NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 10/26/2016

Control	**0911-28-037**
Project	**C 911-28-37**
Highway	**VA**
County	**HOUSTON**

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an adendum 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.

04/99

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: C 911-28-37 CONTROL: 0911-28-037
COUNTY: HOUSTON
LETTING: 11/03/2016
REFERENCE NO: 1021

PROPOSAL ADDENDUMS

_ PROPOSAL COVER
X BID INSERTS (SH. NO.: 1-4, 2-4, 3-4))
X GENERAL NOTES (SH. NO.: E)
)
_ SPEC LIST (SH. NO.:)
_ SPECIAL PROVISIONS:
ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
ADDED:

DELETED:

X OTHER: PLAN SHEETS AND OTHER CHANGES.

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS
1-4 REMOVED AND REPLACED 247-6053 WITH 247-6061
REVISED EST QUANT ITEM 316-6029
REVISED EST QUANT ITEM 316-6417
2-4 REVISED EST QUANT ITEM 344-6104
3-4 REVISED EST QUANT ITEM 531-6001

GENERAL NOTES
SHEET 6B (GN SHEET E) LAST NOTE FOR ITEM 247 DELETED

PLAN SHEETS
SHEET 6B (GN SHEET E) LAST NOTE FOR ITEM 247 DELETED
SHEET 7: E & Q SHEET - REVISED TO MATCH ESTIMATE REVISIONS
SHEET 8 ADDED, DELETED AND CHANGED VARIOUS ITEMS, QUANTITIES
(SEE REV SHEET FOR SPECIFICS)
SHEET 43: ADD NOTE CONSTRUCT 5 FOOT SIDEWALK

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	6001		PREPARING ROW DOLLARS and CENTS	AC	5.270	1
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	6,042.000	2
	132	6004		EMBANKMENT (FINAL)(DENS CONT)(TY B) DOLLARS and CENTS	CY	3,810.000	3
	164	6009		BROADCAST SEED (TEMP) (WARM) DOLLARS and CENTS	SY	6,909.000	4
	164	6011		BROADCAST SEED (TEMP) (COOL) DOLLARS and CENTS	SY	6,909.000	5
	164	6021		CELL FBR MLCH SEED(PERM)(RURAL)(SANDY) DOLLARS and CENTS	SY	13,817.000	6
	168	6001		VEGETATIVE WATERING DOLLARS and CENTS	MG	276.000	7
	169	6002		SOIL RETENTION BLANKETS (CL 1) (TY B) DOLLARS and CENTS	SY	9,848.000	8
	247	6061		FL BS (CMP IN PLC)(TYA GR1-2) (6") DOLLARS and CENTS	SY	9,918.000	9
	316	6029		ASPH (RC-250) DOLLARS and CENTS	GAL	2,480.000	10
	316	6417		AGGR (TY E OR L GR 5) DOLLARS and CENTS	CY	77.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	344	6104		SUPERPAVE MIXTURES SP-D SAC-B PG64-22 DOLLARS and CENTS	TON	1,102.000	12
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	312.000	13
	420	6074		CL C CONC (MISC) DOLLARS and CENTS	CY	58.000	14
	432	6003		RIPRAP (CONC)(6 IN) DOLLARS and CENTS	CY	5.000	15
	450	6049		RAIL (HANDRAIL)(TY C) DOLLARS and CENTS	LF	118.000	16
	464	6003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	226.000	17
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	100.000	18
	465	6158		INLET(COMPL)(PAZD)(FG)(3FTX3FT-3FTX-3FT) DOLLARS and CENTS	EA	1.000	19
	467	6356		SET (TY II) (18 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	7.000	20
	467	6358		SET (TY II) (18 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	7.000	21
	467	6363		SET (TY II) (18 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	2.000	22
	467	6388		SET (TY II) (24 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	1.000	23

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	467	6390		SET (TY II) (24 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	2.000	24
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	25
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN-DLING DOLLARS and CENTS	MO	9.000	26
	506	6002	002	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	120.000	27
	506	6011	002	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	120.000	28
	506	6020	002	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	133.000	29
	506	6024	002	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	133.000	30
	506	6038	002	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	1,319.000	31
	506	6039	002	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	1,319.000	32
	529	6008		CONC CURB & GUTTER (TY II) DOLLARS and CENTS	LF	545.000	33
	531	6001		CONC SIDEWALKS (4") DOLLARS and CENTS	SY	37.000	34
	531	6005		CURB RAMPS (TY 2) DOLLARS and CENTS	EA	1.000	35

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	552	6009		GATE (SPECIAL) DOLLARS and CENTS	EA	1.000	36
	644	6060		IN SM RD SN SUP&AM TYTWT(1)WS(P) DOLLARS and CENTS	EA	22.000	37
	644	6071		RELOCATE SM RD SN SUP&AM TY TWT DOLLARS and CENTS	EA	4.000	38
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	2.000	39
	666	6035		REFL PAV MRK TY I (W)8"(SLD)(090MIL) DOLLARS and CENTS	LF	68.000	40
	666	6302		RE PM W/RET REQ TY I (W)4"(SLD)(090MIL) DOLLARS and CENTS	LF	1,133.000	41
	666	6314		RE PM W/RET REQ TY I (Y)4"(SLD)(090MIL) DOLLARS and CENTS	LF	790.000	42
	668	6055		PRE PM TY B(ACC PRK)(BL&WH)(W/ BORDR)LG DOLLARS and CENTS	EA	6.000	43
	668	6076		PREFAB PAV MRK TY C (W) (24") (SLD) DOLLARS and CENTS	LF	123.000	44

GENERAL NOTES:

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 subsidiary to various bid items.

Furnish materials and make repairs to the existing roadway at any location damaged by construction operations. This work shall be done in an approved manner and will be subsidiary to various bid items.

Ensure drainage structures and outfall channels constructed on this project are free of silt and debris at the time of project acceptance. Final clean out work will be subsidiary to various bid items.

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

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.

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.

Prior to contract letting, bidders may obtain a computerized transfer of files (from the Engineer's office) that contains roadway culvert cross sections. If copies of the actual cross sections in addition to, or instead of, the electronic data are requested, they will be available at the Engineer's office for copying by the bidder (at the bidder's expense).

Typical TPWD Roadway Project General Notes:

1. Periodically throughout this project, the Contractor will be required to cooperate and coordinate work activities with building and utility Contractors working on the site for the Texas Parks and Wildlife Department. Infrequent disruptions and delays should be anticipated. Additional compensation will not be provided due to any disruptions or delays that may occur as a result of these work coordination efforts.

2. The Contractor is required to coordinate with the Texas Parks and Wildlife Department Park Superintendent prior to the establishment of any material and/or equipment staging or storage areas other than those shown on the plans. The staging and storage areas must be approved by both the Engineer and the Park Superintendent prior to the start of work and thereafter, if a change of location becomes necessary.

3. The Contractor shall hold a weekly meeting with a TxDOT representative, the Park Superintendent, and the Contractor's Superintendent to review and discuss the construction work and traffic control procedures planned for the following two-week period.

4. The Contractor is not authorized to work on weekends or major holidays without prior written approval from both the Engineer and the Park Superintendent.

5. Mitigate or replace unnecessary damage to trees or shrubs within and adjacent to the limits of construction. The Contractor shall replace or mitigate damaged trees or shrubs with like size and types of trees or shrubs damaged. Final determination of the replacement or mitigation requirements will be determined by the TxDOT Landscape Architect. All cost associated with the replacement or mitigation cost will be the responsibility of the Contractor.

6. Repair or replace any damage to utilities within and adjacent to the limits of construction. Any replacement cost will be the responsibility of the Contractor.

7. Archeological monitoring will be provided by TPWD during construction activities. As such, the Contractor will be required to notify TPWD's archeological monitors before any ground disturbing work can be performed on any phase of the project. Lead time notification shall take place at the weekly meetings, but not less than two weeks in advance of the proposed work.

Item 7: Legal Relations and Responsibilities

The total disturbed area for this project is 5.27 acres. The disturbed area in this project 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 the ROW. When the total area disturbed for all projects in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW and within 1 mile of the project limits to the Engineer and to any 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 Item 8, Section 3.1.4, "Standard Workweek".

Submit monthly progress schedules no later than the 20th calendar day of the month. Failure to comply with this deadline may result in the Engineer withholding progress (monthly) payments.

Item 100: Preparing Right of Way

The equipment used to trim limbs shall be approved. A boom axe will not be allowed.

The removal of trees and vegetation shall be subsidiary to Item 100, “Preparing ROW”. Preserve all trees designated by the Engineer.

The removal of any existing fence will not be paid directly, but shall be considered subsidiary to Item 100, “Preparing ROW.”.

