

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 6/21/2016

Control	2612-01-011
Project	SSW 2612-1-11
Highway	RM 2654
County	HEMPHILL

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: SSW 2612-1-11

CONTROL: 2612-01-011

COUNTY: HEMPHILL

LETTING: 07/08/2016

REFERENCE NO: 0621

PROPOSAL ADDENDUMS

___ PROPOSAL COVER

X BID INSERTS (SH. NO.: 7-8, 8-8)

X GENERAL NOTES (SH. NO.: SHEET D THRU I)

___ 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)

BID INSERTS 7-8 AND 8-8 ADDED ITEMS 636-6001, 685-6003, AND 685-6004
GENERAL NOTES SHEET D - REVISED NOTE UNDER ITEM 341 SIXTH NOTE FOR
MINIMUM ASPHALT CONTENT
PLAN SHEET 2 - REVISED TO ADD SHEETS 21A, 33A, 33B-33C
PLAN SHEET 8A - REVISED NOTE UNDER ITEM 341 SIXTH NOTE FOR MINIMUM ASPHALT
CONTENT
PLAN SHEETS 8B - 8D - REPLACED DUE TO SHIFTING OF TEXT
PLAN SHEET 9A - REVISED TO ADD ITEMS 636-6001, 685-6003, AND 685-6004
PLAN SHEET 9B - REVISED DUE TO SHIFTING OF TEXT
PLAN SHEET 17 - REVISED TO ADD ITEMS 636-6001, 685-6003, AND 685-6004
PLAN SHEET 21A - ADDED STANDARD SHEET
PLAN SHEET 33A - ADDED STANDARD SHEET
PLAN SHEET 33B - ADDED STANDARD SHEET
PLAN SHEET 33C - ADDED STANDARD SHEET

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	6002		PREPARING ROW DOLLARS and CENTS	STA	35.500	1
	112	6002		SUBGRADE WIDENING (DENS CONT) DOLLARS and CENTS	STA	430.800	2
	132	6003		EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS	CY	920.000	3
	134	6004		BACKFILL (TY A OR B) DOLLARS and CENTS	STA	430.800	4
	164	6034		DRILL SEEDING (PERM) (RURAL) (SANDY) DOLLARS and CENTS	AC	9.930	5
	164	6053		DRILL SEEDING (TEMP)(WARM OR COOL) DOLLARS and CENTS	AC	9.930	6
	168	6001		VEGETATIVE WATERING DOLLARS and CENTS	MG	877.000	7
	169	6002		SOIL RETENTION BLANKETS (CL 1) (TY B) DOLLARS and CENTS	SY	720.000	8
	314	6009		EMULS ASPH (EROSN CONT)(MULTI) DOLLARS and CENTS	GAL	3,590.000	9
	315	6004		FOG SEAL (CSS-1H) DOLLARS and CENTS	GAL	1,744.000	10
	316	6173		AGGR(TY-B GR-3 SAC-B) DOLLARS and CENTS	CY	1,348.000	11
	316	6224		AGGR(TY-PB GR-4 SAC-B) DOLLARS and CENTS	CY	1,225.000	12

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	316	6281		ASPH (SPG 64-25) DOLLARS and CENTS	GAL	78,161.000	13
	316	6283		ASPH (SPG 70-25) DOLLARS and CENTS	GAL	56,600.000	14
	340	6191		D-GR HMA(SQ) TY-F SAC-A PG70-22 DOLLARS and CENTS	TON	99.000	15
	341	6009		D-GR HMA TY-B PG64-28 DOLLARS and CENTS	TON	14,390.000	16
	351	6006		FLEXIBLE PAVEMENT STRUCTURE REPAIR(10") DOLLARS and CENTS	SY	4,800.000	17
	354	6001		PLAN & TEXT ASPH CONC PAV(0" TO 1") DOLLARS and CENTS	SY	1,424.000	18
	354	6043		PLANE ASPH CONC PAV (1") DOLLARS and CENTS	SY	578.000	19
	356	6021		PAV JT UNDERSEAL (24") DOLLARS and CENTS	LF	68.000	20
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	107.000	21
	400	6006		CUT & RESTORING PAV DOLLARS and CENTS	SY	4.000	22
	401	6001		FLOWABLE BACKFILL DOLLARS and CENTS	CY	25.000	23
	402	6001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	54.000	24

