

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 10/31/2016

Control	0028-11-179, ETC.
Project	C 28-11-179, ETC.
Highway	IH 10
County	ORANGE

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 28-11-179

CONTROL: 0028-11-179

COUNTY: ORANGE

LETTING: 11/04/2016

REFERENCE NO: 1031

PROPOSAL ADDENDUMS

-
- PROPOSAL COVER
 - BID INSERTS (SH. NO.: 2-11 of 11)
 - GENERAL NOTES (SH. NO.: I)

 - SPEC LIST (SH. NO.: 1-3 of 3)
 - SPECIAL PROVISIONS:
 - ADDED:

 - DELETED:

 - SPECIAL SPECIFICATIONS:
 - ADDED:

 - DELETED:

 - OTHER: Plain sheets 3,4,8D,9,9A,9B & 12

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

Bid Insert:
Revised quantity for Items 260-6006 and 260-6016
Removed Item 275

Spec List
Removed Item 275

General Notes:
Sheet "I"-Revised note for Item 423

Plans:
Sheets 3 & 4 (Typical Sections)-Added call-outs for Lime Treatment
Sheet 8D (General Notes)-Revised note for Item 423
Sheet 9 (Estimate & Quantity)-Revised quantity for Items 260-6006 & 6016
and Removed Item 275
Sheets 9A & 9B (Estimate & Quantity)-Items shifted due to removal of
Item 275

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

Sheet 12 (Summary of Roadway Quantities)-Revised quantity of Items
260-6006 & 6016 and Removed Item 275

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	104	6001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	2,013.000	1
	104	6009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	3,844.000	2
	105	6020		REMOVING STAB BASE & ASPH PAV (12") DOLLARS and CENTS	SY	10,333.000	3
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	22,402.000	4
	132	6003		EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS	CY	24,971.000	5
	132	6033		EMB(FNL)(DC)(TYC)(CSBE)(RWALL FND IMPR) DOLLARS and CENTS	CY	493.000	6
	150	6002		BLADING DOLLARS and CENTS	HR	113.000	7
	160	6003		FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS	SY	112,936.000	8
	164	6021		CELL FBR MLCH SEED(PERM)(RURAL)(SANDY) DOLLARS and CENTS	SY	112,936.000	9
	164	6029		CELL FBR MLCH SEED(TEMP)(WARM) DOLLARS and CENTS	SY	56,474.000	10
	164	6031		CELL FBR MLCH SEED(TEMP)(COOL) DOLLARS and CENTS	SY	56,474.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	168	6001		VEGETATIVE WATERING DOLLARS and CENTS	MG	1,901.000	12
	169	6002		SOIL RETENTION BLANKETS (CL 1) (TY B) DOLLARS and CENTS	SY	112,936.000	13
	260	6006		LIME TRT (EXST MATL) (6") DOLLARS and CENTS	SY	58,629.000	14
	260	6016		LIME (HYD, COM, OR QK(SLURRY)) DOLLARS and CENTS	TON	870.000	15
	276	6169		CEM TRT(PLNT MX) (CL L)(TYA)(GR1-2)(6") DOLLARS and CENTS	SY	58,629.000	16
	310	6005		PRIME COAT (AE-P) DOLLARS and CENTS	GAL	10,062.000	17
	340	6011		D-GR HMA(SQ) TY-B PG64-22 DOLLARS and CENTS	TON	3,588.000	18
	360	6004		CONC PVMT (CONT REINF - CRCP) (10") DOLLARS and CENTS	SY	13,056.000	19
	360	6009		CONC PVMT (CONT REINF - CRCP) (15") DOLLARS and CENTS	SY	37,246.000	20
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	14.000	21
	400	6006		CUT & RESTORING PAV DOLLARS and CENTS	SY	17.000	22
	402	6001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	10.000	23

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	403	6001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	4,507.000	24
	410	6001		SOIL NAIL ANCHORS DOLLARS and CENTS	LF	17,256.000	25
	416	6022		DRILL SHAFT (SIGN MTS) (48 IN) DOLLARS and CENTS	LF	324.000	26
	416	6026		DRILL SHAFT (HIGH MAST POLE) (60 IN) DOLLARS and CENTS	LF	68.000	27
	420	6002		CL A CONC (MISC) DOLLARS and CENTS	CY	1.000	28
	423	6001		RETAINING WALL (MSE) DOLLARS and CENTS	SF	3,672.000	29
	423	6022		RETAINING WALL (SOIL NAIL)(FACIA) DOLLARS and CENTS	SF	8,135.000	30
	432	6001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	633.000	31
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	336.000	32
	450	6023		RAIL (TY SSTR) DOLLARS and CENTS	LF	983.000	33
	464	6003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	1,156.000	34
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	917.000	35

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	464	6007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	446.000	36
	465	6162		INLET(COMPL)(PAZD)(FG)(5FTX5FT-4FTX-4FT) DOLLARS and CENTS	EA	2.000	37
	465	6275		MANH (COMPL)(JUNCT BOX) DOLLARS and CENTS	EA	6.000	38
	467	6356		SET (TY II) (18 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	3.000	39
	467	6363		SET (TY II) (18 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	5.000	40
	467	6395		SET (TY II) (24 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	6.000	41
	467	6419		SET (TY II) (30 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	1.000	42
	467	6423		SET (TY II) (30 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	2.000	43
	479	6002		ADJUSTING INLETS DOLLARS and CENTS	EA	2.000	44
	479	6006		ADJUSTING INLET (CAP) DOLLARS and CENTS	EA	1.000	45
	480	6001		CLEAN EXIST CULVERTS DOLLARS and CENTS	EA	6.000	46
	496	6004		REMOV STR (SET) DOLLARS and CENTS	EA	3.000	47

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	48
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	23.000	49
	506	6002	003	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	630.000	50
	506	6003	003	ROCK FILTER DAMS (INSTALL) (TY 3) DOLLARS and CENTS	LF	60.000	51
	506	6011	003	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	690.000	52
	506	6020	003	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	1,886.000	53
	506	6024	003	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	1,886.000	54
	506	6037	003	SANDBAGS FOR EROSION CONTROL (12") DOLLARS and CENTS	LF	75.000	55
	506	6038	003	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	5,573.000	56
	506	6039	003	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	5,573.000	57
	506	6042	003	BIODEG EROSN CONT LOGS (INSTL) (18") DOLLARS and CENTS	LF	5,640.000	58
	506	6043	003	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	5,640.000	59

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	508	6001		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	194.000	60
	512	6001		PORT CTB (FUR & INST)(SGL SLOPE)(TY 1) DOLLARS and CENTS	LF	12,420.000	61
	512	6009		PORT CTB (FUR & INST)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	3,640.000	62
	512	6010		PORT CTB (FUR & INST)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	340.000	63
	512	6025		PORT CTB (MOVE)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	27,300.000	64
	512	6033		PORT CTB (MOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	6,640.000	65
	512	6034		PORT CTB (MOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	160.000	66
	512	6049		PORT CTB (REMOVE)(SGL SLP)(TY 1) DOLLARS and CENTS	LF	12,420.000	67
	512	6057		PORT CTB (REMOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	3,640.000	68
	512	6058		PORT CTB (REMOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	340.000	69
	529	6002		CONC CURB (TY II) DOLLARS and CENTS	LF	112.000	70
	529	6011		CONC CURB (DOWEL) DOLLARS and CENTS	LF	278.000	71

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	530	6004		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	36.000	72
	530	6016		DRIVEWAYS (BASE) DOLLARS and CENTS	SY	465.000	73
	540	6001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	4,337.500	74
	540	6016		DOWNSTREAM ANCHOR TERMINAL SEC- TION DOLLARS and CENTS	EA	22.000	75
	540	6021		MTL THRIE-BEAM GD FEN (TIM POST) DOLLARS and CENTS	EA	10.000	76
	542	6001		REMOVE METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	2,408.000	77
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	28.000	78
	545	6001		CRASH CUSH ATTEN (INSTL) DOLLARS and CENTS	EA	6.000	79
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	16.000	80
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	6.000	81
	613	6006		HI MST IL POLE (150 FT)(100 MPH) DOLLARS and CENTS	EA	2.000	82
	614	6001		HI MST IL ASM (12-400W)(ASYM)(TY A) DOLLARS and CENTS	EA	2.000	83

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	618	6023		CONDT (PVC) (SCH 40) (2") and DOLLARS CENTS	LF	1,050.000	84
	618	6047		CONDT (PVC) (SCH 80) (2") (BORE) and DOLLARS CENTS	LF	30.000	85
	620	6007		ELEC CONDR (NO.8) BARE and DOLLARS CENTS	LF	1,110.000	86
	620	6008		ELEC CONDR (NO.8) INSULATED and DOLLARS CENTS	LF	2,580.000	87
	624	6001		GROUND BOX TY A (122311) and DOLLARS CENTS	EA	2.000	88
	624	6008		GROUND BOX TY C (162911)W/APRON and DOLLARS CENTS	EA	3.000	89
	628	6055		ELC SRV TY A 240/480 060(SS)SS(E)SP(U) and DOLLARS CENTS	EA	1.000	90
	636	6003		ALUMINUM SIGNS (TY O) and DOLLARS CENTS	SF	2,845.000	91
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) and DOLLARS CENTS	EA	54.000	92
	644	6017		IN SM RD SN SUP&AM TY10BWG(2)SA(P) and DOLLARS CENTS	EA	7.000	93
	644	6076		REMOVE SM RD SN SUP&AM and DOLLARS CENTS	EA	50.000	94
	647	6002		RELOCATE LRSA and DOLLARS CENTS	EA	6.000	95

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	ITEM NO	DESC CODE	S.P. NO.				
	647	6003		REMOVE LRSA DOLLARS and CENTS	EA	16.000	96
	650	6032		INS OH SN SUP(30 FT CANT) DOLLARS and CENTS	EA	12.000	97
	658	6061		INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2 DOLLARS and CENTS	EA	93.000	98
	662	6052		WK ZN PAV MRK REMOV (REFL) TY II-C-R DOLLARS and CENTS	EA	951.000	99
	662	6060		WK ZN PAV MRK REMOV (W)4"(BRK) DOLLARS and CENTS	LF	17,892.000	100
	662	6061		WK ZN PAV MRK REMOV (W)4"(DOT) DOLLARS and CENTS	LF	351.000	101
	662	6063		WK ZN PAV MRK REMOV (W)4"(SLD) DOLLARS and CENTS	LF	75,413.000	102
	662	6073		WK ZN PAV MRK REMOV (W)12"(SLD) DOLLARS and CENTS	LF	603.000	103
	662	6082		WK ZN PAV MRK REMOV (W)(ENTR GORE) DOLLARS and CENTS	EA	10.000	104
	662	6083		WK ZN PAV MRK REMOV (W)(EXIT GORE) DOLLARS and CENTS	EA	9.000	105
	662	6095		WK ZN PAV MRK REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	72,265.000	106
	666	6005		REFL PAV MRK TY I (W)4"(DOT)(090MIL) DOLLARS and CENTS	LF	341.000	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	6035		REFL PAV MRK TY I (W)8"(SLD)(090MIL) DOLLARS and CENTS	LF	15,248.000	108
	666	6038		REFL PAV MRK TY I (W)12"(LNDP)(090MIL) DOLLARS and CENTS	LF	678.000	109
	666	6041		REFL PAV MRK TY I (W)12"(SLD)(090MIL) DOLLARS and CENTS	LF	3,035.000	110
	666	6283		REF PROF PAV MRK TY I(W)4"(SLD)(090MIL) DOLLARS and CENTS	LF	80,305.000	111
	666	6287		REF PROF PAV MRK TY I(Y)4"(SLD)(090MIL) DOLLARS and CENTS	LF	79,493.000	112
	666	6299		RE PM W/RET REQ TY I (W)4"(BRK)(090MIL) DOLLARS and CENTS	LF	38,119.000	113
	668	6018		PREFAB PAV MRK TY B (W)(24")(SLD) DOLLARS and CENTS	LF	62.000	114
	668	6019		PREFAB PAV MRK TY B (W)(ARROW) DOLLARS and CENTS	EA	4.000	115
	668	6027		PREFAB PAV MRK TY B (W)(WORD) DOLLARS and CENTS	EA	4.000	116
	672	6010		REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	2,973.000	117
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	170,779.000	118
	677	6003		ELIM EXT PAV MRK & MRKS (8") DOLLARS and CENTS	LF	4,788.000	119

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	677	6005		ELIM EXT PAV MRK & MRKS (12") DOLLARS and CENTS	LF	9,528.000	120
	677	6007		ELIM EXT PAV MRK & MRKS (24") DOLLARS and CENTS	LF	15,722.000	121
	678	6001		PAV SURF PREP FOR MRK (4") DOLLARS and CENTS	LF	198,258.000	122
	678	6004		PAV SURF PREP FOR MRK (8") DOLLARS and CENTS	LF	15,248.000	123
	678	6006		PAV SURF PREP FOR MRK (12") DOLLARS and CENTS	LF	3,713.000	124
	678	6008		PAV SURF PREP FOR MRK (24") DOLLARS and CENTS	LF	62.000	125
	678	6009		PAV SURF PREP FOR MRK (ARROW) DOLLARS and CENTS	EA	4.000	126
	678	6016		PAV SURF PREP FOR MRK (WORD) DOLLARS and CENTS	EA	4.000	127
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	2.000	128

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

GENERAL NOTES:

Maintain adequate drainage throughout the limits of the project during all construction phases.

Provide on a weekly basis a list of equipment, including idle equipment, utilized on the project that week.

Item 000 Utilities

Consider the locations of underground utilities depicted in the plans as approximate and employ responsible care to avoid damaging utility facilities. Depending upon scope and magnitude of planned construction activities, advanced field confirmation by the utility owner or operator may be prudent. Where possible, protect and preserve permanent signs, markers, and designations of underground facilities. If utility damage (breaks, leaks, nicks, dents, gouges, etc.) occurs, contact the utility facility owner or operator immediately. In the event utility lines needing unforeseen adjustments are encountered during construction operations, alter operations and continue to prosecute the contract in such a manner that will allow utility adjustments to be made by others.

Item 5 Control of the Work

Station the project prior to commencing work. Mark the stations every 100 feet. Maintain stationing throughout the duration of the project. Remove the station markings at the completion of the project. Consider this work to be subsidiary to the various bid items of the contract.

Verify all horizontal and vertical control, approach grades to structures and driveways prior to beginning work. Notify the Engineer immediately if discrepancies are discovered.

The Union Pacific Railroad right of way is located within this project. Take necessary precautions to insure that no debris or material is dropped on the railroad's tracks.

Item 6 Control of Materials

Mixing of materials, storing of materials, storing of equipment, or repairing of equipment on top of concrete pavement or bridge decks will not be permitted unless specifically authorized by the Engineer. Permission will be granted if, in the opinion of the Engineer, storage of the materials will not cause damage or discoloration. Any damage resulting from this work will be corrected at the Contractor's expense.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Item 7 Legal Relations and Responsibilities

Furnish all materials, labor and incidentals required to provide for traffic across the highway and for temporary ingress and egress to private property in accordance with article 7.2.4 of the standard specifications at no additional cost to the state. Maintain ingress and egress to the adjacent property at all times. Consider this work to be subsidiary to the various bid items of the contract.

The Contractor shall be completely responsible for the immediate removal of any material that gets upon any vehicle as a result of their operation.

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.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Personal vehicles of the contractor's employees shall not be parked within the right-of-way at any time including any section closed to public traffic, unless the vehicle is being utilized for construction procedures. However, the Contractor's employees may park on the right-of-way at sites where the contractor has their office, equipment and materials storage yard.

Item 8 Prosecution and Progress

Working days will be charged during all observed curing times, even if no other work is being performed.

Compute and charge working days in accordance with Article 8.3.1.4 Standard Workweek.

Submit monthly progress schedules in accordance with 8.5.5.2.3. Failure to supply updated project schedule may result in the Engineer withholding progress (monthly) payments.

Adjoining projects may be in progress during the construction of a portion of this project. Plan and prosecute the sequence of construction and the traffic control plan with adjacent construction projects, if applicable. Manage construction of all phases to minimize disruption to traffic.

Notify the Engineer 72 hours in advance of any temporary or permanent lane, ramp or connector affected by closures, detours, or restrictions to lane widths, alterations to vertical clearances or modifications to alignment/radii. Any other modification to the roadway that may adversely

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

affect the mobility of oversized/overweight trucks shall require 5 business day advance written notice to the Engineer.

Work requiring temporary lane, ramp, or connector closures will only be allowed during non-peak hours, and only with written approval of the Engineer. Unless otherwise approved by the Engineer non-peak hours will be nighttime, or weekends. Nighttime hours will be defined as 9:00 PM until 5:00 AM, Sunday night thru Thursday night. Weekend hours will be defined as 9:00 PM on Friday night until 5:00 AM on Monday morning. No lane, ramp or connector closures will be allowed at any time during the following unless approved in writing by the Engineer: on Good Friday until midnight Easter Sunday, after 7 AM Tuesday before Thanksgiving Day through midnight Sunday after Thanksgiving, after 7 AM December 23 through January 2. Two lanes in each direction of each travel way is to remain open at all times. Placement of traffic control devices for night or weekend operations shall not commence until after the start time and all devices shall be removed from the roadway prior to the finish time. For all travel lanes, ramps, or connector closures, provide information regarding dates, times, typical work hours, type of closure, reason for closure, and expected project duration to the Beaumont Area Office. This information shall be provided at least 72 hours in advance of the closure to the Beaumont Area Office. At specific locations noted in the plans, additional notification requirements shall apply. If approved, the Beaumont Area Office will forward the information to the Public Information Officer for the Beaumont District.

The Contractor shall begin work on this project within 7 calendar days of written notification to begin work. The Contractor shall notify the Engineer at least 24 hours in advance of beginning any work.

