

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 2

**DATED 9/06/2011**

<b>Control</b>	<b>0918-45-821, ETC.</b>
<b>Project</b>	<b>CM 2007(892), ETC.</b>
<b>Highway</b>	<b>CS, ETC.</b>
<b>County</b>	<b>DALLAS</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: CM 2007(892)

CONTROL: 0918-45-821

COUNTY: DALLAS

LETTING: 09/08/2011

REFERENCE NO: 0906

**PROPOSAL ADDENDUMS**

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PROPOSAL COVER

BID INSERTS (SH. NO.: 1-15 THRU 15-15 )

GENERAL NOTES (SH. NO.: L THRU Z )

SPEC LIST (SH. NO.:

SPECIAL PROVISIONS:

ADDED:

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

OTHER: SEE CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS: SHEETS 1-15 THRU 15-15 REVISED DUE TO QUANTITY REVISION TO  
ITEMS 110-2001, 132-2026, DELETION OF ITEM 132-2025 AND  
SHIFTING.

GENERAL NOTES: SHEETS L THRU Z REVISED DUE TO ADDITION OF TWO NOTES TO  
ITEM 421 ON SHEET L AND REVISION TO GN ITEM 585 AND  
SHIFTING. ADDED SHEET AA DUE TO THIS REVISION.

PLAN SHEETS: 2,6E-6L, 7, 7A-7C REVISED, REPLACED SHEETS 4, 9 AND ADDED  
SHEET 6M DUE TO ABOVE CHANGES.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	002	PREPARING ROW  DOLLARS and CENTS	STA	16.000	1
	104	2001		REMOVING CONC (PAV)  DOLLARS and CENTS	SY	783.000	2
	104	2015		REMOVING CONC (SIDEWALKS)  DOLLARS and CENTS	SY	113.000	3
	104	2017		REMOVING CONC (DRIVEWAYS)  DOLLARS and CENTS	SY	135.000	4
	104	2022		REMOVING CONC (CURB AND GUTTER)  DOLLARS and CENTS	LF	954.000	5
	104	2037		REMOVE CONC (RAIL)  DOLLARS and CENTS	LF	844.000	6
	105	2011		REMOVING STAB BASE AND ASPH PAV (2"- 6")  DOLLARS and CENTS	SY	1,081.000	7
	110	2001		EXCAVATION (ROADWAY)  DOLLARS and CENTS	CY	2,712.000	8
	132	2026		EMBANKMENT (FINAL) (DENS CONT) (TY C2)  DOLLARS and CENTS	CY	6,606.000	9
	161	2014	006	COMPOST MANUF TOPSOIL (BOS OR PB) (4")  DOLLARS and CENTS	SY	2,130.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	162	2002		BLOCK SODDING  and  DOLLARS CENTS	SY	2,130.000	11
	168	2001		VEGETATIVE WATERING  and  DOLLARS CENTS	MG	107.000	12
	170	2001		IRRIGATION SYSTEM  and  DOLLARS CENTS	LS	1.000	13
	192	2002		PLANT MATERIAL (1-GAL)  and  DOLLARS CENTS	EA	3,798.000	14
	192	2005		PLANT MATERIAL (15-GAL)  and  DOLLARS CENTS	EA	12.000	15
	192	2014		PLANT SOIL MIX  and  DOLLARS CENTS	CY	178.500	16
	192	2016		PLANT BED PREPARATION  and  DOLLARS CENTS	SY	521.700	17
	192	2024		PLANT MATERIAL (30 GAL) (TREE)  and  DOLLARS CENTS	EA	8.000	18
	192	2026		PLANT MATERIAL (65 GAL) (TREE)  and  DOLLARS CENTS	EA	6.000	19
	192	2027		PLANT MATERIAL (100 GAL) (TREE)  and  DOLLARS CENTS	EA	13.000	20
	260	2006	002	LIME TRT (EXST MATL) (6")  and  DOLLARS CENTS	SY	1,690.000	21

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	260	2016	002	LIME (HYD, COM, OR QK(SLURRY)) DOLLARS and CENTS	TON	21.000	22
	276	2268		CEM TRT (PT MX)(CL M)(TY E)(GR 4)(6.5") DOLLARS and CENTS	SY	3,122.000	23
	310	2001		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	941.000	24
	340	2011	003	D-GR HMA(METH) TY-B PG64-22 DOLLARS and CENTS	TON	1,544.000	25
	360	2009	003	CONC PVMT (JOINTED-CPCD)(8") DOLLARS and CENTS	SY	3,775.000	26
	360	2026	003	CONC PAV (JOINT REINF)(10") DOLLARS and CENTS	SY	931.000	27
	402	2001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	1,142.000	28
	416	2004	001	DRILL SHAFT (36 IN) DOLLARS and CENTS	LF	118.000	29
	416	2006	001	DRILL SHAFT (48 IN) DOLLARS and CENTS	LF	181.000	30
	416	2029	001	DRILL SHAFT (RDWY ILL POLE) (30 IN) DOLLARS and CENTS	LF	40.000	31
	420	2006	002	CL C CONC (RAIL FOUNDATION) DOLLARS and CENTS	CY	82.000	32

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	420	2016	002	CL C CONC (COLLAR)  and  DOLLARS CENTS	EA	2.000	33
	420	2023	002	CL F CONC (COLUMN)  and  DOLLARS CENTS	CY	81.200	34
	420	2025	002	CL F CONC (FOOTING)(MASS PLACEMENT)  and  DOLLARS CENTS	CY	60.000	35
	420	2033	002	CL S CONC (APPR SLAB)  and  DOLLARS CENTS	CY	46.000	36
	420	2087	002	CL F CONC (ABUT)  and  DOLLARS CENTS	CY	264.000	37
	420	2246	002	CL H CONC (DIAPHRAGM)(HPC)(MASS PLA)  and  DOLLARS CENTS	CY	238.400	38
	420	2247	002	CL H CONC (CIP BOX)(HPC)  and  DOLLARS CENTS	CY	271.100	39
	422	2001		REINF CONC SLAB  and  DOLLARS CENTS	SF	3,900.000	40
	423	2001		RETAINING WALL (MSE)  and  DOLLARS CENTS	SF	8,914.000	41
	425	2019	001	PRESTR CONC U-BEAM (U54)  and  DOLLARS CENTS	LF	387.700	42
	426	2001		POST-TENSIONING (GROUTED)  and  DOLLARS CENTS	MKF	207.000	43

