

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 1

**DATED 8/03/2015**

<b>Control</b>	<b>0102-07-044</b>
<b>Project</b>	<b>STP 1502(583)</b>
<b>Highway</b>	<b>SH 285</b>
<b>County</b>	<b>BROOKS</b>

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: STP 1502(583)

CONTROL: 0102-07-044

COUNTY: BROOKS

LETTING: 08/04/2015

REFERENCE NO: 0803

**PROPOSAL ADDENDUMS**

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- PROPOSAL COVER
- BID INSERTS (SH. NO.: 2, 5, 6 )
- GENERAL NOTES (SH. NO.: N )

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

DELETED:

- SPECIAL SPECIFICATIONS:
- ADDED:

DELETED:

OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS-

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REVISED QUANTITY FOR BID ITEM 502-6001

REVISED DESCRIPTIVE CODE FOR ITEM 316 FROM 6036 TO 6005

REVISED DESCRIPTIVE CODE FOR ITEM 467 FROM 6215 TO 6214

PLAN SHEETS

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SHEET 2 (INDEX OF SHEETS): REVISED INDEX TO INCLUDE SHEET NO. 231A: FW-0  
(STATE STANDARD)

SHEET 15F (GENERAL NOTES): REVISED 2ND PARAGRAPH UNDER ITEM 512

SHEET 16 (ESTIMATE & QUANTITY SHEET): REVISED DESCRIPTIVE CODE FOR ITEM  
316 FROM 6036 TO 6005

SHEET 16A (ESTIMATE & QUANTITY SHEET): REVISED DESCRIPTIVE CODE FOR ITEM  
467 FROM 6215 TO 6214

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

SHEET 16A (ESTIMATE & QUANTITY SHEET): REVISED QUANTITIES FOR ITEM 502-6001 FROM QNTY OF 21 MONTHS TO 18 MONTHS

SHEET 20 (ROADWAY QUANTITY SUMMARY): REVISED DESCRIPTIVE CODE FOR ITEM 316 FROM 6036 TO 6005

SHEET 22 (DRAINAGE QUANTITY SUMMARY): REVISED DESCRIPTIVE CODE FOR ITEM 467 FROM 6215 TO 6214

SHEET 231A (FW-0): INCLUDED STANDARDS SHEET TO PLAN SET

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	236.300	1
	110	6001		EXCAVATION (ROADWAY)  DOLLARS and CENTS	CY	115,890.000	2
	110	6002		EXCAVATION (CHANNEL)  DOLLARS and CENTS	CY	851.000	3
	132	6006		EMBANKMENT (FINAL)(DENS CONT)(TY C)  DOLLARS and CENTS	CY	14,109.000	4
	160	6005		FURNISHING AND PLACING TOPSOIL  DOLLARS and CENTS	CY	50.000	5
	164	6029		CELL FBR MLCH SEED(TEMP)(WARM)  DOLLARS and CENTS	SY	137,262.000	6
	164	6033		DRILL SEEDING (PERM) (RURAL) (SANDY)  DOLLARS and CENTS	SY	274,524.000	7
	168	6001		VEGETATIVE WATERING  DOLLARS and CENTS	MG	1,000.000	8
	204	6003		SPRINKLING (DUST CONTROL)  DOLLARS and CENTS	MG	2,040.000	9
	247	6225		FL BS (RDWY DEL)(TY E GR 4)(FNAL POS)  DOLLARS and CENTS	CY	36,787.000	10
	251	6056		RWRK BS MTL(TY B)(8")(DEN CNT)(ORG POS)  DOLLARS and CENTS	CY	37,611.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	260	6043		LIME (HYD, COM OR QK)(SLURRY) DOLLARS and CENTS	TON	2,516.000	12
	260	6050		LIME TRT(MIX EXST MATL & NEW BASE)(16") DOLLARS and CENTS	SY	163,712.000	13
	275	6001		CEMENT DOLLARS and CENTS	TON	1,713.000	14
	275	6080		CEMENT TREAT (SUBGRADE)(12") DOLLARS and CENTS	SY	173,090.000	15
	305	6022		SALV, HAUL & STKPL RCL APH PV (4") DOLLARS and CENTS	SY	140,595.000	16
	310	6009		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	32,601.000	17
	316	6005		ASPH (TIER II) DOLLARS and CENTS	GAL	52,158.000	18
	316	6426		AGGR (GR 4P) DOLLARS and CENTS	CY	1,429.000	19
	341	6047		D-GR HMA TY-D SAC-A PG76-22 DOLLARS and CENTS	TON	32,141.000	20
	354	6051		PLANE ASPH CONC PAV (0" TO 1 1/2") DOLLARS and CENTS	SY	973.000	21
	400	6001	001	STRUCT EXCAV DOLLARS and CENTS	CY	2,299.000	22
	400	6005	001	CEM STABIL BKFL DOLLARS and CENTS	CY	285.000	23

