

ADDENDUM NO. 2

Date: April 9, 2018

To: All Bidders

From: City of Oak Ridge, Cannon & Cannon, Inc.

Project: Oak Ridge Turnpike Intersection Pedestrian Safety Improvements
Oak Ridge Project No.: FY2018-139
TDOT PIN: 122976.00
TDOT Project No.: 01LPLM-F3-031
Federal Project No.: TAP-STP-M-9115(20)

Bid Opening: April 17, 2018 at 3:00 pm (Eastern Time)

This Addendum consists of one (1) page and the following attachments:

- o Revised Plan Sheets: 2

This Addendum becomes part of the Contract Documents and amends or supplements the original plans and specifications as noted below.


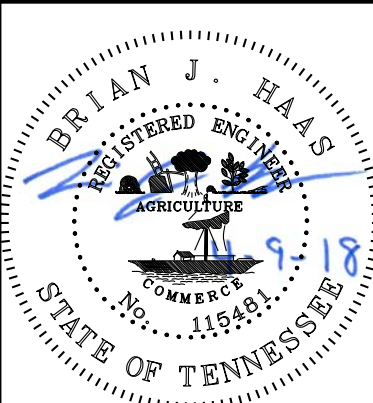
1. Sheet 2 was revised to include a revision to Footnote #17. The revised footnote states that the contractor shall coordinate with the City of Oak Ridge regarding the method of integrating the new cabinet and controller into the existing signal system. If the specified cabinet and controller type will not allow for tie-in to the existing communication, then the integration method for this project may be time base coordination until a potential future project installs fiber interconnect.

END OF ADDENDUM NO. 2

FOOT NOTES	ITEM NO.	DESCRIPTION	QTY.	UNIT
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	1	LS
	201-01	CLEARING AND GRUBBING	1	LS
1	202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	230	SY
1	202-03.01	REMOVAL OF ASPHALT PAVEMENT	475	SY
	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	37	CY
	203-04	PLACING AND SPREADING TOPSOIL	130	CY
1	209-03.20	FILTER SOCK (8 INCH)	700	LF
1	209-05	SEDIMENT REMOVAL	20	CY
1	209-09.43	CURB INLET PROTECTION (TYPE 4)	8	Each
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	340	Ton
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING BM-2	24	Ton
	411-02.10	ACS MIX (PG70-22) GRADING D	17	Ton
	611-03.05	GRAY IRON CASTINGS (ADAGRATE)	1	Each
	611-09.01	ADJUSTMENT OF EXISTING CATCH BASIN	5	Each
	701-01.01	CONCRETE SIDEWALK (4")	1515	SF
	701-02	CONCRETE DRIVEWAY	830	SF
2	701-02.03	CONCRETE CURB RAMP	1420	SF
	702-01	CONCRETE CURB	6	CY
	702-03	CONCRETE COMBINED CURB & GUTTER	35	CY
	712-01	TRAFFIC CONTROL	1	LS
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	100	Each
	712-05.03	WARNING LIGHTS (TYPE C)	100	Each
	712-06	SIGNS (CONSTRUCTION)	604	SF
	712-08.03	ARROW BOARD (TYPE C)	2	Each
3	713-15.02	REMOVAL & RELOCATION OF SIGN & SUPPORT	2	Each
4	713-15.36	REMOVE SIGN, SUPPORT & FOOTING	1	Each
5	713-16.41	RELOCATE SIGN	1	LS
6	714-01.36	ROADWAY LIGHTING	1	LS
7	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	280	LF
	716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	140	LF
7, 8	716-02.09	PLASTIC PAVEMENT MARKING (CUSTOM LADDER CROSS-WALK)	620	LF
7	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	36	SF
9	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	200	LF
9	716-08.03	REMOVAL OF PAVEMENT MARKING (CROSS-WALK)	420	LF
9	716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	285	LF
10	716-10.30	TRUNCATED DOME DETECTABLE WARNING MAT	8	SF
	716-12.01	ENHANCED FLAT LINE THERMO PVMT MRKNG (4IN LINE)	0.1	LM
	717-01	MOBILIZATION	1	LS
11	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	1	Each
12	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	16	Each
12	730-02.30	SIGNAL HEAD ASSEMBLY (140A4F WITH BACKPLATE)	6	Each
13	730-03.21	INSTALL PULL BOX (TYPE B)	10	Each
14	730-05.04	MODIFY EXISTING ELECTRICAL SERVICE CONNECTION	2	Each
	730-08.01	SIGNAL CABLE - 3 CONDUCTOR	1300	LF
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR	1750	LF
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	3250	LF
15	730-12.02	CONDUIT 2" DIAMETER (PVC)	370	LF
15	730-12.03	CONDUIT 3" DIAMETER (PVC)	150	LF
15	730-12.13	CONDUIT 2" DIAMETER (JACK AND BORE)	1650	LF
16	730-13.13	VEHICLE DETECTOR (RADAR)	8	Each
17	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	2	Each
18	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	2	Each
19	730-23.30	PEDESTAL POLE (PEDESTRIAN)	6	Each
20	730-23.88	CANTILEVER SIGNAL SUPPORT (1 ARM @ 45)	1	Each
19	730-26.06	PEDESTRIAN PUSHBUTTON POST	4	Each
21	730-26.09	PEDESTRIAN PUSHBUTTON WITH 15IN SIGN	2	Each
21	730-26.11	CNT DWN PED SGNL HEAD W/ AUDIBLE PUSHBUTTON & 15IN SIGN	16	Each
	801-02	SEEDING (WITHOUT MULCH)	14	Unit
	801-03	WATER (SEEDING AND SODDING)	1	MG
	805-12.01	EROSION CONTROL BLANKET (TYPE 1)	1200	SY