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	428	2002	001	CONC SURF TREAT (CLASS II) DOLLARS and CENTS	SY	9,113.000	44
	430	2004		CL S CONC FOR EXT STR (SLAB) DOLLARS and CENTS	CY	2.200	45
	432	2039		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	12.000	46
	432	2040		RIPRAP (MOW STRIP)(5 IN) DOLLARS and CENTS	CY	27.300	47
	442	2048	016	STRUCTURAL STEEL(MISC NON-BRIDGE) DOLLARS and CENTS	LB	222.000	48
	450	2007	001	RAIL (TY T501) DOLLARS and CENTS	LF	688.000	49
	450	2190	001	RAIL (SPECIAL TRAFFIC) (BRIDGE) DOLLARS and CENTS	LF	1,135.000	50
	454	2001		SEALED EXPANSION JOINT (4 IN)(SEJ-A) DOLLARS and CENTS	LF	96.600	51
	454	2005		ARMOR JOINT (WITH SEAL) DOLLARS and CENTS	LF	144.400	52
	464	2003	003	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	156.000	53
	464	2005	003	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	14.000	54

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	ITEM NO	DESC CODE	S.P. NO.				
	464	2007	003	RC PIPE (CL III)(30 IN)  and  DOLLARS CENTS	LF	856.000	55
	464	2035	003	RC PIPE (CL V)(18 IN)  and  DOLLARS CENTS	LF	42.000	56
	465	2005	001	MANH (COMPL)(TY M)  and  DOLLARS CENTS	EA	5.000	57
	465	2032	001	INLET (COMPL)(CURB)(TY 1)(10' X 3')  and  DOLLARS CENTS	EA	5.000	58
	465	2036	001	INLET (COMPL)(CURB)(TY 1)(15' X 4')  and  DOLLARS CENTS	EA	1.000	59
	465	2180	001	INLET (COMPL)(TY AZR) 2 GRATES  and  DOLLARS CENTS	EA	4.000	60
	479	2004		ADJ MANHS (SANITARY)  and  DOLLARS CENTS	EA	1.000	61
	479	2005		ADJ MANHS (WATER VALVE BOX)  and  DOLLARS CENTS	EA	3.000	62
	500	2001	005	MOBILIZATION  and  DOLLARS CENTS	LS	1.000	63
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING  and  DOLLARS CENTS	MO	13.000	64

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	506	2016	010	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	78.000	65
	506	2019	010	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	78.000	66
	506	2034	010	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	936.000	67
	512	2048	002	PORT CTB (FUR & INST)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	720.000	68
	512	2050	002	PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	720.000	69
	512	2052	002	PORT CTB (REMOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	720.000	70
	529	2004		CONC CURB & GUTTER (TY II) DOLLARS and CENTS	LF	37.400	71
	529	2006		CONC CURB (MONO) (TY II) DOLLARS and CENTS	LF	1,295.000	72
	529	2007		CONC CURB (DOWEL) DOLLARS and CENTS	LF	317.000	73
	530	2010		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	64.000	74
	531	2005		CURB RAMPS (TY 1) DOLLARS and CENTS	EA	2.000	75

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	ITEM NO	DESC CODE	S.P. NO.				
	531	2008		CURB RAMPS (TY 4)  DOLLARS and CENTS	EA	2.000	76
	531	2010		CURB RAMPS (TY 7)  DOLLARS and CENTS	EA	1.000	77
	531	2015		CONC SIDEWALKS (4")  DOLLARS and CENTS	SY	517.000	78
	531	2041		CURB RAMPS (TY 10)  DOLLARS and CENTS	EA	2.000	79
	540	2011	023	MTL BEAM GD FEN TRANS (THRIE-BEAM)  DOLLARS and CENTS	EA	1.000	80
	544	2001		GUARDRAIL END TREATMENT (INSTALL)  DOLLARS and CENTS	EA	1.000	81
	545	2058		CRASH CUSH ATTEN (INSTL) (N)  DOLLARS and CENTS	EA	1.000	82
	545	2060		CRASH CUSH ATTEN (REMOVE) (N)  DOLLARS and CENTS	EA	1.000	83
	618	2012		CONDT (PVC) (SCHD 40) (1")  DOLLARS and CENTS	LF	260.000	84
	618	2018		CONDT (PVC) (SCHD 40) ( 2")  DOLLARS and CENTS	LF	1,472.000	85
	618	2019		CONDT (PVC) (SCHD 40) (2") (BORE)  DOLLARS and CENTS	LF	44.000	86

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	ITEM NO	DESC CODE	S.P. NO.				
	618	2022		CONDT (PVC) (SCHD 40) (3") and DOLLARS CENTS	LF	535.000	87
	618	2056		CONDT (RM) (3") and DOLLARS CENTS	LF	355.000	88
	620	2009	001	ELEC CONDR (NO. 6) BARE and DOLLARS CENTS	LF	2,491.000	89
	620	2010	001	ELEC CONDR (NO. 6) INSULATED and DOLLARS CENTS	LF	3,032.000	90
	620	2012	001	ELEC CONDR (NO. 8) INSULATED and DOLLARS CENTS	LF	1,950.000	91
	624	2008	014	GROUND BOX TY A (122311) W/APRON and DOLLARS CENTS	EA	6.000	92
	628	2018	003	ELC SRV TY A 240/480 060 (NS)SS(E)SP(U) and DOLLARS CENTS	EA	1.000	93
	636	2001	014	ALUMINUM SIGNS (TY A) and DOLLARS CENTS	SF	14.000	94
	636	2007	014	REPLACE EXISTING ALUMINUM SIGNS (TY A) and DOLLARS CENTS	SF	48.750	95
	644	2001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) and DOLLARS CENTS	EA	9.000	96

