

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 7/06/2016

Control	0764-02-011
Project	C 764-2-11
Highway	FM 272
County	HUNT

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: C 764-2-11

CONTROL: 0764-02-011

COUNTY: HUNT

LETTING: 07/07/2016

REFERENCE NO: 0630

PROPOSAL ADDENDUMS

- PROPOSAL COVER
- BID INSERTS (SH. NO.: 1-7,2-7,3-7,4-7,5-7,6-7,& 7-7)
- GENERAL NOTES (SH. NO.: D,E,F,G,H,I,J,&K)
- SPEC LIST (SH. NO.: 1-2)
- SPECIAL PROVISIONS:
- ADDED:
- DELETED:
- SPECIAL SPECIFICATIONS:
- ADDED:
- DELETED:
- OTHER: PLAN SHEETS

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS

SHEET 1-7: ADDED ITEM 112-6001

SHEETS 2-7 thru 7-7: ITEMS SHIFTED DUE TO REVISION ABOVE
SPECIFICATION DATA

SHEET D: REVISED NOTES FOR ITEM 247

SHEET F: REVISED NOTES FOR ITEM 400

SHEET G: REMOVED NOTES FOR ITEM 430 AND ADDED NOTES FOR ITEM 462

SHEET J: REVISED NOTES FOR ITEM 662

SHEETS D-K: SHIFTED DUE TO ABOVE REVISIONS

SPEC LIST

SHEET 1-2: ADDED ITEM 112

PLAN SHEETS

SHEET 5A: (GEN NOTES)REVISED NOTES FOR ITEM 247 AND NOTES SHIFTED DUE TO REVISIONS ABOVE

SHEET 5B: (GEN NOTES)REVISED NOTES FOR ITEM 400 AND NOTES SHIFTED DUE TO REVISIONS ABOVE

SHEET 5C: (GEN NOTES)REMOVED NOTES FOR ITEM 430, ADDED NOTES FOR ITEM 462

SHEET 5D: (GEN NOTES)REVISED NOTES FOR ITEM 662 AND NOTES SHIFTED DUE TO REVISIONS ABOVE

SHEET 5E: (GEN NOTES) NOTES SHIFTED DUE TO REVISIONS ABOVE

DESCRIPTION OF ABOVE CHANGES (CONTINUED)
(INCLUDING PLANS SHEET CHANGES)

SHEET 6: (E&Q) ADDED ITEM 112-6001 AND ITEMS SHIFTED DUE TO REVISION
SHEET 6A: (E&Q) ITEMS SHIFTED DUE TO REVISIONS ABOVE
SHEET 7: (QUAN SUM) ADDED QUANTITY FOR ITEM 112-6001

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	321.450	1
	104	6017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	179.000	2
	110	6003		EXCAVATION (SPECIAL) DOLLARS and CENTS	CY	91.000	3
	112	6001		SUBGRADE WIDENING (ORD COMP) DOLLARS and CENTS	STA	321.450	4
	132	6017		EMBANKMENT (VEHICLE)(ORD COMP)(TY A) DOLLARS and CENTS	CY	72.000	5
	132	6019		EMBANKMENT (VEHICLE)(ORD COMP)(TY B) DOLLARS and CENTS	CY	105.000	6
	134	6002		BACKFILL (TY B) DOLLARS and CENTS	STA	321.450	7
	152	6001		ROAD GRADER WORK (ORD COMP) DOLLARS and CENTS	STA	321.450	8
	164	6009		BROADCAST SEED (TEMP) (WARM) DOLLARS and CENTS	SY	88,584.000	9
	164	6011		BROADCAST SEED (TEMP) (COOL) DOLLARS and CENTS	SY	88,584.000	10
	164	6015		STRAW/HAY MLCH SEED(PERM)(RURAL)(CLAY) DOLLARS and CENTS	SY	177,166.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	168	6001		VEGETATIVE WATERING DOLLARS and CENTS	MG	2,976.400	12
	216	6001		PROOF ROLLING DOLLARS and CENTS	HR	6.000	13
	247	6056		FL BS (CMP IN PLC)(TY D GR 4)(FNAL POS) DOLLARS and CENTS	CY	114.000	14
	247	6076		FL BS (CMP IN PLC)(TY D GR 4) (6") DOLLARS and CENTS	SY	92,126.000	15
	251	6025		REWORK BS MTL (TY B) (6") (ORD COMP) DOLLARS and CENTS	SY	81,496.000	16
	275	6001		CEMENT DOLLARS and CENTS	TON	1,493.000	17
	275	6014		CEMENT TREAT (MX EXST MTL & NW BS)(8") DOLLARS and CENTS	SY	92,126.000	18
	316	6029		ASPH (RC-250) DOLLARS and CENTS	GAL	25,796.000	19
	316	6076		AGGR(TY-B GR-3 SAC-A) DOLLARS and CENTS	CY	877.000	20
	316	6126		AGGR(TY-PB GR-4 SAC-A) DOLLARS and CENTS	CY	768.000	21
	316	6177		AGGR(TY-B GR-5 SAC-B) DOLLARS and CENTS	CY	658.000	22
	316	6419		ASPH (AC-15P, AC-20-5TR OR AC-20XP) DOLLARS and CENTS	GAL	75,544.000	23

