NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 6/22/2022

Control	**0292-01-034**
Project	**F 2022(583)**
Highway	**SH 18**
County	**WINKLER**

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an adendum 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.

04/99

SUBJECT: PLANS AND PROPOSAL ADDENDUMS
PROJECT: F 2022(583) CONTROL: 0292-01-034
COUNTY: WINKLER
LETTING: 06/30/2022
REFERENCE NO: 0615

PROPOSAL ADDENDUMS

X PROPOSAL COVER
X BID INSERTS (SH. NO.: ALL)
X GENERAL NOTES (SH. NO.: C - H, O - Q)
X SPEC LIST (SH. NO.: ALL)
_ SPECIAL PROVISIONS:
ADDED:

DELETED:

X SPECIAL SPECIFICATIONS:
ADDED:

DELETED: 3089

X OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

***** Proposal Cover *****

REVISED CONTRACT TO 265 WORKING DAYS

***** Bid Insert *****

ALL BID INSERT PROPOSAL SHEETS AND E&Q SHEETS 19, 19A - 19C ARE REPLACED AS PART OF THIS ADDENDUM

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:
110-6001, 132-6007, 150-6002, 216-6001, 310-6005, 316-6017
316-6126, 508-6001, 3077-6007, 3080-6021, 3084-6001

ADDED THE FOLLOWING BID ITEMS:
105-6044, 247-6362, 251-6079, 533-6001, 3077-6075

DELETED THE FOLLOWING BID ITEMS:
105-6002, 105-6008, 247-6300, 3089-6002, 3089-6003, 3089-6009
3089-6012

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

***** General Notes *****

GENERAL NOTES PROPOSAL SHEETS C - H, O - Q AND PLAN SHEETS 18B - 18D, 18H - 18I ARE REPLACED AS PART OF THIS ADDENDUM

SHEET C ITEM 105: REVISED NOTE

SHEET D ITEM 247: ADDED NOTE

SHEET H ITEM 528: ADDED NOTE

SHEET N ITEM 3077: ADDED NOTE

SHEET O ITEM 3089: REMOVED NOTES

SHEET P - Q ITEM 6185: REVISED NOTES

NOTES SHIFTED FROM PAGE TO PAGE DUE TO THESE REVISIONS

***** Spec List *****

ADDED STANDARD SPECIFICATION ITEM 251

REMOVED SPECIAL SPECIFICATION ITEM 3089

***** Plan Sheets *****

SHEET 2 (INDEX OF SHEETS): FIXED TYPO

SHEETS 13 - 18 (TYPICAL SECTIONS): REVISED PROPOSED TYPICAL SECTIONS

SHEETS 18B - 18D, 18H - 18I (GENERAL NOTES): REFER TO GENERAL NOTES CHANGES AS NOTED ABOVE

SHEET 19, 19A - 19C (ESTIMATE & QUANTITY): REFER TO BID INSERT CHANGES AS NOTED ABOVE

SHEETS 20 - 23, 26: REVISED QUANTITIES, ADDED ITEMS, DELETED ITEMS

SHEETS 30 - 31: REVISED PHASE NARRATIVE

SHEET 70: REVISED TCP PHASE II STA 27+00 TO STA 51+00

SHEETS 163 - 186: REVISED REMOVAL LAYOUT

SHEETS 190 - 193, 207 - 208, 215, 217, 226 - 227: REVISED PLAN AND PROFILE SHEETS

SHEET 240: REVISED DRIVEWAY DETAIL

SHEETS 274 - 282: REVISED CROSS CULVERT LAYOUTS

Control	**0292-01-034**
Project	**F 2022(583)**
Highway	**SH 18**
County	**WINKLER**

PROPOSAL TO THE TEXAS TRANSPORTATION COMMISSION

2014 SPECIFICATIONS

WORK CONSISTING OF HIGHWAY IMPROVEMENT

WINKLER COUNTY, TEXAS

The quantities in the proposal are approximate. The quantities of work and materials may be increased or decreased as considered necessary to complete the work as planned and contemplated.

This project is to be completed in 265 working days and will be accepted when fully completed and finished to the satisfaction of the Executive Director or designee.

Provide a proposal guaranty in the form of a Cashier's Check, Teller's Check (including an Official Check) or Bank Money Order on a State or National Bank or Savings and Loan Association, or State or Federally chartered Credit Union made payable to the Texas Transportation Commission in the following amount:

ONE HUNDRED THOUSAND (Dollars) **($100,000)**

A bid bond may be used as the required proposal guaranty. The bond form may be detached from the proposal for completion. The proposal may not be disassembled to remove the bond form. The bond must be in accordance with Item 2 of the specifications.

Any addenda issued amending this proposal and/or the plans that have been acknowledged by the bidder, become part of this proposal.

By signing the proposal the bidder certifies:

1. the only persons or parties interested in this proposal are those named and the bidder has not directly or indirectly participated in collusion, entered into an agreement or otherwise taken any action in restraint of free competitive bidding in connection with the above captioned project.
2. in the event of the award of a contract, the organization represented will secure bonds for the full amount of the contract.
3. the signatory represents and warrants that they are an authorized signatory for the organization for which the bid is submitted and they have full and complete authority to submit this bid on behalf of their firm.
4. that the certifications and representations contained in the proposal are true and accurate and the bidder intends the proposal to be taken as a genuine government record.

- **Signed: ****

(1) _____ (2) _____ (3) _____

Print Name:

(1) _____ (2) _____ (3) _____

Title:

(1) _____ (2) _____ (3) _____

Company:

(1) _____ (2) _____ (3) _____

- Signatures to comply with Item 2 of the specifications.

**Note: Complete (1) for single venture, through (2) for joint venture and through (3) for triple venture.

*** When the working days field contains an asterisk (*) refer to the Special Provisions and General Notes.**

NOTICE TO CONTRACTORS

ANY CONTRACTORS INTENDING TO BID ON ANY WORK TO BE AWARDED BY THIS DEPARTMENT MUST SUBMIT A SATISFACTORY "AUDITED FINANCIAL STATEMENT" AND "EXPERIENCE QUESTIONNAIRE" AT LEAST TEN DAYS PRIOR TO THE LETTING DATE.

UNIT PRICES MUST BE SUBMITTED IN ACCORDANCE WITH ITEM 2 OF THE STANDARD SPECIFICATIONS OR SPECIAL PROVISION TO ITEM 2 FOR EACH ITEM LISTED IN THIS PROPOSAL.