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	420	6066		CL C CONC (RAIL FOUNDATION) DOLLARS and CENTS	CY	28.000	24
	420	6136		CL C CONC (RAC-R) DOLLARS and CENTS	CY	219.000	25
	429	6007		CONC STR REPAIR (VERTICAL & OVER- HEAD) DOLLARS and CENTS	SF	325.000	26
	432	6001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	138.000	27
	432	6002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	47.000	28
	432	6008		RIPRAP (CONC)(CL B)(RR8&RR9) DOLLARS and CENTS	CY	106.400	29
	432	6010		RIPRAP (CONC)(CL B)(5 IN) DOLLARS and CENTS	CY	28.000	30
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	43.200	31
	450	6056		RAIL (TY T223) (MOD) DOLLARS and CENTS	LF	1,294.000	32
	459	6008		GABION MATTRESSES (GALV)(18 IN) DOLLARS and CENTS	SY	1,588.000	33
	460	6003		CMP (GAL STL 24 IN) DOLLARS and CENTS	LF	50.000	34
	462	6001		CONC BOX CULV (3 FT X 2 FT) DOLLARS and CENTS	LF	21.000	35

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	462	6002		CONC BOX CULV (3 FT X 3 FT) DOLLARS and CENTS	LF	26.000	36
	462	6003		CONC BOX CULV (4 FT X 2 FT) DOLLARS and CENTS	LF	36.000	37
	462	6007		CONC BOX CULV (5 FT X 3 FT) DOLLARS and CENTS	LF	19.000	38
	462	6010		CONC BOX CULV (6 FT X 3 FT) DOLLARS and CENTS	LF	216.500	39
	462	6014		CONC BOX CULV (7 FT X 3 FT) DOLLARS and CENTS	LF	210.500	40
	462	6025		CONC BOX CULV (9 FT X 6 FT) DOLLARS and CENTS	LF	181.500	41
	462	6030		CONC BOX CULV (10 FT X 6 FT) DOLLARS and CENTS	LF	38.000	42
	462	6034		CONC BOX CULV (10 FT X 10 FT) DOLLARS and CENTS	LF	132.000	43
	464	6003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	238.000	44
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	145.000	45
	466	6143		WINGWALL (FW - 0) (HW=11 FT) DOLLARS and CENTS	EA	1.000	46
	466	6147		WINGWALL (FW - 0) (HW=15 FT) DOLLARS and CENTS	EA	1.000	47

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	466	6156		WINGWALL (FW - 0) (HW=9 FT) DOLLARS and CENTS	EA	1.000	48
	466	6173		WINGWALL (PW - 1) (HW=12 FT) DOLLARS and CENTS	EA	1.000	49
	466	6179		WINGWALL (PW - 1) (HW=4 FT) DOLLARS and CENTS	EA	2.000	50
	466	6180		WINGWALL (PW - 1) (HW=5 FT) DOLLARS and CENTS	EA	4.000	51
	466	6183		WINGWALL (PW - 1) (HW=8 FT) DOLLARS and CENTS	EA	1.000	52
	466	6184		WINGWALL (PW - 1) (HW=9 FT) DOLLARS and CENTS	EA	1.000	53
	467	6115		SET (TY I)(S=3 FT)(HW= 4 FT)(6:1)(C) DOLLARS and CENTS	EA	2.000	54
	467	6119		SET (TY I)(S=3 FT)(HW= 5 FT)(6:1)(C) DOLLARS and CENTS	EA	2.000	55
	467	6146		SET (TY I)(S= 4 FT)(HW= 4 FT)(6:1) (C) DOLLARS and CENTS	EA	3.000	56
	467	6183		SET (TY I)(S= 5 FT)(HW= 5 FT)(6:1) (C) DOLLARS and CENTS	EA	1.000	57
	467	6214		SET (TY I)(S= 6 FT)(HW= 4 FT)(6:1) (C) DOLLARS and CENTS	EA	2.000	58
	467	6363		SET (TY II) (18 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	14.000	59

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	467	6380		SET (TY II) (24 IN) (CMP) (6: 1) (P) DOLLARS and CENTS	EA	4.000	60
	467	6395		SET (TY II) (24 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	12.000	61
	480	6001		CLEAN EXIST CULVERTS DOLLARS and CENTS	EA	7.000	62
	496	6004		REMOV STR (SET) DOLLARS and CENTS	EA	16.000	63
	496	6005		REMOV STR (WINGWALL) DOLLARS and CENTS	EA	22.000	64
	496	6007		REMOV STR (PIPE) DOLLARS and CENTS	LF	221.000	65
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	66
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	18.000	67
	506	6002	001	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	3,362.000	68
	506	6011	001	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	3,362.000	69
	506	6020	001	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	312.000	70
	506	6024	001	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	312.000	71

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	506	6038	001	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	4,986.000	72
	506	6039	001	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	4,986.000	73
	506	6041	001	BIODEG EROSN CONT LOGS (INSTL) (12") DOLLARS and CENTS	LF	2,333.000	74
	506	6043	001	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	2,333.000	75
	508	6001		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	22,645.000	76
	512	6001		PORT CTB (FUR & INST)(SGL SLOPE)(TY 1) DOLLARS and CENTS	LF	23,370.000	77
	512	6025		PORT CTB (MOVE)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	25,200.000	78
	512	6049		PORT CTB (REMOVE)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	23,370.000	79
	529	6002		CONC CURB (TY II) DOLLARS and CENTS	LF	97.000	80
	530	6005		DRIVEWAYS (ACP) DOLLARS and CENTS	SY	3,701.000	81
	533	6002		RUMBLE STRIPS (CENTERLINE) DOLLARS and CENTS	LF	27,337.000	82
	540	6001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	1,737.500	83

