

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 5/17/2012

Control	0341-03-036
Project	C 341-3-36
Highway	US 287
County	POLK

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 341-3-36

CONTROL: 0341-03-036

COUNTY: POLK

LETTING: 06/06/2012

REFERENCE NO: 0516

PROPOSAL ADDENDUMS

- PROPOSAL COVER
- BID INSERTS (SH. NO.: Sheet 2-6)
- GENERAL NOTES (SH. NO.: Sheets A thru M)

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

DELETED:

- SPECIAL SPECIFICATIONS:
- ADDED:

DELETED:

- OTHER: Plan Sheets 2,5-5E,6,7, Estimate

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

PLAN SHEET 2 UNDER INDEX OF SHEETS CHANGE GENERAL NOTES SHEET NUMBERS FROM
 5-5F TO 5-5E, OMIT SHEET 5F
 PLAN SHEETS 5-5F, REPLACE WITH NEW SHEETS 5-5E
 PLAN SHEET 6 REPLACED TO REFLECT UPDATED ITEM 247
 PLAN SHEET 7 ITEM 247 STRIKE (IN VEH)

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	104	2017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	77.000	1
	112	2001		SUBGRADE WIDENING (ORD COMP) DOLLARS and CENTS	STA	464.000	2
	132	2019		EMBANKMENT (VEHICLE)(ORD COMP)(TY B) DOLLARS and CENTS	CY	1,000.000	3
	134	2002		BACKFILL (TY B) DOLLARS and CENTS	STA	464.000	4
	158	2003		SPEC EXCAV WORK (HYD EXCAVATOR) DOLLARS and CENTS	HR	75.000	5
	164	2009	002	BROADCAST SEED (TEMP) (WARM) DOLLARS and CENTS	SY	51,515.000	6
	164	2011	002	BROADCAST SEED (TEMP) (COOL) DOLLARS and CENTS	SY	51,515.000	7
	164	2021	002	CELL FBR MLCH SEED(PERM)(RURAL)(SANDY) DOLLARS and CENTS	SY	103,029.000	8
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	1,030.000	9
	204	2003		SPRINKLING (DUST CONTROL) DOLLARS and CENTS	MG	1,693.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	247	2134	033	FL BS (RDWY DEL) (TY D GR 2) DOLLARS and CENTS	TON	13,932.000	11
	275	2001	003	CEMENT DOLLARS and CENTS	TON	3,402.000	12
	275	2065	003	CEM TRT(MX EXST MTL & NEW BS)(14") DOLLARS and CENTS	SY	170,089.000	13
	316	2015	016	ASPH (RC-250) DOLLARS and CENTS	GAL	42,522.000	14
	316	2398	016	AGGR(TY-PE, TY-PL, TY-E, OR TY-L GR-4) DOLLARS and CENTS	CY	1,547.000	15
	316	2427	016	AGGR (TY-E GR-5 OR TY-L GR-5) DOLLARS and CENTS	CY	1,308.000	16
	316	2566	016	ASPH (AC-15P OR AC-10-2TR OR CRS-2P) DOLLARS and CENTS	GAL	153,081.000	17
	316	2643	016	AGGR (TY PE,TY-PL,TY-E, OR TY-L GR-3) DOLLARS and CENTS	CY	1,890.000	18
	340	2106	003	D-GR HMA(METH) TY-D PG64-22 DOLLARS and CENTS	TON	499.000	19
	500	2001	005	MOBILIZATION DOLLARS and CENTS	LS	1.000	20

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS CENTS and	MO	12.000	21
	506	2024	011	BACKHOE WORK (EROSION & SEDM CONT) DOLLARS CENTS and	HR	5.000	22
	506	2034	011	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS CENTS and	LF	1,860.000	23
	530	2005		INTERSECTIONS (ACP) DOLLARS CENTS and	SY	398.000	24
	530	2010		DRIVEWAYS (CONC) DOLLARS CENTS and	SY	71.000	25
	530	2011		DRIVEWAYS (ACP) DOLLARS CENTS and	SY	1,567.000	26
	530	2017		TURNOUTS (ACP) DOLLARS CENTS and	SY	936.000	27
	540	2001	023	MTL W-BEAM GD FEN (TIM POST) DOLLARS CENTS and	LF	2,205.000	28
	540	2011	023	MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS CENTS and	EA	16.000	29
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS CENTS and	LF	2,575.000	30