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	403	6001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	261.000	25
	407	6015		STEEL H - PILING (HP 12 X 53) DOLLARS and CENTS	LF	612.000	26
	420	6020		CL C CONC (ABUT)(HPC)(EXTEND) DOLLARS and CENTS	CY	8.800	27
	420	6034		CL C CONC (CAP)(HPC)(EXTEND) DOLLARS and CENTS	CY	4.800	28
	420	6136		CL C CONC (RAC-R) DOLLARS and CENTS	CY	17.600	29
	422	6031		CONCRETE PAN GIRDER (EXTEND)(HPC) DOLLARS and CENTS	CY	96.000	30
	429	6007		CONC STR REPAIR (VERTICAL & OVER- HEAD) DOLLARS and CENTS	SF	176.000	31
	432	6001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	33.000	32
	432	6002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	57.000	33
	432	6031		RIPRAP (STONE PROTECTION)(12 IN) DOLLARS and CENTS	CY	4.000	34
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	5.000	35
	438	6006		CLEANING AND SEALING JOINTS (CL 3) DOLLARS and CENTS	LF	68.000	36

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	446	6025		CLEAN & PAINT EXIST PILING(SYS III-A) DOLLARS and CENTS	LS	1.000	37
	450	6006		RAIL (TY T223) DOLLARS and CENTS	LF	643.000	38
	454	6009		JOINT SEALANT DOLLARS and CENTS	LF	136.000	39
	462	6052		CONC BOX CULV (5 FT X 4 FT)(EXTEND) DOLLARS and CENTS	LF	39.000	40
	462	6055		CONC BOX CULV (6 FT X 4 FT)(EXTEND) DOLLARS and CENTS	LF	7.000	41
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	250.000	42
	464	6007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	264.000	43
	464	6008		RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	32.000	44
	464	6009		RC PIPE (CL III)(42 IN) DOLLARS and CENTS	LF	16.000	45
	466	6097		HEADWALL (CH - PW - 0) (DIA= 24 IN) DOLLARS and CENTS	EA	1.000	46
	466	6099		HEADWALL (CH - PW - 0) (DIA= 30 IN) DOLLARS and CENTS	EA	1.000	47
	466	6101		HEADWALL (CH - PW - 0) (DIA= 36 IN) DOLLARS and CENTS	EA	1.000	48

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	466	6103		HEADWALL (CH - PW - 0) (DIA= 48 IN) DOLLARS and CENTS	EA	2.000	49
	466	6104		HEADWALL (CH - PW - 0) (DIA= 54 IN) DOLLARS and CENTS	EA	1.000	50
	466	6105		HEADWALL (CH - PW - 0) (DIA= 60 IN) DOLLARS and CENTS	EA	2.000	51
	466	6107		HEADWALL (CH - PW - 0) (DIA= 72 IN) DOLLARS and CENTS	EA	2.000	52
	466	6132		HEADWALL (CH - PW - S) (DIA= 30 IN) DOLLARS and CENTS	EA	1.000	53
	466	6180		WINGWALL (PW - 1) (HW=5 FT) DOLLARS and CENTS	EA	1.000	54
	467	6181		SET (TY I)(S= 5 FT)(HW= 5 FT)(3:1) (C) DOLLARS and CENTS	EA	3.000	55
	467	6219		SET (TY I)(S= 6 FT)(HW= 5 FT)(4:1) (C) DOLLARS and CENTS	EA	2.000	56
	467	6388		SET (TY II) (24 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	3.000	57
	467	6390		SET (TY II) (24 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	24.000	58
	467	6394		SET (TY II) (24 IN) (RCP) (6: 1) (C) DOLLARS and CENTS	EA	1.000	59
	467	6419		SET (TY II) (30 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	21.000	60

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	467	6450		SET (TY II) (36 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	4.000	61
	467	6463		SET (TY II) (42 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	4.000	62
	480	6001		CLEAN EXIST CULVERTS DOLLARS and CENTS	EA	29.000	63
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	64
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	13.000	65
	506	6038	003	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	1,160.000	66
	506	6039	003	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	1,160.000	67
	506	6040	003	BIODEG EROSN CONT LOGS (INSTL) (8") DOLLARS and CENTS	LF	1,920.000	68
	506	6043	003	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	1,920.000	69
	512	6013		PORT CTB (DES SOURCE)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	240.000	70
	512	6025		PORT CTB (MOVE)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	240.000	71
	512	6037		PORT CTB (STKPL)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	240.000	72

