

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 1

**DATED 7/31/2012**

<b>Control</b>	<b>0166-08-043</b>
<b>Project</b>	<b>C 166-8-43</b>
<b>Highway</b>	<b>SH 75</b>
<b>County</b>	<b>WALKER</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: C 166-8-43

CONTROL: 0166-08-043

COUNTY: WALKER

LETTING: 08/08/2012

REFERENCE NO: 0731

**PROPOSAL ADDENDUMS**

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\_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 4-19 - 7-19, 17-19 )

X GENERAL NOTES (SH. NO.: SHEET A - SHEET M )

\_ SPEC LIST (SH. NO.:

\_ SPECIAL PROVISIONS:

ADDED:

DELETED:

\_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: SEE CHANGES OUTLINED BELOW

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

BID INSERTS:

SHEET 4-19: ITEM 427-2011 QUANTITY CHANGE.

SHEET 5-19: ITEM 462-2006 AND ITEM 464-2003 QUANTITY CHANGE.

SHEET 6-19: ITEM 467-2113 AND ITEM 467-2157 QUANTITY CHANGE.

SHEET 7-19: ITEM 506-2024 QUANTITY CHANGE.

SHEET 17-19: ITEM 682-2027 QUANTITY CHANGE.

GENERAL NOTES:

SHEET A - SHEET M REPLACED.

PLAN SET:

THE FOLLOWING SHEETS ARE REPLACED:

1, 23, 23A, 23B, 23C, 23D, 23E, 23F, 24, 24A, 24B, 24C, 24D, 27, 28, 37, 214

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	002	PREPARING ROW  DOLLARS and CENTS	STA	27.160	1
	100	2006	002	PREP ROW (TREE)(LESS THAN 24" DIA)  DOLLARS and CENTS	EA	25.000	2
	104	2009		REMOVING CONC (RIPRAP)  DOLLARS and CENTS	SY	739.000	3
	104	2015		REMOVING CONC (SIDEWALKS)  DOLLARS and CENTS	SY	688.000	4
	104	2017		REMOVING CONC (DRIVEWAYS)  DOLLARS and CENTS	SY	1,342.000	5
	104	2022		REMOVING CONC (CURB AND GUTTER)  DOLLARS and CENTS	LF	4,904.000	6
	105	2011		REMOVING STAB BASE AND ASPH PAV (2"- 6")  DOLLARS and CENTS	SY	532.000	7
	105	2026		REMOVE STAB BASE & ASPH PAV (13"-18")  DOLLARS and CENTS	SY	13,052.000	8
	106	2001		OBLITERATING ABANDONED ROAD  DOLLARS and CENTS	STA	5.930	9
	110	2001		EXCAVATION (ROADWAY)  DOLLARS and CENTS	CY	12,785.000	10

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	ITEM NO	DESC CODE	S.P. NO.				
	112	2002		SUBGRADE WIDENING (DENS CONT) DOLLARS and CENTS	STA	33.620	11
	132	2004		EMBANKMENT (FINAL)(DENS CONT)(TY B) DOLLARS and CENTS	CY	11,425.000	12
	134	2004		BACKFILL (TY A OR B) DOLLARS and CENTS	STA	59.450	13
	158	2003		SPEC EXCAV WORK (HYD EXCAVATOR) DOLLARS and CENTS	HR	100.000	14
	161	2002	006	COMPOST MANUF TOPSOIL (BOS) (4") DOLLARS and CENTS	SY	25,741.000	15
	162	2002		BLOCK SODDING DOLLARS and CENTS	SY	4,785.000	16
	164	2025	002	CELL FBR MLCH SEED(PERM)(URBAN)(SANDY) DOLLARS and CENTS	SY	12,872.000	17
	164	2027	002	CELL FBR MLCH SEED(PERM)(URBAN)(CLAY) DOLLARS and CENTS	SY	12,869.000	18
	164	2029	002	CELL FBR MLCH SEED(TEMP)(WARM) DOLLARS and CENTS	SY	12,872.000	19
	164	2031	002	CELL FBR MLCH SEED(TEMP)(COOL) DOLLARS and CENTS	SY	12,872.000	20

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	ITEM NO	DESC CODE	S.P. NO.				
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	301.000	21
	247	2322	033	FL BS (CMP IN PLC)(TY D GR 2)(8") DOLLARS and CENTS	SY	2,107.000	22
	247	2402	033	FL BS(CMP IN PLC)(TY D GR 2)(10") DOLLARS and CENTS	SY	4,874.000	23
	276	2224		CEM TRT(PLNT MX) (CL N)(TY E)(GR 4)(6") DOLLARS and CENTS	SY	29,593.000	24
	310	2030		PRIME COAT (MC-30 OR EC-30) DOLLARS and CENTS	GAL	7,030.000	25
	346	2014		STONE-MTRX-ASPH SMA-D SAC-A PG76-22 DOLLARS and CENTS	TON	5,396.000	26
	354	2021		PLANE ASPH CONC PAV(0" TO 2") DOLLARS and CENTS	SY	3,920.000	27
	354	2038		PLANE CONC PAV(0" TO 3") DOLLARS and CENTS	SY	928.000	28
	360	2070	003	CONC PVMT (CONT REINF-CRCP)(10.5") DOLLARS and CENTS	SY	26,384.000	29
	360	2085	003	CONC PVMT (CONT REINF-CRCP)(10.5")(HES) DOLLARS and CENTS	SY	465.000	30
	368	2003		JUNCTION TRANSITION TERMINALS DOLLARS and CENTS	LF	337.000	31

