

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 3

DATED 8/03/2015

Control	0048-04-079
Project	NH 1502(531)
Highway	IH 35E
County	ELLIS

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: NH 1502(531)

CONTROL: 0048-04-079

COUNTY: ELLIS

LETTING: 08/05/2015

REFERENCE NO: 0803

PROPOSAL ADDENDUMS

___ PROPOSAL COVER

X BID INSERTS (SH. NO.: 1,9,13,14,17,22)

X GENERAL NOTES (SH. NO.: FF)

___ SPEC LIST (SH. NO.:)

___ SPECIAL PROVISIONS:)

ADDED:

DELETED:

___ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: "SEE CHANGES OUTLINED BELOW"

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

BID INSERTS

SHT 1-25: REVISED QUANTITY FOR ITEM 110-6001

REVISED QUANTITY FOR ITEM 132-6025

REVISED QUANTITY FOR ITEM 132-6026

SHT 9-25: REMOVED ITEM 471-6007

SHT 13-25: ADDED ITEM 530-6017

SHT 14-25: REVISED QUANTITY FOR ITEM 545-6001

REVISED QUANTITY FOR ITEM 545-6003

ADDED ITEM 545-6005

ADDED ITEM 610-6116

SHT 17-25: ADDED ITEM 636-6001

SHT 22-25: REVISED QUANTITY FOR ITEM 6001-6002

SHT 25-25: REVISED QUANTITY FOR ITEM 6145-6001

SPECIFICATION DATA (GENERAL NOTES)

SHTT FF: REVISED THE NOTE UNDER AESTHETIC ILLUMINATION

ADDED NOTE UNDER ITEM 610

ADDED NOTE UNDER ITEM 6145

PLAN SHEETS:

THE FOLLOWING SHEETS WERE REVISED: 37P,38,38A-F,62-64,72,76,89,95,

176,177,181-184,186-190,192,194,196,200,212,216,221,695,1241,1250-1253

PROJECT NH 1502(531)
COUNTY ELLIS

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

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	6002		PREPARING ROW DOLLARS and CENTS	STA	612.000	1
	104	6001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	370,865.000	2
	104	6009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	3,362.000	3
	104	6014		REMOVING CONC (FOUNDATIONS) DOLLARS and CENTS	CY	3.020	4
	104	6021		REMOVING CONC (CURB) DOLLARS and CENTS	LF	3,767.000	5
	105	6015		REMOVING STAB BASE & ASPH PAV (8"-10") DOLLARS and CENTS	SY	437,883.000	6
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	613,014.000	7
	132	6025		EMBANKMENT (FINAL) (DENS CONT) (TY C1) DOLLARS and CENTS	CY	56,623.000	8
	132	6026		EMBANKMENT (FINAL) (DENS CONT) (TY C2) DOLLARS and CENTS	CY	38,118.000	9
	160	6003		FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS	SY	23,651.000	10
	162	6002		BLOCK SODDING DOLLARS and CENTS	SY	23,651.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	164	6035		DRILL SEEDING (PERM) (RURAL) (CLAY) DOLLARS and CENTS	SY	651,397.000	12
	164	6041		DRILL SEEDING (TEMP) (WARM) DOLLARS and CENTS	SY	968,536.000	13
	168	6001		VEGETATIVE WATERING DOLLARS and CENTS	MG	843.360	14
	247	6304		FL BS (CMP IN PLACE) (TY D GR 1-2)(10") DOLLARS and CENTS	SY	646,792.000	15
	247	6477		FL BS (CMP IN PLC)(TY D GR 1-2)(16") DOLLARS and CENTS	SY	42,634.000	16
	260	6004		LIME (QUICKLIME (DRY)) DOLLARS and CENTS	TON	8,644.000	17
	260	6017		LIME TRT(MIX EXST MATL & NEW BASE)(8") DOLLARS and CENTS	SY	222,664.000	18
	310	6005		PRIME COAT (AE-P) DOLLARS and CENTS	GAL	291,258.000	19
	341	6008		D-GR HMA TY-B PG64-22 DOLLARS and CENTS	TON	10,603.000	20
	341	6028		D-GR HMA TY-C PG70-22 DOLLARS and CENTS	TON	12,347.000	21
	341	6255		D-GR HMA TY-B PG64-22 (EXEMPT) DOLLARS and CENTS	TON	136,504.000	22
	360	6007		CONC PVMT (CONT REINF - CRCP) (13") DOLLARS and CENTS	SY	272,127.000	23

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	360	6023		CONC PVMT (JOINTED - CPCD) (13") DOLLARS and CENTS	SY	318,043.000	24
	361	6007		FULL - DEPTH REPAIR CRCP (13") DOLLARS and CENTS	SY	200.000	25
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	11,961.000	26
	402	6001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	10,041.000	27
	403	6001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	69,156.000	28
	410	6001		SOIL NAIL ANCHORS DOLLARS and CENTS	LF	31,072.000	29
	416	6001		DRILL SHAFT (18 IN) DOLLARS and CENTS	LF	573.000	30
	416	6004		DRILL SHAFT (36 IN) DOLLARS and CENTS	LF	6,626.000	31
	416	6007		DRILL SHAFT (54 IN) DOLLARS and CENTS	LF	35.000	32
	416	6018		DRILL SHAFT (SIGN MTS) (24 IN) DOLLARS and CENTS	LF	12.000	33
	416	6021		DRILL SHAFT (SIGN MTS) (42 IN) DOLLARS and CENTS	LF	588.000	34
	416	6022		DRILL SHAFT (SIGN MTS) (48 IN) DOLLARS and CENTS	LF	17.000	35

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	ITEM NO	DESC CODE	S.P. NO.				
	416	6029		DRILL SHAFT (RDWY ILL POLE) (30 IN) DOLLARS and CENTS	LF	160.000	36
	420	6011		CL B CONC (FLUME) DOLLARS and CENTS	CY	274.400	37
	420	6014		CL C CONC (ABUT)(HPC) DOLLARS and CENTS	CY	893.400	38
	420	6026		CL C CONC (BENT)(HPC) DOLLARS and CENTS	CY	1,521.800	39
	422	6002		REINF CONC SLAB (HPC) DOLLARS and CENTS	SF	250,051.000	40
	422	6014		BRIDGE SIDEWALK (HPC) DOLLARS and CENTS	SF	5,834.000	41
	422	6016		APPROACH SLAB (HPC) DOLLARS and CENTS	CY	1,657.000	42
	423	6002		RETAINING WALL (MSE) (ASHLAR STONE FIN) DOLLARS and CENTS	SF	16,471.000	43
	423	6015		RETAINING WALL (SPECIAL) DOLLARS and CENTS	SF	240.000	44
	423	6024		RET WALL (SOIL NAIL)(ASHLAR FIN) DOLLARS and CENTS	SF	20,664.000	45
	425	6035		PRESTR CONC GIRDER (TX28) DOLLARS and CENTS	LF	3,255.500	46
	425	6036		PRESTR CONC GIRDER (TX34) DOLLARS and CENTS	LF	3,576.300	47

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	ITEM NO	DESC CODE	S.P. NO.				
	425	6038		PRESTR CONC GIRDER (TX46) DOLLARS and CENTS	LF	14,466.620	48
	425	6039		PRESTR CONC GIRDER (TX54) DOLLARS and CENTS	LF	8,709.270	49
	427	6003		OPAQUE SEALER FINISH DOLLARS and CENTS	SF	291,771.000	50
	432	6001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	815.200	51
	432	6002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	507.000	52
	432	6031		RIPRAP (STONE PROTECTION)(12 IN) DOLLARS and CENTS	CY	112.000	53
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	96.800	54
	442	6007		STR STEEL (MISC NON - BRIDGE) DOLLARS and CENTS	LB	412.000	55
	446	6001		CLEAN & PAINT EXIST STR (SYSTEM I) DOLLARS and CENTS	LS	3.000	56
	450	6014		RAIL (TY T551) DOLLARS and CENTS	LF	5,185.000	57
	450	6016		RAIL (TY T552) DOLLARS and CENTS	LF	828.000	58
	450	6037		RAIL (TY C411)(HPC) DOLLARS and CENTS	LF	1,248.600	59

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	450	6039		RAIL (TY C412)(HPC) DOLLARS and CENTS	LF	4,550.400	60
	451	6038		RETROFIT RAIL (TY C411)(HPC) DOLLARS and CENTS	LF	1,020.000	61
	451	6040		RETROFIT RAIL (TY C412)(HPC) DOLLARS and CENTS	LF	2,208.000	62
	454	6001		SEALED EXPANSION JOINT (4 IN) (SEJ - A) DOLLARS and CENTS	LF	1,807.000	63
	462	6001		CONC BOX CULV (3 FT X 2 FT) DOLLARS and CENTS	LF	539.000	64
	462	6007		CONC BOX CULV (5 FT X 3 FT) DOLLARS and CENTS	LF	465.000	65
	462	6008		CONC BOX CULV (5 FT X 4 FT) DOLLARS and CENTS	LF	493.000	66
	462	6024		CONC BOX CULV (9 FT X 5 FT) DOLLARS and CENTS	LF	396.000	67
	462	6034		CONC BOX CULV (10 FT X 10 FT) DOLLARS and CENTS	LF	144.000	68
	464	6003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	4,124.000	69
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	14,627.000	70
	464	6007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	964.000	71

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	464	6008		RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	1,377.000	72
	464	6009		RC PIPE (CL III)(42 IN) DOLLARS and CENTS	LF	467.000	73
	464	6010		RC PIPE (CL III)(48 IN) DOLLARS and CENTS	LF	552.000	74
	464	6012		RC PIPE (CL III)(60 IN) DOLLARS and CENTS	LF	16.000	75
	464	6026		RC PIPE (CL V)(24 IN) DOLLARS and CENTS	LF	151.000	76
	465	6011		JCTBOX(COMPL)(PJB)(6FTX6FT) DOLLARS and CENTS	EA	4.000	77
	465	6165		INLET (COMPL)(TY C)(3 GRATE) DOLLARS and CENTS	EA	6.000	78
	465	6206		INLET (COMPL)(TY C)(1 GRATE) DOLLARS and CENTS	EA	4.000	79
	465	6207		INLET (COMPL)(CURB)(TY 1)(10') DOLLARS and CENTS	EA	6.000	80
	465	6232		MANH (COMPL)(TY MH-M) DOLLARS and CENTS	EA	21.000	81
	465	6237		INLET (RAIL & GRATE) (TY II) DOLLARS and CENTS	EA	113.000	82
	465	6258		INLET(COMPL)(EXT)(RAIL & GRATE)(TY II) DOLLARS and CENTS	EA	113.000	83