Printed Name of Authorized Signer: _____

Signature of Authorized Signer:_____ Date:_____

PROJECT F 2022(583)
COUNTY WINKLER

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	6017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	614.000	1
	104	6022		REMOVING CONC (CURB AND GUTTER) DOLLARS and CENTS	LF	1,953.000	2
	104	6036		REMOVING CONC (SIDEWALK OR RAMP) DOLLARS and CENTS	SY	2,149.000	3
	105	6022		REMOVING STAB BASE AND ASPH PAV (13") DOLLARS and CENTS	SY	79,267.000	4
	105	6044		REMOVING STAB BASE AND ASPH PAV (10") DOLLARS and CENTS	SY	187,450.000	5
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	37,245.000	6
	132	6007		EMBANKMENT (FINAL)(ORD COMP)(TY D) DOLLARS and CENTS	CY	29,983.000	7
	150	6002		BLADING DOLLARS and CENTS	HR	100.000	8
	216	6001		PROOF ROLLING DOLLARS and CENTS	HR	100.000	9
	247	6362	003	FL BS(CMP IN PLC)(TY A GR 4)(3") DOLLARS and CENTS	SY	191,030.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	251	6079		REWORK BS MTL (TY D)(SURF)(ORD COMP) DOLLARS and CENTS	SY	186,355.000	11
	310	6005		PRIME COAT (AE-P) DOLLARS and CENTS	GAL	75,595.000	12
	316	6017	002	ASPH (AC-20-5TR) DOLLARS and CENTS	GAL	139,740.000	13
	316	6126	002	AGGR(TY-PB GR-4 SAC-A) DOLLARS and CENTS	CY	3,343.000	14
	351	6019		FLEXIBLE PAVEMENT STRUCTURE REPAIR(3") DOLLARS and CENTS	SY	10,000.000	15
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	983.000	16
	400	6006		CUT & RESTORING PAV DOLLARS and CENTS	SY	295.000	17
	402	6001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	180.000	18
	403	6001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	128.000	19
	416	6032		DRILL SHAFT (TRF SIG POLE) (36 IN) DOLLARS and CENTS	LF	144.000	20
	432	6001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	57.000	21
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	16.000	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
1	464	6003	001	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	1,624.000	23
	464	6005	001	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	685.000	24
	466	6005		HEADWALL (CH - FW - 0) (DIA= 24 IN) DOLLARS and CENTS	EA	1.000	25
	467	6356		SET (TY II) (18 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	2.000	26
	467	6388		SET (TY II) (24 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	47.000	27
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	28
	502	6001	008	BARRICADES, SIGNS AND TRAFFIC HAN-DLING DOLLARS and CENTS	MO	13.000	29
	506	6042	005	BIODEG EROSN CONT LOGS (INSTL) (18") DOLLARS and CENTS	LF	1,380.000	30
	506	6043	005	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	1,380.000	31
	508	6001		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	1,410.000	32
	528	6005		LANDSCAPE PAVERS (FURN) DOLLARS and CENTS	SY	76.000	33
	529	6005		CONC CURB (MONO) (TY II) DOLLARS and CENTS	LF	168.000	34

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	529	6007		CONC CURB & GUTTER (TY I) DOLLARS and CENTS	LF	1,957.000	35
	529	6008		CONC CURB & GUTTER (TY II) DOLLARS and CENTS	LF	2,749.000	36
	530	6004		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	535.000	37
	530	6005		DRIVEWAYS (ACP) DOLLARS and CENTS	SY	3,795.000	38
	531	6002		CONC SIDEWALKS (5") DOLLARS and CENTS	SY	1,934.000	39
	531	6006		CURB RAMPS (TY 3) DOLLARS and CENTS	EA	2.000	40
	531	6008		CURB RAMPS (TY 5) DOLLARS and CENTS	EA	3.000	41
	531	6010		CURB RAMPS (TY 7) DOLLARS and CENTS	EA	12.000	42
	531	6013		CURB RAMPS (TY 10) DOLLARS and CENTS	EA	5.000	43
	533	6001		RUMBLE STRIPS (SHOULDER) DOLLARS and CENTS	LF	100,835.000	44
	533	6002		RUMBLE STRIPS (CENTERLINE) DOLLARS and CENTS	LF	38,886.000	45
	540	6002	001	MTL W-BEAM GD FEN (STEEL POST) DOLLARS and CENTS	LF	250.000	46

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	540	6016	001	DOWNSTREAM ANCHOR TERMINAL SECTION DOLLARS and CENTS	EA	1.000	47
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	1.000	48
	560	6007		MAILBOX INSTALL-S (WC-POST) TY 3 DOLLARS and CENTS	EA	4.000	49
	618	6042		CONDT (PVC) (SCH 80) (1 1/4") DOLLARS and CENTS	LF	70.000	50
	618	6046		CONDT (PVC) (SCH 80) (2") DOLLARS and CENTS	LF	230.000	51
	618	6058		CONDT (PVC) (SCH 80) (4") DOLLARS and CENTS	LF	37.000	52
	618	6059		CONDT (PVC) (SCH 80) (4") (BORE) DOLLARS and CENTS	LF	555.000	53
	620	6009		ELEC CONDR (NO.6) BARE DOLLARS and CENTS	LF	800.000	54
	620	6012		ELEC CONDR (NO.4) INSULATED DOLLARS and CENTS	LF	111.000	55
	621	6005		TRAY CABLE (4 CONDR) (12 AWG) DOLLARS and CENTS	LF	477.000	56
	624	6002		GROUND BOX TY A (122311)W/APRON DOLLARS and CENTS	EA	6.000	57
	624	6010		GROUND BOX TY D (162922)W/APRON DOLLARS and CENTS	EA	2.000	58

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	628	6145		ELC SRV TY D 120/240 060(NS)SS(E)SP(O) DOLLARS and CENTS	EA	1.000	59
	628	6152		ELC SRV TY D 120/240 060(NS)SS(N)SP(O) DOLLARS and CENTS	EA	1.000	60
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	69.000	61
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	33.000	62
	644	6007		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	16.000	63
	644	6027		IN SM RD SN SUP&AM TYS80(1)SA(P) DOLLARS and CENTS	EA	1.000	64
	644	6030		IN SM RD SN SUP&AM TYS80(1)SA(T) DOLLARS and CENTS	EA	1.000	65
	644	6033		IN SM RD SN SUP&AM TYS80(1)SA(U) DOLLARS and CENTS	EA	5.000	66
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	129.000	67
	658	6053		INSTL OM ASSM (OM-3L)(TWT)GND DOLLARS and CENTS	EA	1.000	68
	658	6057		INSTL OM ASSM (OM-3R)(TWT)GND DOLLARS and CENTS	EA	1.000	69
	658	6062		INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI) DOLLARS and CENTS	EA	3.000	70

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	662	6004		WK ZN PAV MRK NON-REMOV (W)4"(SLD) DOLLARS and CENTS	LF	353,568.000	71
	662	6012		WK ZN PAV MRK NON-REMOV (W)8"(SLD) DOLLARS and CENTS	LF	13,557.000	72
	662	6016		WK ZN PAV MRK NON-REMOV (W)24"(SLD) DOLLARS and CENTS	LF	24.000	73
	662	6017		WK ZN PAV MRK NON-REMOV (W)(ARROW) DOLLARS and CENTS	EA	24.000	74
	662	6029		WK ZN PAV MRK NON-REMOV(W)(WORD) DOLLARS and CENTS	EA	24.000	75
	662	6034		WK ZN PAV MRK NON-REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	347,116.000	76
	662	6109		WK ZN PAV MRK SHT TERM (TAB)TY W DOLLARS and CENTS	EA	17,692.000	77
	662	6110		WK ZN PAV MRK SHT TERM (TAB)TY Y DOLLARS and CENTS	EA	5,079.000	78
	662	6111		WK ZN PAV MRK SHT TERM (TAB)TY Y-2 DOLLARS and CENTS	EA	12,286.000	79
	666	6006	007	REFL PAV MRK TY I (W)4"(DOT)(100MIL) DOLLARS and CENTS	LF	1,173.000	80
	666	6030	007	REFL PAV MRK TY I (W)8"(DOT)(100MIL) DOLLARS and CENTS	LF	633.000	81
	666	6036	007	REFL PAV MRK TY I (W)8"(SLD)(100MIL) DOLLARS and CENTS	LF	13,503.000	82

