

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 2

**DATED 8/02/2013**

<b>Control</b>	<b>0081-03-051, ETC.</b>
<b>Project</b>	<b>BR 2013(177)</b>
<b>Highway</b>	<b>US 377</b>
<b>County</b>	<b>DENTON</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: BR 2013(177)

CONTROL: 0081-03-051

COUNTY: DENTON

LETTING: 08/06/2013

REFERENCE NO: 0802

**PROPOSAL ADDENDUMS**

-----

\_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 2-9 THRU 9-9 )

X GENERAL NOTES (SH. NO.: B, I )

X SPEC LIST (SH. NO.: 3-3 )

X SPECIAL PROVISIONS:

ADDED: 442---016

DELETED:

\_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: SEE CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS: SHEET 2-9 - REVISED QUANTITY FOR ITEM 416-2004.  
SHEET 3-9 - REVISED QUANTITY AND SP NUMBER FOR ITEM 442-2041.  
DELETED ITEM 496-2060.  
SHEET 8-9 - REVISED QUANTITY FOR ITEM 3267-2011.  
SHEETS 3-9 THRU 9-9 - REVISED DUE TO SHIFTING.

GENERAL NOTES: SHEET B - REVISED TABLE 2.  
SHEET I - REVISED FIRST PARAGRAPH OF ITEM 446.

SPEC LIST: SHEET 3-3 - ADDED SP (442---016).

PLAN SHEETS: SHEETS 2, 9, 9D, 10, 10A, 11, 86 REVISED.  
SHEET 62A - ADDED.  
SHEETS 62, 108 REPLACED.  
ALL REVISED, ADDED AND REPLACED SHEETS ARE DUE TO ABOVE  
CHANGES.

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	39.000	1
	104	2009		REMOVING CONC (RIPRAP)  DOLLARS and CENTS	SY	1,308.000	2
	104	2021		REMOVING CONC (CURB)  DOLLARS and CENTS	LF	144.000	3
	105	2037		REMOVING STAB BASE AND ASPH PAV(0"- 16")  DOLLARS and CENTS	SY	2,562.000	4
	110	2001		EXCAVATION (ROADWAY)  DOLLARS and CENTS	CY	1,488.000	5
	132	2025		EMBANKMENT (FINAL) (DENS CONT) (TY C1)  DOLLARS and CENTS	CY	5,014.000	6
	132	2026		EMBANKMENT (FINAL) (DENS CONT) (TY C2)  DOLLARS and CENTS	CY	1,247.000	7
	161	2002	006	COMPOST MANUF TOPSOIL (BOS) (4")  DOLLARS and CENTS	SY	3,633.080	8
	162	2002		BLOCK SODDING  DOLLARS and CENTS	SY	3,633.080	9
	168	2001		VEGETATIVE WATERING  DOLLARS and CENTS	MG	784.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	247	2402	033	FL BS(CMP IN PLC)(TY D GR 2)(10") DOLLARS and CENTS	SY	1,791.000	11
	310	2005		PRIME COAT (MC-30 OR AE-P) DOLLARS and CENTS	GAL	1,778.000	12
	354	2010		PLAN & TEXT ASPH CONC PAV(0" TO 6") DOLLARS and CENTS	SY	6,231.000	13
	403	2001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	4,008.000	14
	416	2004		DRILL SHAFT (36 IN) DOLLARS and CENTS	LF	2,048.000	15
	420	2042	002	CL C CONC (BENT)(HPC) DOLLARS and CENTS	CY	158.600	16
	420	2256	002	CL S CONC(APPR SLAB)(HPC) DOLLARS and CENTS	CY	362.800	17
	422	2003		REINF CONC SLAB (HPC)(CL S) DOLLARS and CENTS	SF	14,582.000	18
	422	2005		REINF CONC SLAB (LIGHTWEIGHT) DOLLARS and CENTS	SF	10,929.000	19
	425	2064	001	PRESTR CONC GIRDER (TX28) DOLLARS and CENTS	LF	1,842.260	20
	430	2126		CL C CONC FOR EXT STR(ABUT)(HPC) DOLLARS and CENTS	CY	118.300	21

