

CONTROLLER SEQUENCE

WEST FRONTAGE CONNECTOR
ARSENAL RD.

LEGEND

- ◻ SINGLE ENTRY PHASE
- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 4 + 5	
B	= 6 + 4	

EMERGENCY VEHICLE PRE-EMPTION SEQUENCE

WEST FRONTAGE CONNECTOR
ARSENAL RD.

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	↓ ↔

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	13		17	0.50	110.50
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW	16		25	1.00	19.20
CONTROLLER	1		100	1.00	100.00
FLASHER	1		25	0.50	12.50

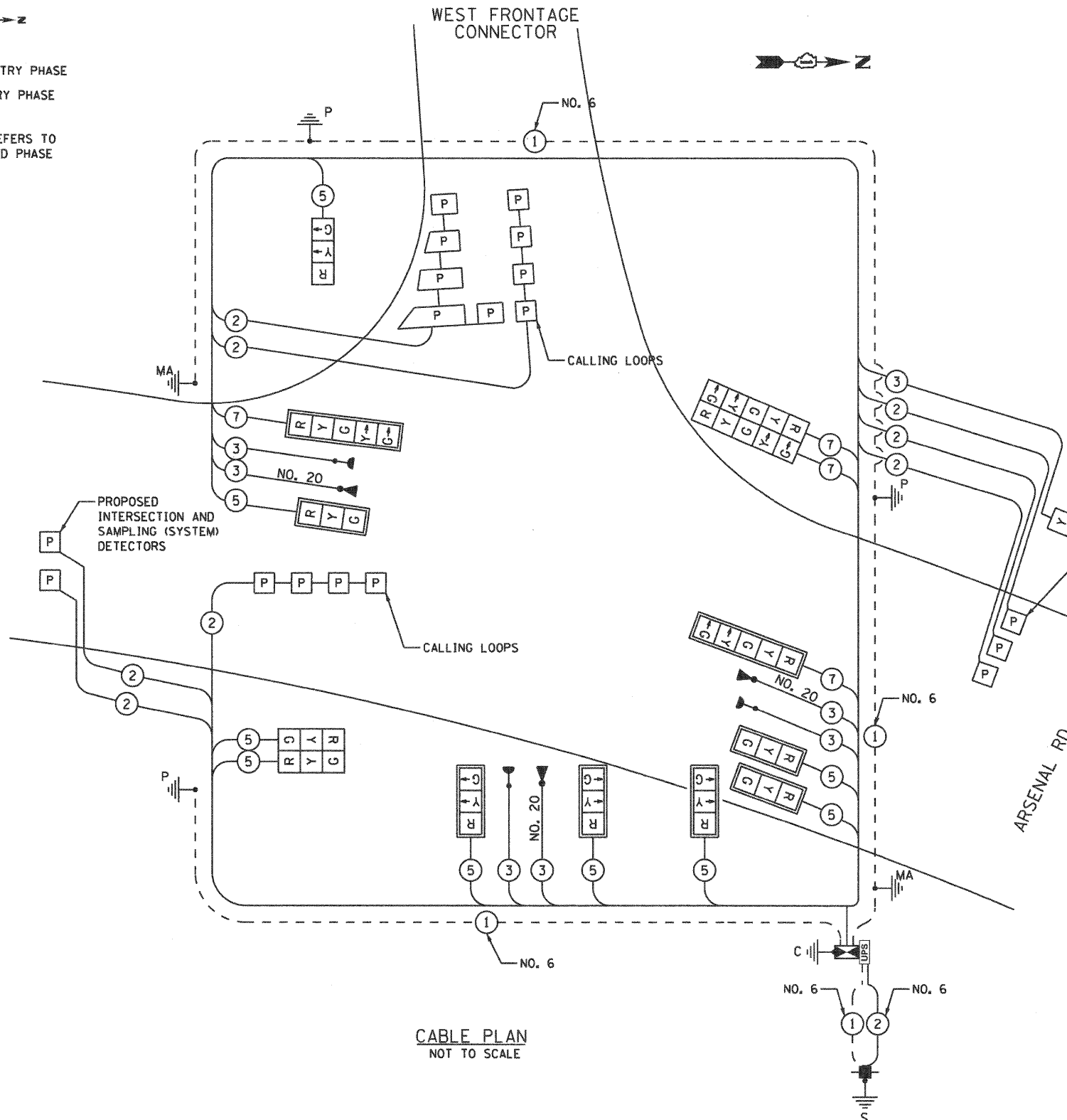
ENERGY COSTS TO: TOTAL = 332.20

WILL COUNTY DEPARTMENT OF HIGHWAYS

16841 LARAWAY ROAD
JOLIET, ILLINOIS 60433

ENERGY SUPPLY CONTACT: **MS. BETTY BRULO**
PHONE: 815-724-5052
COMPANY: COMED

WEST FRONTAGE CONNECTOR



CABLE PLAN
NOT TO SCALE

SCHEDULE OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	544
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	164
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	22
81000900	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL	FOOT	19
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	20
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	92
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	230
81400100	HANDHOLE	EACH	5
81400200	HEAVY-DUTY HANDHOLE	EACH	2
81400300	DOUBLE HANDHOLE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	769
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200200	UNINTERRUPTIBLE POWER SUPPLY, STANDARD	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1007
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1360
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	810
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2827
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2/C	FOOT	59
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	2
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	1
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	27
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88040030	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED	EACH	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88500100	INDUCTIVE LOOP DETECTOR	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
Z0033060	PREFORMED DETECTOR LOOP	FOOT	788
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C	FOOT	1130
	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	538
	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 40 FT.	FOOT	1

EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607



FILE NAME = ...\\0160F12-SHT-TR08-22.dgn	USER NAME = grs1	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 02/04/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
WEST FRONTAGE CONNECTOR AND ARSENAL ROAD

SCALE: NONE SHEET NO. 9 OF 9 SHEETS

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 346
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	