

PAY CODE	SUMMARY OF TRAFFIC SIGNAL QUANTITIES	UNIT	TOTAL	CONSTRUCTION TYPE CODE Y-031-1F					
				IL 126 @	IL 171 @	IL 53 @	IL 53 @	IL 53 @	IL 53 @
NUMBER	ITEM		QUANTITY	ESSINGTON RD	WOODRUFF RD	THEODORE ST	MURPHY DR	BELMONT DR	JOLIET RD
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5		1	1	1	1	1
67100100	MOBILIZATION	L SUM	1	0.16	0.17	0.17	0.17	0.17	0.16
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.16	0.17	0.17	0.17	0.17	0.16
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.16	0.17	0.17	0.17	0.17	0.16
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.16	0.17	0.17	0.17	0.17	0.16
* 72000100	SIGN PANEL, TYPE 1	SQ FT	50				13	13	24
* 72400710	RELOCATE SIGN PANEL-TYPE 1	SQ FT	40				12	12	16
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	30						30
* 78000400	THERMOPLASTIC PAVEMENT MARKING-LINE 6"	FOOT	930		310	620			
* 78000600	THERMOPLASTIC PAVEMENT MARKING-LINE 12"	FOOT	197				82	115	
* 78000650	THERMOPLASTIC PAVEMENT MARKING-LINE 24"	FOOT	344		80	143			121
* 78300400	THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	371		90	126		34	121
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	519				189	222	108
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	524				194	222	108
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	1	1	1	1	1	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1				
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1					1	
85700505	FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL	EACH	2				1		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2347				1225	931	181
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	7385		279	690	2137	2168	2111
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1957			65	478	1198	216
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	336		126	128	19	12	51
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4084				1352	1823	909
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	7		4		2		1
87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	2			2			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6		2	2		1	1
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2				1		1
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2					2	
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1						1
<del>87700250</del>	<del>STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.</del>	<del>EACH</del>	<del>1</del>						<del>1</del>
87702840	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1				1		1
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1					1	
87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1				1		
87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1					1	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20				12	4	4
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	45				15	30	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	75				15	30	30
87900200	DRILL EXISTING HANDHOLE <i>(POWERED)</i>	EACH	5					3	2
X8803000	SIGNAL HEAD, LED, 1-FACE, SOLAR POST MOUNTED	EACH	1	1					
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	21		2	3	4	7	5
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9		4		4	1	
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2			2			
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	7				1	3	1
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	9		2	3	1	3	
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1						1
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1			1			
88030230	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2			2			
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2			1			1
88030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1						1
88102747	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		4	4			
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	33		4	8	5	10	6
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		4	4			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	15028				5189	6109	3730
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	302		140	162			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5		1	1	1	1	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	14				4.0	5.0	5.0
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	611		122.2	122.2	122.2	122.2	122.2
X0324183	CLEAN EXISTING ELECTRICAL MANHOLE OR HANDHOLE	EACH	4				4		
X8050015	SERVICE INSTALLATION-POLE MOUNTED	EACH	5		1	1	1	1	1
X8440102	RELOCATE EXISTING LUMINAIRE	EACH	4				2	2	
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	FOOT	2243		510	128	431	508	666
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	1198				650	357	191
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	5		1	1	1	1	1
X8950200	REBUILD EXISTING HANDHOLE	EACH	4				2	1	1
<del>87000190</del>	<del>STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.</del>	<del>EACH</del>	<del>1</del>						<del>1</del>

\*Specialty Items

FILE NAME = \MICROST\352872\ 03-SUMMARY  
 USER NAME = RDS  
 PLOT SCALE = 1"=20'  
 PLOT DATE = 03-18-09

DESIGNED - KK  
 DRAWN - RDS  
 CHECKED - BPT  
 DATE - 03-18-09  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

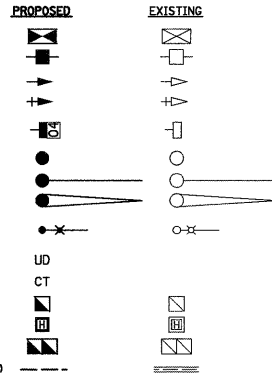
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

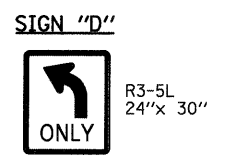
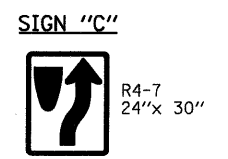
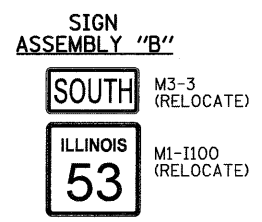
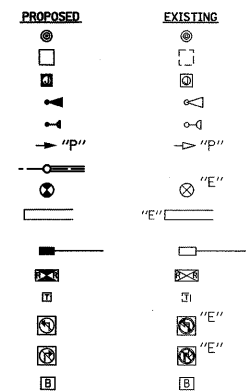
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2009-039 TS	WILL	20	3
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G44	

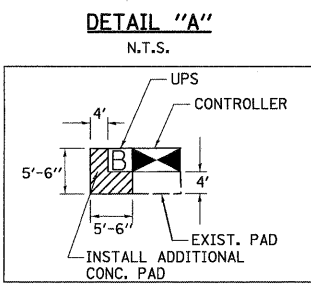
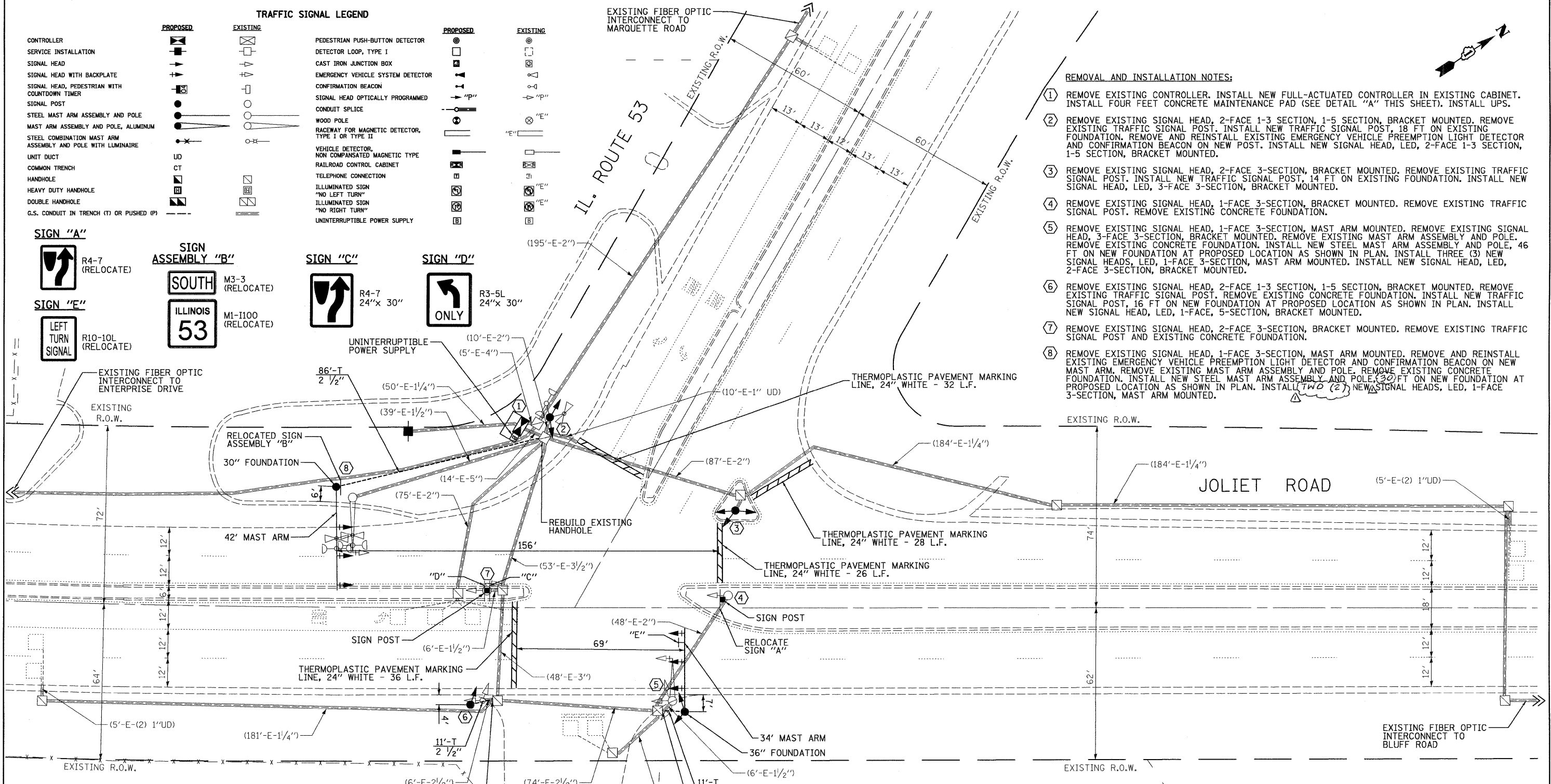
- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN WITH COUNTDOWN TIMER
- SIGNAL POST
- STEEL MAST ARM ASSEMBLY AND POLE
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE
- UNIT DUCT
- COMMON TRENCH
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)



- PEDESTRIAN PUSH-BUTTON DETECTOR
- DETECTOR LOOP, TYPE I
- CAST IRON JUNCTION BOX
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONFIRMATION BEACON
- SIGNAL HEAD OPTICALLY PROGRAMMED
- CONDUIT SPLICE
- WOOD POLE
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
- RAILROAD CONTROL CABINET
- TELEPHONE CONNECTION
- ILLUMINATED SIGN "NO LEFT TURN"
- ILLUMINATED SIGN "NO RIGHT TURN"
- UNINTERRUPTIBLE POWER SUPPLY



- REMOVAL AND INSTALLATION NOTES:**
- REMOVE EXISTING CONTROLLER. INSTALL NEW FULL-ACTUATED CONTROLLER IN EXISTING CABINET. INSTALL FOUR FEET CONCRETE MAINTENANCE PAD (SEE DETAIL "A" THIS SHEET). INSTALL UPS.
  - REMOVE EXISTING SIGNAL HEAD, 2-FACE 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST. INSTALL NEW TRAFFIC SIGNAL POST, 18 FT ON EXISTING FOUNDATION. REMOVE AND REINSTALL EXISTING EMERGENCY VEHICLE PREEMPTION LIGHT DETECTOR AND CONFIRMATION BEACON ON NEW POST. INSTALL NEW SIGNAL HEAD, LED, 2-FACE 1-3 SECTION, BRACKET MOUNTED.
  - REMOVE EXISTING SIGNAL HEAD, 2-FACE 3-SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST. INSTALL NEW TRAFFIC SIGNAL POST, 14 FT ON EXISTING FOUNDATION. INSTALL NEW SIGNAL HEAD, LED, 3-FACE 3-SECTION, BRACKET MOUNTED.
  - REMOVE EXISTING SIGNAL HEAD, 1-FACE 3-SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST. REMOVE EXISTING CONCRETE FOUNDATION.
  - REMOVE EXISTING SIGNAL HEAD, 1-FACE 3-SECTION, MAST ARM MOUNTED. REMOVE EXISTING SIGNAL HEAD, 3-FACE 3-SECTION, BRACKET MOUNTED. REMOVE EXISTING MAST ARM ASSEMBLY AND POLE. REMOVE EXISTING CONCRETE FOUNDATION. INSTALL NEW STEEL MAST ARM ASSEMBLY AND POLE, 46 FT ON NEW FOUNDATION AT PROPOSED LOCATION AS SHOWN IN PLAN. INSTALL THREE (3) NEW SIGNAL HEADS, LED, 1-FACE 3-SECTION, MAST ARM MOUNTED. INSTALL NEW SIGNAL HEAD, LED, 2-FACE 3-SECTION, BRACKET MOUNTED.
  - REMOVE EXISTING SIGNAL HEAD, 2-FACE 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST. REMOVE EXISTING CONCRETE FOUNDATION. INSTALL NEW TRAFFIC SIGNAL POST, 16 FT ON NEW FOUNDATION AT PROPOSED LOCATION AS SHOWN IN PLAN. INSTALL NEW SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED.
  - REMOVE EXISTING SIGNAL HEAD, 2-FACE 3-SECTION, BRACKET MOUNTED. REMOVE EXISTING TRAFFIC SIGNAL POST AND EXISTING CONCRETE FOUNDATION.
  - REMOVE EXISTING SIGNAL HEAD, 1-FACE 3-SECTION, MAST ARM MOUNTED. REMOVE AND REINSTALL EXISTING EMERGENCY VEHICLE PREEMPTION LIGHT DETECTOR AND CONFIRMATION BEACON ON NEW MAST ARM. REMOVE EXISTING MAST ARM ASSEMBLY AND POLE. REMOVE EXISTING CONCRETE FOUNDATION. INSTALL NEW STEEL MAST ARM ASSEMBLY AND POLE, 30 FT ON NEW FOUNDATION AT PROPOSED LOCATION AS SHOWN IN PLAN. INSTALL TWO (2) NEW SIGNAL HEADS, LED, 1-FACE 3-SECTION, MAST ARM MOUNTED.



- 5" THICK CONCRETE PAD SHALL BE POURED NEXT TO NEW CONTROLLER AND /OR UPS TO PROVIDE EASY MAINTENANCE ACCESS.
  - MAINTENANCE PAD SHALL EXTEND TO THE EDGE OF EXISTING CONTROLLER FOUNDATION.
  - COST OF PAD SHALL BE INCLUDED IN THE PRICE OF THE UNINTERRUPTIBLE POWER SUPPLY PAY ITEM.
- NOTE:**  
THE WORK SHOWN IN DETAIL "A" SHALL BE INCLUDED IN THE COST FOR THE U.P.S. EQUIPMENT.

**NOTE:**  
THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.

**NOTE:**  
CONTRACTOR SHALL REINSTALL "EVP" EQUIPMENT WHERE SHOWN TO NEW MAST ARM OR TRAFFIC SIGNAL POST AND CABINET. THIS WORK SHALL BE INCLUDED IN COST FOR "FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL".

**NOTE:**  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

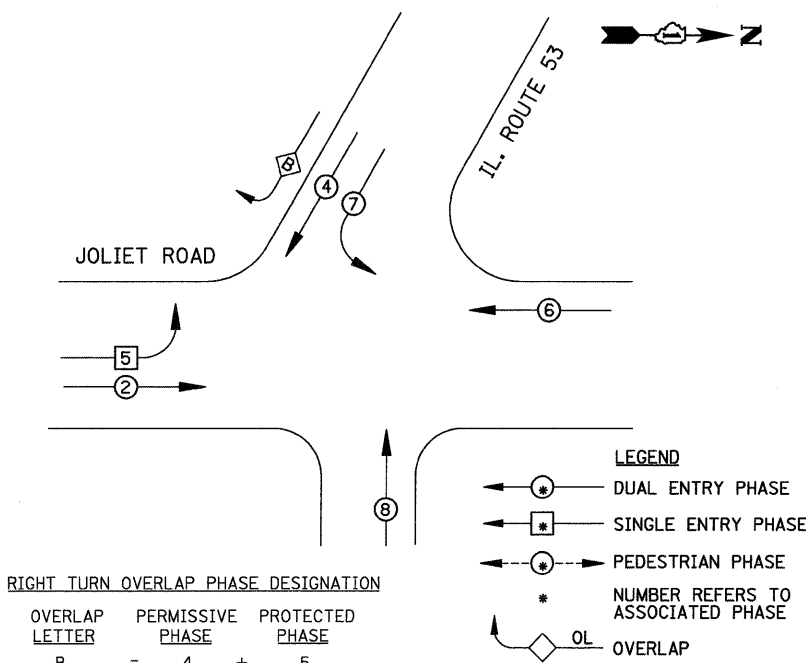
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER
- 3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3-SECTION, 1-5-SECTION
- 1 EACH SIGNAL HEAD, 3-FACE, 3-SECTION
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH TRAFFIC SIGNAL POST
- 2 EACH MAST ARM ASSEMBLY AND POLE
- 1 EACH SERVICE INSTALLATION

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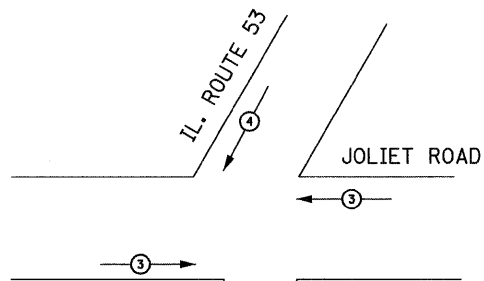
FILE NAME = \MICROST\352072\ RT53 @JOLIET SIG.DGN	USER NAME = RDS	DESIGNED - KK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL MODIFICATION PLAN IL. ROUTE 53 AT JOLIET ROAD</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - RDS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	2009-039 TS	WILL	20	17	
		CHECKED - BPT	REVISED -											
		DATE - 03-18-09	REVISED -											
										CONTRACT NO. 60G44			ILLINOIS FED. AID PROJECT	