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	544	2003	001	GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	14.000	31
	544	2006	001	GDRAIL END TRT(INST)(WOOD POST)(TY III) DOLLARS and CENTS	EA	14.000	32
	560	2004	001	MAILBOX INSTALL-S (WC-POST) TY 3 FND DOLLARS and CENTS	EA	22.000	33
	560	2005	001	MAILBOX INSTALL-D (WC-POST) TY 3 FND DOLLARS and CENTS	EA	2.000	34
	560	2009	001	MAILBOX INSTALL-M (TWG-POST) TY 1 FND DOLLARS and CENTS	EA	4.000	35
	644	2006		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	4.000	36
	644	2031		IN SM RD SN SUP&AM TYS80(1)SA(U-WC) DOLLARS and CENTS	EA	6.000	37
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	86.000	38
	644	2081		IN SM RD SN SUP&AM TYTWT(1)WS(P) DOLLARS and CENTS	EA	50.000	39
	644	2082		IN SM RD SN SUP&AM TYTWT(1)WS(T) DOLLARS and CENTS	EA	26.000	40
	658	2241		INSTL DEL ASSM (D-SW)SZ 1(FLX)GF2(BI) DOLLARS and CENTS	EA	49.000	41

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	658	2259		INSTL DEL ASSM (D-SW)SZ (TYC)CTB(BI) DOLLARS and CENTS	EA	24.000	42
	662	2001		WK ZN PAV MRK NON-REMOV (W) 4" (BRK) DOLLARS and CENTS	LF	4,130.000	43
	662	2004		WK ZN PAV MRK NON-REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	94,186.000	44
	662	2030		WK ZN PAV MRK NON-REMOV (Y) 4" (BRK) DOLLARS and CENTS	LF	3,120.000	45
	662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	50,100.000	46
	662	2113		WK ZN PAV MRK SHT TERM (TAB) TY W DOLLARS and CENTS	EA	3,717.000	47
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	10,323.000	48
	662	2116		WK ZN PAV MRK SHT TERM RMV(W)(4") DOLLARS and CENTS	LF	1,859.000	49
	662	2117		WK ZN PAV MRK SHT TERM RMV(Y)(4") DOLLARS and CENTS	LF	11,584.000	50
	666	2002		REFL PAV MRK TY I (W) 4" (BRK)(090MIL) DOLLARS and CENTS	LF	4,130.000	51
	666	2011		REFL PAV MRK TY I (W) 4" (SLD)(090MIL) DOLLARS and CENTS	LF	94,186.000	52

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2104		REFL PAV MRK TY I (Y) 4" (BRK)(090MIL) DOLLARS and CENTS	LF	3,120.000	53
	666	2110		REFL PAV MRK TY I (Y) 4" (SLD)(090MIL) DOLLARS and CENTS	LF	50,100.000	54
	666	2189		PAVEMENT SEALER 4" DOLLARS and CENTS	LF	840.000	55
	668	2105		PREFAB PAV MRK TY C (W) (24") (SLD) DOLLARS and CENTS	LF	116.000	56
	672	2012	034	REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	207.000	57
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	1,024.000	58
	677	2001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	840.000	59
	3224	2020		D-GR HMA(QCQA) TY-C SAC-A PG64-22 DOLLARS and CENTS	TON	18,710.000	60
	6834	2002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	2.000	61

County: Polk**Control:** 0341-03-036**Highway:** US 287**GENERAL NOTES:**

The following standard detail sheet has been modified:

TYPE T5/T501/T502

Existing regulatory, warning and guide signs within project limits are to remain visible to the traveling public at all times. If a sign must be repositioned during construction operations, move and install the sign to an approved location. Use care when working near existing signs and repair or replace signs damaged by work operations. All work involved repositioning existing signs will be considered subsidiary to various bid items.

Maintain adequate surface drainage throughout the limits of the project during all phases of construction.

Provide suitable access at all times to adjacent businesses, private property and side roads.

When construction work necessitates the moving of mailboxes, temporarily relocate them as necessary to keep them clear of construction operations and convenient for the mail carrier. Mounts for temporarily relocating mailboxes shall conform to the Department's "Compliant Work Zone Traffic Control Device List" or the MB-11(1) Standard. Temporary relocation of mailboxes will be considered subsidiary to various bid items.

