

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 2

**DATED 6/02/2016**

<b>Control</b>	<b>0275-01-177, ETC.</b>
<b>Project</b>	<b>NH 1602(189), ETC.</b>
<b>Highway</b>	<b>IH 40</b>
<b>County</b>	<b>POTTER</b>

Ladies/Gentlemen:

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

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

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

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

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

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

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: NH 1602(189)

CONTROL: 0275-01-177

COUNTY: POTTER

LETTING: 06/07/2016

REFERENCE NO: 0601

**PROPOSAL ADDENDUMS**

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\_\_\_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 2-23, 5-23 THRU 23-23 )

X GENERAL NOTES (SH. NO.: H )

\_\_\_ SPEC LIST (SH. NO.: )

\_\_\_ SPECIAL PROVISIONS: )

ADDED:

DELETED:

\_\_\_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: SEE CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

BID INSERT 2-23 - REVISED QUANTITIES FOR ITEM 110-6001 AND ITEM 132-6004

BID INSERT 5-23 - REVISED TO ADD ITEM 423-6003

BID INSERT 12-23 - REVISED ITEM 610-6315 TO ITEM 610-6267

BID INSERTS 5-23 THRU 23-23 - MAY HAVE SHIFTED DUE TO ABOVE CHANGES

GENERAL NOTES SHEET H - REVISED NOTES UNDER ITEM 421 - 3RD NOTE INCLUDED

CLASS S, REPLACED 4TH NOTE USE OPTION 5 FOR MIX DESIGN FOR CLASS C AND S

PLAN SHEET 3 INDEX OF SHEETS - OMMITED SHEET 492

PLAN SHEET 13D - GENERAL NOTES - REVISED NOTES FOR ITEM 421 DUE TO ABOVE CHANGES

PLAN SHEETS 13D THRU 13H - REVISED DUE TO SHIFTING OF TEXT FROM ABOVE CHANGES

PLAN SHEETS 13I THRU 13N - REVISED DUE TO ABOVE CHANGES

PLAN SHEET 14 - REVISED DUE TO ABOVE CHANGES

PLAN SHEET 16 - REVISED DUE TO ABOVE CHANGES

PLAN SHEET 31 - REVISED DUE TO ABOVE CHANGES

PLAN SHEET 68 - REVISED TO ADD SIGN

PLAN SHEET 73 - REVISED TO ADD SIGN

PLAN SHEETS 82 THRU 85 AND 103 - REVISED TO SHOW CALLOUTS FOR LIMITS OF TEMP RETAINING WALLS

PROJECT NH 1602(189) , ETC.  
 COUNTY POTTER

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.				
	104	6001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	14,825.000	1
	104	6009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	1,928.000	2
	104	6011		REMOVING CONC (MEDIANS) DOLLARS and CENTS	SY	985.000	3
	104	6015		REMOVING CONC (SIDEWALKS) DOLLARS and CENTS	SY	1,387.000	4
	104	6017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	2,765.000	5
	104	6021		REMOVING CONC (CURB) DOLLARS and CENTS	LF	12,733.000	6
	104	6022		REMOVING CONC (CURB AND GUTTER) DOLLARS and CENTS	LF	14,584.000	7
	104	6023		REMOVING CONC (CTB) DOLLARS and CENTS	LF	3,230.000	8
	104	6025		REMOVE CONC (WINGWALL) DOLLARS and CENTS	CY	.800	9
	104	6027		REMOVING CONC (APPR SLAB) DOLLARS and CENTS	SY	395.000	10
	104	6037		REMOVE CONC (RAIL) DOLLARS and CENTS	LF	19.000	11
	104	6039		REMOVE CONC (ABUTMENT BACKWALL) DOLLARS and CENTS	CY	1.100	12

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	105	6091		REMOVING STAB BASE & ASPH PAV (8"-12") DOLLARS and CENTS	SY	9,057.000	13
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	56,442.000	14
	110	6003		EXCAVATION (SPECIAL) DOLLARS and CENTS	CY	151.000	15
	132	6004		EMBANKMENT (FINAL)(DENS CONT)(TY B) DOLLARS and CENTS	CY	39,006.000	16
	164	6027		CELL FBR MLCH SEED(PERM)(URBAN)(CLAY) DOLLARS and CENTS	SY	45,969.000	17
	164	6031		CELL FBR MLCH SEED(TEMP)(COOL) DOLLARS and CENTS	SY	45,969.000	18
	169	6001		SOIL RETENTION BLANKETS (CL 1) (TY A) DOLLARS and CENTS	SY	45,969.000	19
	247	6264		FL BS (CMP IN PLC)(TY A OR B GR4)(10") DOLLARS and CENTS	SY	38,063.000	20
	247	6421		FL BS(CMP IN PLC)(TY A,B, OR D GR4)(6") DOLLARS and CENTS	SY	50,138.000	21
	260	6004		LIME (QUICKLIME (DRY)) DOLLARS and CENTS	TON	1,259.000	22
	260	6006		LIME TRT (EXST MATL) (6") DOLLARS and CENTS	SY	93,588.000	23
	275	6001		CEMENT DOLLARS and CENTS	TON	2,112.000	24

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	275	6003		CEMENT TREAT (NEW BASE) (6") DOLLARS and CENTS	SY	50,138.000	25
	275	6031		CEMENT TREAT (NEW BASE) (10") DOLLARS and CENTS	SY	38,063.000	26
	310	6009		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	21,290.000	27
	341	6009		D-GR HMA TY-B PG64-28 DOLLARS and CENTS	TON	19,072.000	28
	344	6051		SUPERPAVE MIXTURES SP-C SAC-A PG70-28 DOLLARS and CENTS	TON	6,593.000	29
	354	6045		PLANE ASPH CONC PAV (2") DOLLARS and CENTS	SY	29,314.000	30
	354	6084		PLANE ASPH CONC PAV (3" TO 6") DOLLARS and CENTS	SY	42,148.000	31
	354	6127		PLANE ASPH CONC PAV (1.5" TO 4") DOLLARS and CENTS	SY	31,287.000	32
	360	6002		CONC PVMT (CONT REINF - CRCP) (8") DOLLARS and CENTS	SY	2,607.000	33
	360	6007		CONC PVMT (CONT REINF - CRCP) (13") DOLLARS and CENTS	SY	58,206.000	34
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	1,204.000	35
	400	6006		CUT & RESTORING PAV DOLLARS and CENTS	SY	89.000	36

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	400	6011		SAND BACKFILL  DOLLARS and CENTS	CY	3,411.000	37
	401	6001		FLOWABLE BACKFILL  DOLLARS and CENTS	CY	95.000	38
	402	6001		TRENCH EXCAVATION PROTECTION  DOLLARS and CENTS	LF	4,173.000	39
	403	6001		TEMPORARY SPL SHORING  DOLLARS and CENTS	SF	30,035.000	40
	416	6001		DRILL SHAFT (18 IN)  DOLLARS and CENTS	LF	456.000	41
	416	6004		DRILL SHAFT (36 IN)  DOLLARS and CENTS	LF	6,216.000	42
	416	6016		DRILL SHAFT (SIGN MTS) (12 IN)  DOLLARS and CENTS	LF	21.000	43
	416	6018		DRILL SHAFT (SIGN MTS) (24 IN)  DOLLARS and CENTS	LF	30.000	44
	416	6020		DRILL SHAFT (SIGN MTS) (36 IN)  DOLLARS and CENTS	LF	270.000	45
	416	6022		DRILL SHAFT (SIGN MTS) (48 IN)  DOLLARS and CENTS	LF	51.000	46
	416	6025		DRILL SHAFT (HIGH MAST POLE) (54 IN)  DOLLARS and CENTS	LF	28.000	47
	416	6029		DRILL SHAFT (RDWY ILL POLE) (30 IN)  DOLLARS and CENTS	LF	60.000	48

