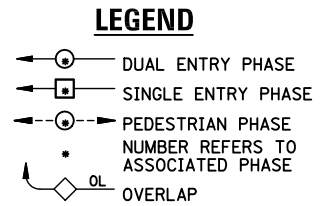
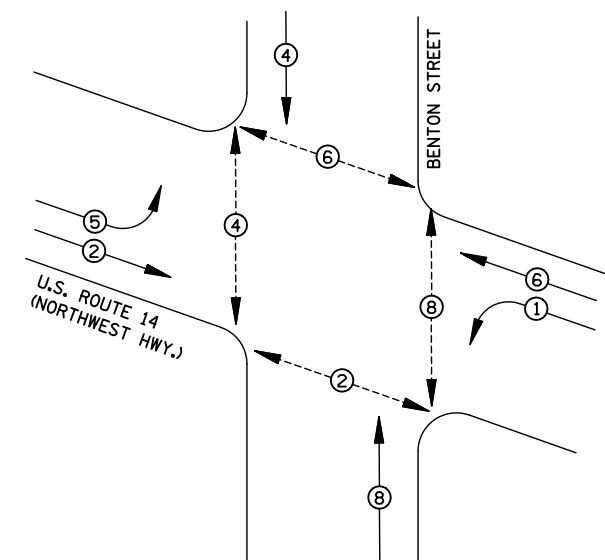
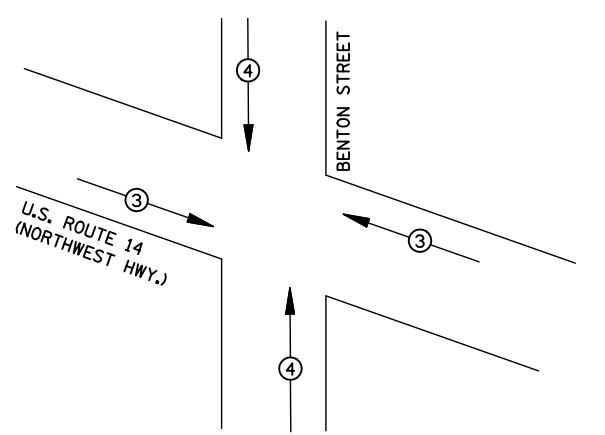


**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM**



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	←	↑	

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER		135	25	0.50	

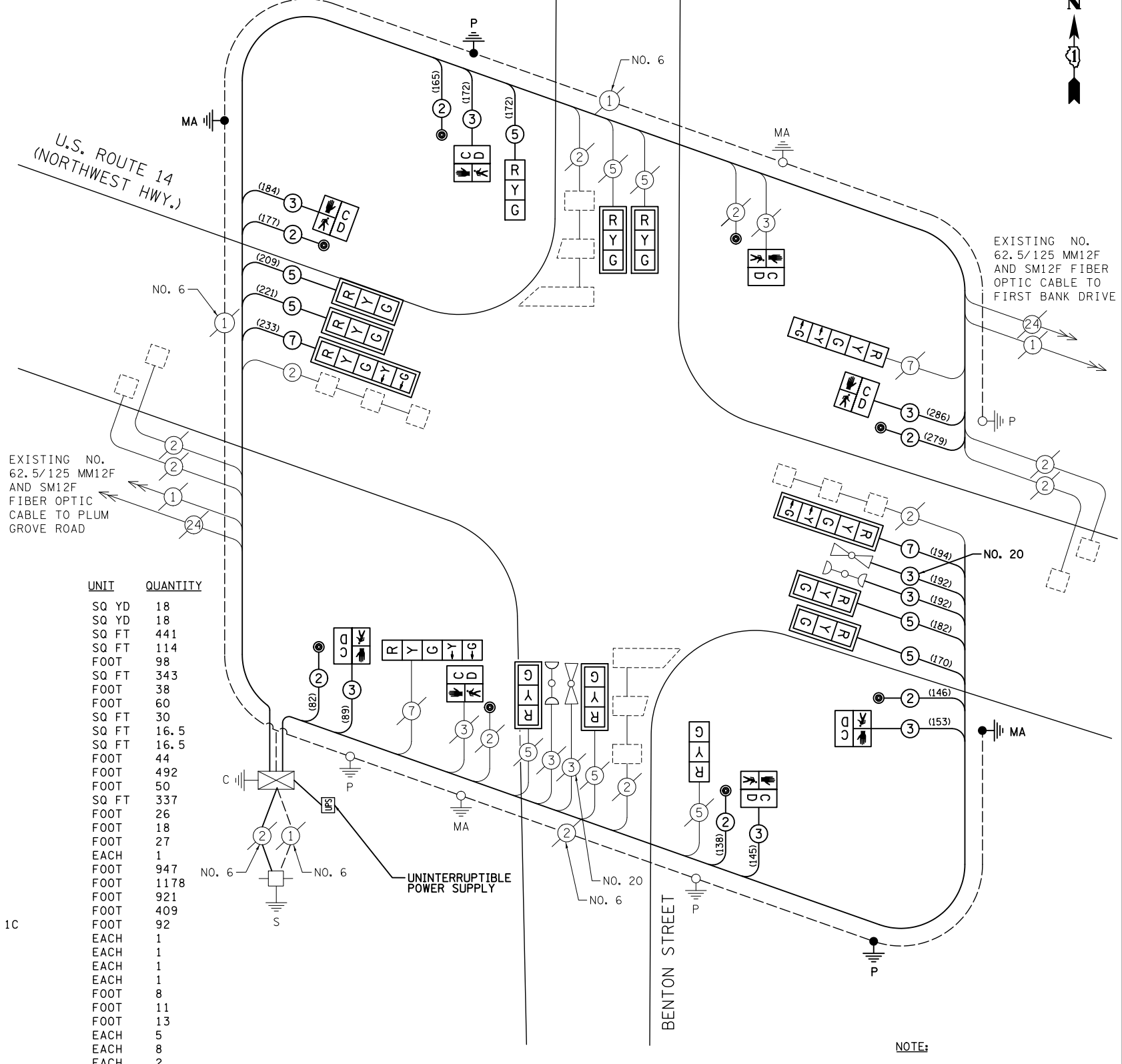
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 201 W. CENTER COURT  
 SCHAUMBURG, IL 60196