Remove dirt, silt, rocks, debris and other foreign matter that accumulates in structures due to the Contractor's operations as directed. Keep stream channels open at all times. This work will not be paid for directly, but will be subsidiary to pertinent Items.

Project Mowing

Mow at locations where contract work, equipment or stockpiles conflict with TxDOT's mowing operations. Mowing will not be measured or paid for directly, but will be considered subsidiary to the various bid items in this contract

The equipment used for mowing shall consist of approved mowing units capable of mowing on slopes without unduly marring finished slope surfaces or injuring existing growth. The minimum cutting width shall not be less than 5 ft., unless otherwise approved.

Mow all areas of existing vegetation and vegetation placed during the project as directed. The mowing height shall be 5 in. unless otherwise directed. Repair portions of sod or grass that are injured during mowing operations in an acceptable manner.

Mow as close as possible to all fixed objects, exercising extreme care not to damage trees, plants, shrubs, signs, delineators or other appurtenances which are part of the facility. Hand trim around such objects, unless otherwise specified.

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Use safety chains or other manufacturer's safety device to prevent damage to people or property caused by flying debris propelled out from under rotary mowers. Chains shall be a minimum size of 5/16 in. and links spaced side by side around the mower's front, sides and rear. When mowing at the specified cutting height, the chains shall be long enough to drag the ground. If at any time, it is determined mowing or trimming equipment is defective to the point that it may affect the quality of the work or create an unsafe condition, then that equipment shall be immediately repaired or replaced.

Litter Pickup

In addition to the requirements in article 4.6., Final Cleanup; remove litter from the right of way at locations where the Contractor may be required to mow. Litter pickup will not be measured or paid for directly, but will be considered subsidiary to the various bid items in this contract.

The equipment used for litter pickup shall be approved.

Collect and dispose of all litter deposited by construction operations or the traveling public including cans, bottles, paper, plastic items, metal scraps, lumber, etc. from within the project right of way or as directed. Properly dispose of all collected litter. Do not dump or stockpile collected litter on State property.

Item 5: Control of the Work

In the event utility lines needing unforeseen adjustments are encountered during construction operations, alter operations and continue to prosecute the contract in such a manner that will allow utility adjustments to be made by others. An extension of working time may be granted for any delays caused by the utility adjustments if deemed necessary.

Item 7: Legal Relations and Responsibilities

The total disturbed area for this project is 21.29 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 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 1 mi. of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW and within 1 mi. of the project limits to the Engineer and to the local government that operates a separate storm sewer system.

Item 8: Prosecution and Progress

For this project, working days will be computed and charged in accordance with Section 8.3.A.1, "Five-day Workweek".

Submit monthly progress schedules no later than the 15th calendar day of the month. Failure to comply with this deadline may result in the Engineer withholding progress (monthly) payments.

Item 132: Embankment

All blading, rolling, and scraper work to construct and remove temporary slopes adjacent to pavement drop-offs, will be considered subsidiary to various bid items.

Compact embankment material used to reshape existing slopes to a density comparable with adjacent undisturbed material to the satisfaction of the Engineer.

Item 134: Backfilling Pavement Edges

Mix a minimum width of 6 ft. from the pavement edge and a depth of at least 6 in. with approved equipment. This mixing shall be done prior to placement of any additional material. Mixing will be considered subsidiary to Item 134.

Item 158: Specialized Excavation Work

When permitted by the Engineer, any equipment in Item 158 may be substituted for Hydraulic Excavator. If a substitution is permitted, the unit price for "Specialized Excavation Work Hydraulic Excavator", will not be adjusted.

Item 166: Fertilizer

Fertilize all seeded areas.

Item 168: Vegetative Watering

Equip water trucks with sprinkler systems capable of covering the entire area to be seeded from the roadway.

Water all newly placed seeded areas the same day of installation. Thereafter, maintain the seeded areas in a well-watered condition and at no time allow the areas to dry to the condition that water stress is evident.

Item 247: Flexible Base

Provide flexible base material with minimum Bar Linear Shrinkage of 2% as determined by Test Method Tex-107-E, Part II.

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Stockpiling of base material will not be required if testing has been performed and the material has been approved at the source. Deliver approved specified materials to the project.

