

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 8/02/2010

Control	0398-01-038
Project	STP 2011(353)
Highway	FM 56
County	BOSQUE

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 2011(353) CONTROL: 0398-01-038
COUNTY: BOSQUE
LETTING: 08/10/2010
REFERENCE NO: 0730

PROPOSAL ADDENDUMS

- _ PROPOSAL COVER
X BID INSERTS (SH. NO.: 1-8 THRU 8-8)
X GENERAL NOTES (SH. NO.: I THRU T)

X SPEC LIST (SH. NO.: 1-3)
_ SPECIAL PROVISIONS:
_ ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
_ ADDED:

DELETED:

X OTHER: PLAN SHEETS 11 THRU 19

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS

SHEET 1-8 - ADDED ITEMS 100 2002 AND 100 2006
SHEETS 2-8 THRU 8-8 - SHIFTED DUE TO ADDITION OF ITEMS 100 2002 & 100 2006

GENERAL NOTES

SHEET I - ADDED NOTES FOR ITEM 100
SHEETS J THRU S - SHIFTED DUE TO ADDITION OF ITEM 100 NOTES
SHEET T - ADDED DUE TO ADDITIONAL NOTES

SPECIFICATION LIST

SHEET 1-3 - ADDED ITEM 100

PLAN SHEETS

PLAN SHEET 11- ADDED NOTES FOR ITEM 100
PLAN SHEETS 12 THRU 16 - SHIFTED DUE TO ADDITION OF ITEM 100 NOTES
PLAN SHEET 17 - ADDED ITEMS 100 2002 AND 100 2006
PLAN SHEET 18 - SHIFTED DUE TO ADDITION OF ITEMS 100 2002 AND 100 2006
PLAN SHEET 19 - ADDED SUMMARY OF PREP R.O.W.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	002	PREPARING ROW DOLLARS and CENTS	STA	2.000	1
	100	2006	002	PREP ROW (TREE)(LESS THAN 24" DIA) DOLLARS and CENTS	EA	5.000	2
	132	2020		EMBANKMENT (VEHICLE)(DENS CONT)(TY B) DOLLARS and CENTS	CY	4,000.000	3
	152	2003		ROAD GRADER WORK (DENS CONT) DOLLARS and CENTS	STA	186.000	4
	164	2004	002	BROADCAST SEED (PERM) (RURAL) (CLAY) DOLLARS and CENTS	AC	18.000	5
	164	2010	002	BROADCAST SEED (TEMP) (WARM) DOLLARS and CENTS	AC	9.000	6
	164	2012	002	BROADCAST SEED (TEMP) (COOL) DOLLARS and CENTS	AC	9.000	7
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	1,415.000	8
	216	2001		PROOF ROLLING DOLLARS and CENTS	HR	10.000	9
	247	2044	039	FL BS (CMP IN PLC)(TY A GR 4)(FNAL POS) DOLLARS and CENTS	CY	8,943.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	251	2138		REWORK BS MTL (TY D)(4")(DENS CONT) DOLLARS and CENTS	STA	162.000	11
	276	2080	001	CM TRT(PT MX)(CL M)(TY A)(GR 4)(FN POS) DOLLARS and CENTS	CY	12,205.000	12
	310	2005		PRIME COAT (MC-30 OR AE-P) DOLLARS and CENTS	GAL	945.000	13
	316	2006	016	ASPH (AC-20-5TR) DOLLARS and CENTS	GAL	56,616.000	14
	316	2010	016	ASPH (CRS-2) DOLLARS and CENTS	GAL	3,292.000	15
	316	2015	016	ASPH (RC-250) DOLLARS and CENTS	GAL	16,310.000	16
	316	2363	016	AGGR (TY-PD GR-4 OR TY-PL GR-4)(SAC-B) DOLLARS and CENTS	CY	704.000	17
	316	2406	016	AGGR (TY-B GR-5 OR TY-L GR-5 SAC-B) DOLLARS and CENTS	CY	593.000	18
	316	2513	016	AGGR (TY-PD GR-3 OR TYL-PL GR-3) DOLLARS and CENTS	CY	593.000	19
	316	2621	016	AGGR (TY D GR-3 OR TY L GR-3)(SAC B) DOLLARS and CENTS	CY	59.000	20
	400	2005		CEM STABIL BKFL DOLLARS and CENTS	CY	1,778.000	21

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	ITEM NO	DESC CODE	S.P. NO.				
	402	2001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	184.000	22
	403	2001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	808.000	23
	432	2001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	28.000	24
	432	2021		RIPRAP (STONE PROTECTION)(18 IN) DOLLARS and CENTS	CY	38.000	25
	462	2005		CONC BOX CULV (4 FT X 4 FT) DOLLARS and CENTS	LF	134.000	26
	462	2006		CONC BOX CULV (5 FT X 2 FT) DOLLARS and CENTS	LF	82.000	27
	462	2008		CONC BOX CULV (5 FT X 4 FT) DOLLARS and CENTS	LF	48.000	28
	462	2010		CONC BOX CULV (6 FT X 3 FT) DOLLARS and CENTS	LF	68.000	29
	462	2011		CONC BOX CULV (6 FT X 4 FT) DOLLARS and CENTS	LF	60.000	30
	462	2013		CONC BOX CULV (6 FT X 6 FT) DOLLARS and CENTS	LF	48.000	31
	464	2003	003	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	236.000	32

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	ITEM NO	DESC CODE	S.P. NO.				
	464	2005	003	RC PIPE (CL III)(24 IN) and DOLLARS CENTS	LF	172.000	33
	464	2007	003	RC PIPE (CL III)(30 IN) and DOLLARS CENTS	LF	88.000	34
	466	2047		WINGWALL (PW)(HW=3 FT) and DOLLARS CENTS	EA	1.000	35
	466	2048		WINGWALL (PW)(HW=4 FT) and DOLLARS CENTS	EA	3.000	36
	466	2049		WINGWALL (PW)(HW=5 FT) and DOLLARS CENTS	EA	5.000	37
	466	2050		WINGWALL (PW)(HW=6 FT) and DOLLARS CENTS	EA	1.000	38
	466	2051		WINGWALL (PW)(HW=7 FT) and DOLLARS CENTS	EA	4.000	39
	466	2063		HEADWALL (CH-FW-0)(DIA= 18 IN) and DOLLARS CENTS	EA	2.000	40
	467	2041		SET (TY I)(S= 5 FT)(HW= 6 FT)(3:1)(C) and DOLLARS CENTS	EA	3.000	41
	467	2286		SET (TY II)(18 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	19.000	42
	467	2288		SET (TY II)(24 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	10.000	43