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	432	2002		RIPRAP (CONC)(5 IN)  DOLLARS and CENTS	CY	787.820	22
	442	2041	016	STR STL (DIAPHRAGMS & STIFFENERS)  DOLLARS and CENTS	LB	22,242.000	23
	446	2002		CLEAN & PAINT EXIST STR (SYSTEM II)  DOLLARS and CENTS	LS	1.000	24
	450	2157	001	RAIL (TY T221)(HPC)  DOLLARS and CENTS	LF	1,034.300	25
	452	2003		REMOV RAIL (CONC POST & MTL ELE- MENTS)  DOLLARS and CENTS	LF	932.000	26
	454	2001	003	SEALED EXPANSION JOINT (4 IN)(SEJ-A)  DOLLARS and CENTS	LF	338.000	27
	496	2013		REMOV STR (BRIDGE SLAB)  DOLLARS and CENTS	EA	3.000	28
	496	2025		REMOV STR (APPROACH SLAB)  DOLLARS and CENTS	EA	6.000	29
	500	2001	011	MOBILIZATION  DOLLARS and CENTS	LS	1.000	30
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING  DOLLARS and CENTS	MO	8.000	31

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	512	2048	002	PORT CTB (FUR & INST)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	2,550.000	32
	512	2050	002	PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	3,210.000	33
	512	2052	002	PORT CTB (REMOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	2,550.000	34
	540	2002	031	MTL W-BEAM GD FEN (STEEL POST) DOLLARS and CENTS	LF	2,852.000	35
	540	2011	031	MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	12.000	36
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	1,851.000	37
	542	2003		RM MTL BM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	4.000	38
	544	2001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	12.000	39
	544	2003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	8.000	40
	545	2049		CRASH CUSH ATTEN (INSTL)(WORK ZONE) DOLLARS and CENTS	EA	12.000	41

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	545	2050		CRASH CUSH ATTEN(MOV&RESET)(WORK ZONE)  DOLLARS CENTS and	EA	10.000	42
	545	2051		CRASH CUSH ATTEN (REMOVE)(WORK ZONE)  DOLLARS CENTS and	EA	12.000	43
	644	2004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS CENTS and	EA	3.000	44
	658	2304		INSTL DEL ASSM (D-DY)SZ 1(FLX)GF2 DOLLARS CENTS and	EA	60.000	45
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS CENTS and	LF	24,963.000	46
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS CENTS and	LF	25,064.000	47
	666	2012		REFL PAV MRK TY I (W) 4" (SLD)(100MIL) DOLLARS CENTS and	LF	7,614.000	48
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS CENTS and	LF	1,169.000	49
	666	2042		REFL PAV MRK TY I (W) 12"(SLD)(100MIL) DOLLARS CENTS and	LF	230.000	50
	666	2054		REFL PAV MRK TY I (W) (ARROW) (100MIL) DOLLARS CENTS and	EA	3.000	51

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2096		REFL PAV MRK TY I (W) (WORD) (100MIL) DOLLARS and CENTS	EA	3.000	52
	666	2105		REFL PAV MRK TY I (Y) 4" (BRK)(100MIL) DOLLARS and CENTS	LF	590.000	53
	666	2111		REFL PAV MRK TY I (Y) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	2,117.000	54
	666	2123		REFL PAV MRK TY I (Y) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	1,239.000	55
	666	2126		REFL PAV MRK TY I (Y) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	216.000	56
	666	2145		REF PAV MRK TY II (W) 4" (SLD) DOLLARS and CENTS	LF	7,614.000	57
	666	2153		REF PAV MRK TY II (W) 8" (SLD) DOLLARS and CENTS	LF	1,169.000	58
	666	2155		REF PAV MRK TY II (W) 12" (SLD) DOLLARS and CENTS	LF	230.000	59
	666	2160		REF PAV MRK TY II (W) (ARROW) DOLLARS and CENTS	EA	3.000	60
	666	2173		REF PAV MRK TY II (W) (WORD) DOLLARS and CENTS	EA	3.000	61
	666	2176		REF PAV MRK TY II (Y) 4" (BRK) DOLLARS and CENTS	LF	590.000	62

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2178		REF PAV MRK TY II (Y) 4" (SLD) DOLLARS and CENTS	LF	2,117.000	63
	666	2182		REF PAV MRK TY II (Y) 8" (SLD) DOLLARS and CENTS	LF	1,239.000	64
	666	2183		REF PAV MRK TY II (Y) 12" (SLD) DOLLARS and CENTS	LF	216.000	65
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	48.000	66
	677	2001		ELIM EXT PAV MRK & MRKS ( 4") DOLLARS and CENTS	LF	8,796.000	67
	677	2003		ELIM EXT PAV MRK & MRKS ( 8") DOLLARS and CENTS	LF	1,000.000	68
	677	2008		ELIM EXT PAV MRK & MRKS (ARROW) DOLLARS and CENTS	EA	3.000	69
	677	2018		ELIM EXT PAV MRK & MRKS (WORD) DOLLARS and CENTS	EA	3.000	70
	678	2001		PAV SURF PREP FOR MRK ( 4") DOLLARS and CENTS	LF	10,321.000	71
	678	2003		PAV SURF PREP FOR MRK ( 8") DOLLARS and CENTS	LF	2,292.000	72
	678	2004		PAV SURF PREP FOR MRK (12") DOLLARS and CENTS	LF	386.000	73

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	678	2007		PAV SURF PREP FOR MRK (ARROW) DOLLARS and CENTS	EA	3.000	74
	678	2018		PAV SURF PREP FOR MRK (WORD) DOLLARS and CENTS	EA	3.000	75
	1122	2002	001	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	1,126.000	76
	1122	2009	001	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	1,126.000	77
	1122	2016	001	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	420.000	78
	1122	2019	001	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	420.000	79
	1122	2037	001	TEMPORARY SEDIMENT CONTROL FENCE INSTLL DOLLARS and CENTS	LF	2,738.000	80
	1122	2057	001	TEMPORARY SEDIMENT CONTROL FENCE REMOVE DOLLARS and CENTS	LF	2,738.000	81
	3267	2011		D-GR HMA(SQ) TY-B PG64-22 DOLLARS and CENTS	TON	1,899.000	82
	3267	2050		D-GR HMA(SQ) TY-C PG70-22 DOLLARS and CENTS	TON	764.000	83

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6834	2002	002	PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	2.000	84

County: Denton

Highway: US 377

Control: 0081-03-051, etc.

**GENERAL NOTES:**

**SW3P RESPONSIBILITIES**

**TxDOT Area of Responsibility**

Responsible for the area defined by the limits of the subject project, except for those areas utilized and operated by the Contractor. These areas include, though are not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants.

**TxDOT Operational Responsibility**

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and operating the project within the requirements of the CGP for discharging storm water from the subject project and to notify MS4 permit holders of the intent to discharge storm water.

File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

**Contractor Area of Responsibility**

Responsible for all areas under their direct operational control which includes, though not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants. These areas may be located on or off the subject project's R.O.W.

**Contractor Operational Responsibility**

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and adhering to all requirements of the permit for discharging storm water from the areas under their operational control. Perform regular inspections, prepare a written report of deficiencies, and repair deficiencies within the time frame set forth by the permit. File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Responsible under contractual obligations to TxDOT to install, clean, repair, replace or remove sediment and erosion control devices as indicated on TxDOT's Inspection Reports, or as required by daily construction practices, within the time frame set forth by the permit.

County: Denton

Highway: US 377

Control: 0081-03-051, etc.

**SPECIFICATION DATA**

<b>Table 1: Soil Constants Requirements</b>				
Item	Description	Plasticity Index		Note
		Max	Min	
132	Embk (DC)(Type C1)	40	8	1
132	Embk(DC) (Type C2)	25	10	2

Note 1: Material excavated from the project must meet the PI requirements when used in the top 10 feet of embankment that supports the pavement structure or other locations shown in the plans. Do not use shale and obtain approval to incorporate shaley clay produced by the construction project.

Note 2: Use as a non-select embankment backfill as defined under Item 423.2.C.1. Use as an embankment to backfill behind abutments to the extent of the approach slab or to backfill areas enclosed by an abutment and / or retaining walls or other locations as shown in the plans.

<b>Table 2: Basis of Estimate for Permanent Construction</b>					
Item	Description	Thickness	Rate		Quantity
162	Block Sod	N/A			3,633 SY
168	Vegetative Watering (Warm)**	N/A	10	MG/Ac/Day	785 MG
310	Prime Coat (MC-30)	N/A	0.20	Gal/SY	1,778 Gal
3267	Hot Mix Asphalt (Ty B)	VARIES	110	Lbs/SY/In	1,899 Ton
3267	Hot Mix Asphalt (Ty C)	VARIES	110	Lbs/SY/In	764 Ton
* For contractor's information only					
**Adjust for actual field conditions/temperatures as necessary. See Vegetation Establishment Plan Sheet for estimated daily rates.					
Note: (1) Asphalt weight based on 110 Lbs/SY/In					

County: Denton

Highway: US 377

Control: 0081-03-051, etc.

Table 4: Basis of Estimate for Finish Colors (Items 427 & 446) <sup>1</sup>		
Element	Color	Specification Number <sup>2</sup>
Structural steel	Concrete Gray	35630

1. Unless otherwise noted, it is the intent of these plans that all exposed steel surfaces of bridges be given a tinted coating as shown or as directed. Such coating shall meet the applicable provisions of Item 446.
2. Federal Standard 595b colors.

**GENERAL**

Access will be provided to all business and residences at all times. Where turning radii are limited during phased construction at intersections, provide all weather surfaces such as RAP or base in turning movements to accommodate and to protect the traffic from edge drop-offs. Materials, labor, maintenance and removal for these temporary accesses and radii will not be paid for directly but will be considered subsidiary to the various bid items.

