

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 5/01/2006

Control	0015-13-333
Project	IM 0353(255)
Highway	IH 35
County	TRAVIS

Ladies/Gentlemen:

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

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

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

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

You are required to acknowledge receipt of this addendum by entering the date, which appears at the top of this letter on the Addendum Acknowledgement Form, contained in your bid proposal.

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

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: IM 0353(255)

CONTROL: 0015-13-333

COUNTY: TRAVIS

LETTING: 05/10/2006

REFERENCE NO: 0501

PROPOSAL ADDENDUMS

- X PROPOSAL COVER
- _ BID INSERTS (SH. NO.:)
- X GENERAL NOTES (SH. NO.: C THRU M)

- _ SPEC LIST (SH. NO.:)
- _ SPECIAL PROVISIONS:)
- ADDED:

DELETED:

- _ SPECIAL SPECIFICATIONS:
- ADDED:

DELETED:

X OTHER: SEE CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

PROPOSAL COVER: REVISED THE WORKING DAYS FROM 56 TO 75

GENERAL NOTES: SHEETS C THRU M REVISED AND ADDED SHEETS N AND O, DUE TO REVISION TO ITEMS 8, 300, 354, 502, 504, 585, 688 AND 5010, ADDITION OF ITEMS 316, 341, 346, AND 354 & DUE TO SHIFTING.

PLAN SHEETS: 1, 2A THRU 2F REVISED, ADDED SHEET 2G, DUE TO ABOVE CHANGES.

Control	0015-13-333
Project	IM 0353(255)
Highway	IH 35
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PROPOSAL TO THE TEXAS TRANSPORTATION COMMISSION

2004 SPECIFICATIONS

WORK CONSISTING OF MILL, SC & OV NB & SB MLS & FRT RDS TRAVIS COUNTY, TEXAS

The quantities in the proposal are approximate. The quantities of work and materials may be increased or decreased as considered necessary to complete the work as planned and contemplated.

This project is to be completed in 75 working days and will be accepted when fully completed and finished to the satisfaction of the Executive Director or designee.

Provide a proposal guaranty in the form of a Cashier's Check, Teller's Check (including an Official Check) or Bank Money Order on a State or National Bank or Savings and Loan Association, or State or Federally chartered Credit Union made payable to the Texas Transportation Commission in the following amount:

ONE HUNDRED THOUSAND (Dollars) (\$100,000)

A bid bond may be used as the required proposal guaranty. The bond form may be detached from the proposal for completion. The proposal may not be disassembled to remove the bond form. The bond must be in accordance with Item 2 of the specifications.

Any addenda issued amending this proposal and/or the plans that have been acknowledged by the bidder, become part of this proposal.

By signing the proposal the bidder certifies:

1. the only persons or parties interested in this proposal are those named and the bidder has not directly or indirectly participated in collusion, entered into an agreement or otherwise taken any action in restraint of free competitive bidding in connection with the above captioned project.
2. in the event of the award of a contract, the organization represented will secure bonds for the full amount of the contract.
3. the signatory represents and warrants that they are an authorized signatory for the organization for which the bid is submitted and they have full and complete authority to submit this bid on behalf of their firm.
4. that the certifications and representations contained in the proposal are true and accurate and the bidder intends the proposal to be taken as a genuine government record.

• **Signed: ****

(1) _____ (2) _____ (3) _____

Print Name:

(1) _____ (2) _____ (3) _____

Title:

(1) _____ (2) _____ (3) _____

Company:

(1) _____ (2) _____ (3) _____

- Signatures to comply with Item 2 of the specifications.

**Note: Complete (1) for single venture, through (2) for joint venture and through (3) for triple venture.

* **When the working days field contains an asterisk (*) refer to the Special Provisions and General Notes.**

NOTICE TO CONTRACTORS

ANY CONTRACTORS INTENDING TO BID ON ANY WORK TO BE AWARDED BY THIS DEPARTMENT MUST SUBMIT A SATISFACTORY “AUDITED FINANCIAL STATEMENT” AND “EXPERIENCE QUESTIONNAIRE” AT LEAST TEN DAYS PRIOR TO THE LETTING DATE.

