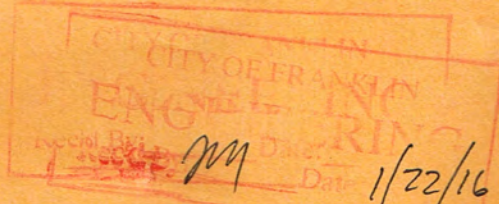


EUTAW

CONSTRUCTION COMPANY, INC.

109 West Commerce Street
Aberdeen, Mississippi 39730
(662) 369-8868

TN License No. 43032 (Exp. 07/31/17)
HRA; HC-D;
MU-A, C, D
Unlimited



1/22/16
10:25 am

BID PROPOSAL

FOR
CITY OF FRANKLIN

HILLSBORO ROAD WIDENING

CONTRACT NO. 2015-0002
PIN: 108409.00
COUNTY: Williamson
FEDERAL PROJECT NO.: STP-EN-106(22)
STATE PROJECT NO.: 94014-3230-04
LOCAL AGENCY REF. NO.: COF Contract No. 2015-0002

ELECTRICAL SUBCONTRACTOR

Stansell Electric Company, Inc.

TN License No. 3989 (Exp. 04/30/17)
CE; HRA-E-1
Unlimited

PROPOSAL CONTRACT

FOR THE CONSTRUCTION OF

Contract No. 2015-0002

PIN: 108409.00

County: Williamson

Federal Project No.: STP-EN-106(22)

State Project No.: 94014-3230-04

Local Agency Reference No.: COF Contract No. 2015-0002

Description Of Project: Roadway widening and streetscape enhancement of Hillsboro Road (SR 106), from south of Joel Cheek Blvd. to north of Claude Yates Drive.

Project Length: 0.828 Miles

Completion Time: On or Before 430 Consecutive Calendar Days from the Approved Contractor Notice to Proceed Date

DBE Goal: 5.0%

By: EUTAW CONSTRUCTION COMPANY, INC.

City, St.: ABERDEEN, MISSISSIPPI

Surety: TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

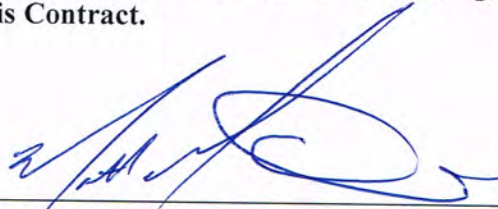
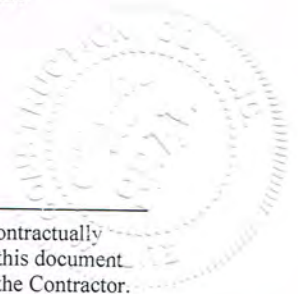
TDOT Version: 1/27/15

ATTESTATION REGARDING PERSONNEL USED IN CONTRACT PERFORMANCE

SUBJECT CONTRACT NUMBER:	CITY OF FRANKLIN CONTRACT NO.: 2015-0002
CONTRACTOR LEGAL ENTITY NAME:	EUTAW CONSTRUCTION COMPANY, INC.
FEDERAL EMPLOYER IDENTIFICATION NUMBER: (or Social Security Number)	64-0636374

The Contractor, identified above, does hereby attest, certify, warrant, and assure that the Contractor shall not knowingly utilize the services of an illegal immigrant in the performance of this Contract and shall not knowingly utilize the services of any subcontractor who will utilize the services of an illegal immigrant in the performance of this Contract.

SIGNATURE &
DATE:

NOTICE: This attestation MUST be signed by an individual empowered to contractually bind the Contractor. If said individual is not the chief executive or president, this document shall attach evidence showing the individual's authority to contractually bind the Contractor.

(SEE ATTACHMENT ON NEXT PAGE)

RESOLUTION OF BOARD OF DIRECTORS

1 Name of Corporation: Eutaw Construction Company, Incorporated.

2 Be it resolved by the Board of Directors of Eutaw Construction Company, Inc., a Corporation organized and existing under the laws of the State of Mississippi and domiciled in 1980, that Alan Lyles, Scott Carter, James Gill, Keith Clark, Lane Williams, Matt McQueen, and Jonathan Hust, are hereby authorized to sign any and all proposals, contracts, bonds, and other contractual documents and/or agreements on behalf of this corporation.

3 That I, Christie Kirkpatrick, Corporate Secretary, hereby certify that the above and foregoing resolution is a true and correct copy of a resolution of the Board of Directors of this corporation which was passed at a meeting, duly called on March 19, 2015 at which a quorum was present.

4 This resolution has been entered into the records of this corporation, has not been rescinded or modified, and remains in full force and effect on this date.

Dated this day 19 of March, 2015.

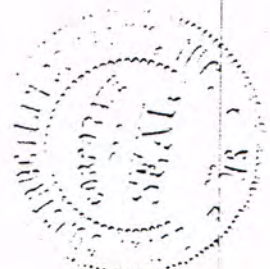
WITNESSES:

Barbara Smith

Karen S. Burroughs

Signature: Christie Kirkpatrick

Federal Tax I.D. Number: 64-0636374



PROPOSAL
TO THE CITY OF FRANKLIN, TENNESSEE
FRANKLIN, TENNESSEE

By submitting this Proposal, the undersigned bidder represents that it has carefully examined the site of the work described herein, has become familiar with local conditions and the character and extent of the work; has carefully examined the Plans, the most current version of the *Standard Specifications for Road and Bridge Construction* and the Standard Roadway and Structures Drawings adopted by the State of Tennessee, Department of Transportation, with subsequent revisions which are acknowledged to be a part of this Proposal, the Special Provisions, the Proposal Form, the Form of Contract, and the Form of Contract Payment and Performance Bond; and thoroughly understands their stipulations, requirements, and provisions.

The undersigned bidder has determined the quality and quantity of materials required; has investigated the location and determined the sources of supply of the materials required; has investigated labor conditions; and, has arranged for the continuous prosecution of the work herein described.

By submitting this Proposal, the undersigned bidder agrees to provide all necessary equipment, tools, labor, incidentals, and other means of construction, to do all the work, and furnish all the materials of the specified requirements which are necessary to complete the work in accordance with the Plans, and the Specifications, and agrees to accept as payment in full the unit prices for the various items described in the Specifications that are set forth in this Proposal. The bidder understands that the quantities of work specified are approximate only and are subject to increase or decrease and that any such increase or decrease will not affect the unit prices set forth in this Proposal. Compensation for "extra work" which may be required by the **CITY** in connection with the construction and completion of the work but which was not reflected in the Plans and Specifications at the time of bidding, will be made in the following manner: work for which there is a unit price set forth in this Proposal will be compensated at that unit price; work for which there is no unit price set forth in this Proposal will be compensated in accordance with the applicable Tennessee Department of Transportation Standard Specifications.

By submitting this Proposal, the undersigned bidder hereby agrees to be bound by the award of the Contract and, if awarded the Contract on this Proposal, to execute the required Contract and the required Contract Payment and Performance Bond within ten (10) days after receipt of notice of the award. The undersigned bidder submits herewith the required Proposal guaranty in an amount of not less than five percent (5%) of the total amount of the Proposal offered and agrees and consents that the Proposal guaranty shall immediately be at the disposal of the **CITY**, not as a penalty, but as an agreed liquidated damage if the required Contract and Contract Payment and Performance Bond are not executed within ten (10) days from receipt of the notice of award.

THIS PROPOSAL SUBMITTED BY:

EUTAW CONSTRUCTION COMPANY, INC.

Bidder (1)

By:

MATTHEW K. MCQUEEN -- DIVISION MANAGER

Printed Name and Title

109 WEST COMMERCE STREET

Address

ABERDEEN, MS 39730

City/State/Zip

Bidder (1) being a **CORPORATION** composed of officers, partners, or owners as follows:
(Type of business entity)

ROBERT T. ELMORE -- PRESIDENT

Name/Title

WILLIAM COX -- EXECUTIVE V.P.

Name/Title

CHRISTIE KIRKPATRICK -- CORP. SECRETARY

Name/Title

ALAN LYLES -- V.P. OPERATIONS

Name/Title

GARY LONG -- V.P. EQUIPMENT

Name/Title

CLARK TAYLOR -- V.P. FINANCE & ADMIN.

Name/Title

Bidder (2)*

By:

Printed Name and Title

Address

City/State/Zip

Bidder (2) being a _____ composed of officers, partners, or owners as follows:
(Type of business entity)

Name/Title

Name/Title

Name/Title

Name/Title

Name/Title

Name/Title

***NOTE: The signature and information for Bidder (2) is to be provided when there is a joint venture.**

Bid Form

THIS BID IS SUBMITTED TO:

CITY OF FRANKLIN, ENGINEERING DEPARTMENT
109 3rd Avenue South
Suite 142
Franklin, TN 37064

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of OWNER.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged.

<u>Addendum No.</u>	<u>Addendum Date</u>
1	01/06/16
2	01/15/16
3	01/19/16
4	01/19/16
5	01/20/16
_____	_____
_____	_____

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

Bid Form

- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities), (2) reports and drawings of a Hazardous Environmental Condition, if any, which has been identified in the Contract Documents.
- E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.
- F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- I. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by ENGINEER is acceptable to Bidder.
- J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.

Bid Form

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

ESTIMATED ROADWAY QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
	105-01	CONSTRUCTION STAKES LINES AND GRADES	L.S.	0.64	0.36	1.00	110,000.00	110,000.00	
(9)	201-01	CLEARING AND GRUBBING REMOVAL OF STRUCTURES AND OBSTRUCTIONS IN ACCORDANCE WITH SECTION 202-01 OF THE STANDARD SPECIFICATIONS, INCLUSIVE BUT NOT LIMITED TO ITEMS SUCH AS SIGNS, CURBS (CONCRETE/ASPHALT), MAILBOXES AND ALL OTHER ITEMS WITHIN THE GRADING LIMITS UNLESS OTHERWISE NOTED TO REMAIN.)	L.S.	0.64	0.36	1.00	20,478.98	20,478.98	
(9)	202-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	L.S.	0.64	0.36	1.00	100,000.00	100,000.00	
	203-01	BORROW EXCAVATION (SOLID ROCK, MAX SIZE 6")	C.Y.	4,874	2,746	7,620	9.00	68,580.00	
(14)	203-02.03	BORROW EXCAVATION (UNCLASSIFIED)	TON	2,500	2,500	5,000	16.00	80,000.00	
	203-03	PLACING AND SPREADING TOPSOIL	C.Y.	1,251	704	1,955	39.00	76,245.00	
	203-04	UNDERCUTTING (UNIT PRICE BIDS INCLUDES MINERAL AGGREGATE, SIZE 1 BACKFILL)	C.Y.	882	497	1,379	8.00	11,032.00	
	203-05	WATER	C.Y.	731	412	1,143	49.00	56,007.00	
	203-06	FURNISHING & SPREADING TOPSOIL	M.G.	1,222	689	1,911	3.00	5,733.00	
	203-07		C.Y.	1,289	726	2,015	20.00	40,300.00	
	204-08	FOUNDATION FILL MATERIAL	C.Y.	322	182	504	41.00	20,664.00	
(1)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL, INCLUDES 100 C.Y. NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION)	C.Y.	656	469	1,125	110.00	123,750.00	
	209-05	SEDIMENT REMOVAL	C.Y.	62	35	97	6.00	582.00	
(2)	209-08.02	TEMPORARY SILT FENCE WITH BACKING, (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	L.F.	1,855	1,045	2,900	4.00	11,600.00	
	209-08.06	ENHANCED SILT FENCE CHECK	EACH	12	7	19	320.00	6,080.00	

Bid Form

ESTIMATED ROADWAY QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
		(TRAPEZOIDAL), DEPTH, OR AS DIRECTED BY THE ENGINEER, AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)							
	209-09.41	CURB INLET PROTECTION (TYPE 2), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	38	22	60	180.00	10,800.00	
	209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	22	13	35	420.00	14,700.00	
	209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	4	2	6	650.00	4,050.00	
(15)	303-01	MINERAL AGGREGATE TYPE A BASE GRADING "D", (INCLUDES 4714 TONS FOR MAINTENANCE OF TRAFFIC)	TON	13,451	7,577	21,028	16.00	376,504.00	
(4)	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	737	415	1,152	27.00	31,104.00	
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A, (INCLUDES 1619 TONS FOR MAINTENANCE OF TRAFFIC)	TON	4,457	2,510	6,967	61.00	424,987.00	
	307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S, (INCLUDES 41 TONS FOR MAINTENANCE OF TRAFFIC)	TON	113	64	177	610.00	107,970.00	
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX, (INCLUDES 1,226 TONS FOR MAINTENANCE OF TRAFFIC)	TON	3,374	1,901	5,275	45.00	237,375.00	

Bid Form

ESTIMATED ROADWAY QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
(16)	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2, (INCLUDES 795 TONS FOR MAINTENANCE OF TRAFFIC, INCLUDES 160 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION)	TON	2,339	1,317	3,656	63.00	230,328.00	
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC), (INCLUDES 13 TONS FOR MAINTENANCE OF TRAFFIC)	TON	39	22	61	790.00	48,190.00	
	402-02	AGGREGATE FOR COVER MATERIAL (PC), (INCLUDES 51 TONS FOR MAINTENANCE OF TRAFFIC)	TON	155	87	242	25.00	6,050.00	
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC), (INCLUDES 7 TONS FOR MAINTENANCE OF TRAFFIC, INCLUDES 0.03 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION)	TON	21	12	33	680.00	22,440.00	
(7)	407-20.05	SAW CUTTING ASPHALT PAVEMENT, (TO BE USED AS DIRECTED BY THE ENGINEER FOR CONNECTIONS AT EXISTING ROADWAYS. IF THE CONTRACTOR ELECTS TO SAW CUT FOR OTHER PURPOSES, PAYMENT SHALL BE DISALLOWED UNLESS PRE-APPROVED BY THE ENGINEER.)	L.F.	5,059	2,850	7,909	1.50	11,863.50	
(17)	411-02.10	ACS MIX (PG70-22) GRADING D, (INCLUDES 466 TONS FOR MAINTENANCE OF TRAFFIC, INCLUDES 33 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION)	TON	1,702	959	2,661	86.00	228,846.00	
(6)	415-01.02	COLD PLAINING BITUMINOUS PAVEMENT, (DEPTH 1.25" +/-, TO BE USED AS DIRECTED BY THE ENGINEER. UNIT PRICE INCLUDES ALL WORK NECESSARY TO PREPARE THE AREA FOR PAVING.)	S.Y.	3,660	2,062	5,722	4.00	22,888.00	
(7)	502-04.01	SAW CUTTING CONCRETE PAVEMENT	L.F.	15	9	24	3.50	84.00	
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	2,190	1,233	3,423	47.00	160,881.00	
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	400	225	625	58.00	36,250.00	
	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	108	61	169	72.00	12,168.00	
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	604	341	945	97.00	86,940.00	

Bid Form

ESTIMATED ROADWAY QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1,361	767	2,128	110.00	234,080.00	
	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	207	117	324	140.00	45,360.00	
(4)	607-50.09	PRECAST CONCRETE BOX CULVERT (6' X 4')	L.F.	704	396	1,100	560.00 450.00	605,000.00 495,000.00	
	611-01.02	MANHOLE, DEPTH 4' - 8' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	1	1	2	3,700.00	7,400.00	
	611-01.20	ADJUSTMENT OF EXISTING MANHOLE	EACH	2	2	4	580.00	2,320.00	
	611-07.54	18" ENDWALL (CROSS DRAIN 3:1)	EACH	1	0	1	1,500.00	1,500.00	
	611-07.63	36" ENDWALL (CROSS DRAIN 3:1)	EACH	0	1	1	3,300.00	3,300.00	
(5)	611-12.02	CATCH BASINS, TYPE 12, DEPTH 4' - 8' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	19	11	30	5,000.00	150,000.00	
(5)	611-12.03	CATCH BASINS, TYPE 12, DEPTH 8' - 12' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	5	3	8	6,300.00	50,400.00	
(5)	611-14.01	CATCH BASINS, TYPE 14, DEPTH 4' - 8' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	8	5	13	7,700.00	100,100.00	
(5)	611-14.02	CATCH BASINS, TYPE 14, DEPTH 8' - 12' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	6	3	9	10,000.00	90,000.00	
	611-39.02	CATCH BASINS, TYPE 39 DEPTH 4' - 8', (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	4	2	6	5,200.00	31,200.00	
	611-42.01	CATCH BASINS, TYPE 42, DEPTH 0' - 4',	EACH	22	13	35	2,700.00	94,500.00	

Bid Form

ESTIMATED ROADWAY QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL, PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
		(COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION, QUANTITY INCLUDES 6 STRUCTURES TO BE COORDINATED WITH STREETSCAPE PLANS PREPARED BY EG&G, INC.)							
	701-01.07	EXPOSED AGGREGATE CONCRETE DRIVEWAY (6" THICKNESS W/ FIBER MESH AND 4" AGGREGATE CLASS "A" GRADING "D" BASE)	S.F.	589	332	921	10.00	9,210.00	
	701-02	CONCRETE DRIVEWAY (6" THICKNESS W/ FIBER MESH AND 4" AGGREGATE CLASS "A" GRADING "D" BASE)	S.F.	606	342	948	7.50	7,110.00	
	701-02.03	CONCRETE CURB RAMP (APPROACH APRON TO BACK OF RIGHT-OF-WAY, 8" THICKNESS W/ FIBER MESH AND 4" AGGREGATE CLASS "A" GRADING "D" BASE)	S.F.	4,146	2,336	6,482	7.50	48,615.00	
	702-01.01	EXTRUDED MOUNTABLE CURB	L.F.	404	227	631	12.00	7,572.00	
	702-01.02	CONCRETE CURB (TYPE "A")	L.F.	179	101	280	29.00	8,120.00	
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	362	204	566	270.00	152,820.00	
(3)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE, (INCLUDES 900 L.F. TO BE USED WITH EROSION CONTROL, UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	L.F.	6,755	3,805	10,560	1.50	15,840.00	
	708-02.01	MARKERS (CONCRETE R.O.W. POST)	EACH	15	9	24	230.00	5,520.00	
	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	15	8	23	39.00	897.00	
	709-05.07	MACHINED RIP-RAP (CLASS A-2)	TON	6	4	10	40.00	400.00	
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	7,446	4,194	11,640	4.50	52,380.00	
(13)	712-01	TRAFFIC CONTROL (UNIT PRICE BID INCLUDES INSTALLATION AND REMOVAL COST OF ALL CONFLICTING PAVEMENT MARKINGS (TEMPORARY OR PERMANENT) INCLUSIVE OF TEMPORARY MARKINGS ON THE FINAL ASPHALT TOPPING.)	L.S.	1	0	1	85,000.00	85,000.00	

Bid Form

ESTIMATED ROADWAY QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL, (ESTIMATED QUANTITY IS BASED ON PHASE, WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE DURATION OF THE PROJECT.)	L.F.	3,837	2,163	6,000	47.00	282,000.00	
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING), (ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE DURATION OF THE PROJECT.)	EACH	629	353	982	37.00	36,334.00	
	712-04.10	TEMPORARY FLEXIBLE TUBULAR DELINEATOR (36" to 42" HEIGHT), (ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	EACH	343	193	536	48.00	25,728.00 25,776.00	D
(18)	712-06	SIGNS (CONSTRUCTION), (ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	S.F.	280	158	438	6.50	2,847.00	
	712-06.01	VERTICAL PANELS (ESTIMATED QUANTITY IS BASED ON PHASE, WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE DURATION OF THE PROJECT.)	S.F.	768	434	1,202	13.00	15,626.00	
(3), (11)	712-06.11 712-08.01	CONSTRUCTION IDENTIFICATION SIGNS UNIFORMED POLICE OFFICER OR UTILITY	EACH HOUR	3 1,919	0 1,081	3 3,000	260.00 \$40.00	760.00 \$120,000.00	

Bid Form

ESTIMATED ROADWAY QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL, PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
		INSPECTOR							
(8)	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST (COORDINATE WITH STD. DRAWING T-S-17)	LB	99	338	437	110.00	48,070.00	
(8)	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK) CHANGEABLE MESSAGE SIGN UNIT (MEETS MUTCD REQUIREMENTS FOR PORTABLE MESSAGE SIGNS, COORDINATE WITH PROJECT MANUAL. SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. AT COMPLETION OF THE PROJECT THE SIGNS SHALL BECOME PROPERTY OF THE CITY OF FRANKLIN STREET DEPARTMENT. THE SIGNS SHALL BE IN LIKE NEW CONDITION, PROPER WORKING ORDER WITH ALL FACTORY MANUALS. A WARRANTY SHALL BE CONVEYED TO THE CITY OF FRANKLIN AT THE COMPLETION OF THE PROJECT FOR A PERIOD EQUAL TO THAT OF THE ORIGINAL AS FURNISHED BY THE MANUFACTURER.)	S.F.	18	211	229	23.00	5,261.00	
(3)	713-16.04	SPRAY THERMO PAVEMENT MARKING (60 MIL), (4" LINE - SSWL, SSSL, DSYL, SBYL & SBWL)	EACH	1	1	2	21,000.00	42,000.00	
	716-13.01	SPRAY THERMO PAVEMENT MARKING (60 MIL), (6" LINE - SSWL-EDGE LINE)	LIN. MI.	3.24	1.83	5.07	3,100.00	15,717.00	
	716-13.02	PLASTIC PAVEMENT MARKING (STOP LINE)	LIN. MI.	0.88	0.49	1.37	3,600.00	4,932.00	
	716-02.05	PLASTIC PAVEMENT MARKING TURN LANE ARROW (LEFT OR RIGHT)	L.F.	143	81	224	16.00	3,584.00	
	716-02.06	PLASTIC PAVMENT MARKING (LONGITUDINAL CROSS-WALK), (QUANTITY IS CALCULATED FROM FACE OF CURB TO FACE OF CURB)	EACH	11	2	13	160.00	2,080.00	
	716-02.09	PLASTIC PAVEMENT MARKING - (STRAIGHT-TURN ARROW)	L.F.	244	138	382	42.00	16,044.00	
	716-04.01	PLASTIC PAVEMENT MARKING - (STRAIGHT ARROW)	EACH	2	0	2	210.00	420.00	
	716-04.05	PLASTIC PAVEMENT MARKING - (BIKE SYMBOL/ARROW)	EACH	1	3	4	130.00	520.00	
	716-04.15	PLASTIC PAVEMENT MARKING - (BIKE SYMBOL/ARROW)	EACH	5	3	8	580.00	4,640.00	

Bid Form

ESTIMATED ROADWAY QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL, PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
(10)	716-05.01	PAINTED PAVEMENT MARKING (4" LINE, SSWL, SSSL, DSYL, SBWL & SBWL)	LIN.	4.39	2.47	6.86	1,600.00	10,976.00	
(10)	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	ML.	143	81	224	6.50	1,456.00	
(10)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	LIN.	0.64	0.36	1.00	1,700.00	1,700.00	
(12)	717-01	MOBILIZATION	ML.	1	0	1	595,000.00	595,000.00	
	722-01.02	FIELD OFFICE (TYPE 2), (ALLOWANCE)	L.S.	1	0	1	\$25,000.00	\$25,000.00	
(2)	740-11.03	TEMPORARY SEDIMENT TUBE 18 INCH (TO BE USED FOR EROSION CONTROL OF "V-DITCH", AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	L.F.	1,855	1,045	2,900	3.50	10,150.00	
	771-30.28	TEMPORARY ASPHALT (COLD MIX, TO BE USED AS DIRECTED BY THE ENGINEER)	S.F.	4,797	2,703	7,500	3.00	22,500.00	
	793-14.10	CORE DRILL CONCRETE STRUCTURES (6" TO 12" DIA., MANHOLE, CATCHBASIN, UTILITY MANHOLE)	EACH	5	5	10	160.00	1,600.00	
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	78	44	122	22.00	2,684.00	
(7)	801-01.17	BONDED FIBER MATRIX HYDROMULCH (WITH TEMPORARY SEED)	UNIT	78	44	122	74.00	9,028.00	
(8)	801-03	WATER (SEEDING & SODDING)	M.G.	182	102	284	31.00	8,804.00	
	803-01	SODDING (NEW SOD, INSTALLATION SHALL BE INSTALLED ON TOPSOIL, TOPSOIL SHALL HAVE A MINIMUM DEPTH OF 6 INCHES)	S.Y.	8,685	4,893	13,578	2.50	33,945.00	
(7)	805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	2,500	2,500	5,000	2.50	12,500.00	
		SUB-TOTAL ROADWAY QUANTITIES						5,868,076.48	

ROADWAY FOOTNOTES:

- (1) TO BE USED AS DIRECTED FOR STORM DRAIN CROSSINGS.
- (2) ITEM MAY BE INTERCHANGED AS APPROPRIATE BASED ON CONSTRUCTION ACTIVITIES.
- (3) TO BE USED AND LOCATED AS DIRECTED BY THE ENGINEER.
- (4) TO BE USED FOR CONSTRUCTION OF THE BOX CULVERT UTILIZED AS PART OF THE STORM DRAINAGE SYSTEM.
- (5) CURB IRON TO HAVE A SOLID BACK PER CITY OF FRANKLIN REQUIREMENTS.

Bid Form

(6) TO BE USED AS DIRECTED BY THE ENGINEER NORTH OF CLAUDE YATES DRIVE.
 (7) TO BE USED AS DIRECTED BY THE ENGINEER.