ENERGY SUPPLY CONTACT: DAVE SCHACHT  
 PHONE: 1-(630) 847-2129  
 COMPANY: COMED

TOTAL = 568.6

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	18
SODDING, SALT TOLERANT	SQ YD	18
PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SQ FT	441
DETECTABLE WARNINGS	SQ FT	114
COMBINATION CURB AND GUTTER REMOVAL	FOOT	98
SIDEWALK REMOVAL	SQ FT	343
COMBINATION CONCRETE CURB AND GUTTER B-6.12	FOOT	38
COMBINATION CONCRETE CURB AND GUTTER B-6.24	FOOT	60
SIGN PANEL, TYPE 1	SQ FT	30
REMOVE SIGN PANEL - TYPE 1	SQ FT	16.5
RELOCATE SIGN PANEL - TYPE 1	SQ FT	16.5
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	44
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	492
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50
PAVEMENT MARKING REMOVAL	SQ FT	337
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	26
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	18
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	27
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	947
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1178
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	921
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	409
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	92
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	11
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
PEDESTRIAN PUSH BUTTON	EACH	8
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2487
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	189
UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED	EACH	1
100% COST TO THE VILLAGE OF PALATINE		



**CABLE PLAN**

NOTE:  
 (XXX) DENOTES CABLE LENGTH TO CONTROLLER CABINET WITH SLACK CABLE.

TS# 1190

FILE NAME = \MICROST\352103\ US 14 @ BENTN CAB.DGN  
 USER NAME = JGC  
 PLOT SCALE = 1"=20'  
 PLOT DATE = 03-07-13

DESIGNED - BPT	REVISED -
DRAWN - RDS/JGC	REVISED -
CHECKED - BPT	REVISED -
DATE - 03-07-13	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES, CABLE PLAN  
 AND PHASE DESIGNATION DIAGRAM  
 U.S. ROUTE 14 (NORTHWEST HWY.) AT BENTON STREET**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

PREPARED BY:  
**CEMCON, Ltd.**  
 Consulting Engineers, Land Surveyors & Planners  
 2280 White Oak Circle, Suite 100  
 Aurora, Illinois 60504-9675  
 Ph: 630.862.2100 Fax: 630.862.2199  
 E-Mail: cadd@cemcon.com Website: www.cemcon.com

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2012-042 TS	COOK	36	23

CONTRACT NO. 60T90  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT