

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 1

**DATED 7/06/2015**

<b>Control</b>	<b>0596-02-043, ETC.</b>
<b>Project</b>	<b>STP 1502(491)HES, ETC.</b>
<b>Highway</b>	<b>FM 66</b>
<b>County</b>	<b>ELLIS</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: STP 1502(491)HES CONTROL: 0596-02-043  
COUNTY: ELLIS  
LETTING: 07/07/2015  
REFERENCE NO: 0706

**PROPOSAL ADDENDUMS**

- \_ PROPOSAL COVER  
X BID INSERTS (SH. NO.: 1-6 - 6-6 )  
X GENERAL NOTES (SH. NO.: A-J )  
  
X SPEC LIST (SH. NO.: 1-2 - 2-2 )  
\_ SPECIAL PROVISIONS:  
\_ ADDED:  
  
DELETED:  
  
\_ SPECIAL SPECIFICATIONS:  
\_ ADDED:  
  
DELETED:  
  
X OTHER: SEE CHANGES OUTLINES BELOW

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

Bid Inserts:

- Sheet 1-6: Item 305 6065 is added.
- Item 340 6236 is deleted.
- Item 341 6027 quantity is revised
- Sheet 2-6: Item 402 6001 quantity is revised.
- Item 460 6002 is added.
- Item 460 6003 is added.
- Item 460 6013 quantity is revised.
- Item 460 6024 quantity is revised.
- Item 460 6029 is added.
- Item 464 6003 is added.
- Item 464 6005 quantity is revised.
- Sheet 3-6: Item 464 6008 quantity is revised.
- Item 466 6122 quantity is revised.
- Item 466 6123 is added.
- Item 466 6132 quantity is revised.
- Item 466 6184 is added.
- Item 467 6348 is added.
- Item 467 6380 is added.
- Item 467 6395 is added.

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

Item 496 6004 quantity is revised.  
Sheet 4-6: Item 496 6005 quantity is revised.  
Item 496 6006 quantity is revised.  
Sheet 5-6: Item 530 6002 quantity is revised.  
Item 530 6004 is added.  
Item 530 6005 quantity is revised.  
Item 533 6002 is added.  
Item 540 6001 is added.  
Item 540 6017 is added.  
Item 540 6020 is added.  
Item 544 6001 is added.  
Item 658 6048 is added.  
Sheet 6-6: Item 678 6001 is removed.  
Item 678 6002 is removed.  
Item 678 6008 is removed.

Sheets 1-6 - 6-6 information may have shifted due to the changes above.

General Notes:

General Notes replaced.

Sheets A-J information may have shifted due to the changes above.

Spec List:

Sheet 1-2: Standard Specification 305 is added.  
Sheet 1-2: Standard Specification 467 is added.  
Sheet 2-2: Standard Specification 533 is added.  
Sheet 2-2: Standard Specification 540 is added.  
Sheet 2-2: Standard Specification 544 is added.  
Sheet 2-2: Standard Specification 658 is added.  
Sheet 2-3: Standard Specification 672 is removed.

Sheets 1-2 - 2-2 information may have shifted due to the changes above.

Plan Set:

The following sheets have been replaced:

2, 3 thru 19, 22 thru 29, 31 thru 35, 106, 112, 113, 117 and 169

The following sheets have been added:

97A and 97B

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	176.400	1
	110	6001		EXCAVATION (ROADWAY)  DOLLARS and CENTS	CY	3,790.000	2
	132	6006		EMBANKMENT (FINAL)(DENS CONT)(TY C)  DOLLARS and CENTS	CY	3,595.000	3
	161	6017		COMPOST MANUF TOPSOIL (4")  DOLLARS and CENTS	SY	39,088.000	4
	162	6002		BLOCK SODDING  DOLLARS and CENTS	SY	266.000	5
	164	6035		DRILL SEEDING (PERM) (RURAL) (CLAY)  DOLLARS and CENTS	SY	39,088.000	6
	164	6051		DRILL SEED (TEMP)(WARM OR COOL)  DOLLARS and CENTS	SY	39,088.000	7
	168	6001		VEGETATIVE WATERING  DOLLARS and CENTS	MG	554.000	8
	204	6003		SPRINKLING (DUST CONTROL)  DOLLARS and CENTS	MG	176.400	9
	247	6305		FL BS (CMP IN PLACE) (TY D GR 1-2)(15")  DOLLARS and CENTS	SY	18,162.000	10
	305	6065		SAL,HAUL & STKPL RCL ASPH PV (4"-13")  DOLLARS and CENTS	SY	1,050.000	11
	310	6027		PRIME COAT(MC-30 OR AE-P)  DOLLARS and CENTS	GAL	4,106.000	12