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	540	6006		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	24.000	84
	542	6001		REMOVE METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	3,774.000	85
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	23.000	86
	545	6001		CRASH CUSH ATTEN (INSTL) DOLLARS and CENTS	EA	23.000	87
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	31.000	88
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	22.000	89
	560	6001		MAILBOX INSTALL-S (TWG-POST) TY 1 DOLLARS and CENTS	EA	2.000	90
	636	6001		ALUMINUM SIGNS (TY A) DOLLARS and CENTS	SF	79.500	91
	644	6027		IN SM RD SN SUP&AM TYS80(1)SA(P) DOLLARS and CENTS	EA	31.000	92
	644	6030		IN SM RD SN SUP&AM TYS80(1)SA(T) DOLLARS and CENTS	EA	3.000	93
	644	6033		IN SM RD SN SUP&AM TYS80(1)SA(U) DOLLARS and CENTS	EA	2.000	94
	644	6050		IN SM RD SN SUP&AM TYS80(2)SA(P) DOLLARS and CENTS	EA	1.000	95

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	31.000	96
	658	6013		INSTL DEL ASSM (D-SW)SZ (BRF)CTB DOLLARS and CENTS	EA	42.000	97
	658	6048		INSTL OM ASSM (OM-2Z)(FLX)GND DOLLARS and CENTS	EA	13.000	98
	658	6061		INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2 DOLLARS and CENTS	EA	82.000	99
	662	6004		WK ZN PAV MRK NON-REMOV (W)4"(SLD) DOLLARS and CENTS	LF	100,881.000	100
	662	6034		WK ZN PAV MRK NON-REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	102,464.000	101
	666	6006	002	REFL PAV MRK TY I (W)4"(DOT)(100MIL) DOLLARS and CENTS	LF	223.000	102
	666	6036	002	REFL PAV MRK TY I (W)8"(SLD)(100MIL) DOLLARS and CENTS	LF	202.000	103
	666	6048	002	REFL PAV MRK TY I (W)24"(SLD)(100MIL) DOLLARS and CENTS	LF	55.000	104
	666	6054	002	REFL PAV MRK TY I (W)(ARROW)(100MIL) DOLLARS and CENTS	EA	4.000	105
	666	6078	002	REFL PAV MRK TY I (W)(WORD)(100MIL) DOLLARS and CENTS	EA	2.000	106
	666	6300	002	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL) DOLLARS and CENTS	LF	7,790.000	107

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6303	002	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	57,476.000	108
	666	6315	002	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	116,845.000	109
	672	6007		REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	420.000	110
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	1,592.000	111
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	1,114.000	112
	677	6003		ELIM EXT PAV MRK & MRKS (8") DOLLARS and CENTS	LF	348.000	113

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

GENERAL NOTES:

For all pits or quarries, comply with the "Texas Aggregate Quarry and Pit Safety Act."

Provide on a weekly basis a list of equipment, including idle equipment, utilized on the project that week.

The 1-800 call services for utility locations do not include TxDOT facilities. Contact the Pharr District Signal Section (956-702-6225) for coordination regarding TxDOT underground lines.

ITEM 5: Control of the Work

Prior to contract letting, bidders may obtain a free computer diskette or a computerized transfer of files (from the Engineer's office) that contains the earthwork information. If copies of the actual cross sections in addition to, or instead of, the diskette are requested, they will be available at the Engineers office for borrowing by copying companies for the purpose of making copies for the bidder at the bidders expense.

ITEM 7: Legal Relations and Responsibilities

**404 Permit Requirements:**

The Contractor shall note that discharge of permanent or temporary fill material into the waters of the United States (U.S.), including jurisdictional wetlands, as necessary for construction, will require specific approval of the U.S. Army Corps of Engineers (USACE) under section 404 of the clean water act.

TxDOT will obtain the appropriate nationwide or individual permit (s) when necessary as dictated by project specific conditions and the potential to affect USACE jurisdictional areas to address the work detailed in the plans. The Contractor may review the permitted plans at the office of the Area Engineer in charge of construction. TxDOT will hold the Contractor responsible for following all conditions of the approved permit. If the Contractor cannot work within the limits or scope of this permit (s), then it becomes the Contractor's entire responsibility to consult with the USACE on the need for changes or amendments to the conditions of the existing permit (s) as originally obtained by TxDOT. However, the Contractor may request TxDOT to assist in this process by providing complete and specific revised details for TxDOT review and submittal to the USACE. For off Project right of way coordination, the Contractor or his agent shall handle all activities directly with the USACE.

**Project Number:** STP 1502 (583)

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It is essential that any impacts to USACE jurisdictional waters of the U.S., including jurisdictional wetlands, be the minimum necessary to complete the proposed work. If the contractor needs further explanation of the conditions of the permit, including means of compliance, they may contact the Pharr District Environmental Coordinator.

### **Project Specific Locations (PSL's) Coordination**

The contractor shall not initiate activities in a project specific location (PSL) associated with a U.S. Army Corps of Engineers (USACE) permit area that has not been previously evaluated by the USACE as part of the permitting for this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here includes materials delivered to or from the PSL. The permit area includes all waters of the U.S. or associated wetlands affected by activities associated with this project. Special restrictions may be required for such work. The contractor shall be responsible for any and all consultations with the USACE regarding activities, including project specific locations (PSLs), that have not been previously evaluated by the USACE.

The Contractor shall provide the department with a copy of all consultation(s) or approval(s) from the USACE prior to initiating activities.