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	354	6122		PLAN & TEXT ASPH CONC PAV (0" TO 10") DOLLARS and CENTS	SY	680.000	24
	401	6001		FLOWABLE BACKFILL DOLLARS and CENTS	CY	201.800	25
	402	6001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	264.000	26
	432	6023		RIPRAP (STONE COMMON)(DRY)(8 IN) DOLLARS and CENTS	CY	14.000	27
	432	6024		RIPRAP (STONE COMMON)(DRY)(12 IN) DOLLARS and CENTS	CY	23.000	28
	451	6004		RETROFIT RAIL (TY T131RC) DOLLARS and CENTS	LF	624.000	29
	462	6049		CONC BOX CULV (4 FT X 4 FT)(EXTEND) DOLLARS and CENTS	LF	2.000	30
	462	6055		CONC BOX CULV (6 FT X 4 FT)(EXTEND) DOLLARS and CENTS	LF	12.000	31
	464	6003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	58.000	32
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	58.000	33
	464	6007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	4.000	34
	464	6008		RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	50.000	35

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	466	6095		HEADWALL (CH - PW - 0) (DIA= 18 IN) DOLLARS and CENTS	EA	1.000	36
	466	6152		WINGWALL (FW - 0) (HW=5 FT) DOLLARS and CENTS	EA	1.000	37
	466	6195		WINGWALL (PW - 2) (HW=6 FT) DOLLARS and CENTS	EA	2.000	38
	467	6356		SET (TY II) (18 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	3.000	39
	467	6388		SET (TY II) (24 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	6.000	40
	467	6417		SET (TY II) (30 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	2.000	41
	467	6448		SET (TY II) (36 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	2.000	42
	496	6007		REMOV STR (PIPE) DOLLARS and CENTS	LF	148.000	43
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	44
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	14.000	45
	506	6001	003	ROCK FILTER DAMS (INSTALL) (TY 1) DOLLARS and CENTS	LF	1,110.000	46
	506	6002	003	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	180.000	47

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	506	6011	003	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	1,290.000	48
	506	6038	003	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	2,680.000	49
	506	6039	003	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	2,680.000	50
	530	6003		INTERSECTIONS (SURF TREAT) DOLLARS and CENTS	SY	223.000	51
	530	6004		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	223.000	52
	530	6005		DRIVEWAYS (ACP) DOLLARS and CENTS	SY	145.000	53
	530	6006		DRIVEWAYS (SURF TREAT) DOLLARS and CENTS	SY	744.000	54
	530	6009		TURNOUTS (SURF TREAT) DOLLARS and CENTS	SY	986.000	55
	530	6016		DRIVEWAYS (BASE) DOLLARS and CENTS	SY	1,338.000	56
	540	6002		MTL W-BEAM GD FEN (STEEL POST) DOLLARS and CENTS	LF	1,050.000	57
	540	6006		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	12.000	58
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	12.000	59