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	341	6027		D-GR HMA TY-C SAC-B PG70-22  DOLLARS and CENTS	TON	13,951.000	13
	351	6049		FLEX PAVEMNT STRUCTURE REPAIR (10"- 16")  DOLLARS and CENTS	SY	3,385.000	14
	361	6060		FULL - DEPTH REPAIR CRCP (6")  DOLLARS and CENTS	SY	472.000	15
	400	6005		CEM STABIL BKFL  DOLLARS and CENTS	CY	61.000	16
	400	6006		CUT & RESTORING PAV  DOLLARS and CENTS	SY	38.000	17
	402	6001		TRENCH EXCAVATION PROTECTION  DOLLARS and CENTS	LF	66.000	18
	403	6001		TEMPORARY SPL SHORING  DOLLARS and CENTS	SF	800.000	19
	460	6002		CMP (GAL STL 18 IN)  DOLLARS and CENTS	LF	264.000	20
	460	6003		CMP (GAL STL 24 IN)  DOLLARS and CENTS	LF	120.000	21
	460	6013		CMP AR (GAL STL DES 6)  DOLLARS and CENTS	LF	26.000	22
	460	6024		CMP AR (GAL STL DES 7)  DOLLARS and CENTS	LF	12.000	23
	460	6029		CMP AR (GAL STL DES 8)  DOLLARS and CENTS	LF	18.000	24

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	462	6059		CONC BOX CULV (7 FT X 4 FT)(EXTEND) DOLLARS and CENTS	LF	26.000	25
	462	6061		CONC BOX CULV (7 FT X 6 FT)(EXTEND) DOLLARS and CENTS	LF	39.000	26
	464	6003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	48.000	27
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	98.000	28
	464	6007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	26.000	29
	464	6008		RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	56.000	30
	464	6011		RC PIPE (CL III)(54 IN) DOLLARS and CENTS	LF	24.000	31
	466	6097		HEADWALL (CH - PW - 0) (DIA= 24 IN) DOLLARS and CENTS	EA	2.000	32
	466	6099		HEADWALL (CH - PW - 0) (DIA= 30 IN) DOLLARS and CENTS	EA	2.000	33
	466	6104		HEADWALL (CH - PW - 0) (DIA= 54 IN) DOLLARS and CENTS	EA	2.000	34
	466	6122		HEADWALL (CH - PW - A - S) (DES= 6) DOLLARS and CENTS	EA	2.000	35
	466	6123		HEADWALL (CH - PW - A - S) (DES= 7) DOLLARS and CENTS	EA	2.000	36

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	466	6124		HEADWALL (CH - PW - A - S) (DES= 8) DOLLARS and CENTS	EA	2.000	37
	466	6132		HEADWALL (CH - PW - S) (DIA= 30 IN) DOLLARS and CENTS	EA	2.000	38
	466	6134		HEADWALL (CH - PW - S) (DIA= 36 IN) DOLLARS and CENTS	EA	2.000	39
	466	6181		WINGWALL (PW - 1) (HW=6 FT) DOLLARS and CENTS	EA	2.000	40
	466	6184		WINGWALL (PW - 1) (HW=9 FT) DOLLARS and CENTS	EA	2.000	41
	467	6348		SET (TY II) (18 IN) (CMP) (6: 1) (P) DOLLARS and CENTS	EA	22.000	42
	467	6363		SET (TY II) (18 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	4.000	43
	467	6380		SET (TY II) (24 IN) (CMP) (6: 1) (P) DOLLARS and CENTS	EA	10.000	44
	467	6395		SET (TY II) (24 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	8.000	45
	480	6001		CLEAN EXIST CULVERTS DOLLARS and CENTS	EA	9.000	46
	496	6004		REMOV STR (SET) DOLLARS and CENTS	EA	9.000	47
	496	6005		REMOV STR (WINGWALL) DOLLARS and CENTS	EA	4.000	48