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	416	6032		DRILL SHAFT (TRF SIG POLE) (36 IN) DOLLARS and CENTS	LF	62.000	49
	420	6014		CL C CONC (ABUT)(HPC) DOLLARS and CENTS	CY	323.700	50
	420	6026		CL C CONC (BENT)(HPC) DOLLARS and CENTS	CY	524.800	51
	420	6058		CL C CONC (WINGWALLS)(HPC) DOLLARS and CENTS	CY	2.700	52
	420	6064		CL C CONC (COPING) DOLLARS and CENTS	CY	5.100	53
	420	6122		CL HES CONC (APPROACH SLAB) DOLLARS and CENTS	CY	143.000	54
	422	6002		REINF CONC SLAB (HPC) DOLLARS and CENTS	SF	79,644.000	55
	422	6016		APPROACH SLAB (HPC) DOLLARS and CENTS	CY	597.600	56
	423	6003		RETAINING WALL (TEMP WALL) DOLLARS and CENTS	SF	20,502.000	57
	423	6008		RETAINING WALL (CAST - IN - PLACE) DOLLARS and CENTS	SF	33,429.000	58
	425	6036		PRESTR CONC GIRDER (TX34) DOLLARS and CENTS	LF	6,804.480	59
	425	6037		PRESTR CONC GIRDER (TX40) DOLLARS and CENTS	LF	5,970.600	60

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	427	6003		OPAQUE SEALER FINISH  DOLLARS and CENTS	SF	653,075.000	61
	427	6004		SILICONE RESIN PAINT FINISH  DOLLARS and CENTS	SF	8,978.000	62
	429	6002		CONC STR REPAIR (EPOXY MORTAR)  DOLLARS and CENTS	SF	450.000	63
	429	6007		CONC STR REPAIR (VERTICAL & OVER- HEAD)  DOLLARS and CENTS	SF	276.000	64
	432	6001		RIPRAP (CONC)(4 IN)  DOLLARS and CENTS	CY	1,086.000	65
	432	6002		RIPRAP (CONC)(5 IN)  DOLLARS and CENTS	CY	1.000	66
	432	6044		RIPRAP (CONC)(FLUME)  DOLLARS and CENTS	CY	183.600	67
	432	6045		RIPRAP (MOW STRIP)(4 IN)  DOLLARS and CENTS	CY	300.000	68
	450	6024		RAIL (TY SSTR)(HPC)  DOLLARS and CENTS	LF	23.000	69
	450	6028		RAIL (TY T80SS)(HPC)  DOLLARS and CENTS	LF	2,456.000	70
	454	6001		SEALED EXPANSION JOINT (4 IN) (SEJ - A)  DOLLARS and CENTS	LF	530.000	71
	454	6011		ARMOR JOINT (MOD)  DOLLARS and CENTS	LF	72.000	72

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	458	6007		WATERPROOFING (TY 10) DOLLARS and CENTS	SY	77.000	73
	462	6001		CONC BOX CULV (3 FT X 2 FT) DOLLARS and CENTS	LF	498.000	74
	462	6002		CONC BOX CULV (3 FT X 3 FT) DOLLARS and CENTS	LF	254.000	75
	462	6006		CONC BOX CULV (5 FT X 2 FT) DOLLARS and CENTS	LF	272.000	76
	464	6003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	417.000	77
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	3,271.000	78
	464	6007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	1,353.000	79
	464	6008		RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	49.000	80
	465	6014		INLET (COMPL)(PCO)(3FT)(LEFT) DOLLARS and CENTS	EA	2.000	81
	465	6015		INLET (COMPL)(PCO)(3FT)(RIGHT) DOLLARS and CENTS	EA	2.000	82
	465	6016		INLET (COMPL)(PCO)(3FT)(BOTH) DOLLARS and CENTS	EA	16.000	83
	465	6070		INLET (COMPL)(PSL)(RC)(3FTX3FT) DOLLARS and CENTS	EA	9.000	84

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	465	6071		INLET (COMPL)(PSL)(RC)(4FTX4FT) DOLLARS and CENTS	EA	3.000	85
	465	6074		INLET (COMPL)(PSL)(RC)(5FTX5FT) DOLLARS and CENTS	EA	2.000	86
	465	6126		INLET (COMPL)(PSL)(FG)(3FTX3FT-3FTX- 3FT) DOLLARS and CENTS	EA	5.000	87
	465	6128		INLET (COMPL)(PSL)(FG)(4FTX4FT-4FTX- 4FT) DOLLARS and CENTS	EA	8.000	88
	465	6225		JCT BOX (COMPL)(SPL) DOLLARS and CENTS	EA	2.000	89
	466	6178		WINGWALL (PW - 1) (HW=3 FT) DOLLARS and CENTS	EA	1.000	90
	474	6021		CAST-IN-PLACE TRENCH DRAIN DOLLARS and CENTS	LF	133.000	91
	479	6001		ADJUSTING MANHOLES DOLLARS and CENTS	EA	3.000	92
	479	6006		ADJUSTING INLET (CAP) DOLLARS and CENTS	EA	1.000	93
	481	6024		PIPE (PVC) (SCH 80) (8 IN) DOLLARS and CENTS	LF	1,010.000	94
	496	6002		REMOV STR (INLET) DOLLARS and CENTS	EA	11.000	95
	496	6003		REMOV STR (MANHOLE) DOLLARS and CENTS	EA	2.000	96

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	ITEM NO	DESC CODE	S.P. NO.				
	496	6007		REMOV STR (PIPE)  DOLLARS and CENTS	LF	2,882.000	97
	496	6010		REMOV STR (BRIDGE 100 - 499 FT LENGTH)  DOLLARS and CENTS	EA	4.000	98
	500	6001		MOBILIZATION  DOLLARS and CENTS	LS	1.000	99
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING  DOLLARS and CENTS	MO	23.000	100
	506	6020	003	CONSTRUCTION EXITS (INSTALL) (TY 1)  DOLLARS and CENTS	SY	624.000	101
	506	6024	003	CONSTRUCTION EXITS (REMOVE)  DOLLARS and CENTS	SY	624.000	102
	506	6038	003	TEMP SEDMT CONT FENCE (INSTALL)  DOLLARS and CENTS	LF	1,307.000	103
	506	6039	003	TEMP SEDMT CONT FENCE (REMOVE)  DOLLARS and CENTS	LF	1,307.000	104
	506	6040	003	BIODEG EROSN CONT LOGS (INSTL) (8")  DOLLARS and CENTS	LF	1,610.000	105
	506	6043	003	BIODEG EROSN CONT LOGS (REMOVE)  DOLLARS and CENTS	LF	1,610.000	106
	508	6001		CONSTRUCTING DETOURS  DOLLARS and CENTS	SY	22,715.000	107
	512	6005		PORT CTB (FUR & INST)(F-SHAPE)(TY 1)  DOLLARS and CENTS	LF	18,200.000	108

