shall be to the satisfaction of the engineer. Compaction shall be by approved methods.

No direct payment will be made for constructing and subsequently reshaping temporary shoulders, except payment for additional materials under appropriate pay items.

**RAILWAY-HIGHWAY PROVISIONS (08/06):** Subsection 107.08 of the 2006 Standard Specifications is amended as follows.

Heading (n) is amended to include the following. The required Railroad Protective Liability Insurance shall be purchased on behalf of Norfolk Southern.

The ratio of the estimated cost of operations within the Railway's property to the total estimated project cost is eight (8) percent. No direct payment will be made for providing the required insurance coverages.

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

202-02-26300 – Removal of Median/Island  
731-02-00100 – Reflectorized Raised Pavement Markers  
732-01-01040 – Plastic Pavement Striping (8" Width)  
732-01-01080 – Plastic Pavement Striping (24" Width)  
732-02-01000 – Plastic Pavement Striping (Solid Line) (4" Width)  
732-03-01000 – Plastic Pavement Striping (Broken Line) (4" Width)  
732-04-01080 – Plastic Pavement Legends and Symbols (Arrow – Left Turn)  
732-05-00100 – Removal of Existing Markings

**PAYMENT ADJUSTMENT (12/08):** Section 109, Measurement and Payment of the 2006 Standard Specifications and the supplemental specifications thereto, is amended to add the following.

This project is designated for payment adjustment for asphalt cements and fuels in accordance with Subsection 109.09 as follows.

**109.09 PAYMENT ADJUSTMENT (ASPHALT CEMENTS AND FUELS).**

(a) General: Payment for contract items indicated herein will be adjusted to compensate for cost differentials of Performance Graded (PG) asphalt cements, gasoline, and diesel fuel when such costs increase or decrease more than 5 percent from the Department's established base prices for these items. The base price indices for asphalt cements and fuels will be the monthly price indices in effect at the time bids are opened for the project. The base price indices for asphalt cements will be as stated in paragraph (b) below. The base price index for fuels will be as stated in paragraph (c) below.

Payment adjustments will be made each monthly estimate period when a price index for this period varies more than 5 percent from its respective base price index. The monthly price indices to be used with each monthly estimate will be the price indices for the month in which the estimate period begins.

**STATE PROJECT NO(S).**  
**SPECIAL PROVISIONS**

If the project is placed in default, payment adjustments will be based on the monthly price indices used for the last monthly estimate period prior to the project being placed in default, unless a monthly price index decreases in which case the lower monthly price index will be used.

If it is determined after completion of work on any eligible item that the total quantity paid to date must be adjusted to reflect more accurate quantity determinations, the Department will prorate the additional quantity to be added or subtracted over all previous estimate periods in which the item of work was performed in order to determine additional payment adjustments. If payment adjustments were made during any of these partial estimate periods, this added or subtracted quantity that has been prorated will likewise have payment adjustments calculated and included.

(b) Performance Graded (PG) Asphalt Cements: The base price index will be the monthly price index in effect at the time of bid opening as shown elsewhere herein. The monthly price indices will be the average, excluding the extreme outliers, of the unit prices for PG 64-22, the average, excluding the extreme outliers, of the unit prices for PG 70-22m, and the average, excluding the extreme outliers, of the unit prices for PG 76-22m. The monthly prices for each of these asphalt materials will be F.O.B. refinery or terminal as determined from the quoted prices effective on the first calendar day of each month from suppliers of these materials. Suppliers considered are those who have requested to participate in the liquid asphalt index determination and have supplied materials on DOTD projects within the past twelve months. These suppliers and materials shall be listed on the Department's Qualified Products List (QPL 41) and must be marketed in Louisiana. For Asphalt Cements not listed above, the following shall be considered equivalent for payment adjustments:

**Pay Item Equivalents Eligible for Asphalt Pay Adjustment**

<b>Performance Graded Asphalt Cement</b>	<b>Equivalent PG Asphalt Cement for Payment Adjustment</b>
PG 58-28	PG 64-22
PG 64-22	PG 64-22
PG 70-22m	PG 70-22m
PG 76-22m	PG 76-22m
PG 82-22rm	PG 64-22

Payment adjustments will be made in accordance with the following formulas:

If Monthly Price Index exceeds Base Price Index,  
$$P_a = (A - 1.05B) \times C \times D \times (1.00 + T)$$

If Base Price Index exceeds Monthly Price Index,  
$$P_a = (0.95B - A) \times C \times D \times (1.00 + T)$$

**STATE PROJECT NO(S).  
SPECIAL PROVISIONS**

Where:

- $P_a$  = Price adjustment (increase or decrease) for asphalt cement.  
A = Monthly Price Index for respective PG 64-22, PG 70-22m, or PG 76-22m in dollars per ton/megagram.  
B = Base Price Index for respective PG 64-22, PG 70-22m, or PG 76-22m in dollars per ton/megagram.  
C = Tons/megagrams of asphaltic concrete.  
D = Percent of respective asphalt cement, per job mix formula, in decimals.  
T = Louisiana sales tax percentage, in decimals.  
(Note: Local tax is not considered)

The engineer will furnish the weights (mass) of asphaltic concrete placed during the monthly estimate period with the respective asphalt cement content, excluding the asphalt content in reclaimed asphaltic pavement (RAP) as per job mix formula. If the asphalt cement content changes during the estimate period, the respective weight (mass) of asphaltic concrete produced at each cement content will be reported.

All contract pay items using PG 58-28, PG 64-22, PG 70-22m, PG 76-22m, and PG 82-22rm shall be eligible for payment adjustments of asphalt materials; except no payment adjustment will be made for contract pay items under Subsection 510-01, "Pavement Patching", Section 507, "Asphaltic Surface Treatment", nor for any emulsions of cutbacks.

Item 510-02, Pavement Widening, and all contract pay items under Sections 502 and 508, will be eligible for payment adjustments of asphalt materials. No payment adjustment will be made for other asphalt materials, including emulsions and cutbacks.

The base price indices for asphalt cements and fuels will be posted on the DOTD internet website before the 10<sup>th</sup> calendar day of each month at the following URL: [www.dotd.louisiana.gov/lettings/lac\\_price\\_index/priceindices.asp](http://www.dotd.louisiana.gov/lettings/lac_price_index/priceindices.asp).

(c) Fuels: The base price index for this project will be the monthly price index in effect when bids are opened for the project. The monthly price index will be the minimum price quotations for unleaded gasoline and No. 2 diesel fuel listed for the New Orleans area in *Platt's Oilgram and Price Report* effective on the first calendar day of each month.

Payment adjustment will be made in accordance with the following formulas:

If Monthly Price Index exceeds Base Price Index,

$$P_a = (A - 1.05B) \times Q \times F$$

If Base Price Index exceeds Monthly Price Index,

$$P_a = (0.95B - A) \times Q \times F$$

Where:

- $P_a$  = Price adjustment.  
A = Monthly Price Index in dollars per gallon/liter.  
B = Base Price Index in dollars per gallon/liter.  
Q = Pay Item Quantity (Pay Units).  
F = Fuel Usage Factor Gal (L)/Pay Unit.

The following is a listing of contract pay items that are eligible for payment adjustment and the fuel usage factors that will be used in making such adjustment. Contract items that expand the items listed herein by use of letter or number designations are also eligible for fuel price adjustments; for example:

**"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"**



**STATE PROJECT NO(S).**  
**SPECIAL PROVISIONS**

Item 601-01-G, Portland Cement Concrete Pavement 8 inches (200 mm) thick.

**STATE PROJECT NO(S).  
SPECIAL PROVISIONS  
ELIGIBLE CONTRACT PAY ITEMS & FUEL USAGE FACTORS FOR FUEL  
PAYMENT ADJUSTMENT<sup>7</sup>**

ITEM NO.	PAY ITEM	UNITS	MIN. ORIGINAL CONTRACT QUANTITY FOR PAY ADJUSTMENT	FUEL USAGE FACTORS	
				Diesel <sup>2</sup>	Gasoline
203-01 <sup>1</sup>	General Excavation	gal/cu yd	10,000 cu yd	0.29	0.15
203-02	Drainage Excavation	gal/cu yd	10,000 cu yd	0.29	0.15
203-03 <sup>1</sup>	Embankment	gal/cu yd	10,000 cu yd	0.29	0.15
203-04	Nonplastic Embankment	gal/cu yd	10,000 cu yd	0.29	0.15
203-07	Borrow (Vehicular Measurement)	gal/cu yd	10,000 cu yd	0.29	0.15
301-01	Class I Base Course	gal/cu yd	3,000 cu yd	0.88	0.57
301-02	Class I Base Course ( " Thick)	gal/sq yd	50,000 sq yd	0.04	0.03
302-01	Class II Base Course	gal/cu yd	3,000 cu yd	0.88	0.57
302-02	Class II Base Course ( " Thick)	gal/sq yd	50,000 sq yd	0.04	0.03
303-01	In-Place Cement Stabilized Base Course	gal/sq yd	50,000 sq yd	0.04	0.03
304-02	Lime Treatment (Type B)	gal/sq yd	50,000 sq yd	0.04	0.03
304-03	Lime Treatment (Type C)	gal/sq yd	50,000 sq yd	0.04	0.03
304-04	Lime Treatment (Type D)	gal/sq yd	50,000 sq yd	0.04	0.03
305-01	Subgrade Layer ( " Thick)	gal/sq yd	50,000 sq yd	0.04	0.03
308-01	In-Place Cement Treated Base Course	gal/sq yd	50,000 sq yd	0.04	0.03
401-01	Aggregate Surface Course (Net Section)	gal/cu yd	3,000 cu yd	0.88	0.57
401-02	Aggregate Surface Course (Adjusted Vehicular Measurement)	gal/cu yd	3,000 cu yd	0.88	0.57
502-01	Superpave Asphaltic Concrete	gal/ton	1000 ton	2.40 <sup>3</sup>	0.2
502-02	Superpave Asphaltic Concrete	gal/cu yd	500 cu yd	4.80 <sup>4</sup>	0.4
502-03	Superpave Asphaltic Concrete ( " Thick)	gal/sq yd	10,000 sq yd	0.13 <sup>5,6</sup>	0.01 <sup>6</sup>
508-01	Asphaltic Concrete (SMA)	gal/ton	1000 ton	2.40 <sup>3</sup>	0.2
510-02	Pavement Widening	gal/sq yd	3,000 sq yd	0.86	0.24
601-01	Portland Cement Concrete Pavement ( " Thick)	gal/sq yd	15,000 sq yd	0.11	0.15

1 If project has both 203-01 & 203-03, only the item with larger quantity is eligible.

2 For fuel adjustment purposes, the term "diesel" shall represent No. 2 or No. 4 fuel oils or any of the liquified petroleum gases, such as propane or butane.

3 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 1.67 gal/ton.

4 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 13.34 gal/cu yd.

5 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 0.09 gal/sq yd.

6 Per inch of thickness.

7 No fuel adjustment will be allowed for waste oil.

**STATE PROJECT NO(S).  
SPECIAL PROVISIONS  
ELIGIBLE CONTRACT PAY ITEMS & FUEL USAGE FACTORS FOR FUEL  
PAYMENT ADJUSTMENT (METRIC)<sup>7</sup>**

ITEM NO.	PAY ITEM	UNITS	MIN. ORIGINAL CONTRACT QUANTITY FOR PAY ADJUSTMENT	FUEL USAGE FACTORS	
				Diesel <sup>2</sup>	Gasoline
203-01 <sup>1</sup>	General Excavation	l/m <sup>3</sup>	7,600 m <sup>3</sup>	1.44	0.74
203-02	Drainage Excavation	l/m <sup>3</sup>	7,600 m <sup>3</sup>	1.44	0.74
203-03 <sup>1</sup>	Embankment	l/m <sup>3</sup>	7,600 m <sup>3</sup>	1.44	0.74
203-04	Nonplastic Embankment	l/m <sup>3</sup>	7,600 m <sup>3</sup>	1.44	0.74
203-07	Borrow (Vehicular Measurement)	l/m <sup>3</sup>	7,600 m <sup>3</sup>	1.44	0.74
301-01	Class I Base Course	l/m <sup>3</sup>	2,300 m <sup>3</sup>	4.36	2.82
301-02	Class I Base Course ( mm Thick)	l/m <sup>2</sup>	41,800 m <sup>2</sup>	0.18	0.14
302-01	Class II Base Course	l/m <sup>3</sup>	2,300 m <sup>3</sup>	4.36	2.82
302-02	Class II Base Course ( mm Thick)	l/m <sup>2</sup>	41,800 m <sup>2</sup>	0.18	0.14
303-01	In-Place Cement Stabilized Base Course	l/m <sup>2</sup>	41,800 m <sup>2</sup>	0.18	0.14
304-02	Lime Treatment (Type B)	l/m <sup>2</sup>	41,800 m <sup>2</sup>	0.18	0.14
304-03	Lime Treatment (Type C)	l/m <sup>2</sup>	41,800 m <sup>2</sup>	0.18	0.14
304-04	Lime Treatment (Type D)	l/m <sup>2</sup>	41,800 m <sup>2</sup>	0.18	0.14
305-01	Subgrade Layer ( mm Thick)	l/m <sup>2</sup>	41,800 m <sup>2</sup>	0.18	0.14
308-01	In-Place Cement Stabilized Base Course	l/m <sup>2</sup>	41,800 m <sup>2</sup>	0.18	0.14
401-01	Aggregate Surface Course (Net Section)	l/m <sup>3</sup>	2,300 m <sup>3</sup>	4.36	2.82
401-02	Aggregate Surface Course (Adjusted Vehicular Measurement)	l/m <sup>3</sup>	2,300 m <sup>3</sup>	4.36	2.82
502-01	Superpave Asphaltic Concrete	l/Mg	900 Mg	10.01 <sup>3</sup>	0.83
502-02	Superpave Asphaltic Concrete	l/m <sup>3</sup>	400 m <sup>3</sup>	23.77 <sup>4</sup>	1.98
502-03	Superpave Asphaltic Concrete ( mm Thick)	l/m <sup>2</sup>	8,400 m <sup>2</sup>	0.59 <sup>5,6</sup>	0.45 <sup>6</sup>
508-01	Asphaltic Concrete (SMA)	l/Mg	900 Mg	10.01 <sup>3</sup>	0.83
510-02	Pavement Widening	l/m <sup>2</sup>	2,500 m <sup>2</sup>	3.89	1.09
601-01	Portland Cement Concrete Pavement ( mm Thick)	l/m <sup>2</sup>	12,500 m <sup>2</sup>	0.5	0.68

1 If project has both 203-01 & 203-03, only the item with larger quantity is eligible.

2 For fuel adjustment purposes, the term "diesel" shall represent No. 2 or No. 4 fuel oils or any of the liquified petroleum gases, such as propane or butane.