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6102	007	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL) DOLLARS and CENTS	EA	13.000	83
	666	6141	007	REFL PAV MRK TY I (Y)12"(SLD)(100MIL) DOLLARS and CENTS	LF	7,855.000	84
	666	6300	007	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL) DOLLARS and CENTS	LF	10,750.000	85
	666	6303	007	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	101,735.000	86
	666	6315	007	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	139,225.000	87
	668	6076		PREFAB PAV MRK TY C (W) (24") (SLD) DOLLARS and CENTS	LF	364.000	88
	668	6077		PREFAB PAV MRK TY C (W) (ARROW) DOLLARS and CENTS	EA	33.000	89
	668	6083		PREFAB PAV MRK TY C (W) (LNDP ARROW) DOLLARS and CENTS	EA	8.000	90
	668	6085		PREFAB PAV MRK TY C (W) (WORD) DOLLARS and CENTS	EA	33.000	91
	672	6007		REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	1,204.000	92
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	4,709.000	93
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	667,872.000	94

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	677	6003		ELIM EXT PAV MRK & MRKS (8") DOLLARS and CENTS	LF	17,105.000	95
	677	6007		ELIM EXT PAV MRK & MRKS (24") DOLLARS and CENTS	LF	1,224.000	96
	677	6008		ELIM EXT PAV MRK & MRKS (ARROW) DOLLARS and CENTS	EA	22.000	97
	677	6012		ELIM EXT PAV MRK & MRKS (WORD) DOLLARS and CENTS	EA	22.000	98
	680	6002	006	INSTALL HWY TRF SIG (ISOLATED) DOLLARS and CENTS	EA	2.000	99
	680	6004	006	REMOVING TRAFFIC SIGNALS DOLLARS and CENTS	EA	1.000	100
	682	6001		VEH SIG SEC (12")LED(GRN) DOLLARS and CENTS	EA	22.000	101
	682	6002		VEH SIG SEC (12")LED(GRN ARW) DOLLARS and CENTS	EA	4.000	102
	682	6003		VEH SIG SEC (12")LED(YEL) DOLLARS and CENTS	EA	22.000	103
	682	6004		VEH SIG SEC (12")LED(YEL ARW) DOLLARS and CENTS	EA	4.000	104
	682	6005		VEH SIG SEC (12")LED(RED) DOLLARS and CENTS	EA	22.000	105
	682	6006		VEH SIG SEC (12")LED(RED ARW) DOLLARS and CENTS	EA	4.000	106

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	682	6018		PED SIG SEC (LED)(COUNTDOWN) DOLLARS and CENTS	EA	8.000	107
	682	6049		BACKPLATE W/REFL BRDR(4 SEC) DOLLARS and CENTS	EA	2.000	108
	682	6050		BACKPLATE W/REFL BRDR(5 SEC) DOLLARS and CENTS	EA	2.000	109
	682	6060		BACKPLATE W/REFL BRDR(3 SEC) DOLLARS and CENTS	EA	20.000	110
	684	6029		TRF SIG CBL (TY A)(14 AWG)(3 CONDR) DOLLARS and CENTS	LF	1,013.000	111
	684	6031		TRF SIG CBL (TY A)(14 AWG)(5 CONDR) DOLLARS and CENTS	LF	1,013.000	112
	684	6033		TRF SIG CBL (TY A)(14 AWG)(7 CONDR) DOLLARS and CENTS	LF	2,671.000	113
	686	6033		INS TRF SIG PL AM(S)1 ARM(32') DOLLARS and CENTS	EA	3.000	114
	686	6037		INS TRF SIG PL AM(S)1 ARM(36') DOLLARS and CENTS	EA	1.000	115
	686	6043		INS TRF SIG PL AM(S)1 ARM(40')LUM DOLLARS and CENTS	EA	1.000	116
	686	6045		INS TRF SIG PL AM(S)1 ARM(44') DOLLARS and CENTS	EA	2.000	117
	686	6047		INS TRF SIG PL AM(S)1 ARM(44')LUM DOLLARS and CENTS	EA	1.000	118

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	688	6001		PED DETECT PUSH BUTTON (APS) DOLLARS and CENTS	EA	8.000	119
	3077	6007		SP MIXES SP-B SAC-B PG70-22 DOLLARS and CENTS	TON	180,571.000	120
	3077	6075		TACK COAT DOLLARS and CENTS	GAL	36,774.000	121
	3080	6021		STONE-MTRX-ASPH SMAR-F SAC-A DOLLARS and CENTS	TON	30,338.000	122
	3084	6001		BONDING COURSE DOLLARS and CENTS	GAL	36,774.000	123
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	1.000	124
	6004	6031		ITS COM CBL (ETHERNET) DOLLARS and CENTS	LF	163.000	125
	6010	6002		CCTV FIELD EQUIPMENT (DIGITAL) DOLLARS and CENTS	EA	2.000	126
	6010	6003		CCTV FIELD CONTROLLER DOLLARS and CENTS	EA	2.000	127
	6010	6004		CCTV MOUNT (POLE) DOLLARS and CENTS	EA	2.000	128
	6058	6001		BBU SYSTEM (EXTERNAL BATT CABINET) DOLLARS and CENTS	EA	2.000	129
	6185	6002	002	TMA (STATIONARY) DOLLARS and CENTS	DAY	1,017.000	130

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6185	6003	002	TMA (MOBILE OPERATION) DOLLARS and CENTS	HR	200.000	131
	6306	6002		VIVDS CAM ASSY FXD LNS DOLLARS and CENTS	EA	8.000	132
	6306	6005		VIVDS CNTRL SOFTWARE DOLLARS and CENTS	EA	2.000	133
	6306	6007		VIVDS CABLING DOLLARS and CENTS	LF	1,634.000	134
				ALTERNATE NO. 1A DOLLARS and CENTS			
	464	6003	001	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	90.000	135
	4122	6003		THERMOPLASTIC PIPE (SIZE)(PP) DOLLARS and CENTS	LF	1,534.000	136

Material Specification Information

Grading Requirements

Item	Description	Grading Requirements Percent Retained - Sieves				Soil Constants		Wet Ball Mill
						L.L.	P.I.	
						Max.	Max.	Max.
		1-3/4”	7/8”	3/8”	#40			
247	Type A GR 4	0-3	10-35	20-55	65-85	40	12	40

The maximum increase in material passing the number 40 sieve resulting from the wet ball mill test shall not exceed 20%.

Cure the finished section of flex base until the moisture content is at least 3 percentage points below the optimum as or as directed by the engineer before applying the next successive course or prime coat.

There is potential for gypsum in the area and additional time may be necessary to process the subgrade and/or base material.

Contractor questions on this project will be accepted through email at the following address:

- ODA-PreLettingQuestions@txdot.gov

All contractor questions will be reviewed by the Engineer. All questions and/or responses will be posted to TxDOT’s Public FTP at the following Address:

https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/

The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

Item 5: Control of the Work

The following TxDOT Department standards have been modified for this project:

For any structures containing bird nests, schedule all work to complete the demolition of the existing structures identified in the plans between September 15, 2022 and March 15, 2023. Failure to complete this work during the specified timeframe may cause construction delays due to environmental regulations.