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	ITEM NO	DESC CODE	S.P. NO.				
	467	2290		SET (TY II)(30 IN)(RCP)(6:1)(P) DOLLARS and CENTS	EA	6.000	44
	496	2005		REMOV STR (WINGWALL) DOLLARS and CENTS	EA	16.000	45
	496	2007		REMOV STR (PIPE) DOLLARS and CENTS	LF	810.000	46
	496	2008		REMOV STR (BOX CULVERT) DOLLARS and CENTS	LF	36.000	47
	500	2001	005	MOBILIZATION DOLLARS and CENTS	LS	1.000	48
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	8.000	49
	506	2003	011	ROCK FILTER DAMS (INSTALL) (TY 3) DOLLARS and CENTS	LF	720.000	50
	506	2009	011	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	720.000	51
	506	2026	011	FRNT END LOADER WORK (ERSN & SEDM CONT) DOLLARS and CENTS	HR	40.000	52
	506	2034	011	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	1,000.000	53

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	ITEM NO	DESC CODE	S.P. NO.				
	529	2010		CONC CURB AND GUTTER (TY II)(REINF) DOLLARS and CENTS	LF	620.000	54
	530	2012		DRIVEWAYS (SURF TREAT) DOLLARS and CENTS	SY	1,960.000	55
	540	2002	023	MTL W-BEAM GD FEN (STEEL POST) DOLLARS and CENTS	LF	625.000	56
	544	2013		GDRAIL END TRT(INSTALL)(HBA POST) DOLLARS and CENTS	EA	10.000	57
	560	2006	001	MAILBOX INSTALL-S (RR-POST) TY 4 FND- TB DOLLARS and CENTS	EA	11.000	58
	644	2001		INS SM RD SN SUP&AM TY 10BWG(1) SA(P) DOLLARS and CENTS	EA	1.000	59
	644	2004		INS SM RD SN SUP&AM TY 10BWG(1) SA(T) DOLLARS and CENTS	EA	3.000	60
	644	2006		INS SM RD SN SUP&AM TY 10BWG(1) SA(U) DOLLARS and CENTS	EA	2.000	61
	644	2053		INS SM RD SN SUP&AM TY TWT(1) WA(P) DOLLARS and CENTS	EA	25.000	62
	644	2054		INS SM RD SN SUP&AM TY TWT(1) WA(T) DOLLARS and CENTS	EA	3.000	63

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	ITEM NO	DESC CODE	S.P. NO.				
	644	2064		INS SM RD SN SUP&AM TY S80(1)SA(U-EXAL) DOLLARS and CENTS	EA	9.000	64
	644	2065		RELOCATE SM RD SN SUP & AM TY TEMP DOLLARS and CENTS	EA	43.000	65
	658	2241		INSTL DEL ASSM (D-SW)SZ 1(FLX)GF2(BI) DOLLARS and CENTS	EA	15.000	66
	658	2334		INSTL OM ASSM (OM-2Z)(RCR)GND DOLLARS and CENTS	EA	9.000	67
	662	2030		WK ZN PAV MRK NON-REMOV (Y) 4" (BRK) DOLLARS and CENTS	LF	1,824.000	68
	662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	3,304.000	69
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	2,153.000	70
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	100.000	71
	666	2048		REFL PAV MRK TY I (W) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	108.000	72
	666	2132		REFL PAV MRK TY I (Y) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	500.000	73

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	668	2106		PREFAB PAV MRK TY C (W) (ARROW) DOLLARS and CENTS	EA	1.000	74
	668	2116		PREFAB PAV MRK TY C (W) (WORD) DOLLARS and CENTS	EA	1.000	75
	672	2012	034	REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	10.000	76
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	452.000	77
	6055	2001		IN-LANE OR TRANSVERSE RUMBLE STRIP DOLLARS and CENTS	LF	80.000	78
	8251	2006	005	RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	41,368.000	79
	8251	2015	005	RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) DOLLARS and CENTS	LF	3,672.000	80
	8251	2018	005	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	25,325.000	81

GENERAL NOTES AND SPECIFICATION DATA

SPECIFICATION DATA

(PERCENT RETAINED-SIEVE)

DESCRIPTION	2 1/2"	1 3/4"	#4	#40	PI MAX	PI MIN
FLEXIBLE BASE (TYPE A, GRADE 4)	0	0-5	45-75	70-85	12	4

1. This material shall be produced from a source which when tested in accordance with test method TEX-117-E, PART 1, shall meet the requirements of class 2.3 material.
2. This material shall be produced from a source which when tested in accordance with test method TEX-116-E, the maximum wet ball mill value shall not exceed 45 and the maximum increase of material passing the No. 40 sieve shall not exceed 20 percent.
3. Job control samples for gradation and P.I. testing will be taken from the windrow after blade mixing.

BASIS OF ESTIMATE

ITEM	DESCRIPTION	RATE	BASIS	QUANTITIES
*166	FERTILIZER (20-10-10)	300.00 LB/AC	36 AC	6 TON
168	VEGETATIVE WATERING (FOR 6 APPLICATIONS)	78.6 MG/AC	18 AC	1,415 MG
310	PRIME COAT (MC-30 OR AE-P)	0.2 GAL/SY	4,725 SY	945 GAL
316	SURFACE TREATMENTS AGGR (TY PD GR 4 OR TY PL GR 4)	1/125 CY/SY	88,000 SY	704 CY
	AGGR (TY PD GR 3 OR TY PL GR 3)	1/125 CY/SY	74,125 SY	593 CY
	AGGR (TY B GR 5 OR TY L GR 5)	1/125 CY/SY	74,125 SY	593 CY
	AGGR (TY D GR 3 OR TY L GR 3)	1/95 CY/SY	5605 SY	59 CY

ASPH (AC-20-5TR)	0.35 GAL/SY	161,760 SY	56,616 GAL
ASPH (CRS-2)	0.60 GAL/SY	5605 SY	3,292 GAL
ASPH (RC-250)	0.22 GAL/SY	74,125 SY	16,310 GAL

* FOR CONTRACTOR’S INFORMATION ONLY

GENERAL NOTES

ITEM 4: SCOPE OF WORK

All new and existing concrete adjacent to the roadway must be free of stains, dirt, tire marks, etc., at the time of final acceptance. These items include but are not limited to bridge rails curb and gutter, inlets and riprap. Blast cleaning of these items will be required to achieve acceptance of the project and will be considered subsidiary to the applicable bid items.

Prior to final acceptance, all new structures and/or structures that have been extended shall be cleaned out by the contractor. This work will not be paid for directly but will be considered subsidiary to the various bid items.

ITEM 5: CONTROL OF THE WORK

All elevations are based on assumed bench mark elevations.

Prior to beginning work in the area of existing utilities, the contractor shall consult with the utility companies for exact locations to prevent any damage or interference with present facilities. This action shall in no way be interpreted as relieving the contractor of his responsibilities, under the terms of the contract and as set out in the plans and specifications. The contractor shall repair any damage caused by his operations, at his own expense and shall restore facilities to service in a timely manner.

ITEM 6: CONTROL OF MATERIALS

References to manufacturer’s trade name or catalog numbers are for the purpose of identification only and the contractor will be permitted to furnish like materials of other manufacturers provided they are of equal quality and comply with specifications for this project and are approved by the Engineer.

ITEM 7: LEGAL RELATIONS AND RESPONSIBILITIES

If utilizing private property for waste disposal sites, field office sites, equipment storage sites or for any other purpose involved with this project, provide to the Engineer written proof of the property owner's approval of the use of this property. This proof may be in the form of a letter or agreement signed by the property owner or other documents acceptable to the Engineer.

County: Bosque**Control:** 0398-01-038**Highway:** FM 56

Where existing pavement adjoins new pavement, saw the existing pavement to a neat transverse and/or longitudinal line to permit adequate joining. This will not be paid for directly, but will be considered subsidiary to the various bid items.

Protect all adjoining pavement sections during all phases of construction. Any damages incurred due to contractors operation shall be repaired and/or replaced at the contractor's expense.

All materials, labor and incidentals required for the contractor to provide for traffic across the highway and for all weather ingress and egress to public and private property in accordance with item 7.7 of the standard specifications shall be considered as incidental to the various bid items. When construction is completed the access roadways will be restored to their original condition, as approved by the Engineer.

Personal vehicles of the contractor's employees shall not be parked within the right-of-way at anytime including any section closed to public traffic, unless the vehicle is being utilized for construction procedures. However the contractor's employees may park on the right-of-way at the sites where the contractor has his office, equipment and materials storage yard.

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 permit review of this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here means materials are 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), which 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 contractor must document and coordinate with the USACE, if required, prior to any excavation hauled from or embankment hauled into a USACE permit area by either (1) or (2) below.

- (1) Restricted Use of Materials for the Previously Evaluated Permit Areas. The Contractor will document both the project specific location (PSL) and their authorization. The contractor will maintain copies for review by the department or

any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project:

- a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110 is used for permanent or temporary fill (Item 132, Embankment) within a USACE permit area;
 - b. Suitable embankment (Item 132) from within the USACE permit area is used as fill within a USACE evaluated area; and,
 - c. Unsuitable excavation or excess excavation ["Waste"] (Item 110) that is disposed of at a location approved by the Engineer within a USACE evaluated area.
- (2) Contractor Materials from Areas Other than Previously Evaluated Areas. The Contractor will provide the department with a copy of all USACE coordination or approval(s) prior to initiating any activities for an area within the project limits that has not been evaluated by the USACE or for any off right of way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites:
- a. Item 132, Embankment, used for temporary or permanent fill within a USACE permit area; and,
 - b. Unsuitable excavation or excess excavation ["Waste"] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

The total area disturbed for this project is 18 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain 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 to the Engineer and to the local government that operates a separate storm sewer system.

Throughout the course of the project, when in the opinion of the Engineer, tall grass and weeds affect the safety of the public by restricting visibility, interfere with normal traffic flow or appear unsightly, the contractor shall be required to mow same. Final cleanup will include mowing of grass and weeds. This work will not be paid for directly but will be considered as subsidiary to the various bid items.

Remove all vegetation from pavement edges, intersections and driveways prior to planing, seal coat or ACP operations. This work will not be paid for directly but will be subsidiary to the various bid items.

The contractor is alerted to the possible presence of swallows under the existing bridges or culverts. Because the migratory bird treaty act prohibits harm to swallows, their eggs or their

nestlings, the contractor shall not begin potentially disturbing activities on or near the bridge until the birds have abandoned any occupied nests (approximately September 1). Active nests may not be removed regardless of the date.

Prior to the swallows returning to the nests (approximately March 1), abandoned nests shall be removed from the bridge. The contractor shall prevent the establishment of new nests on any portion of the structure. Methods for preventing the establishment of new nests must be approved by the project engineer. Examples of acceptable nest prevention methods are bird-deterrent netting and bird-repelling sprays and/or gels to be applied to the structure. This work will not be paid for directly, but will be subsidiary to the various bid items.

General Notes for Work in Waters of the US

1. TxDOT will establish “limits of waters of the United States” to designate stream banks (Ordinary High Water Marks) and wetland boundaries for the project with wood lathing and flagging. These areas have specific Corps of Engineer 404 permit requirements as stated in the following notes.
2. For bridges, the contractor shall provide and maintain orange plastic security fencing (called orange fencing) slightly above the Ordinary High Water Marks, on each side of the stream and from ROW line to ROW line. For culverts, the contractor shall provide and maintain orange fencing slightly above the Ordinary High Water Marks, on each side of the stream on the upstream and downstream culvert ends outside the limits of permanent facilities to the ROW lines. No construction activities or access below the orange fencing shall be allowed, unless approved by TxDOT. The boundaries for wetland areas shall also be established with orange fencing and timber mats must be used to support heavy equipment.
3. The contractor shall submit detailed site specific plans for work in each “water of the United States” designated on the EPIC sheet. These plans must be approved by the TxDOT Engineer prior to starting any work in these areas. The plans must also describe facilities and work activities adjacent the Ordinary High Water Marks. The plan must show actual dimensions and materials for:
 - proposed construction roads and work areas leading to or in close proximity the Ordinary High Water Marks
 - temporary material or equipment storage areas in close proximity to the Ordinary High Water Marks
 - locations of proposed sediment and erosion control devices
 - identification of construction equipment and construction techniques to accomplish the work

Once this drawing and supporting information is reviewed and approved by TxDOT, all construction workers should be made aware of the limits designated on the drawings by the Contractor’s supervision. Work in all waters of the US will be limited to the

minimum necessary required to construct the bridge, culvert or roadway fills. Work shall also include all activities needed for bridge and culvert demolitions. Working or disturbing soil in the stream channel outside the limits of the work plan will not be allowed. Orange fencing shall be provided and maintained to establish the TxDOT approved boundaries in which work may be conducted between the Ordinary High Water Marks.