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	2056		RELOCATE SM RD SN SUP & AM TY 10BWG DOLLARS and CENTS	EA	4.000	97
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	8.000	98
	644	2088		INS SM RD SN SUP & AM TY SPL-1 DOLLARS and CENTS	EA	4.000	99
	644	2089		INS SM RD SN SUP & AM TY SPL-2 DOLLARS and CENTS	EA	2.000	100
	658	2258		INSTL DEL ASSM (D-SW)SZ (TYC)CTB DOLLARS and CENTS	EA	35.000	101
	662	2064		WK ZN PAV MRK REMOV (W) 4" (BRK) DOLLARS and CENTS	LF	465.000	102
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	3,210.000	103
	662	2077		WK ZN PAV MRK REMOV (W) 12" (SLD) DOLLARS and CENTS	LF	45.000	104
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	2,857.000	105
	666	2003		REFL PAV MRK TY I (W) 4" (BRK)(100MIL) DOLLARS and CENTS	LF	1,894.000	106
	666	2012		REFL PAV MRK TY I (W) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	1,915.000	107

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2024		REFL PAV MRK TY I (W) 6" (SLD)(100MIL) DOLLARS and CENTS	LF	575.000	108
	666	2042		REFL PAV MRK TY I (W) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	474.000	109
	666	2048		REFL PAV MRK TY I (W) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	157.000	110
	666	2054		REFL PAV MRK TY I (W) (ARROW) (100MIL) DOLLARS and CENTS	EA	5.000	111
	666	2096		REFL PAV MRK TY I (W) (WORD) (100MIL) DOLLARS and CENTS	EA	4.000	112
	666	2111		REFL PAV MRK TY I (Y) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	3,158.000	113
	666	2120		REFL PAV MRK TY I (Y) 6" (SLD)(100MIL) DOLLARS and CENTS	LF	688.000	114
	666	2126		REFL PAV MRK TY I (Y) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	380.000	115
	666	2189		PAVEMENT SEALER 4" DOLLARS and CENTS	LF	6,967.000	116
	666	2190		PAVEMENT SEALER 6" DOLLARS and CENTS	LF	1,263.000	117
	666	2193		PAVEMENT SEALER 12" DOLLARS and CENTS	LF	854.000	118

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2195		PAVEMENT SEALER 24" and DOLLARS CENTS	LF	157.000	119
	672	2015	034	REFL PAV MRKR TY II-A-A and DOLLARS CENTS	EA	151.000	120
	672	2017	034	REFL PAV MRKR TY II-C-R and DOLLARS CENTS	EA	20.000	121
	677	2001		ELIM EXT PAV MRK & MRKS ( 4") and DOLLARS CENTS	LF	3,246.000	122
	677	2002		ELIM EXT PAV MRK & MRKS ( 6") and DOLLARS CENTS	LF	688.000	123
	678	2001		PAV SURF PREP FOR MRK ( 4") and DOLLARS CENTS	LF	6,967.000	124
	678	2002		PAV SURF PREP FOR MRK ( 6") and DOLLARS CENTS	LF	1,263.000	125
	678	2004		PAV SURF PREP FOR MRK (12") and DOLLARS CENTS	LF	854.000	126
	678	2006		PAV SURF PREP FOR MRK (24") and DOLLARS CENTS	LF	157.000	127
	678	2013		PAV SURF PREP FOR MRK (RPM) and DOLLARS CENTS	EA	171.000	128
	680	2002		INSTALL HWY TRF SIG (ISOLATED) and DOLLARS CENTS	EA	1.000	129

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	681	2001	002	TEMP TRAF SIGNALS  DOLLARS and CENTS	EA	1.000	130
	682	2001	001	BACK PLATE (12 IN) (3 SEC)  DOLLARS and CENTS	EA	5.000	131
	682	2003	001	BACK PLATE (12 IN) (5 SEC)  DOLLARS and CENTS	EA	1.000	132
	682	2022	001	VEH SIG SEC (12 IN) LED (GRN ARW)  DOLLARS and CENTS	EA	1.000	133
	682	2023	001	VEH SIG SEC (12 IN) LED (GRN)  DOLLARS and CENTS	EA	6.000	134
	682	2024	001	VEH SIG SEC (12 IN) LED (YEL ARW)  DOLLARS and CENTS	EA	1.000	135
	682	2025	001	VEH SIG SEC (12 IN) LED (YEL)  DOLLARS and CENTS	EA	6.000	136
	682	2027	001	VEH SIG SEC (12 IN) LED (RED)  DOLLARS and CENTS	EA	6.000	137
	682	2048	001	VEH SIG SEC (12 IN)LED(HOUSE ONLY)ALUM  DOLLARS and CENTS	EA	20.000	138
	684	2009		TRF SIG CBL (TY A) (12 AWG) ( 4 CONDR)  DOLLARS and CENTS	LF	100.000	139
	684	2012		TRF SIG CBL (TY A) (12 AWG) ( 7 CONDR)  DOLLARS and CENTS	LF	50.000	140

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	684	2025		TRF SIG CBL (TY A) (12 AWG) (20 CONDR) DOLLARS and CENTS	LF	2,625.000	141
	684	2080		TRF SIG CBL (TY C) (14 AWG) ( 2 CONDR) DOLLARS and CENTS	LF	7,410.000	142
	686	2025		INS TRF SIG PL AM(S) 1 ARM (24') LUM DOLLARS and CENTS	EA	2.000	143
	688	2002		VEH LP DETECT (SAWCUT) DOLLARS and CENTS	LF	330.000	144
	780	2001		EPOXY INJECTION (TY IX) DOLLARS and CENTS	LF	8.000	145
	5049	2002		BIODGRD EROSION CONTROL LOGS (18" DIA) DOLLARS and CENTS	LF	400.000	146
	5870	2001		24" RCC WATER PIPE DOLLARS and CENTS	LF	20.000	147
	5870	2002		8" PVC WASTEWATER PIPE DOLLARS and CENTS	LF	94.000	148
	5870	2003		MANHOLE (SANITARY SEWER) (4" DIA) DOLLARS and CENTS	EA	3.000	149
	6007	2001		REMOVING TRAFFIC SIGNALS DOLLARS and CENTS	EA	1.000	150

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	8753	2001		DECORATIVE RDWY ILLUMINATION ASSEM- BLIES  and  DOLLARS CENTS	EA	10.000	151

County: DALLAS

Highway: Galatyn Parkway

Control: 0918-45-821, etc.

