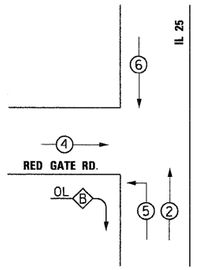
CONTROLLER SEQUENCE

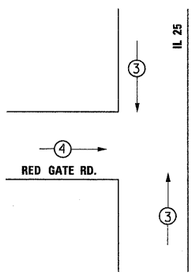


LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * - NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

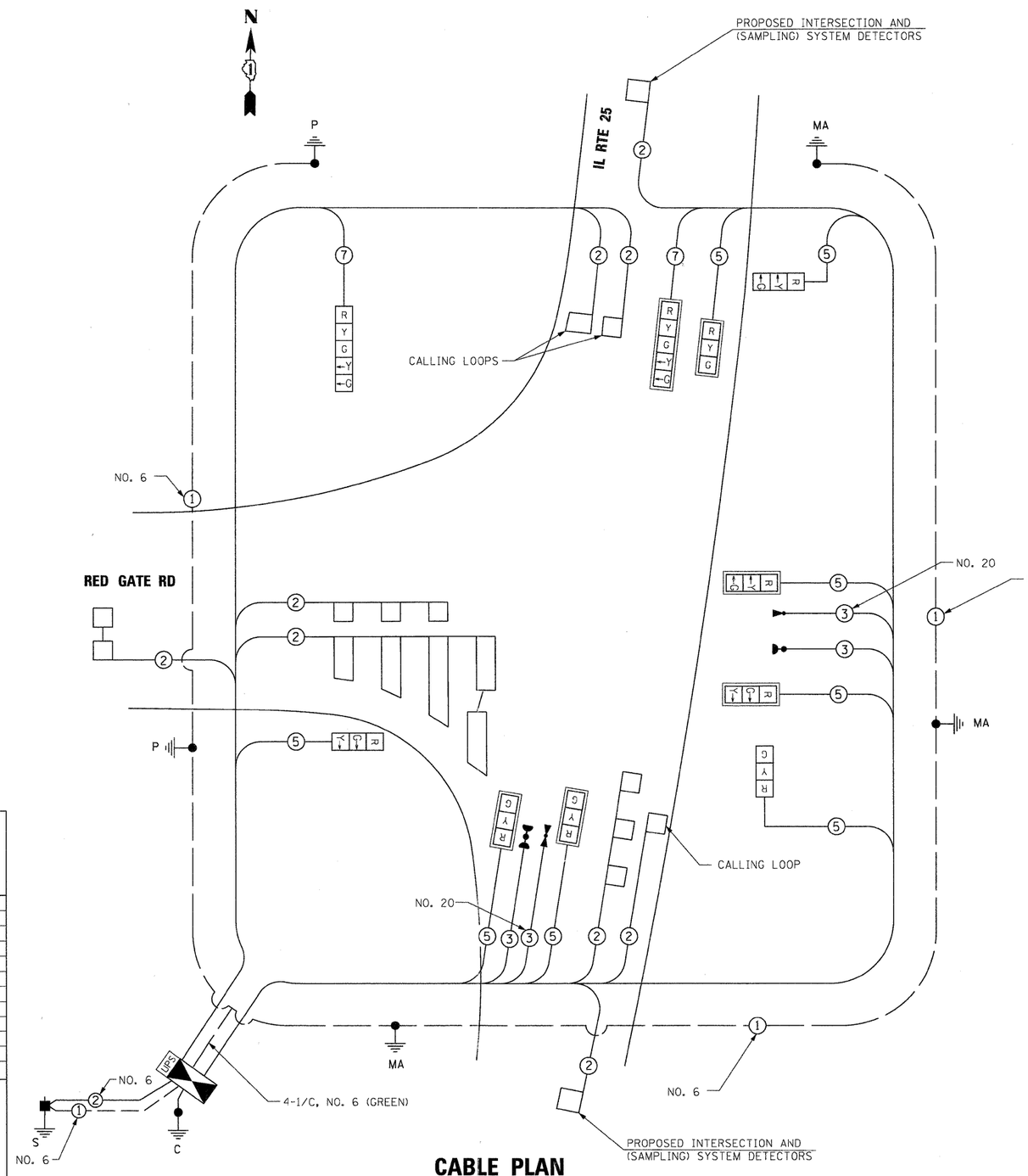


PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↓ ↑	← →

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	10	-	17	0.50	85.00
(YELLOW)	10	-	25	0.25	62.50
(GREEN)	10	-	15	0.25	37.50
ARROW	4	-	12	0.10	4.80
PED. SIGNAL	0	-	25	1.00	0.00
CONTROLLER	1		100	1.00	100.00
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	289.80

ILLINOIS DEPARTMENT OF TRANSPORTATION

201 W. CENTER COURT
SCHAMBURG, ILLINOIS 60196
ENERGY SUPPLY CONTACT: GLYNN AMBURGEY
PHONE: 630-377-4407
CITY OF ST. CHARLES



CABLE PLAN

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

NOTE:
ALL DETECTOR LOOPS AT THIS INTERSECTION ARE TYPE I EXCEPT THE RED GATE SYSTEM DETECTOR LOOPS.

* 100% OF EVP COSTS TO THE CITY OF ST. CHARLES

SUMMARY OF QUANTITES

DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ.FT	24.0
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	832
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	37
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	270
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	193
HANDHOLE	EACH	6
HEAVY DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNITERRUPTIBLE POWER SUPPLY, STANDARD	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	922
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	434
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR, TWISTED SHIELDED	FOOT	1,720
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C	FOOT	46
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO.6 1C	FOOT	397
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	24
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
SIGNAL HEAD LED 1-FACE 3-SECTION MAST ARM MOUNTED	EACH	5
SIGNAL HEAD LED 1-FACE 3-SECTION BRACKET MOUNTED	EACH	3
SIGNAL HEAD LED 1-FACE 5-SECTION BRACKET MOUNTED	EACH	1
SIGNAL HEAD LED 1-FACE 5-SECTION MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	931
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3C, TWISTED SHIELDED	FOOT	307

PLOT SCALE: 1:20
X:\12020\5\12092\Local_Workspace\Plots\DRV3mm.PDF\VE FULL SIZE.plt
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FILE NAME =	DESIGNED - BC	REVISED -	
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USER NAME = toddblank	CHECKED - MPM	REVISED -	
PLOT DATE = 11/22/2011	DATE - 10/23/2011	REVISED -	

benesch engineers · scientists · planners

ST. CHARLES SINCE 1842

CITY OF ST. CHARLES

TRAFFIC SIGNAL CABLE PLAN
IL 25 AT RED GATE RD

SCALE: | SHEET NO. 12 OF 12 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	198
		CONTRACT NO. 63650		
	ILLINOIS	FED. AID PROJECT		