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	465	6273		INLET (COMPL) (TY C) (2 GRATE) DOLLARS and CENTS	EA	17.000	84
	466	6103		HEADWALL (CH - PW - 0) (DIA= 48 IN) DOLLARS and CENTS	EA	1.000	85
	466	6130		HEADWALL (CH - PW - S) (DIA= 24 IN) DOLLARS and CENTS	EA	1.000	86
	467	6116		SET (TY I)(S=3 FT)(HW= 4 FT)(6:1)(P) DOLLARS and CENTS	EA	1.000	87
	467	6178		SET (TY I)(S= 5 FT)(HW= 4 FT)(4:1) (P) DOLLARS and CENTS	EA	1.000	88
	467	6180		SET (TY I)(S= 5 FT)(HW= 4 FT)(6:1) (P) DOLLARS and CENTS	EA	1.000	89
	467	6362		SET (TY II) (18 IN) (RCP) (6: 1) (C) DOLLARS and CENTS	EA	13.000	90
	467	6363		SET (TY II) (18 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	20.000	91
	467	6388		SET (TY II) (24 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	2.000	92
	467	6390		SET (TY II) (24 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	20.000	93
	467	6394		SET (TY II) (24 IN) (RCP) (6: 1) (C) DOLLARS and CENTS	EA	8.000	94
	467	6395		SET (TY II) (24 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	29.000	95

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	467	6419		SET (TY II) (30 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	1.000	96
	467	6451		SET (TY II) (36 IN) (RCP) (4: 1) (P) DOLLARS and CENTS	EA	1.000	97
	467	6454		SET (TY II) (36 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	8.000	98
	467	6466		SET (TY II) (42 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	1.000	99
	467	6477		SET (TY II) (48 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	3.000	100
	467	6479		SET (TY II) (48 IN) (RCP) (6: 1) (C) DOLLARS and CENTS	EA	3.000	101
	474	6001		SLOT DRAIN (GAL STL) (12 IN) DOLLARS and CENTS	LF	8,703.000	102
	474	6005		SLOT DRAIN (GAL STL) (18 IN) DOLLARS and CENTS	LF	6,950.000	103
	476	6006		JACK BOR OR TUN PIPE(18 IN)(RC)(CL III) DOLLARS and CENTS	LF	839.000	104
	476	6013		JACK BOR OR TUN PIPE(24 IN)(RC)(CL III) DOLLARS and CENTS	LF	1,075.000	105
	476	6019		JACK BOR OR TUN PIPE(30 IN)(RC)(CL III) DOLLARS and CENTS	LF	183.000	106
	476	6024		JACK BOR OR TUN PIPE(36 IN)(RC)(CL III) DOLLARS and CENTS	LF	220.000	107

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	476	6065		JACK BOR TUN BOX CULV (3 FT X 2 FT) DOLLARS and CENTS	LF	100.000	108
	476	6073		JACK BOR TUN BOX CULV (5 FT X 4 FT) DOLLARS and CENTS	LF	151.000	109
	496	6002		REMOV STR (INLET) DOLLARS and CENTS	EA	32.000	110
	496	6004		REMOV STR (SET) DOLLARS and CENTS	EA	66.000	111
	496	6005		REMOV STR (WINGWALL) DOLLARS and CENTS	EA	6.000	112
	496	6006		REMOV STR (HEADWALL) DOLLARS and CENTS	EA	13.000	113
	496	6007		REMOV STR (PIPE) DOLLARS and CENTS	LF	6,399.000	114
	496	6008		REMOV STR (BOX CULVERT) DOLLARS and CENTS	LF	148.000	115
	496	6010		REMOV STR (BRIDGE 100 - 499 FT LENGTH) DOLLARS and CENTS	EA	10.000	116
	496	6011		REMOV STR (BRIDGE 500 - 999 FT LENGTH) DOLLARS and CENTS	EA	2.000	117
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	118
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	38.000	119

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	506	6001	001	ROCK FILTER DAMS (INSTALL) (TY 1) DOLLARS and CENTS	LF	540.000	120
	506	6002	001	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	454.000	121
	506	6011	001	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	994.000	122
	506	6020	001	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	4,400.000	123
	506	6024	001	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	4,400.000	124
	506	6038	001	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	10,110.000	125
	506	6039	001	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	10,110.000	126
	506	6042	001	BIODEG EROSN CONT LOGS (INSTL) (18") DOLLARS and CENTS	LF	5,220.000	127
	506	6043	001	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	5,220.000	128
	508	6001		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	87,733.000	129
	508	6003		CONSTRUCTING DETOURS (TY 1) DOLLARS and CENTS	SY	49,463.000	130
	512	6009		PORT CTB (FUR & INST)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	10,717.000	131

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	512	6010		PORT CTB (FUR & INST)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	40.000	132
	512	6013		PORT CTB (DES SOURCE)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	59,430.000	133
	512	6025		PORT CTB (MOVE)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	165,381.000	134
	512	6029		PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	110,960.000	135
	512	6033		PORT CTB (MOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	2,883.000	136
	512	6037		PORT CTB (STKPL)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	69,360.000	137
	512	6041		PORT CTB (STKPL)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	57,956.000	138
	512	6049		PORT CTB (REMOVE)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	168.000	139
	514	6001		PERM CTB (SGL SLOPE) (TY 1) (42) DOLLARS and CENTS	LF	1,910.000	140
	514	6038		PERM CTB (SSCB)(TY 1)(MOD) DOLLARS and CENTS	LF	961.000	141
	514	6039		PERM CTB (SSCB)(TY 2)(MOD) DOLLARS and CENTS	LF	49,785.000	142
	514	6040		PERM CTB (SSCB)(TY 3)(MOD) DOLLARS and CENTS	LF	1,161.000	143

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	528	6001		COLORED TEXTURED CONC (4") DOLLARS and CENTS	SY	1,336.000	144
	529	6008		CONC CURB & GUTTER (TY II) DOLLARS and CENTS	LF	13,044.000	145
	530	6004		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	1,653.000	146
	530	6017		DRIVEWAYS (CONC) (HES) DOLLARS and CENTS	SY	551.000	147
	531	6001		CONC SIDEWALKS (4") DOLLARS and CENTS	SY	2,480.000	148
	531	6004		CURB RAMPS (TY 1) DOLLARS and CENTS	EA	11.000	149
	531	6005		CURB RAMPS (TY 2) DOLLARS and CENTS	EA	5.000	150
	531	6013		CURB RAMPS (TY 10) DOLLARS and CENTS	EA	36.000	151
	540	6002		MTL W-BEAM GD FEN (STEEL POST) DOLLARS and CENTS	LF	19,487.500	152
	540	6006		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	16.000	153
	540	6007		MTL BEAM GD FEN TRANS (TL2) DOLLARS and CENTS	EA	15.000	154
	540	6016		DOWNSTREAM ANCHOR TERMINAL SEC- TION DOLLARS and CENTS	EA	75.000	155

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	ITEM NO	DESC CODE	S.P. NO.				
	540	6018		MTL BM GD FEN TRANS (NON - SYM) DOLLARS and CENTS	EA	28.000	156
	542	6001		REMOVE METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	13,021.000	157
	542	6002		REMOVE TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	50.000	158
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	78.000	159
	544	6003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	51.000	160
	545	6001		CRASH CUSH ATTEN (INSTL) DOLLARS and CENTS	EA	74.000	161
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	17.000	162
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	74.000	163
	610	6009		REMOVE RD IL ASM (TRANS-BASE) DOLLARS and CENTS	EA	23.000	164
	610	6102		REPLACE LUMINAIRE W/LED (250W EQ) DOLLARS and CENTS	EA	10.000	165
	610	6104		IN RD IL (U/P) (TY 1) (150W EQ) LED DOLLARS and CENTS	EA	6.000	166
	610	6116		IN RD IL (TY SA) 20S-4 (150W EQ) LED DOLLARS and CENTS	EA	20.000	167

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	ITEM NO	DESC CODE	S.P. NO.				
	610	6214		IN RD IL (TY SA) 40T-8 (250W EQ) LED DOLLARS and CENTS	EA	11.000	168
	618	6023		CONDT (PVC) (SCH 40) (2") DOLLARS and CENTS	LF	9,628.000	169
	618	6024		CONDT (PVC) (SCH 40) (2") (BORE) DOLLARS and CENTS	LF	425.000	170
	618	6029		CONDT (PVC) (SCH 40) (3") DOLLARS and CENTS	LF	2,155.000	171
	618	6030		CONDT (PVC) (SCH 40) (3") (BORE) DOLLARS and CENTS	LF	7,920.000	172
	618	6031		CONDT (PVC) (SCH 40) (3") (CONC ENCSE) DOLLARS and CENTS	LF	110,440.000	173
	618	6046		CONDT (PVC) (SCH 80) (2") DOLLARS and CENTS	LF	255.000	174
	618	6047		CONDT (PVC) (SCH 80) (2") (BORE) DOLLARS and CENTS	LF	1,610.000	175
	618	6062		CONDT (RM) (3/4") DOLLARS and CENTS	LF	444.000	176
	618	6064		CONDT (RM) (1") DOLLARS and CENTS	LF	100.000	177
	618	6070		CONDT (RM) (2") DOLLARS and CENTS	LF	20.000	178
	618	6074		CONDT (RM) (3") DOLLARS and CENTS	LF	3,590.000	179

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	620	6003		ELEC CONDR (NO.12) BARE DOLLARS and CENTS	LF	509.000	180
	620	6004		ELEC CONDR (NO.12) INSULATED DOLLARS and CENTS	LF	1,018.000	181
	620	6007		ELEC CONDR (NO.8) BARE DOLLARS and CENTS	LF	13,206.000	182
	620	6008		ELEC CONDR (NO.8) INSULATED DOLLARS and CENTS	LF	88,037.000	183
	620	6009		ELEC CONDR (NO.6) BARE DOLLARS and CENTS	LF	1,385.000	184
	620	6010		ELEC CONDR (NO.6) INSULATED DOLLARS and CENTS	LF	4,320.000	185
	620	6011		ELEC CONDR (NO.4) BARE DOLLARS and CENTS	LF	1,495.000	186
	620	6012		ELEC CONDR (NO.4) INSULATED DOLLARS and CENTS	LF	5,205.000	187
	620	6015		ELEC CONDR (NO.2) BARE DOLLARS and CENTS	LF	1,445.000	188
	620	6016		ELEC CONDR (NO.2) INSULATED DOLLARS and CENTS	LF	2,890.000	189
	624	6001		GROUND BOX TY A (122311) DOLLARS and CENTS	EA	3.000	190
	624	6002		GROUND BOX TY A (122311)W/APRON DOLLARS and CENTS	EA	35.000	191

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	624	6009		GROUND BOX TY D (162922) DOLLARS and CENTS	EA	8.000	192
	624	6019		GROUND BOX TY 1 (364860)W/APRON DOLLARS and CENTS	EA	93.000	193
	624	6023		GROUND BOX TY 2 (484860)W/APRON DOLLARS and CENTS	EA	8.000	194
	628	6002		REMOVE ELECTRICAL SERVICES DOLLARS and CENTS	EA	1.000	195
	628	6011		ELC SRV TY A 120/240 060(NS)SS(E)TP(O) DOLLARS and CENTS	EA	5.000	196
	628	6040		ELC SRV TY A 240/480 060(NS)SS(E)EX(O) DOLLARS and CENTS	EA	1.000	197
	628	6151		ELC SRV TY D 120/240 060(NS)SS(N)PS(U) DOLLARS and CENTS	EA	5.000	198
	628	6249		ELC SRV TY D 120/240 100(NS)SS(N)PS(U) DOLLARS and CENTS	EA	1.000	199
	636	6001		ALUMINUM SIGNS (TY A) DOLLARS and CENTS	SF	63.000	200
	636	6003		ALUMINUM SIGNS (TY O) DOLLARS and CENTS	SF	5,246.250	201
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	61.000	202
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	107.000	203

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	6027		IN SM RD SN SUP&AM TYS80(1)SA(P) DOLLARS and CENTS	EA	10.000	204
	644	6030		IN SM RD SN SUP&AM TYS80(1)SA(T) DOLLARS and CENTS	EA	58.000	205
	644	6033		IN SM RD SN SUP&AM TYS80(1)SA(U) DOLLARS and CENTS	EA	1.000	206
	644	6051		IN SM RD SN SUP&AM TYS80(2)SA(P-EXAL) DOLLARS and CENTS	EA	18.000	207
	644	6064		IN BRIDGE MNT CLEARANCE SGN ASSM(TY N) DOLLARS and CENTS	EA	26.000	208
	644	6065		IN BRIDGE MNT CLEARANCE SGN ASSM(TY S) DOLLARS and CENTS	EA	3.000	209
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	221.000	210
	647	6001		INSTALL LRSS (STRUCT STEEL) DOLLARS and CENTS	LB	329.560	211
	647	6002		RELOCATE LRSA DOLLARS and CENTS	EA	1.000	212
	647	6007		REMOVE LRSA (FOUNDATION ONLY)(36 IN) DOLLARS and CENTS	EA	1.000	213
	650	6028		INS OH SN SUP(30 FT BAL TEE) DOLLARS and CENTS	EA	2.000	214
	650	6032		INS OH SN SUP(30 FT CANT) DOLLARS and CENTS	EA	40.000	215

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	654	6006		SIGN WALKWAY (48 IN) WITH HNDRL DOLLARS and CENTS	LF	92.000	216
	658	6047		INSTL OM ASSM (OM-2Y)(WC)GND DOLLARS and CENTS	EA	56.000	217
	658	6061		INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2 DOLLARS and CENTS	EA	231.000	218
	662	6001		WK ZN PAV MRK NON-REMOV (W)4"(BRK) DOLLARS and CENTS	LF	120,000.000	219
	662	6004		WK ZN PAV MRK NON-REMOV (W)4"(SLD) DOLLARS and CENTS	LF	144,208.000	220
	662	6034		WK ZN PAV MRK NON-REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	130,497.000	221
	662	6060		WK ZN PAV MRK REMOV (W)4"(BRK) DOLLARS and CENTS	LF	419,505.000	222
	662	6063		WK ZN PAV MRK REMOV (W)4"(SLD) DOLLARS and CENTS	LF	489,905.000	223
	662	6071		WK ZN PAV MRK REMOV (W)8"(SLD) DOLLARS and CENTS	LF	100,581.000	224
	662	6075		WK ZN PAV MRK REMOV (W)24"(SLD) DOLLARS and CENTS	LF	69.000	225
	662	6095		WK ZN PAV MRK REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	480,084.000	226
	666	6036		REFL PAV MRK TY I (W)8"(SLD)(100MIL) DOLLARS and CENTS	LF	32,490.000	227

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6039		REFL PAV MRK TY I (W)12"(LNDP)(100MIL) DOLLARS and CENTS	LF	5,410.000	228
	666	6042		REFL PAV MRK TY I (W)12"(SLD)(100MIL) DOLLARS and CENTS	LF	4,400.000	229
	666	6048		REFL PAV MRK TY I (W)24"(SLD)(100MIL) DOLLARS and CENTS	LF	228.000	230
	666	6054		REFL PAV MRK TY I (W)(ARROW)(100MIL) DOLLARS and CENTS	EA	18.000	231
	666	6075		REFL PAV MRK TY I (W)(NUMBER)(100MIL) DOLLARS and CENTS	EA	18.000	232
	666	6078		REFL PAV MRK TY I (W)(WORD)(100MIL) DOLLARS and CENTS	EA	18.000	233
	666	6081		REFL PAV MRK TY I(W)(ENTR GORE)(100MIL) DOLLARS and CENTS	EA	29.000	234
	666	6084		REFL PAV MRK TY I(W)(EXIT GORE)(100MIL) DOLLARS and CENTS	EA	25.000	235
	666	6167		REFL PAV MRK TY II (W) 4" (BRK) DOLLARS and CENTS	LF	3,885.000	236
	666	6170		REFL PAV MRK TY II (W) 4" (SLD) DOLLARS and CENTS	LF	138,515.000	237
	666	6171		REFL PAV MRK TY II (W) 6" (BRK) DOLLARS and CENTS	LF	58,553.000	238
	666	6178		REFL PAV MRK TY II (W) 8" (SLD) DOLLARS and CENTS	LF	32,490.000	239

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6179		REFL PAV MRK TY II (W) 12" (LNDP) DOLLARS and CENTS	LF	5,410.000	240
	666	6180		REFL PAV MRK TY II (W) 12" (SLD) DOLLARS and CENTS	LF	4,400.000	241
	666	6182		REFL PAV MRK TY II (W) 24" (SLD) DOLLARS and CENTS	LF	228.000	242
	666	6184		REFL PAV MRK TY II (W) (ARROW) DOLLARS and CENTS	EA	18.000	243
	666	6191		REFL PAV MRK TY II (W) (NUMBER) DOLLARS and CENTS	EA	18.000	244
	666	6192		REFL PAV MRK TY II (W) (WORD) DOLLARS and CENTS	EA	18.000	245
	666	6193		REFL PAV MRK TY II (W) (ENTR GORE) DOLLARS and CENTS	EA	29.000	246
	666	6194		REFL PAV MRK TY II (W) (EXIT GORE) DOLLARS and CENTS	EA	25.000	247
	666	6207		REFL PAV MRK TY II (Y) 4" (SLD) DOLLARS and CENTS	LF	127,470.000	248
	666	6300		RE PM W/RET REQ TY I (W)4"(BRK)(100MIL) DOLLARS and CENTS	LF	3,385.000	249
	666	6303		RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	138,515.000	250
	666	6306		RE PM W/RET REQ TY I (W)6"(BRK)(100MIL) DOLLARS and CENTS	LF	58,553.000	251

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6315		RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	127,470.000	252
	672	6007		REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	463.000	253
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	86.000	254
	672	6010		REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	7,921.000	255
	678	6001		PAV SURF PREP FOR MRK (4") DOLLARS and CENTS	LF	269,870.000	256
	678	6002		PAV SURF PREP FOR MRK (6") DOLLARS and CENTS	LF	58,553.000	257
	678	6004		PAV SURF PREP FOR MRK (8") DOLLARS and CENTS	LF	32,490.000	258
	678	6006		PAV SURF PREP FOR MRK (12") DOLLARS and CENTS	LF	9,810.000	259
	678	6008		PAV SURF PREP FOR MRK (24") DOLLARS and CENTS	LF	228.000	260
	678	6009		PAV SURF PREP FOR MRK (ARROW) DOLLARS and CENTS	EA	18.000	261
	678	6015		PAV SURF PREP FOR MRK (NUMBER) DOLLARS and CENTS	EA	18.000	262
	678	6016		PAV SURF PREP FOR MRK (WORD) DOLLARS and CENTS	EA	18.000	263

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	678	6017		PAV SURF PREP FOR MRK (ENTR GORE) DOLLARS and CENTS	EA	29.000	264
	678	6018		PAV SURF PREP FOR MRK (EXIT GORE) DOLLARS and CENTS	EA	25.000	265
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	10.000	266
	6003	6001		ITS SYSTEM SUPPORT EQUIPMENT DOLLARS and CENTS	LS	1.000	267
	6007	6010		FIBER OPTIC CBL (SNGLE-MODE)(6 FIBER) DOLLARS and CENTS	LF	12,830.000	268
	6007	6013		FIBER OPTIC CBL (SNGLE-MODE)(36 FIBER) DOLLARS and CENTS	LF	123,890.000	269
	6008	6001		EQUIPMENT CABINET (CCTV)(POLE) DOLLARS and CENTS	EA	1.000	270
	6010	6001		CCTV FIELD EQUIPMENT (ANALOG) DOLLARS and CENTS	EA	4.000	271
	6014	6001		MULTIDUCT COND SYS (PVC)(SCHD 40) DOLLARS and CENTS	LF	54,795.000	272
	6014	6002		MULTIDCT COND SYS(PVC)(SCHD 40)4"(BORE) DOLLARS and CENTS	LF	4,100.000	273
	6014	6004		MULTIDUCT CONDUIT SYS (RM)(4") DOLLARS and CENTS	LF	1,795.000	274
	6027	6003		CONDUIT (PREPARE) DOLLARS and CENTS	LF	1,385.000	275

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6027	6004		JUNCTION BOX (INSTALL) DOLLARS and CENTS	EA	1.000	276
	6027	6007		MANHOLE (PREPARE) DOLLARS and CENTS	EA	7.000	277
	6027	6008		GROUND BOX (PREPARE) DOLLARS and CENTS	EA	8.000	278
	6028	6002		INSTALL DMS (FOUNDATION MTD CABI- NET) DOLLARS and CENTS	EA	2.000	279
	6029	6001	001	RADAR VEHICLE SENSING DEVICE DOLLARS and CENTS	EA	9.000	280
	6032	6001		SYSTEM INTEGRATION DOLLARS and CENTS	LS	1.000	281
	6034	6002		RVSD POLE ASSEMBLY (40 FT) DOLLARS and CENTS	EA	1.000	282
	6062	6024		ITS RADIO (SNGL)(5 GHZ)-C-P DOLLARS and CENTS	EA	2.000	283
	6062	6042		RELOCATE ITS RADIO DOLLARS and CENTS	EA	3.000	284
	6062	6043		REMOVE ITS RADIO DOLLARS and CENTS	EA	8.000	285
	6074	6001		COMMUNICATION CABINET DOLLARS and CENTS	EA	8.000	286
	6075	6001		REMOVE AND RELOCATE CAMERA POLE STRCTRE DOLLARS and CENTS	EA	2.000	287

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6079	6001		AUTO PORT SMRT TRF MONITOR SYS DOLLARS and CENTS	DAY	2,280.000	288
	6087	6002		CAMERA POLE STRUC W/CABINET (60 FT) DOLLARS and CENTS	EA	4.000	289
	6088	6001		REMOVE CAMERA POLE STRUCTURE DOLLARS and CENTS	EA	1.000	290
	6089	6001		ETHERNET CABLE AND CONNECTORS DOLLARS and CENTS	LF	325.000	291
	6145	6001		DECOR GROUND MOUNT LIGHT (DOWN- LIGHT) DOLLARS and CENTS	EA	6.000	292
	6147	6002		PASSIVE PAVEMENT SENSOR DOLLARS and CENTS	EA	4.000	293
	6147	6003		SUBSURFACE TEMPERATURE PROBE DOLLARS and CENTS	EA	1.000	294
	6147	6004		SENSOR AND PROBE CABLE DOLLARS and CENTS	LF	1,030.000	295

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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.

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SPECIFICATION DATA

Table 1: Soil Constants Requirements				
Item	Description	Plasticity Index		Note
		Max	Min	
132	Embk(DC) (Type C1)	40	8	1
132	Embk(DC) (Type C2)	25	8	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 423.2.4.1. 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.

Table 2: Basis of Estimate for Permanent Construction					
Item	Description	Thickness	Rate		Quantity
162	Block Sod	N/A	N/A	N/A	23,651 SY
164	Drill Seed (Perm) (Rural) (Clay)	N/A	See Specifications		SY
168	Vegetative Watering (Warm)**	N/A	7	MG/Ac/Day	MG
260	Quick Lime (dry)	8 In		7% by Vol	8,644 Ton
310	Prime Coat (AE-P)GAL	N/A	0.30	Gal/SY	291,258 Gal
341	Hot Mix Asphalt (Ty B)	5 In	110	Lbs/SY/In	10,603 Ton
341	Hot Mix Asphalt (Ty C)	5 In	110	Lbs/SY/In	12,347 Ton
360	Concrete Pavement (CPCD)	13 In	N/A	N/A	318,043 SY
360	Concrete Pavement (CRCP)	13 In	N/A	N/A	272,127 SY
**Adjust for actual field conditions/temperatures as necessary. See Vegetation Establishment Plan Sheet for estimated daily rates.					
Note: <ul style="list-style-type: none"> (1) Quick Lime (dry) weight based on 150 Lbs/CF (2) Asphalt weight based on 110 Lbs/SY/In 					

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Table 3: Basis of Estimate for Temporary Erosion Control Items				
Item	Description	Rate		Quantity
164	Drill Seeding (Temp) (Warm)	See Specifications		968,536 SY
168	Vegetative Watering (Warm)**	7	MG/Ac/Day	844 MG

**Adjust for Actual Field Conditions/Temperatures as Necessary. See Vegetation Establishment Sheet for estimated daily rates.

The Contractor will provide color mockups as shown in the plan for bridge and wall elements to be painted. The Contractor will proceed with painting elements as approved by TxDOT.

GENERAL

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 394 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).

A pre-bid meeting for this project is scheduled for July 20, 2015 and will begin promptly at 2:00 p.m. in Waxahachie.

The meeting will take place at the Waxahachie City Hall, located at 401 S. Rogers Street, Waxahachie, Texas 75165.

Prior to contract letting, bidders may request electronic earthwork information by email.

Area Engineer's Email: Darwin.Myers@txdot.gov

Assistant Area Engineer's Email: John.Kiser@txdot.gov

IH 35E Project Manager: Hal.Stanford@txdot.gov

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

Bidders may also obtain a free electronic copy 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).

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Install traffic marking signs prior to sealcoat application and remove within three days after placement of traffic markings.

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

Provide as-built cable interconnection diagrams and communication network schematics at least 30 days prior to the start of data communications testing.

All materials and services not expressly called for in the specification or not shown in the plans, which may be necessary for complete and proper construction of the "ITS" Network, will be performed, furnished and installed at no cost to the Department.

Contact the TxDOT Freeway Management Office (214-319-3631) at least 48 hours in advance of performing any work on this project that disconnects or reconnects existing TxDOT "ITS" fiber optic cable. TxDOT "ITS" personnel must be on-site while this work is performed. TxDOT "ITS" personnel shall also be on-site while any work is performed in existing satellite buildings, including connection of new fiber ITS.

To minimize "down time" to the Dallas District Traffic Management System, existing wireless ITS communications shall remain in service until fiber ITS communications network has been tested and made fully operational. When existing ITS devices are relocated as part of the project, existing radios and antennae shall also be relocated to maintain communications until fiber ITS is operational. Relocated radios will then be removed and returned to TxDOT DalTrans. Any fiber optic cable relocation and tracer wire installation shall be performed during a single weekend.

The following standard detail sheets have been modified:

SSCB TY 1

Item 2:

Submit pre-letting questions, by email only, to the attention of the Area Engineer, Assistant Area Engineer, and IH 35E Project Manager.

Area Engineer's Email: Darwin.Myers@txdot.gov

Assistant Area Engineer's Email: John.Kiser@txdot.gov

IH 35E Project Manager: Hal.Stanford@txdot.gov

Answers will be provided by email.

In addition, an electronic file containing pre-letting questions and answers will be uploaded to the following site that can be downloaded by using the Login Name and Password as follows:

Website Address: <ftp://ftp.dot.state.tx.us/>

Login Name: dalWaxAO-ro

Password: 33KL45

CSJ: 0048-04-079

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Item 5:

Place survey monuments, provided by the department, at points indicated and as detailed in the plans or as directed. Furnish surface coordinates and the elevation of the set monument and an azimuth from the monument to some prominent physical feature, preferably another survey monument on the project. This work will not be paid for directly, but will be considered subsidiary to the various bid items.

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 Landscape Office (214-320-6636) 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.

Submit all shop drawings, working drawings, or other documents which require review sufficiently in advance of scheduled construction to allow no less than thirty (30) calendar days for review and response.

Locate all utilities, both underground and above ground, in the project area prior to beginning work so that conflicts are avoided.

Provide to the Engineer, in addition to any submittals required by the specifications and elsewhere in the general notes, a list of pre-qualified material to be used on the project.

Item 6:

This project has structure(s) with surface coatings which may contain hazardous constituent(s). Contractor is responsible for the health and safety of his employees and compliance with all OSHA standards and regulations.

Paint containing hazardous materials will be removed by a third party, 10.1.1

Item 7:

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

Perform all electrical work in accordance with the National Electrical Code and Texas Department of Transportation Specifications.

Consult with appropriate electric company representatives according to their respective area to coordinate electrical services installations.

Item 8:

County: Ellis

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This Project will be a Five-Day Workweek in accordance with Article 8.3.1.1.

Nighttime work is allowed in accordance with Article 8.3.3.

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 CPM schedule in P3 or P6 format.

Lane Rental Fees have been established as described in Item 508 in the General Notes.

Table of Milestones

No.	Type	Daily Road Users Cost	Begins	Ends	Duration / Days
1	Disincentive	\$500	When the exit ramp from SB IH 35E Main Lanes to US 287 Business is closed to traffic	When the exit ramp from SB IH 35E Main Lanes to US 287 Business opens to traffic following completion of the work shown in TCP P2S4 and P2S5 in the vicinity of RPS1335	Closure Permitted 32 Days
2	Disincentive	\$500	Each time the exit ramp from SB IH 35E Main Lanes to Brookside is closed to traffic	When the exit ramp from SB IH 35E Main Lanes to Brookside opens to traffic following completion of the work shown in TCP P3S2 in the vicinity of RPS1284	Closure Permitted 24 Days
3	Disincentive	\$500	When the exit ramp from SB IH 35E Main Lanes to Spur 394 and US 77 (south) is closed to traffic	When the exit ramp from SB IH 35E Main Lanes to Spur 394 and US 77 (south) opens to traffic following completion of the work shown in TCP P3S3 in the vicinity of RPS 1126	Closure Permitted 42 Days
4	Incentive/ Disincentive	\$1000	When the bridge or approach roadways carrying Brookside over IH 35E close to traffic	When the new bridge and approach roadways carrying Brookside over IH 35E open to traffic	Closure Permitted 60 Days, 20 Day of Incentive Permitted

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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. 1077+44.91 to Sta. 1656+60.33 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 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 105:

Separate the asphalt pavement from the base material. Stockpile the asphalt and base material at US 287 Business and US 287, east of Waxahachie. Place the asphalt pavement material in a stockpile that meets the dimensions and requirements designated by the engineer.

Stockpile materials in uniform piles up to 15 feet in height unless otherwise instructed. Furnish adequate equipment at the stockpile to keep and leave the materials in a neat and orderly manner.

Properly dispose of unsalvageable material at your own expense.

Item 110:

Excavated shale is not an acceptable material for embankment.

Items 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.

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

Item 132:

Excavated material from the project site has not been determined to be suitable for embankment. The bidder assumes all risk for the use of excavated materials for embankment and is expected to meet all material requirements for embankment regardless of the source.

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Perform Tex-106-E (Plasticity Index) by an approved laboratory on excavated soils from sources outside right of way when used in roadway embankment. Provide the test results at no expense to the department. The engineer will sample and test soils produced by the construction project for specification requirements or material sources specified in the plans.

Earth embankment Type C1 and C2, is 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, treat material with lime slurry in accordance with Item 260, "Lime Treatment (Road-Mixed)" in order to meet these requirements. Use Tex-121-E, figure 1, page 4 to calculate the amount of lime required. When lime treated subgrade is specified, 3000 PPM is the maximum allowed sulfate content in the top 3 feet when material comes from borrow source. Follow recommendations of 260.4.4 for mixing and mellowing. 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 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 160:

Sequence construction operations to salvage topsoil from one location and spread on areas ready to receive topsoil. Keep stockpiling of topsoil to a minimum.

Use fertile clay or loam from the project site not more than two feet below natural grade as topsoil.

Item 247:

Construct uniform layer thickness of 12 inches, or less with the required density and moisture content. Minimum PI is equal to three (3) for all grades.

Item 260:

Furnish and distribute MS-2 smoothly and evenly at the rate of 0.20 gallons per square yard to cure lime, as directed.

Provide Commercial Quicklime Lime Slurry and apply lime by slurry placement method.

Item 301:

Provide liquid antistripping agents unless otherwise directed. Add the minimum dosage determined by the manufacturer or higher dosage determined by design requirement and try subsequent trials at 0.25% increments.

Item 354:

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

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Separate the asphalt pavement from the base material. Stockpile the asphalt pavement at US 287 Business and US 287, east of Waxahachie. Place the asphalt pavement material in a stockpile that meets the dimensions and requirements designated by the engineer.

Stockpile materials in uniform piles up to 15 feet in height unless otherwise instructed. Furnish adequate equipment at the stockpile to keep and leave the materials in a neat and orderly manner.

Properly dispose of unsalvageable material at your own expense.

Item 310:

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

Item 320:

Use a self-propelled wheel mounted MTV capable of receiving mix from the haul trucks, separate from the paver. It shall have a minimum storage capacity of approximately 25 tons. It shall be equipped with a pivoting discharge conveyor and shall completely and thoroughly remix the material prior to placement. The effectiveness of the MTV's remixing ability is subject to the approval of the Engineer. In addition, the paver shall have a surge storage insert with a minimum capacity of 20 tons.

The use of windrow pick-up equipment is allowed except on the first course of roadway material placed over the subgrade.

Item 341:

Tack Coat is required.

Design for a target Laboratory-molded density of 97.0% when using the Texas Gyratory Compactor (TGC) (Tex-204-F, Part I).

Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B for surface courses.

Provide the engineer the opportunity to witness all mixture design tests. The engineer may require a retest if not given the opportunity to witness.

Dilution of tack is not allowed.

Provide PG binder 64-22 in Type B mixture.

Provide PG binder 70-22 in Type C mixture.

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.

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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.

Item 360:

Provide dowel support assemblies in concrete pavement constructed of No. 1/0 (0.306" diameter) wire in the main vertical members. Rigidly support the dowels in parallel positions and weld them on one end to the support frame. Provide weld attachments alternately on opposite ends of successive dowels. The support assembly is subject to approval.

Use of multiple piece tiebars will be required. Provide chairs for multiple piece tiebars, threaded connectors or other adequate devices, used in concrete paving, or tie them to the pavement reinforcing steel. If approved by the engineer for specific areas, in lieu of multiple piece tiebars, drill holes into the pavement and grout straight tiebars in place with epoxy. Use a non-impact, rotary core drill to prevent damage to the pavement unless otherwise directed. Clean the drill holes and then completely fill with epoxy before inserting the tiebar. Do not bend the tiebars or insert them into plastic concrete without the approval of the engineer.

Provide curbs monolithically constructed with the concrete pavement. If continuous monolithic curb has to be temporarily omitted for any reason, provide dowelled curbs in the proposed areas, as detailed in the plans, and apply an approved epoxy resin to the pavement to receive the curb as directed. This work and materials will not be paid for directly, but is considered subsidiary to this item.

If asphalt curing is used, cure the concrete pavement with MS-2.

Stockpile the concrete aggregates at the plant site.

Provide pavement widening joints, as detailed in the plans, at all locations where concrete pavement is placed adjacent to existing concrete pavement. Installation of these joints is not paid for directly, but is considered subsidiary to this item.

Payment for furnishing and installing the pre-molded expansion joint material between the retaining walls and concrete pavement is not paid for directly, but is considered subsidiary to this item.

Provide a curing machine equipped with rubber tires, or other acceptable arrangement, so that the machine will span the pavement and monolithic curb.

Curb transition is paid for as Type 2 curb.

The installation of curb openings is not paid for directly, but is considered subsidiary to this item.

Place construction, sawed and contraction joints in accordance with the pavement detail sheet and as directed. Joint locations, other than as shown on the plans, are subject to approval.

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Pavement leaveouts are required on this project as necessary to provide for traffic at driveways and side streets as shown in the plans or as directed. The cost of providing these leaveouts, including the construction of a suitable crossover connection at each site, is not paid for directly but is considered subsidiary to this item.

If a traveling form paver is used, provide one equipped with an electronically operated horizontal control device.

Use "mechanical steel placing equipment" at the discretion of the engineer.

Provide Class HES concrete at the locations shown on the plans. Design Class HES to meet the requirements of Class P and a minimum average flexural strength of 450 psi or minimum average compressive strength of 3200 psi in 24 hr.

Supply the Engineer with a list of certified personnel and copies of their current ACI certificates before beginning production and when personnel changes are made. Supply hard copies of calibration reports for testing equipment when required by the Engineer.

If more than 30% of an area in any 1000-Ft section of roadway requires grinding, action will be taken by the Contractor to make that 1000-Ft full width section uniform without changing ride quality, compromising quality of pavement and decreasing skid resistance. Approved blasting method or other method approved by the Engineer will be performed at the Contractor's expense.

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.

Item 416:

Drilled shaft foundations will extend a minimum of five feet into rock, at locations where rock is encountered, at a depth less than the drilled shaft lengths as shown on the plans or as directed.

Provide a formed smooth finish for all portions of drill shafts extending above proposed ground. Include cost for this work in the unit bid price for this item.

Pole foundations will be paid for once regardless of extra work caused by obstructions.

All drilled shaft foundations will be based on the lengths shown on the plans or those established in writing. Adequate calculations for measurements of foundations have been made in accordance with Item 9: Measurement and Payment, Article 9.1 of the Standard Specifications. Increases or decreases in the quantities required by change in design will be measured as specified and the revised quantities will be the basis for payment.

Concrete removal required for installation of drilled shafts will be subsidiary to Item 416.

Payment will be made only once for drilling the shaft regardless of the extra work caused by obstructions..

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Item 420:

Mass concrete is a plans quantity item.

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.

BENT NUMBERING:

For bridges with four or more spans, number every third bent (counting the abutments) on the up-station and down-station faces of the outside column(s) at approximately the mid height of the column. For structures with three columns or less per bent, place numbers on column A. Where there are four or more columns per bent, place numbers on both outside columns. Bent numbers shall be as shown on the bridge layout.

Provide block numbers with a height of 6". Place numbers using appropriate die cut stencils and black paint.

All materials, labor and incidentals associated with placing bent numbers are subsidiary to the various bid items.

For bridges with aesthetic treatments, the numbering will be incorporated into the aesthetics package.

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.

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.

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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.

Provide sulfate resistant concrete for box culverts and all drilled shafts. Strength evaluation using maturity testing, Tex-426-A, may be used for all concrete elements except drilled shafts and mass concrete pours.

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:

ELE International ACCU-TEK250 Digital Compression Tester including accessories or Forney F-250EX Standard Compression Machine including accessories or TxDOT approved equal. Supply the Engineer with a list of certified personnel and copies of their current ACI certificates before beginning production and when personnel changes are made. Supply hard copies of calibration reports for testing equipment when required by the Engineer.

Item 423:

For Mechanically Stabilized Earth (MSE) walls, provide a system from one of the following approved suppliers:

Name	Manufacturer	Phone
Reinforced Earth Walls	The Reinforced Earth Company 1331 Airport Freeway, Suite 302 Euless, TX 76040-4150	(817) 283-5503
Reinforced Soil Embankment Walls	Texas Welded Wire, Inc. 645 W. Hurst Blvd. Hurst, TX 76053	(817) 282-4560
Retained Earth Walls	Foster Geotechnical 901 North Highway 77 Hillsboro, TX 76645	(254) 580-9100

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Stabilized Earth Wall	Vist-A-Wall Systems, LLC 650 Justice Lane Mansfield, TX 76063	(817) 507-0200
Strengthened Soil Walls	Lewis Block & Supply Company P.O. Box 480615 Kansas City, MO 64148	(816) 572-6710
Structural Embankment, LLC	Structural Embankment, LLC P.O. Box 2200 Weatherford, TX 76086	(817) 599-5700
Tensor Retaining Wall System	Tensor Earth Technologies, Inc. 2500 Northwinds Parkway Suite 500 Alpharetta, GA 30009	(770) 344-2090
Tricon Retained Soil Walls	Tricon Precast, Ltd. 15055 Henry Road Houston, TX 77060	(281) 931-9832
VP Wall System	Valley Prestress Products, Inc. 1520 Calhoun Rd. P.O. Box 309 Eagle Lake, TX 77434	(956) 584-5701

All retaining walls will have a uniform texture and appearance.

Unless otherwise noted in the plans, the top of the leveling pad is located 2 feet below the proposed ground.

Square foot surface area of retaining wall is measured from the top of retaining wall to the top of the leveling pad. Footing adjustments made to accommodate the available optional retaining walls are not measured.

Unless otherwise shown on the plans, provide Type AS backfill as defined under this item for permanent MSE or concrete block (CB) walls not subject to inundation. Unless otherwise shown on the plans, provide type DS backfill as defined under this item for permanent MSE or CB walls subject to inundation.

Supply drainage aggregate meeting the requirements of this item for use as filter material with the retaining wall.

Cement-Stabilized Backfill (CSB) is not permitted.

Unless otherwise noted on the plans, provide flowable backfill meeting the requirements of Item 401 between the back of panels and inlets or drainage pipes where the required compaction can not be achieved. Flowable backfill used for this purpose is subsidiary to this item.

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Provide earth reinforcements with a minimum length of 8' or longer as required by RW(MSE)-DD. Earth reinforcement length is measured perpendicular to the wall. Adjust skewed earth reinforcements as necessary to obtain required length.

Submit design calculations supporting the details necessary to incorporate coping, railing, inlets, drainage, electrical conduits and any additional necessary features.

The contractor has the option of constructing any of the types of retaining walls for which details and specifications are included in the plans. Footing adjustments made to accommodate the available optional retaining walls are not measured. Regardless of option or options chosen, use the same fascia pattern throughout the entire project, including cast in place full height retaining walls or retaining wall type abutments.

Submit detailed drawings depicting the patterns and matching of precast with cast-in-place for approval.

Unless otherwise shown on the plans, form the map of Texas emblem into a wall panel next to each bridge abutment. Engineer approval of the exact location of each emblem is required. The cost of forming emblems is considered subsidiary to this item. Inset the map of Texas a minimum of 3/4 inch into the face of the panel, and provide a smooth finish with an engineer approved contrasting color.

At contractor's expense, repair all damage to the precast units (such as chips) as required to match the fascia pattern.

Use Embankment Type C2 as non-select embankment backfill as defined under Item 423.2.4.1. For non-select embankment fill behind retaining walls provide and install fill in accordance with Item 132, Type C2.

For cut walls, the backfill between the select fill zone and the existing ground shall be either select material as required for the select fill zone or backfill meeting or exceeding the requirements of Item 132, type C2. Place material in accordance with Item 132, Type C2 requirements. If existing ground is laid back (i.e. not vertical), the lay back shall be done as a series of equal height benches so as to prevent the formation of a smooth surface at the material interface.

Avoid distinct vertical joints between select backfill and embankment (Non-Select) backfill as required by Section 423.3.4. This may be conveniently done by providing a zone of material behind the strap zone (1' min width) in which alternating lifts of select and non-select materials are interlaced.

The finish on all retaining walls will be custom Rock #1104 form liner and will be in accordance with the applicable notes and drawings provided in the aesthetic detail sheets. MSE retaining walls will be paid for under Item 423-6002. Soil nail walls will be paid for under Item 423-6024.

For cast in place walls, cast the top two feet smooth.

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Retaining wall colors are shown elsewhere in the plans.

The Retaining Wall Special item includes all elements to construct the Medallion as shown on the plans, including all appurtenances, master forms, and the light fixture for each Medallion.

Item 425:

Repair "Safety Harness Pole Holes" in beams in accordance with Item 429 prior to placement of the Bridge Slab. This work is considered subsidiary to the various bid items.

Item 427:

Finish concrete structures surface area I with an opaque sealer of the color(s) shown elsewhere in the plans in accordance Item 427.

Apply a 4-SF sample of each color on the project surfaces for approval. Adjust color as required by Engineer to compensate for surroundings and natural lighting conditions on the project site.

Ensure that surfaces are free of weak surface material, curing compounds and other surface contaminants prior to coating.

FORM LINER FINISHES: Place architectural concrete treatments as shown. Placement is subsidiary to this item.

Provide form liners that release without leaving pieces of liner material on the concrete and without pulling or breaking concrete from the textured surface. Provide form release agents as recommended by the manufacturer. Replace form liners as directed that have become damaged or worn. Replacement of form liners is considered incidental to the work and no additional compensation is provided.

No horizontal splices in the form liner are permitted. Vertical splices may occur only in valleys between fractured ribs.

Provide sample panels a minimum of ten days in advance of starting construction of the textured concrete surfaces. Construct sample panel(s) in accordance with Item 427.4.3.5 "Form Liner Finish" using each type of approved form liner. Sample panels must meet the requirements of the plans and specifications and be approved before any construction form liners may be ordered, obtained or used. Provide panels having a textured portion at least 5'-0" by 5'-0" with a representative un-textured surrounding surface. If directed, construct and finish additional test panels until a satisfactory concrete surface texture is obtained.

The approved sample panel is the standard of comparison for the production concrete surface texture. If directed, build a new test panel to demonstrate acceptability of any proposed change in construction method.

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Tool or replace areas requiring surface treatment that do not match their associated sample panels. Upon completion, tooled or replaced panels must match the associated sample panel. Tooling or replacement is at the contractor's expense.

For proper placement of the expansion joint behind the rail, omit surface finish from the top of T551 (RW) (DAL) rail to bottom of panel as directed.

Joint reveal details and location may vary slightly from what is shown to match the adjacent MSE walls as directed. No additional compensation will be allowed.

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, X-Beams and TX Girders), Z-bars (boxes), and H-bars (Slab beams) are not required to be epoxy coated.

For bridge widening, existing uncoated reinforcing in the slab exposed during slab removal shall receive an abrasive blast cleaning followed closely by an application of BASF Emaco P25, Sika Armatec 110 EpoCem or Euclid Duralprep A.C. Perform all work in accordance with manufacturer's specifications. Cleaning and coating operations must be performed no more than 7 days prior to placement of the concrete. In the event more than 7 days is required between initial coating and slab placement, the contractor shall apply a second coat of the same material used initially to the bars approximately 1 day prior to placement of the concrete. This work is considered subsidiary to the various bid items.

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 441:

Submit erection drawings for rolled-beam units.

Item 442:

Use temperature Zone 1 for CVN testing.

Item 446:

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

Item 451:

Complete construction of the retrofit rails during the first 19 months of the project.

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Following placement of PCTB at any location, continuously prosecute the work to completion, remove temporary traffic control, and return the bridge to normal operation.

After all concrete placement has been completed, remove any concrete or other contaminate from the beam by hand cleaning methods so as not to damage the primer and then water blast / wash with a minimum of 2,500 psi pressure.

Item 449:

Use Crouse Hinds TL-2, OZ/Gedney Stl, Thomas & Betts Kopr-Shield or other approved electrically conducting lubricant compound.

Item 464:

The concrete collars and the connections of pipes to existing or proposed concrete boxes or pipe will not be paid for directly but will be considered subsidiary to the various bid items.

At locations where storm drains dead-end, plug with a concrete plug of a thickness equal to 1 ½ inches per foot of diameter of pipe with a minimum thickness of 3 inches. The cost of the plugs shall be included in the unit price bid per foot of the various storm drain pipes.

Item 471:

Tackweld all inlet grates and manhole covers to the frame with two 1-inch welds. Supply unpainted cast iron inlet grate and frame and/or cast iron manhole frame and cover.

Item 479:

Accept ownership of inlet grates and manhole covers and properly dispose of them outside the limits of the right of way in accordance with federal, state and local regulations.

Submit a plan detailing proposed methods of handling phased construction at manholes and water valves.

Payment for the phase construction will be considered subsidiary to this item.

Item 496:

Concrete pavement removed as a result of removing the inlets will not be paid for directly but will be considered as subsidiary to Item 496.

Inlet grates and manhole covers become the property of the contractor for disposal.

Item 500:

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

Item 502:

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.

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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.

Provide a person on the project at all times (24 hours/day, 7 days/week) to patrol, monitor, and maintain the traffic control devices and signs. The person must be knowledgeable of TxDOT Guidelines for traffic control devices and signs.

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 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.

Provide shadow vehicles equipped with truck mounted attenuators as shown on the traffic control plan.

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.

Additional lanes may be closed during Off Peak Times or Lowest Times with written permission of the Engineer. Lane Closures during Off Peak Times may be started earlier or be extended later with written permission of the Engineer.

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Traffic Control Plans with Lane Closures causing backups of 20 minutes or greater in duration will be modified by the Engineer.

Use the Barricade and Construction "BC" and Traffic Control Plan "TCP" standard plan sheets included in these plans and the "2011 Texas Manual on Uniform Traffic Control Devices" as the Traffic Control Plan (TCP).

Use sheeting types for barricades as detailed on the BC standards.

Temporary single-lane closures on mainlanes are permitted with advance approval from the engineer during Time Periods B and C as shown in the following table. Lane rental charges will be assessed as shown and in accordance to the Special Provisions to Item 008.

Advance approval of the engineer is required for full lane closures during Time Period C.

Lane closures are not permitted during Time Period A. The lane rental charges shown in the table for Time Period A do not either explicitly or implicitly show any concurrence for closing lanes during Time Period A.

Advance notice of a minimum of 1 week is required.

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**IH 35E in Waxahachie
Hourly Traffic Volumes**

Northbound IH 35E Main Lanes				
	Sun	Mon- Thu	Fri	Sat
0:00	C	C	C	C
1:00	C	C	C	C
2:00	C	C	C	C
3:00	C	C	C	C
4:00	C	C	C	C
5:00	C	C	C	C
6:00	C	A	A	C
7:00	C	A	A	C
8:00	C	A	A	B
9:00	B	B	B	B
10:00	B	B	B	B
11:00	B	B	B	A
12:00	A	B	B	A
13:00	A	B	A	A
14:00	A	B	A	A
15:00	A	A	A	A
16:00	A	A	A	A
17:00	A	A	A	A
18:00	A	A	A	A
19:00	A	A	A	A
20:00	A	B	A	A
21:00	A	C	B	B
22:00	A	C	B	B
23:00	B	C	C	C

Southbound IH 35E Main Lanes				
	Sun	Mon- Thu	Fri	Sat
0:00	C	C	C	C
1:00	C	C	C	C
2:00	C	C	C	C
3:00	C	C	C	C
4:00	C	C	C	C
5:00	C	C	C	C
6:00	C	B	B	C
7:00	C	B	B	B
8:00	B	B	B	B
9:00	B	B	B	A
10:00	A	B	A	A
11:00	A	B	A	A
12:00	A	B	A	A
13:00	A	B	A	A
14:00	A	B	A	A
15:00	A	A	A	A
16:00	A	A	A	A
17:00	A	A	A	A
18:00	A	A	A	A
19:00	A	A	A	A
20:00	B	B	B	B
21:00	B	B	B	B
22:00	C	C	C	C
23:00	C	C	C	C

- Time Period A: No lane closures
- Time Period B: Single lane closure permitted with engineer approval
- Time Period C: Single lane closure permitted, and full closures possible, with engineer approval

NBML/SBML Liquidated Damages/Lane Rental Fees			
	A	B	C
0 Lanes Closed	\$0	\$0	\$0
1 Lane Closed	\$2,000	\$0	\$0
2 Lanes Closed (Full Closure)	\$25,000	\$10,000	\$0

County: Ellis

Highway: IH35E

Item 504:

Furnish one Laboratory (Type A) for this project.

Provide Type E Structure to include: (1) One Field Office with a minimum 1800 sq. ft. of gross floor area in rooms 8 ft. high. Partition the floor area into at least 4 interconnected rooms (two private offices and two group areas) with doors, 2 exterior doors, and at least 2 windows in each room. (2) One Field Laboratory at the field office site, meeting the requirements of a Type A Structure. (3) One Field Laboratory at the concrete batch plant, meeting the requirements of a Type A Structure.

Provide an all-weather parking area for the sole use of at least 20 Engineer vehicles.

Enclose the field office and the parking area with a 6-ft. chain-link fence, a top-mounted 3-strand barbed wire, and a 12-ft. gate; or other acceptable security measures approved by the Engineer.

Provide internet connectivity throughout the field office, a printer/fax/scan/copier, and one local telephone line to the field office. Supply one phone jack and one telephone in each room in the field office.

Item 506:

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 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 reposting (for replacement or as needed to ensure readability) will be subsidiary to Item 502.

CSJ: 0048-04-079

County: Ellis

Highway: IH35E

SP 506-004

Temporary Erosion, Sedimentation, and Environmental Controls – Identifies contractor-required training for storm water management. *Required for all projects utilizing 2014 SP 506 beginning with the November 2014 letting. (2004 SP 1122-001).* Statewide Use. Display to Web. Required.

Item 508:

Testing of materials used in the construction of a temporary detour may be waived when approved by the Engineer.

The following edge conditions must be maintained throughout the project.

Do not leave any uneven pavement, within four feet of travel lanes, longer than 48 hours.

Do not leave any edge drop-off, within 10 feet of travel lanes, longer than 48 hours.

Do not leave any edge drop-off, 10 feet or more from travel lanes, longer than one week.

Ten feet or more from travel lanes, place "Detour 1" hot-mix within one week of excavation or provide temporary 3:1 slope with stable, compacted material.

Item 512:

The contractor to utilize the existing F-Shape Barriers along southbound IH 35E for this project.

Pre-cast barriers from the designated source are to be picked up from TxDOT's Waco District and delivered to the project site by The Contractor. The designated source yards are located at:

IH 35E at County Road 3102 south of Abbott, TX (60,060 LF)

SH81 at Spur 579 intersection in Hillsboro, TX (5,940 LF)

4568 Bellmead Dr, Bellmead, Texas (Balance)

The cost for all hardware and labor to install portable traffic barrier from the designated source is subsidiary to Item 512.

The contractor will deliver all portable traffic barriers remaining at the end of the project to the TxDOT Dallas District stockpile yard located at US 287 BUS and US 287 east of Waxahachie.

Item 514:

Provide High Performance Concrete (HPC) and epoxy coated reinforcing for all Permanent Concrete Traffic Barrier located on bridge approaches or bridge slabs.

Item 529:

Provide grooved joints at 10-foot intervals and $\frac{3}{4}$ inch expansion joint material for doweled curb at the same locations as on the existing pavement.

For Curb and Gutter sections, provide grooved joints at 10-foot intervals and $\frac{3}{4}$ inch expansion joint material at a maximum of 50-foot centers and at all radius points and inlets.

Curb and Gutter transitions will be paid for by the foot at the unit price for the corresponding curb or curb and gutter section.

Saw joints at the same location as on the existing pavement.

County: Ellis

Highway: IH35E

Item 530:

Provide Class "HES" concrete for concrete intersections and driveways listed or shown on the plans.

Item 540:

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

Item 542:

Accept ownership of metal beam guard fence removed from this project, and dispose accordance with federal, state, and local regulations.

Item 545:

Stockpile crash cushion attenuators at 900 E Jefferson, Waxahachie, Tx.

Item 556:

Place bell and spigot type pipe with an open joint of approximately $\frac{3}{4}$ inch.

In the event that Type 5 Underdrain is bid, make the connection as shown in the plans. The cost of making the connection will be considered subsidiary to this item.

The requirements for decantation of filter material are deleted for this project.

Item 585:

Use Surface Test Type A on all intersections and driveways.

Use Surface Test Type B pay adjustment schedule 2 on the travel lanes.

Use Surface Test Type B pay adjustment schedule 3 on the service roads.

Use Surface Test Type B pay adjustment schedule 2 on the ramps.

Item 610:

Complete lighting in the initial stages of construction. Make every effort to keep the jobsite lit for the duration of the project. Do not de-energize existing lighting before new lighting is operation without prior approval.

Use 480 volt electronic LED drivers for luminaires on this project.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-11 (Roadway Illumination Poles -2011). Poles fabricated according to RIP-11 require no shop drawings. Alternate designs to RIP-11 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

Existing illumination circuits may be located within or adjacent to the project limits. Either verify with the Engineer or supply a video survey to the Engineer of all the lighting in and adjacent to the project limits before beginning work. Ensure that all assemblies operational at the beginning of construction are operational at the completion of the project. This work will be done at the contractor's expense.

CSJ: 0048-04-079

County: Ellis

Highway: IH35E

Item 618, 6014:

Structurally mount junction boxes as shown on the plans.

Use conduit hangers for 3 inch and larger conduit when hanging conduit from structures.

Furnish and install a non-metallic mule tape in "Illumination" conduit runs in excess of 50 feet. Also furnish and install non-metallic mule tape in conduit installed for future use and cap using standard weather-tight conduit caps, as approved. Furnish Garvin # PT-1250-3K, ComStar PUL 1250P3K, Ideal Part No. 31-315 or equal as approved by the Engineer. This work will not be paid for directly, but is subsidiary to this Item.

Use a colored cleaner-primer on all PVC to PVC joints before application of PVC cement.

Seal all conduit ends with a permanently soft, non-toxic duct seal. Use a duct seal that does not adversely affect other plastic materials or corrode metals.

When using existing conduit, ensure that all conduits have bushings and are cleaned of mud and debris. This work will not be paid for directly, but is subsidiary to this Item.

2" Schedule 80 PVC will be used at the power pole to supply electricity to underground services.

The location of conduits and ground boxes are diagrammatic only and may be shifted to accommodate field conditions as directed.

Secure permission and approval from the proper authority prior to cutting into or removing any sidewalks or curbs for installation of this Item. After the work is completed, the Contractor shall restore any curbs or walkways, which have been removed, to their original condition and to the satisfaction of the engineer.

"ITS" conduit shall be installed a minimum of 42 inches deep, when trenching methods are used, and a minimum of 60 inches deep when bored under existing pavement, unless shown otherwise in the plans.

When trenching through rocky soil, place non-concrete encased "ITS" conduit on a two-inch sand cushion and backfill with a minimum of six inches of sand.

Where a trench is cut through the surfaced parking shoulder, median or driveways for laying conduit, the base and surfacing will be replaced with similar materials equal in appearance and quality to the original construction.

The minimum bending radius for all conduits supplied on this project shall be 18 inches, or as approved.

Place conduit under existing pavement by an approved boring method. Do not place boring pits closer than 2 feet from the edge of the pavement unless otherwise directed. Do not use water jetting. When conduits are bored, do not exceed 18 inches in the vertical and horizontal tolerances as measured from the intended target point.

County: Ellis

Highway: IH35E

Do not use a pneumatically driven device for punching holes beneath the pavement (commonly known as a "missile").

When holes are drilled through concrete structures, use a coring device. Do not use masonry or concrete drills.

Install a permanent non-metallic pull cord, with a minimum tensile strength of 600 pounds, in all new "ITS" conduits. For conduits installed for future use, plug conduits using a mechanical conduit plug. Ensure that the mechanical plug creates a water and airtight seal. This work will not be paid for directly but will be subsidiary to this item.

Existing conduit may be proposed for reuse in this project. Conduit prep will be paid for under Item 6027 or as directed by the Engineer. If the existing conduit cannot be used, repair or replace this conduit as directed.

If the Contractor chooses to combine multiple conduits into one bore, the Contractor will install a casing around the conduits. The casing will not be paid for directly, but will be considered subsidiary to this item.

Install "ITS" conduits in stages to accommodate phased construction. Cap the ends of conduits to prevent obstructions.

Secure PVC conduit permanently using solvent cement joint compounds, commonly known as solvent welding. Perform cementing of the joints in accordance with standard construction practices, as well as the manufacturer's recommendations for their particular product. Ensure that the resulting joints have sufficient strength and tightness to withstand the procedures required for concrete encasement, as shown on the plans, or as directed. Ensure that the resulting joints are secured without breakage, leakage, or permanent deformation.

Use a pre-manufactured duct spacing system, such as Carlon "Snap-N-Stack" spacers, Underground Devices "Wunpeece", or an approved equal, as a preferred method to secure and support conduit prior to encasement, as required in Item 618: Conduit, Article 618.3.

Mark all "ITS" conduit runs by means of a white delineator marker at 1/3 points between ground boxes, and at locations where the conduit makes directional changes, or as directed. The type of delineator must be approved. This work will not be paid for directly, but will be considered subsidiary to this item.

Supply "Underground Utility" and "Fiber" warning stickers as approved by the engineer. One sticker will be placed on each side of the delineator. The cost of the warning stickers and any work required will not be paid for directly, but will be considered subsidiary to this item.

Install, for each "ITS" conduit run, a metallic underground warning tape, as detailed in the plans. This warning tape will be imprinted with "CAUTION BURIED FIBER OPTIC CABLE." This will not be paid for directly, but will be considered subsidiary to Item 618: Conduit. The warning tape does not need to be installed when conduit is bored under a roadway section or landscaped area. At locations where the Contractor chooses to bore conduit underground, in areas where trenching methods can be used, the Contractor will install the metallic underground warning tape.

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County: Ellis

Highway: IH35E

Items 620, 6007:

The equipment grounding conductor shall be a bare wire or identified with continuous green colored jacket insulation. Grounded conductors (Neutral) shall be identified by a continuous white colored jacket. Ungrounded conductors (Hot) in a 120/240v system shall be identified by each pole or leg. For 240-volt branch circuit fed from 120/240 source, ensure one leg is identified by a continuous black colored jacket and the other leg by a continuous red colored jacket. White phasing tape is not allowed to be used to signify a neutral on any conductor 6 AWG and smaller as per TxDOT specifications and the NEC.

Extra cable length will be included in each run, to provide adequate slack, at each ground box, camera pole, communications hub, dynamic message sign, or radar vehicle sensing device, as determined.

All communication cables will be color-coded consistently, or permanently labeled, between all connections and splices, to ensure immediate identification. The Contractor will submit a chart or list identifying all cables, in a logical and sequential manner prior to installation, for the Engineer's approval.

The single mode fiber optic cable will be installed continuous, without splices, from the communications hub to hub, as indicated in the plans, or as directed. No splicing of fiber optic cable will be permitted in ground boxes.

All fiber optic trunk cables and the insulated tracer wires will be installed in multiduct conduit. Electrical conductors will be installed in one three-inch conduit and any non-fiber communications cables are to be installed in the second three-inch conduit.

Insulated tracer wire shall have Orange colored insulation and shall be labeled as a "Tracer Wire" in each Satellite Building, Hub Cabinet, and CCTV Cabinet with one exception: CCTV Cabinets located near Hub Cabinets.

All fiber optic pigtails, patch cords, and patch panels shall have ST connectors and will not be paid for separately and shall be considered subsidiary to item 6007.

The Contractor will install and leave coiled, at the base of the LED Dynamic Message Sign structure, a minimum of 30 feet of electrical conductors, fiber optic cable, and communication cable for the selected DMS vendor's use when installing the signs. The ends of all cables and conductors will be taped and protected, as required by the National Electric Code, and TxDOT Standard Sheets.

For both transformer and shoe-base type illumination poles, provide double-pole breakaway fuse holder as shown on the Texas Department of Transportation (TxDOT) - Construction Division's (CST) materials producers list. Category is "Roadway Illumination and Electrical Supplies." Fuse holder is shown on list under Items 610 & 620. Provide 10 amp time delay fuses.

Item 624:

All "ITS" ground boxes will be constructed with aprons.

Submittal literature will be provided to the Engineer prior to installation.

County: Ellis

Highway: IH35E

Concrete removal required for installation of ground boxes will be subsidiary to Item 624.

