F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE	18	01
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60F54		

D-91-126-09

INDEX OF SHEET

SHEET NO	DESCRIPTION
1	TITLE SHEET
2	SUMMARY OF QUANTITIES
3 – 6	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (4–SHEETS)
7	TRAFFIC SIGNAL MODIFICATION PLAN ILLINOIS ROUTE 38 AT FINLEY ROAD
8	CABLE PLAN MODIFICATION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES ILL. RTE. 38 AT FINLEY RD.
9	TRAFFIC SIGNAL MODIFICATION PLAN ILLINOIS ROUTE 38 AT MAIN ROAD
10	CABLE PLAN MODIFICATION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES ILL. RTE. 38 AT MAIN RD.
11	TRAFFIC SIGNAL MODIFICATION PLAN ILLINOIS ROUTE 38 AT HIGHLAND AVENUE
12	CABLE PLAN MODIFICATION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES ILL. RTE. 38 AT HIGHLAND AVE.
13	TRAFFIC SIGNAL MODIFICATION PLAN ILLINOIS ROUTE 38 AT FAIRFIELD AVENUE
14	CABLE PLAN MODIFICATION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES ILL. RTE. 38 AT FAIRFIELD AVE.
15	TRAFFIC SIGNAL MODIFICATION PLAN ILLINOIS ROUTE 38 AT COMMERCIAL ENTRANCE
16	CABLE PLAN MODIFICATION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES ILL. RTE. 38 AT COMMERCIAL ENTRANCE
17	TRAFFIC SIGNAL MODIFICATION PLAN ILLINOIS ROUTE 38 AT WESTMORE AVENUE / MEYERS ROAD
18	CABLE PLAN MODIFICATION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES ILL. RTE. 38 AT WESTMORE AVE. / MEYERS RD.

STANDARD DRAWINGS

(701006)09	(701011)03	(701101)02	(701301)03	(701901)01
424001	(720001)01	813001	814001	814006
(857001)01	877001	877006	(877011)04	
(878001)07	880001	(880006)01	886001	
606001	(862001)01	880001		

701201	701316	701321	701406
701421	701501	701502	(701601)06
701606	(701701)06	(701801)04	

NOTE: STANDARD DRAWINGS REQUIRED (CIRCLED)

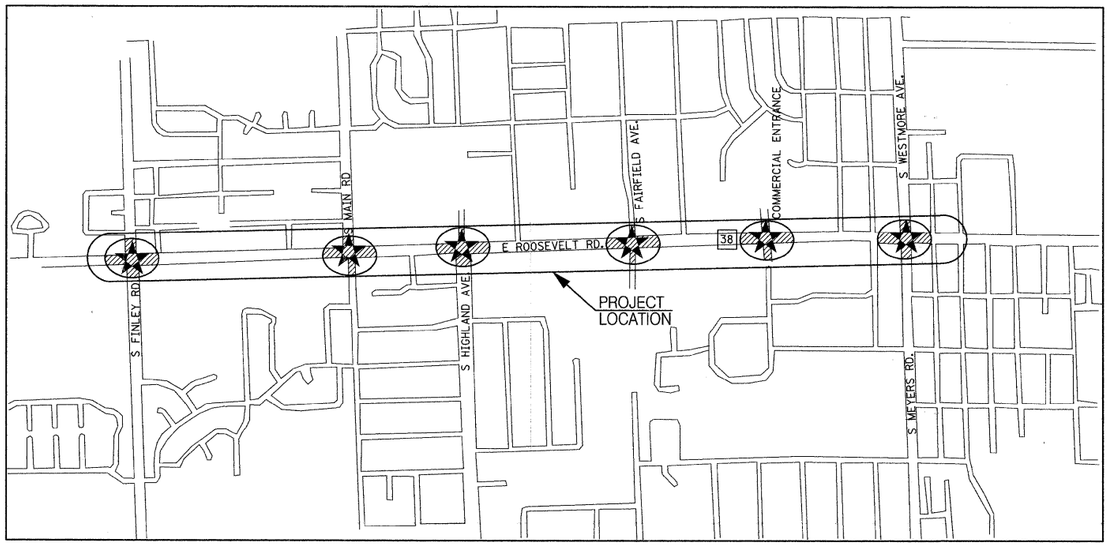
PREPARED BY: Steven Tanner Dec 12, 2008
TRAFFIC ENGINEER DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

SCALES
PLAN	1" = 20'
PROFILE HORIZ.	N/A
PROFILE VERT.	N/A
CROSS SECTIONS	N/A

DISTRICT 1
Traffic Signal Modernization Plans For
F.A.P. Route 347 – Illinois Route 38 (Roosevelt Road)
from Finley Road to Westmore Road/Meyers Road
PROJECT NO. HSIP-0347 (020)
Section: 2008–066 TS
Contract: 60F54
C–91–126–09
Dupage County



LOCATION OF SECTION INDICATED THUS: –

GROSS LENGTH= 1,898 FEET = 0.359 MILES
NET LENGTH = 1,898 FEET = 0.359 MILES

CONTRACT NO. 60F54

P. K. GANDHI
34993
REGISTERED PROFESSIONAL ENGINEER OF
ILLINOIS
P.K. Gandhi 12/10/2008
Exp. 11/30/2009.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec. 12 20 08
Diana M. O'Keefe, PE
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

January 30, 2009
Charles J. Ingersoll, PE
ENGINEER OF DESIGN AND ENVIRONMENT

January 30, 2009
Christine M. Reed, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

BUREAU OF TRAFFIC – DARYLE DREW – (847) 705-4420

90% FED./10% STATE | 90% FED. 10% STATE | 100% LOMBARD | 90% FED. 10% STATE

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

TRAFFIC SIGNAL CONSTRUCTION CODE - Y031 1F

	CODE NUMBER	DESIGNATION	UNIT	TOTAL QUANTITIES URBAN	ILL. RTE. 38 @ (ROOSEVELT RD.) FINLEY ROAD	ILL. RTE. 38 @ (ROOSEVELT RD.) MAIN STREET	ILL. RTE. 38 @ (ROOSEVELT RD.) HIGHLAND AVE	ILL. RTE.38 @ (ROOSEVELT RD.) FAIRFIELD AVE		ILL. RTE.38 @ (ROOSEVELT RD.) COMMERCIAL ENT.	ILL. RTE 38 @ (ROOSEVELT RD.) MEYERS ROAD
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	0.35	0.33	0.33	0.33		0.33	0.33
	67100100	MOBILIZATION	L SUM	1	0.20	0.16	0.16	0.16		0.16	0.16
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.20	0.16	0.16	0.16		0.16	0.16
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.20	0.16	0.16	0.16		0.16	0.16
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.20	0.16	0.16	0.16		0.16	0.16
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	1	1	1	1		1	1
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	167	-	167	-			-	-
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2252	-	* 271	* 289	652	* 516	* 274	* 250
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	399	-	-	-	73		326	-
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1840	706	664	262	-		-	208
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	20	4	4	4	4		4	-
	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	24	4	4	4	7		4	3
	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	19	4	4	2	1		4	2
	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	25	4	4	4	2		4	5
	88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	-	-	-	2		-	-
	88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	12	4	2	2	1		-	3
	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2	-	-		1		-	1
	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED W/ COUNT-DOWN TIMER	EACH	26	4	8	6	-		-	8
	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED W/ COUNT-DOWN TIMER	EACH	1	-	-	1	-		-	-
	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	49	8	8	8	9		8	8
	88800100	PEDESTRIAN PUSH-BUTTON	EACH	11	2	4	4	1		-	-
	89502200	MODIFY EXISTING CONTROLLER	EACH	1	-	-	-	1		-	-
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1	1	1	1		1	1
**	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	690	375	-	-	-		-	315
*	X0301023	CONFIRMATION BEACON	EACH	11	-	2	2	3		2	2
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	102	51	-	-	-		-	51