Item 275: Cement Treatment (Road-Mixed)

No strength requirement is specified. The target cement content is 3%

Compact and sprinkle pulverized sections for dust control as directed for traffic use.

Cement treat pulverized sections within 2 days, unless otherwise authorized.

Pulverization and cement treatment of the existing roadway will not be allowed from October through March without written permission.

A cutting and pulverizing machine capable of pulverizing full depth (14 in) of existing base, asphaltic surfacing and flex base material will be required by the Engineer. Equivalent equipment, as approved by the Engineer, may be used.

Numerous areas have been repaired by Maintenance with cement stabilized material, full depth Hot Mix Asphalt, etc. and the Contractor is expected to pulverize the full depth (14 in) with minimal disturbance to the existing material below 14 inches, unless otherwise approved by the Engineer.

Remove and dispose of excess material from the pulverizing, mixing and finishing operations. Deposit the excess material at a site approved by the Engineer. This work will be considered subsidiary to Item 275.

Prior to adding cement, the existing pulverized material shall be at least two (2) percent below optimum moisture and then dry mixed with cement.

Cement treatment shall be done in two equal lifts, unless otherwise approved in writing.

Item 302: Aggregates for Surface Treatments

Furnish Type E aggregate consisting of crushed stone or natural limestone rock asphalt.

Furnish Type PE aggregate consisting of precoated crushed stone or natural limestone rock asphalt.

Locate aggregate stockpiles off the highway right of way unless otherwise approved.

Aggregate stockpile locations shall be approved prior to stockpiling.

When directed, flush aggregate stockpiled for surface treatment with water to remove excessive dust particles, in such sequence that will permit free water to drain from the stockpiled aggregate prior to surfacing operations. This work will be considered subsidiary to various bid items.

No surface aggregate classification is required.

Item 316: Surface Treatments

Apply the covered prime within two days of finishing cement treated material unless otherwise approved in writing.

Open season for asphalt placement is from March 1 thru October 31. Do not place asphalt outside of the open season without written approval.

The uniformity and rate of distribution of asphaltic material will be checked periodically during construction. Apply the seal coat in lane widths unless otherwise directed. Where extra width of surfacing has been provided in transitions and climbing lanes, seal the entire width of surface. Resurface county road turnouts and intersection areas as directed.

Cease application of asphalt 2 hr. before sunset unless otherwise directed.

Cure the first course of the surface treatment as directed prior to placing the second course.

Cure the surface treatment as directed prior to placement of the overlay.

When AC-10-2TR is supplied, provide AC-10-2TR meeting the requirements of ASTM Test 5546 with a minimum solubility of 98%.

Cure the covered prime a minimum of 14 days prior to placement of the surface treatment.

Use the following schedule for aggregate:		
Primecoat	With RC 250 under traffic	Type E or L Grade 5
First Course	AC-15P or AC-10-2TR	Type PE or PL Grade 3
	CRS-2P	Type E or L Grade 3
Second Course	AC-15P or AC-10-2TR	Type PE or PL Grade 4
	CRS-2P	Type E or L Grade 4

Furnish medium pneumatic tire rollers in accordance Item 210, "Rolling". Provide enough rollers to perform the work satisfactorily.

Sweep all roadways with a powered rotary broom prior to placement of the surface treatment to remove all loose or excess material or debris. After rolling, sweep as soon as aggregate has sufficiently bonded to remove excess.

Item 340: Dense-Graded Hot-Mix Asphalt (Method)

Target laboratory molded density is 97 %.

No surface aggregate classification is required.

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No Department-owned RAP is available.

Furnish a PG binder with a minimum high-temperature grade of PG 58 for tack coat binder in accordance with Item 300, "Asphalts, Oils, and Emulsions".

Add hydrated lime to all HMA mixtures at a rate of 1.0% by weight of the total aggregate, except for those mixtures containing RAP and/or RAS. Mixtures that contain RAP and/or RAS shall be designed at a rate of 0.5 % of lime by weight and the test results will be evaluated by the engineer to determine if lime or a liquid anti-strip additive will be used. The hydrated lime shall meet the requirements of DMS-6350, "Lime and Lime Slurry". The hydrated lime shall be added in accordance with the construction method in Item 301, "Asphalt Antistripping Agents". This lime will not be paid for directly, but will be subsidiary to this item.

Air void requirements are waived.