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	496	6006		REMOV STR (HEADWALL)  DOLLARS and CENTS	EA	6.000	49
	496	6007		REMOV STR (PIPE)  DOLLARS and CENTS	LF	54.000	50
	500	6001		MOBILIZATION  DOLLARS and CENTS	LS	1.000	51
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING  DOLLARS and CENTS	MO	7.000	52
	506	6002	001	ROCK FILTER DAMS (INSTALL) (TY 2)  DOLLARS and CENTS	LF	330.000	53
	506	6011	001	ROCK FILTER DAMS (REMOVE)  DOLLARS and CENTS	LF	330.000	54
	506	6020	001	CONSTRUCTION EXITS (INSTALL) (TY 1)  DOLLARS and CENTS	SY	234.000	55
	506	6024	001	CONSTRUCTION EXITS (REMOVE)  DOLLARS and CENTS	SY	234.000	56
	506	6038	001	TEMP SEDMT CONT FENCE (INSTALL)  DOLLARS and CENTS	LF	2,498.000	57
	506	6039	001	TEMP SEDMT CONT FENCE (REMOVE)  DOLLARS and CENTS	LF	2,498.000	58
	506	6041	001	BIODEG EROSN CONT LOGS (INSTL) (12")  DOLLARS and CENTS	LF	120.000	59
	506	6043	001	BIODEG EROSN CONT LOGS (REMOVE)  DOLLARS and CENTS	LF	120.000	60

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	530	6002		INTERSECTIONS (ACP)  DOLLARS and CENTS	SY	302.000	61
	530	6004		DRIVEWAYS (CONC)  DOLLARS and CENTS	SY	234.000	62
	530	6005		DRIVEWAYS (ACP)  DOLLARS and CENTS	SY	913.000	63
	533	6002		RUMBLE STRIPS (CENTERLINE)  DOLLARS and CENTS	LF	17,639.000	64
	540	6001		MTL W-BEAM GD FEN (TIM POST)  DOLLARS and CENTS	LF	2,200.000	65
	540	6017		MTL BM GD FEN (LONG SPAN SYSTEM)  DOLLARS and CENTS	LF	200.000	66
	540	6020		MTL W - BEAM GD FEN (LOW FILL CUL- VERT)  DOLLARS and CENTS	LF	600.000	67
	544	6001		GUARDRAIL END TREATMENT (INSTALL)  DOLLARS and CENTS	EA	40.000	68
	644	6068		RELOCATE SM RD SN SUP&AM TY 10BWG  DOLLARS and CENTS	EA	67.000	69
	644	6070		RELOCATE SM RD SN SUP&AM TY S80  DOLLARS and CENTS	EA	1.000	70
	658	6048		INSTL OM ASSM (OM-2Z)(FLX)GND  DOLLARS and CENTS	EA	20.000	71
	662	6032		WK ZN PAV MRK NON-REMOV (Y)4"(BRK)  DOLLARS and CENTS	LF	9,600.000	72

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	662	6034		WK ZN PAV MRK NON-REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	30,478.000	73
	666	6048		REFL PAV MRK TY I (W)24"(SLD)(100MIL) DOLLARS and CENTS	LF	240.000	74
	666	6303		RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	34,320.000	75
	666	6309		RE PM W/RET REQ TY I (W)6"(SLD)(100MIL) DOLLARS and CENTS	LF	1,764.000	76
	666	6312		RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL) DOLLARS and CENTS	LF	1,600.000	77
	666	6315		RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	34,280.000	78
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	4,000.000	79

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## SW3P RESPONSIBILITIES

### TxDOT Area of Responsibility

Responsible for the area defined by the limits of the subject project, except for those areas utilized and operated by the contractor. These areas include, though are not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants.

### TxDOT Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and operating the project within the requirements of the CGP for discharging storm water from the subject project and to notify MS4 permit holders of the intent to discharge storm water.

File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

### Contractor Area of Responsibility

Responsible for all areas under their direct operational control which includes, though not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants. These areas may be located on or off the subject project's R.O.W.

### Contractor Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and adhering to all requirements of the permit for discharging storm water from the areas under their operational control. Perform regular inspections, prepare a written report of deficiencies, and repair deficiencies within the time frame set forth by the permit. File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Responsible under contractual obligations to TxDOT to install, clean, repair, replace or remove sediment and erosion control devices as indicated on TxDOT's Inspection Reports, or as required by daily construction practices, within the time frame set forth by the permit.