The existing alignment is the control for the Contractor staking. Establish reference points for the control prior to removing the existing surface.

Use Method C for construction surveying.

In the event the finished surface does not conform to the typical sections or does not meet the required IRI, rework the non-conforming area to the limits necessary and employ additional survey control as directed.

Item 6: Control of Materials

Restrict storage of equipment and materials to approved areas. The Engineer will not approve storage in any TxDOT yard.

Promptly and properly dispose of any waste generated from servicing equipment on the project.

Item 7: Legal Relations and Responsibilities

If access to the project is required through a new or unapproved driveway (i.e. Material source, stockpile location, field office, etc.), obtain an approved "Permit to Construct Access Driveway Facilities on Highway Right Of Way" (TxDOT Form 1058) before beginning any construction operations.

Utilities (public, private and TxDOT) exist throughout the project. Prior to any excavation, investigate to determine the utility locations within the project right of way. Contact the TxDOT Odessa Traffic Operations shop at 432-498-4690 to investigate and determine the location of any TxDOT utility that may exist within the project right of way. Exercise caution when excavating in areas where investigations have determined that utilities exist. The contractor is responsible for maintaining utility markings

No significant traffic generator events identified.

As an element of ensuring public safety and convenience under Article 7.2.4, the Contractor is hereby directed to open all closed lanes and shoulder and remove all traffic control devices from any areas where work is not being actively performed unless overnight traffic control is required and approved by the engineer. Removed devices must be stored outside of the clear zones near the right of way line or removed from the right of way line entirely.

Item 8: Prosecution and Progress

The following portions of the plans may affect the Contractor's planned construction sequencing. The Contractor's attention is directed to the appropriate plan sheet or standard sheet.

-Traffic Control Plan

-Storm Water Pollution Prevention Plan

-Environmental Permit, Issues And Commitments (EPIC)

-Railroad Exhibits and/or Notes

Maintain ingress and egress to side streets and private property at all times.

Initiate the installation of Item 628 “Electrical Services” as part of the initial work sequence to allow TxDOT the lead-time necessary for coordination with utility companies to establish and provide for electrical service(s) proposed for this project.

Working days will be computed and charged in accordance with Article 8. 3.1.4. “Standard Workweek.”

Incentive for early contract completion shall be based on contract administrative liquidated damage rates.

The road-user cost liquidated damages are $5,005 per day.

90 day lead time is needed to allow for sufficient time to obtain and produce materials needed for various bid items in this project.

Item 105: Removing Treated and Untreated Base and Asphalt Pavement

Saw cut and remove existing asphaltic pavement by an approved method.

80,694 cubic yards of the removed material will be the contractor’s property.

Item 110: Excavation

Broom the existing base or subgrade to remove any loose material dropped during excavation operations. This work is considered subsidiary to this item.

Before excavation and embankment operations begin, windrow all topsoil (approx. 4 inches) to be reused on side slopes or behind the proposed curb and gutter. This work is subsidiary to Item 110, "Excavation" and Item 132, "Embankment".

Item 132: Embankment

For all material with a plasticity index of less than 20, use test method Tex-113-E in lieu of test method Tex-114-E for determining the percent of density.

Material quality test requirements will be waived for material excavated from the right of way on this project and utilized in embankment.

Type D embankment material shall meet testing requirements of Type A with the exception that the specification limit for PI is between 6 and 15, and no more that 15% of the total aggregate may be field sand or other uncrushed fine aggregate.

Item 150: Blading

Use blading to construct and remove side road turnouts, rebuild existing dikes, ditch blocks, and other work as directed.

When directed, fill and grade low areas outside the embankment areas to drain.

Preserve the top 4" of topsoil outside of the work area. Preserve this material in windrows until topsoil can be replaced and seeded to stabilize all exposed terrain.

Item 216: Proof Rolling

Proof rolling will be required on rock embankments where density tests are not practical and at other locations as directed.

Item 247: Flexible Base

The estimated quantity of flexible base shown includes all roadways, intersecting streets and driveways. The measured area for payment will be the crown width only. The side slope tapers are not included in the measurements for the flexible base but are considered subsidiary to this item.

For this item “Ordinary Compaction” is allowed.

Assume responsibility for the disposal of all boulders not fractured during ordinary rolling methods and those too large to be incorporated into the foundation course as approved.

Maintain moisture during compaction as directed by the Engineer. Determine the moisture content of the material in accordance with Tex-115-E or Tex-103-E as directed by the Engineer.

Item 302: Aggregates for Surface Treatments

Flakiness index for aggregates will not be required on this project.

Coat aggregate with 1.0 percent by weight of residual bitumen.

Use an unmodified asphalt with a minimum performance grade of 64-16 (PG 64-16) or better for aggregate pre-coating.

Use a liquid asphalt anti-stripping agent of a type and at a rate approved by the Engineer.

Item 310: Prime Coat

MC-30 will have a minimum 72 hour curing time or as directed by the engineer.

Item 316: Seal Coat

Furnish Class A aggregate for the surface course.

Do not apply asphalt cement between August 31st and May 1st unless authorized in writing.

Place a string line or other suitable marking where needed to assure smooth neat lines or as directed.

Surface treat the existing surfaced intersections, auxiliary lanes, curve widenings and widened dip sections plus any additional areas encountered during construction to conform to the existing surface. The limits are the greater of the end of the curb returns, the right of way line, or the adjacent traffic lane.

Rates are shown in the plans.

Perform rock land and shoot test strips for each day's work at each location or as directed by the Engineer.

Provide the Engineer with this information prior to the seal coat application. Provide control that is acceptable to the Engineer for yield calculations.

Ensure that all sealed expansion joints on bridges are covered by an approved method immediately prior to seal coat application. Keep the expansion joints covered until sweeping operations are complete. This work will be paid for under Item 316 as part of surface preparation.

Wet the stockpile of aggregate prior to use.

The use of a variable rate nozzle will be required on this project as determined by the engineer.

Contractor shall provide a list of stockpile locations prior to any material placed on the job site. Contractor shall have the Engineer and Odessa District Environmental Officer approve any and all stockpile locations prior to stockpiling of aggregate or other material. Stockpile locations will not be permitted on or adjacent to landscaped and non-mow areas.

As seal coat operations are completed at each location, clean and level all stockpile locations to the satisfaction of the Engineer.

Clean up paper, asphalt and excess rock after seal coat placement as each reference location is completed. Contractor shall not proceed ahead more than two reference locations before clean-up operations have been accomplished at the previous completed reference locations.

Contractor shall clean and remove asphalt from unauthorized concrete at the expense of the Contractor.

Item 400: Excavation and Backfill for Structures

Aggregate for cement stabilized backfill will be an approved material.

The addition of cement stabilized backfill under the pipe will not be required for this project. However, the Contractor will be required to shape the subgrade (trench bottom) to conform to a Class C bedding in sand or loam. If rock or rock outcrops are encountered, a Class B bedding consisting of sand or chat material will be required under the pipe.

Item 402: Trench Excavation Protection

Any roadway excavation needed at proposed structures will be done before placing structures in order to minimize trench excavation protection.