* 100% COST TO VILLAGE OF LOMBARD

** SPECIALTY ITEMS

Rev.

FILE NAME = W:\email\Roosevelt\02_Summary_of_Quantities.dgn	USER NAME = leysa	DESIGNED -	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED -
	PLOT DATE = 12/11/2008	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		2
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

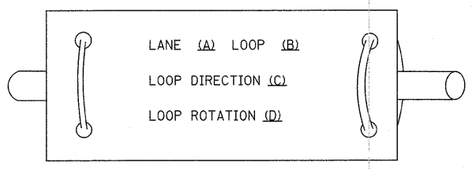
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

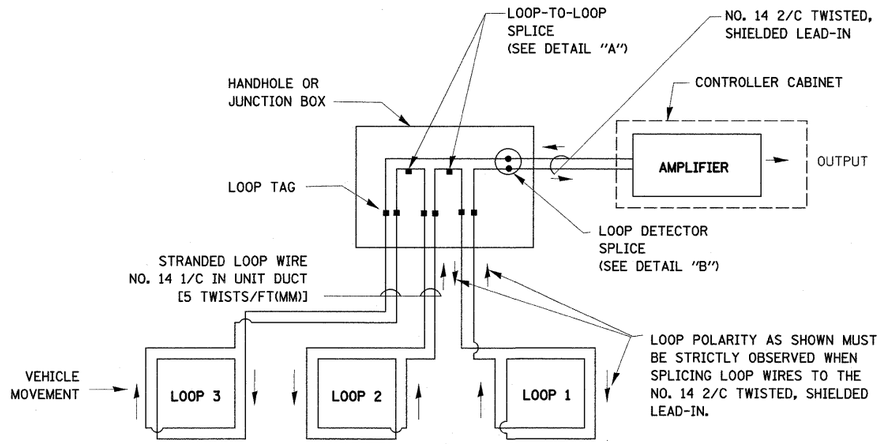


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

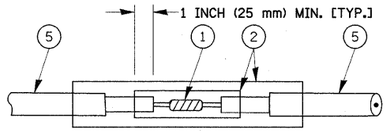
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

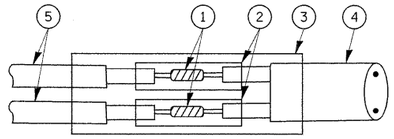


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE
HORIZ.
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

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	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/11/2000	DATE -	REVISED -

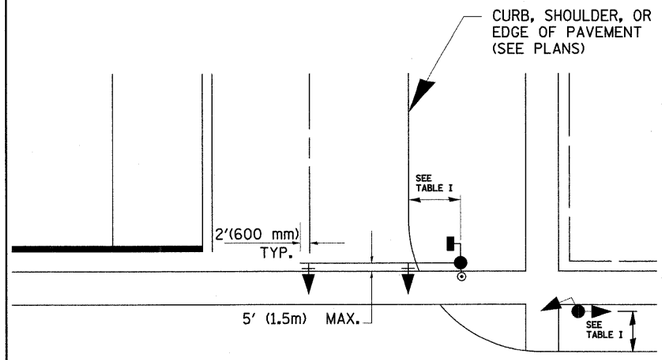
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

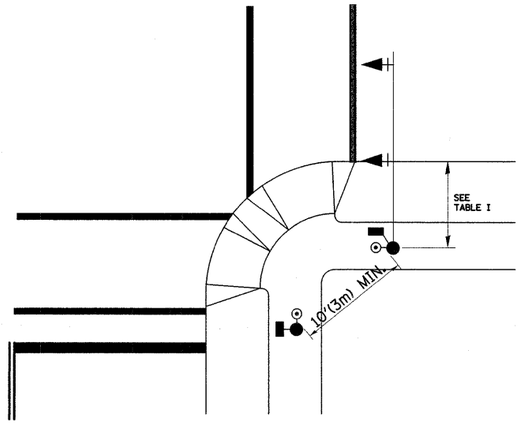
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		3
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

   AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

   PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

   A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.

   B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.

   C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

   D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).

   E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK

2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.

3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.

4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

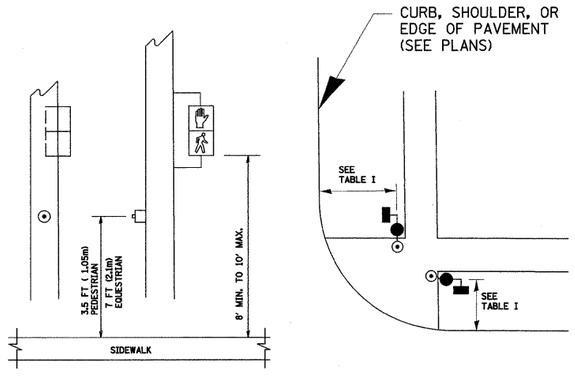


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE HORIZ.
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 2 OF 4

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		DRAWN -	REVISED -
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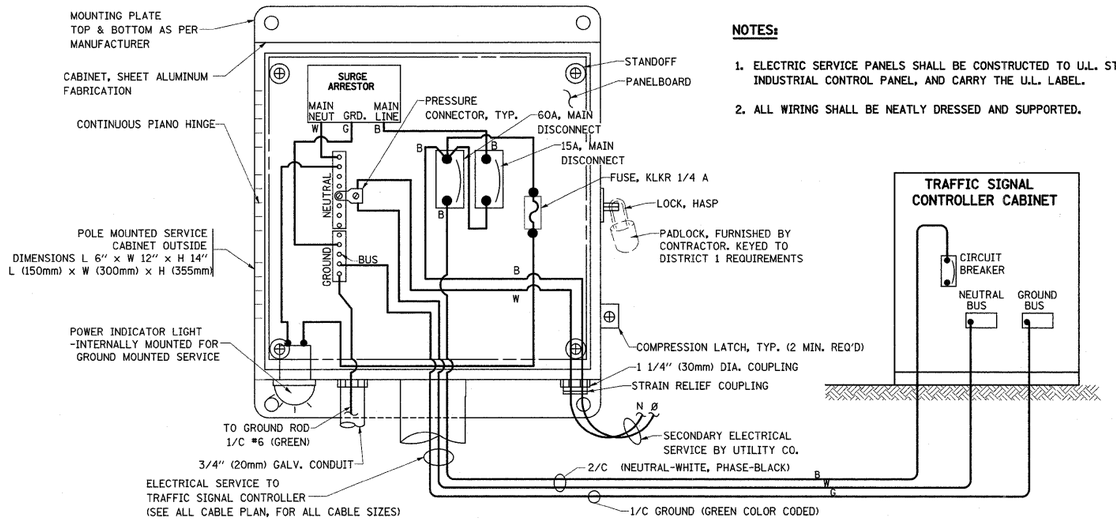
	PLOT DATE = 12/11/2000	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		4
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

