

TRAFFIC CONTROL (CONT.)

MAINTENANCE OF TRAFFIC SIGNAL INSTALLATION (CONT.)

THE CONTRACTOR SHALL SUSPEND ALL WORK, SHALL HAVE ALL TRAFFIC SIGNALS IN OPERATION USING EXISTING AND/OR PROPOSED TRAFFIC SIGNALS AND SHALL HAVE ALL TRENCH IN PAVED AREAS PAVED DURING THE MILLERSBURG ANTIQUE FESTIVAL (OCTOBER 6, 2001 THRU OCTOBER 7, 2001) AND DURING THE HOLMES COUNTY FAIR (AUGUST 14, 2001 THRU AUGUST 18, 2001).

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION.
 2. TIME OF WORK CREW'S ARRIVAL TO CORRECT THE MALFUNCTION.
 3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED.
 4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE.
 5. TIME OF COMPLETION OF REPAIR AND SYSTEM RESTORED TO FULL SERVICE.
- A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

UNDERDRAINS FOR PULL BOXES

REFERENCE IS MADE TO STANDARD DRAWING HL-30.11 FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 40 FEET. AN ESTIMATED QUANTITY OF 480 LIN. FT. OF ITEM 603, 4" CONDUIT, TYPE E IS INCLUDED IN THE GENERAL SUMMARY FOR THIS PURPOSE.

ITEM 625 - TRENCH IN PAVED AREA, TYPE ()

THE CONTRACTOR SHALL DO ALL TRENCHING BETWEEN THE HOURS OF 6:00 PM TO 6:00 AM. ALL OTHER REQUIREMENTS SHALL BE AS PER 625.12 AND 625.24.

ITEM 632 - VEHICULAR SIGNAL HEAD, () SECTION, 12" LENS, 1 WAY, POLYCARBONATE, AS PER PLAN

SECTION 732.01 OF THE SPECIFICATIONS IS MODIFIED FOR THIS PROJECT AS FOLLOWS:

- A) SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF INJECTION MOLDED, UV STABILIZED, POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS.
- B) PLASTIC LENSES SHALL BE USED.
- C) PIPE, SPACERS AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
- D) PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.

THE SIGNAL HEADS SHALL BE RIGIDLY MOUNTED TO THE MAST ARMS.

ITEM 632 - PEDESTRIAN SIGNAL HEADS, TYPE D2, AS PER PLAN

SECTION 732.05 OF THE SPECIFICATIONS IS MODIFIED FOR THIS PROJECT AS FOLLOWS:

- A) SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF POLYCARBONATE PLASTIC AND SHALL MEET ITE SPECIFICATIONS.
- B) PLASTIC LENSES SHALL BE USED.
- C) PIPE, SPACERS AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
- D) INSTALLATION SHALL BE PER ODOT STANDARD CONSTRUCTION DRAWING TC-85.10 WITH THE EXCEPTION THAT "CLAM SHELLS" SHALL NOT BE USED.
- E) THE INTERNATIONAL PALM AND PEDESTRIAN SYMBOLS SHALL BE USED.
- F) POLE PLATES WITH STAINLESS STEEL BANDING SHALL BE USED FOR MOUNTING SIGNALS TO POLES.

ITEM 632 - SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG

THE SIGNAL CABLE SHALL BE CONNECTED TO THE EXISTING REMOTE PREEMPT WIRING AT THE EXISTING POLE AT THE NORTHWEST CORNER OF THE JACKSON ST. (S.R. 39) AND WASHINGTON ST. INTERSECTION AND SHALL THEN RUN OVERHEAD TO THE EAST TO PROPOSED POLE P2 AT THE NORTHEAST CORNER OF THE JACKSON ST. (S.R. 39) AND WASHINGTON ST. INTERSECTION. THE REMOTE PREEMPT CONTROL SIGNAL CABLE SHALL THEN BE RUN AS DETAILED ON SHEETS 15, 16, 17 AND 19.

ITEM 632 - INTERCONNECT CABLE, 6 PAIR, NO. 19 AWG, SOLID, REA (PE-39), AS PER PLAN

SPICES SHALL OCCUR ONLY AT THE TERMINAL ENDS OF THE HARDWIRE INTERCONNECT PANEL. NO OTHER SPICE LOCATIONS SHALL BE PERMITTED.