Since most of the work to be performed under this project falls within the boundaries of Mission Tejas State Park, there are no defined right of way lines paralleling the outer edge of the new roadways or parking lots. Therefore, the limits of right of way preparation for these new roads, parking lots and sidewalks shall include the width of the construction from a point either 4ft beyond the proposed edges of pavement or from the points where earthwork and /or ditch slopes intercept with the natural ground, whichever is greatest.

Limits of tree trimming shall extend from the pavement surface upward no more than 14ft above the pavement surface and laterally no further than 8ft each side of the roadway centerline. Trees that are required to be removed will be designated.

Tree removal and trimming work shall only be performed between September 1 and February 28. No tree removal or trimming will be allowed during the migratory bird nesting season, which begins March 1 and extends through August 31 of each year.

All tree removal and trimming work shall be monitored by Texas Parks and Wildlife natural resource personnel. The Contractor shall provide written notice to the Superintendent of Mission Tejas State Park at least two weeks prior to the start of tree removal and trimming activities so that scheduling of such natural resource monitoring personnel may be arranged to coincide with tree removal and trimming work.

Unless marked for tree salvage / storage, all trees and brush shall be removed from Texas Parks and Wildlife property and be disposed of in accordance with all local, state and federal regulations. No burning will be allowed on Park property. Mulching will be allowed, but mulch is also required to be removed from Park property. Coordinate temporary stockpile location with TPWD.

The Contractor is prohibited from removing grass vegetation throughout the entire project limits and then ceasing construction for long periods, typically over three weeks. The Contractor schedule shall be developed based on staged vegetation removal and limiting disturbed soil to no more than 25 percent at one time, unless otherwise approved by the Engineer. Should the Contractor not be able to control sediment and erosion adequately for areas disturbed, TxDOT shall substantially reduce the size of soil areas that the Contractor may disturb. Should the project be evaluated to have sediment control problems as a result of the Contractor disturbing excessive amounts of soil, the Contractor shall be required to immediately re-vegetate (seed and water) those disturbed areas at no cost to TxDOT.

Item110: Excavation
Item 132: Embankment

Hauling materials with scrapers across or along existing roadways will not be permitted without written permission.

Drying of material, for the contractor's convenience, deeper than 6 inches below subgrade elevations will be subsidiary to various bid items.

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

Specification Data			
Description	**Soil Constants**		
	Max LL	**Max PI**	**Min PI**
Embankment (Type A OR C)	40	18	6

Item 164: Seeding for Erosion Control

The TPWD will require the following varieties of seed to be used:

Haskell Side Oats grama--- 5#/acre
Sand Lovegrass- Eragrostis trichodes---2#/acre
Purpletop- Tridens flavens---10#/acre
Green Sprangletop--- 2#/acre
Virginia wild rye- Elymus virginicus (cool season) 10#/acre
Little bluestem ---6#/acre
Cereal rye grain (short lived cover/cool season)---50#/acre

Suggested application via weed-free hydromulch.
Final grading and stabilization (seeding) shall be achieved as soon as possible and not scheduled only for the end of the project. Final grading and stabilization should be initiated as the overall work progresses and should be scheduled in sequence with completion of base course installation along the length of the road project. Place Block Sod immediately following completion of the surface HMA.

Multiple mobilizations of the seeding crews will be expected to comply with the Construction General Permit of the Texas Pollution Elimination Discharge System requirements for re-vegetating disturbed soils.

For drill seeding installations, the pasture or rangeland type drill shall have a minimum of three seeding compartments to separate the fine and fluffy seeds and must be capable of being calibrated so the seed mixtures will be planted uniformly.

Item 166: Fertilizer

Fertilize all seeded or sodded areas.

Item 168: Vegetative Watering

Equip water trucks with sprinkler systems capable of watering the entire seeded or sodded areas from the roadway.

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

Item 169: Soil Retention Blankets

The approved Product List for Erosion Control Products is available from the Department's Maintenance Division at:

http://www.txdot.gov/business/resources/erosion-control.html

For this project, soil retention blanket products must be selected from the following list:

Profile Products Cocoflex, Western Excelsior Rc-1, Landmark Earth Solutions Safe Slope Xtreme, Central Fiber Spraymatrix, East Coast Erosion Blankets ECS-1, Enviroscape S1000, Nebraska DOT Crimped Straw (4 Tons/Acre), Profile Products ProMatrix, US Erosion Control Products US-1X NN.