Item 421: Hydraulic Cement Concrete

The Engineer will provide curing facilities and strength testing equipment for acceptance testing at Livingston Area Office, 3161 Hwy 59 North, Livingston, Texas.

Entrained air is required in all slip formed concrete (bridge rail, concrete traffic barrier, pavement, etc.), but is not required for other structural concrete. Adjust the dosage of air entraining agent for low air content as directed or allowed by the Engineer. If entrained air is provided where not required, only the upper limits of the Special Provision will be enforced.

Item 442: Metal for Structures

Use temperature Zone 1 for CVN testing.

Item 502: Barricades, Signs, and Traffic Handling

Traffic Control Plan (TCP):

Ensure the Contractor's Responsible Person (CRP) for Barricades, Signs and Traffic Handling is available at all times and able to receive instructions from the Engineer or authorized Department representative. The CRP shall be a person that is usually at the project site during normal working hours.

For protection of the traveling public, direct traffic through the work area using signs, flaggers and other devices. Required signs are shown in the plans on the Barricade And Construction Standards and Traffic Control Plan Sheets. The latest edition of the "Texas Manual On Uniform Traffic Control Devices" shall also be used as a guide for handling traffic on this project.

Use "Do Not Pass" (R4-1) signs to mark the beginnings of roadway sections where passing is prohibited and use "Pass With Care" (R4-2) signs to mark the beginnings of roadway sections

where passing is permitted. Install signs at the time signing for project limits are erected. Sign placement shall be verified and approved.

Remove or cover regulatory (black and white) speed limit signs, when not applicable.

Prior to the scarifying operation, place vertical panels at 100 ft. intervals on each side of the roadway to delineate the roadway until that portion of the project is completed.

When pavement work begins, use flashing arrow panels and flaggers 24 hr. per day during inclement weather or as directed.

Install "No Center Stripe" (CW8-12) signs as directed. Install "Loose Gravel" (CW8-7) and "Next XX Miles" (CW16-4) signs as directed prior to the start of surface treatment operations.

Restrict construction work to single lane widths with only minor disruptions in traffic flow. Lane closures shall conform to the traffic control plan for lane closures as shown in the plans. No overnight closures will be permitted.

Limit lane closures for 2 lane roads to 1 mi. in length, unless otherwise approved.

Lane closure lengths can exclude the end tapers.

Plan the sequence of work so as to minimize the time lane closures are in place. Install lane closures only where construction operations are anticipated to start within 1 hr. and limited to the amount of lane that can be reached by the construction activity within 2 hr. unless otherwise approved.

Provide a flashing arrow panel and a truck-mounted attenuator to supplement required signs and devices for each lane closure.

Provide a pilot car to lead traffic through the work area. The pilot car will not be paid for directly, but will be considered subsidiary to the various bid items.

Halt traffic during the time asphalt is being applied to the roadway. No vehicles will be allowed to pass the asphalt distributor during asphalt application.

Provide adequate flaggers to protect the traveling public when working on or near a roadway carrying traffic. All flaggers shall wear hardhats and reflective vests.

Install "Be Prepared to Stop" (CW20-7B) and "Flagger Ahead" (CW22-7D) signs when flaggers are present. Position the signs where good visibility and traffic control can be maintained.

When directed use a flashing arrow board in addition to the required signs to warn motorists of flaggers.

Use additional flaggers at roadway intersections to direct traffic entering the work area, when deemed necessary by the Engineer.

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Open all traffic lanes to traffic at the close of work each day.

Install "Pavement Ends" (CW8-3) signs where the paved surface of the road ends. Use flashing arrow panels to supplement these signs during nighttime hours.

Provide one high-intensity yellow, rotating dome-light on all equipment such as distributors, spreader boxes, lay-down machines, rollers, backhoes, road graders, loaders, etc. Mount lights high enough to be visible from all directions and operating when the equipment is within 30 ft. of the travel way. On all other equipment such as trucks, trailers, automobiles, etc. use emergency flashers while within the work zone.

Install "Slow Down on Wet Road" (CW8-5a), "Shoulder Drop-Off" (CW8-9a), "Uneven Lanes" (CW8-11), "Bump" (CW8-1) and "Soft Shoulder" (CW8-4) signs during construction as directed.

Restrict construction operations so that no drop off along the edge of pavement will remain overnight.