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	ITEM NO	DESC CODE	S.P. NO.				
	400	2005		CEM STABIL BKFL  DOLLARS and CENTS	CY	191.000	32
	400	2006		CUT & RESTORING PAV  DOLLARS and CENTS	SY	27.000	33
	402	2001		TRENCH EXCAVATION PROTECTION  DOLLARS and CENTS	LF	1,617.000	34
	416	2018	001	DRILL SHAFT (SIGN MTS)(24 IN)  DOLLARS and CENTS	LF	26.000	35
	416	2032	001	DRILL SHAFT (TRF SIG POLE) (36 IN)  DOLLARS and CENTS	LF	54.000	36
	416	2034	001	DRILL SHAFT (TRF SIG POLE) (48 IN)  DOLLARS and CENTS	LF	66.000	37
	420	2020	002	CL C CONC (CRASHWALL)  DOLLARS and CENTS	CY	100.700	38
	423	2009		RETAINING WALL (SOIL NAILED)(FACIA)  DOLLARS and CENTS	SF	7,436.000	39
	427	2011		CONCRETE PAINT (FAUX STONE)  DOLLARS and CENTS	SF	7,436.000	40
	432	2001		RIPRAP (CONC)(4 IN)  DOLLARS and CENTS	CY	105.000	41
	432	2002		RIPRAP (CONC)(5 IN)  DOLLARS and CENTS	CY	1.000	42

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	ITEM NO	DESC CODE	S.P. NO.				
	432	2012		RIPRAP (STONE TY F)(GROUT)(8 IN) DOLLARS and CENTS	CY	25.000	43
	462	2006	015	CONC BOX CULV (5 FT X 2 FT) DOLLARS and CENTS	LF	38.000	44
	462	2007	015	CONC BOX CULV (5 FT X 3 FT) DOLLARS and CENTS	LF	50.000	45
	462	2010	015	CONC BOX CULV (6 FT X 3 FT) DOLLARS and CENTS	LF	224.000	46
	464	2003	006	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	2,255.000	47
	464	2005	006	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	516.000	48
	464	2007	006	RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	154.000	49
	465	2001	001	INLET (COMPL)(TY C) DOLLARS and CENTS	EA	18.000	50
	465	2003	001	INLET (COMPL)(TY H) DOLLARS and CENTS	EA	1.000	51
	465	2008	001	INLET EXT (TY E) DOLLARS and CENTS	EA	26.000	52
	465	2105	001	MANH (COMPL)(TY M)(MOD) DOLLARS and CENTS	EA	1.000	53

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	ITEM NO	DESC CODE	S.P. NO.				
	466	2006		WINGWALL (SW-0)(HW=4 FT)  DOLLARS and CENTS	EA	1.000	54
	466	2051		WINGWALL (PW)(HW=7 FT)  DOLLARS and CENTS	EA	1.000	55
	466	2130		HEADWALL (CH-PW-0)(DIA= 42 IN)  DOLLARS and CENTS	EA	1.000	56
	467	2113		SET (TY I)(S= 5 FT)(HW= 3 FT)(4:1)(C)  DOLLARS and CENTS	EA	1.000	57
	467	2157		SET (TY I)(S= 5 FT)(HW= 3 FT)(6:1)(C)  DOLLARS and CENTS	EA	1.000	58
	467	2188		SET (TY I)(S= 6 FT)(HW= 4 FT)(6:1)(P)  DOLLARS and CENTS	EA	2.000	59
	467	2211		SET (TY II)(24 IN)(RCP)(3:1)(C)  DOLLARS and CENTS	EA	1.000	60
	467	2222		SET (TY II)(18 IN)(RCP)(4:1)(C)  DOLLARS and CENTS	EA	3.000	61
	467	2286		SET (TY II)(18 IN)(RCP)(6:1)(P)  DOLLARS and CENTS	EA	7.000	62
	467	2288		SET (TY II)(24 IN)(RCP)(6:1)(P)  DOLLARS and CENTS	EA	7.000	63
	467	2290		SET (TY II)(30 IN)(RCP)(6:1)(P)  DOLLARS and CENTS	EA	1.000	64

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	ITEM NO	DESC CODE	S.P. NO.				
	479	2002		ADJ INLETS  and  DOLLARS CENTS	EA	3.000	65
	496	2004		REMOV STR (SET)  and  DOLLARS CENTS	EA	16.000	66
	496	2006		REMOV STR (HEADWALL)  and  DOLLARS CENTS	EA	1.000	67
	496	2007		REMOV STR (PIPE)  and  DOLLARS CENTS	LF	266.000	68
	496	2040		REMOV STR (RET WALL)  and  DOLLARS CENTS	LF	440.000	69
	500	2001	005	MOBILIZATION  and  DOLLARS CENTS	LS	1.000	70
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING  and  DOLLARS CENTS	MO	20.000	71
	506	2002	011	ROCK FILTER DAMS (INSTALL) (TY 2)  and  DOLLARS CENTS	LF	140.000	72
	506	2009	011	ROCK FILTER DAMS (REMOVE)  and  DOLLARS CENTS	LF	140.000	73
	506	2024	011	BACKHOE WORK (EROSION & SEDM CONT)  and  DOLLARS CENTS	HR	384.000	74

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	ITEM NO	DESC CODE	S.P. NO.				
	506	2031	011	SANDBAGS FOR EROSION CONTROL DOLLARS and CENTS	EA	36.000	75
	506	2034	011	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	2,067.000	76
	508	2002		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	2,940.000	77
	508	2003		CONSTRUCTING DETOURS DOLLARS and CENTS	EA	1.000	78
	512	2008	002	PORT CTB (FUR & INST)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	760.000	79
	512	2009	002	PORT CTB (FUR & INST)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	140.000	80
	512	2026	002	PORT CTB (MOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	3,220.000	81
	512	2027	002	PORT CTB (MOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	520.000	82
	512	2044	002	PORT CTB (REMOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	760.000	83
	512	2045	002	PORT CTB (REMOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	140.000	84
	512	2048	002	PORT CTB (FUR & INST)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	720.000	85

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	ITEM NO	DESC CODE	S.P. NO.				
	512	2050	002	PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	960.000	86
	512	2052	002	PORT CTB (REMOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	720.000	87
	529	2004		CONC CURB & GUTTER (TY II) DOLLARS and CENTS	LF	4,423.000	88
	529	2006		CONC CURB (MONO) (TY II) DOLLARS and CENTS	LF	4,065.000	89
	530	2010		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	1,178.000	90
	530	2011		DRIVEWAYS (ACP) DOLLARS and CENTS	SY	511.000	91
	531	2005		CURB RAMPS (TY 1) DOLLARS and CENTS	EA	10.000	92
	531	2010		CURB RAMPS (TY 7) DOLLARS and CENTS	EA	2.000	93
	531	2015		CONC SIDEWALKS (4") DOLLARS and CENTS	SY	6,644.000	94
	545	2058		CRASH CUSH ATTEN (INSTL) (N) DOLLARS and CENTS	EA	4.000	95
	618	2018		CONDT (PVC) (SCHD 40) ( 2") DOLLARS and CENTS	LF	855.000	96

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	ITEM NO	DESC CODE	S.P. NO.				
	618	2019		CONDT (PVC) (SCHD 40) (2") (BORE) DOLLARS and CENTS	LF	584.000	97
	618	2024		CONDT (PVC) (SCHD 40) (4") DOLLARS and CENTS	LF	745.000	98
	618	2025		CONDT (PVC) (SCHD 40) (4") (BORE) DOLLARS and CENTS	LF	584.000	99
	620	2009	001	ELEC CONDR (NO. 6) BARE DOLLARS and CENTS	LF	55.000	100
	620	2010	001	ELEC CONDR (NO. 6) INSULATED DOLLARS and CENTS	LF	110.000	101
	620	2011	001	ELEC CONDR (NO. 8) BARE DOLLARS and CENTS	LF	2,699.000	102
	620	2012	001	ELEC CONDR (NO. 8) INSULATED DOLLARS and CENTS	LF	1,138.000	103
	624	2013	014	GROUND BOX TY D (162922) DOLLARS and CENTS	EA	3.000	104
	624	2014	014	GROUND BOX TY D (162922) W/APRON DOLLARS and CENTS	EA	10.000	105
	628	2325	003	ELC SRV TY D 120/240 070 (NS)AL(E)SP(U) DOLLARS and CENTS	EA	2.000	106
	636	2001	014	ALUMINUM SIGNS (TY A) DOLLARS and CENTS	SF	8.000	107

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	ITEM NO	DESC CODE	S.P. NO.				
	636	2002	014	ALUMINUM SIGNS (TY G)  DOLLARS and CENTS	SF	230.000	108
	636	2007	014	REPLACE EXISTING ALUMINUM SIGNS (TY A)  DOLLARS and CENTS	SF	28.000	109
	644	2001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	31.000	110
	644	2004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	7.000	111
	644	2006		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	8.000	112
	644	2022		IN SM RD SN SUP&AM TYS80(1)SA(P) DOLLARS and CENTS	EA	3.000	113
	644	2025		IN SM RD SN SUP&AM TYS80(1)SA(T) DOLLARS and CENTS	EA	1.000	114
	644	2027		IN SM RD SN SUP&AM TYS80(1)SA(U) DOLLARS and CENTS	EA	3.000	115
	644	2028		IN SM RD SN SUP&AM TYS80(1)SA(U-1EXT) DOLLARS and CENTS	EA	1.000	116
	644	2029		IN SM RD SN SUP&AM TYS80(1)SA(U-2EXT) DOLLARS and CENTS	EA	5.000	117

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	ITEM NO	DESC CODE	S.P. NO.				
	644	2031		IN SM RD SN SUP&AM TYS80(1)SA(U-WC) DOLLARS and CENTS	EA	9.000	118
	644	2042		IN SM RD SN SUP&AM TYS80(2)SA(P) DOLLARS and CENTS	EA	1.000	119
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	73.000	120
	647	2001		INSTALL LRSS (STRUCT STEEL) DOLLARS and CENTS	LB	1,120.900	121
	647	2002		RELOCATE LRSA DOLLARS and CENTS	EA	4.000	122
	647	2003		REMOVE LRSA DOLLARS and CENTS	EA	2.000	123
	658	2263		INSTL DEL ASSM (D-SY)SZ 1(FLX)GND DOLLARS and CENTS	EA	8.000	124
	658	2316		INSTL OM ASSM (OM-2Z)(FLX)GND DOLLARS and CENTS	EA	14.000	125
	658	2329		INSTL DEL ASSM (D-SW)SZ 1(FLX)GND DOLLARS and CENTS	EA	30.000	126
	662	2064		WK ZN PAV MRK REMOV (W) 4" (BRK) DOLLARS and CENTS	LF	360.000	127
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	15,920.000	128

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	ITEM NO	DESC CODE	S.P. NO.				
	662	2073		WK ZN PAV MRK REMOV (W) 8" (DOT) DOLLARS and CENTS	LF	44.000	129
	662	2075		WK ZN PAV MRK REMOV (W) 8" (SLD) DOLLARS and CENTS	LF	3,877.000	130
	662	2077		WK ZN PAV MRK REMOV (W) 12" (SLD) DOLLARS and CENTS	LF	120.000	131
	662	2079		WK ZN PAV MRK REMOV (W) 24" (SLD) DOLLARS and CENTS	LF	161.000	132
	662	2084		WK ZN PAV MRK REMOV (W) (ARROW) DOLLARS and CENTS	EA	12.000	133
	662	2094		WK ZN PAV MRK REMOV (W) (WORD) DOLLARS and CENTS	EA	10.000	134
	662	2096		WK ZN PAV MRK REMOV (W) 36" (YLD TRI) DOLLARS and CENTS	EA	20.000	135
	662	2098		WK ZN PAV MRK REMOV (Y) 4" (DOT) DOLLARS and CENTS	LF	66.000	136
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	28,399.000	137
	662	2106		WK ZN PAV MRK REMOV (Y) 24" (SLD) DOLLARS and CENTS	LF	60.000	138

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	ITEM NO	DESC CODE	S.P. NO.				
	662	2107		WK ZN PAV MRK REMOV (Y) 4" (BKN W/ MRKR)  DOLLARS and CENTS	LF	370.000	139
	662	2113		WK ZN PAV MRK SHT TERM (TAB) TY W DOLLARS and CENTS	EA	991.000	140
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	1,705.000	141
	666	2003		REFL PAV MRK TY I (W) 4" (BRK)(100MIL) DOLLARS and CENTS	LF	920.000	142
	666	2012		REFL PAV MRK TY I (W) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	9,362.000	143
	666	2030		REFL PAV MRK TY I (W) 8" (DOT)(100MIL) DOLLARS and CENTS	LF	342.000	144
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	8,622.000	145
	666	2042		REFL PAV MRK TY I (W) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	795.000	146
	666	2048		REFL PAV MRK TY I (W) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	394.000	147
	666	2105		REFL PAV MRK TY I (Y) 4" (BRK)(100MIL) DOLLARS and CENTS	LF	980.000	148

