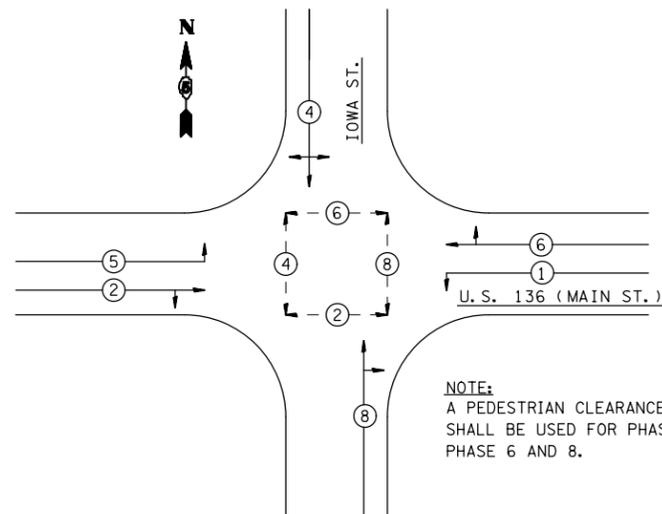


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	*	VERMILION	298	118
* 36(W,RS-1) & 34Z-(W,RS) CONTRACT #90939				



**NOTE:** PEDESTRIAN PUSH-BUTTON SIGNS SHALL BE MOUNTED ABOVE THE PEDESTRIAN PUSH-BUTTONS. THE SIGNS SHALL BE BOLTED TO THE POSTS. THE SIGNS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTONS IN ACCORDANCE WITH SECTION 888 OF THE STANDARD SPECIFICATIONS.

**PEDESTRIAN PUSH-BUTTON SIGN DETAIL**



**NOTE:** A PEDESTRIAN CLEARANCE INTERVAL OF 26 SECONDS SHALL BE USED FOR PHASE 2 & 4, 24 SECONDS FOR PHASE 6 AND 8.

**PHASE DESIGNATION DIAGRAM**

LOOP INDUCTANCE DATA				
U.S. 136 & Iowa St.				
Loop	Length	Width	Required No. of Turns	Delay (sec.)
A1-2	6	6	4	
A3-4	6	6	4	10
B1-2	6	6	3	
B3-4	6	6	3	10
C1-3	6	6	4	
C4-5	6	6	5	
D1-3	6	6	3	
D4-5	6	6	5	

THE FOLLOWING LOOPS SHALL BE WIRED TO COMMON AMPLIFIERS: (A1-2), (A3-4), (B1-2), (B3-4), (C1-3), (C4-5), (D1-3), (D4-5)

THE CONTROLLER SHALL BE SET TO MINIMUM RECALL - U.S. 136 (MAIN ST.)

**BILL OF MATERIALS**

**U.S. 136 (MAIN ST.) & IOWA STREET**

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION, TYPE A	EACH	1.0
HANDHOLE	EACH	8.0
DOUBLE HANDHOLE	EACH	1.0
GULFBOX JUNCTION REMOVAL	EACH	1.0
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	2.0
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1.0
MASTER CONTROLLER	EACH	1.0
UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1.0
TRANSCEIVER - FIBER OPTIC	EACH	1.0
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	2.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	2.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8.0
TRAFFIC SIGNAL BACKPLATE	EACH	12.0
INDUCTIVE LOOP DETECTOR	EACH	8.0
PEDESTRIAN PUSH-BUTTON	EACH	8.0
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING HANDHOLE	EACH	6.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7.0
UNDERGROUND CONDUIT, PVC, 25MM DIA.	METER	51.0
UNDERGROUND CONDUIT, PVC, 40MM DIA.	METER	4.0
UNDERGROUND CONDUIT, PVC, 50MM DIA.	METER	173.0
UNDERGROUND CONDUIT, PVC, 65MM DIA.	METER	25.0
UNDERGROUND CONDUIT, PVC, 75MM DIA.	METER	50.0
UNDERGROUND CONDUIT, PVC, 100MM DIA.	METER	26.0
UNDERGROUND CONDUIT, PVC, 150MM DIA.	METER	1.0
CONDUIT ATTACHED TO STRUCTURE, 40MM DIA., GALVANIZED STEEL	METER	2.0
CONDUIT ATTACHED TO STRUCTURE, 50MM DIA., GALVANIZED STEEL	METER	2.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	METER	241.0
LIGHT POLE, WOOD, 10.67 METER, CLASS 3	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	435.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	416.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	335.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	METER	519.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	8.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR NO. 6 1 C	METER	190.0
TRAFFIC SIGNAL POST, ALUMINUM 3.65 METER	EACH	1.0
TRAFFIC SIGNAL POST, ALUMINUM 4.25 METER	EACH	1.0
TRAFFIC SIGNAL POST, ALUMINUM 4.85 METER	EACH	2.0
STEEL MAST ARM ASSEMBLY AND POLE, 9.75 METER	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE, 11.58 METER	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 12.19 METER	EACH	2.0
CONCRETE FOUNDATION, TYPE A	METER	3.7
CONCRETE FOUNDATION, TYPE C	METER	1.1
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	14.8
DETECTOR LOOP, TYPE I	METER	234.0

**GENERAL NOTES**

- THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE: (A2, A3), (B2, B3), (C2, C3), (C4, C5), (D2, D3) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE IT'S OWN INDIVIDUAL CABLE FROM THE ACCESS HOLE AT BASE OF MAST POLE TO THE SIGNAL HEAD.
- THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 600 mm OF THE FACE OF CURB.
- ALL MAST ARM POLES SHALL BE A MINIMUM OF 1.8 m FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.
- ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
- THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
- PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
- THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.

8/17/2012