4. Storm water from disturbed soil areas draining towards wetlands shall either be re-routed or adequate sediment control devices installed to protect the wetland.
5. The Contractor shall select concrete bridge demolition methods that will meet all 404 requirements. Bridge demolition between Ordinary High Water Marks may typically include bridge slabs, girders, columns and foundations. The use of jack hammers or crushing techniques shall be conducted over timber mats wide enough for the downed bridge and for access and use of construction equipment to fully remove the wrecked structure. Concrete structures requiring demolition shall not be fully processed into small pieces between the Ordinary High Water Marks. Large sections of the wrecked concrete structure should be lifted or moved to an upland area for further processing with the processing area using appropriate sediment control devices. Demolitions should be avoided during high stream levels. Efforts shall be made to minimize bridge rubble, including fine concrete materials produced through the demolition process, water from saw cutting activities or soils moved during demolition activities from entering the stream.
6. The construction or demolition of culverts should take place in a manner that does not block the flow in a 404 stream. Removal or demolition of bridge class culverts should be accomplished similar to bridge demolitions, but timber mats are not required. Efforts shall be made to minimize culvert rubble, including fine concrete materials produced through the demolition process, concrete saw cutting water or soils moved during demolition activities from entering the stream. Minimal stream channel disturbance should occur both upstream and downstream of culverts between the Ordinary High Water Marks.
7. No excavated material, including spoils from drill shafts shall be deposited within the Ordinary High Water Marks at any time. Excavated material shall be immediately hauled to an approved temporary upland material storage area on TxDOT ROW. Excess material shall be hauled from the project site or spread above the stream bank limits as directed by the TxDOT Engineer. Adequate stabilization and sediment control devices shall be provided for soil materials spread and graded above the stream bank limits on TxDOT ROW.
8. No equipment or chemicals shall be stored overnight within waters of the US (between the Ordinary High Water Marks). Special care shall be taken to contain all sanitary waste, petroleum products or chemicals from leaking or entering the stream. The

Contractor shall make provisions to collect all construction related trash and debris each work day and to provide adequate containers for storage and removal.

9. Upon completion of work, all excess construction materials, construction debris, timber mats, shall be carefully removed from between the Ordinary High Water Marks of the stream while minimizing additional earth disturbance, protecting existing aquatic vegetation and limiting stream turbidity. Timber mats, located below the Ordinary High Water Marks shall be carefully removed by construction equipment located above the Ordinary High Water Marks. Stream shaping below the Ordinary High Water Marks, after removal of timber mats or other construction activities shall only be conducted when directed by TxDOT.
10. Adequate sediment and erosion control devices shall be installed to preclude sediment from entering the stream and to the requirements of the storm water permit. Continuous silt fences with angled end sections and / or rock filter dams shall be installed along the entire length of disturbed soils, slightly above and parallel the High Water Marks of the stream and upslope of orange fencing specified in Item 2. No rock filter dams or other controls shall be installed across 404 streams below the Ordinary High Water Marks for either bridge or culvert installations. Large diameter compost logs shall typically be used on the boundaries of timber mats located between the Ordinary High Water Marks. Vegetation shall be established as soon as possible, beginning immediately when areas are brought to the proper lines and grades. Soil retention blankets and channel liners are encouraged to minimize erosion and promote vegetation development.
11. During any construction or demolition operations, soil shall never be pushed from the high bank into the stream channel below the Ordinary High Water Marks. Soil may be removed and shaped as necessary along the stream bank slopes above the Ordinary High Water Marks to facilitate construction with excess material being moved to high ground.
12. Trees removed between the Ordinary High Water Marks shall be saw cut. No mobile construction equipment shall be used to remove vegetation between the Ordinary High Water Marks. Trees will be cut flush with the ground level and pulled above the Ordinary High Water Marks for further processing. Only trees designated by the TxDOT Engineer shall be removed. No chemicals or stump grinding shall be used between the Ordinary High Water Marks. Follow all local ordinances when burning cleared trees or brush.
13. No water shall be pumped from any water of the US without a permit from the appropriate River Authority or the Texas Commission on Environmental Quality. Upland stock tanks are exempt from this requirement.
14. Temporary construction roads or ramps, if approved by the Engineer, shall be constructed of material that will not erode and transport fine grain sediment downstream under high flows. Acceptable earthwork materials shall be rock material of 4" to 6" inch diameter.

The use of rock and inert materials such as structural steel sections, wood mats, concrete mats, filter fabrics and concrete barriers shall be acceptable to build roads and ramps. Fills consisting of clay, sands or other fine grain materials shall not be used between the Ordinary High Water Marks. Loose earth materials generated by excavation between the Ordinary High Water Marks shall be re-compacted or moved to a high bank area before the end of each day. Temporary construction roads and ramps shall be removed as soon as possible and the stream channel returned to a near original condition. Earth materials (clays and sand) that fall from construction equipment onto roads or ramps, between the Ordinary High Water Marks, shall be cleaned and removed daily.

15. To facilitate culvert or bridge construction work, low stream flows may be temporarily pumped or routed around construction activities. Stream flow should not be stopped. To facilitate pumping or routing of low flows, whatever sumps or obstructions used to control the stream flow shall not be constructed of fine grained clays or sands.

ITEM 8: PROSECUTIONS AND PROGRESS

For this project Five-Day Workweek Charges will be charged in accordance with Section 8.3.A.1, "Five-Day Workweek".

Prior to contract letting, the conceptual construction schedule as developed for the contract time determination will be made available by the state at the Area Engineers' office for prospective bidders review. The schedule will be in hard copy form and made available for copying by the contractor. This supplied schedule is for informational purposes only. It is the responsibility of the prospective bidder to determine a construction schedule for the work in this contract.

In addition to the requirements in Special Provisions to Item 8, construction schedules provided by the Contractor shall include line items required to maintain compliance with the storm water permit. Those line items shall include, but not be limited to installing / removing storm water sediment controls, installing soil retention blankets/channel liners, top soil / compost placement, seeding (temporary and permanent), and placement of permanent erosion controls, earthwork and grading.

The contractor will be expected to schedule this work so that the base placement operations will follow the subgrade work as closely as practical in order to reduce the hazard to the traveling public and prevent undue delay from wet weather.

Do not begin work on the roadway until 30 minutes after sunrise and all equipment and personnel shall be off the road and lanes opened to traffic by 30 minutes before sunset when utilizing temporary lane closures.

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

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For all subcontracts, physically attach all provisions listed in the “Contractor’s Assurance” to the subcontract agreement. Provide a copy of subcontracts, with attachments, for all DBE Subcontractors. Submit the subcontracts to the Engineer when submitting the subcontract approval request.

ITEM 100: PREPARING RIGHT OF WAY

The removal of trees and vegetation shall be subsidiary to ITEM 100. Preserve all trees designated by the Engineer.

All trees and brush removed each day shall be disposed of within the same day of removal unless otherwise approved by the Engineer. If removed vegetation is burned, ashes from burned vegetation shall not be placed or allowed to be transported by storm water into any stream. Burn locations, if approved, shall be no closer than 300 feet from a stream. Earth berms shall be used around burn areas to keep ash in place.