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**SPECIFICATION DATA**

<b>Table 1: Soil Constants Requirements</b>				
Item	Description	Plasticity Index		Note
		Max	Min	
132	Embk(DC)(Type C)	40	8	1

Note 1: Material excavated from the project must meet the PI requirements when used in the top 10 feet of embankment that supports the pavement structure or other locations shown in the plans. Do not use shale and obtain approval to incorporate shaley clay produced by the construction project.

<b>Table 2: Basis of Estimate for Permanent Construction</b>					
Item	Description	Thickness	Rate		Quantity
162	Block Sod	N/A			266 SY
164	Drill Seed (Perm) (R) (C)	N/A			39,088 SY
166 *	Fertilizer (12-6-6)	N/A	500	Lb/Ac	1.75 Ton
168	Vegetative Watering (Warm)**	N/A	7	MG/Ac/Day	369 MG
247	Flexible Base	15"		SY	18,162 SY
310	Prime Coat (MC-30 OR AE-P)	N/A	0.20	Gal/SY	4,106 Gal
341	Hot Mix Asphalt (Ty C)		110	Lbs/SY/In	13,951 Ton
* For contractor's information only					
**Adjust for actual field conditions/temperatures as necessary. See Vegetation Establishment Plan Sheet for estimated daily rates.					
Note:					
(1) Base material weight based on 1.50 Ton/CY (dry- compacted)					
(2) Asphalt weight based on 110 Lbs/SY/In					

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Table 3: Basis of Estimate for Temporary Erosion Control Items				
Item	Description	Rate		Quantity
164	Drill Seeding (Temp) ( <b>Warm or Cool</b> )	See Specifications		39,088 SY
166*	Fertilizer (12-6-6)	500	Lb/Ac	Ton
168	Vegetative Watering (Warm or Cool)**	7	MG/Ac/Day	185 MG

\*For Contractor's Information Only.  
 \*\*Adjust for Actual Field Conditions/Temperatures as Necessary. See Vegetation Establishment Sheet for estimated daily rates.

**GENERAL**

The construction, operation and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

The disturbed area for this project, as shown on the plans is 28.27 acres. However, the Total Disturbed Area (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

This project required formal consultation with environmental resources agencies. There is a high probability that an environmentally sensitive area could be encountered on the contractor designated Project-Specific Locations (PSL) for this project (haul roads, equipment staging areas, borrow pits, disposal sites, field offices, storage areas, parking areas, etc.). Item 7.6 "Project-Specific Locations", provides a listing of regulatory agencies that may need to be contacted regarding this project.

Prior to contract letting, bidders may request electronic earthwork information by email. Email: [Darwin.Myers@txdot.gov](mailto:Darwin.Myers@txdot.gov)  
 Earthwork files will be provided by email or by using TxDOT's Dropbox FTP Service.

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Bidders may also obtain a free electronic copy that contains earthwork information from the engineer's office. Paper copies of cross-sections may be produced by using the provided free diskette at the bidders' expense and at copying companies. This data is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the enclosed data with appropriate plans, specifications and estimate for the project(s).

Install traffic marking signs prior to sealcoat application and remove within three days after placement of traffic markings.

Leave all right of way areas undisturbed until actual construction is to be performed in said areas.

**Item 2:**

Submit pre-letting questions, by email only, to the attention of Area Engineer or Assistant Area Engineer.

Area Engineer's Email: [Darwin.Myers@txdot.gov](mailto:Darwin.Myers@txdot.gov)

Assistant Area Engineer's Email: [John.Kiser@txdot.gov](mailto:John.Kiser@txdot.gov)

Answers will be provided by email.

In addition, an electronic file containing pre-letting questions and answers will be uploaded to the following site that can be downloaded by using the Login Name and Password as follows:

Website Address: <ftp://ftp.dot.state.t.us>

Login Name: DalWaxAO-ro

Password: 33KL45

**Item 5:**

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way on this project. For signal, illumination, surveillance, and communications & control maintained by TxDOT, call the TxDOT Traffic Signal Office (214-320-6682) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Landscape Office (214-320-6636) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages incurred to the above mentioned utilities when working without having the utilities located prior to excavation.

For the project to be deemed complete, permanently stabilize all unpaved disturbed areas of the project with a vegetative cover at a minimum of 70% density for the control of erosion.

Submit all shop drawings, working drawings or other documents which require review sufficiently in advance of scheduled construction to allow no less than thirty (30) calendar days for review and response.

**Item 7:**

Repair or replace any structures and utilities that might have been damaged by negligence or a failure to have utility locates performed.