Item 416: Drilled Shaft Foundations

For drilled shaft foundations for roadway illumination assemblies, provide Class C concrete with 6-1/2" slump for dry type placements in accordance with Table 2, Slump Requirements.

Item 420: Concrete Structures

Mass concrete will be measured in place.

Mass concrete will be paid for by the quantity shown in the plans.

Item 421: Hydraulic Cement Concrete

Furnish a job site curing tank equipped with a recording thermometer with the capability to chart temperatures for 24 hours, 7 days and 30 days. Furnish the Engineer with copies of the temperature records.

Furnish disposable 4” or 6” cylinder molds and caps that meet testing tolerances.

The Engineer will provide strength testing equipment for acceptance testing.

Within seven (7) days after concrete has been placed for foundations for traffic signals, roadway illumination assemblies, or high mast illumination assemblies, provide a rub finish for exposed surfaces in accordance with Item 427, Surface Finishes for Concrete, Article 4.3.3.

Furnish Type II or IP cement.

All plants and trucks may be inspected and approved by the Engineer in lieu of the NRMCA or Non-Department Engineer Sealed Certifications. The criteria and frequency of the Engineer approval of plants and trucks is the same used for NRMCA Certification.

Item 432: Riprap

Use approved expansion joint material and place between the proposed riprap and curb and gutter.

Reinforce all riprap on this project with no. 3 bars spaced 12 inches O.C.B.W. or no. 4 bars spaced at 18 inches O.C.B.W.

Broom finish all riprap on this project unless otherwise directed.

Polypropylene fiber may not be used in lieu of reinforcing steel.

In addition to reinforcing steel, polypropylene fiber is required at a rate of 1.5 lbs. /cy.

Item 467: Safety End Treatment

Provide shop drawings for pipe runners.

Item 502: Barricades, Signs, and Traffic Handling

Stop work immediately if any major traffic control element such as an advanced warning flashing panel or TMA or PCMS is not in good working order or control setup.

Maintain "No Center Line", "Do Not Pass" and "Pass With Care" signs until the permanent lane markings have been placed in accordance with plans.

Place orange fencing around sidewalk, wheelchair ramps and other pedestrian areas that pose a hazard to pedestrian traffic as directed.

Use Shoulder Drop-Off (CW8-9A) signs during construction when shoulder drop-off conditions are 3 inches or greater or as directed. Placement shall be in accordance with the "Texas Manual on Uniform Traffic Control Devices".

This project has a regulatory work zone speed reduction within the project limits. The work zone speed limit is reduced from 70 mph to 60 mph, 65 mph to 50 mph, and 55 mph to 40 mph. Placement of speed reduction zone signs shall comply with BC (3)-21. Speed resumption sign(s) is required at the end of a speed reduction zone.

Place chevrons, at a minimum, on every other drum used for outsides of curves, merging tapers and shifting tapers.

Vertical panels shall be self-righting.

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.

When construction operations result in a drop-off of more than 2 inches, a 3:1 or flatter slope will be required. The slope must be constructed with a compacted material capable of supporting vehicles as approved by the Engineer. This work shall be done expeditiously during daylight hours. Flaggers and appropriate signing to safely guide traffic through the work area will be required as directed by the Engineer. This shall be considered subsidiary to Item 502.

Item 504: Field Office and Laboratory

Provide a Type D structure (asphalt mix control laboratory) adequately air conditioned and furnished with a minimum of one desk, three chairs, and one file cabinet. The structure will be provided with a 240 volt electrical service entrance. The service shall consist of a minimum of four 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 will have a minimum of two (2) convenience outlets per wall, and a utility sink with an adequate clean potable water supply for testing. Space heaters for heating the structure are unacceptable. Portable structures will be support blocked for stability and be tied down.

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

In accordance with the Construction General Permit (CGP), erosion control and stabilization measures should be initiated as soon as practicable to include (list what our stabilization measures are – for example, replacing topsoil from windrow, erosion control blankets, seeding, etc.)

It is not anticipated that erosion control devices will be needed on this project. In the event that devices are needed, the Storm Water Pollution Prevention Plan shall consist of using the following

items and/or items as directed by the Engineer. Payment for the work may be determined in accordance with Item 4, Article 4. "Changes in the Work".

-Biodegradable Erosion Control Logs

The total disturbed area for this project is 64.2 Acres. The disturbed area in this project, all project locations in the contract, and 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 any required authorization from the TCEQ for any Contractor PSLS for construction support activities on or off the right of way. When the total area disturbed for all projects 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 right of way, to the Engineer (or to the appropriate MS4 operator when on an off-state system route).

Upon acceptance of the project, all SW3P devices will become property of the State and maintenance responsibility is transferred to the State until final stabilization is attained.

When applying cement for emulsion, asphalt treatment, or any other soil stabilization, sprinkle water as needed to control cement from blowing and contaminating adjacent vegetation and waters.

Item 528: Landscape Pavers

Contractor to furnish pavers.

Item 529: Concrete Curb, Gutter, and Combined Curb And Gutter

Use and place approved expansion joint material between the existing curb and the proposed curb and at least every 50 feet in the proposed curb sections.

Use polypropylene fiber reinforcing when required at a rate of 1.5 lbs./cy in lieu of wire reinforcing.

Polypropylene fibers may not be used in lieu of reinforcing steel.

After construction, restore the adjacent surface to a condition approved by the Engineer. Consider this work subsidiary to this bid item.

Item 530: Intersections, Driveways, and Turnouts

Reinforce concrete driveways with no. 3 bars spaced at 12" O.C.B.W. or with #4 bars spaced at 18" O.C.B.W.

Surface treat turnouts before the roadway is treated with the second one course surface treatment.

Polypropylene fiber may not be used in lieu of reinforcing steel.

In addition to reinforcing steel, polypropylene fiber is required at a rate of 1.5 lbs./cy.

Item 531: Sidewalks

Polypropylene fiber may not be used in lieu of reinforcing steel.

Polypropylene fiber reinforcing is required at a rate of 1.5 lbs./cy in lieu of wire reinforcing.

Item 540: Metal Beam Guard Fence

Provide steel post for this project.

Item 618: Conduit

Place a single continuous piece of warning tape in accordance with this item along the entire length of each underground conduit installation. Locate warning tape approximately twelve inches above conduit as indication that a buried electrical line exists below the tape. Cement stabilized backfilled conduit is exempt from this requirement. Comply with warning tape requirements for any installation of buried conduit, including portions of conduit located outside of cement stabilized backfill.

When trenched conduit is proposed beneath roadways under construction, install conduit after grading operations have been completed and before any surfacing begins at that location.

When shown on the plans as bored conduit, install conduit by an approved directional boring method.

Maintain a minimum 24” depth from finish grade to top of conduit for conduit proposed beneath pavement.

Use an approved ditching method. Place and backfill conduit proposed beneath existing pavement in accordance with the section shown in the plans. Schedule and complete work so that all lanes open to traffic at night.

For conduit raceways that are intended to remain empty or unused, extend the lower end of conduit from the face of the foundation to a minimum of 1’ beyond the edge of the foundation or the riprap apron, whichever is farthest, and use conduit cap fittings for both ends of conduit. Do not glue caps or use duct tape when capping ends of conduit raceways that are intended to remain empty. Prevent dirt and debris from entering raceways during construction by temporarily capping both ends of open raceways. Other than conduit raceways that are intended to remain unused, fit each exposed end of raceways with a bushing. Where steel raceway is used, install a ground-type bushing and connect the bushing and ground rod with a bonding jumper.