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	512	6029		PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	11,400.000	109
	512	6053		PORT CTB (REMOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	18,200.000	110
	514	6009		PERM CTB (SGL SLOPE) (TY 1) (54 ) DOLLARS and CENTS	LF	5,975.000	111
	514	6011		PERM CTB (SGL SLOPE) (TY 3) (54 ) DOLLARS and CENTS	LF	240.000	112
	514	6032		PERM CTB(SGL SLOPE)(TY 1)(42)(HPC)(MOD) DOLLARS and CENTS	LF	101.300	113
	529	6005		CONC CURB (MONO) (TY II) DOLLARS and CENTS	LF	1,443.000	114
	529	6007		CONC CURB & GUTTER (TY I) DOLLARS and CENTS	LF	835.000	115
	529	6008		CONC CURB & GUTTER (TY II) DOLLARS and CENTS	LF	14,288.000	116
	529	6012		CONC CURB (SLOTTED) DOLLARS and CENTS	LF	34.000	117
	529	6015		CONC CURB (TY C1) DOLLARS and CENTS	LF	302.000	118
	530	6004		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	3,328.000	119
	531	6003		CONC SIDEWALKS (6") DOLLARS and CENTS	SY	2,036.000	120

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	ITEM NO	DESC CODE	S.P. NO.				
	531	6004		CURB RAMPS (TY 1)  DOLLARS and CENTS	EA	7.000	121
	531	6005		CURB RAMPS (TY 2)  DOLLARS and CENTS	EA	5.000	122
	531	6010		CURB RAMPS (TY 7)  DOLLARS and CENTS	EA	2.000	123
	531	6013		CURB RAMPS (TY 10)  DOLLARS and CENTS	EA	14.000	124
	531	6017		CURB RAMPS (TY 22)  DOLLARS and CENTS	EA	2.000	125
	540	6002		MTL W-BEAM GD FEN (STEEL POST)  DOLLARS and CENTS	LF	6,275.000	126
	540	6006		MTL BEAM GD FEN TRANS (THRIE-BEAM)  DOLLARS and CENTS	EA	12.000	127
	540	6016		DOWNSTREAM ANCHOR TERMINAL SEC- TION  DOLLARS and CENTS	EA	8.000	128
	542	6001		REMOVE METAL BEAM GUARD FENCE  DOLLARS and CENTS	LF	4,270.000	129
	542	6002		REMOVE TERMINAL ANCHOR SECTION  DOLLARS and CENTS	EA	7.000	130
	544	6001		GUARDRAIL END TREATMENT (INSTALL)  DOLLARS and CENTS	EA	8.000	131
	545	6001		CRASH CUSH ATTEN (INSTL)  DOLLARS and CENTS	EA	9.000	132

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	6.000	133
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	9.000	134
	610	6006		REMOVE RD IL ASM (BRIDGE MOUNT) DOLLARS and CENTS	EA	2.000	135
	610	6008		REMOVE RD IL ASM (CTB MOUNT) DOLLARS and CENTS	EA	16.000	136
	610	6009		REMOVE RD IL ASM (TRANS-BASE) DOLLARS and CENTS	EA	6.000	137
	610	6103		REPLACE LUMINAIRE W/LED (400W EQ) DOLLARS and CENTS	EA	50.000	138
	610	6267		IN RD IL (TY SP) 48S-12-12(400W EQ)LED DOLLARS and CENTS	EA	14.000	139
	610	6274		IN RD IL (TY SA) 50B-12 (400W EQ) LED DOLLARS and CENTS	EA	8.000	140
	610	6322		IN RD IL (TY ST) 50T-12 (400W EQ) LED DOLLARS and CENTS	EA	6.000	141
	613	6002		HI MST IL POLE (100 FT)(100 MPH) DOLLARS and CENTS	EA	1.000	142
	618	6023		CONDT (PVC) (SCH 40) (2") DOLLARS and CENTS	LF	6,613.000	143
	618	6029		CONDT (PVC) (SCH 40) (3") DOLLARS and CENTS	LF	20.000	144

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	618	6034		CONDT (PVC) (SCH 40) (4") (BORE) DOLLARS and CENTS	LF	1,510.000	145
	618	6046		CONDT (PVC) (SCH 80) (2") DOLLARS and CENTS	LF	539.000	146
	618	6047		CONDT (PVC) (SCH 80) (2") (BORE) DOLLARS and CENTS	LF	1,331.000	147
	618	6053		CONDT (PVC) (SCH 80) (3") DOLLARS and CENTS	LF	382.000	148
	618	6058		CONDT (PVC) (SCH 80) (4") DOLLARS and CENTS	LF	12.000	149
	618	6059		CONDT (PVC) (SCH 80) (4") (BORE) DOLLARS and CENTS	LF	341.000	150
	620	6007		ELEC CONDR (NO.8) BARE DOLLARS and CENTS	LF	1,777.000	151
	620	6010		ELEC CONDR (NO.6) INSULATED DOLLARS and CENTS	LF	722.000	152
	620	6011		ELEC CONDR (NO.4) BARE DOLLARS and CENTS	LF	11,971.000	153
	620	6012		ELEC CONDR (NO.4) INSULATED DOLLARS and CENTS	LF	22,356.000	154
	621	6001		TRAY CABLE (3 CONDR) (14 AWG) DOLLARS and CENTS	LF	1,952.000	155
	624	6002		GROUND BOX TY A (122311)W/APRON DOLLARS and CENTS	EA	20.000	156

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	ITEM NO	DESC CODE	S.P. NO.				
	624	6010		GROUND BOX TY D (162922)W/APRON DOLLARS and CENTS	EA	12.000	157
	624	6020		GROUND BOX TY 2 (243636) DOLLARS and CENTS	EA	1.000	158
	624	6028		REMOVE GROUND BOX DOLLARS and CENTS	EA	7.000	159
	628	6002		REMOVE ELECTRICAL SERVICES DOLLARS and CENTS	EA	1.000	160
	628	6153		ELC SRV TY D 120/240 060(NS)SS(N)TP(O) DOLLARS and CENTS	EA	1.000	161
	628	6188		ELC SRV TY D 120/240 070(NS)SS(E)SP(O) DOLLARS and CENTS	EA	1.000	162
	636	6002		ALUMINUM SIGNS (TY G) DOLLARS and CENTS	SF	521.000	163
	636	6003		ALUMINUM SIGNS (TY O) DOLLARS and CENTS	SF	1,433.000	164
	636	6007		REPLACE EXISTING ALUMINUM SIGNS(TY A) DOLLARS and CENTS	SF	54.000	165
	636	6008		REPLACE EXISTING ALUMINUM SIGNS(TY G) DOLLARS and CENTS	SF	120.000	166
	636	6009		REPLACE EXISTING ALUMINUM SIGNS(TY O) DOLLARS and CENTS	SF	841.000	167

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	37.000	168
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	56.000	169
	644	6028		IN SM RD SN SUP&AM TYS80(1)SA(P-BM) DOLLARS and CENTS	EA	2.000	170
	644	6030		IN SM RD SN SUP&AM TYS80(1)SA(T) DOLLARS and CENTS	EA	13.000	171
	644	6033		IN SM RD SN SUP&AM TYS80(1)SA(U) DOLLARS and CENTS	EA	4.000	172
	644	6060		IN SM RD SN SUP&AM TYTWT(1)WS(P) DOLLARS and CENTS	EA	4.000	173
	644	6064		IN BRIDGE MNT CLEARANCE SGN ASSM(TY N) DOLLARS and CENTS	EA	11.000	174
	644	6065		IN BRIDGE MNT CLEARANCE SGN ASSM(TY S) DOLLARS and CENTS	EA	3.000	175
	644	6067		IN SM RD SN SUP&AM (INST SIGN ONLY) DOLLARS and CENTS	EA	3.000	176
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	84.000	177
	647	6001		INSTALL LRSS (STRUCT STEEL) DOLLARS and CENTS	LB	2,293.000	178
	647	6002		RELOCATE LRSA DOLLARS and CENTS	EA	1.000	179