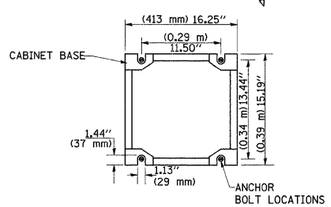


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)



CABINET – BASE BOLT PATTERN
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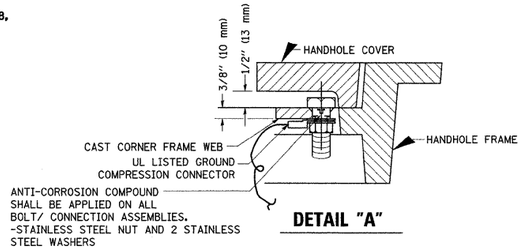

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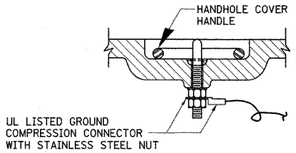

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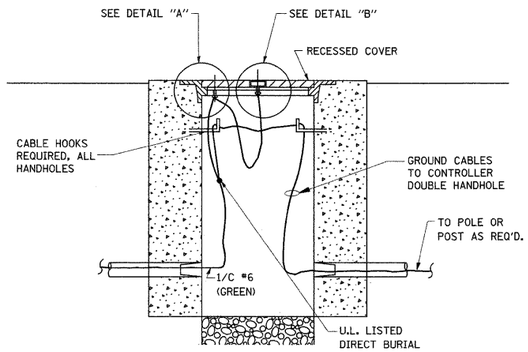

HANDHOLE COVER & FRAME – GROUNDING DETAIL
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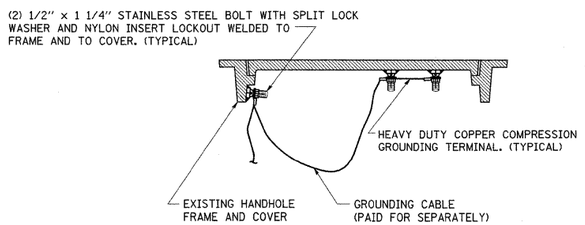
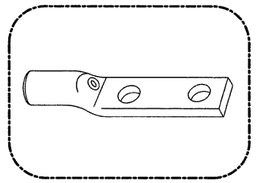


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)

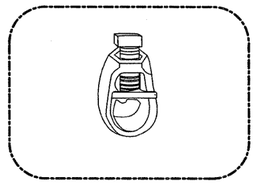
NOTES:

GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC,). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



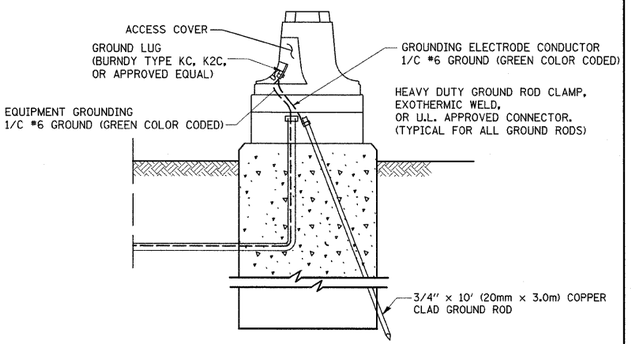
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE / POST–GROUNDING DETAIL
(NOT TO SCALE)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE HORIZ.
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 3 OF 4

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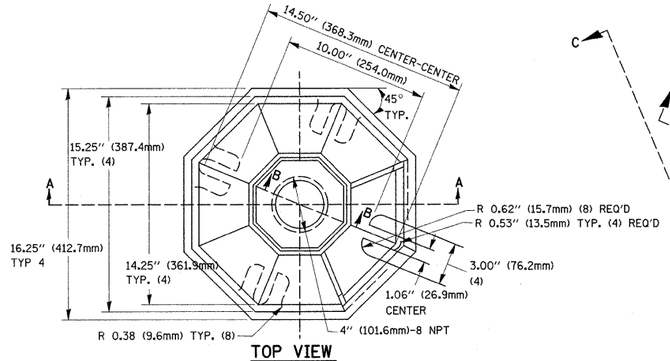
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

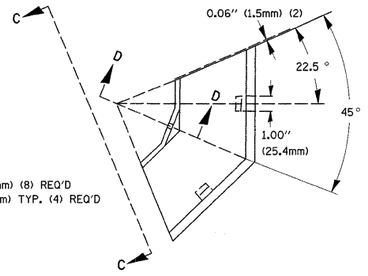
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		5

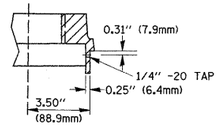
CONTRACT NO. 60F54

FED. ROAD DIST. NO. | ILLINOIS | FAP 347/ILL 38 (ROOSEVELT RD.)

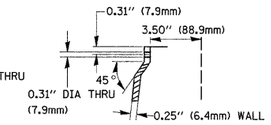


TOP VIEW

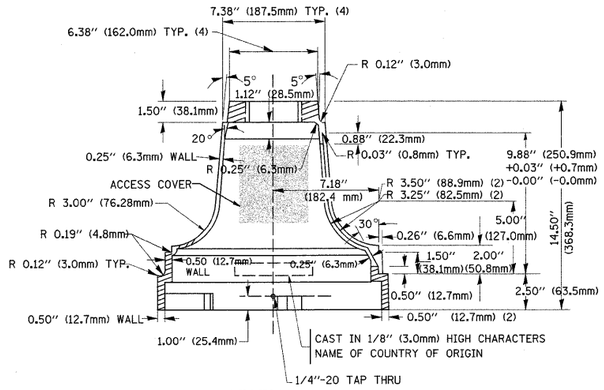




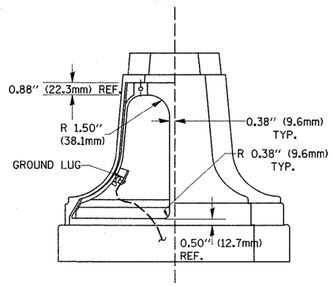
SECTION B-B



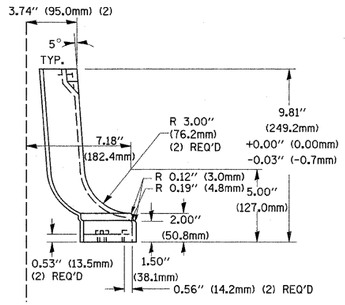
SECTION D-D



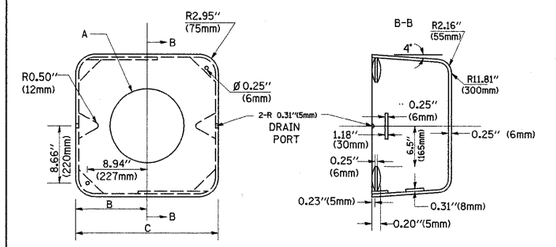
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