Item 620: Electrical Conductors

Note the requirements of Item 7, Article 18. Electrical Requirements, of the standard specifications.

Do not exceed four hundred and fifty feet (450’) between ground boxes where conduit and conductor is used.

Item 628: Electrical Services

Initiate and complete the construction of all electrical services at the earliest possible time to facilitate lead-time required to coordinate with utility companies and establish power for the proposed electrical service(s.)

Before construction or installation of any electrical service(s) on this project, contact TxDOT Odessa Traffic Operations shop at 432-498-4690 to facilitate coordination with the appropriate energy company or companies.

Physically identify the location for each proposed electrical service on the project, and request the physical address for each proposed electrical service identified; the Engineer will provide the physical address for each respective location. Permanently mark the physical address of any proposed electrical service on the respective meter base lid. Use one of two methods for permanent marking. For the preferred method of marking, use an approved die-stamp, with a minimum ½" height of alpha-numeric characters and stamp physical address on meter base lid. After stamping, apply coating of zinc-rich paint to the stamped area. Do not damage meter base. Replace meter base if determined by the Engineer as damaged or unacceptable. No additional compensation will be made for replacement of meter bases in the event an unacceptable determination is made. When approved, use an alternate method of marking by providing a brass or aluminum plate tag with the physical address embossed by a machine-stamp process. Affix this tag to the meter base by a method approved by the Engineer. Provide a sample of a stamped plate tag for approval of this alternate method. The permanent physical address is required to be marked on the meter base prior to initiation of electrical service. Materials, labor, tools, equipment and incidentals necessary to complete this work will be considered as subsidiary to Item 628, "Electrical Services".

Use materials from the Prequalified Material Producer Lists as shown on the Texas Department of Transportation (TxDOT) – Construction Division's (CST) Material Producer List. See TxDOT website (www.TxDOT.gov) - business > resources > material producer list - for list of prequalified manufacturers. Category is "Roadway Illumination and Electrical Supplies." No substitutions will be allowed for materials found on this list."

For incidental material and parts necessary for construction of electrical services, including the service entrance weather-head, rigid metal conduit (RMC) and PVC conduit, conduit fittings, service conductors, circuit breakers, ground rods and clamps, grounding bushing(s), and mounting hardware including straps and channel brackets for conduit support, furnish products and/or materials that comply with the plans and specifications. Prior to construction of any electrical service, submit to the Engineer respective catalog cut sheets for incidental materials and parts. Electrical services constructed of materials or parts which do not comply with the plans and specifications will be cause for rejection of a portion or all of the work.

Install photocell(s) facing north when practical.

Item 644: Small Roadside Sign Assemblies

All new sign supports for stop and yield signs will have a 12” red strip of Type C High Specific Intensity Reflective tape. Place the top of the tape 4’ above the edge of the roadway. This work will not be paid for directly and will be subsidiary to the pertinent bid item.

For standard small sign details and dimensions, refer to the “Standard Highway Sign Designs for Texas (SHSD)”; a supplement to the Texas Manual on Uniform Traffic Control Devices (TMUTCD)".

Locate and mark existing reference marker(s) perpendicular to the road and along the right of way, or as directed, prior to removal. Erect new reference marker(s) at the original location, upon completion of construction.

Only bolt clamp style slip bases will be allowed for sign assemblies. Set screws will not be allowed.

Item 656: Foundations for Traffic Control Devices

Install a 5/8" x 8' copper clad ground rod in all signal poles and signal controller foundations, and make a system ground connection at the ground rod in addition to the ground connection required by the standard sheet, “Traffic Signal Controller Slab And Base”. Maintain two inches (2") of ground rod extension above the finish surface of the foundation. Material, labor, tools, and incidentals necessary to provide and install this ground rod are considered subsidiary to the various bid items**.**

Item 658: Delineator and Object Marker Assemblies

Delineator and object marker assembly posts shall be composed of post-consumer recycled materials. Embedded stub shall be perforated square tubing.

Item 662: Work Zone Pavement Markings

After permanent pavement markings are placed, pull tabs from hot mix surface and/or cut off tabs flush with the pavement on seal coat surface. Remove tabs from the project and dispose of properly.

Materials used for non-removable work zone pavement markings will be paint and beads or other approved materials.

Item 666 Retroreflectorized Pavement Markings

Type I markings shall meet the minimum retroreflectivity values defined by Article 4.4 Retroreflectivity Requirements.

This Contract totals more than 200,000 feet of pavement markings; use a mobile retroreflectometer for retroreflectivity measurements. Portable retroreflectometers may not be used for this Contract.

Place Type I pavement markings with a ribbon-gun application.

Measure thickness for markings in accordance with Tex-854-B using usage rates (Part II).

Item 668: Prefabricated Pavement Markings

Do not tab or use existing RR pavement markings for placement of proposed RR pavement marking; place proposed RR pavement markings in accordance with standard RCD(1)-16 and RCD(2)-16.

Item 672: Raised Pavement Markers

Do not place raised pavement markers until the micro-surfacing has cured a minimum of 48 hours.

Item 677: Eliminating Existing Pavement Markings and Markers

Submit eliminating plan for approval by the Engineer in accordance with Item 677.

Item 680: Highway Traffic Signals

Wire signal installations to operate in accordance with the phase diagrams shown in the plans. Set time intervals as directed.

Use aluminum signal heads and components for this project.

Provide an approved technician who is available at all times by an on-call basis for maintenance of any installed signal equipment during the period of time in which installed signals are operating, including the test period for this project.

Provide a minimum length of 24" for each signal cable in each signal pole. All conductors are to be continuous without splices between terminals.

Remove existing foundations which are to be abandoned a minimum of one foot (1') below subgrade or two feet (2') below natural ground. This work is considered subsidiary to Item 680, "Highway Traffic Signals".

When D3-1 signs are required, provide one piece 0.080" (80 mil) thick aluminum alloy sheet sign blank with Type C (high specific intensity) green sign background and Type C (high specific intensity) white letters, border, and/or symbols in accordance with the details shown on the plans.

The city of Kermit will supply all equipment for Opticom emergency vehicle systems. The city will install Opticom equipment in the controller cabinet. Contractor will install Opticom cable and proposed detectors on signal mast arms or poles. Work or incidentals necessary to install Opticom system equipment will be considered subsidiary to various bid items. Opticom system quantities are for Contractor information only and are approximate as follows:

Discriminator modules - 8 ea.
Opticom detectors - 8 ea.
Opticom detector cable - 1305 lf

Initially operate traffic signals at new locations in flash mode until such time as is approved so that phase sequencing may be initiated.

Ensure the safe movement of traffic through any intersection where construction renders an existing traffic signal inoperable. Enlist off-duty law enforcement officers to assist in maintaining safe and efficient traffic movement through a disabled signalized intersection. Give the Engineer 48 hours advance notification prior to disabling any traffic signal and at that time inform the Engineer of the method or methods of ensuring safe movement of traffic through the intersection. Enlistment of off-duty law enforcement will not be paid for directly, but is considered subsidiary to this bid item.