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Perform all electrical work in accordance with the National Electrical Code and Texas Department of Transportation Specifications.

Consult with appropriate electric company representatives according to their respective area to coordinate electrical services installations.

**Item 8:**

This Project will be a Five-Day Workweek in accordance with Article 8.3.1.1.

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

Provide the engineer with a daily work schedule of planned work.

Submit CPM schedule in P3 or P6 format.

**Item 100:**

Remove the existing roadway small signs, delineators and object markers as shown on the plans, or as directed, during construction within the right of way. Small sign, delineator and object marker removals are subsidiary to this Item.

The limits of preparing right of way will be measured from Sta. 172+50.44 to Sta.358+88.84 along the centerline of construction.

**Item 110:**

Excavated shale is not an acceptable material for embankment.

**Items 110 and 132:**

Scarify and loosen the excavated areas, unpaved surface areas, except rock, to a depth of at least 8 inches and compact in accordance with the specifications.

Excavation and embankment for driveways, sleeper slabs, alleys and intersections will not be paid for directly, but will be considered subsidiary to these items.

**Item 132:**

Excavated material from the project site has not been determined to be suitable for embankment. The bidder assumes all risk for the use of excavated materials for embankment and is expected to meet all material requirements for embankment regardless of the source.

Perform Tex-106-E (Plasticity Index) by an approved laboratory on excavated soils from sources outside right of way when used in roadway embankment. Provide the test results at no expense to the department. The engineer will sample and test soils produced by the construction project for specification requirements or material sources specified in the plans.

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Earth embankment Type C, is mainly composed of material other than shale. Furnish material that is free from vegetation or other objectionable material and that conforms to the requirements of Table 1 (Sheet B). If necessary, treat material with lime slurry in accordance with Item 260, "Lime Treatment (Road-Mixed)" in order to meet these requirements. Use Tex-121-E, figure 1, page 4 to calculate the amount of lime required. When lime treated subgrade is specified, 3000 PPM is the maximum allowed sulfate content in the top 3 feet when material comes from borrow source. Follow recommendations of 260.4.4 for mixing and mellowing. The engineer will test material placed or excavated to a depth of one foot below and laterally to one foot outside the proposed treatment limit. Lime treatment of this material will not be paid for directly, but will be considered subsidiary to this item.

Do not use shaley clays in embankment unless approved in writing.

**Item 247:**

Construct uniform layer thickness of 12 inches, or less with the required density and moisture content. Minimum PI is equal to three (3) for all grades.

**Item 301:**

Provide liquid antistripping agents unless otherwise directed. Add the minimum dosage determined by the manufacturer or higher dosage determined by design requirement and try subsequent trials at 0.25% increments.

**Item 310:**

Do not use MC-30 on base courses placed between April 16 and September 15.

**Item 320:**

Use a self-propelled wheel mounted MTV capable of receiving mix from the haul trucks, separate from the paver. It shall have a minimum storage capacity of approximately 25 tons. It shall be equipped with a pivoting discharge conveyor and shall completely and thoroughly remix the material prior to placement. The effectiveness of the MTV's remixing ability is subject to the approval of the Engineer. In addition, the paver shall have a surge storage insert with a minimum capacity of 20 tons.

The use of windrow pick-up equipment is allowed except on the first course of roadway material placed over the subgrade.

Dense-Graded Hot-Mix Asphalt used as concrete pavement underlayment is deemed as "Exempt Production".

**Item 341:**

Tack Coat is required.

Design for a target Laboratory-molded density of 97.0% when using the Texas Gyratory Compactor (TGC) (Tex-204-F, Part I).

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Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B.

Provide the engineer the opportunity to witness all mixture design tests. The engineer may require a retest if not given the opportunity to witness.

Dilution of tack is not allowed.

Provide PG binder 70-22 in Type C mixture.

Dense-Graded Hot-Mix Asphalt used as concrete pavement underlayment is deemed as "Exempt Production".

**Item 361:**

Provide Class HES concrete designed to attain a minimum average flexural strength of 255 psi or a minimum average compressive strength of 1,800 psi within the allowed lane closure times.

All permanent pavement markings which are removed during the removal of the existing concrete pavement are to be replaced as directed by the Engineer. These pavement markings will not be paid for directly, but will be considered subsidiary to this bid item.

**Item 400:**

Structural Excavation is not paid for directly but is considered subsidiary to pertinent Items.