(8) COORDINATE WITH DESIGN DOCUMENTS PREPARED BY EG&G.

(9) PRIOR TO REMOVAL THE CONTRACTOR SHALL SUBMIT A PLAN OF OPERATIONS FOR APPROVAL BY THE ENGINEER.

(10) TO BE USED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

(11) CITY ORDINANCE REQUIRES THAT OFF DUTY FRANKLIN POLICE OFFICERS BE USED FOR SPECIAL MEETINGS. THEREFORE, THEY RESERVE THE OPTION

(12) THE CITY CURRENTLY HAS A BUILDING THAT MAY BE AVAILABLE FOR USE FOR PROJECT MEETINGS. A PROPOSAL REQUEST WILL BE ISSUED FOR TO USE THAT FACILITY FOR MEETINGS. IF THE CITY BUILDING IS UTILIZED AS A MEETING SPACE, A PROPOSAL REQUEST WILL BE ISSUED FOR ITEMS OF WORK NECESSARY TO BRING THE FACILITY INTO CONFORMANCE WITH THE FIELD OFFICE SPECIFICATION.

(13) COORDINATE WITH ITEM NO. 712-99.92

(14) TO BE USED FOR BACKFILLING LARGE UTILITY TRENCH EXCAVATIONS WITH FILTER STONE AS DIRECTED BY THE ENGINEER.

(15) INCLUDES 4714 TONS FOR MAINTENANCE OF TRAFFIC.

(16) INCLUDES 795 TONS FOR MAINTENANCE OF TRAFFIC, INCLUDES 160 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION.

(17) INCLUDES 466 TONS FOR MAINTENANCE OF TRAFFIC, INCLUDES 33 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION.

(18) ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.

ESTIMATED SIGNALIZATION QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL, PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
(1)	712-99.92	TRAFFIC CONTROL (SIGNALIZATION, SCHOOL FLASHER AND SIGNAL COMMUNICATION INSTALLATION)	LS	1	0	1	3,790.00	3,790.00	
(10)	713-16.20	SIGNS (OVERHEAD STREET NAME SIGNS)	EACH	12	0	12	3,000.00	36,000.00	
(6)	713-16.22	SIGNS (R10-12, 24"X30")	EACH	3	0	3	270.00	810.00	
	713-16.23	SIGNS (SPEED LIMIT 20 MPH WHEN FLASHING, 48" X 36") (INCLUDES FLASHER AND BEACON)	EACH	2	0	2	1,120.00	2,240.00	
	725-02.06	VIDEO ENCODER	EACH	1	0	1	2,150.00	2,150.00	
(15)	725-02.25	FIELD HUB SWITCH (INSTALL ONLY)	EACH	4	0	4	2,440.00	9,760.00	
(17)	725-03.80	CCTV CAMERA SYSTEM	EACH	1	0	1	4,840.00	4,840.00	
(18)	725-05.01	MODEL 336A CABINET WITH CAMERA CONTROLLER	EACH	1	0	1	5,710.00	5,710.00	
	725-05.06	FUSION SPLICE	EACH	16	0	16	560.00	8,960.00	
(21)	725-10.36	PRE-TERMINATED FIBER OPTIC CABLE ASSEMBLY (12 COUNT SMFO)	EACH	6	0	6	670.00	4,020.00	

Bid Form

ESTIMATED SIGNALIZATION QUANTITIES								
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE
	725-10.64	FIBER OPTIC CABLE (12 COUNT SMFO)	L.F.	5,400	0	5,400	2.70	14,580.00
	725-20.54	CABLE (1/C #8 AWG)	L.F.	120	0	120	1.20	144.00
	725-20.55	CABLE (1/C #6 AWG, INCLUDES 650 L.F. PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	L.F.	825	0	825	1.40	1,155.00
(9)	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	L.S.	1	0	1	2,600.00	2,600.00
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	15	0	15	1,000.00	15,000.00
	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE, 3 LEFT)	EACH	3	0	3	1,580.00	4,740.00
	730-03.21	INSTALL PULL BOX (TYPE B, INCLUDES 2 EACH PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	EACH	20	0	20	470.00	9,400.00
	730-03.23	INSTALL PULL BOX (FIBER OPTIC-TYPE A)	EACH	9	0	9	1,460.00	13,140.00
	730-03.24	INSTALL PULL BOX (FIBER OPTIC-TYPE B)	EACH	4	0	4	1,630.00	6,520.00
	730-03.25	INSTALL PULL BOX (ELECTRICAL-TYPE C)	EACH	2	0	2	470.00	940.00
(2,19)	730-05.01	ELECTRICAL SERVICE CONNECTION (INCLUDES 2 EACH PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	EACH	5	0	5	4,160.00	20,800.00
	730-08.01	SIGNAL CABLE - 3 CONDUCTOR	L.F.	300	0	300	1.10	330.00
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR (INCLUDES 125 L.F. PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	L.F.	825	0	825	1.30	1,072.50
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	1,900	0	1,900	1.50	2,850.00
(11)	730-08.10	SIGNAL CABLE (EMERGENCY PREEMPTION CABLE)	L.F.	700	0	700	3.10	2,170.00
	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	70	0	70	9.50	665.00
	730-12.02	CONDUIT 2" DIAMETER (PVC, INCLUDES 200 L.F. PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	L.F.	1,260	0	1,260	9.90	12,474.00
	730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.	1,920	0	1,920	11.25	21,600.00
	730-13.03	VEHICLE DETECTOR (4 - CHANNEL, RACK MOUNT)	EACH	6	0	6	500.00	3,000.00
(4)	730-13.06	VEHICLE DETECTOR (OPTICALLY ACTIVATED PRIORITY CONTROL)	EACH	4	0	4	2,450.00	9,800.00
(5)	730-13.08	VEHICLE DETECTOR (RADIO/GPS ACTIVATED)	EACH	2	0	2	5,610.00	11,220.00

Bid Form

ESTIMATED SIGNALIZATION QUANTITIES								
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL, PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE
		PRIORITY CONTROL						
	730-14.01	SHIELDED DETECTOR CABLE	L.F.	3,200	0	3,200	1.10	3,520.00
	730-14.02	SAW SLOT	L.F.	1,900	0	1,900	4.10	7,790.00
	730-14.03	LOOP WIRE	L.F.	3,400	0	3,400	0.75	2,550.00
(13)	730-15.07	CABINET (FLASHING BEACON, FOR SCHOOL FLASHER INSTALLATION)	EACH	2	0	2	1,160.00	2,320.00
(20)	730-15.11	MODIFY CABINET (FO COMMUNICATION)	EACH	1	0	1	820.00	820.00
(12, 13)	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	2	0	2	26,810.00	52,820.00
(27)	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	2	0	2	4,100.00	8,200.00
(25)	730-16.03	CONTROLLER (FLASHING BEACON, FOR SCHOOL FLASHER INSTALLATION)	EACH	2	0	2	1,160.00	2,320.00
(16)	730-22.36	CCTV POLE 50' POLE HEIGHT/LOWERING DEVICE	EACH	1	0	1	18,350.00	18,350.00
(3)	730-23.30	PEDESTAL POLE (STANDARD)	EACH	7	0	7	1,440.00	10,080.00
(3)	730-23.36	CANTILEVER SIGNAL SUPPORT (1 ARM @ 30')	EACH	1	0	1	10,840.00	10,840.00
(3)	730-23.37	CANTILEVER SIGNAL SUPPORT (1 ARM @ 35')	EACH	2	0	2	11,880.00	23,760.00
(3)	730-23.39	CANTILEVER SIGNAL SUPPORT (1 ARM @ 45')	EACH	2	0	2	12,620.00	25,240.00
(14)	730-23.64	CANTILEVER SIGNAL SUPPORT (1 ARM @ 30', FOR SCHOOL FLASHER INSTALLATION)	EACH	2	0	2	10,840.00	21,680.00
(3)(7)	730-23.97	CANTILEVER SIGNAL SUPPORT (1 ARM @ 50')	EACH	1	0	1	12,910.00	12,910.00
(3)(7)	730-23.98	CANTILEVER SIGNAL SUPPORT (1 ARM @ 55')	EACH	1	0	1	14,920.00	14,920.00
(3)(7)	730-23.99	CANTILEVER SIGNAL SUPPORT (1 ARM @ 60')	EACH	1	0	1	17,340.00	17,340.00
(8)	730-26.02	PEDESTRIAN PUSHBUTTON WITH 15" SIGN	EACH	12	0	12	310.00	3,720.00
	730-26.05	COUNTDOWN PEDESTRIAN SIGNAL	EACH	12	0	12	630.00	7,560.00
(3)	920-10.04	PEDESTRIAN PUSHBUTTON POST (STANDARD)	EACH	1	0	1	840.00	840.00
(22, 24, 26)	920-12.04	ETHERNET/FIBER CONVERTER	EACH	6	0	6	970.00	5,820.00
(23)	920-10.06	TEMPORARY TRAFFIC SIGNAL POLES	L.S.	1	0	1	4,370.00	4,370.00
		SUB-TOTAL SIGNALIZATION QUANTITIES						491,170.50

SIGNAL/COMMUNICATION FOOTNOTES:

- (1) ITEM INCLUDES ALL TRAFFIC CONTROL FOR INSTALLATION OF TRAFFIC SIGNAL AS NOTED ON THE PLAN SHEETS AND AS REQUIRED TO COMPLETE THE PROJECT.

Bid Form

- (2) THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHANGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE FOR ITEM NO. 730-05.01 FOR PAYMENT BY THE CONTRACTOR. ITEM INCLUDES MILBANK ELECTRICAL SERVICE PEDESTAL MODEL NO. CP3B51110A22SL1, AS INDICATED ON THE PLANS. COORDINATE COLOR OF MILBANK WITH CITY PRIOR TO ORDERING.
- (3) ITEM INCLUDES SUPPORT POLE, INSTALLATION OF SUPPORT POLE AND FOUNDATION.
- (4) ITEM INCLUDES FURNISHING AND INSTALLING A OPTICOM; VEHICLE DETECTION MODEL 721 DETECTOR, EMERGENCY PREEMPT UNIT AND ALL ANCILARY WIRING AND SENSORS NEEDED TO PROVIDE EMERGENCY VEHILCE PREEMTION AS INDICATED ON THE PLANS.
- (5) ITEM INCLUDES FURNISHING AND INSTALLING ALL WIRING AND SENSORS NEEDED TO PROVIDE OPTOCOM VEHICLE DETECTION (RADIO/GPS ACTIVATED PRIORITY CONTROL) MODEL 764 PHASE SELECTOR, MODEL 1012 GPS RADIO UNIT, MODEL 1050 GPS RADIO ANTENNA. MODEL 768 AUXILARY INTERFACE PANEL, MODEL 1050 GPS INTERFACE PANEL, MODEL 768 AUXILARY INTERFACE PANEL, MODEL 1050 GPS INSTALLATION CABLE. MODEL 1040 GPS/INFRARED CARD RACDK, MODEL 138 DETECTOR CABLE, AND MODEL 711 EXTERNAL DETECTORS. AT EACH INTERSECTION, TO BE MEASURED AND PAID PER INTERSECTION. ITEM INCLUDES ALL MATERIALS REQUIRED TO IMPLEMENT EMERGENCY OPERATIONS CONTROL PER CITY OF FRANKLIN STANDARDS. COORDINATE WITH SIGNAL LAYOUT SHEET FOR DETECTOR POSITIONS AND PHASE SELECTOR ASSIGNMENTS. DETECTOR CABLE MEASURED AND PAID FOR UNDER SEPARATE ITEM 730-08.10. APPROXIMATE REQUIRED MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, ONE (1) EACH OF PHASE SELECTOR, RACK AND POWER SUPPLY, AND TWO (2) EACH OF EXTERNAL DETECTORS.
- (6) ITEM INCLUDES MOUNTING OF SIGN OVERHEAD ON MAST ARM. OVERHEAD SIGNS TO BE MOUNTED USING CABLE CLAMPS. SCREWING SIGNS TO MAST ARMS WILL NOT BE ACCEPTABLE.
- (7) ITEM TO INCLUDE VIBRATION DAMPENING DEVICE PER TDOT STD DWG. T-SG-9.
- (8) ITEM INCLUDES FURNISHING AND INSTALLING PEDESTRIAN PUSHBUTTONS AND SIGNS.
- (9) ITEM INCLUDES THE REMOVAL OF SIGNAL EQUIPMENT AT THE INTERSECTIONS OF HILLSBORO ROAD AND JOEL CHEEK, HILLSBORO ROAD AND CLAUDE YATES, AND SCHOOL FLASHERS AS INDICATED ON PLANS.
- (10) OVERHEAD STREET NAME SIGNS TO BE INTERNALLY ILLUMINATED STREET NAME BLACES WITH 3M DIAMOND GRADE REFELECTIVE SHEETING.
- (11) TO BE OPTICOM DETECTOR CABLE MODEL 138.
- (12) SIEMENS; EAGLE ELS1014 SIZE "P-UPS" BASE MOUNTED CABINET WITH INTERGRATED UPS COMPARTMENT; EAGLE LOAD BAYS NEMA TS-1, TF4008/TF4016 SERIES, SHALL BE PER GENERAL NOTE 5B, SHEET 18F. A TYPICAL P CABINET WITH THE UPS HOUSING. UPS WILL BE INCLUDED.
- (13) CABINET TO BE PAINTED FRANKLIN GREEN..
- (14) INCLUDES POLE, BASE, FOOTINGS, WIRING, INSTALLATION, AND ALL COMPONENTS NECESSARY FOR A FULLY OPERATIONAL SCHOOL ZONE FLASHING WARNING BEACON.
- (15) THE CONTRACTOR IS TO INSTALL "FIELD HUB SWITCH" AS SUPPLIED BY THE CITY OF FRANKLIN..
- (16) INCLUDES CCTV POLE, FOUNDATION, LOWERING DEVICE AND 4'X4' CONCRETE PAD LOCATED BELOW THE FRONT OF THE POLE MOUNTED CABINET. COORDINATE POLE COLOR WITH CITY PRIOR TO ORDERING.
- (17) VICON DOME CAMERA MODEL # SVFT-PR36; WALL MOUNT PRESSURIZED HOUSING MODEL SVFT-PR-WM.

Bid Form

- (18) TREEHAVEN; IP FIELD BOX RACK MOUNT WITH REMOTE DIAGNOSTIC, RVSFB120IPR. DROP CABLE AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SHALL BE INCLUDED WITH EACH CABINET. COORDINATE COLOR OF CABINET WITH CITY PRIOR TO ORDERING.
- (19) THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE CCTV CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE FOR ITEM NO. 730-05.01 FOR PAYMENT BY THE CONTRACTOR. ITEM INCLUDES MILBANK ELECTRICAL SERVICE PEDESTAL MODEL NO. CP3B51110A22SL1, AS INDICATED ON THE PLANS. COORDINATE COLOR OF MILBANK WITH CITY PRIOR TO ORDERING.
- (20) INCLUDES MODIFICATIONS AND ADDITIONS TO HILLSBORO RD. AND MACK HATCHER PKWY. CONTROLLER AS NEEDED.
- (21) CITY OF FRANKLIN COMPATABLE FIBER CONNECTION PATCH CABLE AND DISTRIBUTION PANEL SHALL BE INSTALLED IN THE CABINET. EACH TO INCLUDE 50' OF SLACK.
- (22) ITEM TO BE AN ETHERNET / FIBER CONVERTER 4 PORT 10 / 100. BASE-TX PLUS APPROVED BY THE CITY OF FRANKLIN. ALSO TO INCLUDE A 12V 40VA TRANSFORMER APPROVED BY THE CITY OF FRANKLIN, WITH EACH CONVERTER. TO BE INSTALLED IN THE TRAFFIC SIGNAL CABINET AT HILLSBORO ROAD AND JOEL CHEEK BOULEVARD, HILLSBORO ROAD AND CLAUDE YATES DRIVE, AND HILLSBORO ROAD AND MACK HATCHER PARKWAY.
- (23) ITEM IS FOR TEMPORARY POLES TO BE INSTALLED DURING PHASE 2 OF ROADWAY TRAFFIC CONTROL. ITEM ALSO INCLUDES NECESSARY SPAN WIRE FOR TEMPORARY TRAFFIC SIGNAL CONDITION.
- (24) ITEM TO BE AN ETHERNET / FIBER CONVERTER 4 PORT 10 / 100 BASE-TX PLUS APPROVED BY THE CITY OF FRANKLIN. ALSO TO INCLUDE A 12V TRANSFORMER, APPROVED BY THE CITY OF FRANKLIN WITH EACH CONVERTER. TO BE INSTALLED IN CCTV CABINET.
- (25) FLASHER CONTROLLER TO BE NTCIP COMPLIANT IN ORDER TO PROVIDE THE COMPATABILITY OF BEING CONTROLLED AT THE CITY OF FRANKLIN TRAFFIC OPERATIONS CENTER.
- (26) ITEM TO BE AN ETHERNET / FIBER CONVERTER 4 PORT 10 / 100 BASE-TX PLUS APPROVED BY THE CITY OF FRANKLIN. ALSO TO INCLUDE A 12V 40VA TRANSFORMER, APPROVED BY THE CITY OF FRANKLIN WITH EACH CONVERTER. TO BE INSTALLED IN SCHOOL FLASHER CCTV CABINETS.
- (27) SIEMENS EAGLE M50 SERIES TRAFFIC CONTROLLER - EPAC3108M52/EPAC3608M52.

ESTIMATED STREETScape AND ELECTRICAL QUANTITIES							
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	TOTAL PRICE
(1)	202-01.57	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (MISCELLANEOUS SITE ITEMS REMOVAL)	LS	1	0	1	25,000.00
(1)	716-10.30	DETECTABLE WARNING MAT (ADA COMPLIANT DETECTABLE WARNING MAT ON 8" THICK CONCRETE BASE)	SF	140	0	140	9,100.00
(1)	701-01.02	Concrete Sidewalk (6")	SF	10,157	12,868	23,025	138,150.00
(1)	701-01.10	Concrete Sidewalk (8")	SF	2,378	4,390	6,768	50,760.00

Bid Form

ESTIMATED STREETScape AND ELECTRICAL QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
(1)	713-16.22	SIGNS (STREETSCAPE ADD-ONS TO ITEMS 713-11.02 through 713-13.03)	LS	1	0	1	4,000.00	4,000.00	
(1)	713-16.21	SIGNS (GATEWAY SIGNS)	LS	1	0	1	160,000.00	160,000.00	
(1)	713-16.51	REMOVE AND REPLACE SIGN (RELOCATION OF SIGNS AT REBEL MEADOWS; APPROX. STATIONS 256+44 AND 256+72)	LS	1	0	1	18,000.00	18,000.00	
(1)	713-16.52	REMOVE AND REPLACE SIGN (RELOCATION OF SIGN AT CHESTNUT BEND; APPROX. STA. 246+90)	LS	1	0	1	18,000.00	18,000.00	
(1)	713-16.53	NEW SIGN (AT ORLEANS ESTATES; APPROX. STATION 246+95)	LS	1	0	1	29,000.00	29,000.00	
(1),(3)	721-01.04	IRRIGATION SYSTEM	LS	1	0	1	9,000.00	9,000.00	
(1)	795-09.01	3/4" WATER SERVICE METER ASSEMBLY (ALLOWANCE, INCLUDING \$3,490 FOR CITY IRRIGATION WATER METER FEES)	EA	1	0	1	\$10,000.00	\$10,000.00	
(1)	203-04.01	PLACING AND SPREADING SOIL FOR LANDSCAPING (PLANTING SOIL)	CY	146	0	146	60.00	8,760.00	
(1)	802-01.10	TREE (ACER RUBRUM 'RED SUNSET')	EA	21	0	21	370.00	7,770.00	
(1)	802-01.11	TREE (ACER SACCHARUM 'LEGACY')	EA	36	0	36	370.00	13,320.00	
(1)	802-01.12	TREE (NYSSA SYLVATICA)	EA	15	0	15	720.00	10,800.00	
(1)	802-01.13	TREE (QUERCUS PHELLOS)	EA	49	0	49	390.00	19,110.00	
(1)	802-01.14	TREE (ULMUS PARVIFOLIA 'ALLEE')	EA	11	0	11	370.00	4,070.00	
(1)	802-01.15	TREE (ZELKOVA SERRATA 'VILLAGE GREEN')	EA	18	0	18	400.00	7,200.00	
(1)	802-01.16	TREE (PINUS STROBUS)	EA	18	0	18	230.00	4,140.00	
(1)	802-03.14	SHRUB (ITEA VIRGINICA 'LITTLE HENRY')	EA	273	0	273	38.00	10,374.00	
(1)	802-03.15	SRUB (ROSA 'KNOCKOUT')	EA	31	0	31	37.00	1,147.00	
(1)	802-04.92	GROUND COVER (HEMEROCALLIS 'FRANKLY SCARLET')	EA	51	0	51	10.00	510.00	
(1)	802-04.93	GROUND COVER (HEMEROCALLIS 'LEEBA ORANGE CRUSH')	EA	626	0	626	13.00	8,138.00	
(1)	802-04.94	GROUND COVER (HEMEROCALLIS 'STAR STRUCK')	EA	585	0	585	10.00	5,850.00	
(1)	802-04.95	GROUND COVER (LIRIOPE MUSCARI 'BIG BLUE')	EA	599	0	599	7.00	4,193.00	
(1)	802-07.01	FLOWER (NARCISSUS 'CARLTON')	EA	1,005	0	1,005	1.00	1,005.00	

Bid Form

ESTIMATED STREETScape AND ELECTRICAL QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
(1)	802-07.02	FLOWER (NARCISSUS 'STAINLESS')	EA	800	0	800	1.00	800.00	
(2)	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	LF	5,208	3,221	8,429	3.80	32,030.20	
(2)	714-03.02	DIRECT BURIAL CONDUIT (3" PVC, SCHEDULE 40)	LF	5,619	3,017	8,636	4.60	39,725.60	
(2)	714-03.04	DIRECT BURIAL CONDUIT (3/4" PVC, SCHEDULE 40)	LF	233	20	253	3.20	809.60	
(2)	714-03.15	TRENCH AND BACKFILL IN STREET	LF	431	140	571	45.00	25,695.00	
(2)	714-03.16	TRENCH AND BACKFILL IN SIDEWALK	LF	5,025	2,944	7,969	7.00	55,783.00	
(2)	714-03.17	TRENCH AND BACKFILL IN ASPHALT AND LAWN AREAS WITH REPAIR	LF	268	58	326	45.00	14,670.00	
(2)	714-04.05	INNERDUCT, 1" CORRUGATED HDPE WITH PULL STRING	LF	11,776	6,004	17,780	1.10	19,558.00	
(2)	714-05.09	PULLBOX, 24"L X 13"W X 18" D, ELECTRIC LOGO	EA	1	1	2	470.00	940.00	
(2)	714-05.10	JUNCTION BOX, 6" X 6" X 6" DEEP	EA	3	1	4	700.00	2,800.00	
(2)	714-05.12	FIBER OPTIC PULLBOX TYPE A, 36"L X 26"W X 32" D, COFF/TOC LOGO	EA	5	3	8	1,480.00	11,840.00	
(2)	714-05.13	FIBER OPTIC PULLBOX TYPE B, 49"L X 32"W X 36" D, COFF/TOC LOGO	EA	3	0	3	1,630.00	4,890.00	
(2)	714-05.14	TRAFFIC SIGNAL MANHOLE, 4'-0" SQUARE X 4'-0" DEEP	EA	1	0	1	7,880.00	7,880.00	
(2)	714-06.02	CABLE (1/C # 12 AWG)	LF	36	60	96	0.95	91.20	
(2)	714-06.03	CABLE (1/C # 10 AWG)	LF	3,725	114	3,839	1.00	3,839.00	
(2)	714-06.04	CABLE (1/C # 8 AWG)	LF	14,227	9,246	23,473	1.20	28,167.60	
(2)	714-06.06	CABLE (1/C #4 AWG)	LF	11,540	6,838	18,378	1.70	31,242.60	
(2)	714-06.08	CABLE (1/C #3/0 AWG)	LF	413	45	458	4.50	2,061.00	
(2)	714-06.09	TRACER WIRE, #14 AWG SOLID	LF	5,483	3,002	8,485	0.75	6,363.75	
(2),(4)	714-08.09	LIGHT POLE MATERIAL ONLY, FIXTURE TYPE A	EA	36	19	55	8,740.00	480,700.00	
(2),(5)	714-08.10	LIGHT POLE MATERIAL ONLY, FIXTURE TYPE B	EA	2	1	3	8,780.00	26,340.00	
(2)	714-08.14	175 WATT PULSE START METAL HALIDE SPARE LAMP	EA	10	0	10	34.50	345.00	
(2)	714-08.15	175 WATT PULSE START METAL HALIDE SPARE BALLAST	EA	10	0	10	160.00	1,600.00	
(2)	714-08.20	LIGHT POLE FOUNDATION, FIXTURE	EA	38	20	58	1,700.00	98,600.00	