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	560	6006		MAILBOX INSTALL-M (TWG-POST) TY 2 DOLLARS and CENTS	EA	3.000	60
	560	6007		MAILBOX INSTALL-S (WC-POST) TY 3 DOLLARS and CENTS	EA	23.000	61
	560	6008		MAILBOX INSTALL-D (WC-POST) TY 3 DOLLARS and CENTS	EA	8.000	62
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	22.000	63
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	1.000	64
	644	6007		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	10.000	65
	644	6033		IN SM RD SN SUP&AM TYS80(1)SA(U) DOLLARS and CENTS	EA	1.000	66
	644	6060		IN SM RD SN SUP&AM TYTWT(1)WS(P) DOLLARS and CENTS	EA	95.000	67
	644	6061		IN SM RD SN SUP&AM TYTWT(1)WS(T) DOLLARS and CENTS	EA	2.000	68
	658	6002		INSTL DEL ASSM (D-SW)SZ 1(F LX)GND(BI) DOLLARS and CENTS	EA	36.000	69
	658	6050		INSTL OM ASSM (OM-2Z)(FLX)SRF DOLLARS and CENTS	EA	62.000	70
	658	6062		INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI) DOLLARS and CENTS	EA	18.000	71

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	662	6032		WK ZN PAV MRK NON-REMOV (Y)4"(BRK) DOLLARS and CENTS	LF	5,190.000	72
	662	6034		WK ZN PAV MRK NON-REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	37,180.000	73
	662	6111		WK ZN PAV MRK SHT TERM (TAB)TY Y-2 DOLLARS and CENTS	EA	2,250.000	74
	666	6048		REFL PAV MRK TY I (W)24"(SLD)(100MIL) DOLLARS and CENTS	LF	62.000	75
	666	6303		RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	64,336.000	76
	666	6312		RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL) DOLLARS and CENTS	LF	5,190.000	77
	666	6315		RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	37,180.000	78
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	724.000	79
	5001	6002		GEOGRID BASE REINFORCEMENT (TY II) DOLLARS and CENTS	SY	92,126.000	80
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	2.000	81
	6185	6003		TMA (MOBILE OPERATION) DOLLARS and CENTS	HR	50.000	82

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GENERAL NOTES

General:

This project contains the following modified standard sheets: TYPE T131RC (MOD)

Questions prior to letting may be submitted by email to the names listed below and will be answered by email:

Greenville Area Office

Tommy Henderson, P.E. – tommy.henderson@txdot.gov

Jesse Herrera, P.E. – jesse.herrera@txdot.gov

A file containing these questions and answers will be available for review by other contractors.

Dispose of waste materials at an approved site. Furnish written approval from the property owner before disposal of waste materials.

Locate equipment a minimum of 30 feet from roadway when possible. Place signs and barricades as approved.

Stockpile sites for construction materials will be approved. Give at least 48 hours notification prior to stockpiling material.

Item 2 Instructions to Bidders:

View plans on-line or download from the web at:

<http://www.txdot.gov/business/letting-bids/plans-online.html>

Order plans from any of the plan reproduction companies shown on the web at:

<http://www.txdot.gov/business/letting-bids/repro-companies.html>

Item 5 Control of the Work:

The responsibility for the construction surveying on this contract will be in accordance with Section 5.9.3, Method C.

Item 7 Legal Relations and Responsibilities:

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

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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.

Item 8 Prosecution and Progress:

Provide a Bar Chart progress schedule for this project.

Working days will be computed and charged in accordance with Article 8.3.1.4 Standard Work Week.

Only one bridge may be closed at any given time during the construction period of this contract. The bridge under construction must be determined by the Engineer to be substantially complete and opened to traffic, prior to the start of construction and corresponding road closure on the subsequent bridge site.

Limit pavement rework/construction operations to completed two mile sections.