The construction, operation and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

The disturbed area for this project, as shown on the plans is 4.03 acres. However, the Total Disturbed Area (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

This project requires coordination with environmental resources agencies. There is a high probability that an environmentally sensitive area could be encountered on the contractor designated Project-Specific Locations (PSL) for this project (haul roads, equipment staging areas, borrow pits, disposal sites, field offices, storage areas, parking areas, etc.). Item 7.19.F, "Project-Specific Locations", will provide a listing of regulatory agencies that may need to be contacted regarding this project.

Prior to contract letting, bidders may request electronic earthwork information by email. Email: [Nancy.Cline@txdot.gov](mailto:Nancy.Cline@txdot.gov) or [Tina.Massey@txdot.gov](mailto:Tina.Massey@txdot.gov)

Earthwork files will be provided by email or by using TxDOT's Dropbox FTP Service.

**County: Denton**

**Highway: US 377**

**Control: 0081-03-051, etc.**

Bidders may also obtain a free computer diskette that contains earthwork information from the engineer's office. Paper copies of cross-sections may be produced by using the provided free diskette at the bidders' expense and at copying companies. This data is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the enclosed data with appropriate plans, specifications and estimate for the project(s).

Leave all right of way areas undisturbed until actual construction is to be performed in said areas.

Use established industry and utility safety practices to erect poles, luminaries, signs or structures near any overhead or underground utility. Consult with the appropriate utility company prior to beginning such work.

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way on this project. For signal, illumination, surveillance, and communications & control maintained by TxDOT, call the TxDOT Traffic Signal Office (214-320-6682) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Maintenance Landscape Office (214-320-6205) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages incurred to the above mentioned utilities when working without having the utilities located prior to excavation.

For the project to be deemed complete, permanently stabilize all unpaved disturbed areas of the project with a vegetative cover at a minimum of 70% density for the control of erosion.

Repair or replace any structures and utilities that might have been damaged by negligence or a failure to have utility locates performed.

Meet weekly with the engineer to notify him or her of planned work for the upcoming week.

Provide the engineer with a daily work schedule of planned work.

Submit pre-letting questions, by email only, to the attention of Area Engineer or Assistant Area Engineer.

Email: [Nancy.Cline@txdot.gov](mailto:Nancy.Cline@txdot.gov) or [Tina.Massey@txdot.gov](mailto:Tina.Massey@txdot.gov)

Answers will be provided by email.

An electronic file containing pre-letting questions and TxDOT answers will be provided upon email request.

Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

Provide the Engineer with a copy of all DBE subcontractor agreements prior to commencing work.

**County: Denton**

**Highway: US 377**

**Control: 0081-03-051, etc.**

**Item 6:**

This project has structures with surface coatings which contain lead. Contractor is responsible for the health and safety of his employees and compliance with all OSHA standards and regulations. Clean surface coating in accordance with item 446.

**Item 8:**

This Project will be a Five-Day Workweek in accordance with Article 8.3.A.1.

Use article 8.2.B

**Item 100:**

Remove the existing roadway small signs, delineators and object markers as shown on the plans, or as directed, during construction within the right of way. Small sign, delineator and object marker removals are subsidiary to this Item.

The limits of preparing right of way will be measured from Sta.103+50.00 to Sta. 142+50.00 along the centerline of construction.

**Item 104:**

In those areas where the pavement is not to be overlaid, provide a smooth surface after the curb removal. Planing or grinding is considered an acceptable method at these locations. Measurement and payment is in accordance with this item.

Sawing of concrete is not paid for directly, but is considered subsidiary to this item.

**Items 105, 251, 305, and 354:**

Saw existing asphalt along neat lines where portions are to be left in place temporarily or permanently. Sawing is not paid for directly, but is subsidiary to this item.

**Item 110:**

Scarify and loosen the excavated areas, unpaved surface areas, except rock, to a depth of at least 8 inches and compact in accordance with the specifications.

Perform the following test by an approved laboratory on excavated soils when used for roadway embankment: 1- Tex-145-E (Sulfate Content in Soils), 2- Tex-106-E (Plasticity Index). Provide the above-mentioned test results on sources outside of the right of way at no expense to the department. Contact the engineer for a list of approved laboratories. Notify the engineer 72 hours before sampling and testing material. Perform split-sample verification testing with the engineer when directed. The engineer will sample and test soils produced by the construction project for specification requirements or material sources specified in the plans.

Excavated shale is not an acceptable material for embankment.

**Items 110 and 132:**

Excavation and embankment for driveways, sleeper slabs, alleys and intersections will not be paid for directly, but will be considered subsidiary to these items.

**County: Denton**

**Highway: US 377**

**Control: 0081-03-051, etc.**

**Item 132:**

Earth embankment Types C1 and C2 are mainly composed of material other than shale. Furnish material that is free from vegetation or other objectionable material and that conforms to the requirements of Table 1 (Sheet B). If necessary, add lime slurry in accordance with Item 260, "Lime Treatment (Road-Mixed)" in order to meet these requirements. Use Tex-121-E, figure 1, page 5 to calculate the amount of lime required. Furnish material containing sulfate at or below the threshold of 5000 parts per million (ppm). For material with sulfate levels greater than 3000 ppm, allow the mixture to mellow for at least three days, or as directed. Test soil for sulfate levels in accordance with Tex-145-E. Use an approved laboratory to perform tests for sulfate and plasticity index and provide results on sources outside the right of way to the department. Contact the engineer for a list of approved laboratories. Notify the engineer 48 hours before sampling and testing material. Perform split-sample verification testing with the engineer when directed. The engineer will sample and test material produced by the construction project for specification requirements or material sources specified in the plans. The engineer will test material placed or excavated to a depth of one foot below and laterally to one foot outside the proposed treatment limit. Lime treatment and testing of this material will not be paid for directly, but will be considered subsidiary to this item.

Do not use shaley clays in embankment unless approved in writing.

Use embankment material Type C2 described in Table 1 "Soil Constants Requirements" for embankments behind bridge abutments to the extent of the bridge approach slabs, and other embankments enclosed by an abutment and / or retaining walls.

**Item 161:**

Provide tickets representing quantity of compost delivered to site.

**Item 247:**

Compact to at least 98% of the maximum density determined by Tex-113-E. Construct uniform layer thickness of 12 inches, or less with the required density and moisture content. Triaxial class is required for Grade 1 and 2. Minimum PI is equal to three (3) for all grades.

The use of contractor-owned recycled crushed concrete is allowed provided it meets the Departmental Material Specification, DMS-11000 requirements.

**Items 305 and 354:**

Take possession of recycled asphalt pavement from the project and recycle the material.

Properly dispose of unsalvageable material at your own expense.

Slope longitudinal faces greater than 1 ¼" to a minimum of 1:1 slope at the end of the work period if traffic is able to traverse the joint. Slope transverse tapers to a minimum of 36:1 at the end of the workday. Remove the taper prior to continuing the milling.

For open shoulder sections, plane the asphalt so the flow of water is not impeded at the shoulder edge or across the surface. Added planing up to three feet in width outside the lines and grades of the plans, necessary to provide proper drainage, will be subsidiary to the bid item.

**County: Denton**

**Highway: US 377**

**Control: 0081-03-051, etc.**

**Item 310:**

Do not use MC-30 on base courses placed between April 16 and September 15.

**Item 354:**

Remove the loose material from the roadway before opening to traffic.

Patch pavement cut to excessive depth by equipment failure with an approved epoxy material. Re-plane patched area to an acceptable approved ride quality. Payment for these corrections is subsidiary to this item.

**Item 400:**

Structural Excavation is not paid for directly but is considered subsidiary to pertinent Items.

When placing concrete storm drain pipe on slopes of greater than 10 percent, provide cement stabilized backfill to a depth shown on the plans. The aggregate shall conform to the requirements of Article 421.2.E.2.

**Item 416:**

Provide a minimum of one core per bent, regardless of placement method.

**Item 420:**

Apply an ordinary surface finish to all concrete surfaces within 30 days after form removal.

Form columns to a point a minimum of one foot below the proposed future or existing bottom of channel elevation indicated on the bridge layouts by an acceptable method. This form work is not paid for directly, but is considered subsidiary to this item.

***NATIONAL BRIDGE INVENTORY NUMBERS:***

Provide National Bridge Inventory (NBI) numbers on all bridge structures and bridge class culverts.

Where beam types allow access to the face of abutment backwall, place NBI numbers on the face of each abutment backwall using 3" block numbers. Locate NBI numbers between the outside beams at opposite corners of the bridge.

Where beam types do not allow access to the face of abutment backwall, place NBI numbers on the face of each abutment cap using 3" block numbers. Locate NBI numbers below the outside beams at opposite corners of the bridge.

Where a bridge begins, ends or contains a bent common to multiple structures, place NBI numbers on both faces near both ends of the common bent cap. The number placed at each of the four locations will correspond to the NBI number assigned to the bridge immediately above the number. Locate NBI numbers below the outside beam. Place using 3" Block Numbers.

For Bridge Class Culverts, place National Bridge Inventory numbers at the middle of the downstream headwall using 3" block letters.

**County: Denton**

**Highway: US 377**

**Control: 0081-03-051, etc.**

For all conditions, use appropriate die cut stencils and black paint for placement. All materials, labor and incidentals associated with placing NBI numbers are subsidiary to the various bid items.

**Item 421:**

Furnish mix designs to the Engineer in a format compatible to the latest version of the Department's Construction Management System (Site Manager). Mix Design templates will be provided by the Engineer.

Provide High Performance Concrete (HPC) of the class specified for the following bridge components: approach slabs, abutments, bents, columns, slabs, sidewalks and medians.

Provide High Performance Concrete (HPC) of the class specified for all railing and permanent concrete traffic barrier placed on bridges or approach slabs. HPC concrete is not required for portions of rail or concrete traffic barrier not located on a bridge.

Strength evaluation using maturity testing, Tex-426-A, may be used for all concrete elements except drilled shafts.

Provide a digital hydraulic compression testing Machine and accessories. The machine shall have a minimum testing range of 2500 pounds force to 250,000 pounds force with a hydraulic switching valve to allow for rapid advancing, hold, controlled advancing and rapid retracting. The machine shall have a load cell to measure compressive forces within the testing range and shall be calibrated and verified in accordance with ASTM latest version. The Machine can meet or exceed the following when approved by the Engineer:

Air-entrain all cast-in-place concrete except for Class "B" and concrete used in drilled shafts. For structural concrete, if the air content is more than 1.5% below the required air, follow manufacturer recommendations to add the necessary approved air bags to increase the air content at the job site. Limit the adding of air bags in the field to one trial. For structural concrete in abutments, bents and columns do not reject the load of concrete due to low air content; accept concrete based on strength tests. Structural concrete in approach slabs, slabs, sidewalks, medians and rails shall meet the provisions of the specification. Precast structural members do not require air entrainment.

**Item 440:**

Provide reinforcing steel with epoxy coating meeting the requirements of item 440 for the following bridge components: approach slab, slab, sidewalk, median, concrete traffic barrier, and rail.

Epoxy coated reinforcing is not required for portions of rail or concrete traffic barrier not located on a bridge.

Reinforcing for abutments, bents and columns are not required to be epoxy coated.

R-bars (I-beams, U-beams and TX Girders), Z-bars (boxes), H-bars (Slab beams), and C-bars (DT beams) are not required to be epoxy coated.

**County: Denton**

**Highway: US 377**

**Control: 0081-03-051, etc.**

All ties, chairs and other appurtenances used with epoxy coated reinforcing shall be epoxy coated or non-metallic.

Fiber Reinforced Concrete (FRC) can be used as a substitute for Non-Structural Class Reinforced Concrete in Mow-Strip and Rip Rap Items as approved. FRC may also be used for other Non-Structural Class Reinforced Concrete Items as approved.

**Item 442:**

Use temperature Zone 1 for CVN testing.

**Item 446:**

Paint all existing and proposed structural steel using protective "System II" paint in accordance with Item 446. Paint colors are shown elsewhere in the plans.

Clean and coat steel surfaces after removing existing concrete deck and prior to placing new forms or concrete. Perform all cleaning and painting in accordance with Item 446, "Cleaning and Painting Steel." Submit an analysis showing the loads, including wind loads, added to the existing structure by any containment system in accordance with Article 446.4.G.1. Apply a System II coating meeting the requirements of DMS-8100, "Structural Paints - Formula," for the prime coat and DMS-8101, "Structural Steel Paints – Performance," for the finish coat. Provide touch-up repairs with primer and finish coat to match existing coating after completing deck placement.

**Item 502:**

Provide written proposed lane closure information by 1:00 pm on the business day prior to the proposed closures. Do not close lanes when this requirement is not met.

When excavation is required next to a pavement lane carrying traffic and the widening is not completed by the end of the work day, backfill against the edge of the pavement with at least a 3:1 slope using an acceptable material to support vehicular traffic. Carefully remove and dispose of this material when work resumes. Backfilling pavement edges, and the materials required for the work will be subsidiary to this item.

Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

Provide rectangular shape (CW12-2P) Temporary Clearance Signs on all bridges where the existing vertical clearance has changed. Install Signs to the satisfaction of the Engineer prior to opening to traffic. Plywood sign blanks will have minimum dimensions of 84" X 12". Work performed and materials are subsidiary to this item.

Do not commence work on the road before sunrise. Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the engineer.

When moving unlicensed equipment on or across any pavement or public highways, protect the pavement from all damage using an acceptable method.

**County: Denton**

**Highway: US 377**

**Control: 0081-03-051, etc.**

As approved by the Engineer, provide uniformed off duty police officers and squad cars during lane or ramp closures, night time work or other situations that indicate a need for additional traffic control to protect the traveling public or the construction workforce. Provide documentation such as payroll, log sheets with signatures and badge number, or invoices from the government entity providing the officers for reimbursement. Complete the weekly tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided. Reimbursement will not be made for coordination fees charged by the police department.