With approval from the Engineer, other soil retention blankets may be chosen from the TxDOT approved list if they do not contain plastic netting or if they contain netting, it must be loosely woven, natural fiber netting.

Item 247: Flexible Base

Provide flexible base with a minimum plasticity index of 2.

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

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 302: Aggregates for Surface Treatments

Furnish Type E aggregate consisting of 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 subsidiary to various bid items.

No surface aggregate classification is required.

Item 316: Seal Coat

Open season for asphalt placement is from May 1 thru August 31. Do not place asphalt outside 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, seal the entire surface width.

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

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

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

Item 320: Equipment for Asphalt Concrete Pavement

Cover each load of asphalt with waterproof tarpaulins.

Item 344: Superpave Mixtures

Furnish coarse aggregates for the final surface of travel lanes with a minimum class A surface aggregate classification. No blending is allowed.

No Department-owned RAP is available.

No RAS allowed in surface courses or thin level-up courses.

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 performance-designed mixtures at a rate of 1.0% by weight of the total aggregate, except for those mixtures containing RAP. Mixtures that contain RAP 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 be subsidiary to this item.

Design a mixture with a gradation that passes below the reference zone..

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.

The contractor shall remove and properly dispose of any piles of asphaltic concrete and all other debris left on the Right of Way and in Mission Tejas State Park.

Item 427: Surface Finishes for Concrete

Provide a rub finish for Surface Area I.

Item 432: Riprap

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

Item 464: Reinforced Concrete Pipe

Lay each pipe culvert to the line and grade as directed.

When excavation does not generate enough material to complete the backfill, additional material must be approved prior to use. Additional material will be subsidiary to various bid items.

Item 465: Junction Boxes, Manholes, and Inlets

All Junction Boxes, Manholes, and Inlets are to be precast unless otherwise shown on the plans or directed by the Engineer.

Construct inlets in two stages, the top portion (stage two) shall be cast in place.

Item 467: Safety End Treatment

Use Type II precast concrete units of the same style and design.

Provide 12 in. deep toewalls on Type II precast safety end treatments.

To improve drainage, grade existing ditch within ten feet of proposed safety end treatment. This work shall be subsidiary to Item 467, “Safety End Treatment.”

When excavation does not generate enough material to complete the backfill, additional material must be approved prior to use. Additional material will be subsidiary to various bid items.

Check each location where safety end treatments are to be installed to verify pipe lengths shown will produce the desired slope. Extra pipe will be paid for, but removing and replacing safety end treatment units previously installed under this Contract will not be paid for.

Place safety end treatments along the same slope as the pipe.

Item 502: Barricades, Signs, and Traffic Handling

Traffic Control Plan (TCP):

Ensure the Contractor’s Responsible Person (CRP) or alternate, 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.

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.

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” (CW3-4) and “Flagger Ahead” (CW20-7aD) signs when flaggers are present. Position the signs where good visibility and traffic control can be maintained.

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

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.

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 or barrels on the approach side of each site that is within 30 ft. of the driving lane. Use TY III Barricade or barrels for 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.

Provide a lockable file cabinet, desk and chair in a contractor's field office for TxDOT use.

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

The Best Management Practices for this project shall include using the following erosion control measures as directed:

1.----Rock Filter Dam

2.----Soil Retention Blanket & Broadcast Seed

3.----Cell Fiber Mulch

Other erosion or water pollution control measure deemed necessary by the Engineer will be paid for in accordance with article 4.4, "Changes in the Work".

Place temporary sediment control fence at locations as directed.

Item 531: Sidewalks

Welded wire fabric will not be allowed for reinforcing sidewalks. Use reinforcing steel consisting of No. 3 or 4 bars meeting the requirements of grade 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.

Construct curb ramps and landings with a minimum depth of 4 inches, unless otherwise shown in the plans.

Item 585: Ride Quality for Pavement Surfaces

Use Surface Test Type A.

Item 644: Small Roadside Sign 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.

Place relocated signs as close as feasible to existing signs, unless placement conflicts with the Sign Crew Field Book. Salvage all sign blanks to be removed and delivered the same day to TxDOT's facility at Houston County Maintenance, 1123 E. Loop 304, Crockett, TX.

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 surface treatment.

Type I markings must meet the minimum retroreflectivity values for edgeline markings, centerline or no passing barrier-line, and lane lines when measured any time after 3 days, but not later than 10 days after application..

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

Use Type II pavement markings as a sealer for Type I pavement markings.