When placing concrete storm drain pipe on slopes of greater than 10 percent, provide cement stabilized backfill to a depth shown on the plans.

**Item 420:**

Apply an ordinary surface finish to all concrete surfaces within 30 days after form removal.

**Item 421:**

Furnish mix designs to the Engineer in a format compatible to the latest version of the Department's Construction Management System (Site Manager). Mix Design templates will be provided by the Engineer.

Provide sulfate resistant concrete for box culverts and all drilled shafts.

Strength evaluation using maturity testing, Tex-426-A, may be used for all concrete elements except drilled shafts and mass concrete pours.

Provide a digital hydraulic compression testing Machine and accessories. The machine shall have a minimum testing range of 2500 pounds force to 250,000 pounds force with a hydraulic switching valve to allow for rapid advancing, hold, controlled advancing and rapid retracting. The machine shall have a load cell to measure compressive forces within the testing range and shall be calibrated and verified in accordance with ASTM latest version. The Machine can meet or exceed the following when approved by the Engineer:

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ELE International ACCU-TEK250 Digital Compression Tester including accessories or Forney F-250EX Standard Compression Machine including accessories or TxDOT approved equal.

Supply the Engineer with a list of certified personnel and copies of their current ACI certificates before beginning production and when personnel changes are made. Supply hard copies of calibration reports for testing equipment when required by the Engineer.

**Item 464:**

The concrete collars and the connections of pipes to existing or proposed concrete boxes or pipe will not be paid for directly but will be considered subsidiary to the various bid items.

At locations where storm drains dead-end, plug with a concrete plug of a thickness equal to 1 ½ inches per foot of diameter of pipe with a minimum thickness of 3 inches. The cost of the plugs shall be included in the unit price bid per foot of the various storm drain pipes.

**Item 500:**

Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

**Item 502:**

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.

Access will be provided to all business and residences at all times. Where turning radii are limited during phased construction at intersections, provide all weather surfaces such as RAP or base in turning movements to accommodate and to protect the traffic from edge drop-offs. Materials, labor, maintenance and removal for these temporary accesses and radii will not be paid for directly but will be considered subsidiary to the various bid items.

Provide written proposed lane closure information by 1:00 pm on the business day prior to the proposed closures. Do not close lanes when this requirement is not met.

When excavation is required next to a pavement lane carrying traffic and the widening is not completed by the end of the work day, backfill against the edge of the pavement with at least a 3:1 slope using an acceptable material to support vehicular traffic. Carefully remove and dispose of this material when work resumes. Backfilling pavement edges, and the materials required for the work will be subsidiary to this item.

Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

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Provide rectangular shape (CW12-2P) Temporary Clearance Signs on all bridges where the existing vertical clearance has changed. Install Signs to the satisfaction of the Engineer prior to opening to traffic. Plywood sign blanks will have minimum dimensions of 84" X 12". Work performed and materials are subsidiary to this item.

Do not commence work on the road before sunrise. Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the engineer.

When moving unlicensed equipment on or across any pavement or public highways, protect the pavement from all damage using an acceptable method.

Provide two (2) shadow vehicles equipped with truck mounted attenuators as shown on the traffic control plan.

As approved by the Engineer, provide uniformed off duty police officers and squad cars during lane or ramp closures, night time work or other situations that indicate a need for additional traffic control to protect the traveling public or the construction workforce. Provide documentation such as payroll, log sheets with signatures and badge number, or invoices from the government entity providing the officers for reimbursement. Complete the weekly tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided. Reimbursement will not be made for coordination fees charged by the police department.

Limit lane closures along FM 66 to the hours between 9:00 am and 3:30 pm. Work in other areas of the project is not restricted to this time frame.

**Item 506:**

Take all practicable precautions to prevent debris from being discharged into the Waters of Texas or a designated wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

If temporary construction stream crossings are allowed under a Nationwide Permit, submit in writing for approval the type and location of each temporary stream crossing. Use temporary bridges, timber mats, or other structurally sound and non-eroding material for temporary stream crossings. A temporary culvert crossing will consist of storm sewer pipes and 4- to 8-inch nominal size rock. Temporary stream crossings must not cause more than minimal changes to the hydraulic flow characteristics of the stream, increase flooding, or cause more than minimal degradation of water quality. Remove the temporary stream crossings in their entirety and return the affected areas to their pre-existing elevation. All work and materials use for temporary construction stream crossings will not be paid for directly but are subsidiary to pertinent Items.