UNIT PRICES MUST BE SUBMITTED IN ACCORDANCE WITH ITEM 2 OF THE STANDARD SPECIFICATIONS OR SPECIAL PROVISION TO ITEM 2 FOR EACH ITEM LISTED IN THIS PROPOSAL.

GENERAL NOTE

Basis of Estimate

Item	Description	Rate **	Basis	Quantity
316	Surface Treatments One Course Surface Treatment Asph (CHFRS-2P) Aggr (TY B GR 4)	Total 0.28GAL/SY 1 CY/160 SY	SY 969094 SY 969094 SY	271346 GAL 6057 CY
341	Dense-Graded Hot-Mix Asphalt (QC/QA) TY-C SAC-B PG76-22S	110 LB/SY/IN	469798 SY	51678 TON
346	Stone Matrix Asphalt SMA-D, SAC-A, PG 76-22	110 LB/SY/IN	499296 SY	54923 TON
351	Repair Existing Flexible Pavement structure Asph Conc Pav (TY A)(6 IN)(Base)(PG 76-22) Asph Conc Pav (TY C)(2 IN)(Surf)(PG 76-22)	110 LB/SY/IN 110 LB/SY/IN		

** For Informational Purposes Only

Superelevate all curves to conform to the slope of the existing curves.

Accrue Contract time charges through the Contractor's completion of the final punch list.

Meet weekly with the Engineer to notify him or her of planned work for the upcoming week.

Equip all construction equipment in roadway work with a permanently mounted 360° revolving or strobe warning light with amber lens. Light will have a minimum lens height and diameter of 5 in. and mounting height of not less than 6 ft. above the roadway surface and be visible from all sides.

Overhead and underground utilities exist in the vicinity of the project. The exact location of underground utilities is not known. Contact the Texas Excavation Safety Systems (TESS) or DIG TESS at 1-800-344-8377 or the area utility companies for exact locations at least 48 hours before commencing any work that might affect present utilities. Contact the Austin District Signal Shop at 512-832-7200 prior to commencing any work around intersections that might damage signal wiring.

Sweep, mow, and remove all litter, construction debris and surplus material on the right of way within the project limits to keep the jobsite in a neat and presentable condition at all times. Consider subsidiary to pertinent Items.

Trim vegetation around signs and other obstructions. Consider subsidiary to pertinent Items.

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Supply litter barrels in enough numbers at locations as directed to control litter within the project. Consider subsidiary to pertinent Items.

Use a self-contained vacuum truck to clean the roadway and keep it free of sediment as directed. Maintain one self-contained vacuum truck for each paving crew in good condition at the project site at all times.

Protect all areas of the right of way which are not included in the actual limits of the proposed construction areas from destruction. Exercise care to prevent damage to trees, vegetation, and other natural surroundings. Areas not to be disturbed will be as directed. The Contractor shall restore any area disturbed as a result of his operations to a condition as good as, or better before the beginning of work, at his expense.

All locations used for storing construction equipment, materials, and stockpiles of any type within the right of way will be as directed. Use of right of way for these purposes will be restricted to those locations where driver sight distance to businesses and side street intersections is not obstructed and at other locations where an unsightly appearance will not exist.

Coordinate and obtain approval for all bridge work over existing roadways with the Engineer.

SW3P/WPAP notes

Plug any abandoned wells found on site during construction in coordination with the Texas Commission on Environmental Quality (TCEQ). Cease construction operations in this area and notify the Engineer who will coordinate the proper plugging procedures with TCEQ.

Plug any drill holes, resulting from core sampling on-site or down-gradient of the site, with concrete from the bottom of the hole to the top of the hole so that water and contaminants are not allowed to enter the subsurface environment.

Restrict construction vehicles from traversing or utilizing existing roadways, unprotected construction areas, and areas with vegetative cover.

Unless otherwise approved, vehicles will not be maintained on-site during construction except at designated maintenance sites.

Transport any soils contaminated during construction of the proposed project from the site and properly dispose of off-site, off the recharge zone, and off any area draining to the recharge zone of the Edwards Aquifer.

Collect wastewater generated on-site by chemical toilets and transport off the recharge zone and dispose of properly.

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Suspend all activities near any significant recharge features, such as sinkholes, caves, or any other subterranean openings that are discovered during construction or core sampling. Do not proceed until the Department geologist is present to evaluate. The discovery may require TCEQ review and approval for the methods proposed to protect the aquifer from any potential adverse impacts.

Locate above-ground storage tanks kept on-site for construction purposes over bermed impervious liners as to not allow any leakage into underlying soils. Additionally, the containment shall be sized to capture 150% of the total volume of fluids stored on-site within the storage area.

ITEM 5. Control of the Work

Mark and maintain 100 ft. station intervals for the duration of the project. Consider subsidiary to pertinent Items.

ITEM 7. Legal Relations and Responsibilities

Article 7.19

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

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

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ITEM 8. Prosecution and Progress

Article 8.3

Working days will be computed and charged in accordance with Article 8.3.A.6 Five-Day Workweek. Working days (5) will be charged Sunday (8 pm) through Friday (6 am), excluding national holidays, regardless of weather conditions or material availability. Work after 6 am on Fridays through Sundays before 8 pm and national holidays will not be permitted without written permission of the Engineer. If work requiring an Inspector to be present is performed on Fridays after 8 pm through Sundays before 8 pm and national holidays and weather and other conditions permit the performance of work for 7 hr, a working day will be charged.

A working day will begin at 8 pm and end the next day at 8 pm.

Article 8.3B

Work that interferes with traffic is required to be performed during non-peak hours, 8:00 PM until 6:00 AM Sunday evening through Friday morning.

The Contractor will be allowed to perform the removal and installation of metal beam guard fence and related items between the hours of 9 am and 3 pm Monday through Thursday as approved by the Engineer.

Article 8.3C

All paving operations work is required to be performed during the nighttime.

Time allotted to complete work on this contract will be 75 days.

Article 8.5

The road-user cost liquidated damages for Milestone 1 is \$5,000 per day.

Substantially complete Milestone 1 in 60 working days.

The time charges for Milestone 1 will begin on the "time for completion of the contract shall be computed beginning" date as stated within the Authorization to Begin Work correspondence from the TxDOT Construction Division.

The time charges for Milestone 1 will end upon completion of all milling and paving of the IH 35 Mainlanes.

The daily incentive rate for substantial completion of Milestone 1 is \$_5,000.

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Lane Closures

IH35 Mainlanes

The traffic control plan depicted within the plans provides for the continuous flow of IH 35 mainlane traffic with no reduction of lanes during peak hours. Lane closures will be required during various phases of the project, but will be limited to non-peak weekdays.

Frontage Roads

The traffic control plan depicted within the plans provides for the continuous flow of the frontage road traffic during peak hours.

Non-Peak Hours for Frontage Roads

Sunday – Friday from 8:00 PM to 6:00 AM.

Monday – Thursday from 9:00 AM to 3:00 PM (applies only to guardfence activities as approved by the Engineer)

Ramps

Ramps are to remain open at all time except as noted in the Traffic Control Plans. Ramp closures will be allowed only during non-peak hours.

LANE RENTALS

The Contractor will be assessed a lane rental charge for each Freeway main lane closed and/or for each Freeway main lane obstructed from the time of notice to proceed until substantial completion of the project. The hourly lane rental rates specified herein will be prorated to a quarter hour basis. The schedule of rental charges and credits will be as follows:

IH-35 MAIN LANE RENTAL SCHEDULE AND RATES

Traffic Conditions	Hourly Rental Rate North Bound (per lane)	Hourly Rental Rate South Bound (per lane)	Maximum Credit for North Bound Closures	Maximum Credit for South Bound Closures
Week Day Peak Hours 15 Min Breakdown Monday-Friday 6:00AM-6:15AM 6:15AM-6:30AM 6:30AM-6:45AM 6:45AM-7:00AM	 \$4,600 \$6,130 \$7,670 \$9,200	 \$4,600 \$6,130 \$7,670 \$9,200	 0	 0
Week Day Semi-peak Hours Monday-Friday 5:00AM-6:00AM 8:00PM-10:00PM	 \$4,600	 \$4,600	 \$1,370,800	 \$1,370,800
Week Day Off-Peak Hours Mon-Friday 10:00PM-5:00AM Sun 7:00PM–Mon 5:00AM	 \$1,150	 \$1,150	 \$1,175,300	 \$1,175,300
Weekend Semi-peak Hours Fri. 10:00PM-Midnight Sat. 9:00AM-Noon Sat. 8:00PM-10:00PM Sun. 9:00AM-11:00AM Sun 5:00PM-7:00PM	 \$4,600	 \$4600	 \$0	 \$0
Weekend Off-Peak Hours Sat. Midnight -9:00AM Sat 10:00PM- Sun 9:00AM	 \$1,150	 \$1,150	 \$0	 \$0

IH-35 FRONTAGE LANE RENTAL SCHEDULE AND RATES

Traffic Conditions	Hourly Rental Rate North Bound (per lane)	Hourly Rental Rate South Bound (per lane)	Maximum Credit for North Bound Closures	Maximum Credit for South Bound Closures
Week Day Peak Hours Monday-Thursday 6:00AM – 9:00 AM 3:00 PM-8:00 PM 15 Min Breakdown Monday-Friday				
0:00-0:15	\$2,000	\$2,000	\$0	\$0
0:15-0:30	\$2,400	\$2,400		
0:30-0:45	\$2,880	\$2,880		
0:45-0:00	\$3,460	\$3,460		
NON-PEAK HOURS Sunday-Friday 8:00PM-6:00AM Monday –Thursday 9:00AM-3:00PM				
8:00PM-6:00AM	\$0	\$0	\$0	\$0
9:00AM-3:00PM	\$0	\$0	\$0	\$0

Contractor will be charged the above lane rental fees if and when he/she exceeds closures in excess of the maximum credits hours specified for each condition and/or incurs closures in traffic conditions with no time credit.

At the end of each closure during the project, the Contractor and the Engineer shall agree to the total number of credit hours lane rental fees assessed for that closure for each traffic condition as specified above.

Completing the work under the maximum number of credit hours for lane closures as specified in the table is encouraged. Any remaining credit for lane rentals at the completion of the project, up to \$100,000, will be awarded as an incentive.

The Department will supply bidders, upon written request, one copy of the lane rental credit hour analysis. The lane rental credit hour analysis is provided for informational use only and is not intended for bidding or construction purposes.

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The Department will not adjust the maximum amount of credit issued for lane rental assessment due to differences in opinion regarding any assumptions made in the preparation of the lane rental credit hour analysis or for errors, omissions or discrepancies found in the credit hour analysis.

The road-user cost liquidated damages, the lane rental charge, the lane assessment fees, contract milestone and the contract administration liquidated damages will be assessed not as a penalty, but for added expense incurred by the traveling public and the department. These assessments will be deducted from any moneys due or to become due to the Contractor.

During special events or at certain times, such as University of Texas home football games, Erwin Center Events, Thanksgiving, and Christmas season, the Engineer may stop or reduce lane closures and provide additional traffic control measures to relieve traffic congestion.

Situations resulting from conditions not controlled by the Contractor causing lost time such as natural disasters, utility conflicts and/or unusually severe weather will not be considered a basis for assessment of lane assessment fee when the overlap occurs after the lane closure has been set.

Waiving lane rental fees will only be considered when a condition, not under the control of the Contractor, does not allow the re-opening of a lane or lanes within thirty minutes, or a time determined by the Engineer.

Closures will be allowed during these times and for these purposes provided that the Contractor has fully implemented the approved TCP and obtained the approval of the Engineer as outlined herein.

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

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

ITEM 100. Preparing Right of Way

Burning of brush will not be permitted.

Removal of objectionable material from the right of way may be required by hand.

ITEM 300. Asphalts, oils, and Emulsions

Asphalt season starts April 1 and ends October 15.

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ITEM 316. Surface Treatments

Surface all transitions, tapers, climbing lanes and intersections to the limits as directed.

Keep all traffic including construction traffic off freshly placed surface treatment.

Distribution to each control section will be proportioned to the volumetric quantity as shown on the “daily road report”.

Asphalt storage tanks may be used.

Remove pavement markers.

Remove vegetation and blade pavement edges.

ITEM 341. Dense-Graded Hot-Mix Asphalt (QC/QA)

Asphalt binder used on the frontage roads shall be PG 76-22S.

Use aggregate that meets the SAC requirement of class B on the frontage road.

ITEM 346. Stone-Matrix Asphalt

Asphalt binder used on the mainlanes shall be PG 76-22TR with a minimum 5% tire rubber

Use aggregate that meets the SAC requirement of class A on the mainlanes.

Aggregates used on shoulders and ramps are required to meet SAC requirements.

Laydown operations shall be performed in such sequence that the longitudinal joint will be carried along without excess distance of lapback and not to exceed one day's operation, unless otherwise authorized.

The overlay from the previous day shall be sawcut prior to the next overlay operation. Consider subsidiary to this bid item.

HMACP that exhibits signs of segregation during laydown operations, in the opinion of the Engineer, shall be removed by planning and replacing by the Contractor at no expense to the Department. Minimum removal and replacing shall be 50-feet.

ITEM 351. Flexible Pavement Structure Repair

Actual limits of areas requiring pavement repair will be determined by the Engineer.

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All pavement repairs will take place prior to milling and paving operations unless otherwise directed by the Engineer.

Each pavement repair will be saw cut and completed nightly.

ITEMS 316, 341, 346 & 354. Surface Treatments, Dense-Graded Hot-Mix Asphalt (QC/QA), Stone-Matrix Asphalt & Planing and Texturing Pavement

The Contractor shall develop, submit for review and approval and subsequently implement an operations plan that will effectively limit traffic exposure to a milled surface to 2 miles for any lane or shoulder. The plan shall include:

1. Detailed proposals for addressing short-term longitudinal and transverse transitions at resultant edges. Longitudinal joints will be sloped at a maximum rate of 1:3. All transverse joints will be sloped at a maximum rate of 1:20 (vertical to horizontal). Any additional milling as required to develop the taper will be considered subsidiary to the milling item.
2. Detailed proposals addressing short term drainage and ponding concerns.
3. Detailed proposals for milling methods (speed and equipment) that produce surfaces that are not adverse to travel, maintenance of surfaces from time of milling to placement of under-seal and SMA. (Include equipment and methods for sweeping as required and as directed by the Engineer to keep roadways clear and safe.)
4. Detailed Work Zone striping plan relative to milled surfaces.
5. Detailed base repair plan, paving plan and striping plan.
6. Detailed traffic control plan for each nights operations (Reference TCP standard, lane and ramp closures and traffic location).

Submit plan as described within 5 days of receipt of Authorization to Begin Work notification letter. TxDOT commits to review and respond within 5 business days of receipt. No work will begin until the plan is submitted and approved. Time charges will start and accrue in accordance with the contract, and the Contractor is encouraged to be prompt and thorough with this submittal to avoid potential for time charges during periods that the Contractor is not allowed to start work. All work to develop the plan will be considered subsidiary to the various bid items.

In the event that the Contractor is unable to effectuate the plan as approved (in the opinion of the Engineer), all planed surfaces will be overlaid before proceeding and planing will subsequently be restricted to the area that can be covered with surface treatment, SMA and work zone striping in the same night's operations. No adjustments to contract time or lane rentals will be made in this event.

ITEM 354. Planing and Texturing Pavements

The Contractor shall be responsible for verifying the pavement thickness on top of inlet locations and adjusting planing depths as needed.

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If the bridge header joint pulls out during planing operations, the contractor shall be responsible for repairing the header expansion joints immediately in a manner as approved by the Engineer.

Remove the loose material from the roadway before opening to traffic.

The Contractor shall retain ownership of planed materials.

ITEM 502. Barricades, Signs, and Traffic Handling

Provide within the limits of the project standard barricades, warning signs, delineators, lights, barrels or drums, and flaggers in enough numbers and combinations as directed. Do not use cones on the interstate.

Use a minimum of 2 flaggers, 2 advance warning flashing arrow panels (TY C), 2 of each signs CW20-5R or CW20-5L with appropriate distance plaques and CW9-2R or CW9-2L and 28-in. cones at each location in which milling or paving operations are in progress. Maintain at least 1 lane of traffic in each direction during paving or milling operations. Maintain at least the minimum numbers of lanes as directed.

No paving operations work will be allowed on the roadway from 6:00 am to 8:00 pm, Monday thru Friday. All paving operations work shall be performed between the hours of 8:00 pm and 6:00 am, Sunday through Thursday. No work on IH 35 shall be allowed on the roadway Friday after 6:00 am until Sunday at 8:00 pm, unless otherwise authorized by the Engineer.

The removal and installation of metal beam guard fence and related items will be allowed to be performed between the hours of 9 am and 3 pm Monday through Thursday as approved by the Engineer.

The Contractor shall supply two crews for paving operations. One crew will perform paving operations on the mainlanes, while the other crew performs paving operations on the frontage roads in the opposite direction. At no time will the contract be allowed to have lane closures on both the mainlanes and frontage roads in the same direction at the same time.

Pending adequate performance and production, the Engineer may allow the temporary suspension of frontage road paving operations in the initial direction to facilitate the start of mainlane paving in that direction.

No weekend closures will be allowed. No closures will be allowed on holidays including the following: January 1, the last Monday in May, July 4, the first Monday in September, the fourth Thursday in November, December 25 and Easter weekend. Ensure all equipment, vehicles, workers, etc., associated with these closures are off the roadways and all lanes re-opened at least by noon of the Friday before these holidays and special events.

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Unless otherwise approved, no daytime closures will be allowed.

Place one TY III Barricade 8 ft. at each stockpile of material that is placed on the right of way and is located within 30 ft. of the traveled way.

Place appropriate portable changeable message boards at locations requiring lane closures for 3 days before the closures or as directed. The Engineer will approve the actual message to appear on the boards.

Use advance warning flashing arrow panels for the closing of traffic lanes. Furnish one stand-by unit, in good working condition at the jobsite, ready for immediate use.

Maintain access to all streets and driveways at all times. Consider subsidiary to the pertinent Items.

Furnish advisory speed signs in enough numbers as directed. Maintain enough manpower to revise traffic control as directed.

Repair or replace any signs which are damaged by the Contractor's operations during construction or which are deemed insufficient.

Conduct all construction operations to provide the least possible interference to traffic. Schedule work so all mainlanes are open to traffic during the daytime.

Coordinate work with the project to the south to provide the least possible interference to traffic.

Provide full-time off-duty uniformed certified peace officers in officially marked vehicles as part of traffic control operations.

The peace officers will have to show proof of certification by the Texas Commission on Law Enforcement Standards.

ITEM 504. Field Office and Laboratory

Furnish the inspector with one cellular phone small enough to carry on a belt holster. Obtain the Engineer's approval for the proposed cellular phone service plan before putting it into service. Provide three additional phones with walkie-talkie capabilities for additional inspectors on the project.

Provide to the Department and their representative a computer and printer at the plant when hot mix asphaltic concrete is being produced. The computer and printer will be located in the lab in which the Department testing is conducted. The computer will be for the sole use of the Department and their representative. The computer must be equipped with an Internet service

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provider, electronic mail software and Microsoft EXCEL. The operating system and all software must be compatible with the systems and software employed by the Department.