PAYMENT FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT BID FOR "ITEM 632 INTERCONNECT CABLE, 6 PAIR, NO. 19 AWG, SOLID, REA (PE 39), AS PER PLAN". MEASUREMENT WILL BE BASED UPON THE NUMBER OF LINEAR FEET IN PLACE.

ITEM 632 - POWER SERVICE, AS PER PLAN

ELECTRIC POWER (120 VOLTS) SHALL BE OBTAINED FROM AN EXISTING EMERGENCY LOAD CENTER LOCATED IN THE VILLAGE OF MILLERSBURG VILLAGE HALL BASEMENT. THE EXISTING EMERGENCY LOAD CENTER IS FED FROM AN EXISTING AUTOMATIC TRANSFER SWITCH ALSO LOCATED IN VILLAGE HALL (WHICH IS FED FROM AN EXISTING POWER SERVICE FROM AMERICAN ELECTRIC POWER AND FROM AN EXISTING EMERGENCY GENERATOR ALSO LOCATED IN VILLAGE HALL). EXISTING UNUSED CIRCUITS IN THE EXISTING EMERGENCY LOAD CENTER SHALL BE REMOVED AS REQUIRED TO ACCOMMODATE A PROPOSED 70 AMP CIRCUIT BREAKER (WHICH MUST BE COMPATIBLE WITH EXISTING EMERGENCY LOAD CENTER) FOR THE TRAFFIC SIGNALS. THE TRAFFIC SIGNAL POWER CIRCUIT SHALL BE A 3 CONDUCTOR NO. 2 AWG CABLE IN A TWO (2) INCH CONDUIT WHICH SHALL RUN FROM THE EXISTING EMERGENCY LOAD CENTER IN THE VILLAGE HALL BASEMENT TO AND THROUGH A CRAWL SPACE NORTH OF THE BASEMENT TO AND THROUGH THE NORTH WALL OF THE VILLAGE HALL. A CONDUIT LB AND VERTICAL CONDUIT RUN (WITH CABLE) SHALL BE PROVIDED ON THE EXTERIOR OF THE NORTH WALL OF THE VILLAGE HALL. THE TRAFFIC SIGNAL POWER CIRCUIT SHALL THEN RUN OVERHEAD TO AN EXISTING POLE ADJACENT TO THE NORTH END OF THE VILLAGE HALL, SHALL THEN RUN OVERHEAD TO THE EAST TO EXISTING POLE APPURTENANCES ON THE WEST SIDE OF NORTH WASHINGTON ST., SHALL THEN RUN OVERHEAD TO THE SOUTH TO AN EXISTING POLE AT THE NORTHWEST CORNER OF THE JACKSON ST. (S.R. 39) AND WASHINGTON ST. INTERSECTION AND SHALL THEN RUN OVERHEAD TO THE EAST TO PROPOSED POLE P2 AT THE NORTHEAST CORNER OF THE JACKSON ST. (S.R. 39) AND WASHINGTON ST. INTERSECTION. THE TRAFFIC SIGNAL POWER CIRCUIT SHALL THEN RUN AS DETAILED ON SHEETS 15, 16, 17, 18, AND 19. ALL WORK UNDER THIS ITEM SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, AMERICAN ELECTRIC POWER AND LOCAL REGULATIONS. ALL EXISTING FACILITIES DISTURBED SHALL BE REPAIRED, REPLACED, SEALED, ETC. IN A MANNER SATISFACTORY TO THE ENGINEER, THE VILLAGE OF MILLERSBURG AND AMERICAN ELECTRIC POWER AS APPLICABLE. THIS ITEM SHALL INCLUDE THE EXISTING EMERGENCY LOAD CENTER MODIFICATIONS (INCLUDING PROPOSED CIRCUIT BREAKER), THE CONDUIT AND CABLE BETWEEN THE EXISTING EMERGENCY LOAD CENTER AND THE WEATHERHEAD ON THE EXTERIOR OF THE NORTH WALL OF THE VILLAGE HALL, CONDUIT ELL(S), CONDUIT LB(S), WEATHERHEAD(S), THE LOCAL FUSED DISCONNECT SWITCHES (AT EACH TRAFFIC SIGNAL INSTALLATION), ETC.