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	ITEM NO	DESC CODE	S.P. NO.				
	666	2108		REFL PAV MRK TY I (Y) 4" (DOT)(100MIL) DOLLARS and CENTS	LF	60.000	149
	666	2111		REFL PAV MRK TY I (Y) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	16,448.000	150
	666	2132		REFL PAV MRK TY I (Y) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	68.000	151
	666	2189		PAVEMENT SEALER 4" DOLLARS and CENTS	LF	6,700.000	152
	666	2191		PAVEMENT SEALER 8" DOLLARS and CENTS	LF	4,725.000	153
	666	2193		PAVEMENT SEALER 12" DOLLARS and CENTS	LF	682.000	154
	666	2195		PAVEMENT SEALER 24" DOLLARS and CENTS	LF	347.000	155
	668	2106		PREFAB PAV MRK TY C (W) (ARROW) DOLLARS and CENTS	EA	45.000	156
	668	2107		PREFAB PAV MRK TY C (W) (DBL ARROW) DOLLARS and CENTS	EA	6.000	157
	668	2116		PREFAB PAV MRK TY C (W) (WORD) DOLLARS and CENTS	EA	35.000	158
	668	2118		PREFAB PAV MRK TY C (W) (36")(YLD TRI) DOLLARS and CENTS	EA	34.000	159

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	ITEM NO	DESC CODE	S.P. NO.				
	668	2145		PREFAB PAV MRK TY C (W) (NUMBER) DOLLARS and CENTS	EA	1.000	160
	672	2012	034	REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	450.000	161
	672	2014	034	REFL PAV MRKR TY I-R DOLLARS and CENTS	EA	28.000	162
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	490.000	163
	672	2017	034	REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	32.000	164
	677	2001		ELIM EXT PAV MRK & MRKS ( 4") DOLLARS and CENTS	LF	9,856.000	165
	677	2003		ELIM EXT PAV MRK & MRKS ( 8") DOLLARS and CENTS	LF	561.000	166
	677	2007		ELIM EXT PAV MRK & MRKS (24") DOLLARS and CENTS	LF	328.000	167
	677	2008		ELIM EXT PAV MRK & MRKS (ARROW) DOLLARS and CENTS	EA	3.000	168
	677	2009		ELIM EXT PAV MRK & MRKS (DBL ARROW) DOLLARS and CENTS	EA	2.000	169
	677	2018		ELIM EXT PAV MRK & MRKS (WORD) DOLLARS and CENTS	EA	3.000	170

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	680	2003		INSTALL HWY TRF SIG (SYSTEM) DOLLARS and CENTS	EA	2.000	171
	681	2001	002	TEMP TRAF SIGNALS DOLLARS and CENTS	EA	3.000	172
	682	2001	001	BACK PLATE (12 IN) (3 SEC) DOLLARS and CENTS	EA	20.000	173
	682	2002	001	BACK PLATE (12 IN) (4 SEC) DOLLARS and CENTS	EA	1.000	174
	682	2022	001	VEH SIG SEC (12 IN) LED (GRN ARW) DOLLARS and CENTS	EA	7.000	175
	682	2023	001	VEH SIG SEC (12 IN) LED (GRN) DOLLARS and CENTS	EA	20.000	176
	682	2024	001	VEH SIG SEC (12 IN) LED (YEL ARW) DOLLARS and CENTS	EA	8.000	177
	682	2025	001	VEH SIG SEC (12 IN) LED (YEL) DOLLARS and CENTS	EA	20.000	178
	682	2026	001	VEH SIG SEC (12 IN) LED (RED ARW) DOLLARS and CENTS	EA	7.000	179
	682	2027	001	VEH SIG SEC (12 IN) LED (RED) DOLLARS and CENTS	EA	20.000	180
	682	2043	001	PED SIG SEC (12")(2 IND)(HOUSING ONLY) DOLLARS and CENTS	EA	12.000	181

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	684	2010		TRF SIG CBL (TY A) (12 AWG) ( 5 CONDR) DOLLARS and CENTS	LF	2,797.000	182
	684	2012		TRF SIG CBL (TY A) (12 AWG) ( 7 CONDR) DOLLARS and CENTS	LF	5,943.000	183
	686	2041		INS TRF SIG PL AM(S) 1 ARM (40') LUM DOLLARS and CENTS	EA	1.000	184
	686	2049		INS TRF SIG PL AM(S) 1 ARM (48') LUM DOLLARS and CENTS	EA	2.000	185
	686	2059		INS TRF SIG PL AM(S) 1 ARM (60') DOLLARS and CENTS	EA	2.000	186
	686	2165		INS TRF SIG PL AM(S) 2 ARM (44-36')LUM DOLLARS and CENTS	EA	1.000	187
	686	2177		INS TRF SIG PL AM(S) 2 ARM (50-28')LUM DOLLARS and CENTS	EA	1.000	188
	687	2001	004	PED POLE ASSEMBLY DOLLARS and CENTS	EA	8.000	189
	3224	2040		D-GR HMA(QCQA) TY-D PG64-22 DOLLARS and CENTS	TON	6,009.000	190
	3224	2076		D-GR HMA (QC/QA) TY B SAC-B PG (64-22) DOLLARS and CENTS	TON	4,080.000	191

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	5049	2002		BIODGRD EROSION CONTROL LOGS (18" DIA)  and  DOLLARS CENTS	LF	525.000	192
	6266	2001	017	VIVDS PROCESSOR SYSTEM  and  DOLLARS CENTS	EA	2.000	193
	6266	2002	017	VIVDS CAMERA ASSEMBLY  and  DOLLARS CENTS	EA	10.000	194
	6266	2003	017	VIVDS SET-UP SYSTEM  and  DOLLARS CENTS	EA	2.000	195
	6266	2005	017	VIVDS COMMUNICATION CABLE (COAXIAL)  and  DOLLARS CENTS	LF	3,905.000	196
	6834	2002		PORTABLE CHANGEABLE MESSAGE SIGN  and  DOLLARS CENTS	EA	4.000	197
	8260	2001		LED COUNTDOWN PEDESTRIAN MODULE  and  DOLLARS CENTS	EA	12.000	198
	8835	2001		ACCESSIBLE PEDESTRIAN SIGNAL UNITS  and  DOLLARS CENTS	EA	12.000	199

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I. General Notes:

**BASIS OF ESTIMATE**

ITEM	DESCRIPTION	COURSE	RATE	AMOUNT	QUANTITY
168	VEGETATIVE WATERING		10 GAL/SY	30,026 SY	301 MG
310	ASPHALT (MC-30 OR EC-30)	PRIME	0.20 GAL/SY	35,152 SY	7,030 GAL
346	STONE-MATRIX-ASPH SMA-D SAC A PG76-22	1.5"	173 LB/SY	6,021 SY	521 TON
346	STONE-MATRIX-ASPH SMA-D SAC A PG76-22	2"	230 LB/SY	21,117 SY	2,429 TON
346	STONE-MATRIX-ASPH SMA-D SAC A PG76-22	2.25"	259 LB/SY	354 SY	46 TON
346	STONE-MATRIX-ASPH SMA-D SAC A PG76-22	3"	345 LB/SY	37 SY	7 TON
346	STONE-MATRIX-ASPH SMA-D SAC A PG76-22	4"	460 LB/SY	2,665 SY	613 TON
346	STONE-MATRIX-ASPH SMA-D SAC A PG76-22	5"	575 LB/SY	6,189 SY	1,780 TON
506	BACKHOE WORK (EROSION & SEDM CONT)		4.0 HR/LOC	96 LOC	384 HR
3224	D-GR HMA (QCQA) TY D SAC-B PG 64-22	1.5"	173 LB/SY	28,301 SY	2,448 TON
3224	D-GR HMA (QCQA) TY D SAC-B PG 64-22	3"	345 LB/SY	8,964 SY	1,547 TON
3224	D-GR HMA (QCQA) TY B SAC-B PG 64-22	8.5"	978 LB/SY	2,064 SY	1,009 TON
3224	D-GR HMA (QCQA) TY B SAC-B PG 64-22	5.25"	604 LB/SY	177 SY	54 TON

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3224	D-GR HMA (QCQA) TY B SAC-B PG 64-22	11"	1,265 LB/SY	4,770 SY	3,017 TON
3224	*D-GR HMA (QCQA) TY-D PG64-22	LEVEL- UP	288 LB/SY	13,985 SY	2,014 TON

Note: Rates are for estimating purposes only. Actual Rates will be determined in the field.

\*Level-up HMA will be used to correct to a cross slope of 2%. Rate of 288 lb/sy is for estimating purposes only and actual rate will be determined in the field.

**B A S I S O F E S T I M A T E**

\* for contractor's information only

ITEM	DESCRIPTION	COURSE	RATE	AMOUNT	QUANTITY
166*	FERTILIZER			11.5 AC	0.345 TON

Note: Rates are for estimating purposes only.

Actual Rates will be determined in the field.

**GENERAL:**

Wiring coding will be done in accordance with the NEC (National Electrical Code). Send eligible shop plan submittals with PDF attachments directly to the reviewing office. For items with aesthetic treatments, shop drawings also require approval of the District Landscape Architect.

**ITEM 5 “CONTROL OF THE WORK”**

Earthwork cross-sections are available at the Engineer’s office at Huntsville, TX for inspection by prospective bidders. These cross-sections are for non-construction purposes only, and it is the responsibility of the prospective bidder to validate the data for this project. A free computer diskette, a computer transfer of files, or a PDF that contains the earthwork information may be obtained from the Engineer’s office. If copies of the actual cross-sections, instead of or in addition to, these files are desired, a set of cross-sections will be available at the Engineer’s office for borrowing by copying companies for the purpose of making copies for the bidder at the bidder’s expense.

**ITEM 7 “LEGAL RELATIONS AND RESPONSIBILITIES”**

State contract mowers will mow the right of way during the growing season. The Contractor will be notified by the Engineer one week in advance of the anticipated time when mowers will be in the limits of the project. Clean the right of way to such a condition that allows the mowing contractors to safely mow.

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This project is on a hurricane evacuation route. Furnish at the pre-construction meeting a written plan outlining procedures to suspend work, secure the job site and safely handle traffic through and across the project in the event of a hurricane evacuation.

During the hurricane season (June 1 through November 30), do not close any travel lanes except when the Contractor can demonstrate that he can provide labor, equipment, material, work plan, and quality of work to satisfactorily return all lanes to an open, all-weather travel surface within three days of receiving written or verbal notice but no later than 3 days prior to hurricane landfall. Construction of temporary lanes to an all weather surface will be paid in accordance with Article 9.4, "Payment for Extra Work."

In addition to lane closures, cease work 3 days prior to hurricane landfall on or near the roadway that adversely impacts the flow of traffic and reduces the capacity of the highway during an evacuation. Prohibit the Contractor's, sub-contractors' or material suppliers' vehicles from entering or exiting the stream of traffic including material hauling and delivery, and mobilization or demobilization of equipment. When directed, this prohibition will include a reasonable time period for the evacuees to return to their point of origin.

In the event of the declaration of a hurricane watch, warning, other severe weather warning or national or state emergency that requires the roadways in the vicinity be used as evacuation routes, cease all work that requires the Contractor's, sub-contractors' or material suppliers' vehicles to enter the stream of traffic on these primary or secondary evacuation routes. This work includes material hauling and delivery, and mobilization or demobilization of equipment.

The following roadways are recognized evacuation routes in the Bryan District:

Primary Evacuation Routes: IH 45, US 290, SH 6, SH 36

Secondary Evacuation Routes: US 79, US 84, SH 7, SH 30, SH 21, SH 105.