3 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 6.97 l/mg.

4 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 16.53 l/m<sup>3</sup>.

5 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 0.41 l/m<sup>2</sup>.

6 Per mm of thickness.

7 No fuel adjustment will be allowed for waste oil.

**STATE PROJECT NO(S).**

**SPECIAL PROVISIONS**

**SUPERPAVE ASPHALTIC CONCRETE MIXTURES (11/08):** Section 502, Superpave Asphaltic Concrete Mixtures of the 2006 Standard Specifications as amended by the supplemental specifications thereto, is further amended as follows.

Subsection 502.04, Job Mix Formula Validation.

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

A JMF is considered validated if the following parameters are 71 percent within limits of the JMF and meet the specifications requirements.

Subsection 502.05, Plant Quality Control.

Delete the first paragraph and substitute the following.

For quality control purposes, the contractor shall obtain a minimum of two (2) samples of mixture from each subplot using a stratified random sampling approach. Test results for theoretical maximum specific gravity ( $G_{mm}$ ) and measured bulk specific gravity ( $G_{mb}$ ) at  $N_{max}$  and percent  $G_{mm}$  at  $N_{initial}$ , on samples of each subplot shall be reported. Control charts may be requested by the engineer if mixture problems develop. Quality control gyratory samples may be aged or unaged at the contractor's option, but the method chosen shall be used consistently throughout the project. If aged samples are used, report the measured  $G_{mb}$  at  $N_{max}$ . If unaged samples are used, report the estimated  $G_{mb}$  at  $N_{max}$ . One loose mix sample shall be taken from each subplot after placement of the mix in the truck. The mix shall be tested by the contractor at the plant for aggregate gradation, asphalt content and percent crushed aggregate. The mix shall be tested in accordance with DOTD TR 309, TR 323 and TR 306. The lot average and standard deviation shall be determined for aggregate gradation and asphalt content. The percent within limits (PWL) shall be determined on the Nos. 8 and 200 (2.36 mm and 75  $\mu$ m) sieves and for  $G_{mm}$ . Corrective action shall be taken if these parameters fall below 71 PWL. For each lot, the contractor shall report all quality control data to the DOTD Certified Plant Technician. The full range of gradation mix tolerances will be allowed even if they fall outside the control points. The District Laboratory Engineer may require re-validation of the mix when the average of the Quality Control data indicates non-compliance with the specified limits or tolerances.

Subsection 502.15, Measurement.

Subheading (c), Surface Tolerance Incentive Measurement.

Delete the first paragraph and substitute the following.

At the completion of construction of the project, an independent certified profiler such as that of a private company or the Materials and Testing Section, approved by the Department, shall be used to measure a continuous profile from the start station to the end station of the construction project for the purpose of determining qualification for incentive pay under Subsection 502.16(e). Bridges and 300 feet (90 m) on each end of the bridge will be excluded from measurements for surface tolerance incentive pay.

Delete Table 502-7A, Payment Adjustment Schedule for Plant Acceptance and substitute the following.

**STATE PROJECT NO(S).  
SPECIAL PROVISIONS**

**Table 502-7A**

**Payment Adjustment Schedule for Plant Acceptance**

Air Voids PWL (90 AQL)	Percent Payment
71-100	100
61-70	90
51-60	80
≤50	50 or Remove <sup>1</sup>

<sup>1</sup>At the option of the Department after investigation.

Delete Table 502-7B, Payment Adjustment Schedule for Roadway Density and substitute the following.

**Table 502-7B**

**Payment Adjustment Schedule for Roadway Density**

Roadway Density PWL (90 AQL)	Percent Payment
99-100	102
81-98	100
71-80	95
51-70	80
≤50	50 or Remove <sup>1</sup>

<sup>1</sup>At the option of the Department after investigation.

Delete Table 502-8A, Payment Adjustment Schedules for Longitudinal Surface Tolerance, Maximum International Roughness Index, inches per mile (mm per km) and substitute the following.

**STATE PROJECT NO(S).  
SPECIAL PROVISIONS**

**Table 502-8A  
Payment Adjustment Schedules for Longitudinal  
Surface Tolerance, Maximum International Roughness Index,  
inches per mile (mm per km)**

Percent of Contract Unit Price (by Sublot) <sup>1</sup>	102% <sup>2</sup>	100%	90%	80%	50% or Remove <sup>3</sup>
Category A All Interstates, Multi-Lift New Construction and Overlays of More than two Lifts	<45 (<710)	<65 (<1030)	65-75 (1030-1180)	NA	>75 (>1180)
Category B One or Two Lift Overlays Over Cold Planed Surfaces, and Two-Lift Overlays Over Existing Surfaces <sup>4</sup>	<55 (<870)	<75 (<1180)	75-89 (1180-1400)	NA	>89 (>1400)
Category C Single-Lift Overlays Over Existing Surfaces <sup>4</sup>	N/A	<85 (<1340)	85-95 (1340-1500)	>95-110 (>1500-1740)	>110 (>1740)
Longitudinal Surface Tolerance Incentive Pay, Final Completion, Average of All Travel Lanes <sup>5</sup>	≤ 45 (≤ 710)				

<sup>1</sup>Or portion of sublot placed on the project.

<sup>2</sup>Maximum payment for sublots with exception areas, exclusions or grinding is 100 percent, unless the excluded area is a bridge end.

<sup>3</sup>At the option of the engineer.

<sup>4</sup> Existing surfaces include reconstructed bases without profile grade control.

<sup>5</sup>Only Category A projects are eligible for incentive. However, any grinding except within 300 feet (90 m) of a bridge end will cause the roadway to be ineligible for surface tolerance incentive pay. Measurements must be verified by an independent entity.

Delete Table 502-8B, Individual Wheelpath Deficient Area Limits, Maximum International Roughness Index, Inches per Mile (mm per km) and substitute the following.

**Table 502-8B  
Individual Wheelpath Deficient Area Limits  
Maximum International Roughness Index, inches per mile (mm per km)**

Any 0.05 Mile (0.08 km) Segment	Wearing Course	Binder Course
Category A	89 (1400)	130 (2050)
Category B	99 (1560)	150 (2370)
Category C	N/A	N/A

**STATE PROJECT NO(S).**  
**SPECIAL PROVISIONS**

**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.

**ASPHALT MATERIALS AND ADDITIVES (04/08):** Section 1002 of the 2006 Standard Specifications and the supplemental specifications thereto is amended as follows.

Subsection 1002.02, Asphalt Material Additives is amended as follows.

Table 1002-1, Performance Graded Asphalt Cements is deleted and the following substituted.

**STATE PROJECT NO(S).  
SPECIAL PROVISIONS**

**Table 1002-1  
Performance Graded Asphalt Cements**

Property	AASHTO Test Method	PG82-22rm <sup>6</sup>	PG76-22m	PG70-22m	PG64-22	PG58-28
		Spec.	Spec.	Spec.	Spec.	Spec.
<b>Tests on Original Binder:</b>						
Rotational Viscosity @ 135°C, Pa·s <sup>1</sup>	T 316	3.0	3.0	3.0	3.0	3.0
Dynamic Shear, 10 rad/s, G*/Sin Delta, kPa	T 315	1.00+ @ 82°C	1.00+ @ 76°C	1.00+ @ 70°C	1.30+ @ 64°C	1.00+ @ 58°C
Flash Point, °C	T 48	232+	232+	232+	232+	232+
Solubility, % <sup>2</sup>	T 44	N/A	99.0+	99.0+	99.0+	99.0+
Separation of Polymer, 163°C, 48 hours, degree C difference in R & B from top to bottom <sup>5</sup>	ASTM D 7173 AASHTO T 53	---	2-	2-	---	---
Force Ductility Ratio (f <sub>2</sub> /f <sub>1</sub> , 4°C, 5 cm/min., f <sub>2</sub> @ 30 cm elongation) <sup>3</sup>	T 300	---	0.30+	---	---	---
Force Ductility, (4°C, 5 cm/min, 30 cm elongation, kg) <sup>3</sup>	T 300	---	---	0.23+	---	---
<b>Tests on Rolling Thin Film Oven Residue:</b>	T 240					
Mass loss, %	T 240	1.00-	1.00-	1.00-	1.00-	1.00-
Dynamic Shear, 10 rad/s, G*/Sin Delta, kPa	T 315	2.20+ @ 82°C	2.20+ @76°C	2.20+ @ 70°C	2.20+ @ 64°C	2.20+ @ 58°C
Elastic Recovery, 25°C, 10 cm elongation, % <sup>4</sup>	T 301	60+	60+	40+	---	---
Ductility, 25°C, 5 cm/min, cm	T 51	---	---	---	100+	---
<b>Tests on Pressure Aging Vessel Residue:</b>	R 28					
Dynamic Shear, @ 25°C, 10 rad/s, G* Sin Delta, kPa	T 315	5000-	5000-	5000-	5000-	5000- @ 19°C
Bending Beam Creep Stiffness, S, MPa @ -12°C.	T 313	300-	300-	300-	300-	300- @ -18°C
Bending Beam Creep Slope, m value,@ -12°C	T 313	0.300+	0.300+	0.300+	0.300+	0.300+ @ -18°C

<sup>1</sup>The rotational viscosity will be measured to determine product uniformity. The rotational viscosity measured by the supplier shall be noted on the Certificate of Delivery. A binder having a rotational viscosity of 3.0 Pa·s or less will typically have adequate mixing and pumping capabilities. Binders with rotational viscosity values higher than 3.0 Pa·s should be used with caution and only after consulting with the supplier as to any special handling procedures and guarantees of mixing and pumping capabilities.

<sup>2</sup>Not all polymers are soluble in the specified solvents. If the polymer modified asphalt digested in the solvent will not pass the filter media, a sample of the base asphalt used in making the



**STATE PROJECT NO(S).  
SPECIAL PROVISIONS**

polymer modified asphalt should be tested for solubility. If the solubility of the base asphalt is at least 99.0%, the material will be considered as passing.

<sup>3</sup>AASHTO T 300 except the second peak (f<sub>2</sub>) is defined as the stress at 30 cm elongation.

<sup>4</sup>AASHTO T 301 except elongation shall be 10 cm.

<sup>5</sup>Prepare samples per ASTM D 7173. Determine softening point of top and bottom per AASHTO T 53.

<sup>6</sup>The quality assurance plan for this product will require the contractors who use this material to submit written documentation of tank cleaning annually. Contractors must have tank mixers. Written certificates of analysis from the asphalt binder supplier confirming rubber source and size distribution of rubber used shall be furnished to the Materials Laboratory.

Add the following Table 1002-12, Anionic Trackless Tack Coat Grade NTSS-1HM.

Table 1002-12  
Anionic Trackless Tack Coat Grade NTSS-1HM

Property	AASHTO Test Method	Specification Deviation	
		100% Pay	50% Pay or Remove <sup>1</sup>
Viscosity, Saybolt Furol @ 25°C, s	T 59	15 - 100	---
Storage Stability, 24 Hour, %	T 59	1.0-	---
Settlement, 5 Days, %	T 59	5.0-	---
Residue by Distillation, %	T 59	50+	49-
Oil Distillate, %	T 59	1.0-	---
Sieve Test <sup>2</sup> , (Retained on the 850 µm), %	T 59	0.3-	---
Tests on Residue			
Penetration @ 25°C, 100g, 5s, dmm	T 49	20-	---
Softening Point, Ring and Ball, °C	T 53	65+	64-
Solubility, %	T 44	97.5+	---
DSR @ 25°C; G*Sin δ, 10 rad / s, kPa	T 315	1.0+	---

<sup>1</sup> At the option of Engineer.

<sup>2</sup> Sieve tests may be waived if no application problems are present in the field.

**BASE COURSE AGGREGATES (07/08):** Subsection 1003.03 of the 2006 Standard Specifications is amended to include the following.

(e) Blended Calcium Sulfate: When blended calcium sulfate base course material is allowed on the plans, it shall consist of calcium sulfate from a source approved by the Materials and Testing Section and be blended with an approved aggregate or lime. The source shall have a quality control program approved by the Materials and Testing Section. The source shall have been given environmental clearance by the Department of Environmental Quality for the intended use, and written evidence of such environmental clearance shall be on file at the Materials and Testing Section. DOTD monitoring for compliance with environmental regulations will be limited to the pH testing stated herein below. The blended material shall be non-plastic and reasonably free from organic and foreign matter. The pH shall be a minimum of 5.0 when tested in accordance with DOTD TR 430. Re-evaluation will be required if the source of the aggregate or lime that is blended with the calcium sulfate changes.

Blended calcium sulfate material used as base course shall comply with the following gradation requirements when tested in accordance with DOTD TR 113, modified to include a

**STATE PROJECT NO(S).  
SPECIAL PROVISIONS**

maximum drying temperature of 140°F (60°C). Sampling shall be taken from an approved stockpile at the point of origin.

<u>U.S. Sieve</u>	<u>Metric Sieve</u>	<u>Percent Passing</u>
1-1/2 inch	37.5 mm	60 - 100
1 inch	25.0 mm	40 - 80
3/4 inch	19.0 mm	30 - 70
No. 4	4.75 mm	20 - 65
No. 200	75 µm	0 - 25

Blended calcium sulfate shall be sampled in accordance with the requirements for stone in Section 302 of the Materials Sampling Manual.

**NS DYNAMIC MESSAGE SIGN UNIT (12/04):** 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 engineer.

The dynamic 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 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 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 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 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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
NS-713-00001	Dynamic Message Sign Unit	Each

**STATE PROJECT NO(S).  
SPECIAL PROVISIONS**

**CONTRACT TIME (03/05):** The entire contract shall be completed in all details and ready for final acceptance in accordance with Subsection 105.17(b) within **twenty (20) working** days.

Prior to assessment of contract time, the contractor will be allowed 30 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**

**STANDARD PROVISIONS  
GENERAL LIABILITY POLICIES**

**GENERAL INSTRUCTIONS**

**1. STANDARD LANGUAGE:** This form is expressed in standard language which may not be amended and no part of which may be omitted except (a) as indicated by these instructions, or (b) as indicated in reference notes shown below referring to specific portions of the form, or (c) by an endorsement which states an amendment or exclusion of some provision of the form in accordance with the provisions of a manual rule, the form of which endorsement has been approved, if required, by the supervising authority of the State in which the policy is issued.

**2. OPTIONAL SEQUENCE AND ARRANGEMENT:** The several parts of the form, viz. "Insuring Agreements," "Exclusions," "Conditions" and "Declarations" may appear in the policy in such sequence as the company may elect and the sequence and arrangement of the several provisions of those parts are also optional with the company.