ITEMS 110 & 132: EXCAVATION & EMBANKMENT

Proof Roll the completed subgrade to locate unstable areas. Proof rolling shall be in accordance with Item 216 “Proof Rolling”.

In those cases where fixed features require, the governing slopes indicated herein and on the cross sections may be varied between the limits and to the extent determined by the Engineer.

When excavation is required to adjust stream flow lines at culvert ends, flatten the side slopes of channels and the back slopes of parallel ditches to the maximum extent possible within the existing right of way and channel easements.

ITEM 152: ROAD GRADER WORK

To construct the subgrade and slopes as shown on the typical sections, the haul of extra embankment material up to 0.5 mile may be necessary. The loading and haul of this material is subsidiary to item 152. When approved by the Engineer, the loading and transporting of embankment farther than 0.5 mile or from off of the project will be paid for under item 132.

The limits of blading and grading operations shall be to the minimum width and length necessary to accomplish the required work. The Contractor shall limit the removal of permanent grass that is already established at the proper lines and grades.

ITEM 164: SEEDING FOR EROSION CONTROL

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

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work progresses and should be scheduled in sequence with completion of base course installation along the length of the road project.

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.

Temporary seeding mixtures (cool and warm) shall also include 3 lbs of Bermuda grass seed per acre, with all seeds being planted concurrently.

Temporary cool seed mixtures shall be as stated in the specification or at the option of TxDOT a direct substitution of 30 lbs per acre of Dwarf Annual Ryegrass (Axcella 2 Variety) including the 3 lbs of Bermuda grass seed shall be planted.

ITEM 166: FERTILIZER

Fertilizer shall be used for permanent and temporary seeding.

ITEM 168: VEGETATIVE WATERING

Watering between December 1st and February 1st can begin on seeded areas upon planting and before a natural rainfall. During other planting periods, unless approved by TxDOT, vegetation watering by means of water trucks shall not be started on newly planted seeds until a natural rain of ½ inch has occurred after planting.

ITEM 247: FLEXIBLE BASE

After the existing pavement is scarified and spread evenly over the proposed subgrade, incorporate additional flexible base into the scarified material. Spread the resulting mixture and compact to the required density as required for ITEM 247 and to the lines and grades set forth in the plans and as directed by the Engineer.

Place the material in approximately equal courses not to exceed 6 inches in depth per course. During mixing and laying operations, sufficient water shall be added to the material to insure that the moisture content is not less than optimum moisture as determined by test method TEX-113-E.

Recycled asphalt pavement (RAP) or crushed concrete generated on this project will be allowed to be blended in the flexbase. Do not exceed 20% RAP or crushed concrete by weight. If contractor elects to utilize these materials as part of the flexbase mixture, payment will be made for the total quantity of RAP/Recycled concrete/flexbase mixture.

ITEM 251: REWORKING BASE COURSES

Some patches of cement or stabilized base may be encountered while reconditioning the existing base. If such material is encountered, it will be removed and disposed of as directed by the Engineer. This work will not be paid for directly but will be subsidiary to Item 251.

ITEM 276: CEMENT TREATMENT (PLANT-MIXED)

Wet construction joints between new base and base previously placed and coat with dry cement prior to the addition of new base.

Strength class required for this material will be Class M.

Cure the cement treated material with an application of an inverted prime(RC-250 and Ty B Gr 5 or Ty L Gr 5) as directed by the engineer. The application of this material will be paid for with the applicable bid items.

The final surface shall not be placed until the inverted prime has cured for 90 days at a temperature equal to or higher than 70 degrees Fahrenheit, or as directed by the Engineer.

ITEM 300: ASPHALTS, OILS & EMULSIONS

AC-20-5TR material shall meet ASTM TEST-D-5546 with minimum solubility of 98%

ITEM 302: AGGREGATES FOR SURFACE TREATMENTS

The pre-coated aggregate target value for residual bitumen shall be determined by the Engineer. This value shall be in the range of 0.5 to 1.5 % by weight of residual bitumen from a pre-coating material.

ITEMS 310 & 316: PRIME COAT & SURFACE TREATMENTS

No asphalt treatments shall be applied just prior to a rain event that could result in chemical asphalt or any asphalt by-product pollutant being washed into a stream.

The Contractor may request approval from TxDOT to clean equipment located on TxDOT ROW which is engaged in asphalt work such as trucks, lay down machines, and distributors. TxDOT may allow cleaning of asphalt equipment on TxDOT ROW only when all of the following conditions are met on a continuous basis: 1. Cleanup activities must take place no closer than 300 feet from an off ROW drainage discharge. 2. No diesel or fuel is used for cleaning. 3. The names of all cleaning agents have been previously submitted to TxDOT and the Contractor has submitted both a spill prevention and cleanup plan for the cleaning chemicals being used. 4. All excess cleaning liquid must be captured on plastic or tarps and disposed of properly off ROW. 5. Excess asphaltic products originally planned to be used for road construction but deposited along

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the roadway edge due to having too much material, or due to equipment start/stops and minor equipment upsets shall be properly removed off ROW or to a location approved by TxDOT within 48 hours.

ITEM 310: PRIME COAT

When cutback asphalt is used, a minimum curing time of 7 days shall be required before application of item 316 unless otherwise authorized or directed by the Engineer in writing.

ITEM 316: SURFACE TREATMENTS

No asphalt for surface treatment items will be placed between October 1 and May 1 for AC unless approved by the Engineer in writing.

No asphalt for surface treatment items will be placed between October 1 and April 1 for emulsions unless approved by the Engineer in writing.

All trucks hauling materials to be paid for by truck measurement shall be "struck off" prior to delivery to the project.

Protect all existing bridges, curbs, and other exposed concrete surfaces within the limits of these projects as much as practicable from asphalt materials by any method that is acceptable by the Engineer. Remove any excessive asphalt materials deposited on these surfaces in a manner approved by the Engineer at the contractor's expense.

During application of the surface treatment, if existing conditions warrant, the lane widths, transitions, and intersection areas may be varied as directed by the Engineer.

Use a medium pneumatic roller meeting the requirements of Item 210 as directed by the Engineer. This work will be subsidiary to the various bid items.

Remove dirt and debris that has accumulated in the curb and gutter sections prior to beginning paving. Likewise, remove all vegetation from pavement edges prior to seal coat operations. This work will be subsidiary to other items.

The final surface shall not be placed until the inverted prime has cured for 90 days at a temperature equal to or higher than 70 degrees Fahrenheit, or as directed by the Engineer.

ITEM 400: EXCAVATION AND BACKFILL FOR STRUCTURES

Aggregate for cement stabilized backfill shall be GRADE 3, 4 or 5 coarse aggregate shown in ITEM 421, "HYDRAULIC CEMENT CONCRETE".

CLASS B bedding is required if rock is encountered.

ITEM 420: CONCRETE STRUCTURES

Reduce headwall heights, if necessary, to provide a maximum of 3 inches projection above the roadway slope. No increase or decrease will be made in plan quantities of concrete or reinforcing steel for this work.

All construction products used to construct concrete structures and bridges including but not limited to plastics, Styrofoam, grease, glues, caulking, adhesives, solvents, paints, cleaning agents and rubber shall be handled in a manner that the construction products or empty containers/tubes shall not be allowed into any stream. Construction debris developed from the cutting, grinding or sizing of solid construction products including plastics and Styrofoam shall not be allowed on the ground or to blow into a stream.

Concrete curing compounds shall not be applied in a manner that the chemical will be spilled, dripped or be discharged into streams. Containers and rags used during application of curing compound shall be properly disposed of off project. Do not store curing compound containers and drums on TxDOT ROW.

ITEM 421: HYDRAULIC CEMENT CONCRETE

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

The Engineer will provide compressive strength testing equipment

ITEM 427: SURFACE FINISHES FOR CONCRETE

Provide all culverts with a Surface Area II, rub finish.

ITEM 432: RIPRAP

Blast clean all concrete curb, curb and gutter and riprap in accordance with Item 427 as part of the final clean-up and acceptance process. Other methods may be approved to obtain a uniform clean appearance, free of marks, stains, etc., at the time of final acceptance.

Locations and quantities may be varied as directed by the Engineer to accommodate field conditions.

The sodium sulfate soundness requirement for material used in rock riprap is waived for this project.

County: Bosque**Control:** 0398-01-038**Highway:** FM 56**ITEM 462: CONCRETE BOX CULVERTS AND STORM DRAINS**

Joints between pre-cast concrete box culverts shall be pre-formed flexible joint sealants as described in Item 464.3C, "Jointing".

Reshape embankment side slopes, provide embankment as required, and add topsoil to achieve a smooth uniform finish around the installation of the safety end treatments and culvert extensions as directed by the Engineer. Finishing and reshaping work will be subsidiary to Items 132, 162 and 467.

ITEM 464: REINFORCED CONCRETE PIPE

Install all reinforced concrete pipe on this project using pre-formed flexible joint sealant.

ITEM 467 SAFETY END TREATMENT

Welds are not allowed to splice Safety Pipe Runners. A Safety Pipe Runner shall be one continuous pipe.

ITEM 496: REMOVING STRUCTURES

All pipe culverts removed under this contract shall become the property of the contractor to be disposed of off the right of way unless otherwise directed by Engineer.

The Contractor shall make every attempt to prevent debris and rubble from falling into the stream during the removal of the bridge. If any debris or rubble should fall into the stream it shall be removed as soon as possible.

ITEM 502: BARRICADES, SIGNS AND TRAFFIC HANDLING

A meeting between the contractor and Engineer to discuss upcoming changes in construction phasing and traffic switches is required at least 14 days prior to the phase change. Items to be discussed at this meeting include temporary signing, traffic control, pavement markings, the processes necessary for the phase change and subcontractor scheduling.

Schedule and execute the work such that the portion of the roadway not sealed and striped at any given time is kept to a minimum and is no more than 2 miles.

When a culvert extension, inlet construction and/or safety end treatment and open excavation, etc. is within 30 feet of a travel lane then delineate these areas as shown on the BC standard sheets. In addition a 4 foot high plastic construction fence shall be required at or around any structure or obstruction that would be a hazard to pedestrians unless otherwise approved by the Engineer. This fence shall be erected in a manner acceptable to the Engineer. Construction fencing will not be paid for separately, but will be considered subsidiary to Item 502.

The Contractor Responsible Person (CRP) shall inspect and insure any deficiencies are corrected each and every day through out the duration of this contract. Any misaligned or damaged traffic control devices shall be repaired as soon as practical after deficiency is discovered.

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

The **shadow vehicle** with truck mounted attenuator (TMA) will not be optional but will be required as shown on the appropriate traffic control plan sheets. Truck mounted attenuators shall meet the requirements of the Compliant Work Zone Traffic Control Device List. The use of truck mounted attenuators shall not be paid for directly, but shall be considered subsidiary to Item 502.

Open the pavement to traffic each night. Remove all material stockpiles, equipment left overnight or any obstruction within 30 feet of a travel way or clearly mark by warning lights and barricades, as approved by the Engineer.

Unless otherwise shown on plans, where there is excavation adjacent to the pavement edge, provide adequate warning signs, vertical panels, drums and reflectors at the pavement edge, as directed by the Engineer. Treat pavement drop-offs created by ACP operations in a similar manner and in accordance with the details shown in the plans.

When excavation is required next to a travel lane carrying traffic and widening is not completed by the end of the day's operation, and unless otherwise permitted in the plans, place sufficient backfill against the edge of the travel lane in order to provide a 3:1 slope. The backfill used shall be durable crushed stone type of flexible base or other materials approved by the Engineer. When work is resumed on this excavated area this backfill material shall be incorporated into the road work or disposed of as approved by the Engineer. Materials and labor for this work will not be paid for directly but will be subsidiary to the various bid items.

Provide a pilot vehicle for this contract.

Do not perform base widening on both sides of the roadway simultaneously.

The maximum allowable length of roadway sections for scarifying and reshaping the existing base and hauling base material, shall be 2 miles. Station competent flaggers at each end of the section being processed to instruct and/or direct the traveling public.

Equip all construction equipment involved in roadway work with a permanently mounted warning light with amber lens as approved by the Engineer.

ITEM 506: TEMPORARY EROSION, SEDIMENTATION AND ENVIRONMENTAL CONTROLS

No soil disturbing activities shall begin on any section of TxDOT ROW without adequate sedimentation controls first being installed and functioning at adjacent drainage outfalls. Begin and continuously prosecute the repairs, additions and maintenance of erosion and sedimentation control devices within seven days after the Contractor receives each Form 2118, Field Inspection and Maintenance Report, from the Engineer. Failure of the Contractor to fulfill either of the above requirements places TxDOT in potential non-compliance with permit requirements and may result in withholding estimates or stopping work or both until all environmental permit requirements are fulfilled.

Furnish one SW3P permit posting sign and sign support as detailed in the plans. Install this sign in a location selected by the Engineer. The sign and support should be removed upon completion of the project and is the property of the Contractor. The purchase of the sign and support, installation, relocation(s) if determined necessary by the Engineer and removal at project end shall be subsidiary to Item 506.