Other routes may be designated.

## **ITEM 8 "PROSECUTION AND PROGRESS"**

At the end of each work day, remove all grade differentials transverse to centerline.

At the end of each work day, provide 100 foot minimum grade tapers longitudinal to the centerline to transition differences in the profile grade line or roadway grade.

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Working days will be computed and charged in accordance with Article 8.3.A.4 Standard Workweek.

Work is allowed to be performed during the nighttime. Work that interferes with traffic is required to be performed during off-peak hours, 7 pm until 6 am. Equipment and material may be pre-staged at approved locations.

Do not close lanes, or have uneven lanes from 1 PM Friday through 7 AM Monday.

Lane closures involving IH 45 main lanes or shoulders will not be permitted on the following dates (inclusive):

2012: Nov. 21-25; Dec. 22-31;

2013: Jan. 1-6; May 25-27; July 3-7; Aug. 31; Sept. 1-2; Nov. 27-30; Dec. 1; Dec. 23-31;

2014: Jan. 1-5; May 24-26; July 3-6; Aug. 30-31; Sept. 1; Nov. 26-30; Dec. 20-31;

2015: Jan. 1-4; May 23-25; July 3-6; Sept. 5-7; Nov. 25-29; Dec. 19-31;

2016: Jan. 1-3;

#### **MILESTONE 1:**

Milestone 1 is for the construction of High Early Strength concrete pavement located on SH 75 at the intersection of FM 1791. See Phase 2B of the Traffic Control Plan.

The road-user cost liquidated damages for Milestone 1 is \$4,000 per day.

Substantially complete Milestone 1 in 3 calendar days charged in accordance with article 8.3.A.5.

The time for Milestone 1 will begin on a Friday at 9:00 AM. Traffic signs for the detour shall be placed prior to this time. See plan sheet 58 for detour layout.

The time charges for Milestone 1 will end when, in the opinion of the Engineer, the Contractor has completed the following items of work, which define the term "substantially complete":

- 1) Remove existing pavement in conflict.
- 2) Complete the concrete placement in sufficient time for the HES to develop the required strength to handle traffic loading.
- 3) Complete the placement of HMA, Type D Level-Up adjacent to new pavement.
- 4) Complete required pavement markings for current TCP phase.

#### **MILESTONE 2:**

Milestone 2 is for the construction of concrete pavement located on SH 75 at the underpass with IH 45. See Phase 3 of the Traffic Control Plan.

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The road-user cost liquidated damages for Milestone 2 is \$4,000 per day.

Substantially complete Milestone 2 in 30 working days charged in accordance with article 8.3.A.1.

The time charges for Milestone 2 will begin upon the closure of the work area as shown on the TCP Phase 3 layout. Traffic signs for the detour shall be place prior to this time. See plan sheet 67 for detour layout

The time charges for Milestone 2 will end when, in the opinion of the Engineer, the Contractor has completed the following items of work, which define the term “substantially complete”:

- 1) Remove existing pavement in conflict.
- 2) Complete the concrete placement in sufficient time for the concrete pavement to develop the required strength to handle traffic loading.
- 3) Complete the placement of HMA, Type D Level-Up adjacent to new pavement.
- 4) Complete required pavement markings for current TCP phase.

### **MILESTONE 3:**

Milestone 3 is for the construction of concrete pavement located on SH 75 at the intersection of FM 1791. See Phase 4B of the Traffic Control Plan.

The road-user cost liquidated damages for Milestone 3 is \$4,000 per day.

Substantially complete Milestone 3 in 15 working days charged in accordance with article 8.3.A.1.

The time for Milestone 3 will begin upon the closure of the work area as shown on the TCP Phase 4B layout. Traffic signs for the detour shall be place prior to this time. See plan sheet 76 for detour layout

The time charges for Milestone 3 will end when, in the opinion of the Engineer, the Contractor has completed the following items of work, which define the term “substantially complete”:

- 1) Remove existing pavement in conflict.
- 2) Complete the concrete placement in sufficient time for the concrete to develop the required strength to handle traffic loading.
- 3) Complete the placement of HMA, Type D Level-Up adjacent to new pavement.
- 4) Complete required pavement markings for current TCP phase.

### **ITEM 100 “PREPARING RIGHT OF WAY”**

Prevent ashes from burned vegetation to be transported into any stream.

During burn bans obtain written approval from the Commissioners Court prior to burning brush. If burning is not allowed, all trees and brush will be disposed of by shredding, logging or other methods approved by the Engineer. Create a windrow, stockpile, or topdress biomass on disturbed areas along the project at locations approved by necessary permits and the Engineer.

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### **ITEM 132 “EMBANKMENT”**

Provide Embankment material for areas within the limits of the Pavement Structure that meet one of the following requirements:

- Sources outside the ROW provide material with a plasticity index between 15 and 30.
- Sources within the ROW provide material with a plasticity index between 15 and 30.

Provide Embankment material for areas outside the limits of the roadbed with a plasticity index between 15 and 30.

### **ITEM 134 “BACKFILLING PAVEMENT EDGES”**

Furnish Type A or B material meeting one of the following requirements:

Item 132, Type B with a minimum PI of 15;

Item 247, Type D Grade 3;

Reclaimed Asphalt Pavement (RAP) shall have 95% of the RAP passing the 2-in.sieve.

### **ITEM 160 “TOPSOIL”**

All slopes requiring topsoil will be tracked immediately upon final grading to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slopes leaving track marks perpendicular to the direction of the slope. Tracking slopes to prevent erosion will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Salvage approximately 3,124 cubic yards of topsoil from areas shown on plans. Maximum salvage depth is 4 in. Apply 4 in. layer of topsoil to designated areas.

Topsoil may be obtained from the right of way at sites of proposed excavation and embankment. Any surplus topsoil will become the property of the contractor.

### **ITEM 162 “SODDING FOR EROSION CONTROL”**

Furnish and place Bermuda grass\_sod.

### **ITEM 166 “FERTILIZER”**

Fertilize all areas of project that are being seeded or sodded.