Item 100 Preparing Right of Way:

Remove all trees 40 foot from centerline on both sides of roadway. At cross structures, remove trees to ROW line and within 100' of the structure, parallel to the roadway. Remove underbrush and neatly trim trees and overhanging branches to produce a 60' vertical clear area within the limits of Prep ROW. Remove any trees or underbrush that interferes with any construction operation, including relocation of ditches or other drainage elements. Receive approval of equipment used to trim limbs. A boom axe will not be allowed. Remove all trimmed debris from the ROW, unless otherwise approved.

Item 112 Subgrade Widening:

Use a milling machine or saw to produce a smooth vertical cut in existing pavement.

Item 132 Embankment:

Test potential embankment sources using Tex-145-E to determine the presence and concentration of sulfates.

Embankment sources containing sulfates that meet specification requirements may be used as fill material provided it is placed with at least one foot of separation from materials to be treated with lime, cement, or other calcium-based stabilizers. Greater than 3,000 ppm of sulfates - Do not bring this soil onto project.

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Item 152 Road Grader Work:

Use road grader work to windrow sod (6" depth), construct slopes, prepare driveways for surfacing, grade ditches as necessary to establish drainage and redistribute sod on finished slopes.

Cut ditches to proposed grade in the immediate vicinity of cross drain structures prior to placing Storm Water BMP devices at the early stages of the project.

If excess material is generated under this item, it may be utilized to construct slopes, or wasted as approved.

Item 164 Seeding for Erosion Control, 166 Fertilizer:

Apply fertilizer with a ratio of 3-1-2 over the areas to be seeded. This work will not be paid for directly, but will be considered subsidiary.

Item 168 Vegetative Watering:

Use water trucks equipped with a sprinkler system adequate to permit coverage of the entire seeded area from the roadbed. This equipment must be available to perform watering throughout the duration of vegetative establishment.

Water all seeded areas the day seed is applied. Thereafter, maintain the seeded areas in a well-watered condition throughout the duration of vegetative establishment.

Item 247 Flexible Base:

Grading requirements

Tests to be in accordance with TxDOT Standard Test Methods

Soil Constants

Item Desc.	Linear Shrinkage	LL	Wet Ball	WBMV(incr. passing #40 sieve)
Item 247 Flex Base	6.0 max.	40 max.	40 max.	20% max.

PERCENT RETAINED ON SIEVE:

1-3/4"	7/8"	3/8"	No. 4	No. 40
0	10-35	30-50	45-65	70-85

Flexible Base will not contain more than 1% by weight of clay balls.

Place blue top hubs for alignment and elevations of new base at centerline and edge of pavement.

Measure roadway profile smoothness after the cover prime is placed.

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Provide all profile measurements to the Engineer in electronic data files within 3 days after placement of the cover prime coat using the format specified in Tex-1001-S. The Engineer will use Department software to evaluate longitudinal profiles to determine areas requiring corrective action. Correct 0.1-mi.sections having an average international roughness index (IRI) value greater than 100.0 in. per mile to an IRI value of 100.0 in. per mile or less. **The average IRI for the left and right wheel paths will be used to determine acceptance for each 0.1-mi. section. However, the Engineer reserves the right to have the contractor correct isolated imperfections even if the 0.1-mi. section has a passing IRI. This work will be performed at the contractor's expense.**

Re-profile and correct sections that fail to maintain ride quality until placement of the **first seal coat**, as directed. Correct re-profiled sections until specification requirements are met, as approved. **In the spirit of partnering, the department will participate in 50% of an agreed upon cost of repair for any section that has to be subjected to traffic throughout the winter with only a cover prime coat.**

Item 251 Reworking Base Courses:

Full depth HMAC patching and stabilized areas of various depths are to be expected and are to be reworked into existing base. Stabilized areas may include but are not limited to cement, fly ash, or asphalt treated base.

The finished roadway must match existing grades at project limits, highway intersections and bridges. In these areas, salvage existing base and remove sufficient subgrade material to construct the full-depth proposed pavement section, according to the transition details shown in the plans. Note that bridge decks only will have asphaltic pavement removed - bridge approach subgrade will need to be excavated for the deck removal depth and additional roadway flex base. This removal will not be paid for directly, but will be considered subsidiary to the various bid items. Excess subgrade material generated by these transitions may be utilized to construct slopes, or wasted as approved.

