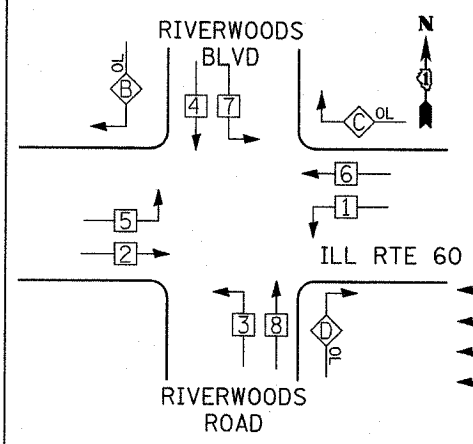


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	119R-2	LAKE	439	191
STA. 432+83.12		TO STA. 470+56.84		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
60B01				

CONTROLLER SEQUENCE



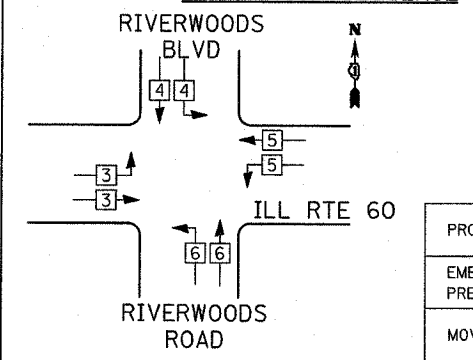
- LEGEND**
- SINGLE ENTRY PHASE
 - DUAL ENTRY PHASE
 - OVERLAP
 - PEDESTRIAN PHASE
 - NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B =	4	+ 5
C =	6	+ 7
D =	8	+ 1

EMERGENCY VEHICLE PREEMPTION SEQUENCE

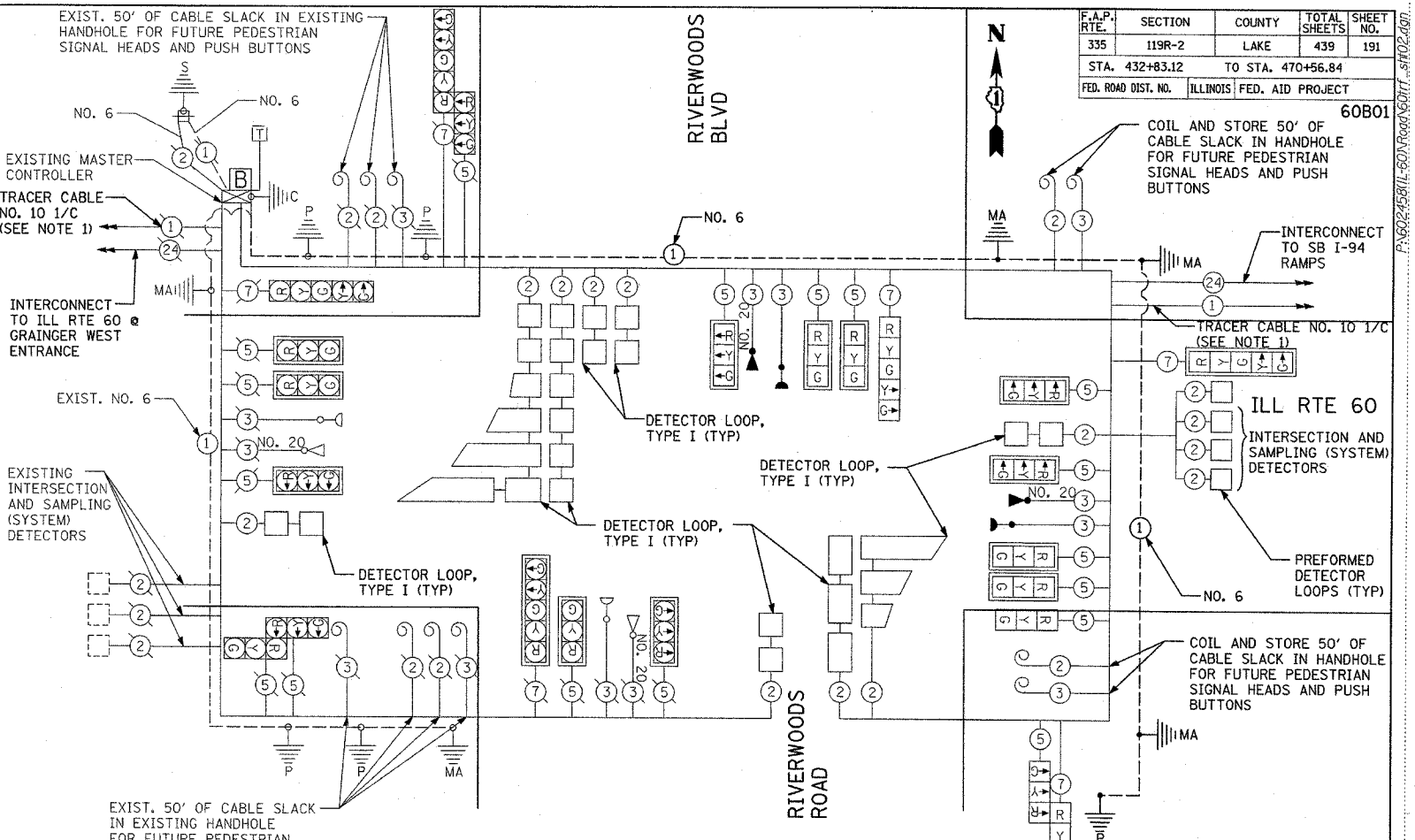


PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	←	↑

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	276
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	36
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	54
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	469
HANDHOLE	EACH	3
HEAVYDUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
DRILL EXISTING HANDHOLE	EACH	7
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1170
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	646
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1388
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3615
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1195
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5710
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E	FOOT	45
30-INCH DIAMETER SIGNAL HEAD, L.E.D., 1-FACE, 3 SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5 SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, L.E.D., 1-FACE, 3 SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 5 SECTION, MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACK PLATE, LOUVERED	EACH	8
INDUCTIVE LOOP DETECTOR	FOOT	13
DETECTOR LOOP, TYPE I	FOOT	1340
PREFORMED DETECTOR LOOPS	FOOT	193
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	551
ELECTRICAL CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	742
SIGN PANEL - TYPE 1	SQ FT	20
RELOCATE EXISTING SIGNAL HEAD	EACH	3
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
UNINTERRUPTABLE POWER SUPPLY	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1



CABLE PLAN LEGEND

- | | | | | |
|--|-----------------|--|-----------------|---|
| | EXISTING | | PROPOSED | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | EXISTING | | PROPOSED | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | EXISTING | | PROPOSED | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | EXISTING | | PROPOSED | CONTROLLER CABINET |
| | EXISTING | | PROPOSED | SERVICE INSTALLATION |
| | EXISTING | | PROPOSED | TELEPHONE CONNECTION |
| | EXISTING | | PROPOSED | MAGNETIC DETECTOR |
| | EXISTING | | PROPOSED | EMERGENCY VEHICLE LIGHT DETECTOR |
| | EXISTING | | PROPOSED | CONFIRMATION BEACON |
| | EXISTING | | PROPOSED | PUSHBUTTON DETECTOR |
| | EXISTING | | PROPOSED | VEHICLE DETECTOR, INDUCTION LOOP |
| | EXISTING | | PROPOSED | DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | EXISTING | | PROPOSED | RAILROAD CONTROL CABINET |
| | EXISTING | | PROPOSED | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" |
| | EXISTING | | PROPOSED | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" |
| | EXISTING | | PROPOSED | GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER |
| | EXISTING | | PROPOSED | GROUND ROD AT POST OR MAST ARM POLE |
| | EXISTING | | PROPOSED | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | EXISTING | | PROPOSED | GROUND CABLE IN CONDUIT, NO.6 SOLID COPPER (GREEN) |
| | EXISTING | | PROPOSED | FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F & SM12F |
| | EXISTING | | PROPOSED | UNINTERRUPTABLE POWER SUPPLY (UPS) |

NOTES:

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

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

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	15	135	17	0.50	127.5
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW	36	135	12	0.10	43.2
PED. SIGNAL	0	90	25	1.00	0
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	0			0.05	0
FLASHER	0			0.05	0

ENERGY COSTS TO: TOTAL = 420.7

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: JOHN PRIBICH
 PHONE: 630-437-2212
 COMPANY: COMED

FOUNDATION (DEPTH)	FT.	(m)	CABLE SLACK	FT.	(m)	VERTICAL	FT.	(m)
TYPE A - POST	4	(1.2)	HANDHOLE	6.5	(2.0)	ALL FOUNDATIONS	3.5	(1.0)
D - CONTROLLER	4	(1.2)	DOUBLE HANDHOLE	13	(4.0)	MAST ARM (L) POLE	20'+ L-2 =	(6m+L-0.6m)
E - MAST ARM POLE			SIGNAL POST	2	(1.0)			
	24"	(600mm)	CONTROLLER CAB.	1	(0.5)	BRACKET MOUNTED	13	(4.0)
	30"	(750mm)	FIBER OPTIC	13	(4.0)	PED. PUSHBUTTON	4	(1.2)
			ELECTRIC SERVICE	1	(0.5)	ELECTRIC SERVICE	13.5	(4.1)
			GROUND CABLE	1	(0.5)	SERVICE TO GROUND	13.5	(4.1)
						POST MOUNTED	6	(1.8)

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS RTE 60 OVER I-94
SCHEDULE OF QUANTITIES, CABLE PLAN,
AND PHASE DESIGNATION DIAGRAM
ILL RTE. 60 AND RIVERWOODS ROAD/BLVD.

SCALE: NONE
 DATE: MAY 8, 2007

DRAWN BY: CBS
 CHECKED BY: DMJ

TYLIN INTERNATIONAL