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**ITEM 168 “VEGETATIVE WATERING”**

Vegetative watering is required for all areas of the project that are being seeded or sodded at the rate shown in the “Basis of Estimate”.

**ITEM 276 “CEMENT TREATMENT (PLANT-MIXED)”**

Provide Type E material consisting of crushed concrete, crushed limestone or crushed gravel. Crushed limestone and crushed gravel shall be produced and graded from oversize quarried aggregate that originates from a single, naturally occurring source. Do not use multiple sources. Crushed concrete must meet the requirements in Section 247.2.A.3.b, “Recycled material (Including Crushed Concrete) Requirements,” and be managed in a way to provide for uniform quality. The Engineer may require separate dedicated stockpiles in order to verify compliance.

**Table 1**  
**Flexible Base Material Requirements Before Cement Treatment**

Property	Test Method	Grade 4
<b>Master gradation sieve size</b>		<b>% Retained</b>
2-1/2 in.	Tex-110-E	0
1-3/4 in.		0-10
7/8 in.		-
3/8 in.		-
No. 4		45-75
No. 40		60-85
Liquid limit, %max. <sup>1</sup>		Tex-104-E
Plasticity index, max. <sup>1</sup>	Tex-106-E	12
Linear shrinkage, min	Tex-107-E	2
Wet Ball mill, %max	Tex-116-E	45
Wet ball mill, % max. increase passing the No. 40 sieve.		20

- Determine plastic index in accordance with Tex-107-E (linear shrinkage) when liquid limit is unattainable as defined in Tex-104-E.

Provide Type E material consisting of field sand.

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**Table 1**  
**Flexible Base Material Requirements before Cement Treatment**

Property	Test Method	Grade 4
Master gradation sieve size	Tex-110-E	% Retained
1 in.		0
No. 4		0-10
No. 8		0-20
No. 30		35-75
No. 50		65-90
No. 200		97-100
Organic Impurity	Tex-408-A	not darker than standard

The Contractor shall furnish the Engineer with representative samples of the materials to be used in production of the cement treated base. The Engineer will designate a target cement content and optimum moisture content necessary to produce a stabilized mixture that meets the strength requirements and moisture susceptibility requirements shown in Table 2.

**Table 2**  
**Requirements for Cement Treatment**

Description	Minimum	Maximum
Cement	1 ½ percent	5 percent
	Test Method	Requirement
7-Day Unconfined compressive Strength <sup>1</sup>	Tex-120-E, Part I	210 psi (min.)
Moisture Susceptibility Requirements	Tex-144-E	85% of 7-Day Unconfined Compressive Strength (min.)
Expansion <sup>2</sup>	ASTM C 1567	0.10% (maximum)

1. Meet the unconfined compressive strength after addition of stabilizer.
2. Required when using crushed concrete or other material that contains cement. Provide the certified test report signed and sealed by a licensed professional engineer. This may be waived by the Engineer when the material has a known performance history based on previous ASTM C 1567 or ASTM C 1260 tests.

If the cement treated base fails these requirements a different flexible base source will be required. The Engineer may accept a mixture design from the Contractor that is performed in accordance with Test Method Tex-120-E, Part I and meets the moisture susceptibility requirement shown above.

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**ITEM 310 “PRIME COAT”**

Cure the prime coat 7 days before placing subsequent surface courses unless otherwise directed by the engineer.

**ITEM 346 “STONE MATRIX ASPHALT”**

<b>Hamburg Wheel Test Requirements</b>			
<b>High-Temperature Binder Grade</b>	<b>Test Method</b>	<b>Laboratory Mixture Design or Trial Batch</b>	<b>Production and Placement Test<sup>1</sup></b>
		<b>Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F</b>	<b>Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F</b>
PG 64 or lower	Tex-242-F	7,000	7,000
PG 70	Tex-242-F	15,000	15,000
PG 76 or higher	Tex-242-F	20,000	20,000

<sup>1</sup>. The Engineer may accept if no more than 1 of the 5 most recent Hamburg Wheel tests is below the specified number of passes and the failing test is no more than 2,000 passes below the specified number of passes.

Use aggregate that meets the SAC requirement of class A.

Apply tack coat through a distributor spray bar in accordance with Article 316.3(A) Distributor. If residual from emulsion tack is not tacky, then the Engineer can require the use of PG binder.

**ITEM 354 “PLANING AND TEXTURING PAVEMENT”**

Contractor shall take ownership of reclaimed asphalt material.  
Milled areas will need to be covered within 2 days with subsequent paving layer.  
Existing raised pavement markers in the proposed work area are to be removed prior to planning operations. This item will be considered subsidiary.

**ITEM 360 “CONCRETE PAVEMENT”**

All concrete pavement mixes placed from April 1 to October 31 shall contain a minimum of 25 percent by weight of Class “F” Fly Ash or shall use a Type IP cement.  
If the concrete design requires more than 5.5 sacks of cementitious material per cubic yard, written approval by the Engineer will be required.  
The coarse aggregates used for the concrete paving mixture shall produce concrete with a coefficient of thermal expansion (COTE) of not greater than  $6.0 \times 10^{-6}$  in./in./°F when tested in

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accordance with test method TEX-428-A, "DETERMINING THE COEFFICIENTS OF THERMAL EXPANSION OF CONCRETE." Specimens shall be made and cured in accordance with test method TEX-447-A, "MAKING AND CURING CONCRETE TEST SPECIMENS" and be at least 7 days old before testing. The Construction Division will perform all testing for COTE for aggregate acceptance and these test results shall be final. This note applies only to naturally occurring aggregates.

During the months of June, July, and August, sprinkle the aggregate at the stockpile with water to provide evaporative cooling.

#### **ITEM 464 "REINFORCED CONCRETE PIPE"**

Seal joints using cold applied plastic asphalt sewer compound or cold applied preformed plastic gaskets. When cohesionless material is used for backfill, wrap the joints prior to backfilling with sand proof tape following the manufacturer's recommendations or with an equivalent material and method.

#### **ITEM 465 "MANHOLES AND INLETS"**

When furnishing precast Inlets, Manholes and Extensions, cast elements for specific project locations.