FOOTNOTES:

- (1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
- (2) ITEM INCLUDES TRUNCATED DOME SURFACE.
- (3) REMOVAL AND RELOCATION OF ONE "YIELD" SIGN AND ONE "SPEED LIMIT" SIGN. SEE SHEETS 4A AND 5A FOR LOCATIONS.
- (4) REMOVAL OF ONE "STOP" SIGN. SEE SHEET 5A FOR LOCATION.
- (5) RELOCATION OF ONE STREET NAME SIGN FROM EXISTING MAST ARM TO NEW MAST ARM AT OAK RIDGE TURNPIKE / TULANE INTERSECTION.
- (6) ITEM INCLUDES REMOVAL OF EXISTING STREET LIGHT AND INSTALLATION OF NEW STREET LIGHT AT OAK RIDGE TURNPIKE / TULANE INTERSECTION AND ALL WIRING AND OTHER INCIDENTALS NECESSARY FOR FULLY FUNCTIONAL LUMINAIRE ON NEW SIGNAL POLE.
- (7) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- (8) SEE SHEET 2A FOR CROSS-WALK DETAIL.
- (9) PAVEMENT MARKING REMOVAL SHALL BE COMPLETED USING WATERBLASTING, HYDROBLASTING, OR GRINDING TECHNIQUES TO MINIMIZE THE VISIBILITY OF EXISTING STRIPING.
- (10) ITEM IS FOR TRUNCATED DOME SURFACES TO BE INSTALLED ON EXISTING CURB RAMPS AS SHOWN ON SHEET 4A.
- (11) ITEM INCLUDES REMOVAL OF ALL MAST ARMS, VEHICULAR SIGNAL HEADS, PEDESTRIAN PEDESTAL POLES, PEDESTRIAN SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, CABINETS, WIRING, AND ASSOCIATED CONTENTS AS SHOWN ON THE PLANS AT THE INTERSECTIONS OF TURNPIKE AT TULANE AND TURNPIKE AT EAST DIVISION / TENNYSON.
- (12) SIGNAL HEADS SHALL INCLUDE LOUVERED BACKPLATES WITH A 1" MINIMUM/3" MAXIMUM YELLOW RETRO REFLECTIVE BORDER AROUND THE PERIMETER OF THE FACE OF THE BACKPLATE. THE RETRO REFLECTIVE BORDER SHALL BE MADE OF ATYPE III PRISMATIC OR BETTER MATERIAL.
- (13) PULL BOXES SHALL HAVE "TRAFFIC SIGNAL" STAMPED ON THE LID.
- (14) ITEM INCLUDES CONDUIT, CABLE, AND ALL OTHER ITEMS NECESSARY TO MODIFY ELECTRICAL SERVICE CONNECTION FROM EXISTING TRAFFIC SIGNALS TO NEW TRAFFIC SIGNALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE SIGNAL CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 730-05.04 FOR PAYMENT BY THE CONTRACTOR.
- (15) CONDUIT SHALL BE PVC SCHEDULE 80.
- (16) EQUIPMENT TO BE WAVETRONIX SMART SENSOR MATRIX DETECTION SYSTEM. INCLUDES ALL SENSOR UNITS, HARDWARE, SOFTWARE, MOUNTING ASSEMBLIES, 1,200 FEET OF POWER CABLE, AND RELATED EQUIPMENT TO PROVIDE ALL DETECTION ZONES AS SHOWN ON THE PLANS. CONTRACTOR TO ENSURE COMPATIBILITY WITH SIGNAL CONTROLLER.
- (17) CABINET SHALL BE NEMA TS2-TYPE 2, COMPLETE WITH PANELS, WIRING, AND OTHER INCIDENTALS REQUIRED FOR CLOSED LOOP OPERATION INTO THE EXISTING SIGNAL SYSTEM AND FUTURE FIBER COMMUNICATION. CONTRACTOR SHALL COORDINATE WITH CITY OF OAK RIDGE ON METHOD OF INTEGRATION WITH EXISTING SIGNAL SYSTEM. CONTROLLER SHALL BE ATC.
- (18) CONTROLLER SHALL BE ATC.
- (19) ITEM INCLUDES COMPLETE POWER INSTALL TYPE FOUNDATION.
- (20) ITEM INCLUDES COMPLETE FOUNDATION PER TDOT STANDARDS.
- (21) PEDESTRIAN PUSHBUTTONS SHALL BE FULLY ACCESSIBLE AND AUDIBLE AND COMPLIANT WITH ALL REQUIREMENTS OF THE MUTCD, ADA, AND PROWAG.

REVISED FOOTNOTE 17	04-09-18
ADDED PAY ITEMS 611-03.05 AND 611-09.01	04-05-18
REVISIONS	DATE
 CANNON & CANNON INC CONSULTING ENGINEERS · FIELD SURVEYORS TEL 865.670.8555 8550 Kingston Pike WWW.CANNON-CANNON.COM Knoxville, TN 37919	
CLIENT:	CITY OF OAK RIDGE
PROJECT:	OAK RIDGE TURNPIKE INTERSECTION PEDESTRIAN SAFETY IMPROVEMENTS
ESTIMATED ROADWAY QUANTITIES	
CCI PROJECT NO.	00368-0027
DATE	07-26-17
P.M.	BJH
DRAWN	TSN
O.C.	RJB
	
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