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	647	6003		REMOVE LRSA  DOLLARS and CENTS	EA	5.000	180
	650	6032		INS OH SN SUP(30 FT CANT)  DOLLARS and CENTS	EA	1.000	181
	650	6084		INS OH SN SUP(75 FT BRDG)  DOLLARS and CENTS	EA	3.000	182
	650	6094		INS OH SN SUP(85 FT BRDG)  DOLLARS and CENTS	EA	1.000	183
	650	6203		RELOCATE EXISTING OVERHD SIGN SUP  DOLLARS and CENTS	EA	1.000	184
	650	6204		REMOVE OVERHD SIGN SUP  DOLLARS and CENTS	EA	4.000	185
	650	6205		REMOVE OVERHD SIGN SUP (SIGN ONLY)  DOLLARS and CENTS	EA	1.000	186
	658	6001		INSTL DEL ASSM (D-SW)SZ 1(FLX)GND  DOLLARS and CENTS	EA	23.000	187
	658	6013		INSTL DEL ASSM (D-SW)SZ (BRF)CTB  DOLLARS and CENTS	EA	12.000	188
	658	6018		INSTL DEL ASSM (D-SY)SZ 1(FLX)GND  DOLLARS and CENTS	EA	35.000	189
	658	6036		INSTL DEL ASSM (D-DW)SZ 1(FLX)GND  DOLLARS and CENTS	EA	14.000	190
	658	6061		INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2  DOLLARS and CENTS	EA	44.000	191

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	658	6067		INSTL DEL ASSM (D-DW)SZ 1(BRF)GF2 DOLLARS and CENTS	EA	17.000	192
	662	6001		WK ZN PAV MRK NON-REMOV (W)4"(BRK) DOLLARS and CENTS	LF	15,530.000	193
	662	6004		WK ZN PAV MRK NON-REMOV (W)4"(SLD) DOLLARS and CENTS	LF	103,562.000	194
	662	6010		WK ZN PAV MRK NON-REMOV (W)8"(DOT) DOLLARS and CENTS	LF	15,184.000	195
	662	6012		WK ZN PAV MRK NON-REMOV (W)8"(SLD) DOLLARS and CENTS	LF	22,912.000	196
	662	6014		WK ZN PAV MRK NON-REMOV (W)12"(SLD) DOLLARS and CENTS	LF	610.000	197
	662	6034		WK ZN PAV MRK NON-REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	112,073.000	198
	662	6038		WK ZN PAV MRK NON-REMOV (Y)8"(SLD) DOLLARS and CENTS	LF	620.000	199
	662	6048		WK ZN PAV MRK REMOV (REFL) TY I-C DOLLARS and CENTS	EA	1,221.000	200
	666	6006		REFL PAV MRK TY I (W)4"(DOT)(100MIL) DOLLARS and CENTS	LF	93.000	201
	666	6036		REFL PAV MRK TY I (W)8"(SLD)(100MIL) DOLLARS and CENTS	LF	22,809.000	202
	666	6039		REFL PAV MRK TY I (W)12"(LNDP)(100MIL) DOLLARS and CENTS	LF	1,647.000	203

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6042		REFL PAV MRK TY I (W)12"(SLD)(100MIL) DOLLARS and CENTS	LF	3,333.000	204
	666	6048		REFL PAV MRK TY I (W)24"(SLD)(100MIL) DOLLARS and CENTS	LF	1,658.000	205
	666	6054		REFL PAV MRK TY I (W)(ARROW)(100MIL) DOLLARS and CENTS	EA	28.000	206
	666	6057		REFL PAV MRK TY I(W)(DBL ARROW)(100MIL) DOLLARS and CENTS	EA	8.000	207
	666	6063		REFL PAV MRK TY I(W)(UTURN ARW)(100MIL) DOLLARS and CENTS	EA	6.000	208
	666	6075		REFL PAV MRK TY I (W)(NUMBER)(100MIL) DOLLARS and CENTS	EA	3.000	209
	666	6078		REFL PAV MRK TY I (W)(WORD)(100MIL) DOLLARS and CENTS	EA	42.000	210
	666	6099		REF PAV MRK TY I(W)18"(YLD TRI)(100MIL) DOLLARS and CENTS	EA	37.000	211
	666	6147		REFL PAV MRK TY I (Y)24"(SLD)(100MIL) DOLLARS and CENTS	LF	424.000	212
	666	6224		PAVEMENT SEALER 4" DOLLARS and CENTS	LF	42,800.000	213
	666	6226		PAVEMENT SEALER 8" DOLLARS and CENTS	LF	12,045.000	214
	666	6228		PAVEMENT SEALER 12" DOLLARS and CENTS	LF	3,722.000	215

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6230		PAVEMENT SEALER 24" DOLLARS and CENTS	LF	273.000	216
	666	6231		PAVEMENT SEALER (ARROW) DOLLARS and CENTS	EA	20.000	217
	666	6232		PAVEMENT SEALER (WORD) DOLLARS and CENTS	EA	25.000	218
	666	6234		PAVEMENT SEALER (DBL ARROW) DOLLARS and CENTS	EA	4.000	219
	666	6236		PAVEMENT SEALER (UTURN ARROW) DOLLARS and CENTS	EA	6.000	220
	666	6243		PAVEMENT SEALER (YLD TRI) DOLLARS and CENTS	EA	37.000	221
	666	6300		RE PM W/RET REQ TY I (W)4"(BRK)(100MIL) DOLLARS and CENTS	LF	18,610.000	222
	666	6303		RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	40,942.000	223
	666	6312		RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL) DOLLARS and CENTS	LF	200.000	224
	666	6315		RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	43,846.000	225
	672	6004		PLOWABLE REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	988.000	226
	672	6010		REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	644.000	227

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	36,337.000	228
	677	6003		ELIM EXT PAV MRK & MRKS (8") DOLLARS and CENTS	LF	5,514.000	229
	677	6005		ELIM EXT PAV MRK & MRKS (12") DOLLARS and CENTS	LF	70.000	230
	678	6001		PAV SURF PREP FOR MRK (4") DOLLARS and CENTS	LF	48,550.000	231
	678	6004		PAV SURF PREP FOR MRK (8") DOLLARS and CENTS	LF	12,901.000	232
	678	6006		PAV SURF PREP FOR MRK (12") DOLLARS and CENTS	LF	3,893.000	233
	678	6008		PAV SURF PREP FOR MRK (24") DOLLARS and CENTS	LF	255.000	234
	678	6009		PAV SURF PREP FOR MRK (ARROW) DOLLARS and CENTS	EA	22.000	235
	678	6010		PAV SURF PREP FOR MRK (DBL ARROW) DOLLARS and CENTS	EA	6.000	236
	678	6012		PAV SURF PREP FOR MRK (UTURN ARR) DOLLARS and CENTS	EA	6.000	237
	678	6016		PAV SURF PREP FOR MRK (WORD) DOLLARS and CENTS	EA	26.000	238
	678	6022		PAV SURF PREP FOR MRK (18")(YLD TRI) DOLLARS and CENTS	EA	37.000	239

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	680	6003		INSTALL HWY TRF SIG (SYSTEM) DOLLARS and CENTS	EA	1.000	240
	681	6001		TEMP TRAF SIGNALS DOLLARS and CENTS	EA	1.000	241
	682	6001		VEH SIG SEC (12")LED(GRN) DOLLARS and CENTS	EA	15.000	242
	682	6002		VEH SIG SEC (12")LED(GRN ARW) DOLLARS and CENTS	EA	4.000	243
	682	6003		VEH SIG SEC (12")LED(YEL) DOLLARS and CENTS	EA	15.000	244
	682	6004		VEH SIG SEC (12")LED(YEL ARW) DOLLARS and CENTS	EA	4.000	245
	682	6005		VEH SIG SEC (12")LED(RED) DOLLARS and CENTS	EA	15.000	246
	682	6006		VEH SIG SEC (12")LED(RED ARW) DOLLARS and CENTS	EA	2.000	247
	682	6018		PED SIG SEC (LED)(COUNTDOWN) DOLLARS and CENTS	EA	12.000	248
	682	6023		BACK PLATE (12")(3 SEC) DOLLARS and CENTS	EA	15.000	249
	682	6025		BACK PLATE (12")(5 SEC) DOLLARS and CENTS	EA	2.000	250
	684	6007		TRF SIG CBL (TY A)(12 AWG)(2 CONDR) DOLLARS and CENTS	LF	1,547.000	251

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	684	6010		TRF SIG CBL (TY A)(12 AWG)(5 CONDR) DOLLARS and CENTS	LF	1,607.000	252
	684	6012		TRF SIG CBL (TY A)(12 AWG)(7 CONDR) DOLLARS and CENTS	LF	536.000	253
	684	6025		TRF SIG CBL (TY A)(12 AWG)(20 CONDR) DOLLARS and CENTS	LF	680.000	254
	686	6039		INS TRF SIG PL AM(S)1 ARM(36')LUM DOLLARS and CENTS	EA	1.000	255
	686	6047		INS TRF SIG PL AM(S)1 ARM(44')LUM DOLLARS and CENTS	EA	1.000	256
	686	6107		INS TRF SIG PL AM(S)2 ARM(32-32')LUM DOLLARS and CENTS	EA	1.000	257
	686	6123		INS TRF SIG PL AM(S)2 ARM(36-32')LUM DOLLARS and CENTS	EA	1.000	258
	687	6001		PED POLE ASSEMBLY DOLLARS and CENTS	EA	8.000	259
	688	6001		PED DETECT PUSH BUTTON (APS) DOLLARS and CENTS	EA	12.000	260
	688	6003		PED DETECTOR CONTROLLER UNIT DOLLARS and CENTS	EA	1.000	261
	780	6002		CNC CRACK REPAIR (DISCRETE)(INJECT) DOLLARS and CENTS	LF	50.000	262
	786	6001		CARBON FIBER REINF POLYMER PROTEC- TION DOLLARS and CENTS	SF	1,619.200	263

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6000	6022		REMOVE ROADWAY ILLUM ASSEMBLY (HPS)  DOLLARS and CENTS	EA	21.000	264
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN  DOLLARS and CENTS	EA	4.000	265
	6010	6001		CCTV FIELD EQUIPMENT (ANALOG)  DOLLARS and CENTS	EA	4.000	266
	6028	6002		INSTALL DMS (FOUNDATION MTD CABI- NET)  DOLLARS and CENTS	EA	2.000	267
	6054	6001		SPREAD SPECTRUM RADIO  DOLLARS and CENTS	EA	1.000	268
	6054	6002		COAXIAL CABLE  DOLLARS and CENTS	LF	239.000	269
	6054	6005		ANTENNA (UNI-DIRECTIONAL)  DOLLARS and CENTS	EA	1.000	270
	6057	6001		RADAR ADVANCED DETECTION DEVICE  DOLLARS and CENTS	EA	4.000	271
	6062	6022		ITS RADIO (SNGL)(5 GHZ)-C-U  DOLLARS and CENTS	EA	1.000	272
	6064	6069		ITS POLE (8 FT)(COSS/OSB)(INST ONLY)  DOLLARS and CENTS	EA	1.000	273
	6134	6001		REMOVE DYNAMIC MESSAGE SIGN SYS- TEM  DOLLARS and CENTS	EA	2.000	274

PROJECT NH 1602(189) , ETC.  
 COUNTY POTTER

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.				
	6188	6001		CCTV ON HIGH MAST ILLUMINATION ASSEMBLY  and  DOLLARS CENTS	EA	1.000	275

**County:** POTTER

**Control:** 0275-01-177, Etc.

**Highway:** IH 40

**GENERAL NOTES:**

**Item 5 Control of the Work**

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

**Item 7 Legal Relations and Responsibilities**

The total area disturbed for this project is 9.50 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the local government that operates a separate storm sewer system.

**Item 8 Prosecution and Progress**

All project schedules will be prepared and submitted using one of the following software applications: Suretrack, Primavera, Microsoft Project or other approved software.

**General**

Pre-letting questions will be received up to 5 working days prior to the letting date and are to be submitted by e-mail to: [Lane.Provence@txdot.gov](mailto:Lane.Provence@txdot.gov) and CC: [Gus.Khankarli@txdot.gov](mailto:Gus.Khankarli@txdot.gov) and will be responded to accordingly. A file containing the consolidated questions and answers will be emailed to prospective bidders upon receipt of a written request to the above email addresses up to 3 working days prior to the letting date.

Verify all survey control prior to beginning construction. Notify engineer of any discrepancies in control prior to beginning construction.

If portions of the right-of-way is used to store materials, equipment, and other uses with the approval of the engineer, materials, equipment, etc., must either be located outside the 30 feet traffic safety clearance zone or be adequately protected.

**County:** POTTER

**Control:** 0275-01-177, Etc.

**Highway:** IH 40

The slopes indicated on the typical sections may be varied when fixed features require slopes are re-established as directed by the engineer.

Any work necessary to provide temporary ingress and egress during construction (such as building gravel ramps, etc.) Will not be paid for directly, but shall be considered as subsidiary work to the various bid items.

Dust caused by construction operations shall be controlled by applying water in conformance with the requirements of item 204, "sprinkling". Sprinkling for dust control will not be paid for directly, but shall be considered as subsidiary work to the various bid items.

There are approximately 3 "reference markers" within the project limits. If a marker needs to be moved for any reason during construction operations, it shall be the responsibility of the contractor to remove the marker, install it in a temporary location and then reinstall it in its correct permanent location. Both the temporary and permanent locations shall be on a line that is perpendicular to the original "station" along the roadway. The temporary location shall be at or near the right-of-way. The permanent location shall be as directed by the engineer.

Provide railroad protective liability insurance.

Verify all existing grades, elevations, and cross slopes that will connect to any proposed grades and elevations. If adjustments are warranted, the contractor shall submit proposed changes to the engineer for verification.

Remove all excess material from bridge substructure resulting from all construction including planing, seal coat and ACP overlays. This work will not be paid for directly, but shall be considered subsidiary to various bid items in the contract.

If contractor damages any sprinkler heads, risers or water lines that are not to be relocated, he is required to replace or repair all damage at his own expense and to the engineer's satisfaction.

#### **Item 164 Seeding for Erosion Control**

Perform planting operations in accordance with the recommendations contained in the latest version of the TxDOT manual "A Guide to Roadside Vegetation Establishment" developed by the Vegetation Management Section of the Maintenance Division.

Seeding may require more than one mobilization, depending upon the contractor's sequence of work.

#### **Item 166 Fertilizer**

**County:** POTTER

**Control:** 0275-01-177, Etc.

**Highway:** IH 40

Fertilize all areas of project to be seeded or sodded in accordance with the Amarillo District Vegetation Specification Sheet.

**Item 169 Soil Retention Blankets**

All Class 1 Slope Protection will be the roll-out type, having netting on both sides. Hydraulically placed materials will not be allowed.