Work may be performed on Saturday when approved by the Engineer.

No simultaneous daytime and nighttime work will be allowed unless otherwise approved by the Engineer.

Limit lane closures to 2 miles unless otherwise approved by the Engineer.

The Contractor will be expected to schedule this work so that the base placement operations will follow the subgrade work as closely as practical in order to reduce the hazard to the traveling public and prevent undue delay from wet weather.

Supplemental lighting in addition to lighting on equipment and work vehicles will be required to insure adequate lighting for workers safety and inspection. All operations including planing and ACP placement must be adequately lighted using supplemental lighting. All supplemental lights are subject to the approval of the Engineer. Supplemental lighting shall be added to the milling machine, asphalt distributor, aggregate spreader, rollers and laydown machine unless otherwise approved by the Engineer. This is considered subsidiary to the various bid Items of the contract.

All edges not protected with positive barrier must be backfilled daily with a 3:1 or flatter slope. No drop offs will be left overnight.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

The Engineer will suspend time charges after completion of all work and removal of the barricades. The Department will grant final acceptance when all performance periods are complete. The number of working days for final acceptance will be **10** working days after the completion of the project.

Accrue Contract time charges through the Contractor's completion of the final punch list. Time will not be suspended until all work is completed.

Submit a work schedule to the Engineer at the preconstruction meeting indicating completion dates for each location, and the number of crews required for the completion of the contract within the contract time period. If at any time during the contract the work progress is behind the initial schedule, submit documentation indicating how the project will be accelerated to ensure project completion in the remaining contract time.

Provide a sequence of work with an estimated project schedule to the Engineer at the preconstruction meeting. By noon of each Wednesday, provide the Engineer a written outline of the proposed work schedule for the following week. This outline will also list the times and places for any proposed traffic control changes.

Monthly critical path method (CPM) updates are a very important aspect of managing the progress of this project. CPM planning schedule software will be required on this project as stipulated in the special provisions to the plans. An updated electronic schedule shall be provided to the Engineer by the tenth day of each month. The Engineer may withhold the monthly estimate if the schedule update has not been received.

Work will not be permitted when impending bad weather or low temperatures may impair the quality of work.

The construction sequence may be modified as directed and approved by the Engineer.

Wait three hours after applying prime to base before using blotter or allowing traffic on base unless approved otherwise by the Engineer.

Law enforcement will be required for this contract under the following conditions unless otherwise directed by the Engineer:

- Work involving controlled access facilities,
- Night work operations that create substantial traffic safety risks for workers and/or road users,
- Major traffic shifts involving high speed (greater than 55 MPH) and/or high volume roadways (ADT exceeds 10,000),

Provide full-time, off-duty uniformed officer(s), with transportation jurisdiction and full police powers in the county or city in which the project is located, during construction as directed by the Engineer. The officer(s) must be able to show proof of certification by the Texas Commission on Law Enforcement Officers Standards. Coordinate with local law enforcement

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

and arrange for law enforcement as directed or agreed by the Engineer. Complete the daily 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.

HURRICANE

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.

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.

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.

Item 104 Removing Concrete

Saw the longitudinal break-back line when removing the existing concrete pavement for stage construction. Saw depth to be approximately two (2) inches. The saw depth is to increase, if the edge of the existing concrete pavement to remain in place is not reasonably straight or as directed by the Engineer. Consider this work to be subsidiary to the various bid items of the contract.

Replace that portion of the pavement removed where the storm sewer crosses the existing concrete pavement and replace it with approximately ten (10) inches of flexible base and one (1) inch of asphaltic concrete pavement. Consider this work to be subsidiary to the various bid items of the contract.

Provide full-depth saw cutting for removal of existing concrete driveways that conflict with the proposed widening. Consider this work to be subsidiary to the various bid items of the contract.

Remove the existing concrete curb and rebar flush with the concrete pavement.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Limits of riprap and/or mow strip removal will be as directed by the Engineer.

Item 105 Removing Treated and Untreated Base and Asphalt Pavement

All removed material shall become property of the Contractor.

Item 110 Excavation

Any earthwork cross-sections, computer printouts, data files and any other information provided is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the data with the appropriate plans, specifications and estimates for the projects. Contact the Area Office for information on availability.

Do not windrow or stockpile material next to or along the roadway. Remove excess material from the project daily.

Item 132 Embankment

Compaction method specified as density control compaction.

It is the Contractor's responsibility to advise the Engineer of the location of the material source sufficiently in advance to avoid delay due to testing requirements.

Any earthwork cross-sections, computer printouts, data files and any other information provided is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the data with the appropriate plans, specifications and estimates for the projects. Contact the Area Office for information on availability.

All slopes requiring embankment 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.

Item 150 Blading

Use blading to consolidate soft spots or reshape ditches. Quantity by the hour includes both sides of the roadway.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

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.

Place Topsoil in accordance with the SW3P, in phases, as partial completion of the roadway is obtained.

Item 164 Seeding for Erosion Control

Final grading and stabilization (seeding) shall be achieved as soon as possible and not scheduled only for the end of the project. Final grading and stabilization should be initiated as the overall work progresses.

Multiple mobilizations of the seeding crews will be expected to comply with the Construction General Permit of the Texas Pollution Elimination Discharge System requirements for re-vegetating disturbed soils.

Item 166 Fertilizer

Fertilize all the seeded or sodded areas of project.

Item 168 Vegetative Watering

Equip water trucks with sprinkler systems capable of covering the entire area to be seeded or sodded from the roadway.

Water all newly placed sod or seeded areas the same day of installation. Thereafter, maintain the sod or seeded areas in a well-watered condition and at no time allow the areas to dry to the condition that water stress is evident.

Mechanical watering may not be required during periods of adequate moisture as determined by the Engineer.

Furnish and apply water at a rate of 6.788 Mega gallons per acre per cycle.