ITEM 540: METAL BEAM GUARD FENCE

In the event a guard post falls on top of an inlet, cut the post to the proper length and bolt it to the inlet top as shown on the plans.

The block-outs used on the Metal Beam Guard Fence will be made of a composite material from a source on the Department approved list of suppliers. The use of wooden block-outs will not be allowed.

ITEM 544: GUARDRAIL END TREATMENTS

The block-outs used on the Single Guardrail Terminals will be made of a composite material from a source on the Department approved list of suppliers. The use of wooden block-outs will not be allowed.

ITEM 560: MAILBOX ASSEMBLIES

Mail boxes will be kept in a position accessible to the carrier's vehicle along the travel way except when performance of grading operations necessitates the moving of mail boxes. When grading operations necessitate the moving of mail boxes, the contractor shall place them at a nearby location which will be accessible to the carrier's vehicle. Mail boxes will be returned to a position accessible to the carrier's vehicle along the travel way when grading operations are not in progress. This work will not be paid for directly, but will be subsidiary to Item 560.

County: Bosque**Control:** 0398-01-038**Highway:** FM 56**ITEM 644: SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES**

Measure all dimensions in the field at the actual locations.

Place signs in accordance with lateral and vertical clearances as shown in Sign Mounting Details for Small Roadside Signs and in the Sign Crew Field Book.

Sign placement heights are a minimum of seven (7) feet and a maximum of seven feet six inches (7ft.-6in.) to the bottom of the sign or plaque. Mounting heights are measured as follows:

1. When the base of the sign is below the edge of the travel lane, the sign height is measured from the edge of the travel lane to the bottom of the sign.
2. When the base of the sign is above the edge of the travel lane, the sign height is measured from natural ground to the bottom of the sign.
3. When a supplemental plaque or secondary sign is used, the sign height is measured to the bottom of the supplemental plaque or secondary sign.
4. When a sign has two or more posts, all posts must be a minimum height above natural ground to the bottom of the sign. The sign also must be a minimum height above the edge of the travel lane.

Leave the existing sign assemblies in place until the proposed foundation, post and sign are in installed, and then remove the old sign assemblies.

Do not leave any sign foundation holes open overnight. Ensure all holes drilled are at least the minimum required depth with no loose material remaining in the hole.

Stake proposed sign locations and receive approval before installation of sign foundations. Determine each post length after the stub has been placed.

For sign assemblies using the "TEXAS UNIVERSAL TRIANGULAR SLIPBASE SYSTEM MOUNTS" furnish and install a #4 rebar at least 7 inches long through the 3/4-inch diameter hole in the stub to prevent the stub from rotating in the foundation as detailed on the Sign Mounting Details for Small Roadside Signs.

Furnish and install a 5/16-inch x 1 1/2-inch double roll pin between the slip base casting and the sign support post to prevent the sign assembly from rotating on the stub as detailed on the Sign Mounting Details for Small Roadside Signs.

Concrete for sign foundations is designated as "MISCELLANEOUS CONCRETE". It will be accepted based on a minimum 7-day flexural strength of 280 PSI. The slump is to be no greater than 4 inches.

Use trowel to finish all foundations for a neat appearance. Remove all excess material.

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Expanded foam foundations are not permitted.

Tighten the slip base and the locking collar as shown on standard Sign Mounting Details for Small Signs. Do not tighten bolts greater than 80 foot pounds except to clean threads. Over-torque bolts to clean the threads of any galvanization that might cause an incorrect torque reading. Then loosen the nuts and tighten to the required torque of 80 foot pounds. Tighten bolts incrementally in a sequential manner such that the load is applied uniformly to the locking collar.

For splices in small signs, use bolts as shown on details A and B on the Sign Mounting Details for Small Roadside Signs.

Cut the bottom of all posts level.

For sign types which design details are not shown on these plans, fabricate according to the "STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS".

Removed material that is deemed salvageable (signs and posts) will be the property of TxDOT. Deliver salvageable material to the TxDOT Maintenance Office. Remove unsalvageable material.

Existing signs remain in place until the proposed sign post assembly is completed and ready for sign installation.

Maintain existing roadside signs within this project's limits during this contract. In order to accommodate the grading or other operations, relocate these signs and assemblies onto temporary supports in accordance with the TMUTCD and as directed by the Engineer. This work will be paid for as "Relocate Small Roadside Sign Supports and Assemblies". Moving the temporary supports for accommodating work and relocating for subsequent phases will not be paid for directly. The existing sign assemblies requiring relocation to a temporary support must be approved by the Engineer.

ITEM 658: DELINEATOR AND OBJECT MARKER ASSEMBLIES

The delineator assembly type C Class A (D-SW) and (D-SY) are to be single delineators (Class I) attached to a flat, plastic bracket to facilitate the mounting of the delineator on top of the bridge rail at the locations shown on the plans. Submit a sample for approval before ordering materials.

For all delineators and object markers, furnish a tubular post minimum of 2 inches diameter with a flat surface at least 3 inches wide and 15 inches long for delineator mounting meeting the requirements of DMS-4400. Use the Wedge Anchor Plastic System for ground mounted delineators set in concrete as shown on the D&OM(1)-10 standard. Submit one assembly or a material cut sheet to the Engineer for approval prior to installation.

County: Bosque**Control:** 0398-01-038**Highway:** FM 56**ITEM 662: WORK ZONE PAVEMENT MARKINGS**

Paint and beads may be used for non-removable pavement markings.

ITEM 666 & ITEM 8251: REFLECTORIZED PAVEMENT MARKINGS

Apply beads using a single drop application process. Use an application rate of 12 pounds per 100 square feet of thermoplastic pavement marking material.

The Engineer will verify the beginning and ending points of No Pass Zones.

Before the application of pavement markings, sufficiently clean pavement surfaces to remove all forms of contamination and loose materials, in accordance with Item 678, "Pavement Surface Preparation for Markings". This work will not be paid for directly, but will be subsidiary to Item 666, "Reflectorized Pavement Markings".

Make all stop lines twenty-four (24) inches wide.

Remove markings at own expense that are not in alignment or sequence, as shown on the standard sheets or as stated in the specifications, or do not meet the specification and/or approval of the Project Manager. Removal shall be in accordance with Item 677, "Eliminating Existing Pavement Markings and Markers", except for measurement and payment.

ITEM 668: PREFABRICATED PAVEMENT MARKINGS

Use Type C prefabricated pavement markings (TxDOT Spec DMS-8240) for all Word, Arrow and RR Crossing markings.

ITEM 672: RAISED PAVEMENT MARKINGS

Place TYPE II-C-R and TYPE I-C markers for lane lines on 80 feet centers regardless of the conditions listed on the Pavement Markings Standard Details.