The contractor may proceed with activities in PSLs that do not affect a USACE permit area if a self determination has been made that the PSL is non-jurisdictional or proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. The contractor is solely responsible for documenting any determination(s) that their activities do not affect a USACE permit area. The contractor shall maintain copies of their determination(s) for review by the department or any regulatory agency.

The disturbed area for 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 re-quirements 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 required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed 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 to the Engineer and to the local government that operates a separate storm sewer system.

In order to expedite the approval process for PSL's or to eliminate or minimize potential impacts to project progress, initiate coordination efforts with the U.S.A.C.E. **within 30 days from the date of "authorization to begin work"**. If this is not done, the contractor waives the right to request any contract time considerations if project progress is impacted and PSL'S approval is still pending.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

Requests submitted to the area engineer will be evaluated on this basis, and will require documentation showing substantial early coordination efforts to expedite the approval process as herein stated. The request shall include a detailed chronological summary status with dates of coordination activities with the resource agencies, including those occurring after the initial coordination, to be reviewed and confirmed by the district's environmental section.

ITEM 8: Prosecution and Progress

Where road closures or detours around structures are necessary to accomplish proposed work, the removal of existing structures and/or cutting of existing pavement will not be permitted until all pre-cast members for the proposed structure have been cast, tested and approved for use.

TxDOT is required to provide 10 working days advanced written notice of all proposed bridge widening, rehabilitation or demolition work to the Texas Department of State Health Services (TDSHS) to allow them the opportunity to both verify information provided regarding asbestos containing materials and abatement, and observe the demolition/renovation work. Considering that this notice will be provided to TDSHS at the beginning of the project for all affected bridge work based on start and finish dates included in the Contractor's original submitted work schedule, any schedule changes proposed by the Contractor shall be submitted to TxDOT at least 15 days prior to the revised or original start date to accommodate the required coordination with TDSHS.

Working days will be computed and charged in accordance with Article 8.3.1. defined as follows:

Upon issuance of written authorization to begin work, all of Item 100 work that is in conflict with utilities, "Preparing Right of Way" will commence unless otherwise directed by the engineer. Contractor shall only perform Prep ROW on the first Phase of construction as much as possible. Item 100 work shall be completed before work begins on other items, unless otherwise authorized by the project engineer. Item 100 will be charged in accordance with Article 8.3.1.4. Standard Workweek.

Prepare progress schedules using the Critical Path Method (CPM).

ITEM 100: Preparing Right of Way

Preparation of ROW will be done in accordance with the construction phasing shown on the Traffic Control Plans. Performance of this item will not be allowed outside of the project's current construction phase without prior approval by the Engineer.

**Project Number:** STP 1502 (583)

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**Highway:** SH 285

ITEM 132: Embankment

Embankment (DENS CONT) shall be Type C with a max. PI of 40. Material used as embankment material in the top two feet below the bottom of Flexible Base shall meet the following requirements based on preliminary tests and such other tests found necessary by the Engineer.

1. The material shall be such as to produce a well-bonded embankment and shall have a minimum PI of 8 and a maximum PI of 30.

It is the Contractor's responsibility to advise the Engineer of the location of the source sufficiently in advance to avoid delay.

Areas to be backfilled shall extend approximately 3-ft out from the edges of the proposed overlay. Final slopes shall be uniform and smooth. The 100-foot station payment includes Backfilling of both sides.

Backfill Ty A shall not contain particles more than two inches in size and shall have a minimum PI of 10 and a maximum PI of 20.

Any additional backfill material necessary due to pre-existing edge conditions or to replace existing fill removed during blading operations will not be paid for directly. It will be considered subsidiary to this bid item.

ITEM 160: Topsoil

Use topsoil as needed and directed by the project engineer for select problem areas. Unless otherwise approved by the project engineer, use topsoil from approved sources outside the right of way as per standard specifications. Existing topsoil is to be salvaged and retained for re-use on the project as topsoil.

ITEM 164: Seeding for Erosion Control

During drill seeding operations, application methods shall be in accordance with the method shown in the Standard Specification Book.

SS-1 Tacking Agent shall be a ratio of 2:1, two (Emulsion) to one (water) and applied at a rate of 0.05 gallons per square yard. The SS-1 Tacking Agent required for Drill Seed operations, will not be paid for directly, but will be subsidiary to Item 164 "Drill Seeding". Watering shall not be used with the Drill Seed Method.

**Project Number:** STP 1502 (583)

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**Highway:** SH 285

Cool Season or Warm Season Grasses shall be included as part of Item 164 (See Table 3 and/or Table 4 in the Standard Specification Manual for dates and seed type).

Seed mixture shall be as specified under Item 164.

ITEM 166: Fertilizer

Fertilizer rate is based on a rate of 100 Lbs. of Nitrogen per acre. The Nitrogen-Phosphorous-Potassium (NPK) ratio shall include a minimum of 5 percent phosphorous and 5 percent Potassium.

Fertilizer shall be homogenized.

ITEM 247: Flexible Base

Flexible Base Type E will be composed of caliche (argillaceous Limestone, calcareous or calcareous clay particles) and may contain stone, conglomerate, gravel, sand or granular materials when these materials are in situ with the caliche.