**Item 247 Flexible Base**

\*\*\*\* PUT THIS ON THE "SPEC DATA SHEET" FOR \*\*\*\*  
ITEM 247 (TY A OR B, GR 4) BASE

RETAINED ON	%
SQ. SIEVE	
1 3/4" .....	0
7/8 " .....	17-32
3/8" .....	40-60
NO. 4 .....	50-70
NO. 40 .....	70-85
MAX LL.....	40
MAX PL.....	12
WET BALL MILL TY A ONLY	
MAX. AMT.....	45 (use 40 or 45 KB)
MAX. INCREASE	
IN PASSING	
NO. 40 .....	20

**Item 260 Lime Treatment (Road-Mixed)**

All required moisture added for mixing and compaction operations shall be injected through the mixing process. Sprinkle the base to prevent excessive loss of moisture as directed by the engineer.

Spread the lime with a vein feeder approved by the engineer that is capable of spreading the lime uniformly to within 5 percent of the specified rate.

**Item 275 Cement Treatment (Road-Mixed)**

The intent of this item is to pulverize existing ACP and blend with the existing flexible base. Consider the existing ACP and flexible base as existing base material, and payment made under this item includes pulverizing the existing materials.

**County:** POTTER

**Control:** 0275-01-177, Etc.

**Highway:** IH 40

All required moisture added for the mixing and compaction operation shall be injected through the mixing process. Sprinkle the base material to prevent excessive loss of moisture as directed by the Engineer.

Spread the cement with a vein feeder approved by the Engineer that is capable of spreading the cement uniformly to within 5 percent of the specified rate.

Backfill any vertical edge nightly with a material approved by the Engineer and at a minimum slope of 3:1.

**Item 300 Asphalts, Oils, and Emulsions**

Asphalt from different sources shall not be blended.

The "open" season for applying asphaltic materials and mixtures for the listed items shall be as follows, unless authorized otherwise in writing by the engineer:

Items -----	Open season -----
310	All year
341, 344	From April 15th through October 31st

**Item 301 Asphalt Anti-stripping Agent**

Use lime as an anti-stripping agent in all ACP.

Add hydrated lime to the aggregate by the following method only; mix in an approved pug mill mixer with damp aggregate containing water at least 2% above saturated surface dry conditions.

The option of using an additive of lime slurry at the rate of 1% lime of total aggregate weight for virgin material and 1 1/2 % lime of total aggregate weight when recycled asphalt pavement is used. The use of a lime-water mixing procedure shall be approved by the engineer. When lime is used the moisture susceptibility test (Tex 531-c) during production is waived. If the contractor elects not to use lime all requirements under item 301 shall be achieved.

**Item 341 Dense Graded Hot Mix Asphalt (QC/QA)**

Use aggregate that meets the SAC requirement of class A.

Only fractionated RAP is allowed.

Use of RAS is not allowed.

**County:** POTTER

**Control:** 0275-01-177, Etc.

**Highway:** IH 40

Design the mixture using a Superpave Gyratory Compactor (SGC).

A self-propelled, wheel mounted material transfer vehicle (MTV) capable of receiving hot mix from the haul trucks separate from the paver is required on all courses and all types of hot mix for this project. The MTV shall have a minimum storage capacity of approximately 25 tons, and equipped with a pivoting discharge conveyor and a means of completely remixing the hot mix prior to placement. The paver hopper shall be equipped with a separate surge storage insert with a minimum capacity of approximately 20 tons.

The option of using an additive of lime slurry at the rate of 1% lime of total aggregate weight for virgin material and 1 1/2 % lime of total aggregate weight when recycled asphalt pavement is used. The use of a lime-water mixing procedure shall be approved by the engineer. When lime is used the moisture susceptibility test (Tex 531-c) during production is waived. If the contractor elects not to use lime all requirements under item 301 shall be achieved.

When laying ACP on a roadway which has two or more lanes and the work is being done under traffic, then the adjacent lane or lanes shall be overlaid by the end of the following day.

Make a smooth, clean, 1 inch deep butt joint where each end of the new pavement joins the existing pavement. Any method approved by the engineer can be used to make the joint.

The district lab will perform a maximum of 2(two) design verification tests. If additional verification tests are needed, the contractor will be billed \$3,500.00 per each additional verification test required to obtain an approved asphaltic concrete pavement mix design.

The Contractor may only use a substitute PG binder one grade below the PG binder originally specified unless the substitute PG binder and the mixture made with the substitute PG binder has less than 3.5 mm of rutting on the Hamburg Wheel test (TEX-242-F) after the number of passes required for the originally specified binder. If this condition is met, the use of a substitute PG binder two grades below the PG binder originally specified may be allowed at the discretion of the Engineer. The above criteria must continue to be met during production and additional tests will be performed at a frequency determined by the engineer.

Provide a trackless asphalt for tack coat at a rate of 0.09-0.13 GAL/SY or as directed, subsidiary to this item. Tack coat all vertical joints with the trackless tack as directed.

If used, the IR bar read out screen must be visible at all times to the engineer.

#### **Item 344 Superpave Mixtures**

Use aggregate that meets the SAC requirement of class A.

Only fractionated RAP is allowed.

**County:** POTTER

**Control:** 0275-01-177, Etc.

**Highway:** IH 40

Use of RAS is not allowed.

A self-propelled, wheel mounted material transfer vehicle (MTV) capable of receiving hot mix from the haul trucks separate from the paver is required on all courses and all types of hot mix for this project. The MTV shall have a minimum storage capacity of approximately 25 tons, and equipped with a pivoting discharge conveyor and a means of completely remixing the hot mix prior to placement. The paver hopper shall be equipped with a separate surge storage insert with a minimum capacity of approximately 20 tons.

When laying ACP on a roadway which has two or more lanes and the work is being done under traffic, then the adjacent lane or lanes shall be overlaid by the end of the following day.

Make a smooth, clean, 1 inch deep butt joint where each end of the new pavement joins the existing pavement. Any method approved by the engineer can be used to make the joint.

The district lab will perform a maximum of 2(two) design verification tests. If additional verification tests are needed, the contractor will be billed \$3,500.00 per each additional verification test required to obtain an approved asphaltic concrete pavement mix design.

The Contractor may only use a substitute PG binder one grade below the PG binder originally specified unless the substitute PG binder and the mixture made with the substitute PG binder has less than 3.5 mm of rutting on the Hamburg Wheel test (TEX-242-F) after the number of passes required for the originally specified binder. If this condition is met, the use of a substitute PG binder two grades below the PG binder originally specified may be allowed at the discretion of the Engineer. The above criteria must continue to be met during production and additional tests will be performed at a frequency determined by the engineer.

Provide a trackless asphalt for tack coat at a rate of 0.09-0.13 GAL/SY or as directed, subsidiary to this item. Tack coat all vertical joints with the trackless tack as directed.

If used, the IR bar read out screen must be visible at all times to the engineer.

### **Item 354 Planing and Texturing Pavement**

The material planed from existing roadway is estimated at 11,341 CY for this project.

This material will be available for the contractor for use as RAP.

If the material planed from the existing roadway is not used for RAP then the material shall remain the property of the state.

The material planed from the existing roadway shall remain the property of the state. The maximum size of the planed material shall be 2 in. The contractor shall salvage and stockpile the material within the right-of-way at the following locations:

**County:** POTTER

**Control:** 0275-01-177, Etc.

**Highway:** IH 40

1. Loop 335 and SH 136

The stockpile(s) will be approximately 10ft high with 1:1 side slopes, 50 ft. wide and 765 ft. long at the base. The stockpile(s) will be shaped so that adequate measurement can be done. The excess material shall not be compacted by the equipment used in the stockpiling operation.

**Item 360 Concrete Pavement**

Multiple piece tie bars will be required when single piece is in conflict with the traveling public.

A pre-paving meeting will be required.

**Item 400**

Cement stabilized backfill is intended for the use of backfilling behind the wingwalls and backwall of the abutments, and other areas designated in the plan sheets.

**Item 420 Concrete Substructures**

Calcium nitrate, an inorganic corrosion inhibitor admixture, shall be added to Class "C" (HPC) and Class "S" (HPC) concrete at a dosage rate of 2.0 gal/cy.

Provide High Performance Concrete (HPC) for the following elements:

Bridge Deck, Bent Caps And Columns, Abutments, Bridge Rail, Bridge Approach Slabs.

Provide Grade 60 Dual Coated, Stainless Steel or Low Carbon/Chromium reinforcing steel for the following elements:

Bridge deck, Bent Caps, Abutments, and Approach Slabs.

Slope top of abutment caps, and bent caps, except the bearing seats, such that water will drain away from the backwall. This work will not be paid for directly, but shall be considered subsidiary to pertinent items.

**Item 421 Hydraulic Cement Concrete**

The sand equivalent value of fine aggregate shall not be less than 85 when subjected to test method tex-203-f.

All cast-in-place concrete except for drilled shafts shall be air-entrained. Pre-cast and drilled shaft concrete may be air-entrained at the contractor's option.

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100% virgin polypropylene fibrillated fibers (macro fibers) shall be added to all Class S (HPC) concrete at a rate of 1.5 lbs./cy

Use Option 5 with silica fume for Mix Design requirements for all Class C and Class S concrete.

**Item 422 Concrete Superstructures**

The use of permanent metal deck forms will not be permitted.

Heavy broom finish will be required. Tining will not be required.

**Item 423 Retaining Wall**

At contractor's option, an approved proprietary Precast Wall Stem system may be used in lieu of the Cast-in Place Stem used in conjunction with the standard Cast-in-Place spread footing wall system. If such option is used, detailed design calculations, special design details, and shop drawings including corrosion protection details for connecting components shall be submitted for approval. No additional compensation and no other optional or experimental walls will be allowed.

Retaining wall facing design shall be the same within an area of continuous retaining walls.

**Item 425 Prestressed Concrete Structural Members**

Calcium nitrate, an inorganic corrosion inhibitor admixture, shall be added to prestressed concrete beams at a dosage rate of 3.0 gal/cy.

**Item 427 Surface Finishes for Concrete**

Light Color: SW#6080 – Utterly Beige

Dark Color: SW#6102 – Porta Bello

Retaining Walls:

The color of the form liner finish on the retaining wall will be the dark color. The smooth finish along the top, edges, simulated columns and simulated coping of each panel will be the light color.

Bridge Elements:

The color of the surface finishes for the bridge elements will be as follows:

- (1) The bent (cap and columns) will be the dark color.
- (2) The vertical surface of the deck, underside of overhang will be the light color.

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- (3) The exposed vertical front face and bottom of the outside beams will be the light color.
- (4) The abutment wingwalls and abutment caps will be the light color.
- (5) The T80SS above the top of deck to the end of recessed section approximately one half of the bottom of the rail will be the dark color. The top half including the reveals, the top and the inside face will be the light color.

Areas and colors will be approved by the engineer. This work will not be paid for directly, but shall be considered subsidiary to Item 427.

### **Item 432 Riprap**

Use Cap Option A with 20 GA metal flashing for riprap in contact with the abutment and wingwalls.

All riprap in contact with bridge abutments shall have joints made with a 6" fiber expansion joint material and be sealed with a joint sealer as approved by the engineer.

### **Item 454 Bridge Expansion Joints**

For Header-Type Expansion Joints, the following systems are approved:

(SEE LINK BELOW FOR UPDATED LIST OF APPROVED JOINTS SYSTEMS)

[http://www.txdot.gov/business/contractors\\_consultants/producer\\_list.htm](http://www.txdot.gov/business/contractors_consultants/producer_list.htm)

Required note for Asphalt-Plug Expansion Joints:

For Asphalt-Plug Expansion Joints, the following systems are approved:

(SEE LINK BELOW FOR UPDATED LIST OF APPROVED JOINTS SYSTEMS)

[http://www.txdot.gov/business/contractors\\_consultants/producer\\_list.htm](http://www.txdot.gov/business/contractors_consultants/producer_list.htm)

### **Item 462 Concrete Box Culverts and Storm Drains**

Joint material for reinforced concrete pipe shall be either cold applied preformed plastic gaskets or cold applied plastic asphalt Sewer joint compound.

Backfill pipe up to the springline with granular material. The ponding method of backfilling will be allowed for the granular material only.

Joint material for reinforced concrete pipe shall be either cold applied preformed plastic gaskets or cold applied plastic asphalt Sewer joint compound.

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Backfill pipe up to the springline with granular material. The ponding method of backfilling will be allowed for the granular material only.

**Item 464 Reinforced Concrete Pipe**

Joint material for reinforced pipe 30" in diameter or smaller shall be either cold applied preformed plastic gaskets or cold applied plastic asphalt sewer joint compound. Joint material for pipes larger than 30" diameter shall be cold applied plastic asphalt sewer joint compound.

Bedding for pipe culverts shall be 6 inches of sand. The excavation required to place the sand will not be paid for directly but will be considered subsidiary to this item.

Backfill pipe up to the springline with granular material. The ponding method of backfilling will be allowed for the granular material only.

**Item 465 Manholes and Inlets**

Place concrete inverts in all inlets & manholes/Jct Boxes. This work will not be paid for directly but will be considered subsidiary to this item.

**Item 496 Removing Structures**

Provide the Engineer a minimum of 15 working days' notice prior to beginning bridge demolition.

Removal of the approach slabs are considered subsidiary to this item.

**Item 502 Barricades, Signs, and Traffic Handling**

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.

Temporary rumble strips will be required as shown on WZ(RS)-14 regardless of loose gravel, and/or soft or bleeding asphalt. Adjust the traffic control setup such that rumble strips are not placed in areas of heavily rutted pavements, unpaved surfaces, or horizontal curves.

The contractor shall have the option of using either plastic drums, vertical panels, grabber cones or a combination where drums are shown as channelizing devices, as approved by the engineer. Plastic drums shall be used in all transition areas in accordance with BC(8)-14 and WZ(TD)-13.

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Notify the engineer 24 hours prior to any lane closure.

**Item 504 Field Office and Laboratory**

The following buildings will be required for this project:

One Type (D) structure, asphalt mix control laboratory

Each building shall be provided before work is begun on the pertinent construction items for which it is needed.

Any laboratory furnished shall be a minimum of 10 ft in width.

Chain link security fence will be required to be placed around the perimeter of all field offices. The dimensions of the fence will be as directed by the engineer.

The Type D structures shall be equipped with the following in addition to requirements specified under item 504:

- a. Safety equipment
  - (1) One eye wash station
  - (2) One fire extinguisher
  - (3) One first aid kit

Furnish a Type D structure for the asphalt mix control laboratory for the engineer's exclusive use. In addition to requirements of item 504, this structure shall have a minimum height of 8 feet and provide a minimum 400 square feet gross floor area for permanently located plants or 200 square feet for temporary located plants serving one project. The floor area will be partitioned into a minimum of two interconnected rooms, each room furnished with an exterior door and a minimum of two windows. The floor shall have sufficient strength to support the testing equipment and have an impervious covering.

The Type D structures shall be adequately air conditioned and be furnished with a minimum of one desk, three chairs, one file cabinet, a telephone and one built-in equipment storage cabinet for the storage of nuclear equipment. The cabinet shall be a minimum of 3 feet wide by 2 feet deep by 3 feet high and shall have provisions for locking security. The structure shall be provided with a 240-volt electrical service entrance. The service shall consist of a minimum of 4 - 120 volt circuits with 20 amp breakers and no more than two grounded convenience outlets per circuit and provisions for a minimum of two 220-volt ovens with vents to the outside. The structure shall have a minimum of 2 convenience outlets per wall, and a utility sink with an adequate clean potable water supply for testing. The state building shall be equipped with a minimum hot water dispenser or hot water heater capable of generating 1 gallon of water per

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use at 140 degree f with adequate water pressure. Space heaters for heating the structure are unacceptable. Portable structures shall be support blocked for stability and shall be tied down.