Item 275 Cement Treatment (Road Mixed):

Cement stabilized flexible base strength requirement is 300 psi minimum (7 day unconfined compressive strength). Percent cement shown in plans is preliminary. TxDOT will test project materials during construction for target strength and may adjust percent cement.

Microcrack areas where flexible base widths accept full width of roller.

In narrow widening areas where road mixing equipment cannot be operated in an effective manner, mix flexible base and cement off site, then place in widening area.

Subgrade, embankment or backfill suspected of containing sulfates will be tested in accordance with Tex-145-E by the Department. Subgrade, embankment or backfill material within one foot of any area to be treated using cement is subject to the following restriction:

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Greater than 7,000 ppm – Do not treat with any cement or other calcium based stabilizers. Material within one foot of any area to be treated with cement or other calcium based stabilizers must be removed or processed as directed.

Item 300 Asphalts, Oils, and Emulsions:

Provide 1L (1qt.) clean and dry screw top or friction-lid sampling cans as directed.

Furnish at least one sample of each type of asphalt used on the project for QA/QC purposes.

Item 302 Aggregates for Surface Treatments:

Grade 5 Modified Grading Requirements

CUMULATIVE PERCENT RETAINED ON SIEVE:

1/2"	3/8"	No. 4	No. 8	No. 200
0	0-5	30-80	85-100	95-100

The decantation requirement for Grade 5 Modified aggregate is 4% maximum.

The requirements for Flakiness Index, Magnesium Sulfate Soundness, and Los Angeles Abrasion are waived for the Grade 5 Modified aggregate.

Use unmodified AC, PG, or emulsion for precoating aggregate.

Use liquid antistrip or other approved antistrip agent complying with the requirements of Item 301 Asphalt Antistripping Agents. The aggregate will be evaluated for moisture susceptibility using test method TEX-530-C.

Place aggregate stockpile at intersection of FM 272 and FM 1566.

Item 316 Surface Treatments:

Unless otherwise permitted by the Engineer in writing, the open season for asphalt placement will be:

May 15- August 31 for AC

Permission to place asphalt outside of the open season may require the contractor to place a fog seal at the contractor's expense.

***Rates For Construction Projects**

First Course

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ITEM	APPLICATION	
	Cover Prime	1 st Course
*Asphalt Type	RC-250	AC-15P or AC-20-5TR or AC-20XP
*Asph. Rate (Gal/SY)	0.28	0.46
Aggregate Type	B or L	B or L
Aggregate Grade	5 or Mod 5	3
Aggr. Rate (CY/SY)	1:140	1:105
Min. Cure Time	14 days **	

Second Course

ITEM	APPLICATION	
	2 nd Course	
*Asphalt Type	AC-15P or AC-20-5TR or AC-20XP	
*Asph. Rate (Gal/SY)	0.36	
Aggregate Type	PB or PL	
Aggregate Grade	4	
Aggr. Rate (CY/SY)	1:120	

* The information above is intended to provide general guidance and as a basis of estimate. Based on the season and weather conditions at the time, the engineer will determine the asphalt type and rates to be used at the time of application.

** Or as approved by the Engineer

Item 354 Planing and Texturing Pavement:

Remove existing seal coat applications from bridge deck – use caution to not damage the concrete bridge deck.

The contractor shall dispose of millings (material - multiple seal coats).

Item 400 ~ Excavation and Backfill for Structures:

Excavation and backfill for bridge, culvert and Safety End Treatment construction/installation will be subsidiary to Item 460, 462, 464 and 467.

Item 402 ~ Trench Excavation Protection:

Ensure that trench side protection is provided as necessary for conditions.

Item 421 Hydraulic Cement Concrete:

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For structural concrete, if the air content is more than 1.5% below the required air, follow manufacturer recommendations to add the necessary approved air-entraining agent (AEA) to increase the air content at the job site. Limit the addition of AEA in the field to one trial. Do not reject the load of concrete due to low air content, but accept based on strength tests.