Comply with stabilization requirements for 70% grass coverage; uniform vegetative coverage is required. During this period, meter and operate water equipment under pumping pressure capable of delivering the required quantities of water necessary. For Permanent seeding each cycle shall be executed weekly for 12 weeks, unless directed otherwise by the Engineer. For Temporary seeding each cycle shall be executed weekly for 6 weeks, unless directed otherwise by the Engineer.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Provide a log book showing daily water usage and receipts of water applied, in addition to metering the water equipment.

Item 260 Lime Treatment (Road-Mixed)

Do not place dry lime.

Compact to at least 95% of the maximum density.

Item 276 Cement Treated (Plant-Mixed)

Use Class L, TY A, Grade 1-2 material.

Item 300 Asphalts, Oils, and Emulsions

Furnish non-tracking tack coat meeting the following requirements:

Apply non-tracking tack coat at 0.04 – 0.08 residual or 0.08 to 0.16 total GAL/SY for emulsion.

Item 320 Equipment for Asphalt Concrete Pavement

Use of motor grader is allowed.

A field laboratory is not required for this project.

Item 360 Concrete Pavement

Concrete placement will not be permitted when impending weather conditions, in the opinion of the Engineer, may result in rainfall or low temperatures which will impair the quality of the finished work.

Repair portions of the concrete pavement surfaces that are damaged while in a plastic state before that area receives permanent pavement markings and opens to traffic. Perform repairs that are structurally equivalent to and cosmetically uniform with the adjacent undamaged areas. Do not repair by grouting onto the surface.

Provide reinforcement corrosion protection.

Mixing of materials, storing of materials, storing of equipment, or repairing of equipment on top of concrete pavement or bridge decks will not be permitted unless specifically authorized by the Engineer. Permission will be granted if, in the opinion of the Engineer, storage of the materials will not cause damage or discoloration. Any damage resulting from this work will be corrected at the Contractor's expense.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Item 403 Temporary Special Shoring

Submit design calculations and detail sheets bearing the seal of a licensed professional Engineer for all temporary shoring. Do not begin work until the design calculations and detail sheets have been approved. The contractor will be responsible for the complete design, fabrication and removal of the temporary shoring.

Item 421 Hydraulic Cement Concrete

Entrained air is required in all slip formed concrete (bridge rail, concrete traffic barrier, pavement, etc.), but is not required for other structural concrete. Adjust the dosage of air entraining agent for low air content as directed or allowed by the Engineer.

Item 423 Retaining Wall

Provide Ashlar Rock surface finish for walls.

Provide Concrete Paint for Surface Area I in accordance with Item 427. Concrete paint will be considered subsidiary to Item 423.

For MSE walls, provide a system from one of the approved suppliers as listed on the following website: <http://www.txdot.gov/business/resources/approved-systems/mse-wall.html>

Prior to beginning construction of Permanent MSE Walls, provide a written statement selecting either **Type BS** backfill or **Cement-Stabilized** backfill.

At no time will the retaining wall backfill material exceed the adjacent embankment operation by more than one embankment lift. At no time will the embankment adjacent to the retaining wall backfill exceed the wall backfill by any elevation.

Item 442 Metal for Structures

Use temperature Zone 1 for CVN testing

Item 467 Safety End Treatment

All Type II SET's will be precast. Riprap aprons will not be required.

Grading required for shaping driveways and side road turnouts, including embankment for pipe culverts at these access locations, will be considered subsidiary to various bid items.

Item 496 Removing Structures

All structures removed will become the property of the Contractor, who shall be responsible for proper handling and disposal.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Item 502 Barricades, Signs, and Traffic Handling

Construct all work zone signs, sign supports, and barricades from material other than wood unless approved otherwise by the Engineer. Metal posts, if used, are to be galvanized. Aluminum signs, if used, shall meet the following minimum thickness requirements:

<u>Square Feet</u>	<u>Minimum Thickness</u>
Less than 7.5	0.080 inches
7.5 to 15	0.100 inches
Greater than 15	0.125 inches

Restrict work to one side of the roadway at a time.

Any work being done above travel lanes on an overhead sign bridge will require the lanes to be closed for traffic safety.

Use drums as channelizing devices.

Remove all traffic control devices from the right of way when they are not in use. Devices scheduled to be used within 3 days may be placed along the shoulder of the roadway or along the right of way when not in use, or stored in other approved areas on the project. Cover any construction signs that are not in effect and are installed in a fashion that will not allow them to be removed from the right of way easily.

Arrange construction operations to prevent the hauling of materials through the completed pavement sections unless otherwise approved by the Engineer.

Item 504 Field Office and Laboratory

Provide Field Office and Laboratory Type B.

Provide a high speed internet connection in the hot mix laboratory at the plant that produces their mix for use by the State.

Item 506 Temporary Erosion, Sedimentation, and Environmental Controls

Construct all side slopes on rock filter dams with 6:1 slopes.

The Contractor shall designate a clean out area for concrete trucks. No other area will be allowed without approval of the Engineer.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Item 512 Portable Concrete Traffic Barrier

Place all portable concrete barriers in a manner such that exposed ends are not facing traffic. In situations where this is not possible, the adjacent lane is to be closed and a truck mounted attenuator will be used to protect the exposed end until appropriate treatment can be provided.

Portable Concrete Traffic Barrier is to be pinned at the locations specified in the Plans. Pinning of barriers shall be accomplished using a rotary hammer drill. Percussion (star drill) type drilling equipment shall not be used.

Item 530 Intersections, Driveways, and Turnouts

Welded wire fabric will not be allowed for reinforcing concrete driveways. Use reinforcing steel consisting of No. 3 or 4 bars meeting the requirements of grade 40 or 60 reinforcing steel. Place bars on 12 in. centers in each direction, supported on reinforcing chairs.

Unless otherwise directed, install 1/2 in. pre-molded expansion joint material between existing concrete and new concrete.

Item 540 Metal Beam Guard Fence

Provide Type II metal beam rail elements.

Provide round timber posts.

Provide timber posts on all metal beam guard fence installations except where CRT low-fill culvert posts are required in accordance with details shown on the Long Span Metal Beam Guard Fence standard sheet.

Field fabricate low-fill culvert posts to insure proper metal beam guard fence height.

At the close of work each day, protect the ends of metal beam guard fence in an approved manner, so that no blunt ends are exposed to approaching traffic.

Item 542 Removing Metal Beam Guard Fence

Payment for this item includes removal of all terminal anchorage sections, downstream anchor terminals, and thrie-beam sections, which are considered part of the total length of removal.

Accept ownership of removed metal beam guard fence and terminal anchors.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Item 545 Crash Cushion Attenuators

See standards in the plan set for information describing the attenuator's details: direction of traffic, design speed, foundation, backup support, backup width, and/or transition options.

Payment for D&OM(VIA)-15, and all required object markers and barrier reflectors on the attenuators will be considered subsidiary to this Item.

Item 560 Mailbox Assemblies

Retain and reuse or, if necessary, replace newspaper holders removed, relocated, or damaged by construction operations for placement on new mailbox assemblies in accordance with mailbox standard sheets. Where needed, temporary mailboxes will be mounted on barrels as shown on MB-15(1), Type 6. Consider this work subsidiary to this Item.

Repair and, if necessary, replace mailboxes damaged by construction operations. Consider this work subsidiary to this Item.

Item 585 Ride Quality for Pavement Surfaces

For Continuously Reinforced Concrete Pavement (CRCP) mainlanes and direct connectors, use Surface Test Type B and Pay Adjustment Schedule 2. For ramps use Surface Test Type A.

For all other roads (cross streets and intersections), use Surface Test Type A.

Submit quality control results to TxDOT the next working day after each day's paving.

Prior to beginning diamond grinding operations on concrete, submit for approval a plan outlining the method of collection and disposal or recycling for waste materials produced by diamond grinding operations. Do not allow slurry created from concrete grindings to enter inlets, storm sewers, ditches, or waterways.

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.

PVC Conduit systems that snap or lock together without glue and that are UL listed to be used for bored PVC electrical applications, will be allowed for PVC Schedule 40 and PVC schedule 80 upon approval.

Place conduit under existing roadways and/or driveways as directed by the Engineer and in accordance with Item 476.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Cap, do not glue, open ends of conduit.

If casing is required in order to place bored conduit, consider the casing incidental and subsidiary to the conduit.

Ensure open trenches and excavations are filled at the end of each work day.

Leave a minimum length of 2 feet for each conductor cable in each ground box and in each pole.

When backfilling bore pits, ensure that the conduit does not become damaged during installation or due to any settling of the backfill material. Compact select backfill (use Type SM or SC) in three equal lifts to the bottom of the conduit; or if sand is used, it must be placed to a point 2 inches above the conduit. Backfill density shall be equal to the existing soil. Exercise due care to prevent any material from entering the conduit.

Place conduit under existing pavement by boring unless otherwise directed. Pits for boring shall not be closer than 3 feet from edge of pavement unless otherwise approved. Water jetting will not be permitted. At the close of work each day, cover all open pits and barricade for safety.

Use of a pneumatically driven device for punching holes beneath pavement (commonly known as a "missile") will not be permitted on this project.

Remove all abandoned conductor and conduit to 1 foot below ground level. This work will not be paid for directly, but will be considered subsidiary to the pertinent bid items.

After placement of cable and conduit, restore the natural ground to its original contour. Restore all driveways to their original condition. Consider this work subsidiary to this bid item.

When conduit is laid in a trench or bored, minimum depth to the top of the conduit shall be 3 feet. Where obstructions prevent laying conduit at this depth, place conduit at the maximum depth possible.

Where a trench is cut through the pavement, surfaced shoulder, or median or driveways for laying conduit, replace the base and surfacing with similar material equal in appearance and quality to the original construction. Consider this work to be subsidiary to this bid item.

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

Refer to plans and specifications for type of conduit. Waterproof and tighten all couplings and connections. Bring all proposed and existing conduit into a ground box and 'elbow' it unless otherwise shown on the plans. Provide a bushing to protect the wire from abrasion when a conduit run terminates.

Replace sections of conduit with the size and type shown on the plans in the event the existing conduit proves unusable due to location or damage.

Secure permission from the proper authority as directed before cutting into or removing any sidewalks or curbs for installation of this Item.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

The locations of conduit and ground boxes are diagrammatic and will be shifted, as directed, to accommodate field conditions.

Install conduit in an area not exceeding 2 ft. in any direction from a straight line with the depth of the conduit at least 2 ft. unless otherwise shown on the plans. Installation of the conduit by jacking or boring method will be at a depth of at least 1 ft. below the bottom of the base material of the roadway. Evidence of damage to the roadway during the jacking or boring operation will be enough grounds to stop the method being used.

Install conduit on a 2 in. sand cushion and backfill with at least 6 in. of sand. Backfill the remainder of the trench with flexible base, soil or two-sack concrete as required by the location of the conduit or as directed.

Consider all conduit elbows and rigid metal extensions required to be installed on PVC conduit systems subsidiary.

Install a non-metallic pull rope in conduit runs, which are longer than 50 ft. Installed pull ropes in conduit are for future use and will be capped using standard weather tight conduit caps as directed. Consider this work subsidiary to the pertinent Items.

Install a continuous bare or green insulated copper wire No. 8 AWG or larger in every conduit throughout the electrical system including installed loop detectors and traffic signal cables which are in conformance with the Electrical Detail Standard Sheets and the latest edition of the National Electric Code.

Placement of conduit under the existing pavement using the open trench method will not be allowed without prior approval.

Consider all fittings, brackets, and junction boxes necessary to complete the installations subsidiary to the pertinent Items.

Item 620 Electrical Conductors

Identify the conductors as shown on the Electrical Details Standard Sheets when two or more conductors are present in one conduit or enclosure. Use an identification tag with two plastic straps. Each tag will indicate circuit number, letter, or other identification as shown on the plans.

Bond grounding conductors, which share the same conduit, junction box or structures, together at every accessible point in accordance with the Electrical Detail Standard Sheets and the latest edition of the National Electric Code.

All wiring will be in accordance with the National Electric Code and the appropriate Department standard sheets.