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	530	6003		INTERSECTIONS (SURF TREAT) DOLLARS and CENTS	SY	566.000	73
	530	6006		DRIVEWAYS (SURF TREAT) DOLLARS and CENTS	SY	1,196.000	74
	533	6001		RUMBLE STRIPS (SHOULDER) DOLLARS and CENTS	LF	84,434.000	75
	540	6002		MTL W-BEAM GD FEN (STEEL POST) DOLLARS and CENTS	LF	1,681.000	76
	540	6006		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	16.000	77
	542	6001		REMOVE METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	600.000	78
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	14.000	79
	545	6001		CRASH CUSH ATTEN (INSTL) DOLLARS and CENTS	EA	2.000	80
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	2.000	81
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	2.000	82
	636	6001		ALUMINUM SIGNS (TY A) DOLLARS and CENTS	SF	16.000	83
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	8.000	84

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	ITEM NO	DESC CODE	S.P. NO.				
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	16.000	85
	644	6007		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	1.000	86
	644	6037		IN SM RD SN SUP&AM TYS80(1)SA(U-WC) DOLLARS and CENTS	EA	2.000	87
	658	6002		INSTL DEL ASSM (D-SW)SZ 1(FLX)GND(BI) DOLLARS and CENTS	EA	22.000	88
	658	6048		INSTL OM ASSM (OM-2Z)(FLX)GND DOLLARS and CENTS	EA	64.000	89
	662	6034		WK ZN PAV MRK NON-REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	660.000	90
	662	6111		WK ZN PAV MRK SHT TERM (TAB)TY Y-2 DOLLARS and CENTS	EA	4,625.000	91
	666	6041		REFL PAV MRK TY I (W)12"(SLD)(090MIL) DOLLARS and CENTS	LF	15.000	92
	666	6302		RE PM W/RET REQ TY I (W)4"(SLD)(090MIL) DOLLARS and CENTS	LF	86,316.000	93
	666	6311		RE PM W/RET REQ TY I (Y)4"(BRK)(090MIL) DOLLARS and CENTS	LF	9,170.000	94
	666	6314		RE PM W/RET REQ TY I (Y)4"(SLD)(090MIL) DOLLARS and CENTS	LF	37,398.000	95
	685	6003		REMOVE RDS FLASH BEACON ASSEMBLY DOLLARS and CENTS	EA	1.000	96

PROJECT SSW 2612-1-11
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Proposal Sheet
 TxDOT
 FORM 234-B I-61-5M

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	685	6004		INSTL RDS D FLSH BCN ASSM (SOLAR PWRD) and DOLLARS CENTS	EA	1.000	97

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GENERAL NOTES:

Item 7 Legal Relations and Responsibilities

The total area disturbed for this project is 19.44 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 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 local government that operates a separate storm sewer system.

Item 8 Prosecution and Progress

All project schedules will be prepared and submitted using one of the following software applications: Suretrack, Primavera, Microsoft Project or other approved software.

General

Pre-letting questions will be received up to 5 working days prior to the letting date and are to be submitted by e-mail to: Lane.Provence@txdot.gov and CC: Gus.Khankarli@txdot.gov and will be responded to accordingly. A file containing the consolidated questions and answers will be emailed to prospective bidders upon receipt of a written request to the above email addresses up to 3 working days prior to the letting date.

If portions of the right-of-way is used to store materials, equipment, and other uses with the approval of the engineer, materials, equipment, etc., must either be located outside the 16 feet traffic safety clearance zone or be adequately protected.

The slopes indicated on the typical sections may be varied when fixed features require slopes are re-established as directed by the engineer.

Any work necessary to provide temporary ingress and egress during construction (such as building gravel ramps, etc.) Will not be paid for directly, but shall be considered as subsidiary work to the various bid items.

Dust caused by construction operations shall be controlled by applying water in conformance with the requirements of item 204, "sprinkling". Sprinkling for dust control will not be paid for directly, but shall be considered as subsidiary work to the various bid items.

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There are approximately 3 "reference markers" within the project limits. If a marker needs to be moved for any reason during construction operations, it shall be the responsibility of the contractor to remove the marker, install it in a temporary location and then reinstall it in its correct permanent location. Both the temporary and permanent locations shall be on a line that is perpendicular to the original "station" along the roadway. The temporary location shall be at or near the right-of-way. The permanent location shall be as directed by the engineer.