**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**PROPOSED EMERGENCY VEHICLE PREEMPTOR**

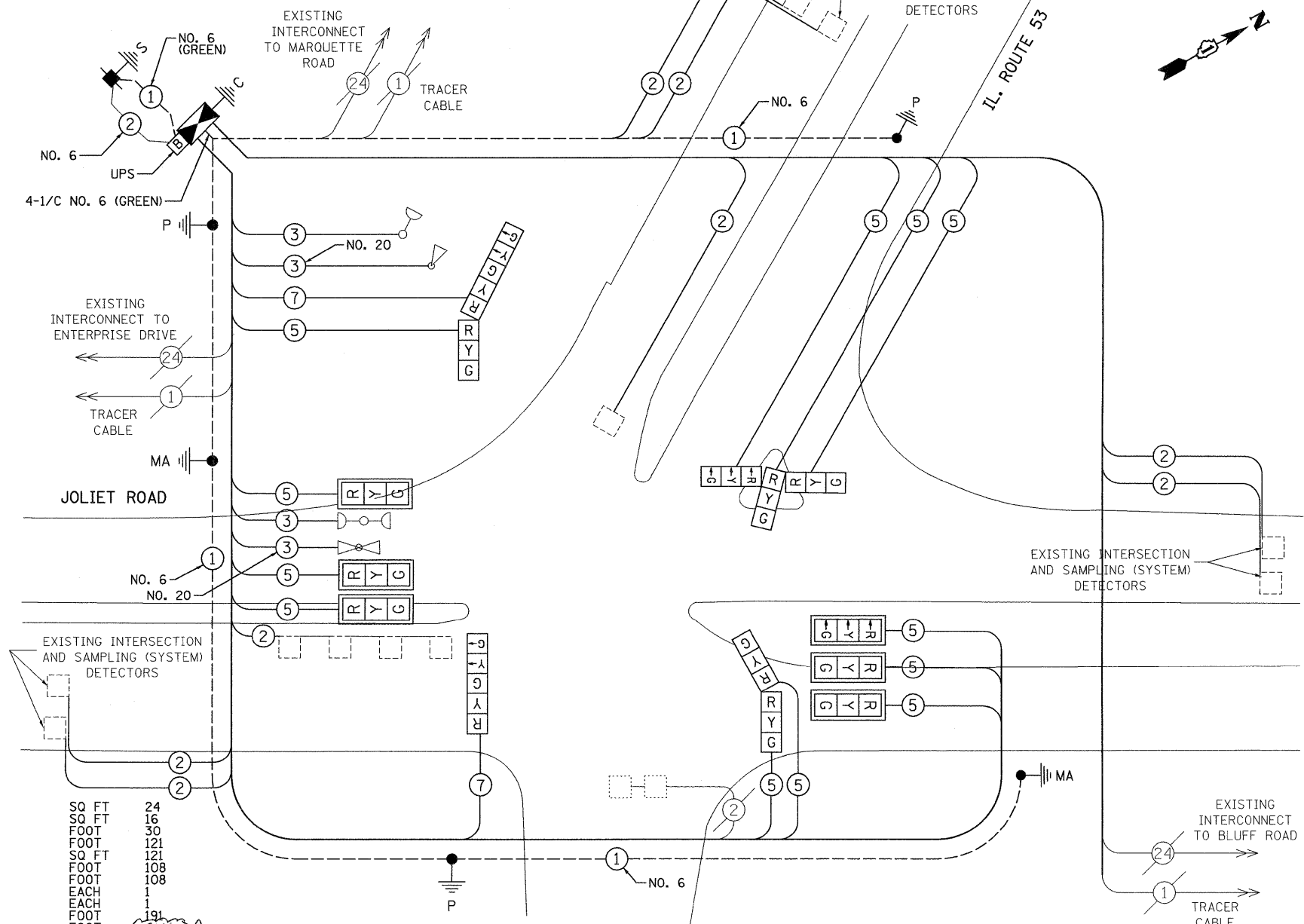
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