Bid Form

ESTIMATED STREETSCAPE AND ELECTRICAL QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
		TYPES A AND B, (INCLUDES 12"X12"X18" PULL BOX)							
(2)	714-08.21	LIGHT POLE INSTALLATION, FIXTURE TYPES A AND B	EA	38	20	58	800.00	46,400.00	
(2)	714-09.09	GRADE LEVEL SIGN LIGHTING FIXTURE	EA	2	2	4	1,210.00	4,840.00	
(2), (6)	714-09.10	GRADE LEVEL ENTRANCE WALL LIGHTING FIXTURE	EA	8	0	8	1,210.00	9,680.00	
(2)	714-12.09	LIGHTING CONTROL PANEL, 200 AMP	EA	2	1	3	13,610.00	40,830.00	
(2)	714-25.22	CONDUIT RISER POLE STUB-UP, COFF/TOC	EA	1	0	1	190.00	# 190.00	
(2)	714-25.30	ELECTRICAL SIGN SERVICE DEMOLITION	EA	0	1	1	350.00	350.00	
(2)	790-42.08	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	LF	0	25,088	25,088	2.60	65,228.80	
(2)	790-42.09	DIRECT BURIAL CONDUIT (3" PVC, SCHEDULE 40)	LF	0	21,717	21,717	3.40	73,837.80	
(2)	790-42.10	DIRECT BURIAL CONDUIT (4" PVC, SCHEDULE 40)	LF	0	17,210	17,210	4.10	70,561.00	
(2)	790-42.13	ENCASED CONDUIT 2-4" PVC SCHEDULE 40	LF	0	1,906	1,906	33.00	62,898.00	
(2)	790-42.14	ENCASED CONDUIT 3-4" PVC SCHEDULE 40	LF	0	137	137	35.50	4,863.50	
(2)	790-42.15	ENCASED CONDUIT 4-4" PVC SCHEDULE 40	LF	0	230	230	38.00	8,740.00	
(2)	790-42.16	ENCASED CONDUIT 5-4" PVC SCHEDULE 40	LF	0	92	92	41.00	3,772.00	
(2)	790-42.18	ENCASED CONDUIT 2-6" PVC SCHEDULE 40	LF	0	491	491	41.00	20,131.00	
(2)	790-42.19	ENCASED CONDUIT 4-6" PVC SCHEDULE 40	LF	0	3,976	3,976	57.00	226,632.00	
(2)	790-42.21	MTEMC RISER POLE CONDUIT 1-2" (MTEMC DWG RP-1)	LF	0	60	60	17.00	1,020.00	
(2)	790-42.22	MTEMC RISER POLE CONDUIT 1-3" (MTEMC DWG RP-1)	LF	0	67	67	23.00	1,541.00	
(2)	790-42.23	MTEMC RISER POLE CONDUIT 1-4" (MTEMC DWG RP-1)	LF	0	173	173	26.00	4,498.00	
(2)	790-42.24	MTEMC ENCASED PRIMARY RISER POLE CONDUIT 2-6" (MTEMC DWG RP-3)	LF	0	221	221	82.00	18,122.00	

Bid Form

ESTIMATED STREETScape AND ELECTRICAL QUANTITIES							
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON- PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	TOTAL PRICE
(2)	790-42.27	RISER POLE CONDUIT STUB-UP - 2" CONDUIT	EA	0	8	8	1,680.00
(2)	790-42.28	RISER POLE CONDUIT STUB-UP - 3" CONDUIT	EA	0	1	1	220.00
(2)	790-42.29	RISER POLE CONDUIT STUB-UP - 4" CONDUIT	EA	0	4	4	1,080.00
(2)	790-42.30	CATV PEDESTAL MAKE READY	EA	0	40	40	14,800.00
(2)	790-42.31	TELEPHONE PEDESTAL MAKE READY	EA	0	46	46	17,020.00
(2)	790-42.41	TRENCH TYPE A	LF	0	3,973	3,973	242,353.00
(2)	790-42.42	TRENCH TYPE B	LF	0	833	833	47,481.00
(2)	790-42.43	TRENCH TYPE C	LF	0	985	985	40,385.00
(2)	790-42.44	TRENCH TYPE D	LF	0	8,789	8,789	408,688.50
(2)	790-42.45	TRENCH TYPE S	LF	0	4,380	4,380	54,750.00
(2)	790-43.46	PULL BOX, 36"L X 24"W X 18" D, MTEMC-ELECTRIC LOGO	EA	0	19	19	27,740.00
(2)	790-43.47	PULL BOX, 48"L X 30"W X 36" D, MTEMC-ELECTRIC LOGO	EA	0	5	5	8,750.00
(2)	790-43.50	PULL BOX, 48"L X 30"W X 18" D, CATV - COMCAST LOGO	EA	0	15	15	26,250.00
(2)	790-43.51	PULL BOX, 60"L X 36"W X 18" D, TELEPHONE - AT&T LOGO	EA	0	4	4	7,000.00
(2)	790-43.52	PRECAST CONCRETE MANHOLE, 12'-0" L X 6'-0"W X 7'-1" H	EA	0	12	12	190,440.00
(2)	790-50.03	BOX PAD FOUNDATION "BP-1" FOR MTEMC SINGLE-PHASE TRANSFORMER	EA	0	27	27	34,020.00
(2)	790-51.06	PRECAST CONCRETE "PAD NO. 1" FOR MTEMC THREE-PHASE TRANSFORMER	EA	0	1	1	2,220.00
(2)	790-51.07	PRECAST CONCRETE BOX PAD FOR MTEMC THREE PHASE "SECTOR" SWITCH	EA	0	10	10	25,200.00
(2)	790-51.08	PRECAST CONCRETE "PAD NO. 10" FOR MTEMC "VISTA" SWITCH	EA	0	3	3	7,920.00
(2)	730-05.04	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 1)	EA	0	5	5	11,950.00
(2)	730-05.05	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 2)	EA	0	4	4	9,560.00
(2)	730-05.06	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 3)	EA	0	4	4	9,560.00

Bid Form

ESTIMATED STREETScape AND ELECTRICAL QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
(2)	730-05.07	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 4)	EA	0	1	1	2,540.00	2,540.00	
(2)	730-05.08	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 5)	EA	0	6	6	2,380.00	14,280.00	
(2)	730-05.09	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 6)	EA	0	2	2	2,390.00	4,780.00	
(2)	730-05.10	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 7)	EA	0	1	1	3,080.00	3,080.00	
(2)	730-05.11	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 8)	EA	0	3	3	3,340.00	10,020.00	
(2)	730-05.12	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 9)	EA	0	1	1	2,830.00	2,830.00	
(2)	730-05.13	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 10)	EA	0	1	1	2,390.00	2,390.00	
(2)	730-05.14	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 11)	EA	0	1	1	7,500.00	7,500.00	
(2)	730-05.15	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 12)	EA	0	1	1	3,510.00	3,510.00	
(2)	730-05.16	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 13)	EA	0	1	1	3,100.00	3,100.00	
(2)	730-05.17	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 14)	EA	0	1	1	2,360.00	2,360.00	
(2)	730-05.18	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 15)	EA	0	1	1	1,950.00	1,950.00	
(2)	730-05.19	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 16)	EA	0	1	1	2,470.00	2,470.00	
(2)	730-05.20	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 17)	EA	0	1	1	2,400.00	2,400.00	
(2)	730-05.21	MODIFY EX. ELEC. CONNECTION	EA	0	1	1	3,620.00	3,620.00	

Bid Form

ESTIMATED STREETScape AND ELECTRICAL QUANTITIES									
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE	
		(ELECTRICAL SERVICE REVISION TYPE 18)							
(2)	730-05.22	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 19)	EA	0	1	1	3,860.00	3,860.00	
(2)	730-05.23	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 20)	EA	0	1	1	4,160.00	4,160.00	
(2)	730-05.24	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 21)	EA	0	1	1	2,680.00	2,680.00	
(2)	730-05.25	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 22)	EA	0	1	1	7,730.00	7,730.00	
		SUB-TOTAL STREETScape AND ELECTRICAL QUANTITIES						3,412,631.15	

STREETScape AND ELECTRICAL FOOTNOTES

FOOTNOTE (1)

**MEASUREMENT AND PAYMENT FOR ENHANCEMENT ITEMS
(ITEMS 202-01.57, 716-10.30, 701-01.02, 701-01.10, 713-16.21, 713-16.22,
713-16.51, 713-16.52, 713-16.53, 721-01.04, 795-09.01, 203-04.01, 802-01.10 thru 802-07.02)**

PART I GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Specification sections, apply to work of this section.
- B. TDOT Standard Specifications for Road and Bridge Construction, Section 109 – Measurement and Payment shall apply to work of this section.
 - I. Where discrepancies may occur between this section and TDOT Standard Specifications for Road and Bridge Construction, this section shall govern.

Bid Form

1.02 SCOPE

- A. This section includes measurement and payment criteria applicable to the Work performed under a unit price payment method.
- B. Defect assessment and non-payment for rejected work.

1.03 AUTHORITY

- A. The Engineer will take all measurements and compute quantities accordingly.
- B. The Contractor shall assist by providing necessary equipment, workers and survey personnel as required.

1.04 UNIT QUANTITIES SPECIFIED

- A. Quantities and measurements indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements supplied or placed in the Work and verified by the Engineer shall determine payment.
- B. If the actual Work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit prices contracted.
- C. Items, in their entire quantity, may be deleted from the contract with no claims for additional compensation from the Contractor.

1.05 MEASUREMENT OF QUANTITIES

- A. Measurement Devices:
 - 1. Weigh Scales: Inspected, tested and certified by the applicable Weights and Measures Department within the past year.
 - 2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
 - 3. Metering Devices: Inspected, tested and certified by the applicable department within the past year.
- B. Measurement by Volume: Measured by cubic dimension using in-place mean length, width and height or thickness.
- C. Measurement by Area: Measured by square dimension using mean length and width or radius.
- D. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord. Curb shall be measured per linear foot of curb face.
- E. Stipulated Contract Price Measurement: Items measured by weight, volume, area or linear means or combination, as appropriate, as a completed item or unit of the Work.

1.06 PAYMENT

Bid Form

- A. Payment includes full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.
- B. Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the Engineer multiplied by the unit price for Work which is incorporated in or made necessary by the Work.

1.07 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Engineer, it is not practical to remove and replace the Work, the Engineer will direct one of the following remedies:
 - 1. The defective Work may remain, but the unit price will be adjusted to a new price at the discretion of the Engineer.
 - 2. The defective Work will be partially repaired to the instructions of the Engineer, and the unit price will be adjusted to a new price at the discretion of the Engineer.
- C. The individual specification sections may modify these options or may identify a specific formula or percentage price reduction.
- D. The authority of the Engineer to assess the defect and identify payment adjustment is final.

1.08 NON-PAYMENT FOR REJECTED PRODUCTS

- A. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines and levels of the required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling and disposing of rejected products.

PART 2 PRODUCTS/MATERIALS

Not used.

PART 3 EXECUTION

Not used.

PART 4 PAY ITEMS

Bid Form

4.01 NON-STANDARD ITEMS

DEMOLITION AND REMOVAL

- A. Item 202-01.57 REMOVAL OF STRUCTURES AND OBSTRUCTIONS (MISCELLANEOUS SITE ITEMS REMOVAL): Payment on a lump sum (L-S) basis, complete, shall be made at the contract price for all miscellaneous site items removed not covered under other demolition and removal pay items, including steps; wheel stops, miscellaneous pavements; miscellaneous signage (including electrical service); trees up to 3" caliper; any miscellaneous shrubs and other plantings as required to install new plantings and other improvements; lawn and stumps not removed by others; planters not designated to remain (including conc. edging, railroad tie/wood edging, mulch and soil as required); foundations (including pole foundations) not removed by others; removal of pull boxes not removed by others; all backfill of voids from demolition operations, unless otherwise noted, shall be with TDOT Class A Aggregate, Grading D. Miscellaneous Site Items Removal shall be in accordance with the Contract Documents and TDOT Section 202.

PAVERS

- B. Item 716-10.30 DETECTABLE WARNING MAT (ADA COMPLIANT DETECTABLE WARNING PANELS ON 8" THICK CONCRETE BASE): Payment for accepted quantities, complete in place, shall be made at the contract price per square foot (SF) of ADA compliant detectable warning panels placed on a 8" thick concrete base, in accordance with the Contract Documents, including concrete base, excavation, embankment, sub-grade compaction, aggregate subbase, ramps, and adjusting existing manholes, valves, curb boxes, etc. to proposed grade.

PORTLAND CEMENT CONCRETE PAVING.

- C. Item 701-01.02 CONCRETE SIDEWALK (6"): Payment for accepted quantities, complete in place, shall be made at the contract price per square foot (SF) of 6" thick concrete sidewalk in accordance with the Contract Documents and TDOT Section 701, including excavation, embankment, sub-grade compaction, aggregate subbase, joints, concrete cure, sign sleeves, ramps, pinning and resetting existing steps (if required), and adjusting existing manholes, valves, curb stops, etc. to proposed grade. Transition from 6" to 8" thickness shall be paid for as 8" thick concrete.
- D. Item 701-01.10 CONCRETE SIDEWALK (8"): Payment for accepted quantities, complete in place, shall be made at the contract price per square foot (SF) of 8" thick concrete sidewalk in accordance with the Contract Documents and TDOT Section 701, including excavation, embankment, sub-grade compaction, aggregate subbase, joints, concrete cure, sign sleeves, handicap ramps, driveway aprons, pinning and resetting existing steps (if required), and adjusting existing manholes, valves, curb stops, etc. to proposed grade.
- MISCELLANEOUS SITE IMPROVEMENTS
- E. Item 713-16.22 SIGNS (STREETSCAPE ADD-ONS TO ITEMS 713-11.02 through 713-13.03): Payment on a lump sum (L-S) basis, complete in place, shall be made at the contract price for painting all traffic sign posts and backs of all sign panels to match Franklin Green, decorative frames around designated sign panels (in accordance with detail 1/D-4), and bronze City logo on designated posts (in accordance with detail 1/D-4). Furnishing and installing sign posts and sign panels is not included in this item.

Bid Form

- F. Item 713-16.21 SIGNS (GATEWAY SIGNS): Payment on a lump sum (LS) basis, complete in place, shall be made at the contract price for the Gateway Sign features located at the intersection of Hillsboro Rd. and Mack Hatcher Parkway. Two Gateway Sign features are included as part of this pay item; one located on the east side of Hillsboro Rd. and one located on the west side of Hillsboro Rd., in accordance with the Contract Documents, including sign walls, wing walls, columns, excavation, embankment, sub-grade compaction, footings, wall cavity, reinforcement, stone veneer, stone caps, stone finials, mortar, cast letters and numbers, and cast bronze city seals.
- G. Item 713-16.51 REMOVE AND REPLACE SIGN (RELOCATION OF SIGNS AT REBEL MEADOWS: APPROX. STATIONS 256+44 AND 256+72): Payment on a lump sum (LS) basis, complete in place, shall be made at the contract for relocation of the existing brick entrance sign walls (qty. 2 signs) to the Rebel Meadows development in accordance with the Contract Documents, including excavation, embankment, and sub-grade compaction. Contractor has the option to reconstruct the sign walls instead of moving, or if they are not feasible to move. If walls are rebuilt, pay item shall include excavation, embankment, sub-grade compaction, footings, wall cavity, reinforcement, new or reused face brick and brick cap, mortar, and relocation of existing metal picket rails with sign panels. If the sign walls are rebuilt, construction in accordance with existing design and construction is included as part of this pay item. This pay item also includes protection of all materials in a secure location with construction fencing.
- H. Item 713-16.52 REMOVE AND REPLACE SIGN (RELOCATION OF SIGN AT CHESTNUT BEND: APPROX. STATION 246+90): Payment on a lump sum (LS) basis, complete in place, shall be made at the contract for relocation of the existing stone entrance sign wall to the Chestnut Bend development in accordance with the Contract Documents, including excavation, embankment, and sub-grade compaction. Contractor has the option to reconstruct the sign wall instead of moving, or if it is not feasible to move. If sign wall is rebuilt, pay item shall include excavation, embankment, sub-grade compaction, footings, wall cavity, reinforcement, new or reused stone veneer and cap, mortar, and relocation of inset existing stone sign panels. If the signs are rebuilt, construction in accordance with existing design and construction is included as part of this pay item. This pay item also includes protection of all materials in a secure location with construction fencing.
- I. Item 713-16.53 NEW SIGN (AT ORLEANS ESTATES: APPROX. STATION 246+95): Payment on a lump sum (LS) basis, complete in place, shall be made at the contract price for demolition and removal of the existing masonry sign and guard house at this location, and construction of a new entrance sign wall to the Orleans Estates development in accordance with the Contract Documents, including sign wall, columns, excavation, embankment, sub-grade compaction, footings, wall cavity, reinforcement, stone veneer, stone caps, mortar, and engraved letters/graphics.

IRRIGATION

- J. Item 721-01.04 IRRIGATION SYSTEM: Payment on a lump sum (LS) basis, complete in place, shall be made at the contract price for installation of the irrigation system in accordance with the Contract Documents and the City of Franklin, Tennessee Franklin Water & Wastewater Department Standard Water & Wastewater Guidelines Specifications & Details, August 2001. This item includes furnishing and installation of the 2" water service line, water meter setting, water meter box, backflow preventer with enclosure and connection to the existing 18" water main.
- K. Item 795-09.01 3/4" WATER SERVICE METER ASSEMBLY (ALLOWANCE, INCLUDING \$3,490 FOR CITY IRRIGATION WATER METER FEES): Payment shall be made at the City of Franklin's invoice price for each (EA) irrigation meter furnished by the City of Franklin, including \$3,490 for City Irrigation Water Meter Fees. Payment for furnishing, installation, water meter setting, and compensation for all direct and indirect costs, including overhead and profit, shall be made under Item 721-01.04 Irrigation System.

LANDSCAPE WORK

Bid Form

- L. Item 203-04.01 PLACING AND SPREADING SOIL FOR LANDSCAPING (PLANTING SOIL): Payment for accepted quantities, complete in place, shall be made at the contract price per cubic yard (CY) of planting soil provided, in accordance with the Contract Documents, including excavation as required to ensure a minimum depth of 18" of planting soil. This item shall be used for planting areas that are created in areas where pavement is removed.
- M. Item 802-01.10 through 802-07.02 (TREES, SHRUBS, GROUND COVERS, FLOWERS): Payment for accepted quantities, complete in place, shall be made at the contract price for each (EA) plant provided, in accordance with the Contract Documents. The following items are incidental to the cost of each plant: excavation and topsoil fill if required to meet proposed elevations for beds in existing soil; preparation of planting beds in existing soil (including compost/organic matter); herbicides; fertilizer; soil amendments; mulch; anti-desiccant; watering; stakes, guy wire, hose, flags, tree root barriers; one-year maintenance; one-year guarantee and replacement; all other requirements per plans and specifications.

PAINTING

Work under this section is incidental to work covered under other sections of these specifications and shall be paid as work incidental to those items.

END OF SECTION

FOOTNOTE (2)

**MEASUREMENT AND PAYMENT
SECTION 714
(STREET LIGHTING)**

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Specification sections, apply to work of this section.
- B. TDOT Standard Specifications for Road and Bridge Construction, Section 109 – Measurement and Payment shall apply to work of this section.
 - 1. Where discrepancies may occur between this section (01025) and TDOT Standard Specifications for Road and Bridge Construction, this section (01025) shall govern.

1.02 SCOPE

- A. This section includes measurement and payment criteria applicable to the Work performed under a unit price payment method.
- B. Defect assessment and non-payment for rejected work.

1.03 AUTHORITY

- A. The Engineer will take all measurements and compute quantities accordingly.
- B. The Contractor shall assist by providing necessary equipment, workers and survey personnel as required.

Bid Form

- 1.04 UNIT QUANTITIES SPECIFIED
- Quantities and measurements indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements supplied or placed in the Work and verified by the Engineer shall determine payment.
- A. If the actual Work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit prices contracted.
- B. Items, in their entire quantity, may be deleted from the contract with no claims for additional compensation from the Contractor.
- C.
- 1.05 MEASUREMENT OF QUANTITIES
- Measurement Devices:
- A. 1. Weigh Scales: Inspected, tested and certified by the applicable Weights and Measures Department within the past year.
2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
3. Metering Devices: Inspected, tested and certified by the applicable department within the past year.
- B. Measurement by Volume: Measured by cubic dimension using in-place mean length, width and height or thickness.
- C. Measurement by Area: Measured by square dimension using mean length and width or radius.
- D. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord. Curb shall be measured per linear foot of curb face.
- E. Stipulated Contract Price Measurement: Items measured by weight, volume, area or linear means or combination, as appropriate, as a completed item or unit of the Work.
- 1.06 PAYMENT
- A. Payment includes full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.
- B. Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the Engineer multiplied by the unit price for Work which is incorporated in or made necessary by the Work.
- 1.07 DEFECT ASSESSMENT
- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Engineer, it is not practical to remove and replace the Work, the Engineer will direct one of the following remedies:
1. The defective Work may remain, but the unit price will be adjusted to a new price at the discretion of the Engineer.
2. The defective Work will be partially repaired to the instructions of the Engineer, and the unit price will be adjusted to a new price at the discretion of the Engineer.
- C. The individual specification sections may modify these options or may identify a specific formula or percentage price reduction.
- D. The authority of the Engineer to assess the defect and identify payment adjustment is final.
- 1.08 NON-PAYMENT FOR REJECTED PRODUCTS
- A. Payment will not be made for any of the following:

Bid Form

1. Products wasted or disposed of in a manner that is not acceptable.
2. Products determined as unacceptable before or after placement.
3. Products not completely unloaded from the transporting vehicle.
4. Products placed beyond the lines and levels of the required Work.
5. Products remaining on hand after completion of the Work.
6. Loading, hauling and disposing of rejected products.

PART 2 PRODUCTS/MATERIALS

Not used.

PART 3 EXECUTION

Not used.

**PART 4 PAY ITEMS
4.01 NON-STANDARD ITEMS**

STREETLIGHTING (SECTION 714)

- A. Item 714-03.01, Direct Burial Conduit (2" PVC, Schedule 40): This item is for furnishing and installing direct burial conduit. Note: Trench and backfill are covered in separate pay items listed below. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of 2" PVC Schedule 40 conduit furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including conduit, bends, stub-ups from below grade, couplings, and pull rope.
- B. Item 714-03.02, Direct Burial Conduit (3" PVC, Schedule 40): This item is for furnishing and installing direct burial conduit. Note: Trench and backfill are covered in separate pay items listed below. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of 3" PVC Schedule 40 conduit furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including conduit, bends, stub-ups from below grade, couplings, and pull rope.
- C. Item 714-03.04, Direct Burial Conduit (3/4" PVC, Schedule 40): This item is for furnishing and installing direct burial conduit. Note: Trench and backfill are covered in separate pay items listed below. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of 3/4" PVC Schedule 40 conduit furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including conduit, bends, stub-ups from below grade, couplings, and pull rope.
- D. Item 714-03.15, Trench and Backfill in Street: This pay item shall be used for trench excavation located within areas of new pavement, or within the limits of pavement milling and resurfacing. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of trench furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including trench excavation, sheeting (where required), backfill, disposal of excess or unsuitable material, warning tape, and temporary asphalt patch or surface repair.

Bid Form

- E. Item 714-03.16, Trench and Backfill in Sidewalk: This pay item shall be used for trench excavation located within areas of new sidewalk. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of trench furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including trench excavation, backfill, disposal of excess or unsuitable material, warning tape, and temporary patch or surface repair.
- F. Item 714-03.17, Trench and Backfill in Asphalt and Lawn Areas with Repair: This pay item shall be used for trench and backfill in asphalt and lawn areas located outside of the limits of new pavement, or outside of the limits of pavement milling and resurfacing, drives (including parking lots) and lawn areas. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of trench furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including trench excavation, sheeting (where required), backfill, disposal of excess or unsuitable material, warning tape, and final surface repair by the Electrical Contractor.
- G. Item 714-04.05, Innerduct, 1" Corrugated HDPE with Pull String: Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of 1" corrugated HDPE with pull string furnished and installed in conduit per the Drawings, including installation kit.
- H. Item 714-05.09, Pullbox, 24"L x 13"W x 18" D, Electric Logo: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) grade level flush pullbox furnished and installed in accordance with TDOT Section 714 and as modified by the plans and Section 16530 of these Specifications.
- I. Item 714-05.10, Junction Box, 6" x 6" x 6" Deep: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) grade level flush junction box furnished and installed.
- J. Item 714-05.12, Fiber Optic Pullbox, Type A, 36"L x 26"W x 32" D, COFF/TOC Logo: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) grade level flush pullbox furnished and installed in accordance with TDOT Section 730.12 and as modified by the plans and Specifications.
- K. Item 714-05.13, Fiber Optic Pullbox, Type B, 49"L x 32"W x 36" D, COFF/TOC Logo: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) grade level flush pullbox furnished and installed in accordance with TDOT Section 730.12 and as modified by the plans and Specifications.
- L. Item 714-06.02, Cable (1/C # 12 AWG): Payment shall be made on a linear foot (LF) basis, complete and in place for all required #12 AWG. 600V cabling furnished and installed in accordance with TDOT Section 714.07.
- M. Item 714-06.03, Cable (1/C #10 AWG): Payment shall be made on a linear foot (LF) basis, complete and in place for all required #10 AWG cabling furnished and installed in accordance with TDOT Section 714.
- N. Item 714-06.04, Cable (1/C #8 AWG): Payment shall be made on a linear foot (LF) basis, complete and in place for all required #8 AWG cabling furnished and installed in accordance with TDOT Section 714.
- O. Item 714-06.06, Cable (1/C #4 AWG): Payment shall be made on a linear foot (LF) basis, complete and in place for all required #4 AWG cabling furnished and installed in accordance with TDOT Section 714.
- P. Item 714-06.08, Cable (1/C # 3/0 AWG): Payment shall be made on a linear foot (LF) basis, complete and in place for all required # 3/0 AWG cabling furnished and installed in accordance with TDOT Section 714.
- Q. Item 714-06.09S Tracer Wire, #14 AWG Solid: Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of #14 AWG solid type THWN Tracer Wire furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications.