No field office will be required for this project.

ITEM 506. Temporary Erosion, Sedimentation, and Environmental Control

Consider the SW3P for this project to consist of the following items as directed:

Temporary Sediment Control Fence

The installation of Temporary Sediment Control Fence shall be placed as directed by the Engineer.

ITEM 540. Metal Beam Guard Fence

Adjust the limits of the Metal Beam Guard Fence (MBGF) to meet field conditions as directed before erection.

Furnish new, round, domed and unpainted timber posts. Furnish steel posts at locations where the minimum embedment shown on the plans for wooden posts cannot be achieved. Field verify the steel post lengths before fabrication. Consider the steel posts subsidiary to the pertinent Item.

Salvage existing MBGF including rail elements and posts from guard fence removed under Item 542 "Removing Metal Beam Guard Fence".

Replace any salvaged guard rail to be reused, which was damaged before the Contractor began work on this project, and obsolete guard rail with either new or salvaged rail furnished by the Department located at 7901 N. IH 35, (512)832-7000.

Before beginning the installation of the proposed MBGF, stake the locations for approval.

ITEM 545. Crash Cushion Attenuators

All crash cushion attenuators installed shall meet a minimum design speed of 55 mph.

ITEM 585. Ride Quality for Pavement Surfaces

Use Surface Test Type B pay adjustment schedule 2 to evaluate ride quality of the travel lanes, in accordance with Item 585, "Ride Quality for Pavement Surfaces" on the mainlanes of I-35. The contractor will be required to gather IRI data prior to starting road work.

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Use Surface Test Type A to evaluate ride quality of travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces" on the frontage roads of I-35.

ITEM 662. Work Zone Pavement Markings

Temporary flexible-reflective road marker tabs shall remain in place no longer than 5 days, at which point standard longitudinal markings shall be placed.

Foil backed pavement markings will not be allowed.

ITEM 666. Reflectorized Pavement markings

Apply Type I Reflectorized Pavement Markings no sooner than 7 days after applying the final course of HMA.

Type II reflectorized pavement markings shall be placed at least once a week for the completed sections of roadway. Failure to place Ty II markings by 6:00am on Friday for the entire week's production each week will result in the deduction of \$8,000 of lane rental credit.

Reference existing channel islands, gores, and lane striping before commencing work. Provide referencing that will include a sketch of the layout to the Engineer. Obtain approval for placement of guidemarks from the Engineer before to installing any permanent pavement markings. Consider subsidiary to the pertinent Item.

ITEM 672. Raised Pavement Markers

Use bituminous adhesive to bond all raised pavement markers to the pavement.

Place the bituminous adhesive at a temperature range of 380°F to 390°F. Place the pavement marker on the bituminous adhesive approximately 20 seconds after the adhesive is placed on the pavement. Ensure the pavement marker rests solely on the adhesive and not the pavement surface. Ensure that a minimum of 1/8 in. layer of bituminous adhesive remains between the pavement marker and the pavement surface.

Apply raised pavement markers no sooner than 7 days after applying the final course of HMA.

Use 40-ft spacing for raised pavement markers for the broken white stripe (lane lines) unless otherwise approved.

ITEM 688. Pedestrian Detectors and Vehicle Loop Detectors

All loop detectors will be sawcut into the final pavement surface.

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Test all loops in accordance with the FHWA loop detector handbook.

ITEM 5010. Transportable Cellular Telephones

Furnish the inspector with one cellular phone small enough to carry on a belt holster. Obtain the Engineer's approval for the proposed cellular phone service plan before putting it into service. Provide three additional phones with walkie-talkie capabilities for additional inspectors on the project.

ITEM 6038. Portable Changeable Message Sign

Provide electronic portable changeable message signs as part of the traffic control operations. Provide backups and keep operational and available on the jobsite at all times during traffic control operations.