All conductors are to be continuous without splice from terminal point to terminal point or as otherwise directed by the Engineer. No aluminum conductors will be allowed on this project.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

When pulling cables or conductors through conduit, lubricate the cables or conductors with lubricant generally used for this purpose.

Test each wire of each cable or conductor after installation. Any incomplete circuit or any damage to any wire or any cable is cause for immediate rejection of the entire cable being tested. Removal and replacement of the entire cable will not be paid for separately, but will be considered subsidiary to the various bid items. The replacement cable will also be tested after installation.

Provide ends of wires to be attached to terminal posts with properly sized self-insulated crimping-type solderless terminals. Attach these terminals to wires with a ratchet type compression crimping tool properly sized to the wire. Place pre-numbered identification tags of plastic or tape around each wire adjacent to the wire ends in the controller, and terminal blocks.

Color code all insulated power conductors in accordance with the national electrical code and TxDOT standard ED sheets. White will be the neutral conductor and will not be used for any other conductor. The grounding conductor will be bare or green. Green will not be used for any other conductor.

Do not use colored tape marking on conductors size 6 AWG or smaller.

Bond together grounding conductors that share the same conduit, junction box, ground box or structure at every accessible point in accordance with the current national code and TxDOT standard ED sheets.

Electrical certification for this project will be as per Item 7 of the current Texas Standard Specifications and any special provisions to Item 7.

Item 624 Ground Boxes

Place ground boxes 5 feet from the edge of shoulder or curb or as otherwise directed. Additional ground boxes may be required as determined by the Engineer.

Location and estimated number of ground boxes are diagrammatic only and may vary to accommodate field conditions as directed.

Provide ground boxes manufactured from reinforced polymer concrete (RPM) composed of borosilicate glass fiber, a catalyzed polyester resin and aggregate.

Class A concrete will be considered miscellaneous.

Provide all personnel and equipment necessary to remove ground box lids for inspection by the Engineer. Provide this assistance within 24 hours after notification from the Engineer.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Item 628 Electrical Services

Construct electrical services as shown on the ED sheets. Make all arrangements for electrical services and comply with local standards for proper installation.

Ensure the service closure is assembled by a Company shown on the prequalified Material Producers List for “Roadway Illumination and Electrical Supplies” located on the following web site:

<http://www.txdot.gov/business/resources/producer-list.html>

Before any UL listed electrical service assembly can be purchased or installed an electrical service data chart will have to be furnished with accurate information for that electrical services specific location. This chart is to go to the UL 508A Listed Industrial Control Panel Shop building the service enclosure. The information to be shown on the chart will be as follows: electrical service description as per bid code, service number, service riser conduit size, service conductors number and size, main circuit breaker size, two-pole contactor size when required, panel board ampere rating (which will be a minimum of 100 amps), and branch circuit breakers identified and number of poles and size of branch circuit breakers provided.

The location of the service poles as shown are approximate. Any and all cost associated with the installation and connection of the service poles to the electrical utility company will be considered incidental to the service pole. This includes conduit, conduit fittings and electrical conductors.

Furnish and install service pole address numbers and letters. Provide type and size of letters and numbers as approved by the Engineer.

Provide lockable service enclosures equipped with Master #2195 padlocks with two keys for each lock.

Power provided to the locations shown for primary line extensions, connection and meter charges and other expenses by the utility company will be paid for under Force Account Work. Ensure the costs associated with these charges are approved before engaging the utility company to do the work.

Item 636 Signs and/or Item 644 Small Roadside Sign Assemblies and/or Item 647 Large Roadside Sign Supports and Assemblies

Remove and stockpile all existing signs and sign posts within the project that are not to remain, at a stockpile location designated by the Engineer. Remove the signs from the posts. Replace any signs or post damaged by the Contractor at his/her entire expense. Consider this work to be subsidiary to the various bid items of the contract.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Item 644 Small Roadside Sign Supports and Assemblies

Erect Reference Marker signs at the same station as they were located prior to removal.

Item 647 Large Roadside Sign Supports and Assemblies

Remove and stockpile all existing signs and sign posts within the project that are not to remain, at a stockpile location designated by the Engineer. Remove the signs from the posts. Replace any signs or post damaged by the Contractor at his/her entire expense. Consider this work to be subsidiary to the various bid items of the contract.

Item 658 Delineator and Object Marker Assemblies

Use Type A reflector unit (sheeting) on delineator assemblies attached to concrete barrier.

Mount reflector at a height of 4.0' to 4.5' from the bottom of the continuous concrete barrier. If this cannot be achieved mount reflector 6" from the top of the barrier to the bottom of the reflector.

Use bolt-on attachment for delineator assemblies attached to guard fence.

Install delineators when directed by the Engineer. This may require installation of delineators on portions of guardrail and bridge rail that is not being repaired in order to maintain consistency with adjacent sections.

As shown in DMS 8600, use Type A reflective materials for Type C delineator units.

MBGF will receive Type C GF1 delineators installed on 100' maximum spacing.

Type C delineators shall be installed using Adhesive 795A manufactured by Davidson Traffic Control Products or an equivalent approved by the engineer in writing.

Item 662 Work Zone Pavement Markings

Place work zone pavement markings within 7 calendar days after elimination of the existing striping and placement of short term striping. If it is not possible to place the standard pavement markings due to inclement weather, maintain the short-term pavement markings in accordance with Item 662, "Work Zone Pavement Markings" until placement of the standard markings is possible. Maintenance of the short-term pavement markings will not be paid for directly but will be considered subsidiary to Item 662.

Removable work zone pavement markings will consist of Traffic Buttons meeting DMS-4300. Other materials will not be allowed for these markings.

County: Orange

Control: CSJ 0028-11-179, etc.

Highway: IH 10

Item 666 Reflectorized Pavement Markings

Furnish Type II drop-on glass beads.

Item 677 Eliminating Existing Pavement Markings and Markers

Remove all contaminants and loose material. Consider this work to be subsidiary to the various bid items of the contract.