**GENERAL NOTES:**

**SW3P RESPONSIBILITIES**

**TxDOT Area of Responsibility**

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

**TxDOT Operational Responsibility**

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

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

**Contractor Area of Responsibility**

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

**Contractor Operational Responsibility**

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

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

County: DALLAS

Highway: Galatyn Parkway

Control: 0918-45-821, etc.

**Specification Data**

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

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

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

<b>Table 2: Basis of Estimate for Permanent Construction</b>						
Item	Description	Thickness	Rate		Quantity	
162	Block Sod	N/A			2,130	SY
164	Drill Seed (Perm) (R/U) (C/S)	N/A			0	SY
166 *	Fertilizer (12-6-6)	N/A	500	Lbs/Ac	0.1	Ton
168	Vegetative Watering	N/A	240	Mg/Ac	107	Mg
247	Flexible Base		0	Ton/CY	0	Ton
260	Lime (HYD, COM, or QK(slurry))			5% by wt	21	Ton
310	Prime Coat (MC-30)	N/A	0.20	Gal/SY	209	Gal
340	Hot Mix Asphalt (Ty B)		110	Lbs/SY/In	514	Ton
* For contractor's information only						
Note: (1) Base material weight based on 1.50 Ton/CY (dry- compacted) (2) Asphalt weight based on 110 Lbs/SY/inch (3) Subgrade weight based on 1.485 Ton/CY (dry- compacted)						

County: DALLAS

Highway: Galatyn Parkway

Control: 0918-45-821, etc.

Table 3: Basis of Estimate for Temporary Erosion Control Items					
Item	Description	Rate		Quantity	
166*	Fert (12-6-6)	500	Lbs /Ac	0	Ton
168	Vegetative Watering	240	Mg/Ac	0	Mg
*For contractor's information only					

Table 4: Basis of Estimate for Finish Colors (Item 427) <sup>1</sup>		
Element	Color	Specification Number
CTB	Light beige	23717
Columns	Light beige	23717
Bent caps	Light beige	23717
Retaining wall	Dark beige	20450
Retaining wall coping	Light beige	23717
Abutment walls	Dark beige	20450
Abutment backwall	Dark beige	20450
Abutment cap	Dark beige	20450
Girders	Dark beige	20450
Bottom of slab overhang	Dark beige	20450
Slab edge	Dark beige	20450
Concrete rail parts	Light beige	23717
Metal rail parts	Green	34108
Architectural elements	See plans	See plans

1. Unless otherwise noted, it is the intent of these plans that all exposed surfaces (concrete or steel) of bridges, retaining walls, concrete traffic railing and concrete traffic barrier be given a tinted coating as shown or as directed. Such coating shall meet the applicable provisions of Item 427.

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### GENERAL

Access will be provided to all business and residences at all times. Materials, labor and maintenance for these temporary accesses will not be paid for directly, but will be considered subsidiary to the various bid items.

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

The disturbed area for this project, as shown on the plans is 1.61 acres. However, the Total Disturbed Area (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

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

Email: [William.Fuller@txdot.gov](mailto:William.Fuller@txdot.gov)

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

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

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

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

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

Underground utilities owned by the Texas Department of Transportation may be present within the Right-of-Way on this project. For signal, illumination, surveillance, and communication &

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control, call TxDOT Traffic Signal Office (214-320-6682) and/or TxDOT Freeway Management Office (214-320-4439) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Maintenance Landscape Office (214-320-6205) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation.

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

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

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

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

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

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

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

Email: [William.Fuller@txdot.gov](mailto:William.Fuller@txdot.gov)

Answers will be provided by email.

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

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

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

The following are the modified standard detail sheets:

BRIDGE LIGHTING DETAILS - BL (MOD)  
CONSTRUCTION DETAILS FOR SPAN WIRE MOUNTED SIGNALS (MOD)  
RETAINING WALL (TRAFFIC RAIL FOUNDATION) – RW (TRF) (MOD)

**Item 8: Prosecution and progress**

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

Nighttime is allowed in accordance with Article 8.3.C.1.

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**Item 100: Preparing Right of Way**

Remove and replace the existing roadway signs as shown on the plans, or as directed, during construction within the right of way.

The limits of preparing right of way will be measured from Sta. 3+00.00 to Sta. 10+00.35 along the centerline of construction (Galatyn Parkway), from Sta. 99+74.84 to Sta. 101+68.89 along the centerline of construction (North-South Connector), and Sta. 487+31.05 to Sta. 494+23.00 along the centerline of construction (US 75 SBFR).

**Item 104: Removing Concrete**

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

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

**Items 104 & 496: Removing Concrete & Removing Structures**

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

Removal of all concrete and structures of the types specified in the plans will be paid for under the pertinent bid item. The removal of other types of obstructions encountered will be paid for under Item 100, if applicable.

**Items 105: Removing Stabilized Base and Asphalt Pavement**

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

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

Properly dispose of unsalvageable material at your own expense.

**Item 110: Excavation**

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

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

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Engineer when directed. The Engineer will sample and test soils produced by the construction project for specification requirements or material sources specified in the plans.

Excavated shale is not an acceptable material for embankment.

**Items 110 & 132: Excavation & Embankment**

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

**Items 110, 132, & 164: Excavation, Embankment, & Seeding for Erosion Control**

Perform vertical tracking on slopes to temporarily stabilize soil. Provide equipment with a track undercarriage capable of producing a linear soil impression measuring at least 12 inches in length by 2 to 4 inches in width by ½ to 2 inches in depth. Do not exceed 12 inches between track cleats. Install continuous linear track impressions where the minimum 12 inches in length impressions is perpendicular to the direction of water flow. Vertical tracking will not be paid for directly, but considered subsidiary to these items.

**Item 132: Embankment**

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

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

Use embankment material Type C2 described in Table 1 "Soil Constants Requirements" for embankments behind bridge abutments to the extent of the bridge approach slabs, and other embankments enclosed by an abutment and / or retaining walls. **ITEM 170: Irrigation System**

Contact Bobby Kinser (City of Richardson) @ 972-774-4470 to coordinate irrigation system issues. These would include connecting to the existing City system which shall remain operational during construction.