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

Item 432 ~ Riprap:

The Engineer may adjust placement of riprap in the field.

Filter fabric required for stone riprap.

Item 450 ~ Railing:

Ensure that no rail ends are left exposed overnight.

Item 462 ~ Concrete Box Culverts and Drains:

Excavation, backfill embankment, cut and restore pavement, labor, materials, etc. will be subsidiary to this Item.

Removal and disposal of headwalls and wing walls will be subsidiary to this Item

Item 464 ~ Reinforced Concrete Pipe:

Excavation, backfill embankment, cut and restore pavement, pipe saw cutting, labor, materials, etc. will be subsidiary to this Item.

Item 466 ~ Headwalls and Wingwalls:

Unless shown in the plans to obtain from offsite source, obtain headwall and wingwall backfill from ROW and perform grading to shape ditch to headwall/wingwall, per Engineers directions. This work will be subsidiary to this Item.

Item 467 ~ Safety End Treatment:

Parallel pipe culverts ~ 30" diameter and smaller require precast SETs.

Riprap aprons for precast SETs are not required.

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Repair damage culvert ends prior to SET installation. Straighten CMP ends by straightening or cutting off damaged ends. Paint cut off ends with zinc paint. Repair minor damaged RCP ends with epoxy mortar. This work will be subsidiary to this Item.

On existing CMP culverts ~ for mitered metal ends, construct concrete cast in place SETs or remove the mitered ends and install/construct SETs.

During SET installation, match SET flow line grade with the culvert flow line grade.

Unless shown in the plans to obtain from offsite source, obtain SET backfill from ROW and perform grading to shape ditch to SET, per Engineers directions. This work will be subsidiary to this Item.

Item 496 ~ Removing Structures:

Removal and relocating of precast SETs at culverts will be subsidiary to culvert removal.

Item 502 Barricades, Signs and Traffic Handling:

All flaggers are required to wear a white hard hat while performing flagging operations.

The traffic control plan for this contract consists of the installation and maintenance of warning signs and other traffic control devices shown in the plans, specification data which may be included in the general notes, applicable provisions of the Texas Manual on Uniform Traffic Control Devices (TMUTCD), traffic control plan sheets included in the plans, standard BC sheets and Item 502 of the Standard Specifications.

Do not begin Item 502, Barricades, Signs, and Traffic Handling, on the roadway until both of the following conditions are met:

1. The work schedule is approved.
2. No more than 5 workdays will pass between the beginning of Item 502 and the actual commencement of roadway work bid items.

The final estimate will be withheld until all disturbed areas are covered with at least 70% perennial vegetative cover.

Correct all deficiencies within the time frame noted on the Traffic Control Device Inspection Form 599. Failure to make corrections within time frame specified may result in no payment for this Item for the month of the noted deficiency.

Ensure that both travel lanes are open at night.

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Provide access to private property and Public Roads at all times.

Utilize Standard TCP(2-2b)-12 for pavement rehabilitation and shallow culvert replacement operations. During bridge deck milling operation and bridge rail/MBGF installation utilize the detour TCP provided in the plan set.

Provide pilot car during one lane/two way traffic operations.

Road closures must be approved by the Engineer. Provide a two week advance notice to the Engineer prior to desired roadway closure period. Begin display of closure information on PCMBs two weeks prior to roadway closure.

Item 506 Temporary Erosion, Sedimentation & Environmental Controls:

The Temporary Erosion Control measures for this project will consist of using the following items, as directed:

1. Temporary Silt Fence
2. Rock Filter Dams

Silt fences will remain the property of the Contractor upon completion of the project. The final estimate will not be released until all silt fences have been properly removed, or as directed and 70% establishment of vegetative cover is obtained.

Acquire approval for any change to the location of temporary sediment fence, as shown in the plans, prior to installation. Placement of erosion protection devices may be altered, as directed, to satisfy the requirements of the SW3P.

The pay item to remove rock filter dams will require only a partial removal after 70 percent perennial vegetation has been established and approved. When removing the rock filter dams, leave the lower layer of rock adjacent to the ground in place so as not to disturb the soil.