Limit lane closures along us 377 to the hours between 9:00 am and 3:30 pm unless otherwise approved by the Engineer. Work in other areas of the project is not restricted to this time frame.

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 Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

**Item 512:**

The Contractor will furnish pre-cast F Shape Barriers for traffic control, and remove and retain possession of non-permanent barriers at the end of the project. Pre-cast F Shape Barriers must have drainage slots as detailed on the Concrete Safety Barrier Standards. Submit for approval the type of barrier joint connection proposed for the project.

**Item 540:**

Furnish one type of post throughout the project except as specifically noted in the plans.

**Item 542:**

All salvageable metal is the property of the contractor and must dispose of at his own expense.

Remove or cut off existing anchor bolts and fill holes with grout in bridge slabs as directed.

**Item 585:**

Use Surface Test Type B pay adjustment schedule 3 on the travel lanes.

**Item 1122:**

Take all practicable precautions to prevent debris from being discharged into the Waters of Texas or a designated wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

If temporary construction stream crossings are allowed under a Nationwide Permit, submit in writing for approval the type and location of each temporary stream crossing. Use temporary bridges, timber mats, or other structurally sound and non-eroding material for temporary stream crossings. A temporary culvert crossing will consist of storm sewer pipes and 4- to 8-inch nominal size rock. Temporary stream crossings must not cause more than minimal changes to

**County: Denton**

**Highway: US 377**

**Control: 0081-03-051, etc.**

the hydraulic flow characteristics of the stream, increase flooding, or cause more than minimal degradation of water quality. Remove the temporary stream crossings in their entirety and return the affected areas to their pre-existing elevation. All work and materials use for temporary construction stream crossings will not be paid for directly but are subsidiary to pertinent Items.

Provide SW3P Signs. Obtain from the Engineer a copy of the project's completed TPDES Storm Water Program Construction Site Notice and signed Contractor Certification Statement. Laminate the sheets and bond with adhesive to 36" X 36" plywood sign blanks. Ensure the sheets remain dry. Apply Type C Blue reflective sheeting as the background and add the text "SW3P" in 5" white lettering, centered at the top. Attach the signs to approved temporary mounts and locate at each of the project limits just inside the right of way line at a readable height or as directed by the Engineer. If the sign cannot be placed outside the clear zone, it must adhere to the TMUTCD. SW3P signs, maintenance, and repostings (for replacement or as needed to ensure readability) will be subsidiary to Item 502.

CONTROL : 0081-03-051, ETC  
PROJECT : BR 2013(177)  
HIGHWAY : US 377  
COUNTY : DENTON

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
- ITEM 104 REMOVING CONCRETE
- ITEM 105 REMOVING STABILIZED BASE AND ASPHALT PAVEMENT
- ITEM 110 EXCAVATION (132)
- ITEM 132 EMBANKMENT (100)(204)(210)(216)(400)
- ITEM 161 COMPOST (160)
- ITEM 162 SODDING FOR EROSION CONTROL (166)(168)
- ITEM 168 VEGETATIVE WATERING
- ITEM 247 FLEXIBLE BASE (105)(204)(210)(216)(520)
- ITEM 310 PRIME COAT (300)(316)
- ITEM 354 PLANING AND TEXTURING PAVEMENT
- ITEM 403 TEMPORARY SPECIAL SHORING (423)
- ITEM 416 DRILLED SHAFT FOUNDATIONS (420)(421)(440)(448)
- ITEM 420 CONCRETE STRUCTURES (400)(404)(421)(426)(427)(438)(440)  
(441)(448)
- ITEM 422 REINFORCED CONCRETE SLAB (420)(421)(424)(426)(430)(440)
- ITEM 425 PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS (420)  
(421)(424)(426)(427)(434)(440)(442)
- ITEM 430 EXTENDING CONCRETE STRUCTURES (420)(421)(440)(448)
- ITEM 432 RIPRAP (420)(421)(427)(431)(440)
- ITEM 442 METAL FOR STRUCTURES (441)(445)(446)(447)(448)(449)
- ITEM 446 CLEANING AND PAINTING STEEL
- ITEM 450 RAILING (420)(421)(424)(440)(441)(442)(445)(446)(448)  
(540)
- ITEM 452 REMOVING RAILING (420)
- ITEM 454 BRIDGE EXPANSION JOINTS (429)(442)
- ITEM 496 REMOVING STRUCTURES (430)
- ITEM 500 MOBILIZATION
- ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING

ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (420)(421)(424)(440)  
(442)  
ITEM 540 METAL BEAM GUARD FENCE (421)(441)(445)(529)(542)(544)  
ITEM 542 REMOVING METAL BEAM GUARD FENCE  
ITEM 544 GUARDRAIL END TREATMENTS  
ITEM 545 CRASH CUSHION ATTENUATORS (421)  
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 672 RAISED PAVEMENT MARKERS (677)(678)  
ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)  
(302)(316)  
ITEM 678 PAVEMENT SURFACE PREPARATION FOR MARKINGS (677)

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

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS  
(FORM FHWA 1273, MAY, 2012)

WAGE RATES

SPECIAL PROVISION "NOTICE TO ALL BIDDERS" (000---003)  
SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO  
ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)  
SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY  
CONSTRUCTION CONTRACT SPECIFICATIONS" (000---006)  
SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"  
(000---009)  
SPECIAL PROVISION "DEPARTMENT DIVISION MAILING AND PHYSICAL ADDRESS"  
(000---011)  
SPECIAL PROVISION "NOTICE OF CHANGES TO U.S. DEPARTMENT OF LABOR  
REQUIRED PAYROLL INFORMATION" (000--1483)  
SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000--1676)  
SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL AID  
CONTRACTS" (000--1966)  
SPECIAL PROVISION "PARTNERING" (000--2329)  
SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--2332)  
SPECIAL PROVISION "NONDISCRIMINATION" (000--2607)  
SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--2711)  
SPECIAL PROVISION TO ITEM 1 (001---015)  
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 PROVISIONS TO ITEM 6 (006---030)(006---047)  
SPECIAL PROVISION TO ITEM 7 (007---918)  
SPECIAL PROVISIONS TO ITEM 8 (008---006)(008---119)  
SPECIAL PROVISIONS TO ITEM 9 (009---009)(009---015)  
SPECIAL PROVISION TO ITEM 100 (100---002)  
SPECIAL PROVISION TO ITEM 161 (161---006)

SPECIAL PROVISION TO ITEM 247 (247---033)  
 SPECIAL PROVISION TO ITEM 300 (300---039)  
 SPECIAL PROVISION TO ITEM 302 (302---010)  
 SPECIAL PROVISION TO ITEM 316 (316---016)  
 SPECIAL PROVISION TO ITEM 318 (318---010)  
 SPECIAL PROVISION TO ITEM 420 (420---002)  
 SPECIAL PROVISION TO ITEM 421 (421---035)  
 SPECIAL PROVISION TO ITEM 424 (424---003)  
 SPECIAL PROVISION TO ITEM 425 (425---001)  
 SPECIAL PROVISION TO ITEM 429 (429---008)  
 SPECIAL PROVISION TO ITEM 434 (434---003)  
 SPECIAL PROVISION TO ITEM 440 (440---006)  
 SPECIAL PROVISION TO ITEM 441 (441---008)  
 SPECIAL PROVISION TO ITEM 442 (442---016)  
 SPECIAL PROVISION TO ITEM 448 (448---002)  
 SPECIAL PROVISION TO ITEM 450 (450---001)  
 SPECIAL PROVISION TO ITEM 454 (454---003)  
 SPECIAL PROVISION TO ITEM 500 (500---011)  
 SPECIAL PROVISION TO ITEM 502 (502---033)  
 SPECIAL PROVISION TO ITEM 512 (512---002)  
 SPECIAL PROVISION TO ITEM 540 (540---031)  
 SPECIAL PROVISION TO ITEM 672 (672---034)  
 SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 1122 (1122--001)  
 SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 6834 (6834--002)

SPECIAL SPECIFICATIONS:

-----  
 ITEM 1122 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL  
 CONTROLS (161)(432)(556)  
 ITEM 3267 DENSE-GRADED HOT-MIX ASPHALT (SMALL QUANTITY) (300)(301)  
 (320)(520)(585)  
 ITEM 6834 PORTABLE CHANGEABLE MESSAGE SIGN

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.

## **SPECIAL PROVISION**

**442---016**

### **Metal for Structures**

For this project, Item 442, “Metal for Structures,” of the Standard Specifications, is hereby amended with respect to the clauses cited below, and no other clauses or requirements of this Item are waived or changed hereby.

**Article 442.2, “Materials,” Section A, “Structural Steel,” Section 1, “Bridge Structures.”** The third sentence is voided and not replaced.

**Article 442.5, “Payment,”** is voided and replaced by the following:

**442.5. Payment.** The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement” will be paid for at the unit price bid for “Structural Steel” of the type (Rolled Beam, Plate Girder, Tub Girder, Box Girder, Railroad Through-Girder, Railroad Deck-Girder, Miscellaneous Bridge, Miscellaneous Non-Bridge) specified. This price is full compensation for materials, fabrication, transportation, erection, paint, painting, galvanizing, equipment, tools, labor, and incidentals.