Bid Form

- R. Item 714-08.09, Light Pole Material Only, Fixture Type A: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) light pole, including anchor bolts, cast aluminum base, tapered fluted aluminum pole with curved upsweep arm and single luminaire as detailed on the drawings. (At the Owner's option, additional spare light poles may be purchased under this pay item.)
- S. Item 714-08.10, Light Pole Material Only, Fixture Type B: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) light pole, including anchor bolts, cast aluminum base, tapered fluted aluminum pole with curved upsweep arm, and single luminaire with photocell as detailed on the drawings. (At the Owner's option, additional spare light poles may be purchased under this pay item.)
- T. Item 714-08.14, 175 Watt Pulse Start Metal Halide Spare Lamp: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) spare 175 watt, pulse-start metal halide lamp furnished to the City. (At the Owner's option, additional spare lamps may be purchased under this pay item.)
- U. Item 714-08.15, 175 Watt Pulse Start Metal Halide Spare Ballast: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) spare 175 watt, pulse-start metal halide ballast furnished to the City. (At the Owner's option, additional spare lamps may be purchased under this pay item.)
- V. Item 714-08.20, Light Pole Foundation, Fixture Types A and B: Payment for accepted quantities, complete in place shall be made at the contract price for each (EA) concrete foundation, including grade level flush pullbox, detailed concrete base, ground rod, gravel and pole base conduit.
- W. Item 714-08.21, Light Pole Installation, Fixture Types A and B: Payment for accepted quantities, complete, shall be made at the contract price for installing each (EA) single luminaire light pole, including cast aluminum base, fluted aluminum pole, single luminaire, pole conductors, termination, fusing, grounding, and miscellaneous connection materials. Furnish and install lamp under this pay item.
- X. Item 714-09.09, Grade Level Sign Lighting Fixture: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) grade level sign lighting fixture assembly furnished and installed.
- Y. Item 714-09.10, Grade Level Entrance Wall Lighting Fixture: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) grade level entrance wall lighting fixture assembly furnished and installed.
- Z. Item 714-12.09, Lighting Control Panel, 200 Amp: Payment for accepted quantities shall be made at the contract price for each (EA) lighting control panel assembly furnished and installed in accordance with TDOT Section 714 and as modified by the plans and Section 16530 of these Specifications.
- AA. Item 714-25.22, Conduit Riser Pole Stub-up, COFF/TOC: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) COFF/TOC conduit riser pole stub-up, Schedule 40 conduit, PVC Schedule 40 sweeps, standoff bracket, and conduit caps as required per COFF/TOC requirements.
- BB. Item 714-25.30, Electrical Sign Service Demolition: Payment for accepted quantities shall be made for the demolition of each (EA) existing electrical sign service including disconnection and removal of branch circuit wiring at each existing sign to make ready and safe for sign removal by others.

END OF SECTION

**MEASUREMENT AND PAYMENT
SECTION 730-05 (ELECTRICAL SERVICE REVISIONS)
SECTION 790 (ELECTRICAL DISTRIBUTION)**

PART I GENERAL

1.01 RELATED DOCUMENTS

Bid Form

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Specification sections, apply to work of this section.
- B. TDOT Standard Specifications for Road and Bridge Construction, Section 109 – Measurement and Payment shall apply to work of this section.
- I. Where discrepancies may occur between this section (01025) and TDOT Standard Specifications for Road and Bridge Construction, this section (01025) shall govern.
- 1.02 SCOPE
- A. This section includes measurement and payment criteria applicable to the Work performed under a unit price payment method.
- B. Defect assessment and non-payment for rejected work.
- 1.03 AUTHORITY
- A. The Engineer will take all measurements and compute quantities accordingly.
- B. The Contractor shall assist by providing necessary equipment, workers and survey personnel as required.
- 1.04 UNIT QUANTITIES SPECIFIED
- A. Quantities and measurements indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements supplied or placed in the Work and verified by the Engineer shall determine payment.
- B. If the actual Work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit prices contracted.
- C. Items, in their entire quantity, may be deleted from the contract with no claims for additional compensation from the Contractor.
- 1.05 MEASUREMENT OF QUANTITIES
- A. Measurement Devices:
1. Weigh Scales: Inspected, tested and certified by the applicable Weights and Measures Department within the past year.
 2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
 3. Metering Devices: Inspected, tested and certified by the applicable department within the past year.
- B. Measurement by Volume: Measured by cubic dimension using in-place mean length, width and height or thickness.
- C. Measurement by Area: Measured by square dimension using mean length and width or radius.
- D. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord. Curb shall be measured per linear foot of curb face.
- E. Stipulated Contract Price Measurement: Items measured by weight, volume, area or linear means or combination, as appropriate, as a completed item or unit of the Work.
- 1.06 PAYMENT
- A. Payment includes full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.
- B. Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the Engineer multiplied by the unit price for Work which is incorporated in or made necessary by the Work.

Bid Form

1.07

DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Engineer, it is not practical to remove and replace the Work, the Engineer will direct one of the following remedies:
 - 1. The defective Work may remain, but the unit price will be adjusted to a new price at the discretion of the Engineer.
 - 2. The defective Work will be partially repaired to the instructions of the Engineer, and the unit price will be adjusted to a new price at the discretion of the Engineer.
- C. The individual specification sections may modify these options or may identify a specific formula or percentage price reduction.
- D. The authority of the Engineer to assess the defect and identify payment adjustment is final.

1.08

NON-PAYMENT FOR REJECTED PRODUCTS

Payment will not be made for any of the following:

- 1. Products wasted or disposed of in a manner that is not acceptable.
- 2. Products determined as unacceptable before or after placement.
- 3. Products not completely unloaded from the transporting vehicle.
- 4. Products placed beyond the lines and levels of the required Work.
- 5. Products remaining on hand after completion of the Work.
- 6. Loading, hauling and disposing of rejected products.

PART 2 PRODUCTS/MATERIALS

Refer to Specifications.

PART 3 EXECUTION

Refer to Specifications.

PART 4 PAY ITEMS

4.02 NON-STANDARD ITEMS

ELECTRICAL SERVICE REVISIONS (SECTION 730-05)

- A. 730-05.04 Modify Existing Electrical Connection (Electrical Service Revision Type 1): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new

Bid Form

- meter socket enclosure, 3" PVC Schedule 80 conduit and sweep, expansion coupling, grounding, termination of existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.
- B. 730-05.05 Modify Existing Electrical Connection (Electrical Service Revision Type 2): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 3" PVC Schedule 80 conduit and sweep, expansion coupling, grounding, termination of existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.
- C. 730-05.06 Modify Existing Electrical Connection (Electrical Service Revision Type 3): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 3" PVC Schedule 80 conduit and sweep, expansion coupling, grounding, termination of existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.
- D. 730-05.07 Modify Existing Electrical Connection (Electrical Service Revision Type 4): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 2" and 3" PVC Schedule 80 conduit, 3" PVC Schedule 80 sweep, expansion coupling, junction box, splices, #3/0 conductors, grounding, termination of existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.
- E. 730-05.08 Modify Existing Electrical Connection (Electrical Service Revision Type 5): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 3" PVC Schedule 80 conduit and sweep, expansion coupling, grounding, termination of existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.
- F. 730-05.09 Modify Existing Electrical Connection (Electrical Service Revision Type 6): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 3" PVC Schedule 80 conduit and sweep, expansion coupling, grounding, termination of existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.
- G. 730-05.10 Modify Existing Electrical Connection (Electrical Service Revision Type 7): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service; furnishing and installing new 3" PVC Schedule 80 conduit and sweep, expansion coupling, auxiliary gutter, building finish repair and connection and/or inspection fees.
- H. 730-05.11 Modify Existing Electrical Connection (Electrical Service Revision Type 8): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 3" PVC Schedule 80 conduit and sweep, expansion coupling, grounding, redirecting and terminating existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.
- I. 730-05.12 Modify Existing Electrical Connection (Electrical Service Revision Type 9): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 3" PVC Schedule 80 conduit and sweep, expansion coupling, grounding, termination of existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.

Bid Form

- J. 730-05.13 Modify Existing Electrical Connection (Electrical Service Revision Type 10): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 3" PVC Schedule 80 conduit and sweep, expansion coupling, grounding, termination of existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.
- K. 730-05.14 Modify Existing Electrical Connection (Electrical Service Revision Type 11): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosures, service disconnect switch and grounding; furnishing and installing new 2-gang meter socket enclosure with main breakers, disconnect switch, #2 and #3/0 conductors, 3" PVC Schedule 80 conduit and sweep, 2" and 1-1/2" PVC Schedule 40 conduit, expansion coupling, grounding, termination of conductors in new meter socket and at existing service equipment, building finish repair and connection and/or inspection fees.
- L. 730-05.15 Modify Existing Electrical Connection (Electrical Service Revision Type 12): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosures, service disconnect switch and grounding; furnishing and installing new meter socket enclosure, #10 and #3/0 conductors, 3" PVC Schedule 80 conduit and sweep, PVC Schedule 40 conduit, expansion coupling, grounding, termination of conductors in new meter socket and at existing equipment, building finish repair and connection and/or inspection fees.
- M. 730-05.16 Modify Existing Electrical Connection (Electrical Service Revision Type 13): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 2" and 3" PVC Schedule 80 conduit, 3" PVC Schedule 80 sweep, expansion coupling, #3/0 conductors, grounding, termination of new service conductors in new meter socket and existing service equipment, building finish repair and connection and/or inspection fees.
- N. 730-05.17 Modify Existing Electrical Connection (Electrical Service Revision Type 14): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service; furnishing and installing new 3" PVC Schedule 80 conduit and sweep, expansion coupling, auxiliary gutter, building finish repair and connection and/or inspection fees.
- O. 730-05.18 Modify Existing Electrical Connection (Electrical Service Revision Type 15): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service; furnishing and installing new 3" PVC Schedule 80 conduit and sweep, expansion coupling, auxiliary gutter, building finish repair and connection and/or inspection fees.
- P. 730-05.19 Modify Existing Electrical Connection (Electrical Service Revision Type 16): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 2" and 3" PVC Schedule 80 conduit, 3" PVC Schedule 80 sweep, expansion coupling, #3/0 conductors, grounding, termination of new service conductors in new meter socket and existing service equipment, building finish repair and connection and/or inspection fees.
- Q. 730-05.20 Modify Existing Electrical Connection (Electrical Service Revision Type 17): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosure and grounding; furnishing and installing new meter socket enclosure, 3" PVC Schedule 80 sweep, expansion coupling, grounding, termination of existing service conductors in new meter socket, building finish repair and connection and/or inspection fees.
- R. 730-05.21 Modify Existing Electrical Connection (Electrical Service Revision Type 18): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service and indoor meter socket enclosure; furnishing and installing new 100A service

Bid Form

- equipment including enclosed circuit breaker, meter socket enclosure, #2 and #8 conductors, 1-1/4" and 3" PVC Schedule 80 conduit and sweep, expansion coupling, conduit body, grounding, termination of conductors in new meter socket and at existing service equipment, building finish repair and connection and/or inspection fees.
- S. 730-05.22 Modify Existing Electrical Connection (Electrical Service Revision Type 19): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service and indoor meter socket enclosure; furnishing and installing new 200A service equipment including enclosed circuit breaker, meter socket enclosure, #3/0 and #6 conductors, 2" and 3" PVC Schedule 80 conduit and sweep, expansion coupling, conduit body, grounding, termination of conductors in new meter socket and at existing service equipment, building finish repair and connection and/or inspection fees.
- T. 730-05.23 Modify Existing Electrical Connection (Electrical Service Revision Type 20): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including furnishing and installing a new 100A metered power pedestal with branch circuit panel, time switch, receptacle, concrete foundation, #8 conductors, 2" and 3" PVC Schedule 80 conduit and sweep, expansion coupling, conduit body, grounding, termination of conductors in new meter socket, connection and/or inspection fees.
- U. 730-05.24 Modify Existing Electrical Connection (Electrical Service Revision Type 21): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service; furnishing and installing new 3" PVC Schedule 80 conduit and sweep, expansion coupling, auxiliary gutter, grounding, building finish repair and connection and/or inspection fees.
- V. 730-05.25 Modify Existing Electrical Connection (Electrical Service Revision Type 22): Payment for accepted quantities, complete and in place shall be made for each (EA) electrical service revision including demolition of existing overhead service including existing meter socket enclosures, service disconnect switch and grounding; furnishing and installing new 2-gang meter socket enclosure, disconnect switch, #2 and #3/0 conductors, 3" PVC Schedule 80 conduit, sweep and expansion coupling, 2" and 1-1/4" PVC Schedule 40 conduits, grounding, termination of conductors in new meter sockets and at existing service equipment, building finish repair and connection and/or inspection fees. Pricing shall include field verification of existing service equipment size and condition.
- ELECTRICAL DISTRIBUTION (SECTION 790)
- A. Item 790-42.08 Direct Burial Conduit (2" PVC, Schedule 40): This item is for furnishing and installing direct burial conduit. Note: Trench and backfill are covered in separate pay items listed below. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of 2" PVC Schedule 40 conduit furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including conduit, bends, stub-ups from below grade, couplings, and pull rope.
- B. Item 790-42.09 Direct Burial Conduit (3" PVC, Schedule 40): This item is for furnishing and installing direct burial conduit. Note: Trench and backfill are covered in separate pay items listed below. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of 3" PVC Schedule 40 conduit furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including conduit, bends, stub-ups from below grade, couplings, and pull rope.
- C. Item 790-42.10 Direct Burial Conduit (4" PVC, Schedule 40): This item is for furnishing and installing direct burial conduit. Note: Trench and backfill are covered in separate pay items listed below. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of 4" PVC Schedule 40 conduit furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including conduit, bends, stub-ups from below grade, couplings, and pull rope.
- D. Item 790-42.13 Encased Conduit 2-4" PVC Schedule 40: This pay item shall be used for furnishing and installing concrete encased conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of concrete encased 2-4" PVC Schedule 40 conduits furnished and installed in

Bid Form

accordance with TDOT Section 714, and as modified by the Drawings and Specifications, including, conduit, conduit bends, couplings, concrete, and pull rope.

Note: Trench and backfill are covered in separate pay items listed below.

- E. Item 790-42.14 Encased Conduit 3-4" PVC Schedule 40: This pay item shall be used for furnishing and installing concrete encased conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of concrete encased 3-4" PVC Schedule 40 conduits furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications, including, conduit, conduit bends, couplings, spacers, concrete, and pull rope.

Note: Trench and backfill are covered in separate pay items listed below.

- F. Item 790-42.15 Encased Conduit 4-4" PVC Schedule 40: This pay item shall be used for furnishing and installing concrete encased conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of concrete encased 4-4" PVC Schedule 40 conduits furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications, including, conduit, conduit bends, couplings, spacers, concrete, and pull rope.

Note: Trench and backfill are covered in separate pay items listed below.

- G. Item 790-42.16 Encased Conduit 5-4" PVC Schedule 40: This pay item shall be used for furnishing and installing concrete encased conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of concrete encased 5-4" PVC Schedule 40 conduits furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications, including, conduit, conduit bends, couplings, spacers, concrete, and pull rope.

Note: Trench and backfill are covered in separate pay items listed below.

- H. Item 790-42.18 Encased Conduit 2-6" PVC Schedule 40: This pay item shall be used for furnishing and installing concrete encased conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of concrete encased 2-6" PVC Schedule 40 conduits furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications, including, conduit, conduit bends, couplings, spacers, concrete, and pull rope.

Note: Trench and backfill are covered in separate pay items listed below.

- I. Item 790-42.19 Encased Conduit 4-6" PVC Schedule 40: This pay item shall be used for furnishing and installing concrete encased conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of concrete encased 4-6" PVC Schedule 40 conduits furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications, including, conduit, conduit bends, couplings, spacers, concrete, and pull rope.

Note: Trench and backfill are covered in separate pay items listed below.

- J. Item 790-42.21 MTEMC Riser Pole Conduit 1-2" (MTEMC DWG RP-1): Payment for accepted quantities, complete, shall be made at the contract price for each (EA) riser pole conduit including 2" PVC Schedule 80 conduit, PVC Schedule 80 sweeps, standoff bracket, and conduit caps as required per MTEMC requirements.

- K. Item 790-42.22 MTEMC Riser Pole Conduit 1-3" (MTEMC DWG RP-1): Payment for accepted quantities, complete, shall be made at the contract price for each (EA) riser pole conduit including 3" PVC Schedule 80 conduit, PVC Schedule 80 sweeps, standoff bracket, and conduit caps as required per MTEMC requirements.

- L. Item 790-42.23 MTEMC Riser Pole Conduit 1-4" (MTEMC DWG RP-1): Payment for accepted quantities, complete, shall be made at the contract price for each (EA) riser pole conduit including 4" PVC Schedule 80 conduit, PVC Schedule 80 sweeps, standoff bracket, and conduit caps as required per MTEMC requirements.

- M. Item 790-42.24 MTEMC Encased Primary Riser Pole Conduit 2-6" (MTEMC DWG RP-3): Payment for accepted quantities, complete, shall be made at the contract price for each (EA) primary riser pole conduit including PVC Schedule 80 conduits, PVC Schedule 80 sweeps, standoff bracket, concrete pier, and conduit caps as required per MTEMC requirements.

- N. Item 790-42.27 Riser Pole Conduit Stub-Up - 2" Conduit: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) riser pole conduit including 2" PVC Schedule 80 conduit, PVC Schedule 80 sweeps, standoff bracket, and conduit caps furnished and installed in accordance with TDOT Section 714.

Bid Form

- O. Item 790-42.28 Riser Pole Conduit Stub-Up - 3" Conduit: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) riser pole conduit including 3" PVC Schedule 80 conduit, PVC Schedule 80 sweeps, standoff bracket, and conduit caps furnished and installed.
- P. Item 790-42.29 Riser Pole Conduit Stub-Up - 4" Conduit: Payment for accepted quantities, complete, shall be made at the contract price for each (EA) riser pole conduit including 4" PVC Schedule 80 conduit, PVC Schedule 80 sweeps, standoff bracket, and conduit caps furnished and installed.
- Q. Item 790-42.30 CATV Pedestal Make Ready: Payment for accepted quantities, furnished and installed shall be made at the contract price for each (EA) CATV pedestal location including conduit stub-ups, excavation, gravel base, backfill and restoration.
- R. Item 790-42.31 Telephone Pedestal Make Ready: Payment for accepted quantities, furnished and installed shall be made at the contract price for each (EA) telephone pedestal location including conduit stub-ups, excavation, gravel base, backfill and restoration.
- S. Item 790-42.41 Trench Type A: This pay item shall be used for trench excavation for concrete encased 6" duct banks with 4" concrete encased conduits and direct buried utility system conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of trench furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including trench excavation, sheeting (where required), backfill, disposal of excess or unsuitable material, warning tape, and temporary asphalt patch for areas located within the project limits or surface repair by the Electrical Contractor for areas located outside of the project limits.
- T. Item 790-42.42 Trench Type B: This pay item shall be used for trench excavation for concrete encased 4" duct banks with direct buried utility distribution system conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of trench furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including trench excavation, sheeting (where required), backfill, disposal of excess or unsuitable material, warning tape, and temporary asphalt patch for areas located within the project limits or surface repair by the Electrical Contractor for areas located outside of the project limits.
- U. Item 790-42.43 Trench Type C: This pay item shall be used for trench excavation for concrete encased 4" or 6" duct banks. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of trench furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including trench excavation, sheeting (where required), backfill, disposal of excess or unsuitable material, warning tape, and temporary asphalt patch for areas located within the project limits or surface repair by the Electrical Contractor for areas located outside of the project limits.
- V. Item 790-42.44 Trench Type D: This pay item shall be used for trench excavation for direct buried utility distribution system conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of trench furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including trench excavation, sheeting (where required), backfill, disposal of excess or unsuitable material, warning tape, and temporary asphalt patch for areas located within the project limits or surface repair by the Electrical Contractor for areas located outside of the project limits.
- W. Item 790-42.45 Trench Type S: This pay item shall be used for trench excavation for direct buried service lateral conduits. Payment for accepted quantities, complete in place, shall be made at the contract price per linear foot (LF) of trench furnished and installed in accordance with TDOT Section 714, and as modified by the Drawings and Specifications including trench excavation, sheeting (where required), backfill, disposal of excess or unsuitable material, warning tape, and temporary landscaping/asphalt patch for areas located within the project limits or surface repair by the Electrical Contractor for areas located outside of the project limits.
- X. Item 790-43.46 Pullbox, 36"L x 24"W x 18"D, MTEMC-ELECTRIC Logo: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) grade level flush pullbox furnished and installed per MTEMC requirements including excavation, gravel base and backfill.
- Y. Item 790-43.47 Pullbox, 48"L x 30"W x 36"D, MTEMC-ELECTRIC Logo: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) grade level flush pullbox furnished and installed per MTEMC requirements including excavation, gravel base and backfill.

Bid Form

- Z. Item 790-43.50 Pullbox, 48"L x 30"W x 18" D, CATV-COMCAST Logo: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) grade level flush pullbox furnished and installed including excavation, gravel base and backfill.
- AA. Item 790-43.51 Pullbox, 60"L x 36"W x 18" D, TELEPHONE-AT&T Logo: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) grade level flush pullbox furnished and installed including excavation, gravel base and backfill.
- BB. Item 790-43.52 Precast Concrete Manhole, 12'-0"L x 6'-0"W x 7'-1"H: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) precast concrete manhole furnished and installed per MTEMC requirements including excavation, compacted gravel base, backfill, and heavy duty frame and cover.
- CC. Item 790-50.03 Box Pad Foundation "BP-1" for MTEMC Single-Phase Transformer: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) box pad foundation furnished and installed per MTEMC requirements including excavation, gravel base, backfill and restoration.
- DD. Item 790-51.06 Precast Concrete "Pad No. 1" for MTEMC Three-Phase Transformer: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) precast concrete pad furnished and installed per MTEMC requirements including excavation, gravel base, backfill and restoration.
- EE. Item 790-51.07 Precast Concrete Box Pad for MTEMC Three Phase "Sector" Switch: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) precast concrete box pad furnished and installed per MTEMC requirements including excavation, gravel base, backfill and restoration.
- FF. Item 790-51.08 Precast Concrete "Pad No.10" for MTEMC "Vista" Switch: Payment for accepted quantities, furnished and installed complete in place shall be made at the contract price for each (EA) precast concrete pad and box foundation furnished and installed per MTEMC requirements including excavation, gravel base, backfill and restoration.

END OF SECTION

FOOTNOTE (3)

BASELINE; BASE STATION 1000 IRRIGATION CONTROLLER; BASELINE PFS SERIES FLOW SENSOR AND METER; BASELINE FLOW BICODERS/BISENSORS BL-5315B; BASELINE SURGE ARRESTOR.

FOOTNOTE (4)

HOLOPHANE; S ANCHOR BASE FLUTED TAPERED LIGHT POLES, TSG007665 POLE TYPE A AND TYPE B; HOLOPHANE FILTER GWLF/200-SCAY033J; HOLOPHANE ARM RBC51/1-CA/CSY033J; HOLOPHANE LUMIMAIRES MPU250PMMCA4 S-64320, MPU250PMMCCMC4 S-64320.

FOOTNOTE (5)

HOLOPHANE; S ANCHOR BASE FLUTED TAPERED LIGHT POLES, TSG007665 POLE TYPE A AND TYPE B; HOLOPHANE FILTER GWLF/200-SCAY033J; HOLOPHANE ARM RBC51/1-CA/CSY033J; HOLOPHANE LUMIMAIRES MPU250PMMCA4 S-64320, MPU250PMMCCMC4 S-64320, AND PHOTOCCELL.

FOOTNOTE (6)

HOLOPHANE; ARCH FLOOD LIGHT H710/100M/MA/HFL/KM/HMSA18/BD LPI AS.

