

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 8/04/2016

Control	0020-04-016, ETC.
Project	STP 1602(498)
Highway	US 90
County	JEFF DAVIS

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 1602(498)

CONTROL: 0020-04-016

COUNTY: JEFF DAVIS

LETTING: 08/10/2016

REFERENCE NO: 0803

PROPOSAL ADDENDUMS

-
- PROPOSAL COVER
 - BID INSERTS (SH. NO.: 1-5, 2-5, 5-5)
 - GENERAL NOTES (SH. NO.: ALL)

 - SPEC LIST (SH. NO.: 2-2)
 - SPECIAL PROVISIONS:
 - ADDED:

 - DELETED:

 - SPECIAL SPECIFICATIONS:
 - ADDED:

 - DELETED:

 - OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

*****BID INSERTS*****

REVISED QUANTITY FOR THE FOLLOWING BID ITEMS: 132-6001, 510-6003,
6001-6002

DELETED THE FOLLOWING BID ITEM: 340-6050

ADDED THE FOLLOWING BID ITEMS: 340-6011, 677-6001

*****GENERAL NOTES*****

SHEET A: REVISED TABLE 2 UNDER ITEM 340

SHEET C: REVISED ITEM 4, BASIS OF BEARINGS

SHEET D: REVISED ITEM 8, REMOVED SEAL COAT SEASON

SHEET E: ITEM 132 ADDED NOTES FOR EMBANKMENT FOR MOW STRIP

SHEET I: ITEM 510 ADDED

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET J THRU L: PARAGRAPH SHIFT CHANGES

***** PLAN SHEETS *****

SHEET 3 (PROJECT LAYOUT): ADDED REFERENCE NOTE TO VERTICAL ALIGNMENT DATA

SHEET 6, 6A-6E (GENERAL NOTES) REVISED DUE TO ABOVE REVISIONS

SHEET 7 (ESTIMATE & QUANTITY) AND SHEET 8 (QUANTITY SUMMARY): REVISED ITEMS LISTED IN BID INSERTS

SHEET 11 (WORK ZONE TYPICAL SECTIONS): ADDED NOTES ON PORTABLE TRAFFIC SIGNALS, AND TRAFFIC DELAY MINIMUM TO 10 MINUTES

SHEET 49 & 50 (EXISTING VERTICAL CONTROL DATA): NOTES ADDED IDENTIFYING POINTS #1 AND #18 ARE OUTSIDE OF THE PROJECT LIMITS AND ADDED TABLES WITH ADDITIONAL INFORMATION ON STATION, OFFSET, AND ELEVATION

SHEET 51 (MISCELLANEOUS DETAILS): REVISED DETAILS TO COINCIDE WITH LEGEND

SHEET 53 (MISCELLANEOUS DETAILS): ADDED MOW STRIP DETAIL

SHEET 64 (CULVERT LOCATION LAYOUT): REVISED TABLES TO IDENTIFY CULVERTS RECEIVING RIPRAP INSTALLATION

PROJECT STP 1602(498)
COUNTY JEFF DAVIS

Proposal Sheet
TxDOT
FORM 234-B I-61-5M

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	6002		PREPARING ROW DOLLARS and CENTS	STA	1,367.000	1
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	1,838.000	2
	132	6001		EMBANKMENT (FINAL)(ORD COMP)(TY A) DOLLARS and CENTS	CY	2,555.000	3
	150	6002		BLADING DOLLARS and CENTS	HR	261.000	4
	216	6001		PROOF ROLLING DOLLARS and CENTS	HR	131.000	5
	275	6001		CEMENT DOLLARS and CENTS	TON	13,878.000	6
	275	6043		CEMENT TREAT (EXIST MATL)(14") DOLLARS and CENTS	SY	629,402.000	7
	310	6009		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	95,581.000	8
	316	6016		ASPH (AC-20XP) DOLLARS and CENTS	GAL	458,781.000	9
	316	6126		AGGR(TY-PB GR-4 SAC-A) DOLLARS and CENTS	CY	5,794.000	10
	316	6415		AGGR (TY-B GR-3) DOLLARS and CENTS	CY	7,081.000	11
	340	6011		D-GR HMA(SQ) TY-B PG64-22 DOLLARS and CENTS	TON	4,081.000	12

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	354	6045		PLANE ASPH CONC PAV (2") DOLLARS and CENTS	SY	3,801.000	13
	429	6007		CONC STR REPAIR (VERTICAL & OVER- HEAD) DOLLARS and CENTS	SF	48.000	14
	432	6001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	17.000	15
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	1,163.000	16
	450	6018		RAIL (TY T631) DOLLARS and CENTS	LF	881.400	17
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	18
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	9.000	19
	506	6020	003	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	336.000	20
	506	6024	003	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	336.000	21
	506	6038	003	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	2,200.000	22
	506	6039	003	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	2,200.000	23
	510	6003		ONE-WAY TRAF CONT (PORT TRAF SIG) DOLLARS and CENTS	MO	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.				
	530	6012		INTRSCT, DRVWAYS, & TURNOUT(SURF TREAT) DOLLARS and CENTS	SY	5,310.000	25
	540	6001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	16,204.400	26
	540	6009		MTL BEAM GD FEN TRANS (T6) DOLLARS and CENTS	EA	24.000	27
	540	6010		MTL W-BEAM GD FEN ADJUSTMENT DOLLARS and CENTS	LF	75.000	28
	540	6014		SHORT RADIUS DOLLARS and CENTS	LF	48.000	29
	540	6015		DRIVEWAY TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	3.000	30
	540	6017		MTL BM GD FEN (LONG SPAN SYSTEM) DOLLARS and CENTS	LF	550.000	31
	540	6020		MTL W - BEAM GD FEN (LOW FILL CUL- VERT) DOLLARS and CENTS	LF	2,714.200	32
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	217.000	33
	636	6001		ALUMINUM SIGNS (TY A) DOLLARS and CENTS	SF	795.000	34
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	64.000	35
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	6.000	36

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	6007		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	12.000	37
	644	6054		IN SM RD SN SUP&AM TYS80(2)SB(P-EXAL) DOLLARS and CENTS	EA	1.000	38
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	82.000	39
	658	6015		INSTL DEL ASSM (D-SW)SZ (BRF)GF1 DOLLARS and CENTS	EA	330.000	40
	658	6040		INSTL DEL ASSM (D-DW)SZ 2(WC)GND DOLLARS and CENTS	EA	65.000	41
	658	6047		INSTL OM ASSM (OM-2Y)(WC)GND DOLLARS and CENTS	EA	72.000	42
	662	6075		WK ZN PAV MRK REMOV (W)24"(SLD) DOLLARS and CENTS	LF	622.000	43
	662	6095		WK ZN PAV MRK REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	33,103.000	44
	662	6111		WK ZN PAV MRK SHT TERM (TAB)TY Y-2 DOLLARS and CENTS	EA	10,242.000	45
	666	6170		REFL PAV MRK TY II (W) 4" (SLD) DOLLARS and CENTS	LF	273,084.000	46
	666	6205		REFL PAV MRK TY II (Y) 4" (BRK) DOLLARS and CENTS	LF	68,272.000	47
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	1,708.000	48

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Proposal Sheet
 TxDOT
 FORM 234-B I-61-5M

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	136,543.000	49
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	4.000	50

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General Notes:

Tests to be in accordance with the Department's Standard Test Methods

**Table 1
Compaction Requirements for Base Courses**

Item	Description	Outside Roadway Course Density
132 ^{1,2,3}	EMBANKMENT(FINAL)(ORD COMP)(TY A)	(See Below)

1. To a depth of 6 in. below natural ground scarify and compact to a 95% minimum.
2. From natural ground to 24 in. below finished subgrade, 98% minimum compaction.
3. From 24 in. below finished subgrade to finished subgrade, 100% minimum compaction.

**Table 2
Basis of Estimate**

Item	Description	Rate
275	CEMENT	3% at 140 lb./cu.ft.
310	PRIME COAT (MC-30)	0.15 gal./sq.yd.
316	1 st COURSE ASPH (AC-20XP)	0.40 gal./sq.yd.
316	1 ST COURSE AGGR (TY-B GR-3)	90 sq.yd./cu.yd.
316	2 ND COURSE ASPH (AC-20XP)	0.32 gal./sq.yd.
316	2 ND COURSE AGGR (TY-PB GR-4 SAC-A)	110 sq.yd./cu.yd.
340	D-GR HMA(SQ) TY-B PG64-22	110 lb./sq.yd.

1. Deviation from the rates shown will require approval.

General Requirements

Maintain the entire project area in a neat and orderly manner throughout the duration of the work. Remove all construction litter and undesirable vegetation within the right of way inside the project limits. This work will be subsidiary to the various bid items.

Become familiar with project site prior to submitting bids.

Where nighttime work is approved, provide adequate lighting for the entire work site as directed. This will be considered subsidiary to the various bid items.

Comply with all Occupational Safety & Health Administration (OSHA) and United States Environmental Protection Agency (EPA) regulations as well as all local and State requirements.

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Refer to the various traffic control plan project overview sheets for the proposed sequence of work. Changes will not be permitted, except as approved in writing by the Engineer.

Electronic copies of earthwork cross-sections are available for copying, at bidding Contractor's expense, at the Area Engineer's office. Horizontal and vertical alignment data and design roadway cross-section data are available in print or electronic format upon request.

Various bid items and their associated quantities have been provided within this contract in order to establish bid prices for the proposed work. Actual work performed as directed will be paid utilizing these prices with no further compensation made regardless of the final quantities.

Obtain Engineer approval for all equipment and vehicles prior to use.

Designate an on-site representative who will have full authority to speak and make decisions on his behalf.

Repair work must be performed within forty-eight (48) hours of notification from the Department. Contact the contract manager to receive direction and approval.

Item 4 – Scope of Work

The project consists of full depth reclamation of existing pavement consisting of cement treatment, seal coat, metal beam guard fence, signing, and pavement markings & delineation.

Provide vehicular and pedestrian access at all times, including Saturdays, Sundays, and holidays. This access includes, but is not limited to, driveways, streets, parking areas, and walkways.

Schedule and perform all work to assure proper drainage during the course of construction operations. All labor, tools, equipment and supervision required, to ensure drainage, removal, and handling of water shall be considered incidental work.

Place the existing top soil and grass in windrows along the edge of the grading operations. After grading operations are completed, spread the top soil and grass uniformly on all slopes and ditches. This work will not be paid for directly, but will be considered subsidiary to the pertinent items of this contract.

Maintain all Contract items until final acceptance of the project.

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Repair any existing pavement, utilities, structures, etc., damaged as a result of construction operations, at no additional cost to the Department.

Basis of bearings is the Texas State Plane Coordinate System, Central Zone (4203), NAD83 (2011). Coordinates and distances shown may be converted to grid by using the surface adjustment factor of 1.00023100. Elevation data is referenced to NAVD88.

Horizontal alignment data shown is for project referencing only.

Item 5 – Control of the Work

The Department will furnish horizontal and vertical reference points. Verify all dimensions and grades before proceeding. Report any discrepancies found immediately. Stationing, as shown in the plans, is approximate.

Do not close more than one (1) lane at any given time. During cement treatment work limit lane closure to one (1) mile, unless otherwise approved.

Utilize a pilot car and temporary or portable traffic signals for one-lane two-way application during roadway work. When closure is left in place during non-working hours, maintain temporary or portable traffic signals.

Apply first course seal coat when a maximum of four (4) miles, in both directions, of cured cement treated area is completed.

Inform the Engineer and the respective utility companies, when it becomes apparent that the utility lines will interfere with the work in progress.

Arrange the operations so that any two consecutive intersections will not be closed at the same time within Valentine. Provide access to intersecting side roads and driveways, outside of Valentine, at all times, unless otherwise directed.

Item 7 – Legal Relations and Responsibilities

Comply with all requirements of the Environmental Permits Issues and Commitments (EPIC) Sheet.

Dispose all waste materials in compliance with Local, State, and Federal regulations. Submit list of all approved waste sites to the Engineer for review.

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Do not discharge any liquid pollutant from vehicles onto the roadside. Immediately clean spills and dispose in compliance with local, state, and federal regulations to the satisfaction of the Engineer at no additional cost to the Department.

Occupational Safety & Health Administration (OSHA) regulations prohibit operations that bring people or equipment within 10 ft. of an energized electrical line. Where workers and/or equipment may be close to an energized electrical line, notify the electrical power company and make all necessary adjustments to ensure the safety of workers near the energized line.

Coordinate street closures with the local fire, police, and other emergency personnel.

Item 8 – Prosecution and Progress

Working days will be calculated in accordance with Section 8.3.1.4., “**Standard Work Week.**”

A bar chart schedule is required for this project conforming to Section 8.5.5.1., “Bar Chart.” Provide updates as directed by the Engineer.

Prior to beginning operations, schedule and attend a preconstruction conference with the Engineer. Provide the Department a written outline of the proposed sequence of work (Bar Chart Schedule) and an estimated progress schedule.

Keep traveled surfaces used in hauling operations clear and free of dirt or other material.

Limit all haul trucks used during seal coat operations to a maximum volume of 14 cubic yards.

Protect from damage and destruction all areas of the right of way, which are not included in the actual limits of the proposed construction areas. Exercise care to prevent damage to trees, vegetation, and other natural features.

Item 9 – Measurement and Payment

Submit Material on Hand (MOH) payment requests at least **three (3)** working days before the end of the month for payment consideration on that month’s estimate.

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Item 100 – Preparing Right of Way

Clear any vegetation immediately prior to grading operations and only at locations as approved.

In areas of excavation and embankment, the existing topsoil and grass sod will be placed in windrows along the edge of the grading operations or as directed. After grading operations are completed, the topsoil and grass will be spread uniformly on all slopes and ditches as directed.

Item 132 – Embankment

Use embankment for leveling mow strip installation as shown on the plans.

All material used for this Item must meet Triaxial Class #4 when tested in accordance with Texas Test Method Tex-117-E, "Triaxial Compression for Disturbed Soils and Base Materials," Part I prior to being delivered to the roadway.

Imported embankment material under this Item must meet the following requirements:

**Table 3
Testing Requirements**

Property	Specification Limit
Liquid limit	≤ 45
Plasticity index (PI)	4 ≤PI ≤15

Locate all material sources out of sight from the roadway at an approved location.

Scarify and compact top 6 in. of existing roadway as directed before additional embankment or base course is placed. This work is subsidiary to various bid items.

Track the side slopes of the embankment to control erosion. This work will be subsidiary to various bid items.

Subgrade compaction will be density control and subsidiary to this Item.

Item 150 – Blading

Use Blading to rework diversion dikes for sediment control and to construct ditch blocks, or as directed.

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Item 275 – Cement Treatment (Road-Mixed)

During this operation the roadbed will be reshaped to establish a proposed 2% cross-slope. Do not damage any existing drainage structure during the cement treatment operation. Damage to any existing drainage structure will be repaired or replaced to the satisfaction of the Engineer at the expense of the contractor.

Do not begin cement treatment operation unless surface treatment will be placed within 14 days.

Skip culverts during cement treatment operation and verify culvert cover pavement structure.

Item 310 – Prime Coat

Prepare and treat existing or newly constructed surface with a bituminous material as provided or as directed by the Engineer. Apply blotter material as required.

Cure prime coat on the cement-stabilized material for at least 48 hr. prior to beginning seal coat placement operations.

Item 316 – Surface Treatments

Obtain Engineer's approval of stockpile locations prior to stockpiling aggregate or other materials.

The Engineer will approve rates of asphalt and aggregate application prior to application.

Prepare the roadway surface prior to placing asphalt to the satisfaction of the Engineer. Some areas may require more extensive cleaning than other areas. This work will not be paid for directly but will be subsidiary to pertinent items.

Surface treat the existing surfaced intersections, curb widenings, and widened dipped sections plus any additional areas encountered during construction to conform to the existing surface. The limits are the right-of-way line or as directed.

Item 450 – Railing

Verify bridge rail spacing and bridge rail post heights prior to ordering of materials.

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Item 502 – Barricades, Signs, and Traffic Handling

Once a month, the Contractor's responsible person for traffic control plan (TCP) compliance will accompany Department personnel on at least one daytime inspection and one nighttime inspection of the traffic control devices used on the project.

Prior to beginning construction, the Engineer will approve the routing of traffic and sequence of work.

Additional signs and barricades, placed as directed, will be considered subsidiary to this Item.

In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have an employee(s) available to respond to emergencies on the project and for taking corrective measures within 30 minutes.

Existing regulatory signs, route marker auxiliaries, guide signs, and warning signs that must be removed due to widening shall be relocated temporarily and erected on approved supports at locations shown in the plans, or as directed. This work will not be paid for directly, but considered subsidiary to this Item.

Notify the Department officials when major traffic changes are to be made, such as detours. Coordinate with the Department on all traffic changes. Advance notification for the following week's work must be made by 5 P.M. on Wednesdays.

Any change to the sequence of work or TCP, with approval, assumes the responsibility for any additional barricade signs and devices.

Use striping operations to channelize traffic into the newly completed roadway, as directed. Maintain shoulders and median areas in a condition capable of serving as emergency paths, as approved. This work will be subsidiary to this Item.

Use portable changeable message signs (PCMS) to alert public of construction two weeks prior to work.

Use truck mounted attenuators as shown on the plans. This will not be paid for directly but will be considered subsidiary to this Item.

Maintain shoulders and median areas in a condition capable of serving as emergency paths as approved. This work will be subsidiary to this Item. Use flaggers when directed. Provide two-way radio communication for all flaggers.

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Place and maintain sufficient additional warning signs, beacons, delineators, and barricades to warn and guide the public of all hazards through the construction zone at all times, and as directed.

Use flashing arrow boards on all tapers for each lane closure.

Some signs, barricades, and channelization devices may not be shown at the precise or measured position. Place the barricades, devices, or signs, with approval, in positions to meet field conditions.

Fill any holes left by barricade or sign supports and restore the area to its original condition.

Use Type A flashing warning lights or delineators to mark open excavation, footings, foundations, or other obstructions near lanes that may be open to traffic, as directed.

For additional information pertaining to channelization, signing, spacing details, and flagging procedures required to regulate, warn, and guide traffic through project, refer to the "Barricade and Construction Standards," BC(1)-14 and to the current *Texas Manual on Uniform Traffic Control Devices(TMUTCD)*.

Remove or cover signs that do not apply to current conditions at the end of each day's work.

Repair and/or replace all signs damaged by the public or due to weather events.

Safety Contingency

The contractor Force Account "Safety Contingency" that has been established for this project is intended to be used for work zone enhancement, to improve the effectiveness of the TCP 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.

Item 506 – Temporary Erosion, Sedimentation, and Environmental Controls

Place Best Method Practices (BMP's) in locations as designated in the plans or as directed to meet field conditions.

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Place a weatherproof bulletin board containing the Texas Commission on Environmental Quality (TCEQ) required information on the project at a site as directed. Post the following documents:

- (1) TCEQ "TPDES Storm Water Program" Primary & Secondary Construction Site Notice (Both must be filled out and signed);
- (2) TCEQ "Notice of Intent"; and
- (3) TCEQ "TPDES Permit."

Place rain gauge(s) at locations as designated.

The total disturbed area for this project is **62.3** acres. The soil disturbed area in this project, all project locations in the Contract, and Contractor Project Specific Locations (PSLs), within one 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 TCEQ for the construction activities shown on the plans. Obtain any required authorization from the TCEQ for any Contractor PSLs for construction support activities on or off right of way. When the total area disturbed for all projects in the Contract and PSLs within one mile of the project limits exceeds five acres, provide a copy of the Contractor Notice of Intent (NOI) PSLs on the right of way to the Engineer (to the appropriate Municipal Separate Storm Sewer System (MS4) Operator when on an Off-system State route).

Place BMP's as shown on the plans, or as directed. Maintain and properly place the erosion control measures to prevent storm water pollution to the Waters of the United States, as directed. Within the project limits, keep all inlets functional as long as possible to accept storm water as part of the Storm Water Pollution Prevention Plan (SWP3), as directed.

The sedimentation fences will be paid at the time of their initial placement. Any required replacement will not be a substitute for proper maintenance and be allowed as directed.

Grading operations will be limited to the catch point of the proposed cross-section.

Item 510 – One Way Traffic Control (Portable Traffic Signal)

Portable traffic signals may be used in two separate areas simultaneously at the Engineer's discretion.

Traffic time delay is not to exceed 10 minutes when portable traffic signals are in use.

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Item 540 – Metal Beam Guard Fence & Item 544 – Guardrail End Treatments

Provide composite blockouts for all Metal Beam Guard Fence (MBGF) posts.

Install guardrails in the direction of traffic flow.

Stake the locations for approval prior to beginning the installation of the proposed MBGF.

Verify MBGF post lengths and heights prior to ordering materials.

At the end of each work day, protect all untreated, incomplete, MBGF/Rail blunt ends exposed to traffic flow during construction until the permanent end treatment is in place. All work and incidentals are considered subsidiary to this Item.

MBGF not used will become the property of the Contractor.

Item 636 – Aluminum Signs

For new back-to-back aluminum signs shown on the plans, the sign that is mounted on the backside of the mount will be paid for directly under this pay item. The front facing sign and sign mounts will be paid in accordance with the Item 644 “Small Roadside Sign Assemblies”.

Item 644 – Small Roadside Sign Assemblies

Stake all sign locations and receive approval prior to sign placement.

The 2-1/2 inch, Schedule 10 post will meet the following requirements:

- 0.120 in. nominal wall thickness
- Seamless or electric-resistance welded steel tubing or pipe
- Steel will be HSLAS Grade 55 per ASTM A1011 or ASTM A1008

Other steel may be used, if it meets the following:

- 55,000 psi minimum yield strength
- 70,000 psi minimum tensile strength
- 20% minimum elongation in 2 in.
- Wall thickness (uncoated) to be within the range of 0.108 in. to 0.132 in. galvanization per ASTM A123 or ASTM A653 G90

For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metalizing with zinc wire per ASTM B833.

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Verify all post lengths to ensure the proper sign height. Remove and replace any sign installed incorrectly. This work will be done at no expense to the Department.

Provide Texas Universal Triangular Slip Base clamp type for all signs as shown on SMD(Slip-1)-08.

As directed, some regulatory and guide signs will be relocated before construction begins. Mark and locate each reference marker perpendicular to the road and along the right of way, or as directed, prior to removal. Re-erect reference markers at their original location upon completion of construction.

Some signs will be salvaged and stockpiled at the Department Maintenance yard in Van Horn, as directed. The remaining signs, sign supports, and assemblies will be removed and disposed of by the contractor.

Item 658 – Delineator and Object Marker Assemblies

Verify all locations with the Engineer prior to installation.

Removal and proper disposal of all existing delineators, object markers, and any non-standard hardware assemblies are not paid directly, but will be considered subsidiary to pertinent items for payment.

Item 662 – Work Zone Pavement Markings

Place work zone pavement markings within fourteen days after placement of first course of the two course surface treatment. Use non-removable paint for work zone pavement markings. Place these pavement markings at the centerline in accordance with item 666 – Retroreflectorized Pavement Markings.

Remove and properly dispose of tabs upon completion of the final striping. This work is considered subsidiary to various bid items.

Place tabs as per the Department's Standard sheet TCP(7-1)-13. Place raised pavement markers in accordance with applicable standards and as directed.

Item 666 –Retroreflectorized Pavement Markings

Use a pilot line for final striping and remove pilot line after all striping is complete. Removal will be in accordance with the methods specified in Item 677, "Eliminating Existing Pavement Markings and Markers," and will be subsidiary to this Item.

COUNTY: JEFF DAVIS

HIGHWAY: US 90

Air blasting or brooming pavement is required as pavement surface preparation and will be subsidiary to the various bid items.

Upon completion of the final striping, remove the temporary tabs by an approved method.

Place permanent pavement markings no sooner than three days, nor later than fourteen days after application of second course of two course surface treatment.

Item 672 – Raised Pavement Markers

Furnish adhesives that conform to DMS-6100, “Epoxy and Adhesives,” and DMS-6130, “Bituminous Adhesive for Pavement Markers,” for this Item.

Do not place raised pavement markers when the pavement surface temperature is below 60°F.

Removal of all existing raised pavement markers will be considered subsidiary to the various bid items.

CONTROL : 0020-04-016, ETC
PROJECT : STP 1602(498)
HIGHWAY : US 90
COUNTY : JEFF DAVIS

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 (103)
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (100)(160)(204)(210)(216)(260)(400)
ITEM 150 BLADING
ITEM 216 PROOF ROLLING (210)
ITEM 275 CEMENT TREATMENT (ROAD-MIXED) (132)(204)(210)(216)(247)
(300)(310)(520)
ITEM 310 PRIME COAT (300)(316)
ITEM 316 SEAL COAT (210)(300)(302)(340)(520)
ITEM 340 DENSE-GRADED HOT-MIX ASPHALT (SMALL QUANTITY) (300)(301)
(320)(520)(585)
ITEM 354 PLANING AND TEXTURING PAVEMENT
ITEM 429 CONCRETE STRUCTURE REPAIR (421)(431)(440)(780)
ITEM 432 RIPRAP (247)(420)(421)(431)(440)
ITEM 450 RAILING (420)(421)(422)(424)(440)(441)(442)(445)(446)
(448)(540)
ITEM 500 MOBILIZATION
ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL
CONTROLS (161)(432)(556)
ITEM 510 ONE-WAY TRAFFIC CONTROL (502)
ITEM 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247)(260)(263)
(275)(276)(292)(316)(330)(334)(340)(360)(421)(440)
ITEM 540 METAL BEAM GUARD FENCE (421)(441)(445)(529)
ITEM 544 GUARDRAIL END TREATMENTS
ITEM 636 SIGNS (643)
ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421)(440)(441)(442)(445)
(636)(643)(656)
ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)

ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(668)(672)(677)
 ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS (316)(502)(662)(677)
 (678)(6040)
 ITEM 672 RAISED PAVEMENT MARKERS (677)(678)
 ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)
 (302)(316)

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 "CARGO PREFERENCE ACT REQUIREMENTS IN FEDERAL AID
 CONTRACTS" (000---241)
 SPECIAL PROVISION "CERTIFICATE OF INTERESTED PARTIES (FORM 1295)"
 (000---249)
 SPECIAL PROVISION TO ITEM 2 (002---004)
 SPECIAL PROVISION TO ITEM 6 (006---001)
 SPECIAL PROVISIONS TO ITEM 7 (007---001)(007---003)(007---004)
 SPECIAL PROVISION TO ITEM 300 (300---009)
 SPECIAL PROVISION TO ITEM 421 (421---002)
 SPECIAL PROVISION TO ITEM 506 (506---003)

SPECIAL SPECIFICATIONS:

ITEM 6001 PORTABLE CHANGEABLE MESSAGE SIGN
 ITEM 6040 MOBILE RETROREFLECTIVITY DATA COLLECTION FOR PAVEMENT
 MARKINGS

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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