All blading, rolling and scraper work to construct and remove temporary slopes adjacent to pavement drop-offs, will be considered subsidiary to various bid items.

Notify the Engineer prior to placing any materials or equipment on the right of way. Locate equipment, stockpiles or other materials not in use as far as possible from the driving lanes and in no case closer than 30 ft. unless otherwise authorized. Any equipment, stockpiles, or materials placed within 30 ft. of the driving lane must have adequate signs, barricades or other warning devices as approved. As a minimum place an 8 ft. wide TY III Barricade on the approach side of each site that is within 30 ft. of the driving lane. Barricade the site similarly on the departure side if the location is within 30 ft. of the opposing traffic lane.

Item 504: Field Office and Laboratory

Provide a Type D Structure. Asphalt content will be determined by the ignition method.

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

Before beginning work, designate in writing a Contractor's Responsible Person (CRP_e) who will be responsible for Temporary Erosion, Sedimentation, and Environmental Controls associated with this project. The CRP_e shall be responsible for taking or directing corrective measures of installation and maintenance deficiencies as soon as possible. Ensure the CRP_e is available at all times and able to receive instructions from the Engineer or authorized Department representative. The CRP_e shall be a person that is usually at the project site during normal working hours.

Direct attention to the EPIC sheet(s) for particular information regarding erosion control best management practices (BMPs) and other environmental issues of concern on this project.

BMPs may be modified by the Engineer during the execution of this contract to improve performance.

Install temporary erosion control measures as areas are disturbed by construction activities. Maintain and replace these measures as needed until areas are stabilized with permanent erosion control measures. Install permanent erosion control measures as soon as earthwork is complete, as directed, and not as a final item of work.

When permitted by the Engineer, "Excavator Work (Erosion and Sediment Control)" or "Front End Loader Work (Erosion and Sediment Control)" may be substituted for "Backhoe Work (Erosion and Sediment Control)". If a substitution is permitted and made, payment will be made under bid item "Backhoe Work (Erosion and Sediment Control)" and the unit price bid will not be adjusted.

The Storm Water Pollution Prevention Plan for this project shall include using the following erosion control measures as directed:

1. Temporary Seeding
2. Permanent Seeding
3. Temporary Sediment Control Fence
4. Cellulose Fiber Mulch

Other erosion or water pollution control measures deemed necessary by the Engineer will be paid for in accordance with Article 4.2, "Changes in the Work".

Item 529: Concrete Curb, Gutter, and Combined Curb and Gutter

Concrete curb for the metal beam guard fence transition shall have one No. 3 or No. 4 bar for longitudinal reinforcement. Dowel the curb into the pavement structure using 12 in. long No. 3 or No.4 bars at 18 in spacing.

Item 530: Intersections, Driveways, and Turnouts

Welded wire fabric will not be allowed for reinforcing concrete driveways. Use reinforcing steel consisting of No. 3 or 4 bars meeting the requirements of grade 40 or 60 reinforcing steel. Place bars on 12 in. centers in each direction, supported on reinforcing chairs.

Unless otherwise directed, install 1/2 in. pre-molded expansion joint material between existing concrete and new concrete.

Item 540: Metal Beam Guard Fence

Use round timber posts.

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At the close of work each day, protect the ends of metal beam guard fence in an approved manner, so that no blunt ends are exposed to approaching traffic. Plastic drums will be required at these locations.

Item 542: Removing Metal Beam Guard Fence

Neatly stack salvaged materials at 3161 US 59 North, Livingston, TX 77351.

Item 560: Mailbox Assemblies

Repair and, if necessary, replace mailboxes damaged by construction operations.

The number and type of mailbox assemblies shown in the plans are for estimating purposes; actual quantities may vary.

Use 3 size 2 reflectors mounted in a diagonal position as directed for single and double mailbox assemblies.

Use 3 strips of reflective sheeting for multiple mailbox assemblies in lieu of the Type 2 object marker shown on the MB-11(1) Standard. Each strip shall be approximately 3 in. wide and spaced as directed. Use reflective sheeting conforming to DMS-8600.

Item 585: Ride Quality for Pavement Surfaces

Use Surface Test Type B pay adjustment schedule 2.

Item 644: Small Roadside Sign Supports and Assemblies

Install adjacent signs with bottom edges at equal heights.