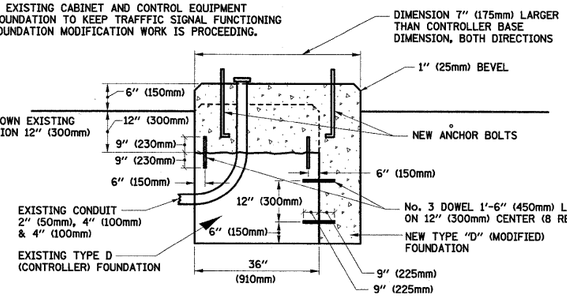


MATERIAL:
- ASTM A48 CLASS 30 GREY IRON
- ASTM A123 HOT DIPPED GALVANIZED

TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125"(257mm)	9.5"(241mm)	19"(483mm)	12" (300mm)	24kg
II	Ø 11.125"(283mm)	10.75"(273mm)	21.5"(546mm)	12" (300mm)	26kg

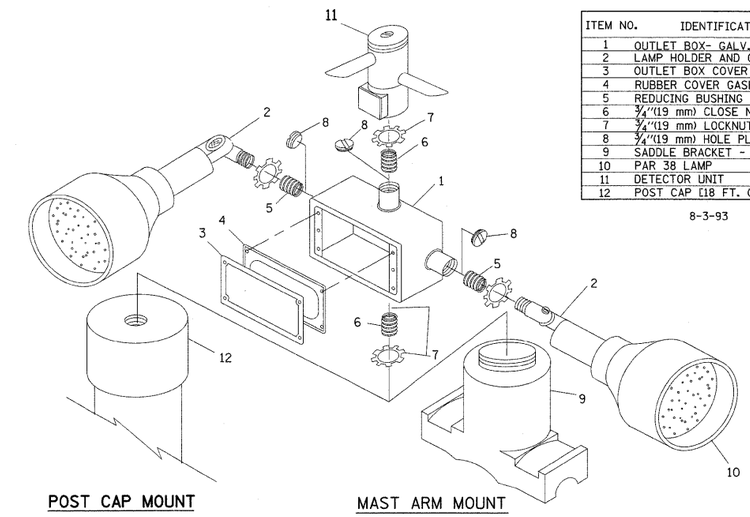
SHROUD DETAIL

NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



POST CAP MOUNT

MAST ARM MOUNT

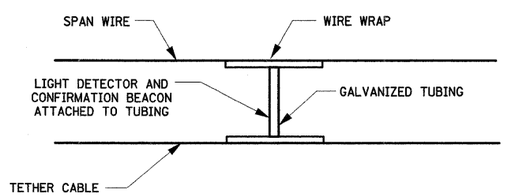
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

8-3-93

NOTES:

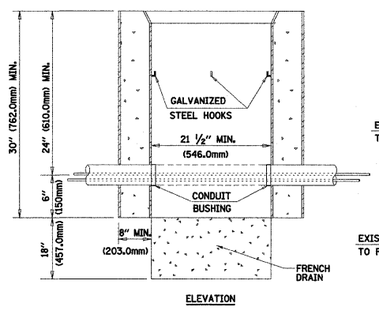
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)

NOTES:
1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



DETAIL
HANDHOLE TO INTERCEPT EXISTING CONDUIT
N.T.S.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE
HORIZ.
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 4 OF 4

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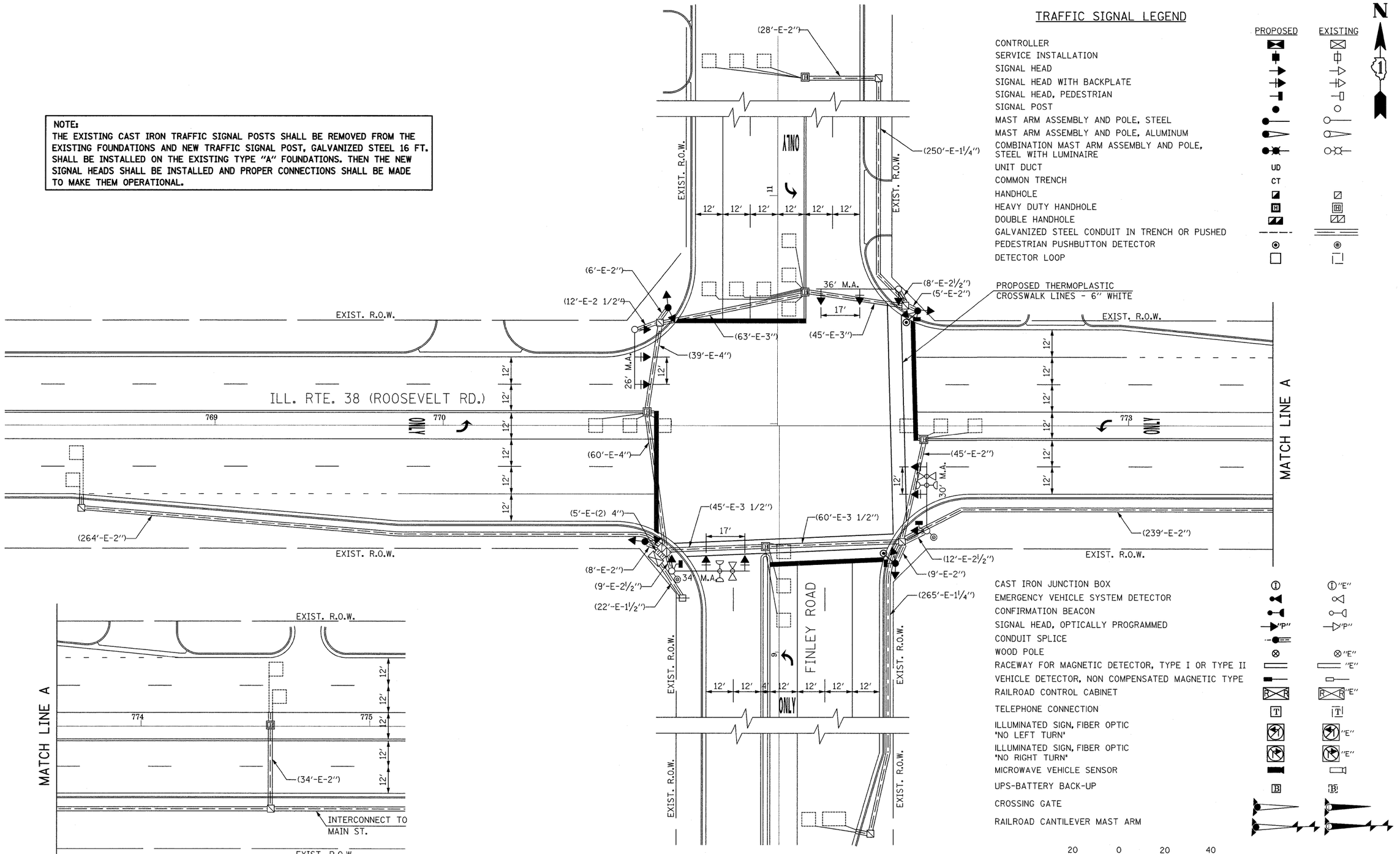
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		6
	CONTRACT NO. 60F54			
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

NOTE:
THE EXISTING CAST IRON TRAFFIC SIGNAL POSTS SHALL BE REMOVED FROM THE EXISTING FOUNDATIONS AND NEW TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. SHALL BE INSTALLED ON THE EXISTING TYPE "A" FOUNDATIONS. THEN THE NEW SIGNAL HEADS SHALL BE INSTALLED AND PROPER CONNECTIONS SHALL BE MADE TO MAKE THEM OPERATIONAL.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		"E"
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD, OPTICALLY PROGRAMMED	"P"	"P"
CONDUIT SPLICE		
WOOD POLE		"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		"E"
TELEPHONE CONNECTION	T	T
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		"E"
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		"E"
MICROWAVE VEHICLE SENSOR		
UPS-BATTERY BACK-UP	B	B
CROSSING GATE		
RAILROAD CANTILEVER MAST ARM		

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SCALE IN FEET

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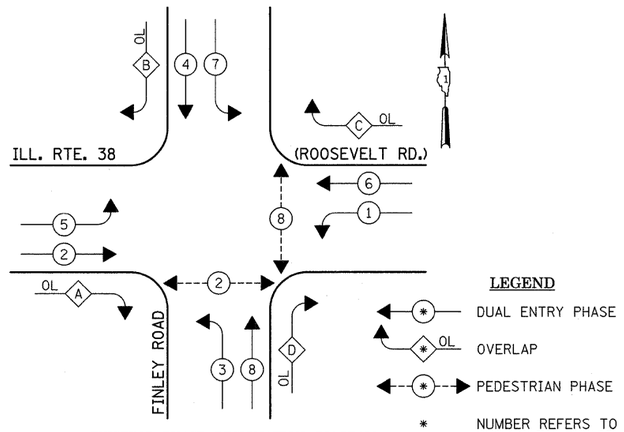
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION
ROOSEVELT RD @ FINLEY RD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		7
	CONTRACT NO. 60F54			
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

CONTROLLER SEQUENCE

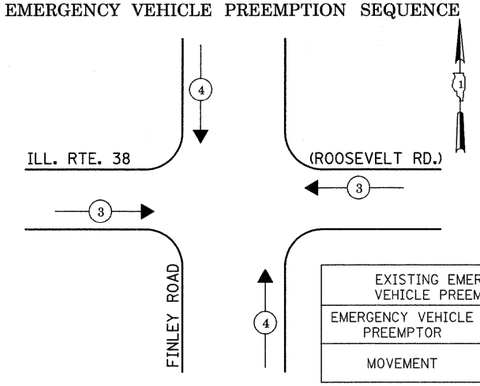


EXISTING PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7
D	=	8	+	1

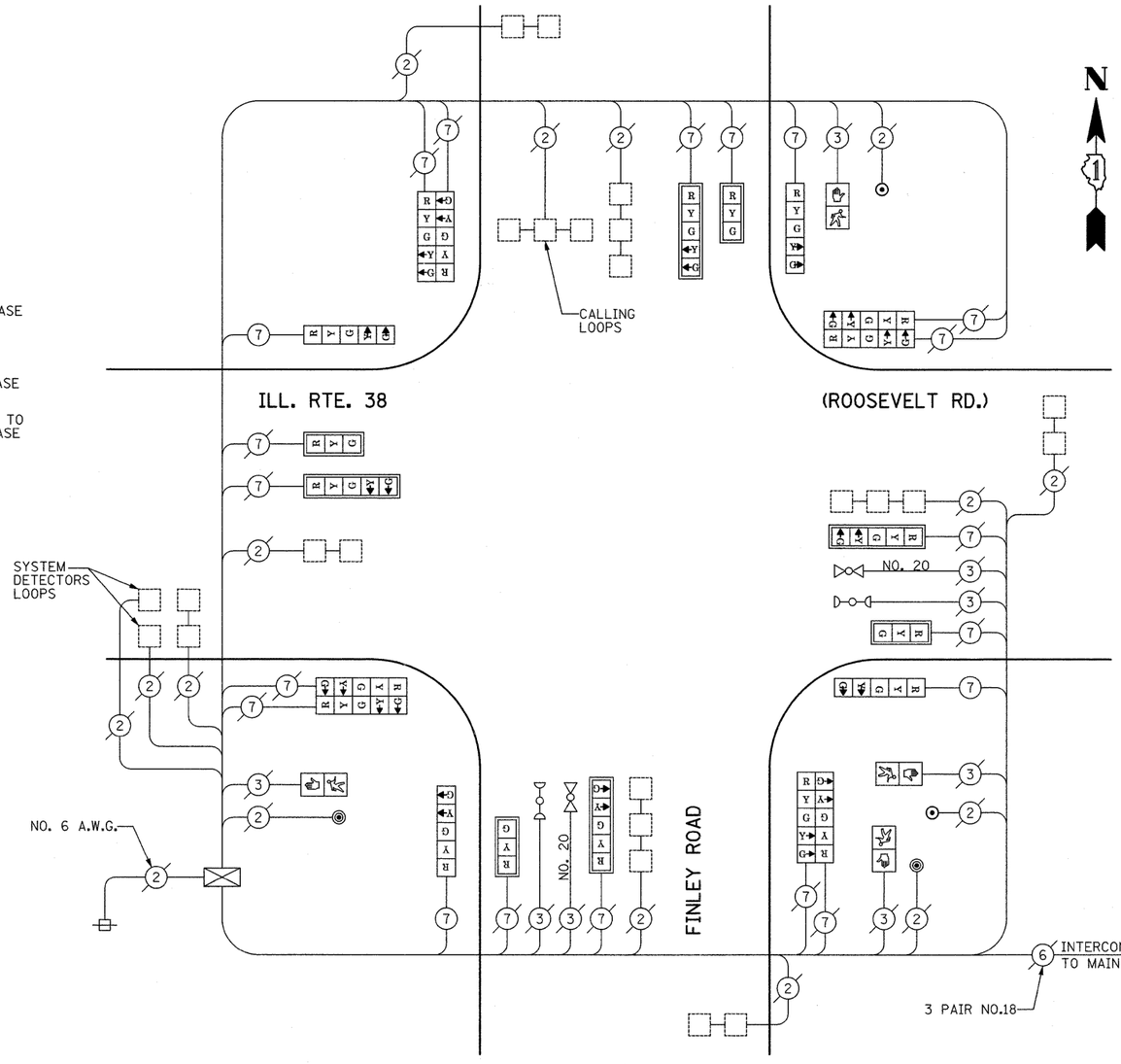
EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
0.20	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701601
0.20	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701701
0.20	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701801
706	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
375	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6"



CABLE DIAGRAM

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.

4	EACH	TAFFIC SIGNAL POST, 16 FT.
8	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
2	EACH	PEDESTRIAN PUSH-BUTTON

CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5125 2-MM12F & SM12F
R Y G Y G	R Y G Y G	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		LOCAL AND MASTER CONTROLLER
		MICROWAVE VEHICLE SENSOR
B	B	UPS-BATTERY BACK-UP

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIGRAM, PHASE DESIGNATION DIAGRAM
SCHEDUAL OF QUANTITIES,
FINLEY ROAD AT ROOSEVELT ROAD (IL.RTE.38)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		&

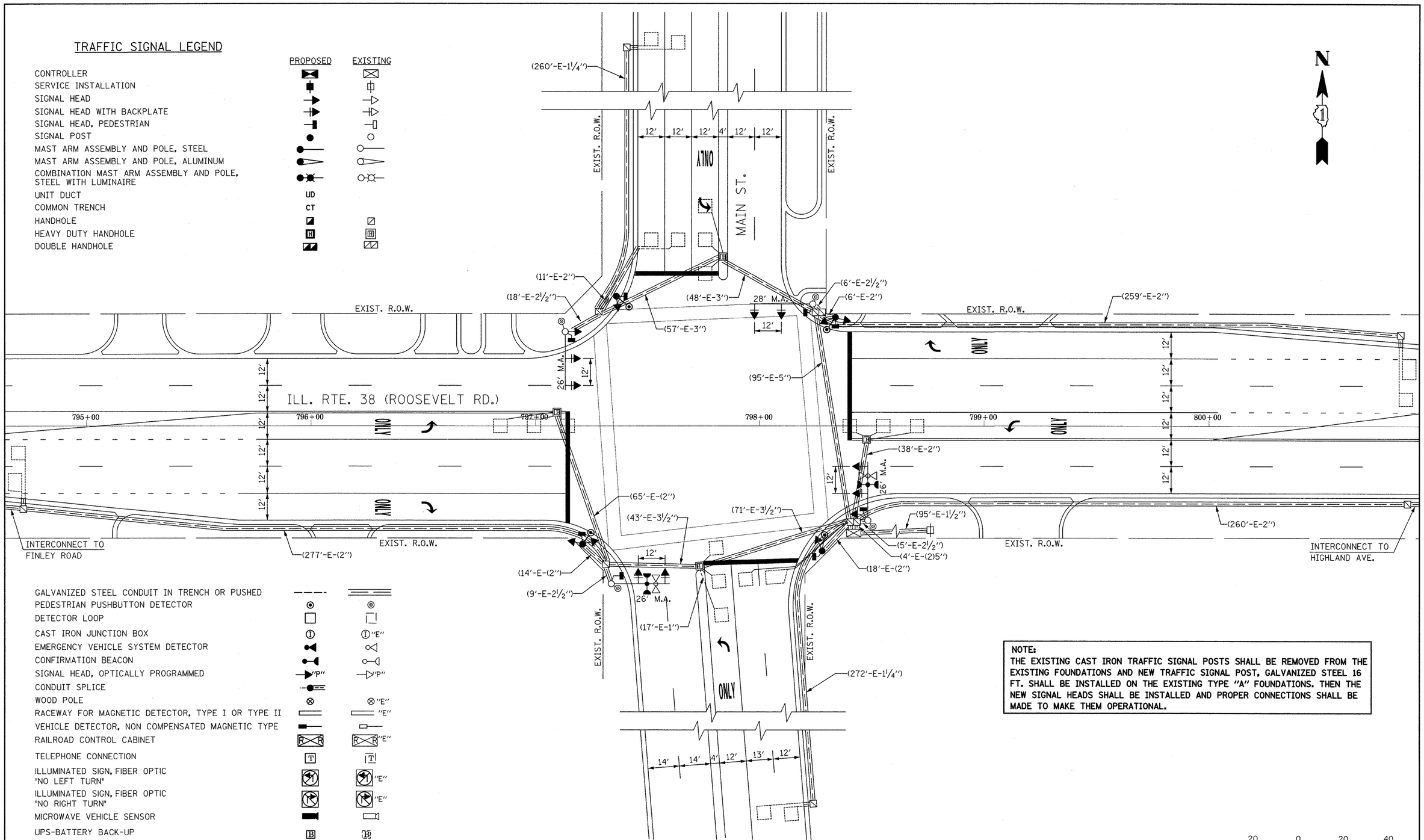
CONTRACT NO. 60F54

FED. ROAD DIST. NO. | ILLINOIS | FAP 347/ILL 38 (ROOSEVELT RD.)

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	⊠	⊠
SERVICE INSTALLATION	■	□
SIGNAL HEAD	→	→
SIGNAL HEAD WITH BACKPLATE	→	→
SIGNAL HEAD, PEDESTRIAN	⊣	⊣
SIGNAL POST	●	○
MAST ARM ASSEMBLY AND POLE, STEEL	●—	○—
MAST ARM ASSEMBLY AND POLE, ALUMINUM	●—	○—
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	●—☼	○—☼
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE	◪	◪
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE	◪◪	◪◪

GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED	———
PEDESTRIAN PUSHBUTTON DETECTOR	⊙
DETECTOR LOOP	□
CAST IRON JUNCTION BOX	Ⓘ / Ⓘ"E"
EMERGENCY VEHICLE SYSTEM DETECTOR	◀
CONFIRMATION BEACON	●◀
SIGNAL HEAD, OPTICALLY PROGRAMMED	→"P"
CONDUIT SPLICE	-●=
WOOD POLE	⊗ / ⊗"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	▭ / "E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	▬
RAILROAD CONTROL CABINET	R / R"E"
TELEPHONE CONNECTION	T
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	◀ / "E"
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	▶ / "E"
MICROWAVE VEHICLE SENSOR	▬
UPS-BATTERY BACK-UP	B
CROSSING GATE	
RAILROAD CANTILEVER MAST ARM	



NOTE:
THE EXISTING CAST IRON TRAFFIC SIGNAL POSTS SHALL BE REMOVED FROM THE EXISTING FOUNDATIONS AND NEW TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. SHALL BE INSTALLED ON THE EXISTING TYPE "A" FOUNDATIONS. THEN THE NEW SIGNAL HEADS SHALL BE INSTALLED AND PROPER CONNECTIONS SHALL BE MADE TO MAKE THEM OPERATIONAL.