The following standard detail sheets have been modified:

CH-PW-0 (MOD)
RAC-R (MOD)
CGRAD (MOD)

Remove all excess material from bridge substructure resulting from all construction including planing, seal coat and ACP overlays. This work will not be paid for directly, but shall be considered subsidiary to various bid items in the contract.

Item 100 Preparing Right Of Way

Preparing right of way will consist exclusively of removing trees in conflict with widening operations. Tree sizes are estimated as 50 - 12" Dia. Trees, 27 - 24" Dia. Trees, and 1 - 36" Dia. Tree.

Item 112 Excavation

Before grading had begun, the vegetative cover within the areas to be graded shall be bladed into a windrow outside the limits of the slopes. After all grading is complete; the vegetative cover shall be spread over the adjacent disturbed areas. This work is not paid for directly, but shall be considered as subsidiary work to the various bid items.

Prior to excavation and placement of embankment, the top-soil (6-inch depth) within the areas to be disturbed will be bladed into a windrow, or stockpiled, outside the limits of the fill slope. After all grading is completed; the top soil (6-inch depth) will be spread over the disturbed areas that will not receive concrete riprap. This work is not paid for directly, but shall be considered as subsidiary work to the various bid items.

Item 132 Embankment

The plasticity index will not exceed 25.

Item 134 Backfill

The backfill material used for this item can either be obtained from adjacent ditches or from areas outside the right-of-way. If material is used from adjacent ditches, the vegetative cover

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shall first be bladed into a windrow. After the pavement edges have been backfilled and the slopes and ditches have been graded, the vegetative cover shall be spread over the disturbed ditches and side slopes to within five feet of the pavement. If backfill material is provided by the contractor from areas outside the right-of-way, it shall not be obtained from any area that contains perennial plants (such as "bindweed" or "jointgrass") that would be detrimental to agricultural land.

Item 164 Seeding for Erosion Control

Perform planting operations in accordance with the recommendations contained in the latest version of the TxDOT manual "A Guide to Roadside Vegetation Establishment" developed by the Vegetation Management Section of the Maintenance Division.

Seeding may require more than one mobilization, depending upon the contractor's sequence of work.

Item 166 Fertilizer

Fertilize all areas of project to be seeded or sodded in accordance with the Amarillo District Vegetation Specification Sheet.

Item 168 Vegetative Watering

Vegetative watering is estimated at 0.25" per week placed over the seeded area to keep the soil in a moist state that promotes germination and growth. Begin application of the watering following a rain that presoaks the soil and continue for approximately 3 months, or as directed by the engineer. If rains occur that keep the soil moist, delay the watering. Provide the appropriate type and amount of equipment to necessary watering.

Item 169 Soil Retention Blankets

All Class 1 Slope Protection will be the roll-out type, having netting on both sides. Hydraulically placed materials will not be allowed.

Item 300 Asphalts, Oils, and Emulsions

Asphalt from different sources shall not be blended.

The "open" season for applying asphaltic materials and mixtures for the listed items shall be as follows, unless authorized otherwise in writing by the engineer:

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Items -----	Open season -----
314 & 315	All year
316	From May 1st through August 31st
340 & 341	From April 15th through October 31st

Item 314 Emulsion for Erosion Control

A 6 feet wide strip of finished material adjacent to each shoulder is to be treated with an emulsified asphalt mixture. The mixture may be placed in one or more applications at a total rate of 0.25 gallons per square yard, unless directed otherwise by the engineer. The homogeneous mixture may be composed of approximately 25% asphalt (MS-2 or SS-1) and 75% water, unless directed otherwise by the engineer.

Item 341 Dense Graded Hot Mix Asphalt (QC/QA)

D-GR HMA TY F (bridge overlay): Use aggregate that meets the SAC requirement of class A.

D-GR HMA TY B (widening): Use aggregate that meets the SAC requirement of class B.

Only fractionated RAP is allowed.

Use of RAS is not allowed.

Design the mixture using a Superpave Gyrotory Compactor (SGC).

The Dense-Graded Hot-Mix asphalt must have a minimum asphalt content of 5%.

A self-propelled, wheel mounted material transfer vehicle (MTV) capable of receiving hot mix from the haul trucks separate from the paver is required on all courses and all types of hot mix for this project. The MTV shall have a minimum storage capacity of approximately 25 tons, and equipped with a pivoting discharge conveyor and a means of completely remixing the hot mix prior to placement. The paver hopper shall be equipped with a separate surge storage insert with a minimum capacity of approximately 20 tons.

When laying ACP on a roadway which has two or more lanes and the work is being done under traffic, then the adjacent lane or lanes shall be overlaid by the end of the following day.

Make a smooth, clean, 1 inch deep butt joint where each end of the new pavement joins the existing pavement. Any method approved by the engineer can be used to make the joint.

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The district lab will perform a maximum of 2(two) design verification tests. If additional verification tests are needed, the contractor will be billed \$3,500.00 per each additional verification test required to obtain an approved asphaltic concrete pavement mix design.

The Contractor may only use a substitute PG binder one grade below the PG binder originally specified unless the substitute PG binder and the mixture made with the substitute PG binder has less than 3.5 mm of rutting on the Hamburg Wheel test (TEX-242-F) after the number of passes required for the originally specified binder. If this condition is met, the use of a substitute PG binder two grades below the PG binder originally specified may be allowed at the discretion of the Engineer. The above criteria must continue to be met during production and additional tests will be performed at a frequency determined by the engineer.

Provide a trackless asphalt for tack coat at a rate of 0.09-0.13 GAL/SY or as directed, subsidiary to this item. Tack coat all vertical joints with the trackless tack as directed.

If used, the IR bar read out screen must be visible at all times to the engineer.

Item 354 Planing and Texturing Pavement

The Contractor will retain ownership of planed materials.

Item 420 Concrete Substructures

Calcium nitrate, an inorganic corrosion inhibitor admixture, shall be added to Class "C" (HPC) and Class "S" (HPC) concrete at a dosage rate of 2.0 gal/cy.

Slope top of abutment caps, and bent caps, except the bearing seats, such that water will drain away from the backwall. This work will not be paid for directly, but shall be considered subsidiary to pertinent items.

Item 432 Riprap

Use Cap Option A with 20 GA metal flashing for riprap in contact with the abutment and wingwalls.

All riprap in contact with bridge abutments shall have joints made with a 6" fiber expansion joint material and be sealed with a joint sealer as approved by the engineer.

Item 462 Concrete Box Culverts and Storm Drains

Joint material for reinforced concrete pipe shall be either cold applied preformed plastic gaskets or cold applied plastic asphalt Sewer joint compound.

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Backfill pipe up to the springline with granular material. The ponding method of backfilling will be allowed for the granular material only.

Item 464 Reinforced Concrete Pipe

Joint material for reinforced pipe 30" in diameter or smaller shall be either cold applied preformed plastic gaskets or cold applied plastic asphalt sewer joint compound. Joint material for pipes larger than 30" diameter shall be cold applied plastic asphalt sewer joint compound.

Bedding for pipe culverts shall be 6 inches of sand. The excavation required to place the sand will not be paid for directly but will be considered subsidiary to this item.

Backfill pipe up to the springline with granular material. The ponding method of backfilling will be allowed for the granular material only.

Item 467 Safety End Treatment

Pre-cast Safety End Treatments are allowed; however, a cast-in-place concrete apron will be required as shown on the plans & will be subsidiary to the Safety End Treatment.

Item 502 Barricades, Signs, and Traffic Handling

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Temporary rumble strips will be required as shown on WZ(RS)-14 regardless of loose gravel, and/or soft or bleeding asphalt. Adjust the traffic control setup such that rumble strips are not placed in areas of heavily rutted pavements, unpaved surfaces, or horizontal curves.

The contractor shall have the option of using either plastic drums, vertical panels, grabber cones or a combination where drums are shown as channelizing devices, as approved by the engineer. Plastic drums shall be used in all transition areas in accordance with BC(8)-14 and WZ(TD)-13.

Furnish and install "soft shoulder" signs as directed by the engineer. This work will not be paid for directly, but shall be considered as subsidiary to item 502, "barricades, signs and traffic handling".

Lane closure length shall be limited to length that can be completed and opened to traffic by the end of each work day unless approved by the engineer.

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If more than one lane closure location is desired a minimum of 2 miles passing zone shall be required between each location.

Notify the engineer 24 hours prior to any lane closure.

Item 504 Field Office and Laboratory

The following buildings will be required for this project:

One Type (D) structure, asphalt mix control laboratory

Each building shall be provided before work is begun on the pertinent construction items for which it is needed.

Any laboratory furnished shall be a minimum of 10 ft in width.

Chain link security fence will be required to be placed around the perimeter of all field offices. The dimensions of the fence will be as directed by the engineer.

The Type D structures shall be equipped with the following in addition to requirements specified under item 504:

- a. Safety equipment
 - (1) One eye wash station
 - (2) One fire extinguisher
 - (3) One first aid kit

Furnish a Type D structure for the asphalt mix control laboratory for the engineer's exclusive use. In addition to requirements of item 504, this structure shall have a minimum height of 8 feet and provide a minimum 400 square feet gross floor area for permanently located plants or 200 square feet for temporary located plants serving one project. The floor area will be partitioned into a minimum of two interconnected rooms, each room furnished with an exterior door and a minimum of two windows. The floor shall have sufficient strength to support the testing equipment and have an impervious covering.

The Type D structures shall be adequately air conditioned and be furnished with a minimum of one desk, three chairs, one file cabinet, a telephone and one built-in equipment storage cabinet for the storage of nuclear equipment. The cabinet shall be a minimum of 3 feet wide by 2 feet deep by 3 feet high and shall have provisions for locking security. The structure shall be provided with a 240-volt electrical service entrance . The service shall consist of a minimum of 4 - 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. The structure shall have a minimum of 2 convenience outlets per wall, and a utility sink with an

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adequate clean potable water supply for testing. The state building shall be equipped with a minimum hot water dispenser or hot water heater capable of generating 1 gallons of water per use at 140 degree f with adequate water pressure. Space heaters for heating the structure are unacceptable. Portable structures shall be support blocked for stability and shall be tied down.

If needed, each building shall be moved to a new location as directed by the engineer. Any building that is no longer required on the job after completion of the pertinent construction items may be released to the contractor upon consent of the engineer.

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

Erosion control devices shall be installed as needed in coordination with the work progress, or as directed by the engineer.

Item 512 Portable Concrete Traffic Barrier

The state will furnish the portable concrete traffic barrier sections for Item 512, "Port. Concrete Traffic Barrier (Des Source)", the state shall supply sufficient hardware to connect the sections together. The sections will be available at the intersection of US 60 and SH152.

When the engineer determines that all phases of construction involving portable concrete traffic barriers are complete, the contractor shall remove and deliver the PCTB sections, complete with all mounting hardware, to the intersection of US 60 and SH152. The engineer will designate a location for unloading the PCTB sections. This work will be measured and paid for at the unit price bid for item 512, "Port Concrete Traffic Barrier (STKPL)".

Item 533 Shoulder Texturing

Use Option 1 for installation of the continuous milled depressions, as shown on the Depressed Shoulder Texturing Standard Sheet RS(4)-13.

Item 542 Removing Metal Beam Guard Fence

All MBGF, GET & TAS materials determined by the engineer to be salvageable shall remain property of the Department. Haul and stockpile all salvageable materials to the TxDOT Maintenance yard in Pampa.

Item 544 Guardrail End Treatments

Use Single Guardrail End Treatment (Ty III)(Wood Post).

Item 644 Small Roadside Sign Supports and Assemblies

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All slip base signs will have a triangular slip base with a 2-bolt clamp to prevent rotation of signpost.

A 7" x 1/2" diameter galvanized rod or #4 rebar shall be installed in the sign stub as shown on SMD(SLIP-1)-08 to prevent rotation of the sign stub in the concrete footing.

The exact location of the large and small roadside signs shall be as designated by the engineer.

The existing riprap aprons shall be removed and disposed of as approved by the engineer. This work shall not be paid for directly, but shall be considered subsidiary to the removal of foundations under this item.

Probe before drilling for foundations to determine the location of all utilities and structures. This work will not be paid for directly, but shall be considered subsidiary to bid items involved.

Details for standard signs not shown on the signing standards of the signing detail plan sheets shall be in conformance with the department's "standard Highway Sign Designs for Texas" Manual, Latest Edition.

Item 658 Delineator and Object Marker Assemblies

For all ground mount applications, provide hollow or tubular posts embedded in concrete using plastic wedged anchor system.

Item 662 Work Zone Pavement Markings

The adhesive used for temporary flexible-reflective roadway marker tabs shall be butyl rubber pads.