If needed, each building shall be moved to a new location as directed by the engineer. Any building that is no longer required on the job after completion of the pertinent construction items may be released to the contractor upon consent of the engineer.

**Item 506: Temporary Erosion, Sedimentation, and Environmental Controls**

Erosion control devices shall be installed as needed in coordination with the work progress, or as directed by the engineer.

**Item 514 Permanent Concrete Traffic Barrier**

The "Type 2" precast concrete traffic barrier shall be joined together using a "Type B" joint.

**Item 529 Concrete Curb, Gutter, and Combined Curb and Gutter**

Expansion joints shall be at least one-half inch thick and spaced at maximum intervals of 40 feet. Planes of weakness shall be spaced at approximately ten feet intervals. Joint material will comply with ASTM-D 1751.

**Item 542 Removing Metal Beam Guard Fence**

All MBGF, GET & TAS materials determined by the engineer to be salvageable shall remain property of the Department. Haul and stockpile all salvageable materials to the TxDOT Maintenance yard in at 7700 E Loop 335 N.

**Item 585 Ride Quality for Pavement Surfaces**

Use Surface Test Type B pay adjustment schedule 2 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

Use Surface Test Type B pay adjustment schedule 3 to evaluate ride quality of the ramps and frontage roads in accordance with Item 585, "Ride Quality for Pavement Surfaces."

**Item 610 Roadway Illumination Assemblies**

Fabricate roadway illumination assemblies in accordance with shop drawings approved by the department. Submit shop drawings for each project, or use pre-approved standard shop drawings.

For project specific shop drawings, furnish seven sets of drawings of the complete assembly in accordance with item 441, "steel structures". Deliver shop drawings to the engineer at the

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project address.

To be eligible to use pre-approved standard shop drawings, the shop drawing must be submitted and approved by the department prior to use on the project. Deviation from the pre-approved standard shop drawing will require resubmission of the shop drawings. The engineer may approve, in writing, the use of updated standard drawings in cases where the standard drawings have been updated and the updated version has been approved by the department.

For pre-approval and updates to previously approved standard shop drawings, furnish seven sets of drawings of the complete assembly in accordance with item 441, "steel structures" to the director of traffic operations division, Texas department of transportation, 125 east 11<sup>th</sup> street, Austin, Texas 78701-2483.

Copies of the standard shop drawings are on file with traffic operations division, bridge division, and the materials section of construction division. Additional shop drawings for roadway illumination assemblies built in accordance with these drawings are not required. Pre-approved shop drawing manufacturers and assembly model numbers can be found at <http://www.dot.state.tx.us/business/materialproducerlist.htm>. Category is roadway illumination and electrical supplies

The Roadway Illumination Pole (RIP-11) standard details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e. not more than) 25' above the elevation of surrounding terrain, in accordance with the "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals," 4<sup>th</sup> Edition (2001) (AASHTO Design Specifications). For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25' above the surrounding terrain, the contractor shall provide poles meeting the following requirements:

- A. **Submittals.** Following the electronic shop drawing submittal process (see [ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e\\_submit\\_guide.pdf](ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf)), the contractor shall submit to the Engineer, for approval, fabrication drawings and calculations for the poles. The drawings and calculations shall be sealed by a Texas registered or licensed professional engineer (P.E.).
- B. **Luminaire Structural Support Requirements.** Lighting poles, arms, and anchor bolt assemblies shall have a 25 year design life to safely resist dead loads, ice loads and the required basic wind speeds at the location of installation in accordance with the current edition of the AASHTO Design Specifications. For transformer base poles, the fabricator shall include transformer base and connecting hardware in calculations and shop drawing submittals. All transformer bases shall have been structurally tested to resist the theoretical plastic moment capacity of the pole. Certification of the plastic moment load test and FHWA breakaway requirement test of the model of base being furnished shall be submitted

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with the shop drawings. Shop drawings shall show breakaway base model number, and manufacturer's name and logo. Manufacturer's shop drawings shall include the ASTM designations for all materials to be used.

**Item 618 Conduit**

Conduit shall be a minimum of 24" below finish grade.

**Item 620 Electrical Conductors**

Provide breakaway electrical connectors for breakaway poles. Use bussman hebw, littlefuse leb, ferraz-shawmut feb, or equal on ungrounded conductors. For grounded conductors, use bussman het, littlefuse let, ferraz-shawmut febn, or equal. These breakaway connectors have a white colored marking and a permanently installed solid neutral. See the latest rid (2) standard for additional details.

**Item 644 Small Roadside Sign Supports and Assemblies**

Sign designs are to be approved by the engineer prior to ordering signs.

All slip base signs will have a triangular slip base with a 2-bolt clamp to prevent rotation of signpost.

A 7" x 1/2" diameter galvanized rod or #4 rebar shall be installed in the sign stub as shown on SMD(SLIP-1)-08 to prevent rotation of the sign stub in the concrete footing.

The exact location of the large and small roadside signs shall be as designated by the engineer.

The existing riprap aprons shall be removed and disposed of as approved by the engineer. This work shall not be paid for directly, but shall be considered subsidiary to the removal of foundations under this item.

Probe before drilling for foundations to determine the location of all utilities and structures. This work will not be paid for directly, but shall be considered subsidiary to bid items involved.

Details for standard signs not shown on the signing standards of the signing detail plan sheets shall be in conformance with the department's "standard Highway Sign Designs for Texas" Manual, Latest Edition.

**Item 658 Delineator and Object Marker Assemblies**

For all ground mount applications, provide hollow or tubular posts embedded in concrete using plastic wedged anchor system.

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**Item 662 Work Zone Pavement Markings**

The adhesive used for temporary flexible-reflective roadway marker tabs shall be butyl rubber pads.

**Item 677 Eliminating Existing Pavement Markings and Markers**

Do not remove any existing pavement markings in any area in which he is not able to place work zone pavement markings at the proper location within the same day.

**Item 681 Temporary Traffic Signals**

Portable temporary traffic signals will be measured on a unit basis, for each complete system including any reconfigurations. A complete system consists of two portable temporary traffic signals and the interconnect between them. A complete system also includes operation, maintenance, moving, and removing the signals. No payment will be made for removing and replacing damaged portable temporary traffic signals.

Perform all required maintenance during operation of the portable temporary traffic signal.

Record the following information:

- Dates and times when service and maintenance is performed,
- Description of service and a reason why service was performed,
- Any operational or equipment failures of the unit,
- Repairs made to the unit,
- Operational history of the unit,
- All timing parameters input into the controller.

Store the log of recorded information with the corresponding temporary traffic signal at all times.

If the portable temporary traffic signal fails during operation for any reason, program signals to flash red and immediately provide flaggers to control traffic until the portable temporary traffic signal is operational.

**Item 6001 Portable Changeable Message Sign**

Supply 4 Portable Changeable Message Signs (Type II – Lamp Matrix) for this project. This work will be paid at the unit price bid for each unit, which will include any moving, Maintenance, and removing of the PCMS. No payment will be made for removing and replacing damaged PCMS. The Portable Changeable Message Signs will become property of the Contractor at the completion of the project.

If the contractor chooses to have more than one lane closure set-up at a time, provide additional PCMS in accordance with TCP at no additional charge to the department.

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