Sign placement shall be in accordance with the "Sign Crew Field Book" and as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Stake all sign support locations for verification and approval.

Existing supports shall not be reused, and shall become the property of the Contractor.

Salvage all sign blanks to be removed and deliver the same day to TxDOT's facility at 3161 US 59 North, Livingston, TX 77351.

Item 656: Foundations for Traffic Control Devices

Note and heed all utility warnings before digging in the vicinity of underground utilities.

Before excavating for foundations, take adequate precautions, by probing or uncovering by hand, to prevent damage to storm sewers and public or private utilities. Locations of utility lines and

cables shown in the plans are approximate. Other lines and cables may have been installed since completion of these plans.

Item 658: Delineator and Object Marker Assemblies

Install delineators on the departure side of block outs when mounting to metal beam guard fence and guardrail end treatments.

Install Type C barrier reflectors on top of concrete bridge rail and concrete barriers.

Item 662: Work Zone Pavement Markings

Standard work zone pavement markings shall be paint and glass beads or thermoplastic.

Install short term pavement markings (removable) on the finish course of the overlay immediately following final rolling, offset from lane lines so there will be no conflict with permanent stripes.

After placement of permanent striping on the finish course, remove all short term pavement markings.

Furnish Type II glass beads conforming to DMS-8290, "Glass Traffic Beads", for hot applied thermoplastic and traffic paint markings.

Item 666: Reflectorized Pavement Markings

Remove loose aggregate immediately prior to placing pavement markings.

Place reflectorized pavement markings no sooner than 3 days nor later than 14 days after placement of the final surface.

Before construction operations begin, observe and mark existing passing/no passing zones. Passing/no passing zones shall be verified prior to placement of permanent pavement markings.

Furnish Type II glass beads conforming to DMS-8290, "Glass Traffic Beads", for Type I and II Markings.

Item 672: Raised Pavement Markers

Place permanent raised pavement markers after permanent striping has been completed.

Item 3224: Dense-Graded Hot-Mix Asphalt (QC/QA)

Target laboratory molded density is 97 %.

Shoulders and ramps are not subject to in-place air void determination and pay adjustment.

County: Polk**Control:** 0341-03-036**Highway:** US 287

Furnish coarse aggregates for the final surface of travel lanes with a minimum class A surface aggregate classification.

No Department-owned RAP is available.

Furnish a PG binder with a minimum high-temperature grade of PG 58 for tack coat binder in accordance with Item 300, "Asphalt, Oils, and Emulsions".

Operate the spreading and finishing machine at a uniform forward speed consistent with the plant production rate, hauling capability, and roller train capacity to result in a continuous operation. The speed shall be slow enough so that stopping between trucks is not ordinarily required. If, in the opinion of the Engineer, sporadic delivery of material is adversely affecting the HMA placement, the Engineer may require paving operations to cease until acceptable methods are employed to minimize starting and stopping of the paver.

A material transfer vehicle (MTV) will be required for all surface courses of HMA on this project. An MTV is defined as a self-propelled, wheel-mounted vehicle capable of receiving HMA from the haul trucks separate from the paver. The MTV shall have a minimum storage capacity of approximately 25 tons and shall be equipped with a pivoting discharge conveyor and a means of completely remixing the HMA prior to placement. The Engineer may approve an alternative device on a trial basis for the surface course. This device shall be capable of receiving HMA separate from the paver and must have remixing capabilities. For all other courses of HMA, other than the surface, an alternative device may be used as long as it is capable of receiving HMA separate from the paver.

Add hydrated lime to all HMA mixtures at a rate of 1.0% by weight of the total aggregate, except for those mixtures containing RAP and/or RAS. Mixtures that contain RAP and/or RAS shall be designed at a rate of 0.5 % of lime by weight and the test results will be evaluated by the engineer to determine if lime or a liquid anti-strip additive will be used. The hydrated lime shall meet the requirements of DMS-6350, "Lime and Lime Slurry". The hydrated lime shall be added in accordance with the construction method in Item 301, "Asphalt Antistripping Agents". This lime will not be paid for directly, but will be subsidiary to this item.

Provide trucks to the laydown machine to insure continuous operation of the laydown machine.

Limit uneven pavement to 2 days production.

Along outside pavement edges construct a 3:1 maximum taper or backfill the same day as shown on the plans or as directed.