ESTIMATED WATER AND SEWER
QUANTITIES

Bid Form

FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE
1W	795-01.03	6IN DIP RESTRAINED JOINT WATER LINE	L.F.	0	285	285	84.00	23,940.00
1W	795-01.04	6IN DIP SLIP JOINT WATER LINE	L.F.	0	1,175	1,175	81.00	95,175.00
1W	795-01.05	8IN DIP RESTRAINED JOINT WATER LINE	L.F.	0	230	230	91.00	20,930.00
1W	795-01.09	12IN DIP RESTRAINED JOINT WATER LINE	L.F.	0	65	65	150.00	9,750.00
1W	795-01.15	18IN DIP RESTRAINED JOINT WATER LINE	L.F.	0	1,250	1,250	160.00	200,000.00
1W	795-01.16	18IN DIP SLIP JOINT WATER LINE	L.F.	0	1,610	1,610	140.00	225,400.00
2W	795-06.03	CONNECT TO 4IN WATER LINE	EACH	0	1	1	1500.00	1,500.00
2W	795-06.04	CONNECT TO 6IN WATER LINE	EACH	0	4	4	1,500.00	6,000.00
2W	795-06.05	CONNECT TO 8IN WATER LINE	EACH	0	3	3	1,500.00	4,500.00
2W	795-06.07	CONNECT TO 12IN WATER LINE	EACH	0	2	2	2,600.00	5,200.00
2W	795-06.10	CONNECT TO 18IN WATER LINE	EACH	0	1	1	1,500.00	1,500.00
	795-06.30	CUT / CAP EXISTING LINES (ALL SIZES)	EACH	0	3	3	690.00	2,070.00
	795-06.33	CUT AND CAP 6IN WATER LINE	EACH	0	3	3	690.00	2,070.00
	795-06.34	CUT AND CAP 8IN WATER LINE	EACH	0	2	2	690.00	1,380.00
4W	795-08.04	6IN GATE VALVE ASSEMBLY	EACH	0	8	8	1,500.00	12,000.00
4W	795-08.05	8IN GATE VALVE ASSEMBLY	EACH	0	3	3	1,900.00	5,700.00
4W	795-08.08	12IN BUTTERFLY VALVE ASSEMBLY	EACH	0	2	2	3,100.00	6,200.00
4W	795-08.09	12IN GATE VALVE ASSEMBLY	EACH	0	1	1	3,200.00	3,200.00
4W	795-08.15	18IN BUTTERFLY VALVE ASSEMBLY	EACH	0	4	4	5,500.00	22,000.00
5W	795-09.01	3/4IN WATER SERVICE METER ASSEMBLY	EACH	0	29	29	1,000.00	29,000.00
5W	795-09.06	4IN WATER SERVICE METER ASSEMBLY (VAULT)	EACH	0	1	1	16,000.00	16,000.00
5W	795-09.07	6IN WATER SERVICE METER ASSEMBLY (VAULT)	EACH	0	2	2	20,000.00	40,000.00
6W	795-09.09	RELOCATE / RECONNECT SERVICE ASSEMBLY	EACH	0	29	29	100.00	2,900.00
7W	795-09.28	3/4IN COPPER SERVICE PIPE	L.F.	0	940	940	5.50	5,170.00
7W	795-09.30	3/4IN PEX SERVICE PIPE	L.F.	0	425	425	3.00	1,275.00
5W	795-11.02	FIRE HYDRANT ASSEMBLY	EACH	0	6	6	2,800.00	16,800.00
2W	795-11.03	RECONNECT FIRE HYDRANT	EACH	0	1	1	460.00	460.00
5W	795-11.05	FIRE PROTECTION METER (8" WITH VAULT)	EACH	0	1	1	26,000.00	26,000.00
8W	795-12.01	REMOVE FIRE HYDRANT	EACH	0	4	4	230.00	920.00
8W	795-12.02	REMOVAL OF EXISTING LINE	LS	0	1	1	10,000.00	10,000.00
9W	795-13.01	DI FITTINGS	LBS	0	27,780	27,780	7.00	194,460.00
10	795-14.02	CLASS B CONCRETE	C.Y.	0	75	75	150.00	11,250.00
10	795-14.05	CONCRETE ENCASMENT/CAP	L.F.	0	160	160	36.00	5,760.00
11	795-14.08	RESTORE ASPHALT	S.Y.	0	175	175	90.00	15,750.00
11	795-14.09	RESTORE CONCRETE	S.Y.	0	45	45	110.00	4,950.00

12,000.00

Bid Form

ESTIMATED WATER AND SEWER QUANTITIES							
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	TOTAL PRICE
	795-15.02	12IN STEEL CASING PIPE OPEN CUT METHOD	L.F.	0	80	80	7,200.00
	795-15.25	16IN STEEL CASING PIPE OPEN CUT METHOD	L.F.	0	85	85	8,160.00
7W	795-15.26	1-1/2IN STEEL CASING PIPE OPEN CUT METHOD	L.F.	0	500	500	8,500.00
1S	797-05.51	8IN PVC GRAVITY SEWER 0FT - 6FT DEPTH	L.F.	0	2,245	2,245	121,230.00
1S	797-05.52	8IN PVC GRAVITY SEWER 6FT - 12FT DEPTH	L.F.	0	4,310	4,310	284,460.00
2S	797-07.02	48IN MANHOLE 4FT - 6FT DEPTH	EACH	0	3	3	2,200.00
2S	797-07.03	48IN MANHOLE 6FT - 8FT DEPTH	EACH	0	19	19	2,900.00
2S	797-07.04	48IN MANHOLE 8FT - 10FT DEPTH	EACH	0	3	3	3,900.00
2S	797-07.05	48IN MANHOLE 10FT - 12FT DEPTH	EACH	0	1	1	4,800.00
3S	797-07.56	MANHOLE DROP CONNECTION ASSEMBLY	EACH	0	1	1	850.00
1S	797-08.05	6" PVC PIPE FOR SERVICE LATERAL	L.F.	0	1,900	1,900	36,100.00
3S	797-08.08	6" CLEAN OUT ASSEMBLY	EACH	0	39	39	42,900.00
4S	797-10.06	CONNECT 6" LATERAL TO SEWER LINE	EACH	0	39	39	33,150.00
4S	797-10.09	CONNECT EXISTING 8IN SEWER TO NEW MANHOLE	EACH	0	8	8	7,920.00
5S	797-11.25	RETIRE IN PLACE 48" MANHOLE	EACH	0	16	16	12,480.00
6S	797-11.35	REMOVE EXISTING SEWER 8IN - 14IN	L.F.	0	70	70	1,190.00
7S	797-11.38	BY-PASS PUMPING	LS	0	1	1	\$25,000.00
11	797-11.39	RESTORE ASPHALT	S.Y.	0	385	385	34,650.00
11	797-11.40	RESTORE CONCRETE	S.Y.	0	60	60	6,600.00
6S	797-12.01	CUT, CAP AND ABANDON EXISTING 8IN SEWER LINE	EACH	0	6	6	6,000.00
10	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	0	75	75	1,650.00
		SUB-TOTAL WATER AND SEWER					1,745,450.00

WATER AND SEWER FOOTNOTES:

WATER FOOTNOTES:

FOOTNOTE 1W:

INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, THRUST BLOCKING, CONCRETE DEADMAN, TRACER WIRE, WARNING TAPE, APPURTENANCES,

Bid Form

TEMPORARY SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.

FOOTNOTE 2W:
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.

FOOTNOTE 3W:
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAPPING SLEEVE, VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.

FOOTNOTE 4W:
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO FITTINGS, VALVE, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.

FOOTNOTE 5W:
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS EXCEPT FOR SERVICE LINE WHICH IS PAID SEPERATELY FOR EACH FOOT INSTALLED.

FOOTNOTE 6W:
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF EXISTING WATER SERVICE METER ASSEMBLY AND INSTALLING A NEW WATER METER ASSEMBLY AT DESIRED OWNER LOCATION.

FOOTNOTE 7W:
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.

FOOTNOTE 8W:
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF ITEM.

FOOTNOTE 9W:
INCLUDES FITTINGS, GLANDS AND RESTRAINT DEVICES DESCRIBED IN POUNDS.

FOOTNOTE 10:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF UNIT OR LUMP SUM ITEM AS SPECIFIED ON BID FORM. PLACEMENT SHALL BE DIRECTED BY THE OWNER OR ENGINEER.

FOOTNOTE 11:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, SETUP AND TRAFFIC CONTROL FOR RESTORING ASHALT ROAD/DRIVE AND CONCRETE SIDEWALK/GUTTERS NOT IN STATE ROW.

SEWER FOOTNOTES:

Bid Form

FOOTNOTE 1S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDDING, BACKFILLING, APPURTENANCES, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE FOR GRAVITY SEWER LINES. DUCTILE IRON PIPE GRAVITY SEWER LINES SHALL BE EPOXY LINED.

FOOTNOTE 2S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR INSTALLATION OF PRECAST MANHOLE BOTHER PREFORMED BASE OR OPEN BOTTOM (DOGHOUSE), INCLUDING BUT NOT LIMITED TO CRUSHED STONE, PIPE TO MANHOLE CONNECTORS, EXCAVATION, BACKFILL, BUTYL RESIN GASKET, MANHOLE STEPS, ASPHALTIC WATERPROOFING, WATERTIGHT FRAME AND COVER, AND TRAFFIC CONTROL.

FOOTNOTE 3S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED AND DETAILED IN THE PLANS AND SPECS.

FOOTNOTE 4S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING SEWER LINE OR MANHOLE AS SPECIFIED ON THE PLANS, INCLUDING TRAFFIC CONTROL.

FOOTNOTE 5S:

INCLUDES ALL LABOR, EQUIPMENT, DIPOSAL OF WASTE MATERIAL, DRILLING HOLES IN BASE FOR PROPER DRAINAGE, REMOVAL OF NECESSARY CASTING, CONE AND BARRAL SECTIONS FOR PROPER GRADE AND STONE BACKFILL.

FOOTNOTE 6S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR RETIRE IN PLACE OR REMOVE ITEMS AS SPECIFIED ON THE BID FORM INCLUDING TRAFFIC CONTROL.

FOOTNOTE 7S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR INTERNAL OR EXTERNAL POINT REPAIRS AS SPECIFIED IN THE BID FORM.

ESTIMATED AT&T QUANTITIES								
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 1084099.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	UNIT PRICE	TOTAL PRICE
15	793-13.07	4IN SCHEDULE 40 PVC	L.F.	0	21,100	21,100	3.80	80,180.00
16	793-13.12	1 DUCT FORMATION @ 36IN DEPTH	L.F.	0	485	485	14.50	7,032.50
16	793-13.17	2 DUCT FORMATION @ 36IN DEPTH	L.F.	0	85	85	14.50	1,232.50
16	793-13.22	3 DUCT FORMATION @ 36IN DEPTH	L.F.	0	75	75	14.50	1,087.50
16	793-13.32	6 DUCT FORMATION @ 36IN DEPTH	L.F.	0	2,505	2,505	32.00	80,160.00
16	793-13.37	9 DUCT FORMATION @ 36IN DEPTH	L.F.	0	190	190	35.50	6,745.00
16	793-13.51	8 DUCT FORMATION @ 36IN DEPTH	L.F.	0	435	435	35.50	15,442.50
17	793-14.03	MANHOLE PRECAST 6-FT WIDE X 12-FT	EACH	0	2	2	15,870.00	31,740.00

Bid Form

ESTIMATED AT&T QUANTITIES							
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 1085409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	TOTAL PRICE
		LONG X 7-FT HIGH					
18	793-14.10	4IN CORE DRILL INTO MANHOLE	EACH	0	6	6	1,320.00
9	793-16.01	MH (RETIRE/REMOVE/GRAVEL BACKFILL)	EACH	0	2	2	1,460.00
		SUB-TOTAL AT&T					226,400.00

AT&T FOOTNOTES :

- (9) INCLUDES ALL LABOR INCLUDING TRAFFIC CONTROL AND SETUP, REMOVAL OF LID AND COLLARS, BACKFILL WITH GRAVEL.
- (15) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SETUP, BENDS, AND TRAFFIC CONTROL.
- (16) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SPACERS, COUPLINGS, BENDS, OPENING TRENCH, BACKFILL PER SPECS, SURFACE RESTORATION OF ALL CROSSINGS TO TDOT STANDARDS, SETUP, TRAFFIC CONTROL.
- (17) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO DIGGING HOLE, GRAVEL BASE, BACKFILL, AND SURFACE RESTORATION TO TDOT STANDARDS, FRAME AND COVER, SETUP AND TRAFFIC CONTROL.
- (18) INCLUDES PIPE, SETUP, CABLE LOCATION AND BORING

ESTIMATED ATMOS GAS QUANTITIES							
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL PIN 1085409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	TOTAL PRICE
1	791-03.02	2IN HDPE GAS MAIN	L.F.	0	1,900	1,900	35,625.00
1	791-03.04	4IN HDPE GAS MAIN	L.F.	0	150	150	3,600.00
1	791-03.05	6IN HDPE GAS MAIN	L.F.	0	3,200	3,200	102,400.00
2	791-04.02	HDD 2IN PE PIPE - UNCONSOLIDATED	L.F.	0	1	1	88.00
2	791-04.04	HDD 4IN PE PIPE - UNCONSOLIDATED	L.F.	0	1	1	88.00
2	791-04.05	HDD 6IN PE PIPE - UNCONSOLIDATED	L.F.	0	1	1	94.00
2	791-04.11	HDD 2IN PE PIPE - ROCK	L.F.	0	1	1	150.00
2	791-04.13	HDD 4IN PE PIPE - ROCK	L.F.	0	1	1	160.00
2	791-04.14	HDD 6IN PE PIPE - ROCK	L.F.	0	1	1	170.00
4	791-06.02	CONNECT TO 2IN EX. PE MAIN	EACH	0	3	3	3,300.00
4	791-06.04	CONNECT TO 6IN EX. PE MAIN	EACH	0	1	1	2,750.00
4	791-06.12	CONNECT TO 4IN EX. STL MAIN W/ STOPPLE	EACH	0	1	1	8,580.00
4	791-06.33	CONNECT TO 6IN EX. STL MAIN W/ STOPPLE	EACH	0	1	1	9,680.00
5	791-07.03	6IN PE GAS VALVE ASSEMBLY	EACH	0	2	2	5,280.00
6	791-08.02	3/4IN SERVICE ASSEMBLY	EACH	0	29	29	15,370.00
6	791-08.07	3/4IN PE SERVICE PIPE	L.F.	0	2,450	2,450	34,900.00

Bid Form

ESTIMATED ATMOS GAS QUANTITIES							
FOOT NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING, STATE/FEDERAL, PIN 108409.00)	EST QTY. (NON-PARTICIPATING, CITY SECTION)	TOTAL EST QTY.	TOTAL PRICE
6	791-08.17	HDD 3/4IN PE SERVICE PIPE	L.F.	0	100	100	5,500.00
OFF R.O.W.	791-09.05	RESTORE ASPHALT	S.Y.	0	1	1	86.00
OFF R.O.W.	791-09.06	RESTORE CONCRETE	S.Y.	0	1	1	250.00
OFF R.O.W.	791-09.07	RESTORE GRAVEL	S.Y.	0	1	1	44.00
9	791-10.01	RETIRE IN PLACE 3/4IN SERV CUT & PLUG	EACH	0	27	27	660.00
9	791-10.04	RETIRE IN PLACE 2IN SERV CUT & PLUG	EACH	0	3	3	1,320.00
9	791-10.06	RETIRE IN PLACE 6IN SERV CUT & PLUG	EACH	0	1	1	1,980.00
		SUB-TOTAL ATMOS GAS					2,51,277.00

ATMOS ENERGY FOOTNOTES:

- (1) "INCLUDES ALL MATERIALS INCLUDING SAND/STONE BEDDING, FLOWABLE FILL, TEMPORARY PAVEMENT IN OR OUT OF ROW, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, EXCAVATION INCLUDING DIRT/ROCK, BACKFILLING, CREEK CROSSINGS PER SWPPP, COUPLINGS, FITTINGS, PIPE FUSION, APPURTENANCES, MAINTAINING THE TRENCH, PURGE POINT. INSTALLATION, TESTING BY UTILITY SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO AIR, NITROGEN, HYDROSTATIC OR X-RAY, DEW POINT OR DRYING, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE. THE WORK AS SPECIFIED ON THE PLANS."
- (2) INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASD CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK. STEEL PIPE INCLUDES SPECIAL COATING AS SPECIFIED ON PLANS AND SPECS. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM PRICE.
- (3) INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, NECESSARY FOR BORE & JACK OF GAS LINE CASING PIPE INCLUDING BUT NOT LIMITED TO ENTRY AND EXIT PITS, B & J EQUIPMENT AND TRAFFIC CONTROL. CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM PRICE.
- (4) INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, NECESSARY FOR CONNECTING TO EXISTING GAS LINE, INCLUDING TRAFFIC CONTROL.
- (5) INCLUDES TRANSITION FITTINGS, VALVES, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, COUPLINGS, FUSION TEES, TAP OF EXISTING LINE, AND ALL OTHER NECESSARY MATERIALS AND LABOR FOR COMPLETE INSTALLATION OF ASSEMBLY, INCLUDING TRAFFIC CONTROL.
- (6) INCLUDES ALL MATERIALS, PARTS, LABOR, EQUIPMENT, MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF GAS SERVICE ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS. INSTALLATION FOR LONG SIDE AND SHORT SIDE APPLICATIONS. SERVICE PIPE SHALL BE PAID PER LINEAR FOOT INSTALLED.
- (7) INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF INDIVIDUAL ITEM AS SPECIFIED ON BID FORM AND UTILITY SPECIFICATIONS.
- (8) INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF ITEM.

Bid Form

(9) "INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR RETIREMENT OF ITEM INCLUDING STABILIZING THE ITEM OF PLANT PER UTILITY SPECIFICATION

ESTIMATED PROJECT TOTALS	TOTAL PRICE (1)
SUB-TOTAL ROADWAY	5,868,076.48
SUB-TOTAL SIGNALIZATION/COMMUNICATION	491,170.50
SUB-TOTAL STREETSCAPE AND ELECTRICAL	3,412,631.15
SUB-TOTAL WATER AND SEWER	1,745,450.00
SUB-TOTAL AT&T	226,400.00
SUB-TOTAL ATMOS GAS	251,277.00
Total Project Bid	11,995,005.13

- (1) All Unit Prices and Specific Cash Allowances are included in the above price.
 - (2) Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities provided, determined as provided in the Contract Documents.
 - (3) Bidder accepts the following amendments to the following sections of the "TN Department of Transportation, Standard Specifications for Road and Bridge Construction", Dated January 1, 2015
 - Section 104.02, Alterations in Plans or in Character of Construction, Significant Changes in the Character of Work – To be modified as follows:
 - Significant Changes in the Character of Work:**
 - 1. *The Engineer reserves the right to make at any time during the work, such changes in quantities and such alterations in the work as are necessary to satisfactorily complete the project.*
 - 2. *If the alterations or changes in quantities significantly change the character of the work under the contract, whether or not changed by any such different quantities or alterations, no adjustment, excluding loss of anticipated profits, will be made to the contract*
 - 3. *If the alterations or changes in quantities do not significantly change the character of the work to be performed under the contract, the altered work will be paid for as provided elsewhere in the contract.*
 - 4. *An adjustment of the contract terms in accordance with number 2 above will be made only if the Engineer orders, in writing, an alteration in the work or in the quantities that significantly change the character of work. The term "significant change" shall be construed to apply only to the following circumstances:*
 - (a) *When the character of the work as altered differs materially in kind or nature from that involved or included in the original proposed construction.*
- The above provides for adjustments resulting from formal change orders by the Engineer, in writing. Either party may initiate an adjustment and both must be in agreement before the work is performed.*

Bid Form

- Section 108.01 – Subletting of Contract, Omit the first paragraph and replace as follows *“The Contractor shall not sublet, not allow second tier sublet, sell, transfer, assign, or otherwise dispose of the Contract or Contracts or any portion thereof or of his right, title, or interest therein, without written consent of the Engineer. In case such consent is given, the Contractor will be permitted to sublet or second tier sublet a portion thereof but shall perform with his own organization, work amounting to not less than 50% of the total original contract cost, except that any items designated in the contract documents as “Specialty Items” may be performed by subcontract or second tier sublet and the cost of any such Specialty Items so performed by subcontract and second tier subcontracting may be deducted from the total original cost before computing the amount of work required to be performed by the Contractor with his own organization.”*

- Section 109.06 – Partial Payment, Omit the following *”5. The total quantity of stockpiled material for which partial payment is made shall not exceed the estimated plans quantity or that quantity established by the Engineer as being required to complete the project. If project conditions result in less quantity of materials being required to complete the project than that on which stockpile payment has been made, the Contractor shall dispose of the excess materials at no cost to the State.”*

- SECTION 101-DEFINITIONS AND TERMS
 - The following definitions are modified as follows:
 - 101.20-Engineer. The Chief Engineer of the Department of Transportation or his duly authorized assistant or representative. The City of Franklin or duly authorized representative.
 - 101.47-Special Provisions (TN Dept. of Transportation or City of Franklin). Provisions inserted into a Contract revising these Specifications or Supplements hereto, and covering conditions peculiar to the individual project. Special Provisions, when approved and accepted for general use are incorporated in the "Revisions and Additions" document.
 - 101.49-State. The State of Tennessee or City of Franklin

PROPOSAL CERTIFICATION

The undersigned, being first duly sworn, certifies on behalf of the bidder that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this Proposal or Contract. This is an official document that is required or authorized by law to be made under oath and is presented in an official proceeding. A person who makes a false statement in this certification is subject to the penalties of perjury.

The undersigned further certifies that said bidder is not under the control of any person, firm, partnership, or corporation, which has or exercises any control of any other person, firm, partnership, or corporation, which is submitting a bid on this Contract.

EUTAW CONSTRUCTION COMPANY, INC.

Sworn to and subscribed before me

Bidder (1)

this 20 day of January 2016

By: [Signature]

MATTHEW K. MCQUEEN -- DIVISION MANAGER

Printed Name and Title

ERIC R. LOWE

Notary Public

My commission expires July 23, 2019

(Seal)



Sworn to and subscribed before me

Bidder (2)

this _____ day of _____,

By: _____

Printed Name and Title

Notary Public

My commission expires _____

(Seal)

*NOTE: The signature and information for Bidder (2) is to be provided when there is a joint venture.

CITY OF FRANKLIN, TENNESSEE

FRANKLIN, TENNESSEE

PROPOSAL BOND

CONTRACT NO. 2015-0002

Principal: Eutaw Construction Company, Inc.
Print Name of Principal

Surety: Travelers Casualty and Surety Company of America
Print Name of Surety

KNOW ALL MEN BY THESE PRESENTS, that we, the Principal and Surety above named, are held and firmly bound unto the **CITY** in the full and just sum of five percent (5%) of the total amount bid by the Principal for the project stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

NOW, THEREFORE, the condition of this obligation is: the Principal shall not withdraw its bid within sixty (60) days after the opening of the bids, or within such other time period as may be provided in the Proposal, and if the **CITY** shall award a Contract to the Principal, the Principal shall, within ten (10) days after written notice of the award is received by him, fully execute a Contract on the basis of the terms, conditions and unit prices set forth in his Proposal or bid and provide bonds with good and sufficient surety, as required for the faithful performance of the Contract and for the protection of all persons supplying labor, material, and equipment for the prosecution of the work. In the event the Principal withdraws its bid after bids are opened, or after award of the Contract has been made fails to execute such the Contract and/or such additional documents as may be required and to provide the required bonds within the time period specified above, then the amount of the Proposal Bond shall be immediately paid to the **CITY**, not as a penalty, but as agreed upon liquidated damages.

IN WITNESS WHEREOF, the Principal has caused these presents to be signed by a duly authorized official and the Surety has caused these presents to be duly signed and sealed by an authorized agent or attorney-in-fact.

Eutaw Construction Company, Inc.

Travelers Casualty and Surety Company of America

Principal (1)

Surety (1)

By:

Alan Lyles, VICE PRESIDENT

By:

Amanda Jean Charfauros

General Agent or Attorney-in-Fact
Amanda Jean Charfauros

Alan Lyles, VICE PRESIDENT

January 20, 2016

Print Name and Title

Date

January 20, 2016

Date

(Seal)

Principal (2)

Surety (2)

By:

By:

General Agent or Attorney-in-Fact

Print Name and Title

Date

Date

(Seal)

***NOTE: The signature and information for Principal(2) and Surety(2) is to be provided when there is a joint venture.**

POWER OF ATTORNEY



Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 229499

Certificate No. 006202064

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

S. Lyle Bates, Jr., Jerry Eugene Horner, Jr., Jim A. Armstrong, Jerry G. Veazey, Jr., Jason J. Young, Trina Cobb, Linda D. Whittington, Peggy L. Jackson, William E. Howard Jr., Brody Eric Buckley, Angela Bullie, Stephen Wesley Price, Jr., and Amanda Jean Charfauros

of the City of Jackson, State of Mississippi, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 5th day of June, 2015.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
Robert L. Raney, Senior Vice President

On this the 5th day of June, 2015, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
My Commission expires the 30th day of June, 2016.



[Signature]
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 20th day of January, 2016.

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER


Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.



C I T Y O F F R A N K L I N

October 1, 2012

**SPECIAL PROVISION
REGARDING****DRUG-FREE WORKPLACE**
CONTRACTOR'S AFFIDAVIT

- A) The Tennessee General Assembly has enacted the Drug-Free Workplace Law, 50-9-101 through 50-9-113, Tennessee Code Annotated (TCA) to require employers contracting with state agencies or units of local government to prepare affidavits certifying compliance with the Drug-Free Workplace Program.
- B) The statute applies to all employers with no less than five (5) employees receiving pay who contract with the state or any local government to provide construction services. Each such employer must submit an affidavit stating that the employer has in place a program for a drug-free workplace that complies with T.C.A. 50-9-101-113. The statute forbids any local government from entering into any contract or awarding any contract for construction services with any employer who has not provided the affidavit of compliance.
- C) An Employer under this amendment is defined to be any private company or corporation. The definition does not include any unit of local government or any utility.
- D) Any employer who is found to have violated this provision will be prohibited from contracting with any other local government or state agency until the employer can prove it is in compliance with all the requirements of the Drug-Free Workplace Program. Each additional violation imposes longer time periods of prohibition against contracting with a governmental entity against an employer, up to a period of one year.
- E) The employer's affidavit stating that its program provides for a drug-free workplace absolves the local government of any further responsibility for the employer's compliance or lack of compliance with the requirements of the drug-free workplace program.
- F) Affidavit must be attached to bid form upon submission.