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**ITEM 192: Landscape Planting**

No planting shall occur between June 1 and September 15 without written approval from the Engineer.

Plant Soil Mix shall be an approved planting bed mix such as one provided by Living Earth Technologies or other vendor. Submit samples to Engineer for approval at least one week prior to delivery.

**Item 260: Lime Treatment Road Mixed**

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

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

**Item 301: Asphalt Antistripping Agents**

Provide liquid antistripping agents unless otherwise directed. Provide manufacturer's instruction for liquid antistripping agent.

Add the minimum percentage determined by the manufacturer and try subsequent trials at 0.25% increments, unless otherwise instructed by the manufacturer.

**Item 310: Prime Coat**

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

**Item 340: Dense-Graded Hot-Mix Asphalt (Method)**

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

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

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

Dilution of tack is not allowed.

Provide PG binder 64-22 in Type B mixture.

**Item 360: Concrete Pavement**

Provide dowel support assemblies in concrete pavement constructed of No. 1/0 (0.306" diameter) wire in the main vertical members. Rigidly support the dowels in parallel positions

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and weld them on one end to the support frame. Provide weld attachments alternately on opposite ends of successive dowels. The support assembly is subject to approval.

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

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

Stockpile the concrete aggregates at the plant site.

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

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

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

Curb transition is paid for as Type II curb.

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

Place construction, sawed and contraction joints in accordance with the pavement detail sheet and as directed. Joint locations, other than as shown on the plans, are subject to approval. Pavement leaveouts are required on this project as necessary to provide for traffic at driveways and side streets as shown in the plans or as directed. The cost of providing these leaveouts, including the construction of a suitable crossover connection at each site, is not paid for directly but is considered subsidiary to this item.

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

Provide tiebars in longitudinal joints but do not place them within 15 inches of transverse joints.

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

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Contractor personnel performing job-control testing on concrete must be ACI- Certified. Provide a copy of certification paper to the Engineer upon arrival and before testing at job site. Furnish hard copies of calibration reports for testing equipment when non-TxDOT approved equipment is used to test concrete.

The Engineer may allow the use of local commercial laboratories under contract to provide these services.

**Item 400: Excavation and Backfill for Structures**

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

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

**Item 416: Drilled Shaft Foundations**

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

**Item 420: Concrete Structures**

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

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

***BENT NUMBERING:***

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

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

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

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

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*NATIONAL BRIDGE INVENTORY NUMBERS:*

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

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

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

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

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

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

**Item 421: Hydraulic Cement Concrete**

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

Provide sulfate resistant concrete for box culverts and drill shafts. High performance concrete meets the requirement for sulfate resistant concrete when Class C fly ash and Type I cement is not used in the mix design.

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

Maturity meters may be used for temperature gradient determination in mass concrete pours.

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

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

ELE International ACCU-TEK250 Digital Compression Tester including accessories or Forney F-250EX Standard Compression Machine including accessories or TxDOT approved equal.

**Item 423: Retaining Walls**

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

REINFORCED EARTH WALLS  
THE REINFORCED EARTH COMPANY  
1331 AIRPORT FREEWAY, SUITE 302  
EULESS, TEXAS 76040-4150  
817-283-5503

REINFORCED SOIL EMBANKMENT WALLS  
TEXAS WELDED WIRE, INC.  
645 W. HURST BLVD.  
HURST, TEXAS 76053  
817-282-4560

RETAINED EARTH WALLS  
FOSTER GEOTECHNICAL  
901 NORTH HIGHWAY 77  
HILLSBORO, TEXAS 76645  
254-580-9100

STABILIZED EARTH WALL  
T&B STRUCTURAL SYSTEMS, INC.  
6800 MANHATTAN BLVD., SUITE 303  
FORT WORTH, TEXAS 76120  
817-280-9858

STRENGTHENED EARTH WALLS  
HANSON CONCRETE PRODUCTS  
3500 MAPLE AVE.  
DALLAS, TEXAS 75219  
214-525-5877

STRENGTHENED SOIL WALLS  
SHAW TECHNOLOGIES INC.

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P.O. BOX 271448  
FLOWER MOUND, TEXAS 75027  
972-490-1924

TENSAR RETAINING WALL SYSTEM  
TENSAR EARTH TECHNOLOGIES, INC.  
5775-B GLENRIDGE DRIVE  
ATLANTA, GEORGIA 30328  
404-250-1290

TRICON RETAINED SOIL WALLS  
TRICON PRECAST, INC.  
15055 HENRY RD.  
HOUSTON, TEXAS 77060  
713-931-9832

VP WALL SYSTEM  
VALLEY PRESTRESS PRODUCTS, INC.  
P.O. BOX 1367  
MISSION, TEXAS 78573  
956-584-5701

MSE PLUS  
SSL CONSTRUCTION PRODUCTS  
4740 SCOTTS VALLEY DRIVE, SUITE E  
SCOTTS VALLEY, CALIFORNIA 95066  
831-430-9300

The finished retaining walls will have a uniform texture and appearance.

The top of the leveling pad is located 2 feet below the proposed ground for wall height up to 10 feet and 3.5 feet below ground for wall height greater than 10 feet.

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

Unless otherwise shown on the plans, provide Type A backfill as defined under this item for permanent MSE walls not subject to inundation. Unless otherwise shown on the plans, provide type D backfill as defined under this item for walls subject to inundation.

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

Cement-Stabilized Backfill (CSB) is not permitted.

Rap is not acceptable as backfill for MSE retaining walls.

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

Provide earth reinforcements with a length greater than or equal to 80 percent of the wall height or 8 feet whichever is greater. Earth reinforcement length is measured perpendicular to the wall. Adjust skewed earth reinforcements as necessary to obtain required length.

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

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

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

Form the map of Texas emblem into a wall panel next to each bridge abutment. Engineer approval of the exact location of each emblem is required. The cost of forming emblems is considered subsidiary to this item. Inset the map of Texas a minimum of  $\frac{3}{4}$  inch into the face of the panel, and provide a smooth finish with an engineer approved contrasting color.