#### **ITEM 502 "BARRICADES, SIGNS AND TRAFFIC HANDLING"**

In lieu of placing channelizing devices on centerline for one-lane, two-way traffic control, the Contractor may provide the Pilot Car Method. Operate the pilot vehicle in coordination with the flagging operations and other controls at the end of the one-lane sections in accordance with appropriate TCP. Mount a G20-4 sign at a conspicuous location on the rear of the vehicle. Traffic delays caused by one-lane, two-way traffic control, will not be allowed to exceed 5 minutes unless approved by the Engineer. Centerline channelizing devices will not be required.

During one-way operations, station flaggers at all county roads and any other locations, such as private businesses, that may have traffic entering the work area.

Removal of ground mounted temporary signs and supports as specified on standard sheet BC(5), shall include the immediate backfilling of support holes with Type B embankment material and the compaction of the backfill material.

Prior to beginning pulverization operations, place an approved channelizing device along both sides of the travelway the entire length of the operation in accordance with the BC standards. Do not remove the channelizing devices until permanent edge striping is placed.

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Law enforcement assistance will be required for this project and is expected to be required for major traffic control changes and lane closures. Coordinate with local law enforcement and arrange for law enforcement as directed or agreed by the Engineer. Complete the weekly tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided.

#### **ITEM 545 “CRASH CUSHION ATTENUATORS”**

Construction of concrete backup for crash cushions (if required) will be subsidiary to this item. Construct according to manufacturer’s specifications.

#### **ITEM 585 “RIDE QUALITY FOR PAVEMENT SURFACES”**

Pay adjustment schedule 2 will be used to evaluate ride quality of the travel lanes in accordance with Item 585, “Ride Quality for Pavement Surfaces.”

#### **ITEM 618 “CONDUIT”**

Use materials from prequalified material producers list as shown on the Texas Department of Transportation (TxDOT) materials producers list. Category is “Roadway Illumination and Electrical Supplies.”

The polymer concrete barrier box will not be paid for separately, but will be considered subsidiary to ITEM 618, “CONDUIT”.

Where PVC, duct cable, and HDPE conduit 1” and larger is allowed and installed as per TxDOT standards, provide a PVC elbow in place of the galvanized rigid metal elbow required by the Electrical Detail standards. Ensure the PVC elbow is of the same schedule rating as the conduit to which it is connected. Ensure only a flat, high tensile strength polyester fiber pull tape is used for pulling conductors through the PVC conduit system.

#### **ITEM 620 “ELECTRICAL CONDUCTORS”**

For both transformer and shoe-base type illumination poles, provide double-pole breakaway fuse holder as shown on the Texas Department of Transportation (TxDOT) materials producers list. Category is “Roadway Illumination and Electrical Supplies”. Fuse holder is shown on list under Items 610 & 620.

Provide 10 amp time delay fuses.

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For Flashing Beacons (Item 685) and Ped poles (Item 687) within the project, provide single-pole breakaway disconnects.

Use Bussman HEBW, Littelfuse LEB, Ferraz-Shawmut FEB, or equal on ungrounded conductors.

For all grounded conductors use Bussman HET, Littelfuse LET, Ferraz-Shawmut FEBN, or equal. These breakaway connectors have a white colored marking and a permanently installed solid neutral.

#### **ITEM 666 “REFLECTORIZED PAVEMENT MARKINGS”**

Furnish Type II drop-on glass traffic beads conforming to DMS-8290 for use with Type I marking materials.

Unless authorized by the Engineer, the Contractor will not place the pavement markings on the resurfaced roadway until it has cured for 3 days.

All striping limits must be approved by the Engineer before striping operations may begin.

#### **ITEM 672 “RAISED PAVEMENT MARKERS”**

Use flexible bituminous adhesive for applications on all pavement types.

#### **ITEM 678 “PAVEMENT SURFACE PREPARATION FOR MARKINGS”**

It is not anticipated that pavement surface preparation for markings will be needed. If the Engineer determines that it is needed, payment for work will be determined in accordance with Article 9.4 “Payment for Extra Work”.

#### **ITEM 680 “INSTALLATION OF HIGHWAY TRAFFIC SIGNAL”**

Traffic Signal equipment for all intersections shall be as follows:

Conflict monitors – EDI MMU- 16LE, Eberle Design, Inc., or equal.

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**ITEM 3224 “DENSE GRADED HOT MIX ASPHALT (QC/QA)”**

<b>Hamburg Wheel Test Requirements</b>			
<b>High-Temperature Binder Grade</b>	<b>Test Method</b>	<b>Laboratory Mixture Design or Trial Batch Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F</b>	<b>Production and Placement Test<sup>1</sup> Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F</b>
PG 64 or lower	Tex-242-F	7,000	7,000
PG 70	Tex-242-F	15,000	15,000
PG 76 or higher	Tex-242-F	20,000	20,000

<sup>1</sup> The Engineer may accept if no more than 1 of the 5 most recent Hamburg Wheel tests is below the specified number of passes and the failing test is no more than 2,000 passes below the specified number of passes. Use aggregate that meets the SAC requirement of class B Add one (1.0) percent hydrated lime, commercial, or lime slurry lime, based on the total aggregate weight, as mix enhancer for all mixture types. Provide hydrated lime or commercial lime slurry in accordance with DMS-6350, “Lime and Lime Slurry”. Add hydrated lime or commercial lime slurry in accordance with Item 301.4.B. Apply tack coat through a distributor spray bar in accordance with Article 316.3(A) Distributor. If residual from emulsion tack is not tacky, then the Engineer can require the use of PG binder. Do not use more than 2% flyash in mixture.

**ITEM 6834 “PORTABLE CHANGEABLE MESSAGE SIGN”**

Furnish, install, and operate up to four (4) Portable Changeable Message Signs (PCMS) for this project. The signs can be used both on the project and within a ten (10) mile radius of the project. Locations, messages, and durations of use will be specified by the Engineer. The primary uses will be to inform the public of special events, lane and road closures, and changes in traffic control. Signs will be paid for only when used as directed by the Engineer.