C I T Y O F F R A N K L I N

DRUG AND ALCOHOL TESTING REQUIREMENTS:

The City of Franklin has a drug and alcohol testing program for its employees. The program subjects employees and certain applicants, after an offer of employment has been extended, to testing as follows:

Type of Testing	Drug Testing	Alcohol Testing
Pre-Employment	CDL*, POLICE, FIRE, DISPATCH	N/A
Transfer	CDL, POLICE, FIRE, DISPATCH	N/A
Post-Accident	ALL	ALL
Reasonable Suspicion	ALL	ALL
Random	CDL, POLICE, FIRE, DISPATCH	CDL
Return-To-Duty	ALL	ALL
Annual Physical	POLICE, FIRE	N/A

* CDL – Commercial Driver’s License

More information concerning the City’s drug and alcohol testing program may be obtained from the Human Resources Department at 371-0060.

Pursuant to *Tennessee Code Annotated* §§ 50-9-113** and 50-9-114, bids or proposals for construction services submitted to the City of Franklin must include an affidavit attesting that the bidder or proposer has in effect, at the time of submittal, a drug-free workplace program that complies with Title 50, Chapter 9, *Tennessee Code Annotated*; and further, that the bidding entity’s drug and alcohol testing program is operated pursuant to requirements at least as stringent at those of the program operated by the City of Franklin, as described herein.

** *T.C.A.* § 50-9-113 applies to employers with no less than five employees.

C I T Y O F F R A N K L I N

DRUG FREE WORKPLACE AFFIDAVIT

STATE OF TENNESSEE
COUNTY OF WILLIAMSON

DRUG FREE WORKPLACE AFFIDAVIT
OF PRIME BIDDER

NOW COMES AFFIANT, who being duly sworn, deposes and says:

1. He/She is the principal officer for: EUTAW CONSTRUCTION COMPANY, INC.
(Name of Bidding Entity)
109 WEST COMMERCE STREET
(Address of Bidding Entity)
ABERDEEN, MS 39730

2. That the bidding entity has submitted a bid to the City of Franklin on:
HILLSBORO ROAD (SR 106)
(Insert Project Name)

3. That the bidding entity employs no less than five (5) employees.

4. That Affiant certifies that the bidding entity has in effect, at the time of submission of its bid to perform the construction referred to above, a drug-free workplace program that complies with T.C. A. § 50-9-101-113.

5. That the affidavit is made on personal knowledge.

Further Affiant says not.

Alan Pyles, VICE PRESIDENT
AFFIANT

SUBSCRIBED AND SWORN TO BEFORE ME THIS 18th DAY OF January, 2016.



Angela C. Durham
NOTARY PUBLIC

END OF SECTION

**PROJECT QUANTITIES
(COORDINATE WITH TABULATED DATA FOR ADDITIONAL
FOOTNOTES)**

FOOTNOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATI NG, STATE/FEDER AL PIN 108409.000)	EST QTY. (NON- PARTICIPATI NG, CITY SECTION)	TOTAL EST QTY.	UNIT COST	TOTAL
	105-01	CONSTRUCTION STAKES LINES AND GRADES	L.S.	0.64	0.36	1.00	\$110,000.00	\$110,000.00
	201-01	CLEARING AND GRUBBING	L.S.	0.64	0.36	1.00	\$20,478.98	\$20,478.98
(9)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS IN ACCORDANCE WITH SECTION 202-01 OF THE STANDARD SPECIFICATIONS, INCLUSIVE BUT NOT LIMITED TO ITEMS SUCH AS SIGNS, CURBS (CONCRETE/ASPHALT), MAILBOXES AND ALL OTHER ITEMS WITHIN THE GRADING LIMITS UNLESS OTHERWISE NOTED TO REMAIN.)	L.S.	0.64	0.36	1.00	\$100,000.00	\$100,000.00
	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	4,874	2,746	7,620	\$9.00	\$68,580.00
(14)	203-02.03	BORROW EXCAVATION (SOLID ROCK, MAX SIZE 6")	TON	2,500	2,500	5,000	\$16.00	\$80,000.00
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	1,251	704	1,955	\$39.00	\$76,245.00
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	882	497	1,379	\$8.00	\$11,032.00
	203-05	UNDERCUTTING (UNIT PRICE BIDS INCLUDES MINERAL AGGREGATE, SIZE 1 BACKFILL)	C.Y.	731	412	1,143	\$49.00	\$56,007.00
	203-06	WATER	M.G.	1,222	689	1,911	\$3.00	\$5,733.00
	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	1,289	726	2,015	\$20.00	\$40,300.00
	204-08	FOUNDATION FILL MATERIAL	C.Y.	322	182	504	\$11.00	\$20,664.00
(1)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL, INCLUDES 100 C.Y. NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION)	C.Y.	656	469	1,125	\$110.00	\$123,750.00
	209-05	SEDIMENT REMOVAL	C.Y.	62	35	97	\$6.00	\$582.00
(2)	209-08.02	TEMPORARY SILT FENCE WITH BACKING, (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	L.F.	1,855	1,045	2,900	\$4.00	\$11,600.00
	209-08.06	ENHANCED SILT FENCE CHECK (TRAPEZOIDAL), DEPTH, OR AS DIRECTED BY THE ENGINEER, AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	12	7	19	\$320.00	\$6,080.00
	209-09-41	CURB INLET PROTECTION (TYPE 2), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	38	22	60	\$180.00	\$10,800.00
	209-40-41	CATCH BASIN FILTER ASSEMBLY (TYPE 1), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	22	13	35	\$420.00	\$14,700.00
	209-40-42	CATCH BASIN FILTER ASSEMBLY (TYPE 2), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	4	2	6	\$680.00	\$4,080.00
(15)	303-01	MINERAL AGGREGATE TYPE A BASE GRADING "P", (INCLUDES 4714 TONS FOR MAINTENANCE OF TRAFFIC)	TON	13,451	7,577	21,028	\$18.00	\$378,504.00
(4)	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	757	415	1,152	\$27.00	\$31,104.00
	307-02.01	ASPHALT CONCRETE MIX (PG70-22)(BPMH-HM) GRADING A, (INCLUDES 1619 TONS FOR MAINTENANCE OF TRAFFIC)	TON	4,457	2,510	6,967	\$61.00	\$424,987.00
	307-02.02	ASPHALT GEBENT (PG70-22)(BPMH-HM) GRADING A-S, (INCLUDES 41 TONS FOR MAINTENANCE OF TRAFFIC)	TON	113	64	177	\$610.00	\$107,920.00
	307-02.03	AGGREGATE (BPMH-HM) GRADING A-S MIX, (INCLUDES 1,226 TONS FOR MAINTENANCE OF TRAFFIC)	TON	3,374	1,901	5,275	\$45.00	\$237,375.00
	307-02.08	ASPHALT CONCRETE MIX (PG70-22)(BPMH-HM) GRADING B-M2, (INCLUDES 795 TONS FOR MAINTENANCE OF TRAFFIC, INCLUDES 160 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION))	TON	2,339	1,317	3,656	\$63.00	\$230,328.00
(16)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC), (INCLUDES 13 TONS FOR MAINTENANCE OF TRAFFIC)	TON	39	22	61	\$790.00	\$48,190.00

Electronic Copy For Reference

	402-02	AGGREGATE FOR COVER MATERIAL (FC), (INCLUDES 51 TONS FOR MAINTENANCE OF TRAFFIC)	TON	155	87	242		\$25.00	\$6,050.00
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC), (INCLUDES 7 TONS FOR MAINTENANCE OF TRAFFIC, INCLUDES 0.03 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION)	TON	21	12	33		\$680.00	\$22,440.00
(7)	407-20 05	SAW CUTTING ASPHALT PAVEMENT, (TO BE USED AS DIRECTED BY THE ENGINEER FOR CONNECTIONS AT EXISTING ROADWAYS. IF THE CONTRACTOR ELECTS TO SAW CUT FOR OTHER PURPOSES, PAYMENT SHALL BE DISALLOWED UNLESS PRE-APPROVED BY THE ENGINEER)	L.F.	5,059	2,850	7,909		\$1.50	\$11,863.50
(17)	411-02 10	ACS MIX(RG/0-22) GRADING D, (INCLUDES 466 TONS FOR MAINTENANCE OF TRAFFIC, INCLUDES 33 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION)	TON	1,202	959	2,661		\$86.00	\$228,846.00
(6)	415-01 02	COLD PLAINING BITUMINOUS PAVEMENT, (DEPTH 1.25" +/-, TO BE USED AS DIRECTED BY THE ENGINEER. UNIT PRICE INCLUDES ALL WORK NECESSARY TO PREPARE THE AREA FOR PAVING.)	S.Y.	3,660	2,062	5,722		\$4.00	\$22,888.00
(7)	502-04 01	SAW CUTTING CONCRETE PAVEMENT	L.F.	15	9	24		\$3.50	\$84.00
	607-03 02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	2,190	1,233	3,423		\$47.00	\$160,881.00
	607-05 02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	400	225	625		\$58.00	\$36,250.00
	607-06 02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	108	61	169		\$72.00	\$12,168.00
	607-07 02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	604	341	945		\$92.00	\$86,940.00
	607-08 02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1,361	767	2,128		\$110.00	\$234,080.00
	607-09 02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	207	117	324		\$140.00	\$45,360.00
(4)	607-50 09	PRECAST CONCRETE BOX CULVERT (6' X 4')	L.F.	704	396	1,100		\$450.00	\$495,000.00
	611-01 02	MANHOLE, DEPTH 4' - 8' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	1	1	2		\$3,700.00	\$7,400.00
	611-01 20	ADJUSTMENT OF EXISTING MANHOLE	EACH	2	2	4		\$580.00	\$2,320.00
	611-07 54	18" ENDWALL (CROSS DRAIN 3:1)	EACH	1	0	1		\$1,500.00	\$1,500.00
	611-07 63	36" ENDWALL (CROSS DRAIN 3:1)	EACH	0	1	1		\$3,300.00	\$3,300.00
(5)	611-12 02	CATCH BASINS, TYPE 12, DEPTH 4' - 8' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	19	11	30		\$5,000.00	\$150,000.00
(5)	611-12 03	CATCH BASINS, TYPE 12, DEPTH 8' - 12' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	5	3	8		\$6,300.00	\$50,400.00
(5)	611-14 01	CATCH BASINS, TYPE 14, DEPTH 4' - 8' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	8	5	13		\$7,700.00	\$100,100.00
(5)	611-14 02	CATCH BASINS, TYPE 14, DEPTH 8' - 12' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	6	3	9		\$10,000.00	\$90,000.00
	611-39 02	CATCH BASINS, TYPE 39 DEPTH 4' - 8' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	4	2	6		\$5,200.00	\$31,200.00
	611-42 01	CATCH BASINS, TYPE 42, DEPTH 0' - 4' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION, QUANTITY INCLUDES 6 STRUCTURES TO BE COORDINATED WITH STREETSCAPE PLANS PREPARED BY E&G, INC.)	EACH	22	13	35		\$2,700.00	\$94,500.00
	701-01 07	EXPOSED AGGREGATE CONCRETE DRIVEWAY (6" THICKNESS W/ FIBER MESH AND 4" AGGREGATE CLASS "A", GRADING "D", BASE)	S.F.	589	332	921		\$10.00	\$9,210.00
	701-02	CONCRETE DRIVEWAY (6" THICKNESS W/ FIBER MESH AND 4" AGGREGATE CLASS "A", GRADING "D", BASE)	S.F.	606	342	948		\$7.50	\$7,110.00
	701-02 03	CONCRETE CURB RAMP (APPROX APPROX TO BACK OF RIGHT-OF-WAY, 8" THICKNESS W/ FIBER MESH AND 4" AGGREGATE CLASS "A", GRADING "D", BASE)	S.F.	4,146	2,336	6,482		\$7.50	\$48,615.00
	702-01 01	EXTRUDED MOUNTABLE CURB	L.F.	404	227	631		\$12.00	\$7,572.00
	702-01 02	CONCRETE CURB (TYPE "A")	L.F.	179	101	280		\$29.00	\$8,120.00
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	362	204	566		\$270.00	\$152,820.00

(3)	707-08-11	HIGH-VISIBILITY CONSTRUCTION FENCE. (INCLUDES 900 L.F. TO BE USED WITH EROSION CONTROL. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	L.F.	6,755	3,805	10,560		\$1.50	\$15,840.00
	708-02-01	MARKERS. (CONCRETE R.O.W. POST)	EACH	15	9	24		\$230.00	\$5,520.00
	709-05-06	MACHINED RIP-RAP (CLASS A-1)	TON	15	8	23		\$39.00	\$897.00
	709-05-07	MACHINED RIP-RAP (CLASS A-2)	TON	6	4	10		\$40.00	\$400.00
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	7,446	4,194	11,640		\$4.50	\$52,380.00
(13)	712-01	TRAFFIC CONTROL (UNIT PRICE BID INCLUDES INSTALLATION AND REMOVAL COST OF ALL CONFLICTING PAVEMENT MARKINGS (TEMPORARY OR PERMANENT) INCLUDING COST OF TEMPORARY MARKINGS ON THE FINAL ASPHALT TOPPING.)	L.S.	1	0	1		\$85,000.00	\$85,000.00
	712-02-02	INTERCONNECTED PORTABLE BARRIER RAIL. (ESTIMATED QUANTITY IS BASED ON PHASE, WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE DURATION OF THE PROJECT.)	L.F.	3,837	2,163	6,000		\$47.00	\$282,000.00
	712-04-01	FLEXIBLE DRUMS (CHANNELIZING). (ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE DURATION OF THE PROJECT.)	EACH	629	353	982		\$37.00	\$36,334.00
	712-04-10	TEMPORARY FLEXIBLE TUBULAR DELINEATOR (6" to 42" HEIGHT). (ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	EACH	343	193	536		\$48.00	\$25,728.00
(18)	712-06	SIGNS (CONSTRUCTION). (ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	S.F.	280	158	438		\$6.50	\$2,847.00
	712-06-01	VERTICAL PANELS (ESTIMATED QUANTITY IS BASED ON PHASE, WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE DURATION OF THE PROJECT.)	S.F.	768	434	1,202		\$13.00	\$15,626.00
(3), (11)	712-08-01	CONSTRUCTION IDENTIFICATION SIGNS	EACH	3	0	3		\$260.00	\$780.00
(8)	713-11-02	UNIFORMED POLICE OFFICER OR UTILITY INSPECTOR PERFORATED/KNOCKOUT SQUARE TUBE POST (COORDINATE WITH STD. DRAWING T-S-17)	HOURL	1,919	1,081	3,000		\$40.00	\$120,000.00
(8)	713-13-03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	LB	99	338	437		\$110.00	\$48,070.00
(3)	713-16-04	CHANGEABLE MESSAGE SIGN UNIT (MEETS MUTCD REQUIREMENTS FOR PORTABLE MESSAGE SIGNS. COORDINATE WITH PROJECT MANUAL. SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. AT COMPLETION OF THE PROJECT THE SIGNS SHALL BECOME PROPERTY OF THE CITY OF FRANKLIN STREET DEPARTMENT. THE SIGNS SHALL BE IN LIKE NEW CONDITION. PROPER WORKING ORDER WITH ALL FACTORY MANUALS. A WARRANTY SHALL BE CONVEYED TO THE CITY OF FRANKLIN AT THE COMPLETION OF THE PROJECT FOR A PERIOD EQUAL TO THAT OF THE ORIGINAL AS FURNISHED BY THE MANUFACTURER.)	EACH	1	1	2		\$21,000.00	\$42,000.00
	716-13-01	SPRAY THERMO PAVEMENT MARKING (60 MIL), (4" LINE - SSWL, SSWL, DSYL, SBYL & SBWL)	LIN. MI.	3.24	1.83	5.07		\$3,100.00	\$15,717.00
	716-13-02	SPRAY THERMO PAVEMENT MARKING (60 MIL), (6" LINE - SSWL-EDGE LINE)	LIN. MI.	0.88	0.49	1.37		\$3,600.00	\$4,932.00
	716-02-05	PLASTIC PAVEMENT MARKING (STON LINE)	L.F.	143	81	224		\$16.00	\$3,584.00
	716-02-06	PLASTIC PAVEMENT MARKING TURN LANE ARROW (LEFT OR RIGHT)	EACH	11	2	13		\$160.00	\$2,080.00
	716-02-09	PLASTIC PAINT MARKING (LONGITUDINAL, CROSS-WALK). (QUANTITY IS CALCULATED FROM FACE OF CURB TO FACE OF CURB)	L.F.	244	138	382		\$42.00	\$16,044.00
	716-04-01	PLASTIC PAVEMENT MARKING - (STRAIGHT-TURN ARROW)	EACH	2	0	2		\$210.00	\$420.00
	716-04-05	PLASTIC PAVEMENT MARKING - (STRAIGHT ARROW)	EACH	1	3	4		\$130.00	\$520.00
	716-04-15	PLASTIC PAVEMENT MARKING - (BIKE SYMBOL/ARROW)	EACH	5	3	8		\$580.00	\$4,640.00
(10)	716-05-01	PAINTED PAVEMENT MARKING (4" LINE, SSWL, SSWL, DSYL, SBYL & SBWL)	LIN. MI.	4.39	2.47	6.86		\$1,600.00	\$10,976.00
(10)	716-05-05	PAINTED PAVEMENT MARKING (STON LINE)	L.F.	143	81	224		\$6.50	\$1,456.00
(10)	716-05-30	PAINTED PAVEMENT MARKING (6" LINE)	LIN. MI.	0.64	0.36	1.00		\$1,700.00	\$1,700.00
	717-01	MOBILIZATION	L.S.	1	0	1		\$595,000.00	\$595,000.00

(12)	722-01.02	FIELD OFFICE (TYPE 2) (ALLOWANCE)	L.S.	1	0	1	\$25,000.00	\$25,000.00
(2)	740-11.03	TEMPORARY SEDIMENT TUBE 18 INCH (TO BE USED FOR EROSION CONTROL OF "V-DITCH" AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE)	L.F.	1,855	1,045	2,900	\$3.50	\$10,150.00
	771-30.28	TEMPORARY ASPHALT (COLD MIX, TO BE USED AS DIRECTED BY THE ENGINEER)	S.F.	4,297	2,703	7,500	\$3.00	\$22,500.00
	793-14.10	CORE DRILL CONCRETE STRUCTURES (6" TO 12" DIA., MANHOLE, CATCHBASIN, UTILITY MANHOLE)	EACH	5	5	10	\$160.00	\$1,600.00
(7)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	78	44	122	\$22.00	\$2,684.00
	801-01.17	BONDED FIBER MATRIX HYDROMULCH (WITH TEMPORARY SEED)	UNIT	78	44	122	\$74.00	\$9,028.00
	801-03	WATER SEEDING & SODDING)	M.G.	182	102	284	\$31.00	\$8,804.00
(8)	803-01	SODDING (NEW SOD, INSTALLATION SHALL BE INSTALLED ON TOPSOIL, TOPSOIL SHALL HAVE A MINIMUM DEPTH OF 6 INCHES)	S.Y.	8,685	4,893	13,578	\$2.50	\$33,945.00
(7)	805-12.03	EROSION CONTROL, BLANKET (TYPE III)	S.Y.	2,500	2,500	5,000	\$2.50	\$12,500.00
SUB-TOTAL								\$5,868,076.48

ROADWAY FOOTNOTES:

- (1) TO BE USED AS DIRECTED FOR STORM DRAIN CROSSINGS
- (2) ITEM 209-08.02 & 740-11.05 MAY BE INTERCHANGED AS APPROPRIATE BASED ON CONSTRUCTION ACTIVITIES
- (3) TO BE USED AND LOCATED AS DIRECTED BY THE ENGINEER
- (4) TO BE USED FOR CONSTRUCTION OF THE BOX CULVERT UTILIZED AS PART OF THE STORM DRAINAGE SYSTEM
- (5) CURB IRON TO HAVE A SOLID BACK PER CITY OF FRANKLIN REQUIREMENTS
- (6) TO BE USED AS DIRECTED BY THE ENGINEER NORTH OF CLAUDE YATES DRIVE
- (7) TO BE USED AS DIRECTED BY THE ENGINEER
- (8) COORDINATE WITH DESIGN DOCUMENTS PREPARED BY E&G
- (9) PRIOR TO REMOVAL, THE CONTRACTOR SHALL SUBMIT A PLAN OF OPERATIONS FOR APPROVAL BY THE ENGINEER
- (10) TO BE USED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER
- (11) CITY ORDINANCE REQUIRES THAT OFF DUTY FRANKLIN POLICE OFFICERS BE USED FOR SPECIAL EVENTS AND CONSTRUCTION ACTIVITIES
- (12) THE CITY CURRENTLY HAS A BUILDING THAT MAY BE AVAILABLE FOR USE FOR PROJECT MEETINGS. THEREFORE, THEY RESERVE THE OPTION TO USE THAT FACILITY FOR MEETINGS. IF THE CITY BUILDING IS UTILIZED AS A MEETING SPACE, A PROPOSAL REQUEST WILL BE ISSUED FOR ITEMS OF WORK NECESSARY TO BRING THE FACILITY INTO CONFORMANCE WITH THE FIELD OFFICE SPECIFICATION.
- (13) COORDINATE WITH ITEM NO. 712-99.92
- (14) TO BE USED FOR BACKFILL/LARGE UTILITY TRENCH EXCAVATIONS WITH FILTER STONE AS DIRECTED BY THE ENGINEER
- (15) INCLUDES 4714 TONS FOR MAINTENANCE OF TRAFFIC
- (16) INCLUDES 795 TONS FOR MAINTENANCE OF TRAFFIC. INCLUDES 160 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION.
- (17) INCLUDES 466 TONS FOR MAINTENANCE OF TRAFFIC. INCLUDES 33 TONS NON-PARTICIPATING FOR WATER AND SEWER CONSTRUCTION.
- (18) ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.