The total disturbed area for the project is 22.06 acres.

The disturbed area in this project, all project locations in the Contract, and Contractor project specific locations (PSLs) within one mile of the project limits 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. Obtain any required authorization from the TCEQ for any Contractor PSLs for construction support activities on or off ROW. When the total area disturbed for all projects in the Contract and PSLs within one mile of the project limits exceeds five acres, provide a copy of the Contractors NOI for PSLs on the ROW (to the appropriate MS4 operator when on an off-system route).

Item 530 Intersections, Driveways and Turnouts:

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Dirt driveway shaping/construction will be subsidiary to Item 134.

Item 560 Mailbox Assemblies:

Install new mailboxes unless the property owner chooses to have an existing, compliant mailbox reinstalled. Return all custom non-compliant mailboxes to the property owner.

All new mailboxes furnished and installed by the contractor will display the address number using one inch (1") adhesive back numbering. The color, type, and style of numbering shall be consistent throughout the project.

Item 644 Small Roadside Sign Support and Assemblies:

Upon removal of sign assemblies, deliver sign faces to the TxDOT Greenville Area Office, 3001 I-30 East, Greenville, TX. Dispose of foundations, posts, and hardware.

Use the Poz-Loc style wedge anchor system for TWT posts.

Use the Southern Plains style triangular slip base for 10BWG and Schedule 80 posts.

Once the cover prime is completed, the Paris District Traffic Operations office will field verify the need and spacing of chevrons. If this verification results in fewer materials, the Paris District will purchase the excess signs at invoice price.

Stake proposed sign locations and obtain approval of locations prior to placing foundations.

Remove the existing city street and county road topper from city and county signs and install them onto the new city street and county road stop sign assemblies. This will not be paid for directly but shall be considered subsidiary to Item 644.

TxDOT personnel will determine curve warning sign speeds by Ball Bank device after cover prime completion. TxDOT will then inform the contractor of the appropriate warning speed sign to order for each curve.

Item 662 Work Zone Pavement Markings:

Non-removable markings may be paint and beads.

Place flexible reflective roadway tabs in accordance with the current WZ (STPM) prior to seal coat operations. Place tabs to indicate the beginning and ending of no passing zones.

Cut, remove and properly dispose of the upright portions of all work zone tabs prior to acceptance of any roadway. Remove entire tab when located on HMAC or concrete surfaces.

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Item 666 Reflectorized Pavement Markings:

No contract stripe will be placed unless the inspector is present and at least 24 hours advance notice has been given by the Contractor.

Lay out pilot lines for approval 24 hours prior to all final pavement marking applications.

Use equipment with footage counters capable of measuring the linear footage placed. Calibrate counters prior to the beginning of striping operations.

Use a double-drop bead system with an application rate of 7.0 lbs/gal Type II and 7.0 lbs/gal Type III beads. Apply the Type II beads before applying Type III beads. Use a gravity flow applicator to funnel beads onto the stripe. Reduce truck speed enough to ensure that the beads drop onto the stripe and do not roll in the paint film.

Due to problems in traffic handling, do not place a dash center stripe and edge line at the same time.

TXDOT personnel will re-establish no pass zones. Provide five day prior notice to TXDOT personnel.

Item 5001 Geogrid Base Reinforcement:

Install Geogrid with at least a 1 ft. overlap along the longest joint when construction sequencing allows as determined by the Engineer.

Install Geogrid per manufacturer's specifications as well with the following exceptions / inclusions:

1. Cascade Base onto Geogrid using a bulldozer to a depth of at least six inches so that no equipment has direct contact with Geogrid. Raise dozer blade gradually as each lift is pushed out over the Geogrid.
2. Do not operate rubber tired equipment directly on Geogrid unless allowed by the Engineer. Should operating rubber tired equipment directly on Geogrid be allowed, operate at no more than 5 mph, do not turn tires on the Geogrid or make sudden stops and starts which causes excessive deformation waves. Keep Geogrid taut and flat. Adjustments to Geogrid installation or construction methods may be directed by the Engineer to minimize deformation waves.
3. Sufficiently compact unbound buffer layer directly above Geogrid to achieve the required density in all subsequently constructed pavement layers.

