

## SUMMARY OF QUANTITIES

OODL NO	\$ 1 to 17		
72000205	SIGN PANEL - TYPE 2 (SPECIAL)	SQ FT	28
80500100	SERVICE INSTALLATION, TYPE A	EACH	1
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	85
81012700		FOOT	40
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	5
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	360
81400100	HANDHOLE	EACH	3
81400300	DOUBLE HANDHOLE	EACH	1
81702415	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6	FOOT	140
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	135
82103250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	2
85700205	FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200200	UNINTERRUPTIBLE POWER SUPPLY, STANDARD	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	990
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	F00T	800
87301815		FOOT	45
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	2
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT. (SPECIAL)	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	9
	CONCRETE FOUNDATION, TYPE D	FOOT	3
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	45
	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED	EACH	2
88100400		EACH	3
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
89502300		FOOT	1500
89502380		EACH	2
89592375		EACH	6
89592385		EACH	6
	REMOVE AND REINSTALL FIBER OPTIC CABLE IN CABINET	L SUM	1
	PHOTO CELL CONTROLLER	EACH	1
	ELECTRIC CABLE IN CONDUIT, NO. 12 3/C	FOOT	405
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	F00T	345

-SERVICE INSTALLATION, TYPE A 1 METER AND POLE - 36 SIGNAL DISCONNECT IS RTE NORTH) POWDER COATED BLACK 1 LIGHTING DISCONNECT W/ CONCRETE FOUNDATION TYPE E, 30" DIA., 13.5' DEEP PHOTO CELL CONTROLLER -STA 10+24.85/ 53' LT FULL-ACTUATED CONTROLLER AND TYPE IV CABINET W/ CONCRETE FOUNDATION, TYPE D ATTACHED TO POLE ੂੰ ਨੂੰ STA 10+21/ 53' LT CONCRETE DOUBLE HANDHOLE 10+20.8/ 38.3' L1 HANDHOLE (TO BE REMOVED) STA 9+77.4/ 31.7' LT HANDHOLE (TO BE REMOVED) -STA 10+37/ 30.5' LT
PEDESTRIAN SIGNAL POST
GALVANIZED STEEL 16', POWDER
COATED BLACK W/ PEDESTRIAN
SIGNAL HEAD, 1 FACE,
POST MOUNTED STA 9+68/ 34.5' LT CONCRETE HANDHOLE STA 9+71.2/ 29.9' LT
STEEL COMBINATION
MAST ARM ASSEMBLY
AND POLE - 30' (SPECIAL)
POWDER COATED BLACK
W/ CONCRETE FOUNDATION
TYPE E, 30'' DIA., 13.5' DEEP
W/ 2-EACH 250-WATT LUMINAIRES .
AND PHOTO CELLS CONCRETE FOUNDATION TYPE A C W 11+00 10\<del>+</del>00 PULL BACK FIBER OPTIC CABLETO EXISTING HANDHOLE, RUN IN CONDUIT TO NEW CONTROLLER AND RE-TERMINATE FIBERS AT CONTROLLER VIRGINIA AVENUE STA 9+68/ 20.4' RT EXISTING FIBER OPTIC HANDHOLE  $\square V$ STA 9+62/ 23' RT-CONCRETE HANDHOLE 2 1/2" -STA 10+76.5/ 29' RT STEEL MAST ARM ASSEMBLY AND POLE - 34'
POWDER COATED BLACK
W/ PEDESTRIAN SIGNAL HEAD, 1 HEAD, POST MOUNTED
W/ CONCRETE FOUNDATION
TYPE E, 30" DIA., 18' DEEP STREE. STA 9+68/ 26.5' RT PEDESTRIAN SIGNAL POST GALVANIZED STEEL 10', POWDER COATED BLACK W/ PEDESTRIAN -STA 10+50/ 28' RT CONCRETE HANDHOLE MAIN 2 SIGNAL HEAD, 1 FACE, POST MOUNTED CONCRETE FOUNDATION TYPE A STA 10+27/ 50' RT
PEDESTRIAN SIGNAL POST
GALVANIZED STEEL 10', POWDER
COATED BLACK W/ PEDESTRIAN
SIGNAL HEAD, 1 FACE,
POST MOUNTED
CONCRETE FOUNDATION TYPE A UNIT QUANTITY

## GENERAL NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
  2. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY, INCIDENTAL TO THE CONTRACT.
- 3. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

  4. GROUND RODS SHALL BE SOLID COPPER ALLOY OR COPPER CLAD STEEL. CONTROLLER CABINET GROUNDING ROD SHALL BE PLACED IN THE DOUBLE HANDHOLE INCIDENTAL TO THE CONTRACT.

- 4. GROUND RODS SHALL BE SOLID COPPER ALLOY OR COPPER CLAD STEEL, CONTROLLER CABINET GROUNDING ROD SHALL BE PLACED IN THE DOUBLE HANDHOLE INCIDENTAL TO THE CONTRACT.

  5. ALL SIGNAL BASES SHALL BE LOCATED A MINIMUM OF 6 FEET FROM THE FACE OF CURB UNLESS OTHERWISE REQUESTED BY THE ENGINEER.

  6. ALL MAST ARM POLE BASES SHALL BE PROTECTED BY A STAINLESS STEEL BANDING AS INCIDENTAL TO THE INDIVIDUAL MAST ARM ASSEMBLY PAY ITEM.

  7. A \*10 STRANDED COPPER WIRE SHALL HAVE SIX (6) FEET OF SLACK AND SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.

  8. ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE FUNDISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.

  9. ALL LED SIGNAL LENSES SHALL BE OF THE SAME TYPE, DESIGN, AND APPEARANCE AND BE FROM THE SAME MANUFACTURER FOR A GIVEN INTERSECTION.

  10. ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.

  11. THE CONTROLLER SHOULD BE PLACED SO THAT A TECHNICIAN MAY SEE AS MUCH OF THE INTERSECTION AS POSSIBLE OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.

  2. THE CONTROLERO SHALL BE RESPONSIBLE FOR HAVING THE CABINET ENERGIZED, FULLY FUNCTIONAL AND READY FOR TESTING A MINIMUM OF 48 HOURS PRIOR TO SCHEDULED SIGNAL TURN ON. CONTRACTOR SHALL IN ERSPONSIBLE FOR HAVING THE CABINET ENERGIZED.

  3. THE HOSINEER SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO SIGNAL TURN ON. SIGNAL TURN ON SHALL BE SCHEDULED BETWEEN 9 AND 10 A.M. A FACTORY REPRESENTIVE SHALL BE PRESENT DURING TURN ON.

  14. ALL CONDUIT SHALL BE PERSENT DURING TURN ON.

  15. THE ENGINEER SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO SIGNAL TURN ON. SIGNAL TURN ON. SHALL BE STREED SHALL BE FORE SHALL BE FORE SHALL BE FORE SHALL BE FORE

DESIGNED - JDA	REVISED -	TOWN OF NORMAL	SIGNAL PLAN	VIRGINIA AVENUE OVER SUGAR CREEK SECTION 04-00226-00-BR MCLEAN, COUNTY	F.A.U. SECTION	COUNTY TOTAL SHEET SHEETS NO.
DRAWN - DRR	REVISED -				6356 04-00226-00-BR	MCLEAN 52 19
CHECKED - PJM	REVISED -				S.N. 057-7834	CONTRACT NO. 91416

CODE NO.

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