Flexible Base (TY E GR 4) or (TY D GR 4) crushed concrete shall conform to the following requirements:

Retained on Sq. Sieve	Percent Retained
2"	0
1/2"	20-60
No. 4	40-75
No. 40	70-90
Max. PI:	15
Max. Wet Ball PI:	15
Wet Ball Mill Max Amount:	50
Min. Comp. Strength PSI:	150 at 15 PSI lateral pressure
Triaxial Test	Tex-117-E

The Wet Ball Test (Tex-116-E) shall be run and the Plasticity Index of the material passing the No. 40 sieve shall be determined (Wet Ball PI).

Two (2) percent lime (by weight) will be incorporated into the Flexible Base in the field at the State's expense in accordance with the provisions of Items 260.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

The percent of density as determined by Compaction Ratio (Tex-113-E) for the new Flexible Base shall be a minimum of 98%.

The Contractor's attention is called to the fact that certain existing and/or proposed structures may be within the limits of the Flexible Base. It shall be the Contractor's responsibility to perform construction operations without damage to these structures.

For water added under Item 247, the sulfate content will not exceed 3000-ppm and the chloride content will not exceed 3000-ppm.

ITEM 251: Reworking Base Courses

Quantities of Flexible Base to be salvaged, shown on the typical sections, are for estimating purposes only. All acceptable base material encountered in existing base is to be salvaged as directed by the Engineer regardless of the quantities involved.

Salvaged base shall be used in the bottom course on any of the proposed roadway and/or turnout sections.

Salvaged base may be used on any of the proposed driveway sections.

All surplus salvage base not used on the project will remain the property of TxDOT and will be delivered to the TxDOT maintenance yard in Falfurrias, Texas, on SH 285, 0.85 mile west of US 281.

ITEM 260: Lime Treatment (Road Mixed)

The Contractor's attention is called to the fact that certain existing and/or proposed structures are within the limits of the lime-treated Subgrade. Unless otherwise directed by the Engineer, these structures shall be installed before the final rolling of this Subgrade. It shall be the Contractor's responsibility to perform the proper lime treating operation without damage to these structures. The slurry method of applying lime will be required, except when the lime is to be added to naturally wet materials as directed by the Engineer.

For this project, the Engineer will direct a random number of lime trucks to be check weighed.

The lime shall be added to the Flexible Base and/or salvage base at a central mixing site or mixing plant away from the construction area. The Engineer shall approve the site or plant location and method of mixing.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

The percent of density as determined by Tex-121-E for the new and salvage Flexible Base shall be a minimum of 98% for all courses.

ITEM 300: Asphalts, Oils and Emulsions

Temporary ramps/detours and driveways may use performance grade binder 64-22.

ITEM 301: Asphalt Antistripping Agents

Hydrated Lime shall be added as an Antistripping additive between the rates of 1 % minimum and 2.0% maximum by weight for item 341. If the Hamburg wheel test cannot be met within these limits, Liquid Antistripping agents as approved by the Engineer may be used in conjunction with lime for item 341.

ITEM 302: Aggregate for Surface Treatments

County	CSJ	Highway	Tier	SAC
BROOKS	0102-07-044	SH 285	1	B

The aggregate for the surface treatment shall be surface dry before application unless otherwise directed by the Engineer.

ITEM 305: Salvaging, Hauling, and Stockpiling Reclaimable Asphalt Concrete

Stockpile all surplus RAP material at the TxDOT maintenance yard in Falfurrias, Texas, on SH 285, 0.85 mile west of US 281.

ITEM 310: Prime Coat

The Contractor shall exercise diligence in the application of asphalt by the use of flagging and rolling procedures to keep from spraying or splattering the traveling public with asphaltic material.

All existing Flexible Base, which may become exposed by the milling operation, shall be primed at the rate of 0.2 Gal/SY.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

Do not apply subsequent courses over the initial prime coat any earlier than the day after the prime coat was applied, unless otherwise authorized or directed by the Engineer.

ITEM 316: Surface Treatments

In addition to cleaning by brooming of paved surfaces to be sealed as required by this Item, blading may also be necessary to clean dirt and grass from edges of the pavement and/or turnout areas. The cost of this blading will not be paid for directly, but will be considered subsidiary to the various bid Items of the project.

When applying surface treatment at railroad crossings, a strip of paper shall be placed over the rail and flange areas across the pavement.

The type and grade of asphalt as shown on the plans and/or as directed by the Engineer, shall be used on these projects. Asphalt cement will be used during the warm season. An emulsified asphalt will be used during the cooler season if permitted in writing by the Engineer. The emulsified asphalt, if used, shall be HFRS 2P. Estimated quantities shown for the bid Item is based on an average of the estimated rates of application for asphaltic cement and emulsified asphalt. These rates should be used for estimating and comparison purposes only.

The type and grade of asphalt as shown on the plans and/or as directed by the Engineer, shall be used on these projects. Asphalt cement will be used during the warm season. Estimated quantities shown for the bid Item is based on an average of the estimated rates of application for asphaltic cement. These rates should be used for estimating and comparison purposes only.

The one or two-course surface treatment shall be in place for a sufficient period of time in the opinion of the Engineer, for the surface treatment to properly dry and cure before placing the Asphaltic Concrete Pavement.

Traffic will not be permitted on the surface treatment unless authorized by the Engineer.

When emulsified asphalt is used, do not apply subsequent courses over the surface treatment any earlier than the day after the surface treatment was applied, unless otherwise authorized or directed by the Engineer.

Contractor is to place ACP layer(s) as indicated on plans within 14-calendar days of seal coat placement unless otherwise directed by the engineer.

ITEM 341: Dense-Graded Hot-Mix Asphalt (QC/QA)

The contractor shall exercise diligence in the application of "Tack Coat" by the use of flagging and rolling procedures to keep from spraying or splattering the traveling public with asphaltic material.

Blading (not to exceed more than 3-ft from the pavement edge) may also be necessary to clean dirt and grass from pavement edges and turnout areas as work under this bid Item. The cost of this blading will not be paid for directly, but shall be considered subsidiary to this bid Item.

This project will require the following minimum surface aggregate Classifications:

County	CSJ	Highway	Classification
BROOKS	0102-07-044	SH 285	A

RAP (recycled asphalt pavement) to be recycled will be stockpiled separately from other project sources and Contractor owned RAP. Each stockpile will be clearly marked by the Contractor indicating project source.

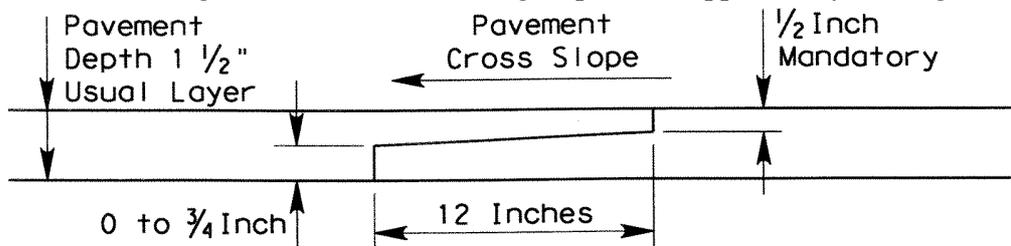
The Contractor shall exercise diligence during milling operations in order to avoid contamination. The RAP stockpiles are subjected to PI and decantation requirements as specified under this Item.

Recycled asphaltic pavement to be salvaged as shown in plans will be available for use as RAP in the hot-mix for this project.

All surplus RAP from this project will remain the property of the State.

Level-up will be placed before the surface course. An asphaltic concrete spreading and finishing machine and/or motor graders; when approved by the Engineer may be used to place the ACP level-up.

All unconfined longitudinal joints shall be constructed with a joint maker providing a maximum 1/2-inch vertical edge and a minimum 6:1 edge taper or as approved by the Engineer.



**NOTCHED WEDGE JOINT**

The engineer may allow for variances to the dimensions shown.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

The Hamburg wheel Test requirement for PG 64 binder will be 5,000 passes @ 0.5 inch rut depth.

Target Lab Molded Density for this project shall be 97%.

Public and private driveways need to have a smooth vertical transition between the edge of pavement and the existing driveways. The contractor is to add a vertical taper if needed which will be subsidiary to Item 341.

The use of RAP and RAS will not be allowed as part of the mix design for the final riding surface.

Use a release agent from the Department's MPL to clean and to coat the inside of truck beds for hauling equipment. Hauling equipment shall be cleaned prior to hauling material to job site. Submit a copy of the bill of lading to the Engineer as part of the QCP. Ensure the pavement is free from any spillage of hydraulic oil or diesel from construction equipment. The Department may reject trucks that contain any foreign material and suspend production if the pavement is contaminated by any pollutants mentioned above.

The percentage of RAS used in the total mix shall not exceed 3% when allowed. The use of only pre-consumer shingles will be permitted when RAS is allowed.

SAC B aggregate must have material properties that require 5 or less on the magnesium sulfate soundness test and 15 or less on the Micro-Deval test.

#### ITEM 354: Planing and Texturing Pavement

Contractor is to place seal coat or ACP layer(s) as indicated on plans within 14-calendar days of planing/milling operation unless otherwise directed by the engineer.

All planing/milling operation drop offs greater than 1-inch need to have a 3:1 slope taper unless otherwise directed by the engineer. The cost of the 3:1 slope taper is subsidiary to item 354.

For full width planing/milling locations, contractor is to place seal coat or ACP layer(s) as indicated on the plans within 2-calendar days of the planing/milling operation unless otherwise directed by the engineer. Contractor will not be allowed to move onto the next planing/milling location or seal coat/ACP overlay location until the exposed area is covered as per above.

Contractor cannot get paid for the planing/milling operation until exposed area is covered as per above.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

ITEM 400: Excavation and Backfill for Structures

If the Contractor elects to cut pavement (existing/detour) for structural work beyond that required by the construction phasing shown in the plans and approved by the Engineer, it shall be restored at his expense and backfilled to its original condition or better in accordance with Item 400.

Unless shown otherwise in the plans, use a 1-ft depth for Item 400 Structural Excavation (Special) for gravel bedding needed below drainage structures with unstable material.

ITEM 421: Hydraulic Cement Concrete

Provide equipment at the batch plant for determining the free moisture and/or absorption of aggregates in accordance with applicable TXDOT Test.

Provide the following items for concrete batch inspection in accordance with specifications outlined in DMS-10101, "Computer Equipment":

- (1) One Desktop Microcomputer or One Laptop Microcomputer
- (2) One Integrated Printer/Scanner/Copier/Fax Unit
- (3) Contractor-Furnished Software
- (4) Hardware

Submit to the Engineer for approval the project locations for all Portland Cement concrete washout areas prior to starting any concrete work.

Use membrane curing, Type 2, for concrete curb, gutter and combined curb and gutter, concrete medians, directional islands and sidewalks.

ITEM 427: Surface Finishes for Concrete

Provide surface finishes for concrete as follows:

- (1) Bridge overpass and underpass structures – surface area I, opaque sealer coating (color to be determined by the Engineer).
- (2) Bridge waterway crossings and bridge class box culvert structures – surface area II, opaque sealer coating (color to be determined by the Engineer).

Concrete traffic barrier/railing (roadway and bridge), and retaining wall coping - opaque sealer coating (color to be determined by the Engineer) to all exposed surfaces.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

ITEM 432: Riprap

Provide Class "A" concrete minimum for riprap aprons placed around all box culvert and pipe safety end treatments. Provide ¼-inch thick dummy joints at least every 15-ft for riprap aprons placed around box and pipe culverts.

Do not use fiber reinforced concrete RIPRAP on side slopes equal to or steeper than 6:1 unless approved by the engineer.

ITEM 462: Concrete Box Culverts and Storm Drains

Provide joints in pre-cast concrete box culverts using any of the methods specified in Item 464, except mortar joints.

Provide pre-cast concrete boxes to expedite traffic handling unless otherwise shown on the plans. Provide the Area Engineer with the casting schedule of all pre-cast concrete boxes prior to beginning any fabrication.

ITEM 464: Reinforced Concrete Pipe

Use tongue and groove pipe where the RCP extends into the lime treated subgrade. The 4-foot depth restriction for heavy equipment passage over pipe structures is voided. The Contractor will be responsible for any construction damage to these facilities.

Do not use mortar joints.

All reinforced concrete pipe shall include rubber gaskets unless shown otherwise on the plans or directed by the engineer.

ITEM 466: Headwalls and Wingwalls

Do not use pre-cast headwalls/wingwalls.

ITEM 467: Safety End Treatment

All Type II SET's shall have riprap, Class "A" minimum, aprons as shown on the plans. The contractor may submit an alternate precast SET design for approval by the Engineer.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

ITEM 502: Barricades, Signs and Traffic Handling

Shadow vehicles equipped with Truck-Mounted Attenuators are required.

A pilot car and radio equipped flaggers shall be required for all undivided roadway locations as directed by the Engineer. The pilot car with necessary flaggers and/or radio equipped flaggers and all signs, equipment, labor and incidentals required for this method of traffic control will not be paid for directly, but shall be considered subsidiary to Item 502.

Replace/relocate all regulatory signs removed due to construction operations with the same sign on fixed support(s) immediately upon its removal. First obtain project Engineer approval before removing any regulatory roadway sign. Required flaggers are to be available to direct traffic during sign intermediate down time.

Relocate any Directional Sign Assemblies removed during construction operations immediately upon their removal.

These signs shall be relocated to a location in accordance with the Latest Version of the "Texas Manual on Uniform Traffic Control Devices". In no case will a sign be removed without a replacement sign and support(s) being readily available and a location established. Removal and relocation of these signs required for traffic control will not be paid for directly, but shall be considered subsidiary to Item 502.

From the beginning to the end of the project, all traffic control devices need to be in acceptable condition as per the Texas Quality Guidelines for Work Zone Traffic Control Devices.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The "Safety Contingency" is not intended to be used in lieu of bid items established by the contract.

ITEM 504: Field Office and Laboratory

For this project a field office will not be required at the project site.

The Contractor will furnish a Type D Structure (Asphalt Mix Laboratory) modified by the following.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

Laboratory room:

The other room of this building will be used as a laboratory and will include access to a bathroom facility from the interior. The laboratory and bathroom facility will have the walls, ceiling and floor insulated such that the air temperature can be maintained at 76 degrees Fahrenheit at all times.

Furnish for the Department's use in the asphalt laboratory one (1) desktop computer.

ITEM 506: Temporary Erosion, Sedimentation, and Environmental Controls

The Contractor Force Account "Erosion Control Maintenance" that has been established for this project is intended to be utilized for work zone Best Management Practice (BMP) maintenance, to improve the effectiveness of the Environmental Controls that may need maintenance attention and/or require replacement while the project is still under the construction stage. These procedures will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent BMP management reviews on the project. The "Erosion Control Maintenance" is not intended to be used in lieu of bid items established by the contract.

ITEM 508: Constructing Detours

Flexible Base, prime coat, and Asphaltic Concrete Pavement used for detours shall meet the requirements of Items 247, 310 and 341 respectively, except for measurement and payment.

ITEM 512: Portable Concrete Traffic Barrier

Contractor to provide concrete median barriers to the project site to be used in conjunction with the suggested traffic control sheets as directed by the Engineer. If needed, modify the ends of the concrete median barriers where the temporary end treatment is attached to the concrete median barrier. Contractor is to provide PCTB reflectors and anchor materials as needed. Any needed PCTB reflectors and anchor materials will be subsidiary to Item 512.

Maintain the concrete median barrier in first class condition. Any concrete median barrier damaged beyond reasonable repair shall be replaced at the Contractor's expense.

During the various construction phases, provide drainage slots in every fourth (min) temporary concrete traffic barrier used for traffic control in order to handle temporary drainage. Provide any additional drainage measures needed as directed by the Engineer.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

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

Curb attached to the MBGF thrie-beam transition section will be subsidiary to the MBGF transition.