Provide SW3P Signs. Obtain from the Engineer a copy of the project's completed TPDES Storm Water Program Construction Site Notice and signed Contractor Certification Statement. Laminate the sheets and bond with adhesive to 36" X 36" plywood sign blanks. Ensure the

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sheets remain dry. Apply Type C Blue reflective sheeting as the background and add the text "SW3P" in 5" white lettering, centered at the top. Attach the signs to approved temporary mounts and locate at each of the project limits just inside the right of way line at a readable height or as directed by the Engineer. If the sign cannot be placed outside the clear zone, it must adhere to the TMUTCD. SW3P signs, maintenance, and reposting (for replacement or as needed to ensure readability) will be subsidiary to Item 502.

**Item 530:**

Provide Class "HES" concrete for concrete intersections and driveways listed or shown on the plans.

**Item 540:**

Furnish one type of post throughout the project except as specifically noted in the plans.

**Item 545:**

Contact John Kiser at the Ellis County Area Office to pick-up and return crash cushion attenuators from the storage area located at the intersection of Business 287 and US 287.

**Item 585:**

Use Surface Test Type A on all intersections and driveways.

Use Surface Test Type B pay adjustment schedule 3 on the travel lanes.

**Item 644:**

Prior to taking elevations to determine lengths for fabrication of sign posts, obtain verification of all proposed locations.

All sign mounts shall have a clamp base system for all small roadside sign assemblies.

**Item 672:**

White adhesive will be used on concrete pavements.

**Item 677:**

A water blasting method approved by the Engineer will be the only method allowed for the removal of permanent and temporary pavement markings except on a sealcoat surface. A 2 foot wide sealcoat will be required on sealcoat surfaces to eliminate permanent and temporary pavement markings.

CONTROL : 0596-02-043, ETC  
PROJECT : STP 1502(491)HES, ETC  
HIGHWAY : FM 66  
COUNTY : ELLIS

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 110 EXCAVATION (132)  
ITEM 132 EMBANKMENT (100) (160) (204) (210) (216) (260) (400)  
ITEM 161 COMPOST (160)  
ITEM 162 SODDING FOR EROSION CONTROL (166) (168)  
ITEM 164 SEEDING FOR EROSION CONTROL (162) (166) (168)  
ITEM 168 VEGETATIVE WATERING  
ITEM 204 SPRINKLING  
ITEM 247 FLEXIBLE BASE (105) (204) (210) (216) (520)  
ITEM 305 SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALT  
PAVEMENT  
ITEM 310 PRIME COAT (300) (316)  
ITEM 341 DENSE-GRADED HOT-MIX ASPHALT (300) (301) (320) (520) (585)  
ITEM 351 FLEXIBLE PAVEMENT STRUCTURE REPAIR (132) (204) (247) (260)  
(263) (275) (276) (292) (310) (316) (330) (334) (340)  
ITEM 361 REPAIR OF CONCRETE PAVEMENT (360) (421) (440)  
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (110) (132) (401)  
(402) (403) (416) (420) (421) (423)  
ITEM 402 TRENCH EXCAVATION PROTECTION  
ITEM 403 TEMPORARY SPECIAL SHORING (410) (411) (423)  
ITEM 460 CORRUGATED METAL PIPE (400) (402) (403) (445) (467) (476)  
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 480 CLEANING EXISTING CULVERTS  
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 533 MILLED RUMBLE STRIPS  
 ITEM 540 METAL BEAM GUARD FENCE (421) (441) (445) (529)  
 ITEM 544 GUARDRAIL END TREATMENTS  
 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)  
 ITEM 672 RAISED PAVEMENT MARKERS

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, MAY, 2012)

WAGE RATES

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---001)  
 SPECIAL PROVISION "NONDISCRIMINATION" (000---002)  
 SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"  
 (000---003)  
 SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO  
 ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)  
 SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY  
 CONSTRUCTION CONTRACT SPECIFICATIONS" (000---005)  
 SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000---006)  
 SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL AID  
 CONTRACTS" (000---007)  
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---010)  
 SPECIAL PROVISION TO ITEM 6 (006---001)  
 SPECIAL PROVISIONS TO ITEM 7 (007---001) (007---003)  
 SPECIAL PROVISION TO ITEM 8 (008---002)  
 SPECIAL PROVISION TO ITEM 506 (506---001)

SPECIAL SPECIFICATIONS:

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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.

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