**3. DESCRIPTIVE HEADINGS--IDENTIFYING OR INDEXING DESIGNATIONS:** The descriptive headings of the parts of the form (as quoted above) and of the major insuring agreements ("Bodily Injury Liability," "Property Damage Liability," etc.) are standard expressions which may not be amended or omitted, but all other identifying or indexing designations (such as "Coverage A," "Defense, Settlement, Supplementary Payments," "Cancellation," etc.), including literal or numerical designations or paragraphs or phrases, may be amended or omitted at the company's option. When such identifying or indexing designations, used for the purpose of reference in the text of the form or any endorsement form applicable thereto, are amended or omitted, descriptive designations shall be substituted.

**4. ADDITIONAL COVERAGES OR COMPANIES, EXPLANATORY OR CONNECTIVE LANGUAGE:** When policies are issued to provide insurance in this form together with insurance covering other risks, the addition of necessary explanatory or connective language which does not amend the expression of this form is permissible and the introductory language of the "Insuring Agreements" which provides for the issuance of a policy by 2 companies may be used and, if necessary, paraphrased to permit such policies to be issued by more than 2 companies.

**5. DECLARATIONS--INCLUDING OTHER RISKS:** A common set of declarations may be used in those cases where policies in this form are issued with policies covering other risks.

**6. INSTALLMENT PREMIUM PAYMENT:** Policies written to provide for payment of premium in installments may provide for lapse or suspension of the policy upon default of payment when due.

**7. ADDITION OF COVERAGE BY ENDORSEMENT:** When insuring agreements and other provisions relating to any particular class of insurance are added to this policy by endorsement, such additional insurance must be expressed in approved standard language relating to the particular class and must be subject to all standard provisions applicable to that class by the expressions of the endorsement or of the policy or of both taken together.

**8. DEFINITION OF "STANDARD" AND "APPROVED":** "Standard language" or "approved standard language" when used in these instructions means the form and endorsements either prescribed or approved by the insurance supervising authority of the State in which policy forms and endorsements are approved or prescribed. In those States where supervising authorities do not have the authority to approve or prescribe policies, forms and endorsements, the terms mean the forms and endorsements adopted by the companies for use in such States.

**9. PREMIUM STATEMENT:** The statement with respect to payment of premium may be amended by an endorsement to make necessary provision with respect to payment of premium, payment of additional premium and return of premium and dividends under the policy.

**10. SPECIAL CONDITIONS FOR MUTUALS, RECIPROCAL, AND PARTICIPATING STOCK COMPANIES:** When the policy is issued by a mutual company, a reciprocal association or a participating stock company having special provisions applicable to its membership or policyholders, such provisions, when approved by the supervising authority of the State in which the policy is issued if such approval is required, may be inserted in the policy.

BLANK INDEMNITY COMPANY  
BLANK INSURANCE COMPANY

1

Railroad Protective Liability Policy No. (State or Federal Highway Projects)
--

---

<sup>1</sup>Matter in box may be included, omitted or amended at the option of the company.

## DECLARATIONS

Item 1. Named Insured \_\_\_\_\_

Address \_\_\_\_\_  
(Street No.                      Town or City   Parish or County                      State)

Item 2. Policy Period:                      From \_\_\_\_\_ to \_\_\_\_\_  
12:01 A.M. Central Standard (or Daylight) Time at the designated job site as stated herein.

Item 3. The insurance afforded is only with respect to such of the following coverages as are indicated [in Item 6] by specific premium charge or charges. The limit of the company's liability against such coverages shall be as stated herein, subject to all the terms of this policy having reference thereto. (A statement may be added that a definite notation may be made in the premium column to show that a particular coverage is not afforded.)

Coverages		Limits of Liability
Blank Indemnity Company	A-Bodily Injury Liability	\$ each person \$ each occurrence
Blank Insurance Company	B-Property Damage Liability C-Physical Damage to Property	\$ each occurrence \$ aggregate

Item 4. Name and Address of Contractor \_\_\_\_\_

Item 5. Name and Address of Governmental Authority for whom the work by the Contractor is being performed \_\_\_\_\_

Item 6. Designation of Job  
Site & Description of Work

Premium Bases	Rates	Advance Premiums
	Coverage A   Coverages B & C	Coverage A   Coverages B & C
Contract Cost Rental Cost	Per \$100 of Cost Per \$100 of Rental Cost	

If Policy Period more than 1 year:

Premium is payable: On effective date of Policy      \$      1st Anniversary

\$      2nd Anniversary

Date and Place of Issue \_\_\_\_\_

{Countersigned { \_\_\_\_\_ 20 \_\_, at \_\_\_\_\_}

By \_\_\_\_\_

- A. Renewal of policy number.
- B. The name insured is a corporation.
- C. Endorsement serial numbers.
- D. Rating plan or premium discount.

(For policy issued by one company)

(Name and Location of Indemnity Company)

A (type of company) insurance company, herein called the company

agrees with the insured, named in the declarations made a part hereof, in consideration of the payment of the premium and in reliance upon the statements in the declarations made by the name insured and subject to all of the terms of this policy:

(For policy issued by two companies)

(Name and Location of Indemnity Company)

and

(Name and Location of Insurance Company)

Each a (type of company) insurance company, herein called the company,

severally agree with the insured named in the declarations made a part hereof, in consideration of the payment of the premium and in reliance upon the statements in the declarations made by the named insured and subject to all of the terms of this policy, provided the Blank Indemnity

Company shall be made the insurer with respect to coverage \_\_\_\_\_  
and no other and the Blank Insurance Company shall be the insurer with respect to  
coverage \_\_\_\_\_ and no other.



## INSURING AGREEMENTS

**I. COVERAGE A - BODILY INJURY LIABILITY:** To pay on behalf of the insured all sums which the insured shall become legally obligated to pay as damages because of bodily injury, sickness, or disease, including death at any time resulting therefrom, hereinafter called "bodily injury," either (1) sustained by any person arising out of acts or omissions at the designated job site which are related to or are in connection with the work described in Item 6 of the Declarations, or (2) sustained at the designated job site by the contractor or any employee of the contractor, or by any employee of the governmental authority specified in Item 5 of the declarations, or by any designated employee of the insured, whether or not arising out of such acts omissions.

**COVERAGE B - PROPERTY DAMAGE LIABILITY:** To pay on behalf of the insured all sums which the insured shall become legally obligated to pay as damages because of physical injury to or destruction of property, including loss of use of any property due to such injury or destruction, hereinafter called "property damage" arising out of acts or omissions at the designated job site which are related to or are in connection with the work described in Item 6 of the declarations.

**COVERAGE C - PHYSICAL DAMAGE TO PROPERTY:** To pay for direct and accidental loss of or damage to rolling stock and their contents, mechanical construction equipment, or motive power equipment, hereinafter called loss, arising out of acts or omissions at the designated job site which are related to or are in connection with the work described in Item 6 of the declarations; provided such property is owned by the named insured or is leased or entrusted to the named insured under a lease or trust agreement.

## **II. DEFINITIONS**

(a) Insured - The unqualified word "insured" includes the name insured and also includes any executive officer, director or stockholder thereof while acting within the scope of his duties as such.

(b) Contractor - The word "contractor" means the contractor designated in Item 4 of the declarations and includes all subcontractors of said contractor but shall not include the name insured.

(c) Designated employee of the insured - The words "designated employee of the insured" mean:

- (1) Any supervisory employee of the insured at the job site.
- (2) Any employee of the insured while operating, attached to or engaged on work trains or other railroad equipment at the job site which are assigned exclusively to the contractor, or
- (3) Any employee of the insured not within (1) or (2) who is specifically loaned or assigned to the work of the contractor for prevention of accidents or protection of property, the cost of whose services is borne specifically by the contractor or by governmental authority.
- (d) Contract - The word "contract" means any contract or agreement to carry a person or property for a consideration or any lease, trust or interchange contract or agreement respecting motive power, rolling stock or mechanical construction equipment.

**III. DEFENSE, SETTLEMENT, SUPPLEMENTARY PAYMENTS:** With respect to such insurance as is afforded by this policy under coverages A and B, the company shall:

- (a) Defend any suit against the insured alleging such bodily injury or property damage and seeking damages which are payable under the terms of this policy, even if any of the allegations of the suit are groundless, false or fraudulent, but the company may make such investigation and settlement of any claim or suit as it deems expedient;
- (b) Pay, in addition to the applicable limits of liability:
  - (1) All expenses incurred by the company, all costs taxed against the insured in any such suit and all interest on the entire amount of any judgment therein which accrues after entry of the judgment and before the company has paid or tendered or deposited in court that part of the judgment which does not exceed the limit of the company's liability thereon;
  - (2) Premiums on appeal bonds required in any such suit, premiums on bonds to release attachments for an amount not in excess of the applicable limit of liability of this policy, but without obligation to apply for or furnish any such bonds;
  - (3) Expenses incurred by the insured for such immediate medical and surgical relief to others as shall be imperative at the time of the occurrence;
  - (4) All reasonable expenses other than loss of earnings, incurred by the insured at the company's request.

**IV. POLICY PERIOD, TERRITORY:** This policy applies only to occurrences and losses during the policy period and within the United States of America, its territories, or possessions, or Canada.

### **EXCLUSIONS**

This policy does not apply:

- (a) to liability assumed by the insured under any contract or agreement except a contract as defined herein;
- (b) to bodily injury or property damage caused intentionally by or at the direction of the insured;
- (c) to bodily injury, property damage or loss which occurs after notification to the named insured of the acceptance of the work by the governmental authority, other than bodily injury, property damage or loss resulting from the existence or removal of tools, uninstalled equipment and abandoned or unused materials;
- (d) under Coverages A (l), B and C, to bodily injury, property damage or loss, the sole proximate cause of which is an act or omission of any insured other than acts or omissions of any designated employee of any insured;
- (e) under Coverage A, to any obligation for which the insured or any carrier as his insurer may be held liable under any workmen's compensation, unemployment compensation or disability benefits law, or under any similar law; provided that the Federal Employers' Liability Act, U. S. Code (1946) Title 45, Sections 51-60, as amended, shall for the purposes of this insurance be deemed not to be any similar law;
- (f) under Coverage B, to injury to or destruction of property (i) owned by the named insured or (ii) leased or entrusted to the named insured under a lease or trust agreement.
- (g) 1. Under any Liability Coverage, to injury, sickness, disease, death or destruction.
  - (a) with respect to which an insured under the policy is also an insured under a nuclear energy liability policy issued by Nuclear Energy Liability Insurance Association, Mutual Atomic Energy Liability Underwriters or Nuclear Insurance Association of Canada, or would be an insured under any such policy but for its termination upon exhaustion of its limit of liability; or
  - (b) resulting from the hazardous properties of nuclear material and with respect to which (1) any person or organization is required to maintain financial protection pursuant to the Atomic Energy Act of 1954, or any law amendatory thereof or (2) the

insured is, or had this policy not been issued would be, entitled to indemnity from the United States of America, or any agency thereof, under any agreement entered into by the United States of America, or any agency thereof, with any person or organization.

2. Under any Medical Payments Coverage, or under any Supplementary-Payments provision relating to immediate medical or surgical relief, to expenses incurred with respect to bodily injury, sickness, disease or death resulting from the hazardous properties of nuclear material and arising out of the operation of a nuclear facility by any person or organization.

3. Under any Liability Coverage, to injury, sickness, disease, death or destruction resulting from the hazardous properties of nuclear material, if

(a) The nuclear material (1) is at any nuclear facility owned by, or operated by or on behalf of, an insured or (2) has been discharged or dispersed therefrom;

(b) The nuclear material is contained in spent fuel or waste at any time possessed, handled, used, processed, stored, transported or disposed of by or on behalf of an insured; or

(c) The injury, sickness, disease, death or destruction arises out of the furnishing by an insured of services, materials, parts of equipment in connection with the planning, construction, maintenance, operation or use of any nuclear facility, but if such facility is located within the United States of America, its territories or possessions or Canada, this exclusion (c) applies only to injury to or destruction of property at such nuclear facility.

4. As used in this exclusion:

"hazardous properties" include radioactive, toxic or explosive properties;

"nuclear material" means source material, special nuclear material or byproduct material;

"source material," "special nuclear material," and "byproduct material" have the meanings given them in the Atomic Energy Act of 1954 or in any law amendatory thereof;

"spent fuel" means any fuel element or fuel component, solid or liquid, which has been used or exposed to radiation in a nuclear reactor;

"waste" means any waste material (1) containing byproduct material and (2) resulting from the operation by any person or organization of any nuclear facility included within the definition of nuclear facility under paragraph (a) or (b) below;

"nuclear facility" means

- (a) any nuclear reactor,
- (b) any equipment or device designed or used for (1) separating the isotopes of uranium or plutonium, (2) processing or utilizing spent fuel, or (3) handling, processing or packaging waste,
- (c) any equipment or device used for the processing, fabricating or alloying of special nuclear material if at any time the total amount of such material in the custody of the insured at the premises where such equipment or device is located consists of or contains more than 25 grams of plutonium or uranium 233 or any combination thereof, or more than 250 grams of uranium 235,
- (d) any structure, basin, excavation, premises or place prepared or used for the storage or disposal of waste,

and includes the site on which any of the foregoing is located, all operations conducted on such site and all premises used for such operations;

"nuclear reactor" means any apparatus designed or used to sustain nuclear fission in a self-supporting chain reaction or to contain a critical mass of fissionable material;

with respect to injury to or destruction of property, the word "injury" or "destruction" includes all forms of radioactive contamination of property.

- (h) Under Coverage C, to loss due to nuclear reaction, nuclear radiation or radioactive contamination, or to any act or condition incident to any of the foregoing.

### **CONDITIONS**

[The conditions, except conditions 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 apply to all coverages. Conditions 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 apply only to the coverage noted thereunder.]

1. **Premium:** The premium bases and rates for the hazards described in the declarations are stated therein. Premium bases and rates for hazards not so described are those applicable in accordance with the manuals in use by the company.

The term "contract cost" means the total cost of all work described in Item 6 of the declarations.

The term "rental cost" means the total cost to the contractor for rental of work trains or other railroad equipment, including the remuneration of all employees of the insured while operating, attached to or engaged thereon.

The advance premium stated in the declarations is an estimated premium only. Upon termination of this policy the earned premium shall be computed in accordance with the company's rules, rates, rating plans, premiums and minimum premiums applicable to this insurance. If the earned premium thus computed exceeds the estimated advance premium paid, the company shall look to the contractor specified in the declarations for any such excess; if less, the company shall return to the said contractor the unearned portion paid.

In no event shall payment of premium be an obligation of the named insured.

2. Inspection: The named insured shall make available to the company records of information relating to the subject matter of this insurance.

The company shall be permitted to inspect all operations in connection with the work described in Item 6 of the declarations.

3. Limits of Liability - Coverage A: The limit of bodily injury liability stated in the declarations as applicable to "each person" is the limit of the company's liability for all damages, including damages for care and loss of services, arising out of bodily injury sustained by 1 person as the result of any 1 occurrence; the limit of such liability stated in the declarations as applicable to "each occurrence" is, subject to the above provision respecting each person, the total limit of the company's liability for all such damage arising out of bodily injury sustained by 2 or more persons as the result of any 1 occurrence..

4. Limits of Liability - Coverages B and C: The limit of liability under coverages B and C stated in the declarations as applicable to "each occurrence" is the total limit of the company's liability for all damages and all loss under coverages B and C combined arising out of physical injury to, destruction or loss of all property of one or more persons or organizations, including the loss of use of any property due to such injury or destruction under coverage B, as the result of any 1 occurrence.

Subject to the above provisions respecting "each occurrence," the limit of liability under coverages B and C stated in the declaration as "aggregate" is the total limit of the company's liability for all damages and all loss under coverages B and C combined arising out of physical injury to, destruction or loss of property, including the loss of use of any property due to such injury or destruction under coverage B.

Under coverage C, the limit of the company's liability for loss shall not exceed the actual cash value of the property, or if the loss is of a part thereof the actual cash value of such part, at time of loss, not what it would then cost to repair or replace the property or such part thereof with other of like kind and quality.

5. Severability of Interests - Coverages A and B: The term "the insured" is used severally and not collectively, but the inclusion herein of more than one insured shall not operate to increase the limits of the company's liability.

6. Notice: In the event of an occurrence or loss, written notice containing particulars sufficient to identify the insured and also reasonably obtainable information with respect to the time, place and circumstances thereof, and the names and addresses of the injured and of available witnesses, shall be given by or for the insured to the company or any of its authorized agents as soon as practical. If claim is made or suit is brought against the insured, he shall immediately forward to the company every demand, notice, summons or other process received by him or his representative.

7. Assistance and Cooperation of the Insured - Coverages A and B: The insured shall cooperate with the company and, upon the company's request, attend hearings and trials and assist in making settlements, securing and giving evidence, obtaining the attendance of witnesses and in the conduct of suits. The insured shall not, except at his own cost, voluntarily make any payment, assume any obligation or incur any expense other than for such immediate medical and surgical relief to others as shall be imperative at the time of accident.

8. Action Against Company - Coverages A and B: No action shall lie against the company unless, as a condition precedent thereto, the insured shall have fully complied with all the terms of this policy, nor until the amount of the insured's obligation to pay shall have been finally determined either by judgment against the insured after actual trial or by written agreement of the insured, the claimant and the company.

Any person or organization or the legal representative thereof who has secured such judgment or written agreement shall thereafter be entitled to recover under this policy to the extent of the insurance afforded by this policy. No person or organization shall have any right under this policy to join the company as a party to any action against the insured to determine the insured's liability. Bankruptcy or insolvency of the insured or of the insured's estate shall not relieve the company of any of its obligations hereunder.

9. Action Against Company - Coverage C: No action shall lie against the company unless, as a condition precedent thereto, there shall have been full compliance with all the terms on this policy nor until 30 days after proof of loss is filed and the amount of loss is determined as provided in this policy.

10. Insured's Duties in Event of Loss - Coverage C: In the event of loss the insured shall:

(a) protect the property, whether or not the loss is covered by this policy, and any further loss due to the insured's failure to protect shall not be recoverable under this policy; reasonable expenses incurred in affording such protection shall be deemed incurred at the company's request.

(b) file with the company, as soon as practicable after loss, his sworn proof of loss in such form and including such information as the company may reasonably require and shall upon the company's request, exhibit the damaged property.

11. Appraisal - Coverage C: If the insured and the company fail to agree as to the amount of loss, either may, within 60 days after the proof of loss is filed, demand an appraisal of the loss. In such event the insured and the company shall each select a competent appraiser, and the appraisers shall select a competent and disinterested umpire. The appraisers shall state separately the actual cash value and the amount of loss and failing to agree shall submit their differences to the umpire. An award in writing of any two shall determine the amount of loss. The insured and the company shall each pay his chosen appraiser and shall bear equally the other expenses of the appraisal and umpire.

The company shall not be held to have waived any of its rights by any act relating to appraisal.

12. Payment of Loss - Coverage C: The company may pay for the loss in money but there shall be no abandonment of the damaged property to the company.

13. No Benefit to Bailee - Coverage C: The insurance afforded by this policy shall not enure directly or indirectly to the benefit of any carrier or bailee, other than the named insured, liable for loss to the property.

14. Subrogation: In the event of any payment under this policy, the company shall be subrogated to all the insured's rights of recovery therefor against any person or organization and the insured shall execute and deliver instruments and papers and do whatever else is necessary to secure such rights. The insured shall do nothing after loss to prejudice such rights.

15. Application of Insurance: The insurance afforded by this policy is primary insurance.

16. Three Year Policy: A policy period of 3 years is comprised of 3 consecutive annual periods. Computation and adjustment of earned premium shall be made at the end of each annual period. Aggregate limits of liability as stated in this policy shall apply separately to each annual period.



17. Changes: Notice to any agent or knowledge possessed by any agent or by any other person shall not effect a waiver or a change in any part of this policy or stop the company from asserting any right under the terms of this policy; nor shall the terms of this policy be waived or changed, except by endorsement issued to form a part of this policy [signed by \_\_\_\_\_]

\_\_\_\_\_ (here insert titles of authorized company officials or representatives); provided, however, changes may be made in the written portion of the declaration by \_\_\_\_\_ (here insert titles of authorized company representatives) when initialed by such \_\_\_\_\_ (here insert titles of authorized company representatives) or by endorsement issued to form a part of this policy signed by such \_\_\_\_\_

(here insert titles of authorized company representatives).

18. Assignment: Assignment of interest under this policy shall not bind the company until its consent is endorsed hereon.

19. Cancellation: This policy may be cancelled by the named insured by mailing to the company written notice stating when thereafter the cancellation shall be effective. This policy may be cancelled by the company by mailing to the named insured, contractor and governmental authority at the respective addresses shown in this policy written notice stating when not less than 30 days thereafter such cancellation shall be effective. The mailing of notice as aforesaid shall be sufficient proof of notice. The effective date and hour of cancellation stated in the notice shall become the end of the policy period. Delivery of such written notice either by the named insured or by the company shall be equivalent to mailing.

If the named insured cancels, earned premium shall be computed in accordance with the customary short rate table and procedure. If the company cancels, earned premium shall be computed pro rata. Premium adjustment may be made either at the time cancellation is effected or as soon as practical after cancellation becomes effective, but payment or tender of unearned premium is not a condition of cancellation.

20. Declarations: By acceptance of this policy the named insured agrees that such statement in the declarations as are made by him are his agreements and representations, that this policy is issued in reliance upon the truth of such representations and that this policy embodies all agreements existing between himself and the company or any of its agents relating to this insurance.

(For policy issued by one company)

In witness whereof, the Blank Indemnity Company has caused this policy to be signed by this president and a secretary at \_\_\_\_\_ and countersigned on the declarations page by a duly authorized agent of the company.

(FACSIMILE OF SIGNATURE)      (FACSIMILE OF SIGNATURE)  
Secretary                                      President

(For policy issued by two companies)

In witness whereof, the Blank Indemnity Company has caused this policy with respect to coverages \_\_\_\_\_ and such other parts of the policy as are applicable thereto, to be signed by its president and a secretary at \_\_\_\_\_, and countersigned on the declarations page by a duly authorized agent of the company.

(FACSIMILE OF SIGNATURE)      (FACSIMILE OF SIGNATURE)  
Secretary                                      President

In witness whereof, the Blank Insurance Company has caused this policy, with respect to coverages \_\_\_\_\_ and such other parts of the policy as are applicable thereto, to be signed by its president and a secretary at \_\_\_\_\_, and countersigned on the declarations page by a duly authorized agent of the company.

(FACSIMILE OF SIGNATURE)      (FACSIMILE OF SIGNATURE)  
Secretary                                      President

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

**TABLE OF CONTENTS**

**PART I – GENERAL PROVISIONS**

<b>SECTION 101 – GENERAL INFORMATION, DEFINITIONS, AND TERMS</b>	
Subsection 101.03 – Definitions .....	1
<b>SECTION 102 – BIDDING REQUIREMENTS</b>	
Subsection 102.09 – Proposal / Bid Guaranty .....	1
<b>SECTION 107 – LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC</b>	
Subsection 107.05 – Federal Aid Participation.....	2
<b>SECTION 108 – PROSECUTION AND PROGRESS</b>	
Subsection 108.04 – Prosecution of Work.....	2

**PART II – EARTHWORK**

<b>SECTION 202 – REMOVING OR RELOCATING</b>	
<b>STRUCTURES AND OBSTRUCTIONS</b>	
Subsection 202.06 – Plugging or Relocating Existing Water Wells .....	2

**PART III – BASE COURSES**

<b>SECTION 302 – CLASS II BASE COURSE</b>	
Subsection 302.01 – Description .....	2
Subsection 302.02 – Materials .....	2
Subsection 302.04 – General Construction Requirements .....	2
Subsection 302.05 – Mixing .....	3
Subsection 302.06 – Transporting and Placing on Subgrade .....	3
Subsection 302.07 – Compacting and Finishing.....	3
Subsection 302.09 – Protection and Curing.....	4
Subsection 302.12 – Acceptance Requirements .....	4
<b>SECTION 305 – SUBGRADE LAYER</b>	
Subsection 305.06 – Payment.....	4
<b>SECTION 307 – PERMEABLE BASES</b>	
Subsection 307.02 – Materials .....	5
<b>SECTION 308 – IN-PLACE CEMENT TREATED BASE COURSE</b>	
All Subsections .....	5

Supplemental Specifications – Table of Contents (05/09)

v

**PART V – ASPHALTIC PAVEMENTS**

**"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"**

**SECTION 502 – SUPERPAVE ASPHALTIC CONCRETE MIXTURES**  
Subsection 502.02 – Materials .....5  
Subsection 502.14 – Lot Sizes .....6  
**SECTION 508 – STONE MATRIX ASPHALT**  
Subsection 508.01 – Description .....6  
Subsection 508.02 – Materials .....7

**PART VI – RIGID PAVEMENT**

**SECTION 602 – PORTLAND CEMENT CONCRETE PAVEMENT  
REHABILITATION**  
Subsection 602.17 – Payment .....7

**PART VII – INCIDENTAL CONSTRUCTION**

**SECTION 701 – CULVERTS AND STORM DRAINS**  
All Subsections .....7  
**SECTION 704 – GUARD RAIL**  
Subsection 704.03 – General Construction Requirements .....18  
**SECTION 706 – CONCRETE WALKS, DRIVES AND INCIDENTAL PAVING**  
All Subsections .....18  
**SECTION 713 – TEMPORARY TRAFFIC CONTROL**  
Subsection 713.06 – Pavement Markings .....20  
**SECTION 729 – TRAFFIC SIGNS AND DEVICES**  
Subsection 729.02 – Materials .....21  
Subsection 729.04 – Fabrication of Sign Panels and Markers .....22

**PART VIII – STRUCTURES**

**SECTION 804 – DRIVEN PILES**  
Subsection 804.08 – Construction Requirements .....22

**PART IX – PORTLAND CEMENT CONCRETE**

**SECTION 901 – PORTLAND CEMENT CONCRETE**  
Subsection 901.06 – Quality Control of Concrete .....22  
Subsection 901.08 – Composition of Concrete .....22

**PART X – MATERIALS**

**SECTION 1001 – HYDRAULIC CEMENT**  
Subsection 1001.01 – Portland Cement .....23

**SECTION 1003 – AGGREGATES**  
Subsection 1003.02 – Aggregates for Portland Cement Concrete and Mortar .....23

**SECTION 1005 – JOINT MATERIALS FOR PAVEMENTS AND STRUCTURES**  
Subsection 1005.04 – Combination Joint Former/Sealer .....24

**SECTION 1006 – CONCRETE AND PLASTIC PIPE**  
Subsection 1006.09 – Plastic Yard Drain Pipe .....25

**SECTION 1013 – METALS**  
Subsection 1013.09 – Steel Piles .....25

**SECTION 1015 – SIGNS AND PAVEMENT MARKINGS**  
Subsection 1015.04 – Sign Panels .....25  
Subsection 1015.05 – Reflective Sheeting.....26  
Subsection 1015.11 – Preformed Plastic Pavement Marking Tape .....30

**SECTION 1020 – TRAFFIC SIGNALS**  
Subsection 1020.01 – Traffic Signal Heads.....31  
Subsection 1020.04 – Poles for Traffic Signal Systems .....32

## **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 302.01 – Description (12/08), Page 150.

Add the following to the third paragraph:

(6) Blended Calcium Sulfate

Subsection 302.02 – Materials (12/08), Pages 150 and 151.

Add the following to the first paragraph:

\_\_\_\_\_ Blended Calcium Sulfate 1003.01 & 1003.03 (e)

Subsection 302.04 – General Construction Requirements (12/08), Page 152.

Add the following:

Blended calcium sulfate will be allowed in areas of new alignment, fill areas, and cut areas less than one foot.

In cut areas greater than one foot (300 mm), an additional one foot (300 mm) of undercut will be required prior to placement of BCS. The additional undercut area shall be replaced with non-plastic sand embankment and encapsulated with a Class D geotextile fabric. The additional

non-plastic material, geotextile fabric, and undercut shall be at no additional cost to the Department.

Blended calcium sulfate will not be allowed in areas needed to facilitate traffic control or when a soil cement base course is specified in the plans. Blended calcium sulfate shall not be placed within 10 feet (3.0 m) of metal drainage structures. The contractor will be allowed to substitute any untreated Class II base course material listed in Subsection 302.01. Flowable fill under Section 710, or other approved backfill material in Section 701 shall be used to backfill the drainage structure.

Subsection 302.05 – Mixing (08/06) (12/08), 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.

Add Heading (d) as follows:

(d) Blended Calcium Sulfate: Calcium sulfate shall be blended with an approved aggregate or lime prior to placement. The blended calcium sulfate material shall be uniformly mixed and sampled from dedicated stockpiles. Gradation sampling in accordance with Subsection 1003.03 shall be taken from the dedicated stockpiles at the point of material origin.

Subsection 302.06 – Transporting and Placing on Subgrade (12/08), Page 154.

