

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: August 19, 2014
Date of Addendum: August 6, 2014

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
101	25-0803-175	PCC PAVEMENT - GRADE AND NEW	DALLAS	IMN-080-3(175)119--0E-25	19AUG101.A05

Make the following change to the PLAN:

SHEET C.2:

Add the following note to the ESTIMATE REFERENCE INFORMATION for the item 2102-2710070 EXCAVATION, CLASS 10, ROADWAY AND BORROW:

“No overhaul will be paid as a part of this project.”

SHEET N.1:

Replace Sheet N.1 with the attached Sheet N.1. Quantities for Items 43 and 44 on this sheet were revised.

TRAFFIC SIGNAL GENERAL NOTES

1. ALL QUANTITIES SHOWN IN THE TRAFFIC SIGNAL PLANS AND SPECIFICATIONS ARE FOR INFORMATIONAL AND ESTIMATING PURPOSES ONLY. CONTRACTOR SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES IN THE BIDDING PRICE. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF WEST DES MOINES AND THE IOWA DEPARTMENT OF TRANSPORTATION PER 761 OF THE IOWA ADMINISTRATIVE CODE, CHAPTER 139.
2. PROVIDE TRAFFIC CONTROL DEVICES AS REQUIRED TO FACILITATE CONSTRUCTION OF TRAFFIC SIGNALS IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
3. THE PLAN LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL INVESTIGATE ALL UTILITIES PRIOR TO STARTING ANY EXCAVATION ON THE PROJECT TO ESTABLISH LOCATIONS.
4. THE LOCATIONS OF ALL DETECTORS AND PULLBOXES ARE APPROXIMATE ONLY AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD BY THE ENGINEER.
5. INSTALL ONE SIGNAL CABLE FROM EACH SIGNAL HEAD TO THE BASE OF THE POLE. A 5-CONDUCTOR CABLE SHALL BE USED IN THE POLES FOR 3-SECTION VEHICLE SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS. A 7-CONDUCTOR CABLE SHALL BE USED IN THE POLES FOR ALL SIGNAL HEADS WITH GREATER THAN 3 SECTIONS.
6. INSTALL A #6 AWG BARE COPPER GROUND WIRE BETWEEN THE GROUND RODS IN THE SIGNAL FOOTINGS AND THE CONTROLLER CABINET TO FORM A CONTINUOUSLY GROUNDED SYSTEM. THE GROUND WIRE SHALL BE INSTALLED IN ALL CONDUITS WITH THE EXCEPTION OF THE TUNCH CONDUIT BETWEEN THE DETECTOR CABINET AND THE CONTROLLER CABINET. CONTAINING ONLY DETECTOR LEAD-IN CABLE.
7. ROADWAY GEOMETRICS REPRESENT EXISTING/PROPOSED FEATURES.
8. ALL CONDUIT SHALL BE RIGID P.V.C. CONDUIT.
9. SIGNALS TO BE PLACED TO THE CITY OF WEST DES MOINES BEFORE PLACING PERMANENT TRAFFIC SIGNALS INTO OPERATION.
10. INSTALL ONE (1) PULL ROPE AND TRACER WIRE IN EACH CONDUIT PER SPECIFICATIONS. THE PULL ROPE TERMINATES IN THE CABINET.
11. ALL WIRE CONNECTIONS SHALL BE MADE BY THE CITY PRIOR TO SIGNAL TURN-ON.
12. CONTRACTOR SHALL PROVIDE 50 FEET OF POWER SERVICE CABLE AT THE BASE OF THE SECONDARY SERVICE POLE. POWER SERVICE PROVIDER TO INSTALL SECONDARY SERVICE RISER. CONTRACTOR IS RESPONSIBLE FOR THE COST OF THE SERVICE RISER.
13. CONTRACTOR SHALL HAVE AN EMPLOYEE ON THE PROJECT WITH A LEVEL II INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMS) TRAFFIC SIGNAL TECHNICIAN CERTIFICATION.
14. SIGNAL HEADS SHALL BE ALIGNED OVER THE CENTER OF INTERSECTION APPROACH LANES. APPROXIMATE TRAFFIC SIGNAL HEAD LOCATIONS ON MAST ARM ARE SHOWN ON POLE DETAIL SHEET. CONTRACTOR SHALL COORDINATE WITH CITY PROJECT ENGINEER TO DETERMINE PLACEMENT IN FIELD.
15. SIGNAL WIRE CONNECTIONS SHALL BE SPILLED IN POLE BASES. USE SILICONE-FILLED WIRE NUTS FOR ALL SIGNAL WIRE CONNECTIONS.
16. ALL SIGNS SHOWN ON 'N' SHEETS WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF WEST DES MOINES AND THE IOWA DEPARTMENT OF TRANSPORTATION PER 761 OF THE IOWA ADMINISTRATIVE CODE, CHAPTER 139.
17. ALL VEHICLE AND PEDESTRIAN INDICATORS SHALL BE LED. ALL PEDESTRIAN INDICATORS SHALL INCLUDE COUNTDOWN TIMER FEATURE.
18. ALL OVERHEAD-MOUNTED TRAFFIC SIGNAL HEADS SHALL BE FURNISHED WITH BACKPLATES.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE CITY ENGINEER TO DETERMINE PLACEMENT OF TRAFFIC SIGNAL HEADS ON MAST ARMS. THE SIGNAL HEADS CAN BE VIEWED WHILE FACING THE CONTROLLERS UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER.
20. THE CONTRACTOR HAS THE OPTION TO BORE OR TRENCH CONDUIT; HOWEVER CONDUIT SHALL BE BORED.
21. THE CONTRACTOR SHALL NOT REMOVE ANY CITY OF WEST DES MOINES TRAFFIC SIGNS. IF SIGNS MUST BE REMOVED FOR CONSTRUCTION, THEY WILL BE REMOVED AND REPLACED, UPON 5 DAY NOTIFICATION FROM THE CONTRACTOR, BY PERSONNEL FROM THE CITY OF WEST DES MOINES.
22. SIGNS SHALL BE PLACED IN THE SAME TRENCH WHERE APPLICABLE, AS INDICATED ON THE PLANS.
23. CONTRACTOR SHALL USE A STEEL CASING PIPE FOR TRAFFIC SIGNAL FOUNDATIONS WHERE SOILS ARE UNSTABLE OR HAVE HIGH SAND CONTENT.
24. CONTRACTOR SHALL PROVIDE ALL NECESSARY SOILS INFORMATION. NO ADDITIONAL PAYMENT SHALL BE MADE FOR SLEEVE DURING INSTALLATION.