20 0 20 40
SCALE IN FEET

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	PLOT DATE = 12/11/2008	DATE -	REVISED -

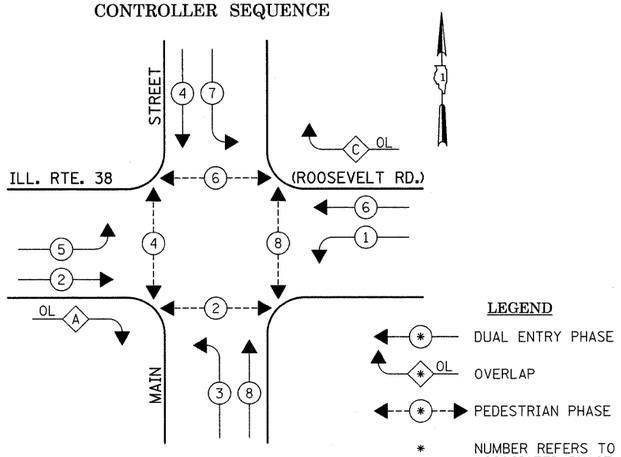
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION
ROOSEVELT RD @ MAIN ST

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		9
	CONTRACT NO. 60F54			
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

CONTROLLER SEQUENCE

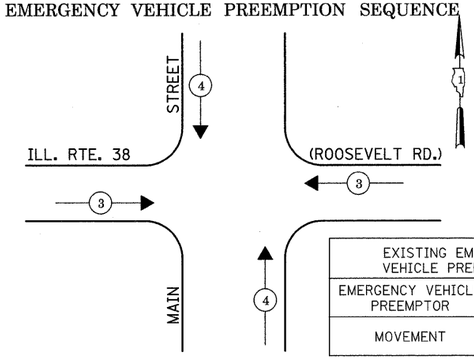


EXISTING PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

EMERGENCY VEHICLE PREEMPTION SEQUENCE



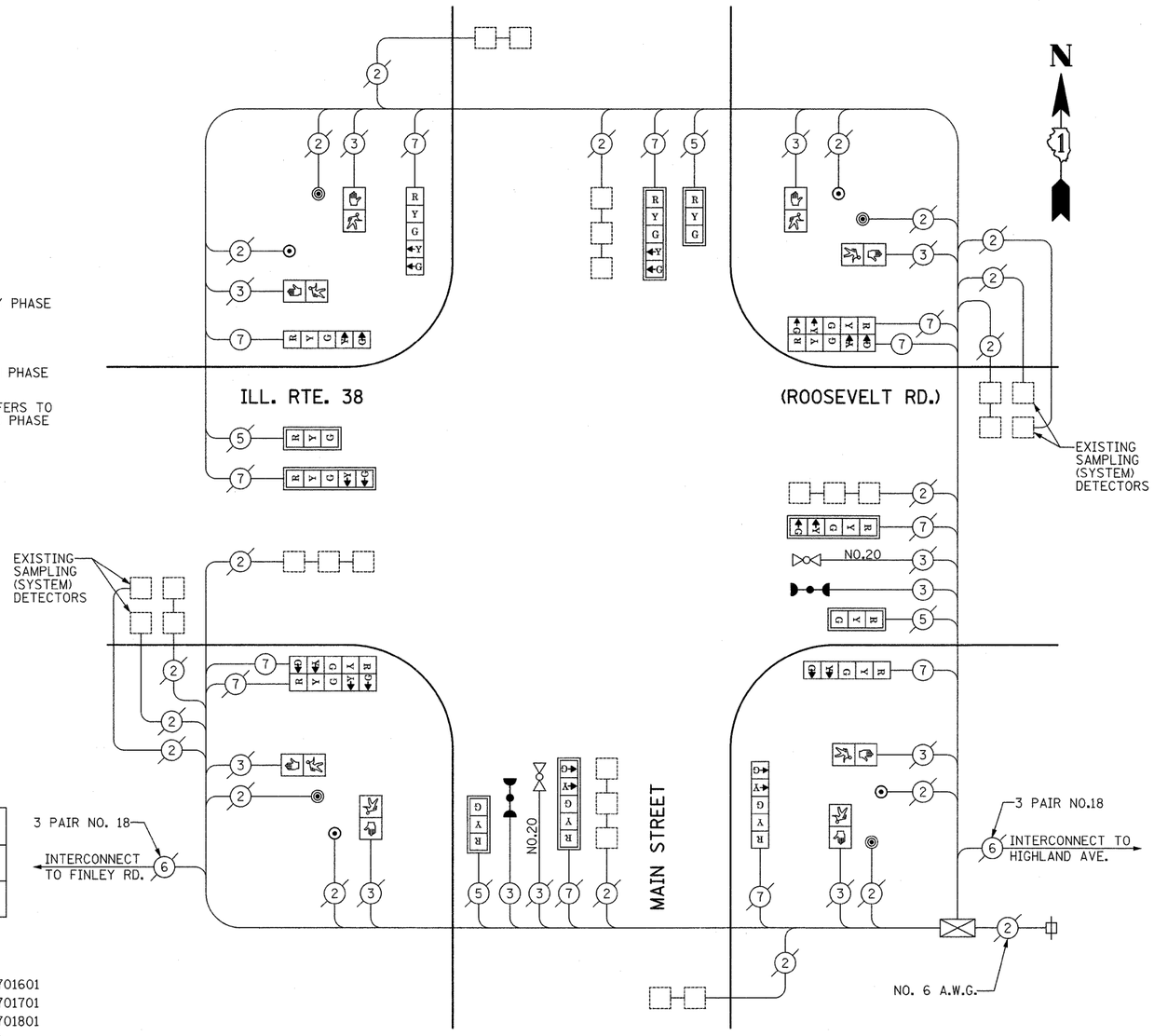
EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701601
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701701
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701801
167	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
*271	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
664	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN PUSH-BUTTON
*2	EACH	CONFIRMATION BEACON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

*100% COST TO VILLAGE OF LOMBARD

CABLE DIAGRAM



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.