Changes in the locations of poles, conduit, pull boxes, or other items as shown on the plans may be made in those instances deemed necessary, or when requested by the Contractor and approved.

Replace any LEDs that fail during the thirty (30) day test period in a timely manner. Equipment and incidentals necessary for replacement of failed LEDs are considered subsidiary to the various bid items and will not be paid for directly.

Supply a TS-2 Type 1 traffic signal controller assembly with an Intelight X3 Controller. Verify the controller has Ethernet capability, an internal embedded web page (web server), along with internal Power over Ethernet (POE), and 4 port harden internal Ethernet switch. The web browser and controller must have the capability to have separate passwords and both are I.P. addressable. Provide the controller with the latest firmware release. Provide the software and all necessary components for an intelligent detection control system. Provide Cabinet Option 4 as defined by DMS-11170.

Item 682: Vehicle and Pedestrian Signal Heads

Replace any LEDs that fail during the thirty (30) day test period in a timely manner. Equipment and incidentals necessary for replacement of failed LEDs are considered subsidiary to the various bid items and will not be paid for directly.

Use aluminum signal heads and components for this project.

Item 684: Traffic Signal Cables

Attach permanent non-metallic tags to each signal cable in the access compartment of each signal pole and inside the traffic signal controller cabinet. Conductor(s) and/or cable(s) which connects signal heads to the terminal block will be tagged to indicate which specific signal head is being served. Signal cable at the traffic signal controller cabinet will be tagged to identify separate signal phases. Material, labor, tools, equipment, and incidentals are necessary to perform this work are subsidiary to the various bid items.

Item 3077: Superpave Mixtures

Binder:

Provide a binder that has a Performance Grade of 70 -22 (PG 70 -22) for the SP-B mix.

Aggregate quality:

Blending of SAC A and SAC B material will not be allowed for coarse aggregates.

Furnish Class B aggregate for the Type SP-B mix.

Furnish aggregates for the shoulders and/or ramps that meet project SAC requirements.

Mixture design:

Design a mixture with a gradation that has stone on stone contact and passes below the reference zone.

Test method Tex-530-C (Boil Test) will not be required.

Placement:

Contractor can exceed the maximum 4" per lift if directed by the Engineer.

Semi-trailer type vehicles are prohibited from dumping directly into the finishing machine for the finished surface unless the trailer is equipped with an auger slatted chain or another approved conveyor.

No more than 10% RAP will be allowed in non-surface courses.

No RAS will be allowed.

Mineral filler will not be allowed.

Lime will not be allowed as an anti-stripping agent.

Field sand will not be allowed.

Item 3080: Stone-Matrix Asphalt

Binder:

Furnish Type I asphalt-rubber binder containing Grade C rubber.

Aggregate quality:

Provide Class A aggregate. Blending of SAC A and SAC B material will not be allowed for the coarse aggregate.

Magnesium sulfate soundness loss will not be greater than 20 percent when Class A aggregate is required.

Mixture design:

Test method Tex-530-C (Boil Test) will not be required.

Placement:

Semi-trailer type vehicles are prohibited from dumping directly into the finishing machine for the finished surface unless the trailer is equipped with an auger slatted chain or another approved conveyor.

No RAP will be allowed in the surface course.

No RAS will be allowed.

Mineral filler will not be allowed.

Lime will not be allowed as an anti-stripping agent.

Field sand will not be allowed.

Item 6001: Portable Changeable Message Sign

PCMS shall be placed in operation a minimum of one (1) week prior to construction. Location(s) and duration for PCMS shall be as directed by the Engineer;

Item 6185: Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)

General Note 5 of TCP (1-1)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

General Note 6 of TCP (1-2)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

General Note 7 of TCP (1-3)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

General Note 5 of TCP (1-4)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

General Note 9 of TCP (1-6)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

General Note 5 of TCP (2-1)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate

for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

General Note 8 of TCP (2-3)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

General Note 6 of TCP (2-4)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

General Note 4 of TCP (2-5)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

Basis of Estimate for Stationary TMAs				
		TMA (Stationary)		
Phase	Standard	Required	Optional	Total
I	TCP(2-3)-18, TCP(2-4)-18	2	1	3
II	TCP(2-3)-18, TCP(2-4)-18	2	1	3
III	TCP(2-3)-18	2	1	3

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (3-1)-13; the shadow vehicle(s) with TMA specified on the traffic control plan as "required" is the quantity that has been estimated for this operation.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (3-3)-14; the shadow vehicle(s) with TMA specified on the traffic control plan as "required" is the quantity that has been estimated for this operation.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (3-4)-13; the shadow vehicle(s) with TMA specified on the traffic control plan as "required" is the quantity that has been estimated for this operation.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (3-5)-18; the shadow vehicle(s) with TMA specified on the traffic control plan as "required" is the quantity that has been estimated for this operation.

Basis of Estimate for Stationary TMAs			
	TMA (Mobile Operation)		
Standard	Required	Optional	Total
TCP(3-1)-13	2	0	2
TCP(3-3)-14	2	0	2

The Contractor will be responsible for determining if one or more operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

CONTROL : 0292-01-034
PROJECT : F 2022(583)
HIGHWAY : SH 18
COUNTY : WINKLER

TEXAS DEPARTMENT OF TRANSPORTATION

GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION NOVEMBER 1, 2014. STANDARD SPECIFICATIONS ARE INCORPORATED INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 104 REMOVING CONCRETE
ITEM 105 REMOVING TREATED AND UNTREATED BASE AND ASPHALT PAVEMENT
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (100)(160)(204)(210)(216)(260)(400)
ITEM 150 BLADING
ITEM 216 PROOF ROLLING (210)
ITEM 247 FLEXIBLE BASE (105)(204)(210)(216)(520)
ITEM 251 REWORKING BASE COURSES (204)(210)(216)(247)(520)
ITEM 310 PRIME COAT (300)(316)<3096>
ITEM 316 SEAL COAT (210)(300)(302)(340)(520)<3096>
ITEM 351 FLEXIBLE PAVEMENT STRUCTURE REPAIR (132)(204)(247)(260)(263)(275)(276)(292)(310)(316)(330)(334)(340)<341><3076>
ITEM 360 CONCRETE PAVEMENT (421)(422)(438)(440)(529)(585)
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (110)(132)(401)(402)(403)(416)(420)(421)(423)
ITEM 402 TRENCH EXCAVATION PROTECTION
ITEM 403 TEMPORARY SPECIAL SHORING (410)(411)(423)
ITEM 416 DRILLED SHAFT FOUNDATIONS (405)(420)(421)(423)(440)(448)
ITEM 432 RIPRAP (247)(420)(421)(431)(440)
ITEM 464 REINFORCED CONCRETE PIPE (400)(402)(403)(467)(476)
ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(432)(440)(464)
ITEM 467 SAFETY END TREATMENT (400)(420)(421)(432)(440)(442)(445)(460)(464)
ITEM 500 MOBILIZATION
ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
ITEM 504 FIELD OFFICE AND LABORATORY
ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS (161)(432)(556)
ITEM 508 CONSTRUCTING DETOURS