Remove existing raised pavement markers prior to the addition of the asphaltic pavement or seal coat. Dispose of the removed markers from the project at the end of each workday. Consider this work to be subsidiary to the various bid items of the contract.

Item 678 Pavement Surface Preparation for Markings

Blast cleaning is required method of preparation for all pavement markings.

CONTROL : 0028-11-179, ETC
PROJECT : C 28-11-179, ETC
HIGHWAY : IH 10
COUNTY : ORANGE

TEXAS DEPARTMENT OF TRANSPORTATION

GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

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

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

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 104 REMOVING CONCRETE
ITEM 105 REMOVING TREATED AND UNTREATED BASE AND ASPHALT PAVEMENT
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (100) (160) (204) (210) (216) (260) (400)
ITEM 150 BLADING
ITEM 160 TOPSOIL (168)
ITEM 164 SEEDING FOR EROSION CONTROL (166) (168)
ITEM 168 VEGETATIVE WATERING
ITEM 169 SOIL RETENTION BLANKETS
ITEM 260 LIME TREATMENT (ROAD-MIXED) (105) (132) (204) (210) (216)
(247) (300) (310) (520)
ITEM 276 CEMENT TREATMENT (PLANT-MIXED) (204) (210) (216) (247) (300)
(520)
ITEM 310 PRIME COAT (300) (316)
ITEM 340 DENSE-GRADED HOT-MIX ASPHALT (SMALL QUANTITY) (300) (301)
(320) (520) (585)
ITEM 360 CONCRETE PAVEMENT (421) (422) (438) (440) (529) (585)
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (110) (132) (401)
(402) (403) (416) (420) (421) (423)
ITEM 402 TRENCH EXCAVATION PROTECTION
ITEM 403 TEMPORARY SPECIAL SHORING (410) (411) (423)
ITEM 410 SOIL NAIL ANCHORS (421) (431) (440)
ITEM 416 DRILLED SHAFT FOUNDATIONS (405) (420) (421) (423) (440) (448)
ITEM 420 CONCRETE SUBSTRUCTURES (400) (404) (421) (422) (426) (427)
(440) (441) (448)
ITEM 423 RETAINING WALLS (110) (132) (216) (400) (416) (420) (421) (424)
(440) (445)
ITEM 432 RIPRAP (247) (420) (421) (431) (440)
ITEM 450 RAILING (420) (421) (422) (424) (440) (441) (442) (445) (446)

- (448)
- ITEM 464 REINFORCED CONCRETE PIPE (400) (403) (467) (476)
- ITEM 465 JUNCTION BOXES, MANHOLES, AND INLETS (400) (420) (421) (424) (440) (476)
- ITEM 467 SAFETY END TREATMENT (400) (420) (421) (432) (440) (442) (445) (464)
- ITEM 479 ADJUSTING MANHOLES AND INLETS (400) (421) (465) (471)
- ITEM 480 CLEANING EXISTING CULVERTS
- ITEM 496 REMOVING STRUCTURES
- ITEM 500 MOBILIZATION
- ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
- ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS (161) (432) (556)
- ITEM 508 CONSTRUCTING DETOURS
- ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (420) (421) (424) (440) (442)
- ITEM 529 CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER (360) (420) (421) (440)
- ITEM 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247) (260) (263) (275) (276) (292) (316) (330) (334) (340) (360) (421) (440)
- ITEM 540 METAL BEAM GUARD FENCE (421) (441) (445) (529)
- ITEM 542 REMOVING METAL BEAM GUARD FENCE
- ITEM 544 GUARDRAIL END TREATMENTS
- ITEM 545 CRASH CUSHION ATTENUATORS (421)
- ITEM 613 HIGH MAST ILLUMINATION POLES
- ITEM 614 HIGH MAST ILLUMINATION ASSEMBLIES (441) (442) (445) (613) (616) (620) (628)
- ITEM 618 CONDUIT (400) (476)
- ITEM 620 ELECTRICAL CONDUCTORS (610) (628)
- ITEM 624 GROUND BOXES (420) (421) (432) (440) (618) (620)
- ITEM 628 ELECTRICAL SERVICES (441) (445) (449) (618) (620) (627) (656)
- ITEM 636 SIGNS (643)
- ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421) (440) (441) (442) (445) (636) (643) (656)
- ITEM 647 LARGE ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (416) (421) (440) (441) (442) (445) (636)
- ITEM 650 OVERHEAD SIGN SUPPORTS (416) (420) (421) (441) (442) (445) (449) (618) (636)
- ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
- ITEM 662 WORK ZONE PAVEMENT MARKINGS (666) (668) (672) (677)
- ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS (316) (502) (662) (677) (678) (6040)
- ITEM 668 PREFABRICATED PAVEMENT MARKINGS (678)
- ITEM 672 RAISED PAVEMENT MARKERS (677) (678)
- ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300) (302) (316)
- ITEM 678 PAVEMENT SURFACE PREPARATION FOR MARKINGS

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

SPECIAL LABOR PROVISIONS FOR STATE PROJECTS (000---008)
WAGE RATES
SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---001)
SPECIAL PROVISION "NONDISCRIMINATION" (000---002)
SPECIAL PROVISION "SMALL BUSINESS ENTERPRISE IN STATE FUNDED
CONSTRUCTION" (000---009)
SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---010)
SPECIAL PROVISION "CERTIFICATE OF INTERESTED PARTIES (FORM 1295)"
(000---249)
SPECIAL PROVISION TO ITEM 2 (002---004)
SPECIAL PROVISION TO ITEM 6 (006---001)
SPECIAL PROVISIONS TO ITEM 7 (007---001) (007---003) (007---004)
SPECIAL PROVISIONS TO ITEM 300 (300---007) (300---009)
SPECIAL PROVISION TO ITEM 421 (421---002)
SPECIAL PROVISION TO ITEM 506 (506---003)

SPECIAL SPECIFICATIONS:

ITEM 6001 PORTABLE CHANGEABLE MESSAGE SIGN
ITEM 6040 MOBILE RETROREFLECTIVITY DATA COLLECTION FOR PAVEMENT
MARKINGS

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

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