Before the application of pavement markers, sufficiently clean pavement surfaces to remove all forms of contamination and loose materials, in accordance with Item 678, "Pavement Surface Preparation for Markings". This work will not be paid for directly, but will be subsidiary to Item 672, "Raised Pavement Markers".

Remove at own expense markings placed that are not in alignment or sequence, as shown on the standard sheets or as stated in the specifications, or do not meet the specification and/or approval of the Project Manager. Removal shall be in accordance with Item 677, "Eliminating Existing Pavement Markings and Markers", except for measurement and payment.

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Mount all raised pavement markers placed on concrete surfaces using an epoxy adhesive, in accordance with article 672.3.

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COUNTY : BOSQUE

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 JUNE 1, 2004.
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 132 EMBANKMENT (100)(204)(210)(216)(400)
ITEM 152 ROAD GRADER WORK (110)(132)(150)
ITEM 164 SEEDING FOR EROSION CONTROL (162)(166)(168)
ITEM 168 VEGETATIVE WATERING
ITEM 216 PROOF ROLLING (210)
ITEM 247 FLEXIBLE BASE (105)(204)(210)(216)(520)
ITEM 251 REWORKING BASE COURSES (210)(216)(247)(520)
ITEM 276 CEMENT TREATMENT (PLANT-MIXED) (204)(210)(216)(247)(300)
(310)(520)
ITEM 310 PRIME COAT (300)(316)
ITEM 316 SURFACE TREATMENTS (210)(300)(302)(520)
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132)(401)(420)
(421)
ITEM 402 TRENCH EXCAVATION PROTECTION
ITEM 403 TEMPORARY SPECIAL SHORING (423)
ITEM 432 RIPRAP (247)(420)(421)(427)(431)(440)
ITEM 462 CONCRETE BOX CULVERTS AND STORM DRAINS (400)(420)(421)
(424)(440)(464)(476)
ITEM 464 REINFORCED CONCRETE PIPE (400)(476)
ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(430)(440)(464)
ITEM 467 SAFETY END TREATMENT (400)(420)(421)(430)(432)(440)(445)
(460)(464)
ITEM 496 REMOVING STRUCTURES (430)
ITEM 500 MOBILIZATION
ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL
CONTROLS (432)(556)
ITEM 529 CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER (360)

(420)(421)(440)

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)(445)(529)(542)(544)

ITEM 544 GUARDRAIL END TREATMENTS

ITEM 560 MAILBOX ASSEMBLIES

ITEM 644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (421)(440)
(441)(442)(445)(634)(636)(643)(656)

ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)

ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(668)(672)(677)

ITEM 666 REFLECTORIZED PAVEMENT MARKINGS (316)(318)(662)(677)(678)

ITEM 668 PREFABRICATED PAVEMENT MARKINGS

ITEM 672 RAISED PAVEMENT MARKERS

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE
----- PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED
HEREON WHEREVER IN CONFLICT THEREWITH.

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS
(FORM FHWA 1273, MARCH, 1994)

WAGE RATES

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--1493)

SPECIAL PROVISION "NOTICE OF CHANGES TO U.S. DEPARTMENT OF LABOR
REQUIRED PAYROLL INFORMATION" (000--1483)

SPECIAL PROVISION "PARTNERING" (000--002)

SPECIAL PROVISION "NOTICE TO ALL BIDDERS" (000--003)

SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000--004)

SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL-AID
CONSTRUCTION" (000--461)

SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
CONSTRUCTION CONTRACT SPECIFICATIONS" (000--006)

SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000--1676)

SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"
(000--009)

SPECIAL PROVISION "DEPARTMENT DIVISION MAILING AND PHYSICAL ADDRESS"
(000--011)

SPECIAL PROVISION TO ITEM 1 (001--011)

SPECIAL PROVISION TO ITEM 2 (002--017)

SPECIAL PROVISION TO ITEM 3 (003--033)

SPECIAL PROVISION TO ITEM 4 (004--017)

SPECIAL PROVISION TO ITEM 5 (005--004)

SPECIAL PROVISION TO ITEM 6 (006--030)

SPECIAL PROVISIONS TO ITEM 7 (007--213)(007--445)

SPECIAL PROVISIONS TO ITEM 8 (008--007)(008--119)

SPECIAL PROVISIONS TO ITEM 9 (009--009)(009--015)

SPECIAL PROVISION TO ITEM 100 (100--002)

SPECIAL PROVISION TO ITEM 164 (164--002)

SPECIAL PROVISION TO ITEM 166 (166--001)

SPECIAL PROVISION TO ITEM 247 (247--039)

SPECIAL PROVISION TO ITEM 260 (260--002)

SPECIAL PROVISION TO ITEM 276 (276--001)

SPECIAL PROVISION TO ITEM 300 (300---032)
 SPECIAL PROVISION TO ITEM 302 (302---010)
 SPECIAL PROVISION TO ITEM 316 (316---016)
 SPECIAL PROVISION TO ITEM 330 (330---001)
 SPECIAL PROVISION TO ITEM 340 (340---003)
 SPECIAL PROVISION TO ITEM 360 (360---003)
 SPECIAL PROVISION TO ITEM 420 (420---002)
 SPECIAL PROVISION TO ITEM 421 (421---035)
 SPECIAL PROVISION TO ITEM 424 (424---002)
 SPECIAL PROVISION TO ITEM 431 (431---001)
 SPECIAL PROVISION TO ITEM 440 (440---002)
 SPECIAL PROVISION TO ITEM 441 (441---006)
 SPECIAL PROVISION TO ITEM 442 (442---016)
 SPECIAL PROVISION TO ITEM 464 (464---003)
 SPECIAL PROVISION TO ITEM 500 (500---005)
 SPECIAL PROVISION TO ITEM 502 (502---033)
 SPECIAL PROVISION TO ITEM 506 (506---011)
 SPECIAL PROVISION TO ITEM 540 (540---023)
 SPECIAL PROVISION TO ITEM 560 (560---001)
 SPECIAL PROVISION TO ITEM 636 (636---014)
 SPECIAL PROVISION TO ITEM 643 (643---001)
 SPECIAL PROVISION TO ITEM 672 (672---034)
 SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 8251 (8251--005)

SPECIAL SPECIFICATIONS:

 ITEM 6055 IN-LANE OR TRANSVERSE RUMBLE STRIPS
 ITEM 8094 MOBILE RETROREFLECTIVITY DATA COLLECTION FOR PAVEMENT
 MARKINGS
 ITEM 8251 REFLECTORIZED PAVEMENT MARKINGS WITH RETROREFLECTIVE
 REQUIREMENTS (316)(318)(502)(677)(678)(8094)

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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