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

Use Embankment Type C2 as non-select embankment backfill as defined under Item 423.2.C.1.

For non-select embankment fill behind retaining walls provide and install fill in accordance with Item 132, Type C2.

Avoid distinct vertical joints between select backfill and embankment (Non-Select) backfill as required by Section 423.3.E. This may be conveniently done by providing a zone of material behind the strap zone (1' min width) in which alternating lifts of select and non select materials are interlaced.

**Items 423 & 427: Retaining Walls & Surface Finishes for Concrete**

Retaining wall colors are shown elsewhere in the plans.

**Item 427: Surface Finishes for Concrete**

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

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

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

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

Where used, provide fractured fin/ribs/striations that are continuous with no apparent curves or discontinuities. Variations of the fractured ribs from true vertical exceeding  $\frac{1}{4}$ " for each 4'-0" of panel height are not acceptable.

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

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

Provide sample panels a minimum of ten days in advance of starting construction of the textured concrete surfaces. Construct sample panel(s) in accordance with Item 427.4.B.2.d "Form Liner Finish" using each type of approved form liner. Sample panels must meet the requirements of the plans and specifications and be approved before any construction form liners may be ordered, obtained or used. Provide panels having a textured portion at least 5'-0" by 5'-0" with a representative un-textured surrounding surface. If directed, construct and finish additional test panels until a satisfactory concrete surface texture is obtained.

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

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

For proper placement of the expansion joint behind the rail, omit surface finish from the top of T501 (RW) (DAL) rail to bottom of panel as directed.

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

Unless otherwise noted, it is the intent of these plans that all exposed surfaces (concrete or steel) of bridges, retaining walls, concrete traffic railing and concrete traffic barrier be given a

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tinted coating as shown or as directed. Such coating shall meet the applicable provisions of Item 427 or Item 446.

**Item 428: Concrete Surface Treatments**

Provide a Class II surface treatment.

Apply concrete surface treatment to the widened portions of bridge structures only.

Do not treat the inside face of concrete rails.

**Item 440: Reinforcing Steel**

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

**Item 441: Steel Structures**

Submit erection drawings for rolled-beam units if used as temporary shoring/bracing on the cast-in-place bridge.

**Item 442: Metal for Structures**

Use temperature Zone 1 for CVN testing.

**Item 446: Cleaning and Painting Steel**

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

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

Use Federal Standard 595b colors with individual elements receiving the colors shown in the following table:

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**Item 464: Reinforced Concrete Pipe**

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

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

**Item 471: Frames, Grates, Rings, and Covers**

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

**Item 479: Adjusting Manholes and Inlets**

Salvage and stockpile all existing inlet grates and manhole covers removed under this item at a location designated by the Engineer.

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

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

**Item 496: Removing Structures**

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

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

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

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

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

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

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Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the Engineer.

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

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

Limit short-term closures on the US 75 SBFR to the hours between 11:00 pm and 5:00 am. Work in other areas of the project is not restricted to this time frame.

**Item 504: Field Office and Laboratory**

Furnish one Laboratory (Type A) for this project.

Chain link fencing will be provided around the laboratory and parking areas.

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

SW3P Maintenance Reports are made every seven calendar days. Make corrections as soon as possible before the next anticipated rain event or within seven calendar days after being able to enter the site to work for each BMP. A BMP site being "Too Wet to Work" is the only acceptable reason for not accomplishing the corrections with the seven calendar day time limit and should be thoroughly documented on Form 2118. If maintenance corrections are not made within this time frame then all work will cease, time charges will continue until SW3P is brought into compliance and is documented on Form 2118 after TxDOT review.

This in no way releases the contractor of liability for noncompliance.

Obtain from the Engineer a copy of the project's TPDES Storm Water Program and Notice of Intent or Construction Site Notice. Laminate the sheets and bond with adhesive to 36" X 48" plywood sign blanks. Ensure the sheets remain dry. Apply Type C Blue reflective sheeting as the background and add the text "SW3P" in 5" white lettering, centered at the top. Attach the signs to approved temporary mounts and locate at each of the project limits or as directed by the Engineer. SW3P Signs, maintenance, and repostings will be subsidiary to Item 502.

**Item 512: Portable Concrete Traffic Barrier**

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

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

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

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

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

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

**Item 540: Metal Beam Guard Fence**

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

**Item 545: Crash Cushion Attenuators**

Stockpile crash cushion attenuators at the intersection of SH 78 and Business 78 in Lavon. The work involved in hauling and handling this material will not be paid for directly, but will be considered subsidiary to this item.

**Item 585: Ride Quality for Pavement Surfaces**

Use Surface Test Type A on all service roads, ramps, intersections and driveways.

**Items 618: Conduit**

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

Secure permission and approval from the proper authority prior to cutting into or removing any sidewalks or curbs for installation of this Item.

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

Structurally mount junction boxes as shown on the plans. When used for traffic signal installations, use boxes 12"x12"x8", or as approved.

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

Place conduit under existing pavement by an approved boring method. Do not place boring pits closer than 2 feet from the edge of the pavement unless otherwise directed. Do not use water jetting. When boring is used for under pavement conduit installations, the maximum allowable

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over-cut is 1" in diameter. When conduits are bored, do not exceed 18 inches in the vertical and horizontal tolerances as measured from the intended target point.

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

Furnish and install a non-metallic pull rope in conduit runs in excess of 50 feet.

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

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

Furnish and install non-metallic pull ropes in conduit installed for future use and cap using standard weather-tight conduit caps, as approved. This work will not be paid for directly, but is subsidiary to this Item.

Probe the existing conduit when locating drill shafts so that its condition will be known before it is needed.

Re-strap conduit that is being relocated to new timber poles as if it were a new installation.

**Item 624: Ground Boxes**

When using existing ground boxes, ensure that the ground boxes are clean, properly secured, and have a minimum of 9 inches of gravel as a base.

Ground all junction boxes mounted on bridges and underpasses with a ground rod.

**Item 636: Aluminum Signs**

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

Manufacture all white legends using Clearview font on overhead and large ground-mounted guide signs. This includes destinations, cardinal directions, exit information and exit numbers. Use the font shown on the current standard sheets for all route markers (including interstate shields) and "Exit Only" panel information.

Use Type D Super High Specific Intensity (Non-fluorescent Prismatic) sheeting for overhead guide signs (both background and legend), conforming to DMS-8300, Flat Surface Reflective Sheeting. Use ASTM Type VIII and Type IX.

Use Type D Super High Specific Intensity (non-fluorescent Prismatic) sheeting for legends and borders on large ground-mounted guide signs, conforming to DMS-8300, Flat Reflective Sheeting. Use ASTM Type VIII and Type IX. Use Type C High Specific Intensity sheeting for

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the background on large ground-mounted guide signs, conforming to DMS-8300, Flat Surface Reflective Sheeting.

Provide six (6) sets of shop drawings for signs. The shop drawings shall conform to the details shown on the plans. The shop drawings shall show the details of the panels, wind beams, stiffeners, joint backing plates, splices, joint backing plates, splices, fasteners, brackets, and sign support connections. The shop drawings shall show letter types and sizes, interline spacing and message arrangements.

Affix a sign identification decal to the back of all signs in accordance with Item 643.

Attach sheeting applied to extruded aluminum panels to each individual extrusion. Lap each extrusion's horizontal edge with sheeting and do not bridge horizontal gaps between extrusions.

Install new overhead signs tilted "down" at 3°. Furnish and obtain approval of all shop drawings detailing the method to accomplish this installation. All material and labor required for this special installation is considered subsidiary to Item 636.

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

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

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

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

Prior to taking elevations to determine lengths for fabrication of sign posts and/or sign support towers, obtain verification of all proposed locations.

Provide field galvanizing and metalizing equipment, as per Item 445, at all times and make repairs to galvanized surfaces according to the above specification item at intervals as directed. Base all sign support quantities for pipe and structural steel on the dimensions shown on the approved shop drawings or as approved in writing. Make calculations for measurement of the sign support quantities from the approved shop drawings in accordance with Article 9.1 of the

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standard specifications. Measure increases or decreases in quantities caused by changes in design after the shop drawings are approved as specified and revised quantities will be the basis for payment.

After sign supports with signs attached have been erected, wash individual units requiring cleaning with an approved cleaning solution to remove all grease, oil, dirt, smears, streaks, and other foreign particles.

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

**Item 656: Foundations for Traffic Control Devices**

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

**Item 666: Reflectorized Pavement Markings**

Provide Type III Glass Traffic Beads that meet the requirements of Departmental Materials Specifications DMS-8290.

**Item 672: Raised Pavement Markers**

Black adhesive will be used on asphalt pavements. White adhesive will be used on concrete pavements.

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

Grinding of pavements is not allowed to eliminate pavement markings.

Placement of paint or thermo is not allowed to eliminate pavement markings.

**Item 680: Installation of Highway Traffic Signals**

Requirements for this Item include the following work, all of which are subsidiary to this Item:

1. Furnish and install all sign panels for mounting on signal poles, mast arms, and span wires. Fabricate the sign panels in accordance with Item 636, and mount with Astro-Sign Brac, or equal as approved by the Engineer. Street name signs will be provided by the City of Richardson.  
Furnish and install all other signs in accordance to Item 636. Furnish all mounting hardware for all signs. Mount signs with Astro-Sign Brac, or equal as approved by the Engineer.
2. Provide submittal literature for all traffic signal equipment before installation.
3. Have a qualified technician on the project site to place the traffic signal in operation.
4. Use qualified personnel to respond to and diagnose all trouble calls during the thirty-day test period. Repair any malfunction to Contractor-supplied signal equipment. Provide to the Engineer a local telephone number, not subject to frequent changes and available on a 24-hour basis, for reporting trouble calls. Response time to reported calls must be less than 2

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hours. Make appropriate repairs within 24 hours. Place a logbook in the controller cabinet and keep a record of each trouble call reported. Notify the Engineer of each trouble call. Do not clear the error log in the conflict monitor during the thirty-day test period without approval.

5. Install the Opticom equipment supplied by the City of Richardson.
6. Connect all field wiring to the controller assembly. The City will assist in determining how the detector loop lead-in cables are to be connected, and will also program the controller for operation, hook up the conflict monitor, detector units, and other equipment, and turn on the controller. Have a qualified technician and a representative from the controller supplier on the project site to place the traffic signals in operation.
7. Provide detector cards that have a Liquid Crystal Display (LCD) of all operational and diagnostic information. The LCD shall show all major parameters of the loop operation including loop frequency, loop inductance, inductance change, and loop faults. Loop faults include open circuit, short circuit, and inductance change. Provide a user's manual with full operating instructions and the contact name, address, and telephone number for the representative, manufacturer, or distributor for warranty repair. Submit a copy of a test report certified by an independent laboratory that the detector unit model submitted meets NEMA TS1 requirements.
8. Prevent any damage to property owner's poles, fences, shrubs, mailboxes, etc. Protect all underground and overhead utilities and repair any damage. Provide access to all driveways during construction.
9. The existing closed-loop signal communication system shall be maintained as shown on the plans. The existing controller unit for the system is located at:
  1. Intersection of Galatyn Parkway and US 75 NBFR (approx. 800 feet to east).
10. Notify City of Richardson Signal Maintenance at (972) 744-4460 one week before beginning any work involving traffic signals.

**Item 681: Temporary Traffic Signals**

Requirements for this Item include the following work, all of which are subsidiary to this Item:

1. Re-guy signal heads and re-strap the cable after making adjustments to head locations. Accomplish relocation of signal heads for a phase change during the same day.
2. Bottom tether cable for signal heads and signs will not be required.
3. Provide submittal literature for all traffic signal equipment before installation.
4. Operation and maintenance of the temporary signal will be handled by the City of Richardson. For emergencies during daytime, contact the City of Richardson at 972-744-4330. For emergencies at night, contact the City of Richardson at 972-744-4808.
5. Integrate the proposed temporary traffic signal(s) with the existing closed-loop system.

**Item 682: Vehicle and Pedestrian Signal Heads**

Install signal head attachments so that the wiring to each signal head passes from the mast arm through the attachment hardware to the signal head. Do not leave cable or wiring exposed.

Provide signal head attachments that allow for adjustment about the horizontal and vertical axis.

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Provide aluminum signal heads and aluminum tubing in the following color: Federal Yellow #13538 of Federal Standard 595. Provide back plates, louvers, and the inside of visors with a flat black finish. Provide polycarbonate back plates for all traffic signal heads.

Turn down signal heads or cover with burlap or other material, as approved, until traffic signal is placed in operation.

Mount signal heads level and plumb and aimed as directed.

**Item 684: Traffic Signal Cables**

Provide 18 AWG Type C signal cables for loop detector lead-ins.

Provide stranded 14 AWG Type A signal cables.

Provide a separate multi-conductor signal cable (14 AWG) inside pedestal poles and signal poles from the terminal strip to each signal head as shown on the plans.

Identify each cable as shown on the plans (cable 1, etc.) with permanent marking labels (Panduit Type PLM standard single marker tie, Thomas & Betts Type 548M, or equal) at each ground box, pole base, and controller.

**Item 686: Traffic Signal Pole Assemblies (Steel)**

Provide 12 circuit Buchanan Type 112SN, Kulka Type 985-GP-12 CU, or equal terminal strips in the signal pole access compartment. Provide additional terminal strips of 8 circuits each when more than 12 circuits are required.

Mark pole shafts and mast arms with the identification numbers from the plans to facilitate field-assembly. Identify pole shafts and mast arms by intersection for projects with multiple intersections.

Provide nuts on top and bottom (double nuts) of the base plate as shown on the plans.

Set anchor bolts for mast arm signal poles and strain poles so that two are in tension and two are in compression. Obtain approval of anchor bolt placement before placing concrete.

Use the traffic signal pole heights and mast arm lengths shown on the plans and in the material summary for bidding purposes only. Make field measurements to determine the actual pole height and mast arm length required. Provide vertical clearance of 17 to 19 feet from the roadway to the lowest point of the signal head or mast arm. Place signal heads 40 feet minimum and 180 feet maximum from the stop line. If the nearest signal is more than 180 feet from the stop line, place a supplemental near-side signal head. Determine the field measurements and elevations from the actual field location of the poles, considering all above and below ground utilities and existing roadway elevations.

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Provide vibration dampers for mast arms 28 feet long and longer. Use dampers 18"x48" for arms up to 48 feet long, and 16"x66" for longer mast arms. Install using Astro-sign Brac, or equal, at a maximum of 3 feet from the end of the mast arm.

For existing signal poles, replacement of existing conductors is not required inside the poles.

Provide 3 pipe plugs for wiring access on strain poles.

**Item 688: Pedestrian Detectors and Vehicle Loop Detectors**

Maintain a minimum 12 inch separation between loop lead-in saw cuts and loop saw cuts, and a minimum 6 inch separation between loop lead-in saw cuts and other loop lead-in saw cuts.

Use loop wire for concrete pavement and loop duct for asphalt pavements.

Install loop detectors only during off-peak traffic periods.

Provide pedestrian push button assemblies that have permanent-type signs within the detector unit which indicates which crosswalk signal is actuated. Provide push buttons with a minimum 2 inch convex plunger. Provide a protective shroud encircling the plunger to deter vandalism that is cast as part of the housing cover. Use a plunger that protrudes beyond the shroud a distance adequate to accommodate the switch travel. Verify the location of the push button assemblies and the direction of the arrows on the signs prior to installation.

Assist the Engineer in determining the loop inductance of each loop detector installation. Furnish a loop detector analyzer that can determine the total inductance of the loop detector and the percentage shift in loop inductance for various size vehicles.

**Item 780: Epoxy Injection**

Epoxy inject cracks in concrete ledges of existing bent caps (both ends, both caps) in accordance with this item and as directed by the Engineer.

**Item 6007: Removing Traffic Signals**

Salvage the existing traffic signals as shown on the plans. Salvage poles, cabinets, service poles and equipment, exposed conduit, and any other equipment as directed. This equipment remains the property of the Texas Department of Transportation, and is to be stockpiled at a TxDOT maintenance yard as directed. Maintain the operation of the existing traffic signal until directed to remove it.

Completely remove timber poles not set in concrete without cutting off the pole. Timber poles set in concrete are considered unsalvageable.

The list of material below is for the Contractor's information only.  
It is the responsibility of the Contractor to verify  
all items and quantities listed below.

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**LIST OF MATERIAL/LABOR  
SUBSIDIARY TO ITEM 680**

<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
60 FT TIMBER POLE (CLASS 2)	EA	2
CABLE STRAPS	EA	2
3/8 INCH ZINC-COATED STRANDED STEEL CABLE	LF	225
1/4 INCH ZINC-COATED STRANDED STEEL CABLE	LF	125
GROUND ANCHORS	EA	2
YELLOW PLASTIC GUY GUARD	EA	2
DOUBLE EYE ANCHOR ROD	EA	2
5/8" X 8' COPPERCLAD GROUND ROD W/CLAMP	EA	2
1-1/2 INCH WEATHERHEAD	EA	2
2 INCH WEATHERHEAD	EA	2
3 INCH WEATHERHEAD	EA	2
250W HPS LUMINAIRE	EA	2
TRAFFIC SIGNAL CONTROLLER FOUNDATION	EA	1
INSTALL OPTICOM EQUIPMENT (INTERSECTION)	LS	1
REGULATORY SIGN PANEL (R10-12, ETC)	EA	5
CONCRETE PAD (5' X 5' X 4", CLASS B)	SF	25

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**LIST OF MATERIAL  
FURNISHED BY THE CITY OF RICHARDSON**

DESCRIPTION	UNIT	QUANTITY
OPTICOM CABLE	LF	1755
OPTICOM DETECTOR W/ MOUNTING BRACKET	EA	2
OPTICOM MODULES (2-CHANNEL)	EA	2
OPTICOM CARD RACK AND HARNESS	EA	1
OPTICOM CONTROLLER ASSEMBLY COMPLETE WITH CABINET AND ACCESSORIES	EA	1
STREET NAME SIGNS	EA	3