ITEM 632 - COMBINATION SIGNAL SUPPORT, TYPE TC-(), DESIGN (), AS PER PLAN

THE SIGNAL SUPPORT SHALL BE AS PER STANDARD DRAWING TC-() WITH EXTENSION FOR LUMINAIRE, BRACKET ARM PLATES AND POLE PLATES SHALL BE PROVIDED AS PER STANDARD DRAWING HL-10.12. BRACKET ARM, LUMINAIRE AND WIRING ARE TO BE PROVIDED AND INSTALLED BY AMERICAN ELECTRIC POWER (AEP). THE CONTRACTOR SHALL COORDINATE INSTALLATION OF LUMINAIRES WITH AEP AND THE ENGINEER. COMBINATION SIGNAL SUPPORTS SHALL BE AS FOLLOWS:

INTERSECTION WITH JACKSON ST.*	SUPPORT NO.	COMBINATION SIGNAL SUPPORT		MAST ARM A (TYPE TC-81.20)		MAST ARM B (TYPE TC-81.20)	
		TYPE	DESIGN	DESIGN	LENGTH (FT.)	DESIGN	LENGTH (FT.)
WASHINGTON ST.	P1	TC-12.30	5	12	48	1	18
CLAY ST.	P2	TC-12.30	5	12	48	2	26
CLAY ST.	P1	TC-12.30	6	11	41	11	39
MONROE ST.	P1	TC-81.20	4	3	35	3	33
MONROE ST.	P2	TC-81.20	4	3	35	3	32
WASHINGTON ST.	P2	TC-81.20	12	11	40	1	21

* SEE SHEETS 15, 16 AND 17 FOR ADDITIONAL INFORMATION ON STREET NAME (N., S., E. OR W.) AND STATE OR FEDERAL ROUTES

ITEM 632 - REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN

TRAFFIC SIGNAL INSTALLATION, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC. SHALL BE REMOVED IN ACCORDANCE WITH 632.25 AND AS INDICATED ON THE PLANS. ALL REMOVED ITEMS SHALL BE DELIVERED TO:

VILLAGE OF MILLERSBURG STREET DEPARTMENT
(ANDREW D. JONES, VILLAGE ADMINISTRATOR)
600 WALKUP STREET
MILLERSBURG, OHIO 44654
(330) 674-1886
MONDAY THRU FRIDAY 7:00AM TO 3:30PM

ALL EXISTING CONTROL WIRING FOR THE EXISTING REMOTE PREEMPT CONTROL SIGNAL BETWEEN THE EXISTING POLE AT THE NORTHWEST CORNER OF THE JACKSON ST. (S.R. 39) AND WASHINGTON ST. INTERSECTION AND THE EXISTING TRAFFIC SIGNAL INSTALLATIONS SHALL BE REMOVED AS A PART OF THIS ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD DETERMINING THE ROUTING OF THIS EXISTING WIRING.

WITH THE EXCEPTION OF ITEMS WHOSE REMOVAL IS NECESSARY TO PERMIT THE INSTALLATION OF THE NEW SIGNAL EQUIPMENT, NO ITEM SHALL BE REMOVED UNTIL THE NEW INSTALLATION IS IN FULL OPERATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL DISCONNECT THE EXISTING TRAFFIC SIGNAL POWER CIRCUIT BEFORE THE EXISTING TRAFFIC SIGNAL INSTALLATIONS ARE REMOVED. PAYMENT FOR ITEM 632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN SHALL BE AS PER 632.28.

ITEM 633 - CONTROLLER, MISC.: MASTER/SECONDARY COORDINATOR, AS PER PLAN

1. THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING COORDINATION FUNCTIONS AND NECESSARY INTERFACE TO MAKE THE COORDINATOR COMPLETELY FUNCTIONAL AND OPERATIONAL AS SHOWN IN THE PLANS.
2. PAYMENT FOR ITEM 633 CONTROLLER, MISC.: MASTER/SECONDARY COORDINATOR, AS PER PLAN WILL BE MADE AT THE CONTRACT PRICE COMPLETELY INSTALLED IN THE LOCAL CONTROLLER CABINET SHOWN IN THE PLANS, WIRED, TESTED, AND ACCEPTED.
3. THE MASTER COORDINATOR SHALL BE LOCATED IN THE 8 PHASE CABINET AT CLAY STREET (U.S. 62 AND/OR S.R. 83).

CALCULATED
CHECKED

GENERAL NOTES

HOL-39-17.36

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19