**CABLE PLAN LEGEND**

- EXISTING: 8" (200mm) TRAFFIC SIGNAL SECTION, 12" (300mm) TRAFFIC SIGNAL SECTION, 12" (300mm) PEDESTRIAN SIGNAL SECTION, 12" (300mm) PEDESTRIAN SIGNAL SECTION, CONTROLLER CABINET, SERVICE INSTALLATION, TELEPHONE CONNECTION, MAGNETIC DETECTOR, EMERGENCY VEHICLE LIGHT DETECTOR, CONFIRMATION BEACON, PUSH-BUTTON DETECTOR, VEHICLE DETECTOR, INDUCTION LOOP, DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED, GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN), FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F, SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD, RAILROAD CONTROL CABINET, ILLUMINATED SIGN "NO LEFT TURN", ILLUMINATED SIGN "NO RIGHT TURN", GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C), GROUND ROD AT POST (P), OR MAST ARM POLE (MA), GROUND ROD AT ELECTRIC SERVICE INSTALLATION, UNINTERRUPTIBLE POWER SUPPLY
- PROPOSED: 8" (200mm) TRAFFIC SIGNAL SECTION, 12" (300mm) TRAFFIC SIGNAL SECTION, 12" (300mm) PEDESTRIAN SIGNAL SECTION, CONTROLLER CABINET, SERVICE INSTALLATION, TELEPHONE CONNECTION, MAGNETIC DETECTOR, EMERGENCY VEHICLE LIGHT DETECTOR, CONFIRMATION BEACON, PUSH-BUTTON DETECTOR, VEHICLE DETECTOR, INDUCTION LOOP, DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED, GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN), FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F, SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD, RAILROAD CONTROL CABINET, ILLUMINATED SIGN "NO LEFT TURN", ILLUMINATED SIGN "NO RIGHT TURN", GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C), GROUND ROD AT POST (P), OR MAST ARM POLE (MA), GROUND ROD AT ELECTRIC SERVICE INSTALLATION, UNINTERRUPTIBLE POWER SUPPLY

**SCHEDULE OF QUANTITIES**

SIGN PANEL, TYPE 1	24	SQ FT
RELOCATE SIGN PANEL, TYPE 1	16	SQ FT
TELESCOPING STEEL SIGN SUPPORT	30	FOOT
THERMOPLASTIC PAVEMENT MARKING, LINE-24"	121	FOOT
THERMOPLASTIC PAVEMENT MARKING REMOVAL	121	FOOT
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	108	FOOT
TRENCH AND BACKFILL FOR ELECTRICAL WORK	108	FOOT
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	1	EACH
FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL	1	EACH
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	191	FOOT
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	216	FOOT
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	216	FOOT
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	51	FOOT
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	909	FOOT
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	1	EACH
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	1	EACH
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	1	EACH
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	1	EACH
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	1	EACH
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	1	EACH
CONCRETE FOUNDATION, TYPE A	4	FOOT
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	30	FOOT
DRILL EXISTING HANDHOLE	2	EACH
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	6	EACH
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	1	EACH
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	1	EACH
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	1	EACH
SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	1	EACH
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	6	EACH
REMOVE ELECTRIC CABLE FROM CONDUIT	3730	FOOT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	1	EACH
REMOVE EXISTING CONCRETE FOUNDATION	5	EACH
SERVICE INSTALLATION, POLE MOUNT	1	EACH
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	666	FOOT
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED & SHIELDED	191	FOOT
UNINTERRUPTIBLE POWER SUPPLY	1	EACH
REBUILD EXISTING HANDHOLE	1	EACH



**CABLE PLAN**

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

TYPE	NO. LAMPS	WATTAGE INCAND. LED	XOPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	135 17	0.50	110.5
(YELLOW)	11	135 25	0.25	68.75
(GREEN)	11	135 15	0.25	41.25
ARROW	8	135 12	0.10	9.6
PED. SIGNAL	90	25	1.00	
CONTROLLER	1	100 100	1.00	100
ILLUM. SIGN		84	0.05	

ENERGY COSTS TO: VILLAGE OF ROMEOVILLE, 13 MONTROSE DRIVE, ROMEOVILLE, IL 60446

ENERGY SUPPLY CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_ COMPANY: \_\_\_\_\_

FLASHER: \_\_\_\_\_ 0.50

TOTAL = 230.1

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.0 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20.0 (6.0)
E - M. ARM POLE		SIGNAL POST	0 (0.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	0 (0.0)	PED. PUSH-BUTTON	6 (2.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	13 (4.0)

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL ROUTE 53 AT JOLIET ROAD**

SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		

PREPARED BY: **CEMCON, Ltd.**  
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FILE NAME = \MICROST\352072\RT53 @JOLIET CAB.DGN  
 USER NAME = RDS  
 DESIGNED - KK  
 DRAWN - RDS  
 CHECKED - BPT  
 DATE - 03-18-09

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2009-039 TS	WILL	20	18
CONTRACT NO. 60G44				