CONTROL : 0764-02-011
PROJECT : C 764-2-11
HIGHWAY : FM 272
COUNTY : HUNT

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 NOVEMBER 1, 2014.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (100)
ITEM 104 REMOVING CONCRETE
ITEM 110 EXCAVATION (132)
ITEM 112 SUBGRADE WIDENING (110)(132)(204)
ITEM 132 EMBANKMENT (100)(160)(204)(210)(216)(260)(400)
ITEM 134 BACKFILLING PAVEMENT EDGES (162)(166)(168)(300)(314)
ITEM 152 ROAD GRADER WORK (110)(132)(150)(154)(156)
ITEM 164 SEEDING FOR EROSION CONTROL (162)(166)(168)
ITEM 168 VEGETATIVE WATERING
ITEM 216 PROOF ROLLING (210)
ITEM 247 FLEXIBLE BASE (105)(204)(210)(216)(520)
ITEM 251 REWORKING BASE COURSES (204)(210)(216)(247)(520)
ITEM 275 CEMENT TREATMENT (ROAD-MIXED) (132)(204)(210)(216)(247)
(300)(310)(520)
ITEM 316 SEAL COAT (210)(300)(302)(340)(520)
ITEM 354 PLANING AND TEXTURING PAVEMENT
ITEM 401 FLOWABLE BACKFILL (421)
ITEM 402 TRENCH EXCAVATION PROTECTION
ITEM 432 RIPRAP (247)(420)(421)(431)(440)
ITEM 451 RETROFIT RAILING (421)(429)(440)(442)(445)(446)(450)(540)
ITEM 462 CONCRETE BOX CULVERTS AND DRAINS (400)(402)(403)(420)
(421)(422)(424)(440)(464)(476)
ITEM 464 REINFORCED CONCRETE PIPE (400)(402)(403)(467)(476)
ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(432)(440)(464)
ITEM 467 SAFETY END TREATMENT (400)(420)(421)(432)(440)(442)(445)
(460)(464)
ITEM 496 REMOVING STRUCTURES
ITEM 500 MOBILIZATION
ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING

ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL
CONTROLS (161) (432) (556)

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) (441) (445) (529)

ITEM 544 GUARDRAIL END TREATMENTS

ITEM 560 MAILBOX ASSEMBLIES

ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421) (440) (441) (442) (445)
(636) (643) (656)

ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)

ITEM 662 WORK ZONE PAVEMENT MARKINGS (666) (668) (672) (677)

ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS (316) (502) (662) (677)
(678) (6040)

ITEM 672 RAISED PAVEMENT MARKERS

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

SPECIAL LABOR PROVISIONS FOR STATE PROJECTS (000---008)
WAGE RATES

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---001)

SPECIAL PROVISION "NONDISCRIMINATION" (000---002)

SPECIAL PROVISION "SMALL BUSINESS ENTERPRISE IN STATE FUNDED
CONSTRUCTION" (000---009)

SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---010)

SPECIAL PROVISION "CERTIFICATE OF INTERESTED PARTIES (FORM 1295)"
(000---249)

SPECIAL PROVISION TO ITEM 2 (002---004)

SPECIAL PROVISION TO ITEM 6 (006---001)

SPECIAL PROVISIONS TO ITEM 7 (007---001) (007---003) (007---004)

SPECIAL PROVISION TO ITEM 300 (300---009)

SPECIAL PROVISION TO ITEM 421 (421---002)

SPECIAL PROVISION TO ITEM 506 (506---003)

SPECIAL SPECIFICATIONS:

ITEM 5001 GEOGRID BASE REINFORCEMENT

ITEM 6001 PORTABLE CHANGEABLE MESSAGE SIGN

ITEM 6040 MOBILE RETROREFLECTIVITY DATA COLLECTION FOR PAVEMENT
MARKINGS

ITEM 6185 TRUCK MOUNTED ATTENUATOR (TMA)

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.