POLE NO.	POLE TYPE	MAST ARM LENGTH OR PEDESTAL HEIGHT (FT)	TRAFFIC SIGNAL HEADS		LUMINAIRE ARMS		FOOTING DIMENSIONS		ATTACHED EQUIPMENT*
			QTY.	LOCATION ON MAST ARM	SPREAD (FT)	HEIGHT (FT)	DIA. (IN)	DEPTH (FT)	
1	SIGNAL AND LIGHTING POLE	50	3	20, 34, 48	15	35	36	14	1, 2
2	PEDESTAL	20	-	-	-	-	24	5	4
3	PEDESTAL	13	-	-	-	-	24	3	3
4	PEDESTAL	13	-	-	-	-	24	3	3
5	SIGNAL AND LIGHTING POLE	50	3	19, 33, 46	15	35	42	16	1, 2, 3, 5
6	PEDESTAL	20	-	-	-	-	24	5	4
7	PEDESTAL	20	-	-	-	-	24	5	4
8	PEDESTAL	13	-	-	-	-	24	3	4
9	PEDESTAL	13	-	-	-	-	24	3	4
10	SIGNAL AND LIGHTING POLE	50	2	32, 48	15	35	36	14	1, 2
11	PEDESTAL	13	-	-	-	-	24	3	3
12	PEDESTAL	20	-	-	-	-	24	5	4
13	SIGNAL AND LIGHTING POLE	50	3	20, 34, 48	15	35	36	14	1, 2
14	SIGNAL AND LIGHTING POLE	50	3	20, 34, 48	15	35	36	14	1, 2
15	PEDESTAL	20	-	-	-	-	24	5	4