ESTIMATED SIGNALIZATION QUANTITIES

FOOTNOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATING STATE/FEDERAL AL PIN 108409.000)	EST QTY. (NON-PARTICIPATING CITY SECTION)	TOTAL EST QTY.	UNIT COST	TOTAL
(1)	712-99.92	TRAFFIC CONTROL (SIGNALIZATION, SCHOOL FLASHER AND SIGNAL COMMUNICATION INSTALLATION)	L.S.	1	0	1	\$3,790.00	\$3,790.00
(10)	713-16.20	SIGNS (OVERHEAD STREET NAME SIGNS)	EACH	12	0	12	\$3,000.00	\$36,000.00
(6)	713-16.22	SIGNS (R10-12, 24"x30")	EACH	3	0	3	\$270.00	\$810.00
	713-16.23	SIGNS (SPEED LIMIT 20 MPH WHEN FLASHING, 48" X 36") (INCLUDES FLASHER AND BEACON)	EACH	2	0	2	\$1,120.00	\$2,240.00
	725-02.06	VIDEO ENCODER	EACH	1	0	1	\$2,750.00	\$2,750.00
(15)	725-02.25	FIELD HUB SWITCH (INSTALL ONLY)	EACH	4	0	4	\$2,440.00	\$9,760.00
(17)	725-03.80	CC TV CAMERA SYSTEM	EACH	1	0	1	\$4,840.00	\$4,840.00
(18)	725-05.01	MODEL 366A CABINET WITH CAMERA CONTROLLER	EACH	1	0	1	\$5,710.00	\$5,710.00
	725-05.06	FUSION SPLICE	EACH	16	0	16	\$560.00	\$8,960.00
(21)	725-10.36	PRE-TERMINATED FIBER OPTIC CABLE ASSEMBLY (12 COUNT SMFO)	EACH	6	0	6	\$670.00	\$4,020.00
	725-10.64	FIBER OPTIC CABLE (12 COUNT SMFO)	L.F.	5,400	0	5,400	\$2.70	\$14,580.00

	725-20.54	CABLE (1/2" #8 AWG)	L.F.	120	0	0	120	\$1.20	\$144.00
	725-20.55	CABLE (1/2" #6 AWG, INCLUDES 650 L.F. PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	L.F.	825	0	0	825	\$1.40	\$1,155.00
(9)	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	L.S.	1	0	0	1	\$2,600.00	\$2,600.00
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	15	0	0	15	\$1,000.00	\$15,000.00
	730-02.17	SIGNAL HEAD ASSEMBLY (150 WITH BACKPLATE, 3 LEFT)	EACH	3	0	0	3	\$1,580.00	\$4,740.00
	730-03.21	INSTALL PULL BOX (TYPE B, INCLUDES 2 EACH PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	EACH	20	0	0	20	\$470.00	\$9,400.00
	730-03.23	INSTALL PULL BOX (FIBER OPTIC-TYPE A)	EACH	9	0	0	9	\$1,480.00	\$13,320.00
	730-03.24	INSTALL PULL BOX (FIBER OPTIC-TYPE B)	EACH	4	0	0	4	\$1,630.00	\$6,520.00
(219)	730-03.25	INSTALL PULL BOX (ELECTRICAL-TYPE C)	EACH	2	0	0	2	\$470.00	\$940.00
	730-05.01	ELECTRICAL SERVICE CONNECTION (INCLUDES 2 EACH PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	EACH	5	0	0	5	\$4,160.00	\$20,800.00
	730-08.01	SIGNAL CABLE - 3 CONDUCTOR	L.F.	300	0	0	300	\$1.10	\$330.00
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR (INCLUDES 125 L.F. PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	L.F.	825	0	0	825	\$1.30	\$1,072.50
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	1,900	0	0	1,900	\$1.50	\$2,850.00
(11)	730-08.10	SIGNAL CABLE (EMERGENCY PREEMPTION CABLE)	L.F.	700	0	0	700	\$3.10	\$2,170.00
	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	70	0	0	70	\$9.50	\$665.00
	730-12.02	CONDUIT 2" DIAMETER (PVC, INCLUDES 200 L.F. PARTICIPATING FOR SCHOOL FLASHER INSTALLATION)	L.F.	1,260	0	0	1,260	\$9.99	\$12,474.00
	730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.	1,920	0	0	1,920	\$11.25	\$21,600.00
(4)	730-13.03	VEHICLE DETECTOR (4 - CHANNEL, RACK MOUNT)	EACH	6	0	0	6	\$500.00	\$3,000.00
	730-13.06	VEHICLE DETECTOR (OPTICALLY ACTIVATED PRIORITY CONTROL)	EACH	4	0	0	4	\$2,450.00	\$9,800.00
(5)	730-13.08	VEHICLE DETECTOR (RADIO/GPS ACTIVATED PRIORITY CONTROL)	EACH	2	0	0	2	\$5,610.00	\$11,220.00
	730-14.01	SHIELDED DETECTOR CABLE	L.F.	3,200	0	0	3,200	\$1.10	\$3,520.00
	730-14.02	SAW SLOT	L.F.	1,900	0	0	1,900	\$4.10	\$7,790.00
	730-14.03	LOOP WIRE	L.F.	3,400	0	0	3,400	\$0.75	\$2,550.00
(13)	730-15.07	CABINET (FLASHING BEACON, FOR SCHOOL FLASHER INSTALLATION)	EACH	2	0	0	2	\$1,160.00	\$2,320.00
(20)	730-15.11	MODIFY CABINET (FO COMMUNICATION)	EACH	1	0	0	1	\$830.00	\$830.00
(12, 13)	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	2	0	0	2	\$26,410.00	\$52,820.00
(27)	730-16.07	EIGHT PHASE ACTIVATED CONTROLLER	EACH	2	0	0	2	\$4,100.00	\$8,200.00
(25)	730-16.03	CONTROLLER (FLASHING BEACON, FOR SCHOOL FLASHER INSTALLATION)	EACH	2	0	0	2	\$1,160.00	\$2,320.00
(16)	730-22.36	CCTV POLE 50' POLE HEIGHT/LOWERING DEVICE	EACH	1	0	0	1	\$18,350.00	\$18,350.00
(3)	730-23.30	PEDESTAL POLE (STANDARD)	EACH	7	0	0	7	\$1,460.00	\$10,220.00
(3)	730-23.36	CANTILEVER SIGNAL SUPPORT (1 ARM @ 30')	EACH	1	0	0	1	\$10,840.00	\$10,840.00
(3)	730-23.37	CANTILEVER SIGNAL SUPPORT (1 ARM @ 35')	EACH	2	0	0	2	\$11,880.00	\$23,760.00
(3)	730-23.39	CANTILEVER SIGNAL SUPPORT (1 ARM @ 45')	EACH	2	0	0	2	\$12,620.00	\$25,240.00
(14)	730-23.64	CANTILEVER SIGNAL SUPPORT (1 ARM @ 30', FOR SCHOOL FLASHER INSTALLATION)	EACH	2	0	0	2	\$10,840.00	\$21,680.00
(317)	730-23.97	CANTILEVER SIGNAL SUPPORT (1 ARM @ 50')	EACH	1	0	0	1	\$12,910.00	\$12,910.00
(317)	730-23.98	CANTILEVER SIGNAL SUPPORT (1 ARM @ 55')	EACH	1	0	0	1	\$14,920.00	\$14,920.00
(317)	730-23.99	CANTILEVER SIGNAL SUPPORT (1 ARM @ 60')	EACH	1	0	0	1	\$17,340.00	\$17,340.00
(8)	730-26.02	PEDESTRIAN PUSHBUTTON WITH 15" SIGN	EACH	12	0	0	12	\$310.00	\$3,720.00
	730-26.05	COUNTDOWN PEDESTRIAN SIGNAL	EACH	12	0	0	12	\$630.00	\$7,560.00
(3)	920-10.04	PEDESTRIAN PUSHBUTTON POST (STANDARD)	EACH	1	0	0	1	\$840.00	\$840.00
(22, 24, 36)	920-12.04	ETHERNET/FIBER CONVERTER	EACH	6	0	0	6	\$970.00	\$5,820.00
(23)	920-10.06	TEMPORARY TRAFFIC SIGNAL POLES	L.S.	1	0	0	1	\$4,370.00	\$4,370.00
SUB-TOTAL									\$491,170.50

SIGNAL/COMMUNICATION FOOTNOTES:

(1) ITEM INCLUDES ALL TRAFFIC CONTROL FOR INSTALLATION OF TRAFFIC SIGNAL AS NOTED ON THE PLAN SHEETS AND AS REQUIRED TO COMPLETE THE PROJECT.

(2) THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHANGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE FOR ITEM NO 730-05.01 FOR PAYMENT BY THE CONTRACTOR. ITEM INCLUDES MIL BANK ELECTRICAL SERVICE PEDESTAL MODEL NO CP9B51160A225L1, AS INDICATED ON THE PLANS. COORDINATE COLOR OF MIL BANK WITH CITY PRIOR TO ORDERING.

- (3) ITEM INCLUDES SUPPORT POLE, INSTALLATION OF SUPPORT POLE AND FOUNDATION
- (4) ITEM INCLUDES FURNISHING AND INSTALLING A OPTICOM, VEHICLE DETECTION MODEL 721 DETECTOR, EMERGENCY PREPAPT UNIT AND ALL ANCLARY WIRING AND SENSORS NEEDED TO PROVIDE EMERGENCY VEHICLE PREBATION AS INDICATED ON THE PLANS
- (5) ITEM INCLUDES FURNISHING AND INSTALLING ALL WIRING AND SENSORS NEEDED TO PROVIDE OPTICOM VEHICLE DETECTION (RADIOGPS ACTIVATED PRIORITY CONTROL) MODEL 764 PHASE SELECTOR, MODEL 1012 GPS RADIO UNIT, MODEL 1050 GPS RADIO ANTENNA, MODEL 768 AUXILIARY INTERFACE PANEL, MODEL 1050 GPS RADIO ANTENNA, MODEL 768 AUXILIARY INTERFACE PANEL, MODEL 1050 GPS INSTALLATION CABLE, MODEL 1000 GPS/IR/ARBEAD CARD RACK, MODEL 138 DETECTOR CABLE, AND MODEL 711 EXTERNAL DETECTORS AT EACH INTERSECTION, TO BE MEASURED AND PAID PER INTERSECTION. ITEM INCLUDES ALL MATERIALS REQUIRED TO IMPLEMENT EMERGENCY OPERATIONS CONTROL PER CITY OF FRANKLIN STANDARDS. COORDINATE WITH SIGNAL LAYOUT SHEET FOR DETECTOR POSITIONS AND PHASE SELECTOR ASSIGNMENTS. DETECTOR CABLE MEASURED AND PAID FOR UNDER SEPARATE ITEM 79-08.10. APPROXIMATE REQUIRED MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, ONE (1) EACH OF PHASE SELECTOR, RACK AND POWER SUPPLY, AND TWO (2) EACH OF EXTERNAL DETECTORS.
- (6) ITEM INCLUDES MOUNTING OF SIGN OVERHEAD ON MAST ARM. OVERHEAD SIGNS TO BE MOUNTED USING CABLE CLAMPS. SCREWING SIGNS TO MAST ARMS WILL NOT BE ACCEPTABLE
- (7) ITEM TO INCLUDE VIBRATION DAMPENING DEVICE PER TDOT STD DWG. T-SG-9.
- (8) ITEM INCLUDES FURNISHING AND INSTALLING PEDESTRIAN PUSHBUTTONS AND SIGNS
- (9) ITEM INCLUDES THE REMOVAL OF SIGNAL EQUIPMENT AT THE INTERSECTIONS OF HILLSBORO ROAD AND JOEL CHEEK, HILLSBORO ROAD, AND SCHOOL, FLASHERS AS INDICATED ON PLANS.
- (10) OVERHEAD STREET NAME SIGNS TO BE INTERNALLY ILLUMINATED STREET NAME BLACES WITH 3M DIAMOND GRADE REFLECTIVE SHEETING.
- (11) TO BE OPTICOM DETECTOR CABLE MODEL 138
- (12) SIEMENS, EAGLE ELS1014 SIZE "P-4 UPS" BASE MOUNTED CABINET WITH INTERGRATED UPS COMPARTMENT. EAGLE LOAD BAYS NEMA TS-1, TF4008/TF4016 SERIES, SHALL BE PER GENERAL NOTE 5B, SHEET 18F. A TYPICAL P CABINET WITH THE UPS HOUSING. UPS WILL BE INCLUDED
- (13) CABINET TO BE PAINTED FRANKLIN GREEN
- (14) INCLUDES POLE, BASE, FOOTINGS, WIRING, INSTALLATION, AND ALL COMPONENTS NECESSARY FOR A FULLY OPERATIONAL, SCHOOL ZONE FLASHING WARNING BEACON
- (15) THE CONTRACTOR IS TO INSTALL "FIELD HUB SWITCH" AS SUPPLIED BY THE CITY OF FRANKLIN
- (16) INCLUDES CCTV POLE, FOUNDATION, LOWERING DEVICE AND 4'X4' CONCRETE PAD LOCATED BELOW THE FRONT OF THE POLE MOUNTED CABINET. COORDINATE POLE COLOR WITH CITY PRIOR TO ORDERING.
- (17) VICON DOME CAMERA MODEL # SVFT-PR-36, WALL MOUNT PRESSURIZED HOUSING MODEL SVFT-PR-WA1
- (18) TREEHAVEN, IP FIELD BOX RACK MOUNT WITH REMOTE DIAGNOSTIC, RVSFB120PR, DR90F CABLE AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SHALL BE INCLUDED WITH EACH CABINET. COORDINATE COLOR OF CABINET WITH CITY PRIOR TO ORDERING.
- (19) THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE CCTV CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE FOR ITEM NO. 79-05.01 FOR PAYMENT BY THE CONTRACTOR. ITEM INCLUDES MILBANK ELECTRICAL SERVICE PEDestal MODEL NO. CP365110A22SL1, AS INDICATED ON THE

PLANS. COORDINATE COLOR OF MILBANK WITH CITY PRIOR TO ORDERING.

(20) INCLUDES MODIFICATIONS AND ADDITIONS TO HILLSBORO RD. AND MACK HATCHER PKWY. CONTROLLER AS NEEDED.

(21) CITY OF FRANKLIN COMPATIBLE FIBER CONNECTION PATCH CABLE AND DISTRIBUTION PANEL SHALL BE INSTALLED IN THE CABINET. EACH TO INCLUDE 50' OF SLACK.

(22) ITEM TO BE AN ETHERNET / FIBER CONVERTER 4 PORT 10 / 100 BASE-TX PLUS APPROVED BY THE CITY OF FRANKLIN. ALSO TO INCLUDE A 12V 40VA TRANSFORMER APPROVED BY THE CITY OF FRANKLIN. WITH EACH CONVERTER TO BE INSTALLED IN THE TRAFFIC SIGNAL CABINET AT HILLSBORO ROAD AND JOEL CREEK BOULEVARD, HILLSBORO ROAD AND CLAUDE YATES DRIVE, AND HILLSBORO ROAD AND MACK HATCHER PARKWAY.

(23) ITEM IS FOR TEMPORARY POLES TO BE INSTALLED DURING PHASE 2 OF ROADWAY TRAFFIC CONTROL. ITEM ALSO INCLUDES NECESSARY SPAN WIRE FOR TEMPORARY TRAFFIC SIGNAL CONDITION.

(24) ITEM TO BE AN ETHERNET / FIBER CONVERTER 4 PORT 10 / 100 BASE-TX PLUS APPROVED BY THE CITY OF FRANKLIN. ALSO TO INCLUDE A 12V TRANSFORMER, APPROVED BY THE CITY OF FRANKLIN WITH EACH CONVERTER TO BE INSTALLED IN CCTV CABINET.

(25) FLASHER CONTROLLER TO BE NTCIP COMPLIANT IN ORDER TO PROVIDE THE COMPATIBILITY OF BEING CONTROLLED AT THE CITY OF FRANKLIN TRAFFIC OPERATIONS CENTER.

(26) ITEM TO BE AN ETHERNET / FIBER CONVERTER 4 PORT 10 / 100 BASE-TX PLUS APPROVED BY THE CITY OF FRANKLIN. ALSO TO INCLUDE A 12V 40VA TRANSFORMER, APPROVED BY THE CITY OF FRANKLIN WITH EACH CONVERTER TO BE INSTALLED IN SCHOOL FLASHER CCTV CABINETS.

(27) SIEMENS EAGLE M50 SERIES TRAFFIC CONTROLLER - EPAC108M52EPAC368M52

TABULATED STREETScape AND ELECTRICAL QUANTITIES

FOOTNOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPANT STATE/REORDER AL PIN 108409.00)	EST QTY. (NON-PARTICIPANT NG, CITY SECTION)	TOTAL EST QTY.	UNIT COST	TOTAL
		DEMOLITION AND REMOVAL						
		STREETScape						
		PAVERS						
(1)	202-01.57	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (MISCELLANEOUS SITE ITEMS REMOVAL)	LS	1	0	1	\$25,000.00	\$25,000.00
(1)	716-10.30	DETECTABLE WARNING MAT (ADA COMPLIANT DETECTABLE WARNING MAT ON 8" THICK CONCRETE BASE)	SF	140	0	140	\$65.00	\$9,100.00
		PORTLAND CEMENT CONCRETE PAVEMENT						
(1)	701-01.02	Concrete Sidewalk (6")	SF	10,157	12,868	23,025	\$6.00	\$138,150.00
(1)	701-01.10	Concrete Sidewalk (8")	SF	2,378	4,390	6,768	\$7.50	\$50,760.00
		MISCELLANEOUS SITE IMPROVEMENTS						
(1)	713-16.22	SIGNS (STREETScape ADD-ONS TO ITEMS 713-11.02 through 713-13.03)	LS	1	0	1	\$4,000.00	\$4,000.00
(1)	713-16.21	SIGNS (GATEWAY SIGNS)	LS	1	0	1	\$160,000.00	\$160,000.00
(1)	713-16.51	REMOVE AND REPLACE SIGN (RELOCATION OF SIGNS AT REBEL MEADOWS, APPROX. STATIONS 246+44 AND 256+72)	LS	1	0	1	\$18,000.00	\$18,000.00
(1)	713-16.52	REMOVE AND REPLACE SIGN (RELOCATION OF SIGN AT CHESTNUT BEND, APPROX. STA. 246+90)	LS	1	0	1	\$18,000.00	\$18,000.00
(1)	713-16.53	NEW SIGN (AT ORLEANS ESTATES, APPROX. STATION 246+95)	LS	1	0	1	\$29,000.00	\$29,000.00
		IRRIGATION						

(1),(3)	721-01-04	IRRIGATION SYSTEM	LS	1	0	0	1	\$9,000.00	\$9,000.00
(1)	795-09-01	3/4" WATER SERVICE METER ASSEMBLY (ALLOWANCE, INCLUDING \$3,490 FOR CITY IRRIGATION WATER METER FEES)	EA	1	0	0	1	\$10,000.00	\$10,000.00
LANDSCAPE WORK									
(1)	203-04-01	PLACING AND SPREADING SOIL FOR LANDSCAPING (PLANTING SOIL)	CY	146	0	0	146	\$601.00	\$8,760.00
(1)	802-01-10	TREE (ACER RUBRUM - RED SUNSET)	EA	21	0	0	21	\$370.00	\$7,770.00
(1)	802-01-11	TREE (ACER SACCHARUM LEGACY)	EA	36	0	0	36	\$370.00	\$13,320.00
(1)	802-01-12	TREE (NYSSA SYLVATICA)	EA	15	0	0	15	\$720.00	\$10,800.00
(1)	802-01-13	TREE (QUERCUS PHELLOS)	EA	49	0	0	49	\$390.00	\$19,110.00
(1)	802-01-14	TREE (QUERCUS PARVIFOLIA 'ALLEE')	EA	11	0	0	11	\$370.00	\$4,070.00
(1)	802-01-15	TREE (ZELKOVA SERRATA 'VILLAGE GREEN')	EA	18	0	0	18	\$400.00	\$7,200.00
(1)	802-01-16	TREE (PINUS STROBUS)	EA	18	0	0	18	\$230.00	\$4,140.00
(1)	802-03-14	SHRUB (ITEA VIRGINICA 'LITTLE HENRY')	EA	273	0	0	273	\$38.00	\$10,374.00
(1)	802-03-15	SHRUB (ROSA 'KNOCKOUT')	EA	31	0	0	31	\$37.00	\$1,147.00
(1)	802-04-92	GROUND COVER (HEMEROCALLIS 'FRANKLY SCARLET')	EA	51	0	0	51	\$10.00	\$510.00
(1)	802-04-93	GROUND COVER (HEMEROCALLIS 'LEEBA ORANGE CRUSH')	EA	626	0	0	626	\$13.00	\$8,138.00
(1)	802-04-94	GROUND COVER (HEMEROCALLIS 'STAR STRUCK')	EA	585	0	0	585	\$10.00	\$5,850.00
(1)	802-04-95	GROUND COVER (LIRIOPE MUSCARI 'BIG BLUE')	EA	599	0	0	599	\$7.00	\$4,193.00
(1)	802-07-01	FLOWER (NARCISSUS 'CARLTON')	EA	1,005	0	0	1,005	\$1.00	\$1,005.00
(1)	802-07-02	FLOWER (NARCISSUS 'STAINLESS')	EA	800	0	0	800	\$1.00	\$800.00
STREET LIGHTING									
(2)	714-03-01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	LF	5,208	3,221	8,429	\$3.80	\$32,030.20	
(2)	714-03-02	DIRECT BURIAL CONDUIT (3" PVC, SCHEDULE 40)	LF	5,619	3,017	8,636	\$4.60	\$39,725.60	
(2)	714-03-04	DIRECT BURIAL CONDUIT (3/4" PVC, SCHEDULE 40)	LF	233	20	253	\$3.20	\$809.60	
(2)	714-03-15	TRENCH AND BACKFILL, IN STREET	LF	431	140	571	\$45.00	\$25,695.00	
(2)	714-03-16	TRENCH AND BACKFILL, IN SIDEWALK	LF	5,025	2,944	7,969	\$7.00	\$55,783.00	
(2)	714-03-17	TRENCH AND BACKFILL, IN ASPHALT AND LAWN AREAS WITH REPAIR	LF	268	58	326	\$45.00	\$14,670.00	
(2)	714-04-05	INNERDUCT, 1" CORRUGATED HDPE WITH PULL STRING	LF	11,776	6,004	17,780	\$1.10	\$19,558.00	
(2)	714-05-09	PULLBOX, 24" L X 13" W X 18" D, ELECTRIC LOGO	EA	1	1	2	\$470.00	\$940.00	
(2)	714-05-10	JUNCTION BOX, 6" X 6" X 6" DEEP	EA	3	1	4	\$700.00	\$2,800.00	
(2)	714-05-12	FIBER OPTIC PULLBOX TYPE A, 36" L X 36" W X 12" D, CONFFLOC LOGO	EA	5	3	8	\$1,480.00	\$11,840.00	
(2)	714-05-13	FIBER OPTIC PULLBOX TYPE B, 49" L X 32" W X 36" D, CONFFLOC LOGO	EA	3	0	3	\$1,630.00	\$4,890.00	
(2)	714-05-14	TRAFFIC SIGNAL MANHOLE, 4'-0" SQUARE X 4'-0" DEEP	EA	1	0	1	\$7,880.00	\$7,880.00	
(2)	714-06-02	CABLE (1/2" # 12 AWG)	LF	36	60	96	\$0.95	\$91.20	
(2)	714-06-03	CABLE (1/2" # 10 AWG)	LF	3,725	114	3,839	\$1.00	\$3,839.00	
(2)	714-06-04	CABLE (1/2" # 8 AWG)	LF	14,227	9,246	23,473	\$1.20	\$28,167.60	
(2)	714-06-06	CABLE (1/2" # 4 AWG)	LF	11,540	6,838	18,378	\$1.70	\$31,242.60	
(2)	714-06-08	CABLE (1/2" # 30 AWG)	LF	413	45	458	\$4.50	\$2,061.00	
(2)	714-06-09	TRACER WIRE, #14 AWG SOLID	LF	5,483	3,002	8,485	\$0.75	\$6,363.75	
(2),(4)	714-08-09	LIGHT POLE MATERIAL, ONLY, FIXTURE TYPE A	EA	36	19	55	\$8,740.00	\$480,700.00	
(2),(5)	714-08-10	LIGHT POLE MATERIAL, ONLY, FIXTURE TYPE B	EA	2	1	3	\$8,780.00	\$26,340.00	
(2)	714-08-14	175 WATT PULSE START METAL HALIDE SPARE LAMP	EA	10	0	10	\$34.50	\$345.00	
(2)	714-08-15	175 WATT PULSE START METAL HALIDE SPARE BALLAST	EA	10	0	10	\$160.00	\$1,600.00	
(2)	714-08-20	LIGHT POLE FOUNDATION, FIXTURE TYPES A AND B, (INCLUDES 12 X12 X18" PULL BOX)	EA	38	20	58	\$1,700.00	\$98,600.00	
(2)	714-08-21	LIGHT POLE INSTALLATION, FIXTURE TYPES A AND B	EA	38	20	58	\$800.00	\$46,400.00	
(2)	714-09-09	GRADE LEVEL, SIGN LIGHTING FIXTURE	EA	2	2	4	\$1,210.00	\$4,840.00	
(2),(6)	714-09-10	GRADE LEVEL, ENTRANCE WALL LIGHTING FIXTURE	EA	8	0	8	\$1,210.00	\$9,680.00	
(2)	714-12-09	LIGHTING CONTROL, PANEL, 200 AMP	EA	2	1	3	\$13,610.00	\$40,830.00	
(2)	714-25-22	CONDUIT RISER POLE STUB-UP, CONFFLOC	EA	1	0	1	\$190.00	\$190.00	
(2)	714-25-30	ELECTRICAL, SIGN SERVICE DEMOLITION	EA	0	1	1	\$350.00	\$350.00	
ELECTRICAL DISTRIBUTION									
(2)	790-42-08	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	LF	0	25,088	25,088	\$2.60	\$65,228.80	
(2)	790-42-09	DIRECT BURIAL CONDUIT (3" PVC, SCHEDULE 40)	LF	0	21,717	21,717	\$3.40	\$73,837.80	
(2)	790-42-10	DIRECT BURIAL CONDUIT (4" PVC, SCHEDULE 40)	LF	0	17,210	17,210	\$4.10	\$70,561.00	
(2)	790-42-13	ENCASED CONDUIT 2-4" PVC SCHEDULE 40	LF	0	1,906	1,906	\$33.00	\$62,898.00	

