

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 2

**DATED 1/25/2008**

<b>Control</b>	<b>0054-01-022</b>
<b>Project</b>	<b>BR 2008(467)</b>
<b>Highway</b>	<b>US 84</b>
<b>County</b>	<b>TAYLOR</b>

Ladies/Gentlemen:

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

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

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

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

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

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

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: BR 2008(467)

CONTROL: 0054-01-022

COUNTY: TAYLOR

LETTING: 02/08/2008

REFERENCE NO: 0125

**PROPOSAL ADDENDUMS**

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PROPOSAL COVER

X BID INSERTS (SH. NO.: 8-8 )

X GENERAL NOTES (SH. NO.: C, F THRU J )

X SPEC LIST (SH. NO.: 3-3 )

X SPECIAL PROVISIONS:

ADDED:

DELETED: 008---070

X SPECIAL SPECIFICATIONS:

ADDED:

DELETED: 6834

X OTHER: SEE CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS: DELETED ITEM 6834-2002.

GENERAL NOTES: SHEET C - REVISED GENERAL NOTE FOR ITEM 8.  
SHEET F - ADDED GENERAL NOTE FOR ITEM 430. ALSO ADDED  
GENERAL NOTE TO ITEM 496.  
SHEET G - REVISED FIFTH PARAGRAPH OF ITEM 502.  
SHEETS H AND J - REVISED DUE TO SHIFTING.  
SHEET I - REVISED GENERAL NOTE FOR ITEM 542.

SPEC LIST: SHEET 3-3 - DELETED SP(008---070) AND SS 6834.

PLAN SHEETS: 9A THRU 9D, 10A, AND 27 REVISED DUE TO ABOVE CHANGES.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2006	002	PREP ROW (TREE)(LESS THAN 24" DIA) DOLLARS and CENTS	EA	9.000	1
	100	2007	002	PREP ROW (TREE)(GREATER THAN 24" DIA) DOLLARS and CENTS	EA	5.000	2
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	3,774.000	3
	110	2002		EXCAVATION (CHANNEL) DOLLARS and CENTS	CY	1,869.000	4
	132	2003		EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS	CY	9,247.000	5
	160	2003		FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS	SY	25,499.000	6
	164	2003	002	BROADCAST SEED (PERM) (RURAL) (CLAY) DOLLARS and CENTS	SY	25,499.000	7
	164	2009	002	BROADCAST SEED (TEMP) (WARM) DOLLARS and CENTS	SY	12,752.000	8
	164	2011	002	BROADCAST SEED (TEMP) (COOL) DOLLARS and CENTS	SY	12,752.000	9
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	853.400	10
	169	2003		SOIL RETENTION BLANKETS (CL 1) (TY C) DOLLARS and CENTS	SY	977.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	260	2006	001	LIME TRT (EXST MATL) (6") and DOLLARS CENTS	SY	34,710.000	12
	260	2012	001	LIME(HYD,COM OR QK)(SLRY)OR QK(DRY) and DOLLARS CENTS	TON	281.100	13
	305	2035		SALV, HAUL & STKPL RCL APH PV (2"-6") and DOLLARS CENTS	SY	22,577.000	14
	316	2223		AGGR(TY-PB GR-4 SAC-B) and DOLLARS CENTS	CY	297.000	15
	316	2399		ASPH (AC-20-5TR OR AC-12-5TR) and DOLLARS CENTS	GAL	11,908.000	16
	344	2011		PRF-DSGN-MX SP-B PG64-22 and DOLLARS CENTS	TON	15,129.000	17
	344	2120		PRF-DSGN-MX SP-D SAC-B PG70-22 and DOLLARS CENTS	TON	3,731.000	18
	400	2005		CEM STABIL BKFL and DOLLARS CENTS	CY	984.000	19
	403	2001		TEMPORARY SPL SHORING and DOLLARS CENTS	SF	3,637.000	20
	416	2002		DRILL SHAFT (24 IN) and DOLLARS CENTS	LF	714.000	21
	416	2003		DRILL SHAFT (30 IN) and DOLLARS CENTS	LF	2,166.000	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	420	2004	002	CL C CONC (BENT)  and  DOLLARS CENTS	CY	222.000	23
	420	2033	002	CL S CONC (APPR SLAB)  and  DOLLARS CENTS	CY	492.300	24
	420	2041	002	CL C CONC (ABUT)(HPC)  and  DOLLARS CENTS	CY	236.000	25
	420	2051	002	CL C CONC (COLUMN)  and  DOLLARS CENTS	CY	98.800	26
	422	2002		REINF CONC SLAB (EXT SLAB)  and  DOLLARS CENTS	SF	1,779.800	27
	422	2003		REINF CONC SLAB (HPC)(CL S)  and  DOLLARS CENTS	SF	54,971.000	28
	425	2002		PRESTR CONC BEAM (TY B)  and  DOLLARS CENTS	LF	6,290.370	29
	425	2016		PRESTR CONC SLAB BEAM (4SB15)  and  DOLLARS CENTS	LF	2,077.500	30
	425	2017		PRESTR CONC SLAB BEAM (5SB15)  and  DOLLARS CENTS	LF	277.000	31
	428	2002		CONC SURF TREAT (CLASS II)  and  DOLLARS CENTS	SY	6,024.000	32
	430	2001		CL C CONC FOR EXT STR (CULV)  and  DOLLARS CENTS	CY	341.200	33

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	430	2126		CL C CONC FOR EXT STR(ABUT)(HPC) DOLLARS and CENTS	CY	118.000	34
	432	2002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	233.600	35
	432	2040		RIPRAP (MOW STRIP)(5 IN) DOLLARS and CENTS	CY	304.000	36
	450	2003		RAIL (TY T203) DOLLARS and CENTS	LF	2,248.000	37
	454	2001		SEALED EXPANSION JOINT (4 IN)(SEJ-A) DOLLARS and CENTS	LF	140.000	38
	454	2002		SEALED EXPANSION JOINT (4 IN)(SEJ-P) DOLLARS and CENTS	LF	442.000	39
	460	2015		CMP AR (GAL STL DES 3) DOLLARS and CENTS	LF	112.000	40
	467	2337		SET (TY II)(DES 3)(CMP)(6:1)(P) DOLLARS and CENTS	EA	6.000	41
	496	2007		REMOV STR (PIPE) DOLLARS and CENTS	LF	109.000	42
	496	2010		REMOV STR (BRIDGE 100-499 FT LENGTH) DOLLARS and CENTS	EA	4.000	43
	500	2001	004	MOBILIZATION DOLLARS and CENTS	LS	1.000	44

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING  DOLLARS and CENTS	MO	26.000	45
	506	2001	011	ROCK FILTER DAMS (INSTALL) (TY 1)  DOLLARS and CENTS	LF	300.000	46
	506	2009	011	ROCK FILTER DAMS (REMOVE)  DOLLARS and CENTS	LF	300.000	47
	506	2034	011	TEMPORARY SEDIMENT CONTROL FENCE  DOLLARS and CENTS	LF	7,243.000	48
	508	2002		CONSTRUCTING DETOURS  DOLLARS and CENTS	SY	3,600.000	49
	512	2010	001	PORT CTB (DES SOURCE)(SAFETY SH)(TY 1)  DOLLARS and CENTS	LF	3,630.000	50
	512	2019	001	PORT CTB (MOVE)(SAFETY SH)(TY 1)  DOLLARS and CENTS	LF	17,280.000	51
	512	2028	001	PORT CTB (STKPL)(SAFETY SH)(TY 1)  DOLLARS and CENTS	LF	3,630.000	52
	530	2011		DRIVEWAYS (ACP)  DOLLARS and CENTS	SY	303.000	53
	540	2001		MTL W-BEAM GD FEN (TIM POST)  DOLLARS and CENTS	LF	1,350.000	54

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	ITEM NO	DESC CODE	S.P. NO.				
	540	2011		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	28.000	55
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	3,800.000	56
	544	2003	001	GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	28.000	57
	544	2004	001	GDRAIL END TRT(INST)(WOOD POST)(TY I) DOLLARS and CENTS	EA	28.000	58
	545	2001		CRASH CUSH ATTEN (INSTL) DOLLARS and CENTS	EA	4.000	59
	545	2002		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	20.000	60
	545	2003		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	4.000	61
	552	2003		WIRE FENCE (TY C) DOLLARS and CENTS	LF	817.000	62
	560	2004	001	MAILBOX INSTALL-S (WC-POST) TY 3 FND DOLLARS and CENTS	EA	1.000	63
	644	2006		INS SM RD SN SUP&AM TY 10BWG(1) SA(U) DOLLARS and CENTS	EA	6.000	64
	644	2027		INS SM RD SN SUP&AM TY S80(1) SA(U) DOLLARS and CENTS	EA	8.000	65

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	16.000	66
	658	2260		INSTL DEL ASSM (D-SW)SZ (TYC)GF1 DOLLARS and CENTS	EA	68.000	67
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	90,545.000	68
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	90,545.000	69
	662	2113		WK ZN PAV MRK SHT TERM (TAB) TY W DOLLARS and CENTS	EA	3,478.000	70
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	2,311.000	71
	666	2189		PAVEMENT SEALER 4" DOLLARS and CENTS	LF	6,639.000	72
	672	2012		REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	436.000	73
	672	2015		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	872.000	74
	677	2001		ELIM EXT PAV MRK & MRKS ( 4") DOLLARS and CENTS	LF	90,597.000	75
	678	2001		PAV SURF PREP FOR MRK ( 4") DOLLARS and CENTS	LF	6,639.000	76

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	752	2021		TREE TRIMMING/BRUSH REMOVAL(CHAN- NELS)  and  DOLLARS CENTS	AC	1.070	77
	6110	2015	008	REF PAV MRK TY I (W)(4")(BRK)(100 MIL) DOLLARS and CENTS	LF	8,723.000	78
	6110	2018	008	REF PAV MRK TY I (W)(4")(SLD)(100 MIL) DOLLARS and CENTS	LF	34,884.000	79
	6110	2057	008	REF PAV MRK TY I (Y)(4")(SLD)(100 MIL) DOLLARS and CENTS	LF	34,884.000	80

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**General Notes:**

**General:**

Cut neat, straight lines with vertical faces along pavement edges or along joints between existing asphalt or concrete pavement and new pavement perpendicular or parallel to the direction of traffic by methods described in applicable bid items, or as directed. Provide clean edges or joints without jagged appearance or chunks broken out. This work is considered subsidiary to various bid items.

Delineate stockpiles in the right of way with 42 in. cones at 75 ft. on center spacing and a Type III barricade on each end of the stockpile.

Construction at the Red Bank Creek structure shall not begin until coordination and approval of the US Army Corp of Engineers (USCE), Nationwide Permit No. 14 (Linear Transportation Crossing) pre-construction notice (PCN) has been completed. A copy of the approve PCN will be provided to the Contractor by TxDOT as soon as it is received.

**Item 5, “Control of Work”**

Prior to contract letting, bidders may obtain a free computer diskette or a computerized transfer of files (from the Engineer’s office) that contains the earthwork information. If copies of the actual cross-sections in addition to, or instead of, the diskette are requested, they will be available at the Engineers office for borrowing by copying companies for the purpose of making copies for the bidder at the bidders expense.

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

**Item 7, “Legal Relations and Responsibilities”**

Provide access to all businesses and residences with minimum disruption and as directed. Materials, labor, and maintenance for these temporary accesses is considered subsidiary to the various bid items.

Do not initiate activities in a project specific location (PSL), associated with a U.S. Army Corps of Engineers (USACE) permit area that has 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

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wetlands affected by activities associated with this project. Special restrictions may be required for such work. 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. Provide the department with a copy of all consultation(s) or approval(s) from the USACE prior to 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 determination(s) that their activities do not affect a USACE permit area. Maintain copies of their determination(s) for review by the department or any regulatory agency.

Document and coordinate with the USACE, if required, prior to any excavation hauled from or embankment hauled into a USACE permit area by either (1) or (2) below.

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

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

- a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110 is used for permanent or temporary fill (Item 132, Embankment) within a USACE permit area;
- b. Suitable embankment (Item 132) from within the USACE permit area is used as fill within a USACE evaluated area; and,
- c. Unsuitable excavation or excess excavation [“Waste”] (Item 110) that is disposed of at a location approved by the Engineer within a USACE evaluated area.

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

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

- a. Item 132, Embankment, used for temporary or permanent fill within a USACE permit area; and,
- b. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

The total area disturbed for this project is **12.77** acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ

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for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the government that operates a separate storm sewer system.

The Contractor's attention is directed to the Texas Aggregate Quarry Pit Safety Act. Any pit or quarry meeting the definition of an unacceptable unsafe location as defined in the Act is subject to regulations set forth in this Act. A copy of the Texas Administrative Code, Title 43, Part, 1, Chapter 21, Subchapter M may be viewed at [http://info.sos.state.tx.us/pls/pub/readtac\\$ext.ViewTAC](http://info.sos.state.tx.us/pls/pub/readtac$ext.ViewTAC).

The Contractor's attention is directed to potential regulations against burning within the project limits. Abide by all local ordinances and county imposed burn bans. When burning is prohibited, dispose of material in accordance with regulations set forth by other regulatory agencies including the Texas Commission for Environmental Quality. The cost of burning or disposal of any product is subsidiary to various bid items.

**Item 8 “Prosecution and Progress”**

Working days will be computed and charged in accordance with Section 8.3.A.4, Standard Workweek. Except that time will not be charged during vegetative establishment, maintenance, performance and test periods when all other work has been satisfactorily completed.

**Item 100, “Preparing Right of Way”**

The Contractor's attention is directed to potential regulations against burning within the project limits. Abide by all local ordinances and county imposed burn bans. When burning is prohibited, dispose of material in accordance with regulations set forth by other regulatory agencies including the Texas Commission for Environmental Quality. The cost of burning or disposal of any product is subsidiary to various bid items.

**Item 110, “Excavation”**

Compact subgrade, in accordance with Article 132.3.D.2, Density Control.

**Item 160, “Topsoil”**

Salvage existing topsoil in windrows along the limits of the disturbed area, or as directed. In areas where topsoil cannot be salvaged or is incorporated into the earthwork, secure additional topsoil from approved sources outside the right-of-way.

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**Item 164, “Seeding for Erosion Control”**

Quantities shown are approximate; limits of the temporary and permanent seeding will be determined during construction.

**Item 168, “Vegetation Watering”**

See SW3P layouts and SW3P summaries for more details.

**Item 302, “Aggregates for Surface Treatments”**

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

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

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

**Item 305, “Salvaging, Hauling and Stockpiling Reclaimable Asphaltic Pavement”**

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

Stockpile all Reclaimable Asphaltic Pavement on TxDOT's ROW at the US 83/84 split in Taylor County. This is located approximately 1 mile north from the north end of the project.

**Item 316, “Surface Treatments”**

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

Seal driveways, mailbox turnouts, and intersections prior to sealing the roadway, unless otherwise approved.

Furnish two medium pneumatic-tire rollers in accordance with item 210, “Rolling”.

Pre-coat aggregate with **PG 64-16**, or as approved by the Engineer.

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

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**Item 344, “Performance-Designed Mixtures”**

Furnish aggregate for final surfaces with a surface aggregate classification of “**B**” and a maximum magnesium sulfate soundness loss of 25%.

Provide subsurface aggregates with a maximum magnesium sulfate soundness loss value of 30%.

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

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

Design the mixture with  $N_{des} = 75$  gyrations. The design number of gyrations may be increased from 75 to 100 when allowed by the Engineer.

Meet the minimum Hamburg Wheel Test requirements shown below:

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

A minimum of 0.75% anti-stripping agent is required for each specified mix type. Provide a stone on stone contact aggregate gradation below the reference zone.

Dilution of tack coat is not allowed.  
Do not exceed a laydown width of 16 ft. per pass.

**Item 420, “Concrete Structures”**

In addition to the elements shown in table 2, the following elements are Plans Quantity Elements.

- Bent Concrete

**Item 421: Hydraulic Cement Concrete**

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

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

Air Entrainment requirements are waived with exception to bridge deck concrete, and all slip formed concrete (bridge rail, concrete traffic barrier, pavement, etc.).

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

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

**Item 420 & 427, “Concrete Structures” & “Surface Finishes for Concrete”**

Provide a Surface Area 1 finish using an Adhesive Grout Coating or Rub Finish as directed.

**Item 430, “Extending Concrete Structures”**

Removal of all existing asphaltic pavement, base, and embankment, will be required for the full length and width of existing bridges. This work is subsidiary to this item.

**Item 432, “Riprap”**

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

Meet the following requirements when using fiber reinforcement:

- Use Class B Concrete.
- If slip forming, use an approved method that ensures adequate concrete consolidation. Sprinkle and consolidate the subgrade before the concrete is placed. Finish the surface with a wood float or broom finish as approved. Immediately after finishing operation, cure the riprap according to Item 420, “Concrete Structures”.
- Reinforce with fibers made from 100% virgin homopolymer graded, fibrillated polypropylene fibers, containing no reprocessed olefin materials, conforming to ASTM C1116, Types I and III. The polypropylene fibers shall be of a multi-length gradation, with no fibers over 2” in length, alkali-resistant and non-absorptive. Minimum dosage shall be 3 lbs/cubic yard of concrete. The minimum average residual strength is 80psi, per ASTM C1399. Provide evidence of material performance in concrete.

When using conventional reinforcement, meet all requirements in accordance with Article 432.2.A. and 432.3.A, Concrete Riprap.

**Item 496, “Removing Structures”**

The removal of miscellaneous concrete riprap and its elements at the various bridge locations will be considered subsidiary to this bid item. Material removed under this item will not be deemed salvageable.

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Do not flame or saw-cut existing steel beams. Unbolting, shearing or other method approved by the Engineer will be required.

Lead abatement will be performed by the Department at connection points between the diaphragms and beams prior to dismantling. Use of flame cutting or saw cutting will be allowed, for separation of diaphragm to beam connections.

Removal of all existing asphaltic pavement, base, and embankment, will be required for the full length and width of existing bridges. This work is subsidiary to this item.

**Item 502, “Barricades, Signs and Traffic Handling”**

Provide plastic drums or 42 inch cones on all daytime lane closure tapers when ADT is 1,000 vehicles per day or greater.

Do not stockpile CTB within 30 feet from the edge of the existing and proposed pavement.

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

Provide to the Engineer a letter certifying that all truck-mounted attenuators (TMA) used on the project have proven to be crashworthy using the criteria outlined in the *National Cooperative Highway Research Program (NCHRP) Report 350*.

Furnish two Portable Changeable Message signs at each work location. These signs will be subsidiary to item 502 Barricades, Signs and Traffic Handling.

In sections where traffic is restricted to one lane, two-way traffic, flaggers stationed at each end of that section will control operations with two-way communication devices.

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

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

**Item 504, “Field Office and Laboratory”**

The field office and parking area will require a 6-foot chain link fence with three strands of barbed wire and a 12-foot gate. The chain link fence will be parallel to and a minimum of 20 feet from the field office.

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**Field Office:**

Furnish one field office "Type E" for this project. This building cannot be less than 360 sq ft or an approved equivalent, have less than two glass windows and one door. Furniture and equipment to be furnished will include:

- workbench (min 3 ft wide)
- table (min 3 ft wide)
- telephone

Locate the structure off the right of way, but adjacent to the existing right of way or as approved by the Engineer.

**Field Laboratory:**

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

- eye wash station
- first-aid kit
- two fire extinguishers

Asphalt content may be determined utilizing the ignition method.

Furnish a built-in equipment storage cabinet for the storage of nuclear equipment. The cabinet should be a minimum of 2 feet wide by 2 feet deep by 3 feet high and have provisions for locking securely.

Provide a 240-volt electrical entrance service. The service will operate continuously and consist of a minimum of four 120-volt circuits with 20-amp breakers and no more than two grounded convenience outlets per circuit and provisions for a minimum of two 220-volt ovens with vents to the outside. Have a minimum of two convenience outlets per wall (one of which is a "GFCI" outlet). Space heaters for heating are not acceptable. Portable structures should be support blocked for stability and tied down.

**Site Manager Equipment:**

Provide the following equipment:

- Laptop Microcomputer & Secure Digital (SD) Card and Reader/Writer
- Internet Service Provider

**Item 506, "Temporary Erosion, Sedimentation, and Environmental Controls"**

Items of work have been provided in this contract to establish a uniform vegetative cover. This project will not receive "Final Acceptance" until a 70% density of existing adjacent undisturbed area is obtained, unless otherwise directed.

**County:** Taylor

**Control:** 0054-01-022, etc.

**Highway:** US 84

**Item 512, “Portable Concrete Traffic Barrier”**

The state will furnish the portable concrete traffic barrier (PCTB) sections stockpiled at Loop 322 West Right of Way North of SH 36 approx. 15 miles from project and returned to US 84 Right of Way at the Union Pacific Railroad underpass at Tye, and will be hauled by the Contractor to the project site. Upon removal, return the PCTB to the storage areas. Make arrangements at the storage sites for the loading and unloading of the PCTB.

The connecting hardware (dowel pins) will be provided by the Contractor. The dowel pins will be steel rod, 1 in. diameter and 16 in. long. There will be two dowel pins per stick of PCTB.

**Item 540, “Metal Beam Guard Fence”**

For metal beam guard fence, use round wood posts.

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

**Item 542, “Removing Metal Beam Guard Fence”**

Metal beam guard fence and posts deemed salvageable by the Engineer will remain the property of the state and be stockpiled at the Right of Way at the Union Pacific Railroad underpass at Tye approximately 15 miles from project.

**Item 544, “Guardrail End treatments”**

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

**Item 644, “Small Roadside Sign Supports and Assemblies”**

Use the latest edition of the “Standard Highway Sign Designs for Texas” for Sign types for which design details are not shown on the plans.

**Item 658, “Delineator and Object Marker Assemblies”**

Place type “C” delineators on Metal Beam Guard fence and Rail at 100-ft spacing. Reduce spacing to provide a minimum of three delineators per run. Attach with Liquid Nails or equivalent to metal bridge rail and metal beam guard fence.

**Item 662, “Work Zone Pavement Markings”**

Place work zone pavement markings prior to the seal coat operation.

**Project Number:** BR 2008(467)

**Sheet:**

**County:** Taylor

**Control:** 0054-01-022, etc.

**Highway:** US 84

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

**Item 5010, “Transportable Cellular Telephones”**

Provide 2 cellular telephones for the duration of the project with local service activation for communication between the Department Area Office and the Department personnel at any location within the project limits.

Provide the Engineer with a detailed billing statement for each billing cycle. The billing statement must include at a minimum for each call: date, time of call, phone number called, length of call in minutes, by the 15<sup>th</sup> day of each month. This will be used for internal purposes and no payment will be made for the actual calls or for the submittal of monthly copies.

**Item 6110, “Reflectorized Pavement Markings with Retroreflective Requirements”**

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

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

CONTROL : 0054-01-022, ETC  
PROJECT : BR 2008(467)  
HIGHWAY : US 84  
COUNTY : TAYLOR

TEXAS DEPARTMENT OF TRANSPORTATION

**GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS**

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF  
----- TRANSPORTATION JUNE 1, 2004.  
STANDARD SPECIFICATIONS ARE INCORPORATED  
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS  
ITEM 100 PREPARING RIGHT OF WAY  
ITEM 110 EXCAVATION (132)  
ITEM 132 EMBANKMENT (100)(204)(210)(216)(400)  
ITEM 160 TOPSOIL  
ITEM 164 SEEDING FOR EROSION CONTROL (162)(166)(168)  
ITEM 168 VEGETATIVE WATERING  
ITEM 169 SOIL RETENTION BLANKETS  
ITEM 260 LIME TREATMENT (ROAD-MIXED) (105)(132)(204)(210)(300)  
(310)(520)  
ITEM 305 SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALT  
PAVEMENT  
ITEM 316 SURFACE TREATMENTS (210)(300)(302)(520)  
ITEM 344 PERFORMANCE-DESIGN MIXTURES (210)(300)(301)(320)(340)  
(520)(585)  
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132)(401)(420)  
(421)  
ITEM 403 TEMPORARY SPECIAL SHORING (423)  
ITEM 416 DRILLED SHAFT FOUNDATIONS (420)(421)(440)(448)  
ITEM 420 CONCRETE STRUCTURES (400)(404)(421)(426)(427)(438)(440)  
(448)  
ITEM 422 REINFORCED CONCRETE SLAB (420)(421)(424)(426)(430)(440)  
ITEM 425 PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS (420)  
(421)(424)(426)(427)(434)(440)  
ITEM 428 CONCRETE SURFACE TREATMENT (427)  
ITEM 430 EXTENDING CONCRETE STRUCTURES (420)(421)(440)  
ITEM 432 RIPRAP (420)(421)(427)(440)  
ITEM 450 RAILING (420)(421)(440)(540)  
ITEM 454 BRIDGE EXPANSION JOINTS (442)  
ITEM 460 CORRUGATED METAL PIPE (400)(445)

- ITEM 467 SAFETY END TREATMENT (400)(420)(421)(430)(432)(440)(445)  
(460)(464)
- ITEM 496 REMOVING STRUCTURES (430)
- ITEM 500 MOBILIZATION
- ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING (5010)
- ITEM 504 FIELD OFFICE AND LABORATORY
- ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL  
CONTROLS
- ITEM 508 CONSTRUCTING DETOURS
- ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (420)(421)(424)(440)  
(442)
- ITEM 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247)(260)(263)  
(275)(276)(292)(316)(330)(334)(340)(360)(421)(440)
- ITEM 540 METAL BEAM GUARD FENCE (421)(445)(529)(542)(544)
- ITEM 542 REMOVING METAL BEAM GUARD FENCE
- ITEM 544 GUARDRAIL END TREATMENTS
- ITEM 545 CRASH CUSHION ATTENUATORS (421)
- ITEM 552 WIRE FENCE (445)(492)
- ITEM 560 MAILBOX ASSEMBLIES
- ITEM 644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (421)(440)  
(441)(442)(445)(634)(636)(643)(656)
- ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
- ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(668)(672)(677)
- ITEM 666 REFLECTORIZED PAVEMENT MARKINGS (316)(318)(662)(677)(678)
- ITEM 672 RAISED PAVEMENT MARKERS (677)(678)
- ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)  
(302)(316)
- ITEM 678 PAVEMENT SURFACE PREPARATION FOR MARKINGS (677)
- ITEM 752 TREE AND BRUSH REMOVAL

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE  
 ----- PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED  
 HEREON WHEREVER IN CONFLICT THEREWITH.

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS  
 (FORM FHWA 1273, MARCH, 1994)

WAGE RATES

- SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--1002)
- SPECIAL PROVISION "PARTNERING" (000---002)
- SPECIAL PROVISION "NOTICE TO ALL BIDDERS" (000---003)
- SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO  
ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)
- SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL-AID  
CONSTRUCTION" (000---461)
- SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY  
CONSTRUCTION CONTRACT SPECIFICATIONS" (000---006)
- SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000--1001)
- SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"  
(000---009)
- SPECIAL PROVISION "DEPARTMENT DIVISION MAILING AND PHYSICAL ADDRESS"  
(000---011)
- SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--1216)

SPECIAL PROVISION TO ITEM 1 (001---005)  
 SPECIAL PROVISION TO ITEM 3 (003---026)  
 SPECIAL PROVISION TO ITEM 4 (004---008)  
 SPECIAL PROVISION TO ITEM 5 (005---004)  
 SPECIAL PROVISION TO ITEM 6 (006---030)  
 SPECIAL PROVISIONS TO ITEM 7 (007---213) (007---297)  
 SPECIAL PROVISION TO ITEM 8 (008---006)  
 SPECIAL PROVISION TO ITEM 9 (009---009)  
 SPECIAL PROVISION TO ITEM 100 (100---002)  
 SPECIAL PROVISION TO ITEM 164 (164---002)  
 SPECIAL PROVISION TO ITEM 166 (166---001)  
 SPECIAL PROVISION TO ITEM 247 (247---020)  
 SPECIAL PROVISION TO ITEM 260 (260---001)  
 SPECIAL PROVISION TO ITEM 360 (360---003)  
 SPECIAL PROVISION TO ITEM 420 (420---002)  
 SPECIAL PROVISION TO ITEM 421 (421---024)  
 SPECIAL PROVISION TO ITEM 434 (434---003)  
 SPECIAL PROVISION TO ITEM 440 (440---001)  
 SPECIAL PROVISION TO ITEM 441 (441---002)  
 SPECIAL PROVISION TO ITEM 442 (442---005)  
 SPECIAL PROVISION TO ITEM 492 (492---001)  
 SPECIAL PROVISION TO ITEM 500 (500---004)  
 SPECIAL PROVISION TO ITEM 502 (502---033)  
 SPECIAL PROVISION TO ITEM 506 (506---011)  
 SPECIAL PROVISION TO ITEM 512 (512---001)  
 SPECIAL PROVISION TO ITEM 544 (544---001)  
 SPECIAL PROVISION TO ITEM 560 (560---001)  
 SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 6110 (6110--008)

SPECIAL SPECIFICATIONS:

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ITEM 5010 TRANSPORTABLE CELLULAR TELEPHONES  
 ITEM 6110 REFLECTORIZED PAVEMENT MARKINGS WITH RETROREFLECTIVE  
 REQUIRMENTS (677) (678) (6629)  
 ITEM 6629 MOBILE RETROREFLECTIVITY DATA COLLECTION FOR PAVEMENT  
 MARKINGS

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH  
 ----- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER  
 PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-  
 LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL  
 PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-  
 CATIONS FOR THIS PROJECT.