Each Type A or D ground box shall be installed 12 inches below grade and covered with excavated material. The Contractor will be responsible for providing the latitude and longitude of each ground box. This work will not be paid for directly, but is subsidiary to this Item.

Each Type 1 or 2 ground box that contains non-tracer power conductors shall have its lid tack-welded shut at the completion of work in the ground box. Tack-welding shall be done in 2 inch strips (with 4 inch gaps) along the outer edge of the lid. This work will not be paid for directly, but is subsidiary to this Item.

Slack illumination conductors required by Standard Sheet ED(3)-14 will be subsidiary to Item 624.

Item 628:

Contact the appropriate utility company during the first three weeks of the project lead-time period to allow adequate time for any necessary utility adjustments, transformer installation, etc.

The Meter Base or Transocket shall be mounted facing the roadway and the service enclosure shall be mounted on the opposite side of the pole from the Meter Base or Transocket on all types of poles, Granite Concrete, Timber Pole or Steel Pole.

Label the service enclosures indicating service address as well as all required information as shown on the Electrical Detail (ED) standard sheets. Labeling shall be silk screening or other acceptable method. This work will not be paid for directly, but is subsidiary to this Item.

A Licensed Master Electrician shall be required to install all electrical services.

Bill the electrical service power usage for "ITS" to the Texas Department of Transportation.

Bill the electrical service power usage for aesthetic lighting to the City of Waxahachie.

Item 636:

Leave the advance guide sign and/or the exit direction sign for an interchange in place at all times unless prior written approval is given. Replace signs removed by the Contractor before the end of the work day.

Manufacture all white legends using Clearview font on overhead and large ground-mounted guide signs. This includes destinations, cardinal directions, exit information and exit numbers. Use the font shown on the current standard sheets for all route markers (including interstate shields) and "Exit Only" panel information. Letter, arrow, and number heights shall all conform to the latest edition of the Standard Highway Sign Design Manual.

Provide two (2) sets of shop drawings for signs. The shop drawings shall conform to the details shown on the plans. The shop drawings shall show the details of the panels, wind beams, stiffeners, joint backing plates, splices, joint backing plates, splices, fasteners, brackets, and sign support connections. The shop drawings shall show letter types and sizes, interline spacing and message arrangements.

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Affix a sign identification decal to the back of all signs and mark out the installation date in accordance with Item 643.

Attach sheeting applied to extruded aluminum panels to each individual extrusion.

Install new overhead signs tilted "down" at 3° if the structure has existing signs that not to be replaced. Otherwise the 3° bracket is not required. The 3° bracket will be mounted directly to the back of the sign and then to the truss. Furnish and obtain approval of all shop drawings detailing the method to accomplish this installation. All material and labor required for this special installation is considered subsidiary to Item 636.

Ensure the minimum vertical clearance, as shown in the plans, at the highpoint of the roadway after the installation of all overhead signs. Mount new overhead signs with 46% of the sign height positioned below the centerline of the truss, or obtain approval for any exceptions.

Place new guide signs on existing overhead sign structures and bridge rail supports. Existing attachment hardware may be reused if position of sign meets the 46% mounting criteria and if the existing hardware is large enough to accommodate the new sign. Sign support brackets may be cut or removed as directed; however do not extend or lengthen existing brackets. Furnish any additional sign attachment hardware, support brackets, etc. as required. Payment will not be made for the additional brackets, but is considered subsidiary to this Item.

All additional hat signs and plaques mounted to the top of signs shall be supported with wind beams 2.5 times the height of the sign and/or plaque.

Disconnect and isolate any existing electrical power supply prior to removal of the sign lights. Disconnect all sign lighting fixtures on overhead sign structures at the service poles and remove the service poles where indicated on the plans. Abandon associated conduit as directed at these locations. Contact the appropriate power company and close the accounts at these locations. Notify the TxDOT signal shop at (214)320-6682 when the accounts have been closed and remove the meters at these locations and deliver them to the TxDOT signal shop. Remove existing sign lights and walkways on all sign structures and bridge mounted signs within the project limits.

Item 644:

Prior to taking elevations to determine lengths for fabrication of sign posts, obtain verification of all proposed locations.

All sign mounts shall have a clamp base system for all small roadside sign assemblies.

A 3 inch strip of red reflective sheeting shall be placed on all Do Not Enter sign assemblies. This sheeting shall be placed directly below the Do Not Enter sign for the entire length of the sign post facing wrong way traffic. This work will be considered subsidiary to Item 644.

Items 644, 647, and 650:

The post lengths shown on the Summary of Large Signs are approximations only. After the "X" dimensions are determined, submit actual post lengths to the Engineer for approval. Post lengths and size shall be approved by the Engineer before fabrication.

County: Ellis

Highway: IH35E

Torque the anchor bolts for only the Exit Gore signs to 60 foot-pounds.

Item 650:

The DMS sign support structure locations shown on the plans may be adjusted to fit field conditions. The tower heights shown on the plans are to be used for bidding purposes only. Prior to fabrication, the Contractor, in cooperation with the Engineer, will take finished grade elevations at the tower locations and will determine their exact height for fabrication, in accordance with the details shown on the plans.

All sign support quantities, pipe and structural steel, will be based on the dimensions shown on the approved shop drawings, or those established in writing. Calculations for measurement of the sign support quantities will be made from the approved shop drawings, in accordance with Item 9: Measurement and Payment, Article 9.1, of the Standard Specifications. Increases and decreases in quantities by change in design, after the shop drawings are approved, will be measured as specified, and the revised quantities will be the basis for payment.

Provide field galvanizing equipment, ASTM A780 (Stick only) or approved alternatives, at all times. Make repairs to galvanized surfaces according to the above specifications, at locations where damage has occurred.

All towers and trusses will be matched and marked for erection by the fabricator.

After the sign supports, with signs attached, have been erected, individual units requiring cleaning will be washed with a cleaning solution. The cleaning solution will be capable of removing all grease, oil, dirt smears, streaks, and other foreign particles.

Probe for utilities and underground structures prior to drilling foundations. Foundations shall be paid for once regardless of extra work caused by obstructions.

Item 654:

Provide a continuous 48 inch wide sign walkway on the overhead 'T' mount LED Dynamic Message Sign structure as shown on the plans, or as directed.

The type of sign walkway will be specified on the plans and will be paid for on a per linear foot basis.

Item 666:

Use 6" lane lines and 4" edge lines for controlled access roadways.

Item 672:

White adhesive will be used on concrete pavements.

Item 677:

A water blasting method approved by the Engineer will be the only method allowed for the removal of permanent and temporary pavement markings except on a sealcoat surface. A 2 foot wide sealcoat will be required on sealcoat surfaces to eliminate permanent and temporary pavement markings.

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Item 6003: ITS System Support Equipment

The following items will be provided to TxDOT to be used as operational support equipment. This equipment will be the same make and model as the equipment installed in the field. These items will be paid for with the lump sum unit bid price for system support equipment.

(1 Ea) - CCTV Field Equipment (complete set to include camera, pressured camera housing, zoom lens, pan/tilt unit, camera control receiver, and camera control cable)

(1 Ea) – Radar Vehicle Sensing Device (complete system to include an RVSD unit, all mounting hardware and cabling necessary to provide communications and power from the pole mounted cabinet)

(2 Ea) – 5 GHz Ethernet Radio Link (1 Base Unit, 1 Subscriber Unit)

(1 Ea) – Communication Hub Cabinet

Item 6008: ITS Field Equipment Cabinet

RVSD equipment cabinet shall meet the requirements for a CCTV cabinet.

Item 6010: CCTV Field Equipment

The cables and harnesses will enter at the bottom of the CCTV housing. The CCTV will have gaskets, at entry points, to prevent moisture entry.

Item 6027: Preparation of Existing Conduits, Ground Boxes, or Manholes:

The Contractor is responsible for damage done to existing cable during the preparation of existing conduit. The Contractor will repair or replace damage done to existing cables. The repairing or replacing of damage to existing cables will be done at the expense of the Contractor, and to the satisfaction of the Engineer.

Item 6028: Installation of Dynamic Message Sign System:

Two 12 inch Yellow LED flashing beacons shall be installed and made operational on each DMS installed on this project. The beacons are included with the DMS and shall be configured to flash alternatively.

The LED dynamic message signs installed on this project shall be configured to operate using the existing master controllers located at DalTrans. Prior to completion of this project, the Contractor shall demonstrate complete operability of all DMS's installed on this project at the DalTrans Traffic Management Center.

If communication cannot be achieved from the DMS to DalTrans, due to existing fiber or telephone transmission or hardware issues, on items not provided by the Contractor, then the Contractor will, at a minimum, demonstrate local communication directly to the DMS.

The Contractor will ensure that, during construction, the attachment of the DMS to the truss structure will not interfere with the structure bolt heads.

Provide communication cables between the DMS and the DMS controller cabinet for the operation of the sign.

County: Ellis

Highway: IH35E

Provide local warehouse storage for all DMS's to be installed on this project from the time of delivery by the manufacturer to the time of final installation. Assume responsibility for all sign components during receiving, storage, transport, and final installation, as required in Item 6: Control of Materials, Article 6.6 and 6.7.

Item 6034: RVSD Pole Assembly

RM conduit from the bottom of the equipment cabinet to the ground connection to PVC conduit is considered subsidiary to this item.

Item 6074: Communication Cabinet

The equipment cabinet shall be located as shown on the plans or as directed, and will contain the following subassemblies:

1. Three point latch and lock system
2. 19 inch rack

All terminal blocks will be low profile nickel plated copper alloy with stainless steel captive screws. Insulating material will be molded glass reinforced thermoplastic engineering resin. Jumper bars will be hard rolled copper plated to prevent corrosion and unable to be removed from terminal block. Current and voltage ratings will be 30 amps and 600 volts.

Item 6087: Camera Pole Structure with Cabinet

Mount the CCTV equipment cabinet to the camera pole structure as shown on the plans.

RM conduit from the bottom of the equipment cabinet to the ground connection to PVC conduit is considered subsidiary to this item.

Aesthetic Illumination:

Item 610: Installation of aesthetic light pole assemblies will be paid for under Item 610-6116 at locations shown in the plans. The aesthetic light pole assemblies will be provided by others and delivered to the project site by the supplier. Install the aesthetic light poles and pole assemblies per manufacturer's recommendation and as shown in the plans. All hardware required to install the aesthetic light pole assemblies will be provided by the supplier.

Item 6145: This item pays for the installation of decorative ground mounted lighting assemblies at locations shown in the illumination plans and shall be in conformance to the details shown on the sheet "Bridge and Logo Lighting Details".

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