ITEM 530: Intersections, Driveways, and Turnouts

Prime coat shall meet the requirements of Item 310.

Daily testing requirements for Hot Mix Asphaltic Concrete Pavements for drives, commercial entrances and/or turnouts may be waived by the Engineer.

Public and private driveways need to have a smooth vertical transition between the proposed driveway and the existing driveway. The contractor is to add a vertical taper if needed which will be subsidiary to Item 530.

ITEM 540: Metal Beam Guard Fence

The optional terminal anchor post with the terminal connector will be required as shown on the Metal Beam Guard Fence Standard.

Galvanize the rail elements supplied for this project using a Type II Zinc Coating.

ITEM 542: Removing Metal Beam Guard Fence

Dispose all metal beam guard fence materials unless shown otherwise in the plans.

ITEM 544: Guardrail End Treatments

Label "end treatment type" on backside of unit at time of installation.

ITEM 560: Mailbox Assemblies

Coordinate and verify final mailbox locations with TxDOT and the US Postmaster.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

ITEM 585: Ride Quality for Pavement Surfaces

Quality control results shall be submitted to TxDOT the next working day after each day's paving.

Pavement areas with public turnout intersections that carry major traffic volumes will not be subjected to inertial profiler testing. These areas shall be evaluated using the 10-ft. Straightedge.

Diamond grinding shall be used to remove localized roughness.

Use Surface Test Type B pay adjustment schedule 1 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces." This includes ramps and service road travel lanes.

ITEMS 636: Aluminum Signs

Complete sign blanks and panels shall be handled and stored at the job site in such a manner that corners, edges and faces are not damaged. Finished sign blanks shall be stored in either a weather-proof warehouse or outside and off the ground in a vertical position. All paper, cardboard and chemically treated separators and packaging shall be removed prior to outside storage.

ITEM 644: Small Roadside Sign Supports and Assemblies

All signs shall be installed as shown in the plans and in accordance with the current edition of the "Texas Manual on Uniform Traffic Control Devices" and the "Sign Crew Field Book" (SCFB).

All signs shall be erected according to the locations shown on the signing layout sheets except that a sign may be shifted in order to secure a more desirable location. All sign locations will be staked as shown in the plans and as approved. It is the intent of the plans to erect all roadside traffic signs with the sign edge a minimum of 6 feet from the edge of the shoulder, or if none, 12 feet from the edge of the travel lane. In curb and gutter sections the sign edge shall be a minimum of 2 feet from the face of the curb.

For this project, aluminum type sign blanks as provided for under Item 636 will be required for all proposed signing installed under Item 644. Aluminum sign blanks less than 7.5 square feet shall be 0.08 inch thick, sign blanks 7.5 to 15 square feet shall be 0.100 inch thick and sign blanks greater than 15 square feet shall be 0.125 inch thick.

All excess excavation shall be spread uniformly inside the right of way as directed and shall be included in the price of these Items.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

Sign types which design details are not shown on the plans shall conform with the latest edition of the Department's "Standard Highway Sign Design for Texas" Manual.

Signs shown to be removed shall include the complete sign installation and separate the sign post at the concrete foundation. The concrete foundation shall be disposed in accordance with this Bid Item. Except for concrete foundations, all removed sign panels, sign posts, and hardware shall remain then property of the Department. All removed sign installations shall be completely disassembled. All salvageable sections of sign panels shall be recycled by TxDOT. The removed sign material will be required to be hauled to the maintenance yard closest to the project. No signs shall be removed without prior approval.

#### ITEM 658, Delineator and Object Marker Assemblies

Delineator assemblies shall be installed 8 feet from the edge of the shoulder unless restricted by some obstruction, in which case, the delineator assembly shall be placed between 2 and 8 feet from the edge of the shoulder.

Bi-directional object markers shall be in accordance with the D&OM standard sheets. The contractor is directed to the standards when instructed where and how to install the object markers.

#### ITEMS 662 and 666: Work Zone Pavement Markings and Reflectorized Pavement Markings

All permanent pavement markings and work zone pavement markings for this project under these Items shall be 0.100 inches (100 mil) thick thermoplastic.

Any permanent pavement markings or non-removal work zone pavement markings lacking reflectivity in accordance with test method Tex 828-B, or that fail to meet minimum retro reflectivity requirements for longitudinal pavement markings when required, will not be paid as per district policy. The roadway will be re-stripped at no additional compensation.

Pavement surface preparation for markings and markers will not be paid for directly, but shall be considered subsidiary to Item 666.

Prior to any striping operations, an on-site coordination meeting between all the parties involved will be required to review striping details and requirements to ensure quality work.

**Project Number:** STP 1502 (583)

**Sheet**

**County:** Brooks

**Control:** 0102-07-044

**Highway:** SH 285

The beads used on this project shall meet the requirements of Departmental Materials Specification DMS-8290, Glass Traffic Beads Texas Type II & III. Use a 50% Type II/ 50% Type III mix utilizing a double drop system with Type III beads dropped first.

For expressway projects, provide channelizing devices at the ramp connections when temporary pavement marking tabs are placed. These channelizing devices will be subsidiary to item 502.

ITEM 677: Eliminating Existing Pavement Markings and Markers

Asphalt and aggregate types and grades shall be as approved in writing when a surface treatment is used to eliminate existing pavement markings.

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