Add the following:

Water shall be added or other suitable means taken to prevent dust during the transporting and placing of dry blended calcium sulfate.

Subsection 302.07 - Compacting and Finishing (12/08), Pages 154 and 155.

Add Heading (e) as follows:

(e) Blended Calcium Sulfate: Blended calcium sulfate shall be placed and spread on the subgrade and compacted to produce layers not exceeding 12 inches (300 mm) compacted thickness. During placement the material shall be thoroughly wetted by application of water to maintain 2 to 4 percent above optimum moisture. After application of water, allow the moisture to reach equilibrium in the base before applying rolling techniques. Rolling of BCS is required to the edge of the embankment or subgrade. Each layer shall be compacted to at least 95 percent of maximum dry density or compacted by an approved established rolling pattern determined by the project engineer before the next layer is placed. Optimum moisture and maximum density shall be determined in accordance with DOTD TR 418 Method G modified to include a maximum drying temperature of 140°F (60°C).

Add Heading (f) as follows:

(f) Proof Rolling: Proof rolling shall be done by a load of 25 tons (25 Mg) in a 12 to 14 cubic yard (9 to 10.5 cubic meters) tandem dump truck with ten wheels or approved loaded truck



determined by the project engineer. Proof rolling shall be a minimum of 5 passes in each direction at the same locations and at a maximum vehicle speed of 3 mph (4.8 km/h).

All BCS base will be tested by proof rolling prior to placement of surfacing material, including asphalt binder. Any irregularities or soft spots shall be corrected prior to placement of the surfacing material. Any rain event on the project site between the proof rolling and placement of the surfacing will require an additional proof rolling as noted above.

Subsection 302.09 – Protection and Curing (12/08), Page 155.

Add Heading (c) as follows:

(c) Blended Calcium Sulfate: Protection and curing of blended calcium sulfate shall be in accordance with Subsection 302.09(b).

Subsection 302.12 – Acceptance Requirements (12/08), Pages 156 – 161.

Add the following to Heading (a):

The acceptance requirements for blended calcium sulfate base course shall be the same as stone base course with the following modifications. Upon completion of compaction operations, the density will be determined in accordance with DOTD TR 401 except that all moisture content determinations for density calculations shall be conducted by oven drying the material for 24 hours at 140°F (60°C). A forced draft type oven capable of maintaining the temperature shall be provided by the contractor for field moisture content determination for density control.

**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)

**Supplemental Specifications (May 2009)**

**Page 5 of 32**

**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 <sup>1</sup>
IV	All mixtures, except travel lane wearing courses <sup>2</sup>

<sup>1</sup> 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.

<sup>2</sup> 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.

**Supplemental Specifications (May 2009)**

**Page 9 of 32**

(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, whichever 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 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.

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)

**Supplemental Specifications (May 2009)**

**Page 18 of 32**

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

**Supplemental Specifications (May 2009)**

**Page 19 of 32**

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.

#### **Supplemental Specifications (May 2009)**

#### **Page 20 of 32**

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<sup>1,2</sup>**

		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.

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

<sup>2</sup>On 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.

(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 Sheeting<sup>1</sup>

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

<sup>1</sup>Minimum 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) <sup>1</sup>								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	

<sup>1</sup>The 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 Standards<sup>1</sup>

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

<sup>1</sup>At 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.

<sup>2</sup>Percent retained retroreflectivity of referenced table after the outdoor test exposure time specified.

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

<sup>4</sup>ASTM D 4956, Table 8.

<sup>5</sup>ASTM D 4956, Table 13.

<sup>6</sup>ASTM 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 <sup>1</sup> -- Durability <sup>2</sup>				Colorfastness <sup>3</sup>
	Orange/ Fluorescent Orange		All colors, except orange/Fluorescent Orange		
III	3 years	80 <sup>4</sup>	10 years	80 <sup>4</sup>	3 years
X	3 years	80 <sup>5</sup>	7years	80 <sup>5</sup>	3 years

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

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

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

<sup>4</sup>ASTM D4956, Table 8.

<sup>5</sup>ASTM 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 <sup>1</sup> 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 <sup>1</sup> 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

<sup>1</sup> 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

Time	Observation Angle, degrees	Entrance Angle, degrees	Specific Luminance (mcd/sq m/lx)	
			White	Yellow
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.

(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.

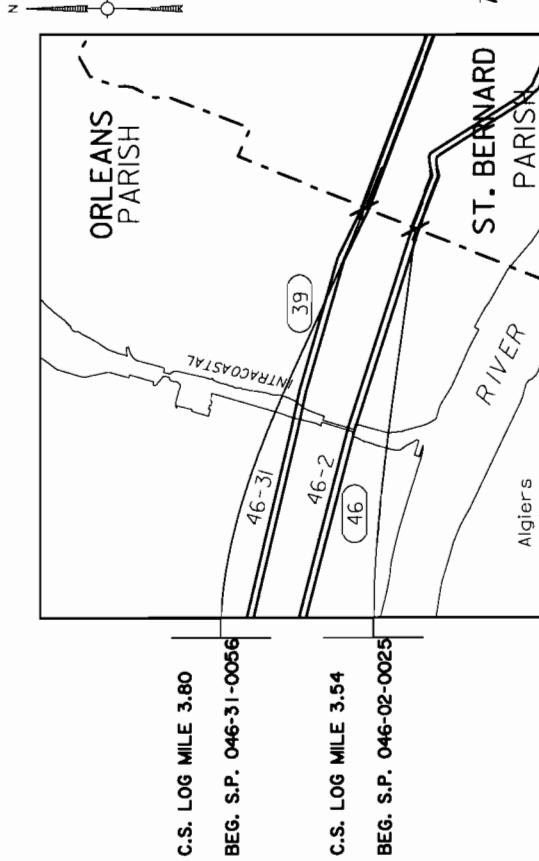
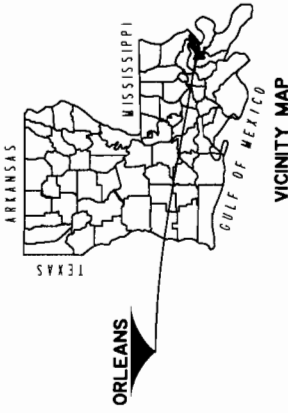
Delete the sixth paragraph of Heading (a), Pedestal Support Signal Poles, and substitute the following.

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. 595.

STANDARD	PLANS
DESCRIPTION	REVISION DATE
EC-01	10-1-08
PM-01 (4 SHTS.)	1-21-98

STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION  
PLANS OF PROPOSED  
**STATE HIGHWAY**

STATE PROJECT NOS. 046-02-0025 & 046-31-0056  
JACKSON BARRACKS MEDIAN CROSSOVERS  
ORLEANS PARISH  
LA 46 & LA 39



TRAFFIC DATA  
2009 A.D.T. = 16,665  
2019 A.D.T. = 18,410  
D = 60%  
K = 10%  
T = 16%

TYPE OF CONSTRUCTION:  
MEDIAN CROSSOVER WIDENING,  
STRIPING AND RELATED WORK



CIVIL ENGINEER  
7/8/09

RECOMMENDED FOR APPROVAL

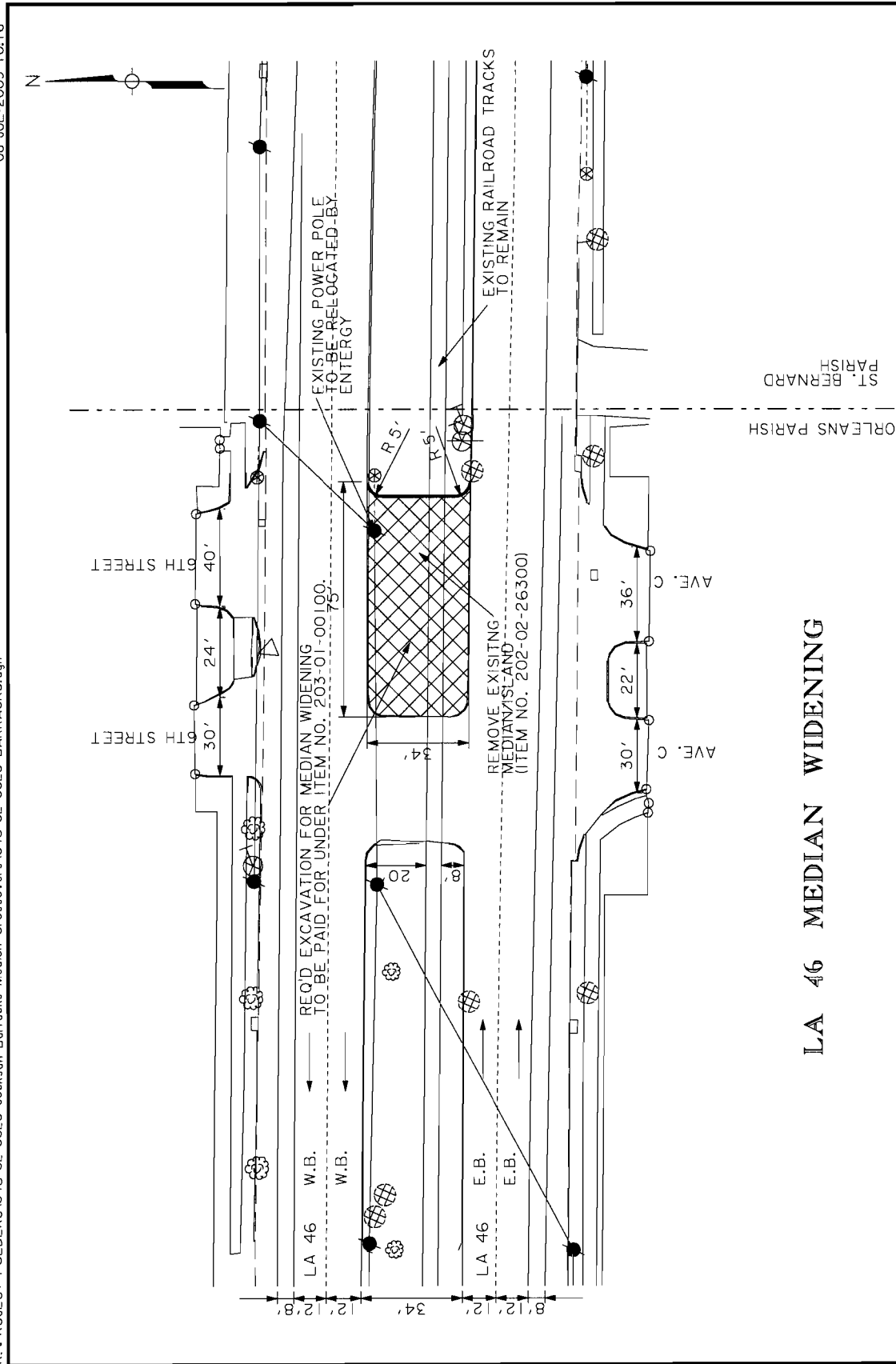
W. Branton 07/08/09  
ASSISTANT DISTRICT 02 ADMINISTRATOR-ENGINEERING

DISTRICT 02 ADMINISTRATOR  
7/8/09  
DATE

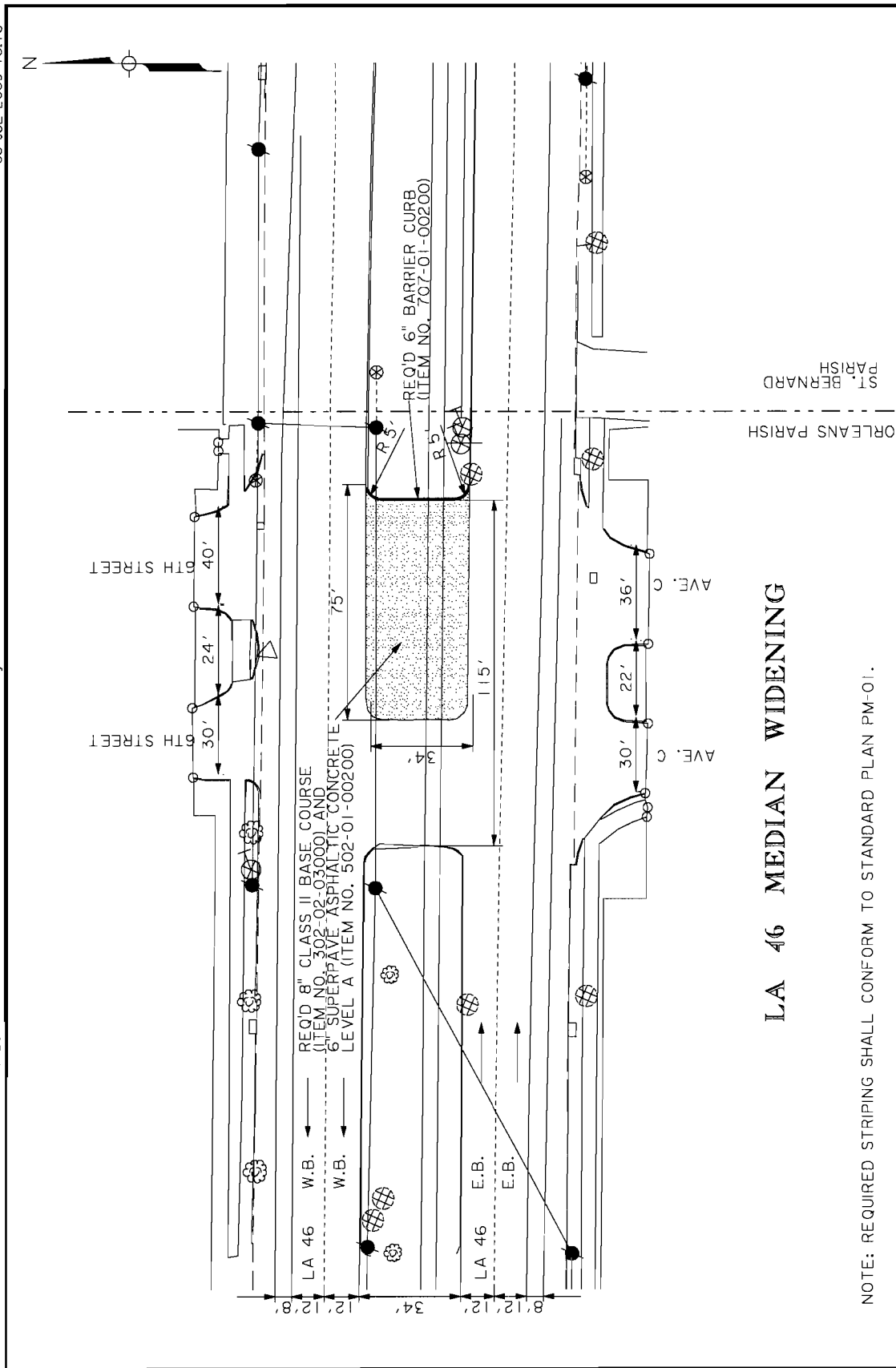
NOTE:  
THE 2006 LOUISIANA DOTD STANDARD  
SPECIFICATIONS FOR ROADS AND BRIDGES,  
AS AMENDED BY THE PROJECT SPECIFICATIONS,  
SHALL GOVERN ON THIS PROJECT.