- * 1. INSTEAD ADAPTIVE TRAFFIC CONTROL CAMERA
- 2. EMERGENCY VEHICLE PREEMPTION DETECTOR
- 3. TRAFFIC MONITORING UNIT (PTZ CAMERA & ACCESSORIES)
- 4. WAVETRONIX IADAR DETECTOR
- 5. WHELEEN VORTEX84 WEATHER SIREN

ITEM	DESCRIPTION	UNIT	PROJECT QUANTITY
1	Solid State Controller with R Cabinet, Riser, Accessories and Spare Controller	EA	2
2	Tesco UPS Unit with Base Mounted Cabinet, Riser Batteries, and Accessories	EA	2
3	TOMAR Emergency Vehicle Preemption Detector	EA	5
4	Pedestrian Pushbutton with RUD-3 Sign	EA	4
5	Traffic Monitor System with Cable and Accessories	L.S.	2
6	Wavetronix Radar Detection, with Interface Panel	EA	5
7	Rhythm Adaptive Traffic Control, with Interface Panel	L.S.	2
8	Traffic Signal Head - 12" R, Y, S With Backplate Mast Arm Mounted, LED Modules	EA	14
9	Traffic Signal Head - 12" R, Y, S With Backplate Mast Arm Mounted, LED Modules	EA	2
10	Traffic Signal Head - 12" R, Y, S With Backplate Mast Arm Mounted, LED Modules	EA	2
11	Traffic Signal Head - 12" R, Y, S With Backplate Mast Arm Mounted, LED Modules	EA	3
12	Pedestrian Signal Head - 12" Hand-Main Symbol, 12" Countdown Clock Side of Pole Mounted	EA	4
13	Power Supply - Furnish and Install Meter Socket	EA	2
14	Handhole - Type I [24" Round]	EA	24
15	Handhole - Type II [30" x48"]	EA	5
16	Cable-12C, #14 AWG, Signal Circuits	LF	1000
17	Cable-7C, #14 AWG, Signal Circuits	LF	3200
18	Cable-5C, #14 AWG, Radar Detector	LF	1100
19	Cable-5C, #14 AWG, Signal Circuits	LF	1000
20	Cable-3C, #14 AWG, ATC Camera	LF	1300
21	Cable-3C, #14 AWG, Signal Circuits	LF	900
22	Cable-3C, #20 AWG, Emergency Vehicle Preempt Detector	LF	1300
23	Cable-1C, #6 AWG, Bare Copper Wire For Ground Circuits	LF	1600
24	Cable-1C, #10 AWG, Tracer Wire	LF	6000
25	Cable-1C, #4 AWG, Power Lead-In	LF	1600
26	72-5M Fiber Optic	LF	1750
27	CAT-5E Cable, ATC Camera	LF	1300
28	Pull Rope	LF	6000
29	Conduit-2 in. PVC, Trenched	LF	5300
30	Conduit-3 in. PVC, Trenched	LF	300
31	Conduit-4 in. PVC, Trenched	LF	450
32	Concrete Base - Controller	EA	2
33	Concrete Base - (15' Pedestal Pole), 2' Dia. X 3'	EA	5
34	Concrete Base - (20' Pedestal Pole), 2' Dia. X 5'	EA	5
35	Concrete Base - 3' Dia. X 10'	EA	5
36	Signal Pole - 15' Aluminum Pedestal Pole	EA	5
37	Signal Pole - 20' Aluminum Pedestal Pole	EA	5
38	Signal Pole, 50' Mast Arm	EA	5
39	Vortex84 Weather Siren, and accessories	EA	1
40	Traffic Sign R3-1 36" x 36", Mast Arm Mounted	EA	3
41	Traffic Sign R3-2 36" x 36", Mast Arm Mounted	EA	2
42	Traffic Sign R3-3A 30" x 36", Mast Arm Mounted	EA	12
43	Fiber Optic termination - Single Mode	EA	48
44	Communication Coordinator	EA	1

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Eric J. Reinke Meyer 8/25/2014 DATE

ERIC J. REINKE MEYER MY LICENSE RENEWAL DATE IS DECEMBER 31, 2014

LICENSE NO.: 21577 PAGES OR SHEETS COVERED BY THIS SEAL: _____

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