(2)	790-42-14	ENCASED CONDUIT 3-4" PVC SCHEDULE 40	LF	0	137	137	\$35.50	\$4,863.50
(2)	790-42-15	ENCASED CONDUIT 4-4" PVC SCHEDULE 40	LF	0	230	230	\$38.00	\$8,740.00
(2)	790-42-16	ENCASED CONDUIT 5-4" PVC SCHEDULE 40	LF	0	92	92	\$41.00	\$3,772.00
(2)	790-42-18	ENCASED CONDUIT 2-6" PVC SCHEDULE 40	LF	0	491	491	\$41.00	\$20,131.00
(2)	790-42-19	ENCASED CONDUIT 4-6" PVC SCHEDULE 40	LF	0	3,976	3,976	\$57.00	\$226,652.00
(2)	790-42-21	MTEMC RISER POLE CONDUIT 1-2" (MTEMC DWG RP-1)	LF	0	60	60	\$17.00	\$1,020.00
(2)	790-42-22	MTEMC RISER POLE CONDUIT 1-3" (MTEMC DWG RP-1)	LF	0	67	67	\$23.00	\$1,541.00
(2)	790-42-23	MTEMC RISER POLE CONDUIT 1-4" (MTEMC DWG RP-1)	LF	0	173	173	\$26.00	\$4,498.00
(2)	790-42-24	MTEMC ENCASED PRIMARY RISER POLE CONDUIT 2-6" (MTEMC DWG RP-3)	LF	0	221	221	\$82.00	\$18,122.00
(2)	790-42-27	RISER POLE CONDUIT STUB-UP - 2" CONDUIT	EA	0	8	8	\$210.00	\$1,680.00
(2)	790-42-28	RISER POLE CONDUIT STUB-UP - 3" CONDUIT	EA	0	1	1	\$230.00	\$230.00
(2)	790-42-29	RISER POLE CONDUIT STUB-UP - 4" CONDUIT	EA	0	4	4	\$270.00	\$1,080.00
(2)	790-42-30	CATV PEDESTAL MAKE READY	EA	0	40	40	\$370.00	\$14,800.00
(2)	790-42-31	TELEPHONE PEDESTAL MAKE READY	EA	0	46	46	\$370.00	\$17,020.00
(2)	790-42-41	TRENCH TYPE A	LF	0	3,973	3,973	\$61.00	\$242,355.00
(2)	790-42-42	TRENCH TYPE B	LF	0	833	833	\$57.00	\$47,481.00
(2)	790-42-43	TRENCH TYPE C	LF	0	985	985	\$40.385.00	\$40,385.00
(2)	790-42-44	TRENCH TYPE D	LF	0	8,789	8,789	\$46.50	\$408,688.50
(2)	790-42-45	TRENCH TYPE S	LF	0	4,380	4,380	\$12.50	\$54,750.00
(2)	790-43-46	PULL BOX, 36"L X 24"W X 18" D, MTEMC-ELECTRIC LOGO	EA	0	19	19	\$1,460.00	\$27,740.00
(2)	790-43-47	PULL BOX, 48"L X 30"W X 36" D, MTEMC-ELECTRIC LOGO	EA	0	5	5	\$1,750.00	\$8,750.00
(2)	790-43-50	PULL BOX, 48"L X 30"W X 18" D, CATV - COMCAST LOGO	EA	0	15	15	\$1,750.00	\$26,250.00
(2)	790-43-51	PULL BOX, 60"L X 36"W X 18" D, TELEPHONE - AT&T LOGO	EA	0	4	4	\$1,750.00	\$7,000.00
(2)	790-43-52	PRECAST CONCRETE MANHOLE, 12'-0" I, X 6'-0" W X 7'-1" H	EA	0	12	12	\$15,870.00	\$190,440.00
(2)	790-50-03	BOX PAD FOUNDATION "RP-1" FOR MTEMC SINGLE-PHASE TRANSFORMER	EA	0	27	27	\$1,260.00	\$34,020.00
(2)	790-51-06	PRECAST CONCRETE "PAD NO. 1" FOR MTEMC THREE-PHASE TRANSFORMER	EA	0	1	1	\$2,220.00	\$2,220.00
(2)	790-51-07	PRECAST CONCRETE BOX PAD FOR MTEMC THREE PHASE "SECTOR" SWITCH	EA	0	10	10	\$2,530.00	\$25,200.00
(2)	790-51-08	PRECAST CONCRETE "PAD NO. 10" FOR MTEMC "VISTA" SWITCH	EA	0	3	3	\$2,640.00	\$7,920.00
(2)	730-05-04	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 1)	EA	0	5	5	\$2,390.00	\$11,950.00
(2)	730-05-05	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 2)	EA	0	4	4	\$2,390.00	\$9,560.00
(2)	730-05-06	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 3)	EA	0	4	4	\$2,390.00	\$9,560.00
(2)	730-05-07	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 4)	EA	0	1	1	\$2,540.00	\$2,540.00
(2)	730-05-08	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 5)	EA	0	6	6	\$2,580.00	\$14,280.00
(2)	730-05-09	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 6)	EA	0	2	2	\$2,390.00	\$4,780.00
(2)	730-05-10	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 7)	EA	0	1	1	\$3,080.00	\$3,080.00
(2)	730-05-11	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 8)	EA	0	3	3	\$3,340.00	\$10,020.00
(2)	730-05-12	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 9)	EA	0	1	1	\$2,830.00	\$2,830.00
(2)	730-05-13	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 10)	EA	0	1	1	\$2,390.00	\$2,390.00
(2)	730-05-14	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 11)	EA	0	1	1	\$7,500.00	\$7,500.00
(2)	730-05-15	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 12)	EA	0	1	1	\$3,510.00	\$3,510.00
(2)	730-05-16	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 13)	EA	0	1	1	\$3,100.00	\$3,100.00
(2)	730-05-17	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 14)	EA	0	1	1	\$2,360.00	\$2,360.00
(2)	730-05-18	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 15)	EA	0	1	1	\$1,950.00	\$1,950.00
(2)	730-05-19	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 16)	EA	0	1	1	\$2,470.00	\$2,470.00
(2)	730-05-20	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 17)	EA	0	1	1	\$2,400.00	\$2,400.00
(2)	730-05-21	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 18)	EA	0	1	1	\$3,620.00	\$3,620.00
(2)	730-05-22	MODIFY EX. ELEC. CONNECTION (ELECTRICAL SERVICE REVISION TYPE 19)	EA	0	1	1	\$3,860.00	\$3,860.00

(2)	730-05-23	MODIFY EX. ELEC. CONNECTION ELECTRICAL SERVICE REVISION TYPE 20)	EA	0	1	1	\$4,160.00	\$4,160.00
(2)	730-05-24	MODIFY EX. ELEC. CONNECTION ELECTRICAL SERVICE REVISION TYPE 21)	EA	0	1	1	\$2,680.00	\$2,680.00
(2)	730-05-25	MODIFY EX. ELEC. CONNECTION ELECTRICAL SERVICE REVISION TYPE 22)	EA	0	1	1	\$7,730.00	\$7,730.00
SUB-TOTAL								\$3,412,631.15

STREET SCAPE AND ELECTRICAL FOOTNOTES:

- (1) COORDINATE WITH EG&G PROJ #1381 FOR SUPPLEMENTAL MEASUREMENT AND PAYMENT NOTES
- (2) COORDINATE WITH PETER, TSCHEANTZ & ASSOCIATES PROJ #803 FOR SUPPLEMENTAL MEASUREMENT AND PAYMENT NOTES
- (3) BASELINE: BASISTATION 1000 IRRIGATION CONTROL LITER; BASELINE P15 SERIES FLOW SENSOR AND METER; BASELINE: FLOW RECORDER/SENSORS BL-5318; BASELINE: SURGE ARRESTOR
- (4) HOLOPHANE: S ANCHOR BASE FLUTTED TAPERED LIGHT POLES, TSG007665 POLE TYPE A AND TYPE B; HOLOPHANE: FILTER GWLF290-SCAY033; HOLOPHANE: ARM RBC511-C/CSY033; HOLOPHANE: LUMINAIRES MPRD250PMAC4 S-64320; MPRD250PMAC4 S-64320
- (5) HOLOPHANE: S ANCHOR BASE FLUTTED TAPERED LIGHT POLES, TSG007665 POLE TYPE A AND TYPE B; HOLOPHANE: FILTER GWLF290-SCAY033; HOLOPHANE: ARM RBC511-C/CSY033; HOLOPHANE: LUMINAIRES MPRD250PMAC4 S-64320; MPRD250PMAC4 S-64320; AND PHOTOCELL
- (6) HOLOPHANE: ARCH FLOOD LIGHT H710/100MM/ANFL/SM/ISS/SA1R/BD LPT AS

TABULATED WATER AND SEWER

FOOTNOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATI NG, STATE/FEDER AL PIN 108409.00)	EST QTY. (NON-PARTICIPATI NG, CITY SECTION)	TOTAL EST QTY.	UNIT COST	TOTAL
	1W	6IN DIP RESTRAINED JOINT WATER LINE	L.F.	0	285	285	\$84.00	\$23,940.00
	1W	795-01-04 6IN DIP SLIP JOINT WATER LINE	L.F.	0	1,175	1,175	\$81.00	\$95,175.00
	1W	795-01-05 8IN DIP RESTRAINED JOINT WATER LINE	L.F.	0	230	230	\$91.00	\$20,930.00
	1W	795-01-09 12IN DIP RESTRAINED JOINT WATER LINE	L.F.	0	65	65	\$150.00	\$9,750.00
	1W	795-01-15 18IN DIP RESTRAINED JOINT WATER LINE	L.F.	0	1,250	1,250	\$160.00	\$200,000.00
	1W	795-01-16 18IN DIP SLIP JOINT WATER LINE	L.F.	0	1,610	1,610	\$140.00	\$225,400.00
	2W	795-06-03 CONNECT TO 4IN WATER LINE	EACH	0	1	1	\$1,500.00	\$1,500.00
	2W	795-06-04 CONNECT TO 6IN WATER LINE	EACH	0	4	4	\$1,500.00	\$6,000.00
	2W	795-06-05 CONNECT TO 8IN WATER LINE	EACH	0	3	3	\$1,500.00	\$4,500.00
	2W	795-06-07 CONNECT TO 12IN WATER LINE	EACH	0	2	2	\$2,600.00	\$5,200.00
	2W	795-06-10 CONNECT TO 18IN WATER LINE	EACH	0	1	1	\$1,500.00	\$1,500.00
		CUT / CAP EXISTING LINES (ALL SIZES)	EACH	0	3	3	\$690.00	\$2,070.00
		CUT AND CAP 6IN WATER LINE	EACH	0	3	3	\$690.00	\$2,070.00
		CUT AND CAP 8IN WATER LINE	EACH	0	2	2	\$690.00	\$1,380.00
		CUT AND CAP 12IN WATER LINE	EACH	0	8	8	\$1,500.00	\$12,000.00
	4W	795-08-04 6IN GATE VALVE ASSEMBLY	EACH	0	3	3	\$1,900.00	\$5,700.00
	4W	795-08-05 8IN GATE VALVE ASSEMBLY	EACH	0	2	2	\$3,100.00	\$6,200.00
	4W	795-08-08 12IN BUTTERFLY VALVE ASSEMBLY	EACH	0	1	1	\$3,200.00	\$3,200.00
	4W	795-08-09 12IN GATE VALVE ASSEMBLY	EACH	0	1	1	\$3,200.00	\$3,200.00
	4W	795-08-15 18IN BUTTERFLY VALVE ASSEMBLY	EACH	0	4	4	\$5,500.00	\$22,000.00
	5W	795-09-01 3/4IN WATER SERVICE METER ASSEMBLY	EACH	0	29	29	\$1,000.00	\$29,000.00
	5W	795-09-06 4IN WATER SERVICE METER ASSEMBLY (VAULT)	EACH	0	1	1	\$16,000.00	\$16,000.00
	5W	795-09-07 6IN WATER SERVICE METER ASSEMBLY (VAULT)	EACH	0	2	2	\$20,000.00	\$40,000.00
	6W	795-09-09 RELOCATE / RECONNECT SERVICE ASSEMBLY	EACH	0	29	29	\$100.00	\$2,900.00
	7W	795-09-28 3/4IN COPPER SERVICE PIPE	L.F.	0	940	940	\$5.50	\$5,170.00
	7W	795-09-30 3/4IN PEX SERVICE PIPE	L.F.	0	425	425	\$3.00	\$1,275.00
	5W	795-11-02 FIRE HYDRANT ASSEMBLY	EACH	0	6	6	\$2,800.00	\$16,800.00
	2W	795-11-03 RECONNECT FIRE HYDRANT	EACH	0	1	1	\$460.00	\$460.00
	5W	795-11-05 FIRE PROTECTION METER (8" WITH VAULT)	EACH	0	1	1	\$26,000.00	\$26,000.00
	8W	795-12-01 REMOVE FIRE HYDRANT	EACH	0	4	4	\$230.00	\$920.00
	8W	795-12-02 REMOVAL OF EXISTING LINE	LS	0	1	1	\$10,000.00	\$10,000.00

9W	795-13.01	DI FITTINGS	LBS	0	27.780	27.780	\$7.00	\$194,460.00
10	795-14.02	CLASS B CONCRETE	C.Y.	0	75	75	\$180.00	\$11,250.00
10	795-14.05	CONCRETE ENCASMENT/CAP	L.F.	0	160	160	\$36.00	\$5,760.00
11	795-14.08	RESTORE ASPHALT	S.Y.	0	175	175	\$90.00	\$15,750.00
11	795-14.09	RESTORE CONCRETE	S.Y.	0	45	45	\$110.00	\$4,950.00
	795-15.02	12IN STEEL CASING PIPE OPEN CUT METHOD	L.F.	0	80	80	\$90.00	\$7,200.00
	795-15.25	16IN STEEL CASING PIPE OPEN CUT METHOD	L.F.	0	85	85	\$96.00	\$8,160.00
7W	795-15.26	1-1/2IN STEEL CASING PIPE OPEN CUT METHOD	L.F.	0	500	500	\$17.00	\$8,500.00
1S	797-05.51	8IN PVC GRAVITY SEWER 6FT - 6FT DEPTH	L.F.	0	2,345	2,345	\$54.00	\$121,230.00
1S	797-05.52	8IN PVC GRAVITY SEWER 6FT - 12FT DEPTH	L.F.	0	4,310	4,310	\$66.00	\$284,460.00
2S	797-07.02	48IN MANHOLE 4FT - 6FT DEPTH	EACH	0	3	3	\$2,200.00	\$6,600.00
2S	797-07.03	48IN MANHOLE 6FT - 8FT DEPTH	EACH	0	19	19	\$2,900.00	\$55,100.00
2S	797-07.04	48IN MANHOLE 8FT - 10FT DEPTH	EACH	0	3	3	\$3,900.00	\$11,700.00
2S	797-07.05	48IN MANHOLE 10FT - 12FT DEPTH	EACH	0	1	1	\$4,800.00	\$4,800.00
3S	797-07.56	MANHOLE DROP CONNECTION ASSEMBLY	EACH	0	1	1	\$850.00	\$850.00
1S	797-08.05	6" PVC PIPE FOR SERVICE LATERAL	L.F.	0	1,900	1,900	\$19.00	\$36,100.00
3S	797-08.08	6" CLEAN OUT ASSEMBLY	EACH	0	39	39	\$1,100.00	\$42,900.00
4S	797-10.06	CONNECT 6" LATERAL TO SEWER LINE	EACH	0	39	39	\$850.00	\$33,150.00
4S	797-10.09	CONNECT EXISTING 8IN SEWER TO NEW MANHOLE	EACH	0	8	8	\$990.00	\$7,920.00
6S	797-11.25	RETIRE IN PLACE 48" MANHOLE	EACH	0	16	16	\$780.00	\$12,480.00
6S	797-11.35	REMOVE EXISTING SEWER 8IN - 14IN	L.F.	0	70	70	\$17.00	\$1,190.00
7S	797-11.38	BY-PASS PUMPING	L.S.	0	1	1	\$25,000.00	\$25,000.00
11	797-11.39	RESTORE ASPHALT	S.Y.	0	385	385	\$90.00	\$34,650.00
11	797-11.40	RESTORE CONCRETE	S.Y.	0	60	60	\$110.00	\$6,600.00
6S	797-12.01	CUT, CAP AND ABANDON EXISTING 8IN SEWER LINE	EACH	0	6	6	\$1,000.00	\$6,000.00
10	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	0	75	75	\$22.00	\$1,650.00
SUB-TOTAL								\$1,745,450.00

WATER AND SEWER FOOTNOTES:

WATER

FOOTNOTE 1W:

INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEEDING MATERIAL, BACKFILLING, THURUST BLOCKING, CONCRETE DEADMAN, TRACER WIRE, APPURTENANCES, TEMPORARY SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.

FOOTNOTE 2W:

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.

FOOTNOTE 3W:

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAPPING SLEEVE, VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.

FOOTNOTE 4W:

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO FITTINGS, VALVE, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.

FOOTNOTE 5W:

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS EXCEPT FOR SERVICE LINE WHICH IS PAID SEPARATELY FOR EACH FOOT INSTALLED.

FOOTNOTE 6W:

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF EXISTING WATER SERVICE METER ASSEMBLY AND INSTALLING A NEW WATER METER ASSEMBLY AT DESIRED OWNER LOCATION.

FOOTNOTE 7W:

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.

FOOTNOTE 8W:

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF ITEM

FOOTNOTE 9W:

INCLUDES FITTINGS, GLANDS AND RESTRAINT DEVICES DESCRIBED IN POUNDS.

FOOTNOTE 10:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF UNIT OR LUMP SUM ITEM AS SPECIFIED ON BID FORM. PLACEMENT SHALL BE DIRECTED BY THE OWNER OR ENGINEER.

FOOTNOTE 11:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, SETUP AND TRAFFIC CONTROL FOR RESTORING ASPHALT ROAD/DRIVE AND CONCRETE SIDEWALK/GUTTERS NOT IN STATE ROW.

SEWER

FOOTNOTE 1S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDDING, BACKFILLING, APPURTENANCES, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE FOR GRAVITY SEWER LINES. DUCTILE IRON PIPE GRAVITY SEWER LINES SHALL BE EPOXY LINED

FOOTNOTE 2S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR INSTALLATION OF PRECAST MANHOLE BOTHER PREFORMED BASE OR OPEN BOTTOM (DOGHOUSE), INCLUDING BUT NOT LIMITED TO CRUSHED STONE, PIPE TO MANHOLE CONNECTORS, EXCAVATION, BACKFILL, BUTYL RESIN GASKET, MANHOLE STEPS, ASPHALTIC WATERPROOFING, WATERTIGHT FRAME AND COVER, AND TRAFFIC CONTROL.

FOOTNOTE 3S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED AND DETAILED IN THE PLANS AND SPECS.

FOOTNOTE 4S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING SEWER LINE OR MANHOLE AS SPECIFIED ON THE PLANS, INCLUDING TRAFFIC CONTROL.

FOOTNOTE 5S:

INCLUDES ALL LABOR, EQUIPMENT, DISPOSAL OF WASTE MATERIAL, DRILLING HOLES IN BASE FOR PROPER DRAINAGE, REMOVAL OF NECESSARY CASTING, CONE AND BARREL SECTIONS FOR PROPER GRADE AND STONE BACKFILL.

FOOTNOTE 6S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR RETIRE IN PLACE OR REMOVE ITEMS AS SPECIFIED ON THE BID FORM INCLUDING TRAFFIC CONTROL.

FOOTNOTE 7S:

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR INTERNAL OR EXTERNAL POINT REPAIRS AS SPECIFIED IN THE BID FORM.

TABULATED AT&T

FOOTNOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY. (PARTICIPANT STATE/FEDERAL AL PIN 1084092.00)	EST. QTY. (NON-PARTICIPANT NG. CITY SECTION)	TOTAL EST QTY.	UNIT COST	TOTAL
	15	793-13.07 4IN SCHEDULE 40 PVC	L.F.	0	21,100	21,100	\$3.80	\$80,180.00
	16	793-13.12 1 DUCT FORMATION @ 36IN DEPTH	L.F.	0	485	485	\$14.50	\$7,032.50
	16	793-13.17 2 DUCT FORMATION @ 36IN DEPTH	L.F.	0	85	85	\$14.50	\$1,232.50
	16	793-13.22 3 DUCT FORMATION @ 36IN DEPTH	L.F.	0	75	75	\$14.50	\$1,087.50
	16	793-13.32 6 DUCT FORMATION @ 36IN DEPTH	L.F.	0	2,505	2,505	\$32.00	\$80,160.00
	16	793-13.37 9 DUCT FORMATION @ 36IN DEPTH	L.F.	0	190	190	\$35.50	\$6,745.00
	16	793-13.51 8 DUCT FORMATION @ 36IN DEPTH	L.F.	0	435	435	\$35.50	\$15,442.50
	17	793-14.03 MANHOLE PRECAST 6-FT WIDE X 12-FT LONG X 2-FT HIGH	EACH	0	2	2	\$15,870.00	\$31,740.00
	18	793-14.10 4IN CORE DRILL INTO MANHOLE	EACH	0	6	6	\$230.00	\$1,380.00
	9	793-16.01 MH (RETIRED/REMOVE/GRAVEL BACKFILL)	EACH	0	2	2	\$730.00	\$1,460.00
SUB-TOTAL								\$226,400.00

AT&T FOOTNOTES:

9 INCLUDES ALL LABOR INCLUDING TRAFFIC CONTROL AND SETUP, REMOVAL OF LID AND COLLARS, BACKFILL WITH GRAVEL.

15 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SETUP, BENDS, AND TRAFFIC CONTROL.

16 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SPACERS, COUPLINGS, BENDS, OPENING TRENCH, BACKFILL, PER SPECS, SURFACE RESTORATION OF ALL CROSSINGS TO TDOT STANDARDS, SETUP, TRAFFIC CONTROL.

17 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO DIGGING HOLE, GRAVEL BASE, BACKFILL, AND SURFACE RESTORATION TO TDOT STANDARDS, FRAME AND COVER, SETUP AND TRAFFIC CONTROL.

TABULATED ATMOS									
FOOTNOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY. (PARTICIPATI NG, STATE/FEDER AL PIN 108409200)	EST QTY. (NON- PARTICIPATI NG, CITY SECTION)	TOTAL EST QTY.	UNIT COST	TOTAL	
	1	2IN HDPE GAS MAIN	L.F.	0	1,900	1,900	\$18.75	\$35,625.00	
	1	4IN HDPE GAS MAIN	L.F.	0	150	150	\$24.00	\$3,600.00	
	1	6IN HDPE GAS MAIN	L.F.	0	3,200	3,200	\$32.00	\$102,400.00	
	2	HDD 2IN PE PIPE - UNCONSOLIDATED	L.F.	0	1	1	\$88.00	\$88.00	
	2	HDD 4IN PE PIPE - UNCONSOLIDATED	L.F.	0	1	1	\$88.00	\$88.00	
	2	HDD 6IN PE PIPE - UNCONSOLIDATED	L.F.	0	1	1	\$94.00	\$94.00	
	2	HDD 2IN PE PIPE - ROCK	L.F.	0	1	1	\$150.00	\$150.00	
	2	HDD 4IN PE PIPE - ROCK	L.F.	0	1	1	\$160.00	\$160.00	
	2	HDD 6IN PE PIPE - ROCK	L.F.	0	1	1	\$170.00	\$170.00	
	4	CONNECT TO 2IN EX. PE MAIN	EACH	0	3	3	\$1,100.00	\$3,300.00	
	4	CONNECT TO 4IN EX. PE MAIN	EACH	0	1	1	\$2,750.00	\$2,750.00	
	4	CONNECT TO 6IN EX. PE MAIN	EACH	0	1	1	\$8,580.00	\$8,580.00	
	4	CONNECT TO 4IN EX. STL. MAIN W/ STOPPLE	EACH	0	1	1	\$9,680.00	\$9,680.00	
	4	CONNECT TO 6IN EX. STL. MAIN W/ STOPPLE	EACH	0	2	2	\$2,640.00	\$5,280.00	
	5	6IN PE GAS VALVE ASSEMBLY	EACH	0	29	29	\$530.00	\$15,370.00	
	6	3/4IN SERVICE ASSEMBLY	EACH	0	2,450	2,450	\$14.00	\$34,300.00	
	6	3/4IN PE SERVICE PIPE	L.F.	0	100	100	\$55.00	\$5,500.00	
	6	HDD 3/4IN PE SERVICE PIPE	L.F.	0	1	1	\$88.00	\$88.00	
	6	RESTORE ASPHALT	S.Y.	0	1	1	\$250.00	\$250.00	
	6	RESTORE CONCRETE	S.Y.	0	1	1	\$44.00	\$44.00	
	9	RETIRE IN PLACE 3/4IN SERV CUT & PLUG	EACH	0	27	27	\$660.00	\$17,820.00	
	9	RETIRE IN PLACE 2IN SERV CUT & PLUG	EACH	0	3	3	\$1,370.00	\$3,960.00	
	9	RETIRE IN PLACE 6IN SERV CUT & PLUG	EACH	0	1	1	\$1,980.00	\$1,980.00	
		SUB-TOTAL						\$251,277.00	

ATMOS ENERGY FOOTNOTES :

- 1 INCLUDES ALL MATERIALS INCLUDING SANDSTONE BEDDING, FLOWABLE FILL, TEMPORARY PAVEMENT IN OR OUT OF ROW, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, EXCAVATION INCLUDING DIRT/ROCK, BACKFILLING, CREEK CROSSINGS PER SWPP, COUPLINGS, FITTINGS, PIPE FUSION, APPURTENANCES, MAINTAINING THE TRENCH, PURGE POINT INSTALLATION, TESTING BY UTILITY SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO AIR, NITROGEN, HYDROSTATIC OR X-RAY, DEW POINT OR DRYING, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS
- 2 INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL, DIRECTIONAL, DRILLING INSTALLATION OF CASING PIPE OR UNCASED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK. STEEL PIPE INCLUDES SPECIAL COATING AS SPECIFIED ON PLANS AND SPECS. IF CASING PIPE PIPE SHALL BE PAID AT THE OPEN CUT ITEM PRICE.
- 3 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, NECESSARY FOR BORE & JACK OF GAS LINE CASING PIPE INCLUDING BUT NOT LIMITED TO ENTRY AND EXIT PITS, B & J EQUIPMENT AND TRAFFIC CONTROL. CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM PRICE.
- 4 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, NECESSARY FOR CONNECTING TO EXISTING GAS LINE, INCLUDING TRAFFIC CONTROL.
- 5 INCLUDES TRANSPORTATION FITTINGS, VALVES, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, EXCAVATION, BEDDING, BACKFILL, COUPLINGS, FUSION TEES, TAP OF EXISTING LINE, AND ALL OTHER NECESSARY MATERIALS AND LABOR FOR COMPLETE INSTALLATION OF ASSEMBLY, INCLUDING TRAFFIC CONTROL.
- 6 INCLUDES ALL MATERIALS, PARTS, LABOR, EQUIPMENT, MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF GAS SERVICE ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS. INSTALLATION FOR LONG SIDE AND SHORT SIDE APPLICATIONS. SERVICE PIPE SHALL BE PAID PER LINEAR FOOT INSTALLED
- 7 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF INDIVIDUAL ITEM AS SPECIFIED ON BID FORM AND UTILITY SPECIFICATIONS
- 8 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF ITEM

ESTIMATED PROJECT TOTALS	
SUB-TOTAL ROADWAY	\$5,868,076.48
SUB-TOTAL SIGNALIZATION/COMMUNICATION	\$491,170.50
SUB-TOTAL STREETSCAPE AND ELECTRICAL	\$3,412,631.15
SUB-TOTAL WATER AND SEWER	\$1,745,450.00
SUB-TOTAL AT&T	\$226,400.00
SUB-TOTAL ATMOS GAS	\$251,277.00
Total Project Bid	\$11,995,005.13