JACKSON BARRACKS MEDIAN CROSSOVERS		ORLEANS		ORLEANS	
TITLE SHEET		PARISH		FEDERAL PROJECT	
DISTRICT 02 DESIGN		DESIGNED CHECKED		STATE PROJECT	
NO.		DATE		BY	
REVISION DESCRIPTION		DATE		SHEET	
NO.		DATE		BY	
SHEET NO.		I		046-02-0025	





[illegible]





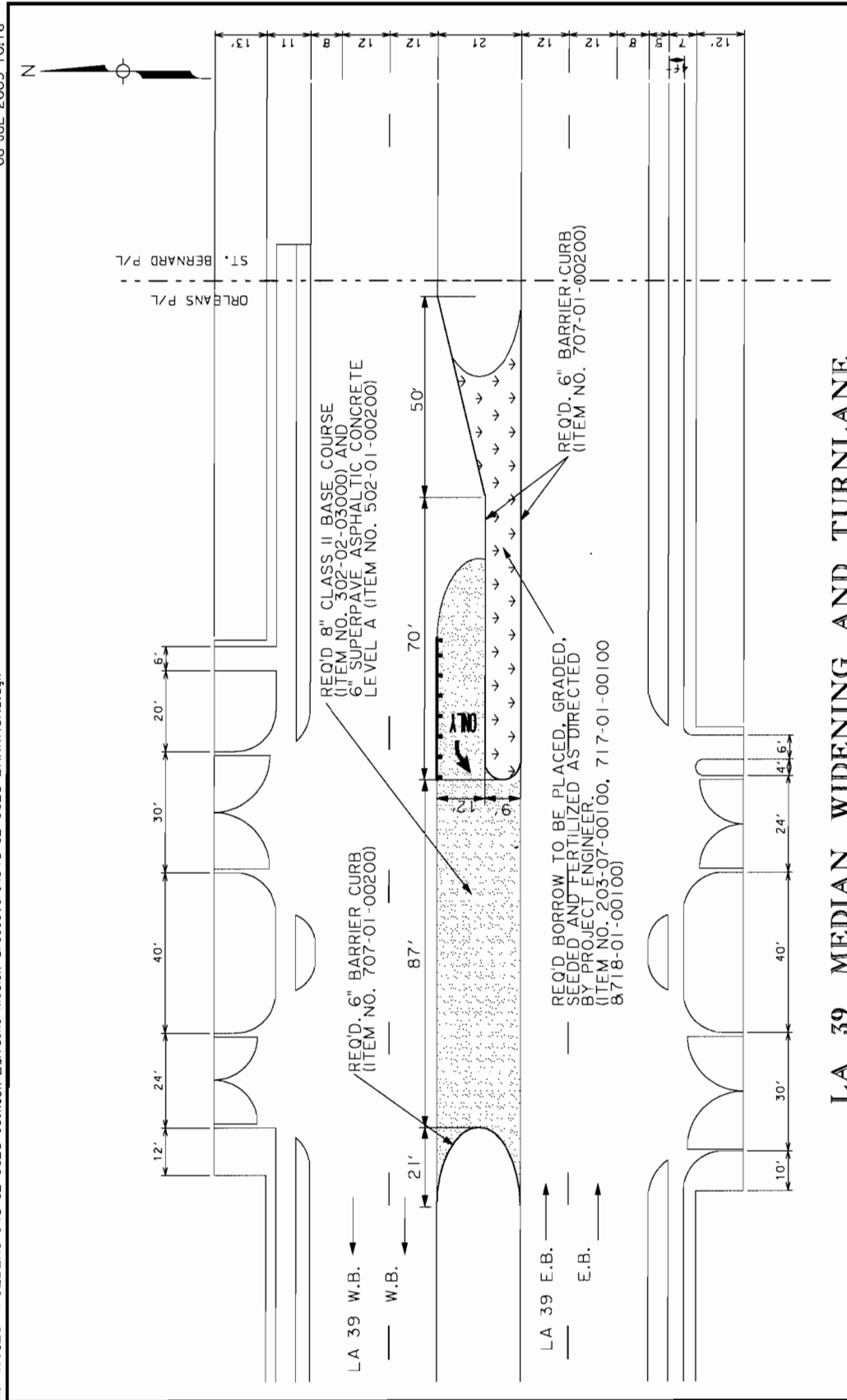
NOTE: REQUIRED STRIPING SHALL CONFORM TO STANDARD PLAN PM-01.

# LA 46 MEDIAN WIDENING

				<p><b>JACKSON BARRACKS MEDIAN CROSSEVERS</b></p>		<p>PLAN SHEET</p>	
<p>DISTRICT 02 DESIGN</p>		<p>NO. DATE</p>		<p>REVISION DESCRIPTION</p>		<p>BY SHEET</p>	
<p>DESIGNED CHECKED</p>		<p>PARISH ORLEANS</p>		<p>FEDERAL PROJECT</p>		<p>STATE PROJECT</p>	
<p>DATE</p>		<p>DATE</p>		<p>DATE</p>		<p>DATE</p>	
<p>SHEET NO.</p>		<p>ORLEANS</p>		<p>046-02-0025</p>		<p>2a</p>	



	<p><b>JACKSON BARRACKS</b></p> <p><b>MEDIAN CROSSOVERS</b></p>		NO. _____ DATE _____		REVISION DESCRIPTION _____		BY _____ SHEET _____		
			DESIGNED CHECKED _____		PARISH _____		ORLEANS _____		
			DETAILED CHECKED _____		FEDERAL PROJECT _____				
			DATE _____		STATE PROJECT _____		046-02-0025		
<p>PLAN SHEET</p>									

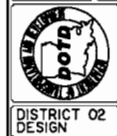


NOTE: ALL STRIPING NOT SHOWN FOR CLARITY. REQUIRED STRIPING SHALL CONFORM TO STANDARD PLAN PM-01. CONTRACTOR SHALL COORDINATE WITH DISTRICT TRAFFIC OPERATIONS ENGINEER.

											
DISTRICT 02 DESIGN											
JACKSON BARRACKS MEDIAN CROSSOVERS											
PLAN SHEET											
NO.		DATE		REVISION DESCRIPTION						BY	
				DESIGNED CHECKED				PARISH		ORLEANS	
				DETAILED CHECKED				FEDERAL PROJECT			
				DATE				STATE PROJECT		046-02-0025	
				SHEET NO.				2c			

## GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL PROVIDE FOR AND MAINTAIN THROUGH AND LOCAL TRAFFIC AT ALL TIMES AND SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH TRAFFIC AND BUSINESSES.
2. CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES. ANY MATERIAL DEPOSITED IN ANY DRAINAGE FEATURE (DITCHES, CROSSEDRAINS, ETC.) DURING CONSTRUCTION SHALL BE CLEANED OUT BEFORE FINAL ACCEPTANCE. SEE SECTION 105.15 AND 701.10(b) OF THE 2006 LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
3. CONTRACTOR SHALL CONTACT AND COORDINATE WORK WITH ALL UTILITIES LOCATED IN PROJECT AREA. CONTRACTOR SHALL PROVIDE 14 DAYS NOTICE TO UTILITY COMPANIES PRIOR TO BEGINNING WORK. ANY DAMAGE DONE TO UTILITIES SHALL BE REPAIRED AT NO COST TO THE DEPARTMENT. SEE SECTION 107.20 OF THE 2006 LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
4. CONTRACTOR SHALL COORDINATE ALL WORK WITH RAILROAD. A REPRESENTATIVE OF THE RAILROAD SHALL BE PRESENT DURING ALL CONSTRUCTION ACTIVITY. CONTACT LAVON SMITH (504) 232-4906.
5. PAVING OVER RAILROAD CROSSING SHALL BE AS DIRECTED BY RAILROAD REPRESENTATIVE. CONTACT LAVON SMITH (504) 232-4906.
6. ALL STRIPING SHALL CONFORM TO DOTD STD. PLAN PM-01.
7. CURB REMOVAL SHALL BE INCLUDED IN ITEM NO. 202-02-26300 REMOVAL OF MEDIAN/ISLAND.

DISTRICT 02  
DESIGN

**JACKSON BARRACKS  
MEDIAN CROSSEVERS**



GENERAL CONSTRUCTION NOTES

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED CHECKED	PARISH	ORLEANS
DETAILED CHECKED	FEDERAL PROJECT	
DATE	STATE PROJECT	046-02-0025
BY	SHEET	2d

SHEET  
NO.

2d



## Summary Of Estimated Quantities

Project ID: 046-02-0025 State Project Number: 046-02-0025

Federal Project Number:

Project Description: JACKSON BARRACKS MEDIAN CROSSEOVERS

Item No.	Description	Supplemental Description	Alternate Set Member	Quantity	Units
General Items					
202-02-00010	Removal	of Existing Tree		1.000	EACH
202-02-26300	Removal of Median / Island			265.000	SQYD
203-01-00100	General Excavation			103.000	CUYD
302-02-03000	Class II Base Course (8" Thick)			265.000	SQYD
502-01-00200	Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous			87.500	TON
707-01-00200	Concrete Curb (Barrier)			40.000	LNFT
713-01-00100	Temporary Signs and Barricades			1.000	LUMP
727-01-00100	Mobilization			1.000	LUMP
731-02-00100	Reflectorized Raised Pavement Markers			25.000	EACH
732-02-01000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 40 mil)			0.303	MILE
732-03-01000	Plastic Pavement Striping (Broken Line) (4" Width) (Thermoplastic 40 mil)			0.152	MILE
732-05-00100	Removal of Existing Markings			0.100	MILE
740-01-00100	Construction Layout			1.000	LUMP
NS-713-00001	Dynamic Message Sign Unit			1.000	EACH

() Item will be bid as lump sum

Notes:

<div>8</div> <div>8</div>
---------------------------



7/8/2009

## Summary Of Estimated Quantities

Page: 3a

Project ID: 046-31-0056 State Project Number: 046-31-0056

Federal Project Number:

Project Description: JACKSON BARRACKS MEDIAN CROSSEOVERS

Item No.	Description	Supplemental Description	Alternate	
			Set	Member
		General Items	Quantity	Units
202-02-06140	Removal of Curbs (Concrete)		52.000	LNFT
202-02-26300	Removal of Median / Island		375.000	SQYD
203-01-00100	General Excavation		120.000	CUYD
203-07-00100	Borrow (Vehicular Measurement)		100.000	CUYD
302-02-03000	Class II Base Course (8" Thick)		300.000	SQYD
502-01-00200	Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous		198.000	TON
707-01-00200	Concrete Curb (Barrier)		310.000	LNFT
713-01-00100	Temporary Signs and Barricades		1.000	LUMP
717-01-00100	Seeding		0.720	LB
718-01-00100	Fertilizer		24.000	LB
727-01-00100	Mobilization		1.000	LUMP
730-12-00100	Removal and Storage of Light Poles (Ground Mounted)	40' Aluminum	2.000	EACH
730-13-00100	Removal and Disposal of Light Pole Foundation		2.000	EACH
730-14-00100	Removal and Disposal of Luminaires		2.000	EACH
731-02-00100	ReflectORIZED Raised Pavement Markers		31.000	EACH
732-01-01040	Plastic Pavement Striping (8" Width) (Thermoplastic 90 mil)		35.000	LNFT
732-01-01080	Plastic Pavement Striping (24" Width) (Thermoplastic 90 mil)		60.000	LNFT

Notes:

"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"



7/8/2009

## Summary Of Estimated Quantities

Page: 3b

Project ID: 046-31-0056 State Project Number: 046-31-0056

Federal Project Number:

Project Description: JACKSON BARRACKS MEDIAN CROSSEOVERS

Item No.	Description	Supplemental Description	Alternate Set Member	Quantity	Units
732-02-01000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 40 mil)			0.303	MILE
732-03-01000	Plastic Pavement Striping (Broken Line) (4" Width) (Thermoplastic 40 mil)			0.152	MILE
732-04-01080	Plastic Pavement Legends and Symbols (Arrow - Left Turn)			1.000	EACH
732-05-00100	Removal of Existing Markings			0.100	MILE
740-01-00100	Construction Layout			1.000	LUMP
NS-713-00001	Dynamic Message Sign Unit			1.000	EACH

() Item will be bid as lump sum

Notes:

"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"



7/8/2009

## Summary Of Estimated Quantities

Page: 3c

Proposal ID: 046-02-0025 State Project Number: 046-02-0025 &amp; 046-31-0056

Federal Project Number:

Proposal Description: JACKSON BARRACKS MEDIAN CROSSEOVERS

Item No.	Description	Supplemental Description	Alternate Set Member	Quantity	Units
General Items					
202-02-00010	Removal	of Existing Tree		1.000	EACH
202-02-06140	Removal of Curbs (Concrete)			52.000	LNFT
202-02-26300	Removal of Median / Island			640.000	SQYD
203-01-00100	General Excavation			223.000	CUYD
203-07-00100	Borrow (Vehicular Measurement)			100.000	CUYD
302-02-03000	Class II Base Course (8" Thick)			565.000	SQYD
502-01-00200	Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous			285.500	TON
707-01-00200	Concrete Curb (Barrier)			350.000	LNFT
713-01-00100	Temporary Signs and Barricades			1.000	LUMP
717-01-00100	Seeding			0.720	LB
718-01-00100	Fertilizer			24.000	LB
727-01-00100	Mobilization			1.000	LUMP
730-12-00100	Removal and Storage of Light Poles (Ground Mounted)	40' Aluminum		2.000	EACH
730-13-00100	Removal and Disposal of Light Pole Foundation			2.000	EACH

Notes:

ELECTRONIC COPY - NOT FOR BID SUBMITTAL





## Summary Of Estimated Quantities

Proposal ID: 046-02-0025 State Project Number: 046-02-0025 &amp; 046-31-0056

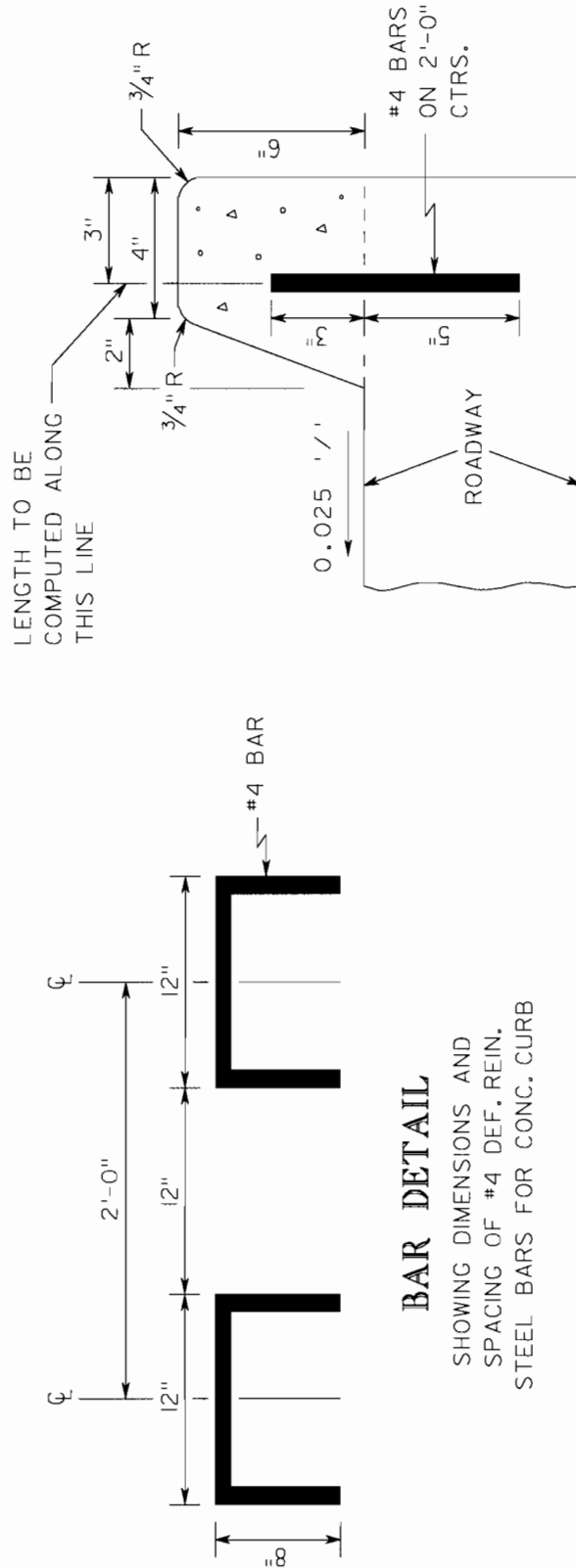
Federal Project Number:

Proposal Description: JACKSON BARRACKS MEDIAN CROSSEOVERS

Item No.	Description	Supplemental Description	Alternate Set	Member	Quantity	Units
730-14-00100	Removal and Disposal of Luminaires				2.000	EACH
731-02-00100	ReflectORIZED Raised Pavement Markers				56.000	EACH
732-01-01040	Plastic Pavement Striping (8" Width) (Thermoplastic 90 mil)				35.000	LNFT
732-01-01080	Plastic Pavement Striping (24" Width) (Thermoplastic 90 mil)				60.000	LNFT
732-02-01000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 40 mil)				0.606	MILE
732-03-01000	Plastic Pavement Striping (Broken Line) (4" Width) (Thermoplastic 40 mil)				0.304	MILE
732-04-01080	Plastic Pavement Legends and Symbols (Arrow - Left Turn)				1.000	EACH
732-05-00100	Removal of Existing Markings				0.200	MILE
740-01-00100	Construction Layout				1.000	LUMP
NS-713-00001	Dynamic Message Sign Unit				2.000	EACH


Notes:

"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"



(BARRIER TYPE)

NOTE: CONCRETE CURB SHALL BE DOWELED INTO PAVEMENT  
AS SHOWN ON 2' CENTERS. PRICE SHALL BE INCLUDED  
IN ITEM 707-01-00200.

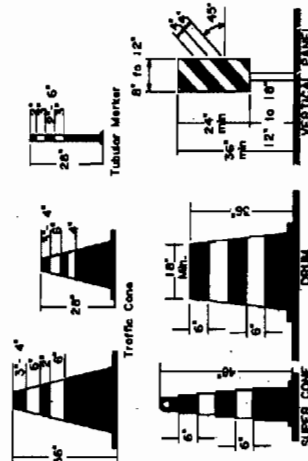
				<b>JACKSON BARRACKS MEDIAN CROSSEOVERS</b>				NO. DATE REVISION DESCRIPTION		DESIGNED CHECKED	PARISH ORLEANS	SHEET NO. 4
DISTRICT 02 DESIGN		CURB DETAIL		FEDERAL PROJECT		STATE PROJECT		DATE SHEET		046-02-0025		

**GENERAL PROVISIONS**

- All Temporary Traffic Control Devices used shall be in accordance with the LQDOTD Standard Specifications for Roads and Bridges, the Manual on Uniform Traffic Control Devices (MUTCD), and shall meet the National Cooperative Highway Research Program (NCHRP) 350 for Level 3 requirements.
- Temporary Traffic Control shall be in accordance with the LQDOTD Standard Specifications for Roads and Bridges and when applicable the LQDOTD Qualified Products List (QPL).
- No temporary traffic controls shall be erected without the approval of the Project Engineer and with work in place to begin, unless they are covered.
- No lane closures, lane shifts, diversions, or detours shall occur without the authorization of the Project Engineer.
- Responsibility is hereby placed upon the contractor for the installation, maintenance, and operation of all temporary traffic control devices called for in these plans or required by the Project Engineer for the protection of the traveling public as well as of Department and construction personnel.
- The contractor shall be responsible for the maintenance of all permanent signs and pavement markings left in place as essential to the safe movement and guidance of traffic within the project limits.
- The District Traffic Operations Engineer (DTOE) shall serve as the authorized observer to the Project Engineer for all Traffic Control operations.
- "Road Work Stop XX" signs shall be required on all projects equal to or greater than 2 miles and located at the beginning of the project unless otherwise noted. The signs on the sign shall be placed to the nearest whole mile. The distance shall be a minimum 35/650' unless otherwise noted.
- Warning signs used for lane closures or lane shifts in which the roadway shall be returned to full public use within 12 hours or less may be placed on NCHRP350 approved portable sign frames.
- If the spacing on the plans need to be altered, the new spacings need to be approved by the Project Engineer.

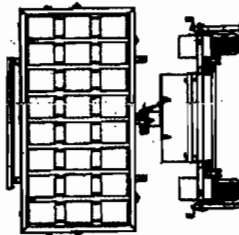
the following details were:

- The following number may be used:
  - Tapered Aerials, Vertical Panels, Cones, Drums, and Super Cones.
  - Drums of standard spacing and Super Cones of standard spacing only should be used in taper arrays.
  - The horizontal spacing during deployment must be equal to the spacing of the standard array.
  - Only drums can be used in taper, during deployment.
  - The spacing of channelling devices in taper should not exceed a distance in feet equal to 1.0 times the posted speed limit in mph (with a maximum of 50 feet).
  - The spacing of channelling devices in a taper should not exceed a distance in feet equal to 2.0 times the posted speed limit in mph (with a maximum of 100 feet) unless otherwise noted.
  - Retroreflective material pattern used on super cones should match that used on drums.
  - 25" traffic cones are not allowed on:
    - 1) Interstates, 2) Highways with speeds greater than 40 mph, 3) During Night time operations; 1) 25" and 36" cones are not allowed, 2) Drums are the only device allowed on the taper.



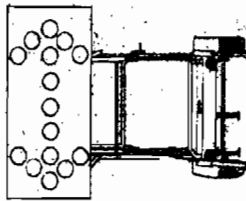
### PORTABLE CHANGEABLE MESSAGE SIGNS

- When working within the traveled way, including shoulders and auxiliary lanes, Changeable Message Signs (CMS) shall be used on all Interstate highways and on other highways with ADT greater than 20,000 cars per day (if available).
- When working on the right hand side of the road, retroreflective TTC devices, CMS will be used for each.
- When used in advance of a lane closure or a lane shift, the CMS should be placed on the right hand side of the road a minimum distance of 2 miles in advance of the taper for Interstates and to be determined by the Engineer on other highways.
- If vehicles are queuing beyond the 2 mile CMS, an additional CMS should be placed on the right hand side of the road approximately 5 miles in advance of the taper for Interstates.
- CMS messages shall be approved by the District Traffic Operations Engineer (DTOE).
- When Portable Changeable Message signs are not being used, they should be removed. If not removed, they should be shielded by guardrail or barriers or if the previous two options are not feasible, they should be decorated with retroreflective TTC devices.



### FLASHING ARROW PANELS

- Flashing Arrow Pins should be used for long closures on all facilities with 2 or more lanes in a single direction and a speed limit greater than 35 mph.
- When used, flashing arrow pins should be located on the shoulder at the beginning of the taper.
- Where the shoulder width is limited, the flashing arrow pins should be placed within the closed lane as close to the beginning of the taper as practical.
- All flashing Arrow Pins used on high speed roadways (45 mph and greater) should be of a "B" type. C.
- Minimum length of Arrow Pins are as follows: used, minimum 18 inches; if Arrow Pins are not being used, they should be 24 inches.
- Arrow Pins should be secured by hardware or if the pins are to be removed by hand, they should be debanded with nonreflective TTC deband.

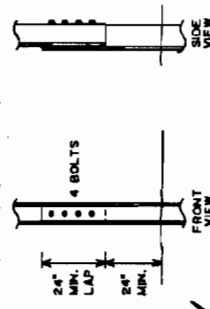


**LIGHTING (see OPL)**

- When used for emergency clearance, flashing red at horridities that are placed in a closed lane or that stand across a highway. Type B High Intensity Lights shall be used per lane closed in road areas. In urban areas, Type A Low Intensity Lights may be used where adequate ambient lighting is available.
- One Type B High Intensity Light shall be used to supplement the first step (or pair of steps) that shows warnings about lane closures during night-time operations.
- Type C steady burn light shall be used on all obnoxious devices in the upper as well as the first two devices in the lowest, for night use.

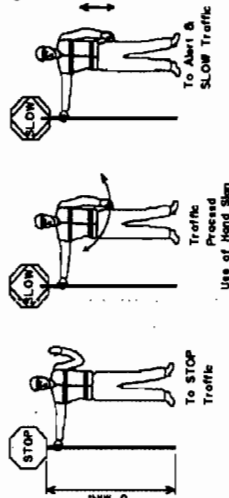
### ALLOWABLE LAP SPLICE FOR U-CHANNEL POST

- U-Channel posts may be spliced where long lengths are required. The upper section shall overlap the lower section by at least 24 inches. The bottom edge of the upper section at the splice shall be a minimum of 24 inches above the ground. The spliced sections shall be secured with at least four  $\frac{1}{4}$ " inch diameter lag bolts spaced evenly along the splice.



50300

- All flaggers must be qualified. The contractor shall be responsible for training or supplying flaggers who have been certified to perform flagging duties. A Qualified Flagger is one who has completed courses such as those offered by the American Traffic Safety Services Association (ATSSA), The Associated General Contractors of America (AGC) or other courses approved by the Louisiana DOTD's Work Zone Task Force. The contractor shall be responsible for getting the flagger courses approved. When utilized, a flagger shall use a minimum 18 inch octagonal shape sign on a minimum 6' x 48" square pole and wear ANSI Class 2 Lime Green vest with reflective stripes and ANSI Class 1 Lime Green pants during night operations. In all other operations, the flagger must wear from the flagger courses, orange pants.



### TYPE III BARRICADES

- All barricades shall use Type 3 High Intensity Sheeting on both sides of the barricade.
- All Type II Barricades shall be a minimum of 8 feet in length and must meet NCJHP 350 requirements.
- When signs and lights are to be mounted to a barricade, they must meet NCJHP 350 requirements.

**MUTCD Website:**  
<http://mutcd.fhwa.dot.gov/>

**TEMPORARY TRAFFIC CONTROL  
GENERAL NOTES SHEET**

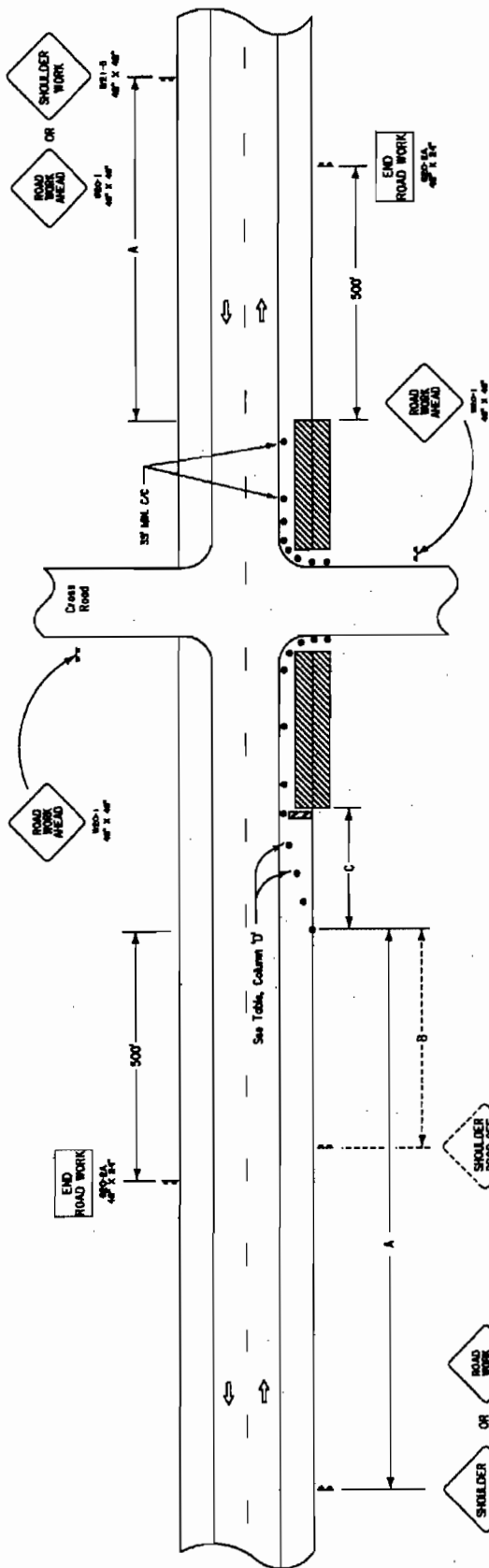


TC-00

REVISION DESCRIPTION

DATE	SHEET
BY	

STATE PROJECT	046-02-0025
------------------	-------------



- LEGEND**
- Traffic Sign
  - Channelizing Devices
  - ▨ Work Area
  - ▩ Type III Barricades

SPEED LIMIT	Spacing		Shoulder Closure Taper	
	A'	B'	Minimum Taper Length	Maximum Device Spacing
35 mph	500'	250'	100'	25'
45 mph	1000'	350'	200'	45'
≥ 55 mph	1500'	500'	250'	50'

If horizontal curve radius is less than 300', device spacing shall be 25'.

**NOTES**

THIS SHEET SHALL BE USED WITH THE 'TEMPORARY TRAFFIC CONTROL' GENERAL NOTES SHEET (TC-007).

1. THIS LAYOUT REPRESENTS TRAFFIC CONTROLS REQUIRED FOR WORKERS AND EQUIPMENT OPERATING WITHIN THE CLEAR ZONE FOR MORE THAN 1 HOUR, LESS THAN 1 HOUR, SEE FIG. TA-4 OF THE MUTCD. PORTABLE SIGNS MAY BE USED FOR WORK LASTING LESS THAN 3 DAYS.

2. NO SIGNS OR BARRICADES ARE REQUIRED FOR EQUIPMENT OPERATING OR WORK IN PROGRESS OUTSIDE THE CLEAR ZONE.

3. SIGNS AND BARRICADES SHALL BE COVERED OR REMOVED DURING NONWORKING HOURS UNLESS A DROP-OFF OR PHYSICAL OBSTRUCTION REMAINS WITHIN THE CLEAR ZONE.

4. TRAFFIC CONES MAY BE USED AS CHANNELIZING DEVICES ALONG THE WORK AREA DURING DAYLIGHT HOURS ONLY.

5. WORK OR EQUIPMENT CONFINED TO A SPOT LOCATION (LESS THAN 200 FEET) SHALL BE MARKED BY CHANNELIZING DEVICES SPACED AT 25 FEET OR BY A VEHICLE WITH A YELLOW REVOLVING LIGHT OR YELLOW STROBE LIGHT VISIBLE TO ONCOMING TRAFFIC. WORK EXTENDING MORE THAN 200 FEET OF ROADWAY LENGTH SHALL BE MARKED WITH APPROPRIATE DEVICES SPACED AS NOTED IN THE TABLE.

**6. SHOULDER DROP-OFFS**

A. WHEN A SHOULDER DROP-OFF IS GREATER THAN 2' BUT LESS THAN 6' EXISTS, A 'SHOULDER DROP-OFF' SIGN WILL FOLLOW THE 'SHOULDER WORK' SIGN. WHEN THE DROP-OFF EXCEEDS 6', THE 'SHOULDER DROP-OFF' SIGN SHALL BE REPLACED BY A 'NO SHOULDER' SIGN.

B. IF THE SPEED LIMIT IS GREATER THAN 45 MPH AND THE DROP-OFF IS 10' OR GREATER WITHIN 2' OF THE TRAVEL LANE DURING NONWORKING HOURS, A PORTABLE BARRIER SHALL BE USED.

7. A TEMPORARY EDGE LINE OR CHANNELIZING DEVICE SHALL BE PLACED AT THE PAVEMENT EDGE ADJACENT TO THE DROP-OFF DURING NONWORKING HOURS WHEN THE DROP-OFF IS GREATER THAN 2'.

8. SPEED LIMIT IN THE ABOVE TABLE REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE CONSTRUCTION. IF WORKERS ARE PRESENT WITHIN 2' OF TRAVEL LANE, SPEED LIMIT MAY NEED TO BE REDUCED.

9. WHEN A WORK AREA HAS BEEN ESTABLISHED ON ONE SIDE OF THE ROADWAY ONLY, THERE SHALL BE NO CONFLICTING OPERATIONS OR PARKING ON THE OPPOSITE SHOULDER WITHIN 500 FEET OF THE WORK AREA.

10. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.

11. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.

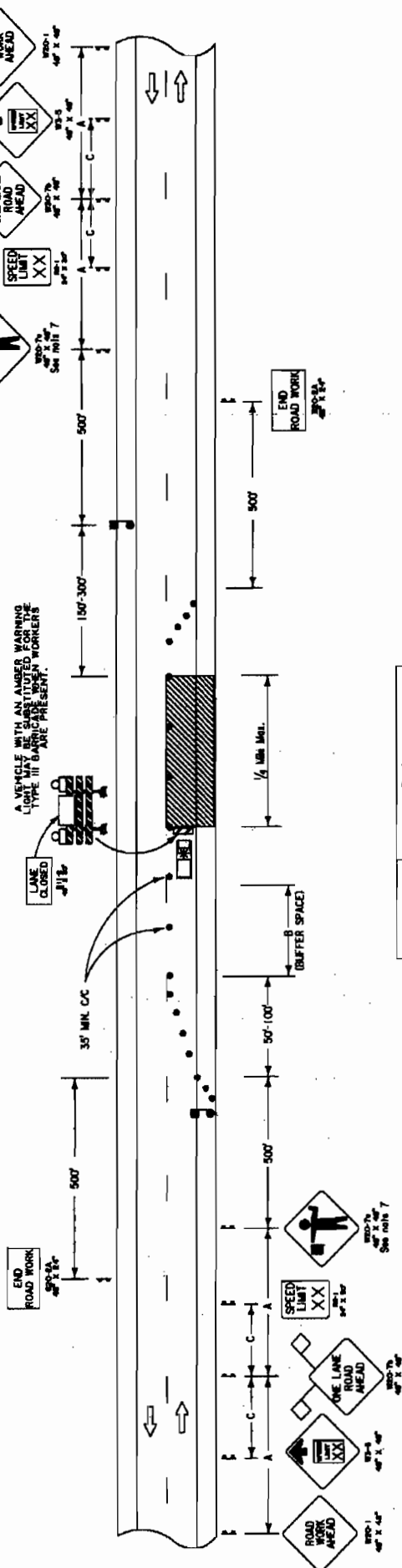
12. TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE AT A 1000' INTERVAL. TYPE II BARRICADES SHALL BE PLACED AT THE END OF EACH CLOSED LANE. TYPE II BARRICADES ARE ALSO REQUIRED BEFORE EACH OR GROUP OF UNFILLED HOLES OR HOLES FILLED WITH TEMPORARY MATERIAL, OR WHERE UNCURED CONCRETE EXISTS.



SHEET NO. 5a		ORLEANS		PARISH		FEDERAL PROJECT		STATE PROJECT	
DESIGNED CHECKED		E. CHAPVILLE J. COLVIN		CHECKED		D. HOFMEIER J. COLVIN		DATE 04/28/2008	
NO.		DATE		REVISION DESCRIPTION		BY		SHEET	
TC-01								046-02-0025	



**TRAFFIC CONTROL LAYOUT**  
FOR WORK LESS THAN 15'  
FROM THE TRAVELED LANE



SPEED LIMIT (See note 5)	Spacing		
	"A"	"B"	"C"
35 mph	500'	250'	N/A
45 mph	1000'	360'	500'
55 mph	1500'	495'	800'

SIGN SPACING TO BE ADJUSTED  
FOR HORIZONTAL & VERTICAL CURVES.

# NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-01)".

1. CONDITIONS REPRESENTED ARE FOR WORK WHICH REQUIRES CLOSING TRAFFIC LANE DURING DAYLIGHT HOURS ONLY. PORTABLE SIGNS MAY BE USED FOR WORK LASTING LESS THAN 3 DAYS.

2. WHEN A WORK AREA HAS BEEN ESTABLISHED ON ONE SIDE OF THE ROADWAY ONLY, THERE SHALL BE NO PARKING ON THE OPPOSITE SHOULDER WITHIN 500 FEET OF THE WORK AREA.

3. CHANNELIZING DEVICES MAY BE PLACED UP TO 2' BEYOND CENTERLINE ONLY AT SPECIFIC LOCATIONS WHERE ACTUAL WORK ACTIVITY IS TAKING PLACE. A 10' MINIMUM TRAVELED LANE SHOULD BE MAINTAINED WHERE PRACTICAL. CHANNELIZING DEVICES SHALL BE RETURNED TO THE CENTERLINE WHEN THE WORK ACTIVITY HAS PASSED.

4. SPACING OF CHANNELIZING DEVICES IN THE TAPER SHOULD BE NO MORE THAN 20'. A MINIMUM OF 5 CHANNELIZING DEVICES ARE TO BE USED IN THE TAPER.

5. SPEED LIMIT REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE CONSTRUCTION.

6. TO PREVENT VEHICLES FROM ENTERING THE WORK AREA AGAINST THE FLOW OF TRAFFIC, AN ADDITIONAL FLAGGER SHALL BE STATIONED AT EACH INTERSECTION, MAJOR DRIVEWAY, RAILROAD CROSSING OR CROSSING WITHIN THE WORK AREA.

7. VISUAL OR RADIO CONTACT SHALL BE REQUIRED BETWEEN FLAGGERS AT ALL TIMES. THE FLAGGER SHALL BE VISIBLE FROM FLAGGER SIGN.

8. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED BY THE CONTRACTOR.

9. MINIMUM CONSTRUCTION SIGNING ANY ADDITIONAL SIGNS SHOWN IN THIS SHEET SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND REMOVED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 715-01.

10. TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE AT 1000' SPACING. TYPE III BARRICADES SHALL BE MAINTAINED AT ALL TIMES. BARRICADES OF UNFILLED HOLES OR HOLES FILLED WITH TEMPORARY MATERIAL, OR WHERE UNCURED CONCRETE EXISTS.

11. NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIALS SHALL OCCUR WITHIN THE BUFFER SPACE.



SHEET NO. 5b		PARISH ORLEANS	
DESIGNED	CHECKED	FEDERAL PROJECT	STATE PROJECT
DATE	DATE	046-02-0025	
REVISION DESCRIPTION		BY	
NO.		DATE	
TRAFFIC ENGINEERING		TC-02	

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



**LETTER BID PROPOSAL  
FOR**

**STATE PROJECT NO. 046-02-0025 & 046-31-0056  
JACKSON BARRACKS MEDIAN CROSSOVERS  
ROUTE LA 46 & LA 39  
ORLEANS PARISH**

## 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) \_\_\_\_\_ and  
\_\_\_\_\_, 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 NO.046-02-0025 AND 046-31-0056, JACKSON BARRACKS MEDIAN CROSSEOVERS, located in ORLEANS PARISH, ROUTES LA 46 AND LA 39**, 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)	If a Joint Venture, Second Partner
By _____	By _____
Authorized Officer-Owner-Partner	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



7/8/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 1

Contract ID: 046-02-0025

Project(s): 046-02-0025, 046-31-0056

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0001	202-02-00010	Removal of Existing Tree	1.000	EACH
				Dollars
				Cents
0002	202-02-06140	Removal of Curbs (Concrete)	52.000	LNFT
				Dollars
				Cents
0003	202-02-26300	Removal of Median / Island	640.000	SQYD
				Dollars
				Cents
0004	203-01-00100	General Excavation	223.000	CUYD
				Dollars
				Cents
0005	203-07-00100	Borrow (Vehicular Measurement)	100.000	CUYD
				Dollars
				Cents
0006	302-02-03000	Class II Base Course (8" Thick)	565.000	SQYD
				Dollars
				Cents
0007	502-01-00200	Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous	285.500	TON
				Dollars
				Cents
0008	707-01-00200	Concrete Curb (Barrier)	350.000	LNFT
				Dollars
				Cents

**"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"**





7/8/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 2

Contract ID: 046-02-0025

Project(s): 046-02-0025, 046-31-0056

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0009	713-01-00100	Temporary Signs and Barricades		LUMP SUM
				Dollars
				Cents
0010	717-01-00100	Seeding	0.720	LB
				Dollars
				Cents
0011	718-01-00100	Fertilizer	24.000	LB
				Dollars
				Cents
0012	727-01-00100	Mobilization		LUMP SUM
				Dollars
				Cents
0013	730-12-00100	Removal and Storage of Light Poles (Ground Mounted) 40' Aluminum	2.000	EACH
				Dollars
				Cents
0014	730-13-00100	Removal and Disposal of Light Pole Foundation	2.000	EACH
				Dollars
				Cents
0015	730-14-00100	Removal and Disposal of Luminaires	2.000	EACH
				Dollars
				Cents
0016	731-02-00100	Reflectorized Raised Pavement Markers	56.000	EACH
				Dollars
				Cents

"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"



7/8/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 3

Contract ID: 046-02-0025

Project(s): 046-02-0025, 046-31-0056

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0017	732-01-01040	Plastic Pavement Striping (8" Width) (Thermoplastic 90 mil)	35.000	LNFT
				Dollars
				Cents
0018	732-01-01080	Plastic Pavement Striping (24" Width) (Thermoplastic 90 mil)	60.000	LNFT
				Dollars
				Cents
0019	732-02-01000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 40 mil)	0.606	MILE
				Dollars
				Cents
0020	732-03-01000	Plastic Pavement Striping (Broken Line) (4" Width) (Thermoplastic 40 mil)	0.304	MILE
				Dollars
				Cents
0021	732-04-01080	Plastic Pavement Legends and Symbols (Arrow - Left Turn)	1.000	EACH
				Dollars
				Cents
0022	732-05-00100	Removal of Existing Markings	0.200	MILE
				Dollars
				Cents
0023	740-01-00100	Construction Layout		LUMP SUM
				Dollars
				Cents
0024	NS-713-00001	Dynamic Message Sign Unit	2.000	EACH
				Dollars
				Cents

**"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"**



7/8/2009

Louisiana Department of Transportation and Development

Proposal Schedule of Items

Page: 4

Contract ID: 046-02-0025

Project(s): 046-02-0025, 046-31-0056

Section: 1

Total: \_\_\_\_\_

Total Bid: \_\_\_\_\_

"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"

# 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 NO(S).

046-02-0025 & 046-31-0056

FEDERAL AID PROJECT NO(S).

NAME OF PROJECT

JACKSON BARRACKS MEDIAN CROSSEOVERS

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

"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"

STATE PROJECT NO(S). 046-02-0025 & 046-31-0056

## **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 BASE BID \$ \_\_\_\_\_

IT IS AGREED THAT THIS TOTAL, DETERMINED BY THE BIDDER, IS FOR PURPOSES OF OPENING AND READING BIDS ONLY, AND THAT THE LOW BID FOR THIS PROJECT WILL BE DETERMINED FROM THE EXTENSION AND TOTAL OF THE BID ITEMS BY DOTD.

CS-14AA

08/06

**"ELECTRONIC COPY - NOT FOR BID SUBMITTAL"**