ITEM 528 COLORED TEXTURED CONCRETE AND LANDSCAPE PAVERS (132)(247)(275)(401)(420)(421)(440)
ITEM 529 CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER (360)(420)(421)(440)
ITEM 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247)(260)(263)(275)(276)(292)(316)(330)(334)(340)<341>(360)(421)(440)<3076>
ITEM 531 SIDEWALKS (104)(360)(420)(421)(440)(530)
ITEM 533 MILLED RUMBLE STRIPS
ITEM 540 METAL BEAM GUARD FENCE (421)(441)(445)(529)
ITEM 544 GUARDRAIL END TREATMENTS
ITEM 560 MAILBOX ASSEMBLIES
ITEM 618 CONDUIT (400)(476)
ITEM 620 ELECTRICAL CONDUCTORS (610)(628)
ITEM 621 TRAY CABLE (620)
ITEM 624 GROUND BOXES (420)(421)(432)(440)(618)(620)
ITEM 628 ELECTRICAL SERVICES (441)(445)(449)(618)(620)(627)(656)
ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421)(440)(441)(442)(445)(636)(643)(656)
ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(668)(672)(677)
ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS (316)(502)(662)(677)(678)<6438>
ITEM 668 PREFABRICATED PAVEMENT MARKINGS (678)
ITEM 672 RAISED PAVEMENT MARKERS (677)(678)
ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)(302)(316)<3096>
ITEM 680 HIGHWAY TRAFFIC SIGNALS (416)(610)(618)(620)(624)(625)(627)(628)(636)(656)(682)(684)(686)(688)
ITEM 682 VEHICLE AND PEDESTRIAN SIGNAL HEADS
ITEM 684 TRAFFIC SIGNAL CABLES
ITEM 686 TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (416)(421)(441)(442)(445)(449)
ITEM 688 PEDESTRIAN DETECTORS AND VEHICLE LOOP DETECTORS (618)(624)(682)(684)

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

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY, 2012)
WAGE RATES
SPECIAL PROVISION "NONDISCRIMINATION" (000---002)
SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT" (000---003)
SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246" (000---004)
SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS" (000---005)
SPECIAL PROVISION "ONTHEJOB TRAINING PROGRAM" (000---006)

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SPECIAL PROVISION "AMERICANS WITH DISABILITIES ACT CURB RAMP WORKSHOP
                  " (000---025)
SPECIAL PROVISION "CERTIFICATE OF INTERESTED PARTIES (FORM 1295)"
                    (000--1019)
SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--1236)
SPECIAL PROVISION "CARGO PREFERENCE ACT REQUIREMENTS IN FEDERAL AID
                    CONTRACTS" (000---241)
SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERALAID
                    CONTRACTS" (000---394)
SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---395)
SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---658)
SPECIAL PROVISION "NOTICE OF CONTRACTOR PERFORMANCE EVALUATIONS"
                    (000---659)
SPECIAL PROVISIONS TO ITEM     2  (002---009)(002---011)(002---013)
SPECIAL PROVISIONS TO ITEM     3  (003---011)(003---013)
SPECIAL PROVISIONS TO ITEM     5  (005---002)(005---003)
SPECIAL PROVISIONS TO ITEM     6  (006---001)(006---012)
SPECIAL PROVISIONS TO ITEM     7  (007---004)(007---008)(007---010)
                                  (007---011)
SPECIAL PROVISIONS TO ITEM     8  (008---003)(008---030)(008---033)
SPECIAL PROVISIONS TO ITEM     9  (009---010)(009---011)
SPECIAL PROVISION  TO ITEM   247  (247---003)
SPECIAL PROVISION  TO ITEM   300  (300---020)
SPECIAL PROVISION  TO ITEM   302  (302---003)
SPECIAL PROVISION  TO ITEM   316  (316---002)
SPECIAL PROVISION  TO ITEM   334  (334---003)
SPECIAL PROVISION  TO ITEM   340  (340---004)
SPECIAL PROVISION  TO ITEM   341  (341---004)
SPECIAL PROVISION  TO ITEM   342  (342---005)
SPECIAL PROVISION  TO ITEM   344  (344---005)
SPECIAL PROVISION  TO ITEM   346  (346---004)
SPECIAL PROVISION  TO ITEM   347  (347---003)
SPECIAL PROVISION  TO ITEM   348  (348---004)
SPECIAL PROVISION  TO ITEM   421  (421---010)
SPECIAL PROVISION  TO ITEM   440  (440---004)
SPECIAL PROVISION  TO ITEM   441  (441---004)
SPECIAL PROVISION  TO ITEM   442  (442---001)
SPECIAL PROVISION  TO ITEM   448  (448---001)
SPECIAL PROVISION  TO ITEM   449  (449---002)
SPECIAL PROVISION  TO ITEM   464  (464---001)
SPECIAL PROVISION  TO ITEM   502  (502---008)
SPECIAL PROVISION  TO ITEM   506  (506---005)
SPECIAL PROVISION  TO ITEM   520  (520---002)
SPECIAL PROVISION  TO ITEM   540  (540---001)
SPECIAL PROVISION  TO ITEM   636  (636---001)
SPECIAL PROVISION  TO ITEM   643  (643---001)
SPECIAL PROVISION  TO ITEM   656  (656---001)
SPECIAL PROVISION  TO ITEM   666  (666---007)
SPECIAL PROVISION  TO ITEM   680  (680---006)
SPECIAL PROVISION  TO SPECIAL SPECIFICATION ITEM  6185  (6185--002)


SPECIAL SPECIFICATIONS:
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ITEM 3002 SPRAY APPLIED UNDERSEAL MEMBRANE (320)
ITEM 3076 DENSE-GRADED HOT-MIX ASPHALT <300><301><316><320><340>
<341><342><347><348><520><585><3079><3081><3082><3096>
ITEM 3077 SUPERPAVE MIXTURES <300><301><316><320><342><344><347>
<348><520><585><3079><3081><3082><3096>
ITEM 3079 PERMEABLE FRICTION COURSE (PFC) <300><301><320><342><520>
<585><3096>
ITEM 3080 STONE-MIX ASPHALT <300><301><320><346><520><585><3096>
ITEM 3081 THIN OVERLAY MIXTURES (TOM) <300><301><320><347><520>
<585><3096>
ITEM 3082 THIN BONDED FRICTION COURSES <210><300><301><320><342>
<348><520><585><3079><3096>
ITEM 3084 BONDING COURSE <300><3002><3096>
ITEM 3096 ASPHALTS, OILS, AND EMULSIONS
ITEM 4122 THERMOPLASTIC PIPE
ITEM 6001 PORTABLE CHANGEABLE MESSAGE SIGN
ITEM 6004 NETWORKING INTELLINGENT TRANSPORTATION SYSTEM (ITS)
COMMUNICATIONS CABLE
ITEM 6005 TESTING, TRAINING, DOCUMENTATION, FINAL ACCEPTANCE, AND
WARRANTY
ITEM 6006 ELECTRONIC COMPONENTS
ITEM 6010 CCTV FIELD EQUIPMENT (6005)(6006)
ITEM 6058 BATTERY BACK-UP SYSTEM FOR SIGNAL CABINETS (420)(620)
ITEM 6185 TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)
ITEM 6306 VIDEO IMAGING VEHICLE DETECTION SYSTEM
ITEM 6438 MOBILE RETROREFLECTIVITY DATA COLLECTION FOR PAVEMENT
MARKINGS

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH
------- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER
PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-
LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL
PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-
CATIONS FOR THIS PROJECT.