4	EACH	TRAFFIC SIGNAL POST, 16 FT.
4	EACH	SIGNAL HEAD 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
6	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED
4	EACH	PEDESTRIAN PUSH-BUTTON

CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5125 2-MM12F & SM12F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
R R	R R	RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
	M C	LOCAL AND MASTER CONTROLLER
		MICROWAVE VEHICLE SENSOR
B	B	UPS-BATTERY BACK-UP

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	PLOT DATE = 12/11/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

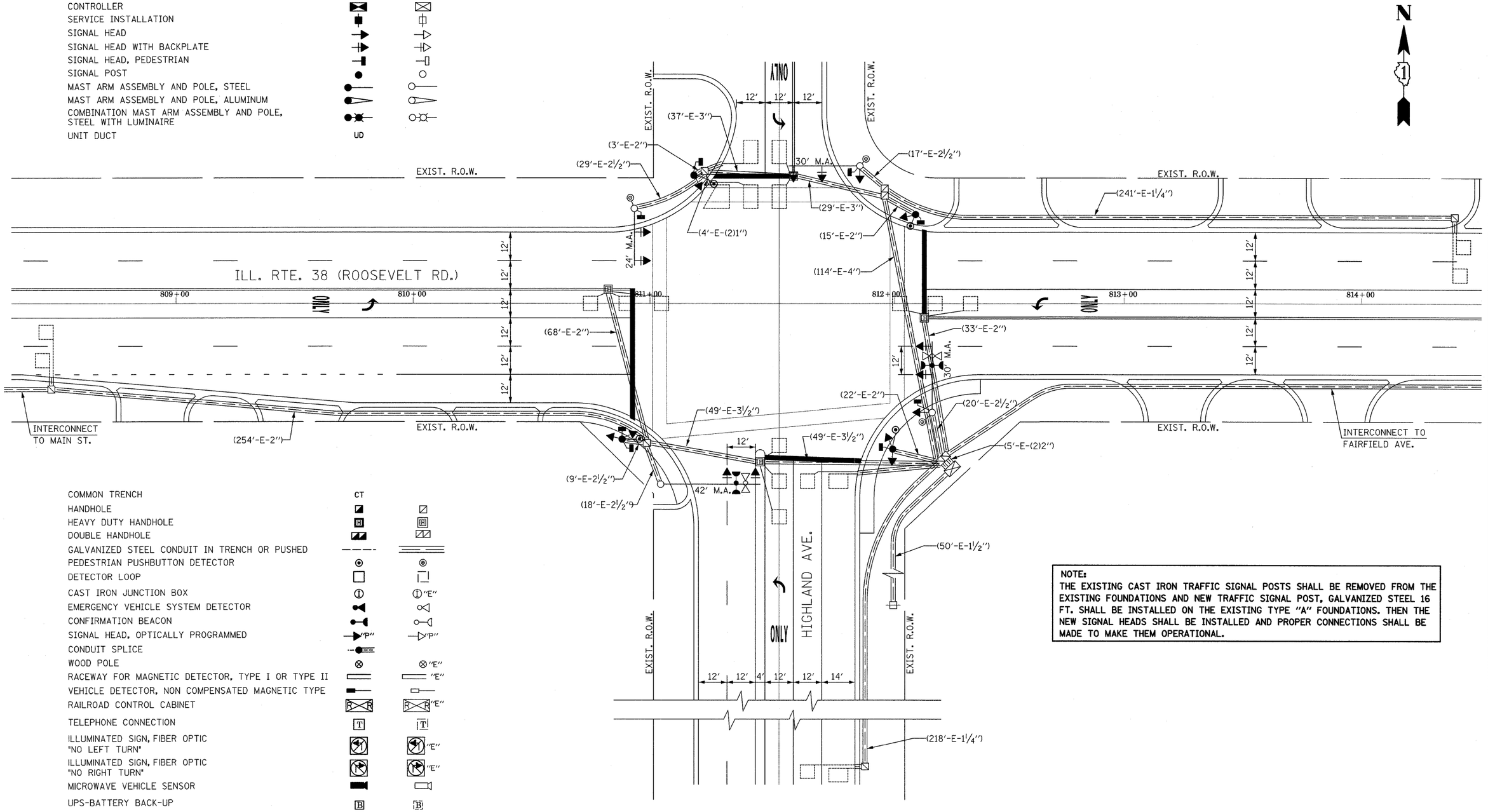
CABLE DIGRAM, PHASE DESIGNATION DIAGRAM
SCHEDUAL OF QUANTITIES,
MAIN STREET AT ROOSEVELT ROAD (IL.RTE.38)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		10
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		"E"
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD, OPTICALLY PROGRAMMED	"P"	"P"
CONDUIT SPLICE		
WOOD POLE		"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		"E"
TELEPHONE CONNECTION	T	T
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		"E"
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		"E"
MICROWAVE VEHICLE SENSOR		
UPS-BATTERY BACK-UP	B	B
CROSSING GATE		
RAILROAD CANTILEVER MAST ARM		



NOTE:
THE EXISTING CAST IRON TRAFFIC SIGNAL POSTS SHALL BE REMOVED FROM THE EXISTING FOUNDATIONS AND NEW TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. SHALL BE INSTALLED ON THE EXISTING TYPE "A" FOUNDATIONS. THEN THE NEW SIGNAL HEADS SHALL BE INSTALLED AND PROPER CONNECTIONS SHALL BE MADE TO MAKE THEM OPERATIONAL.

20 0 20 40
SCALE IN FEET

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	PLOT DATE = 12/11/2008	DATE -	REVISED -

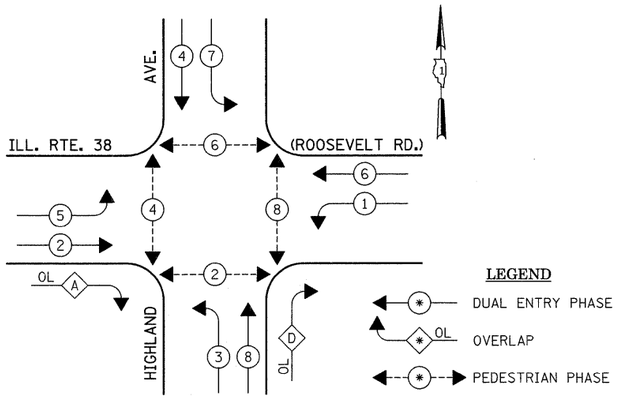
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION
ROOSEVELT RD @ HIGHLAND AVE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		11
	CONTRACT NO. 60F54			
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

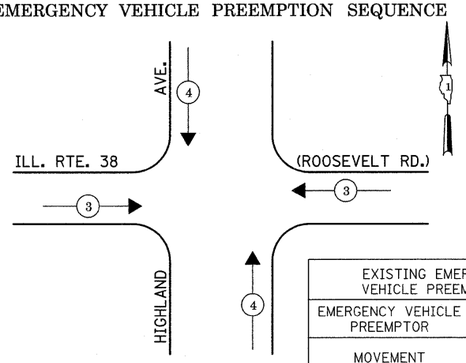
LEGEND

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

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



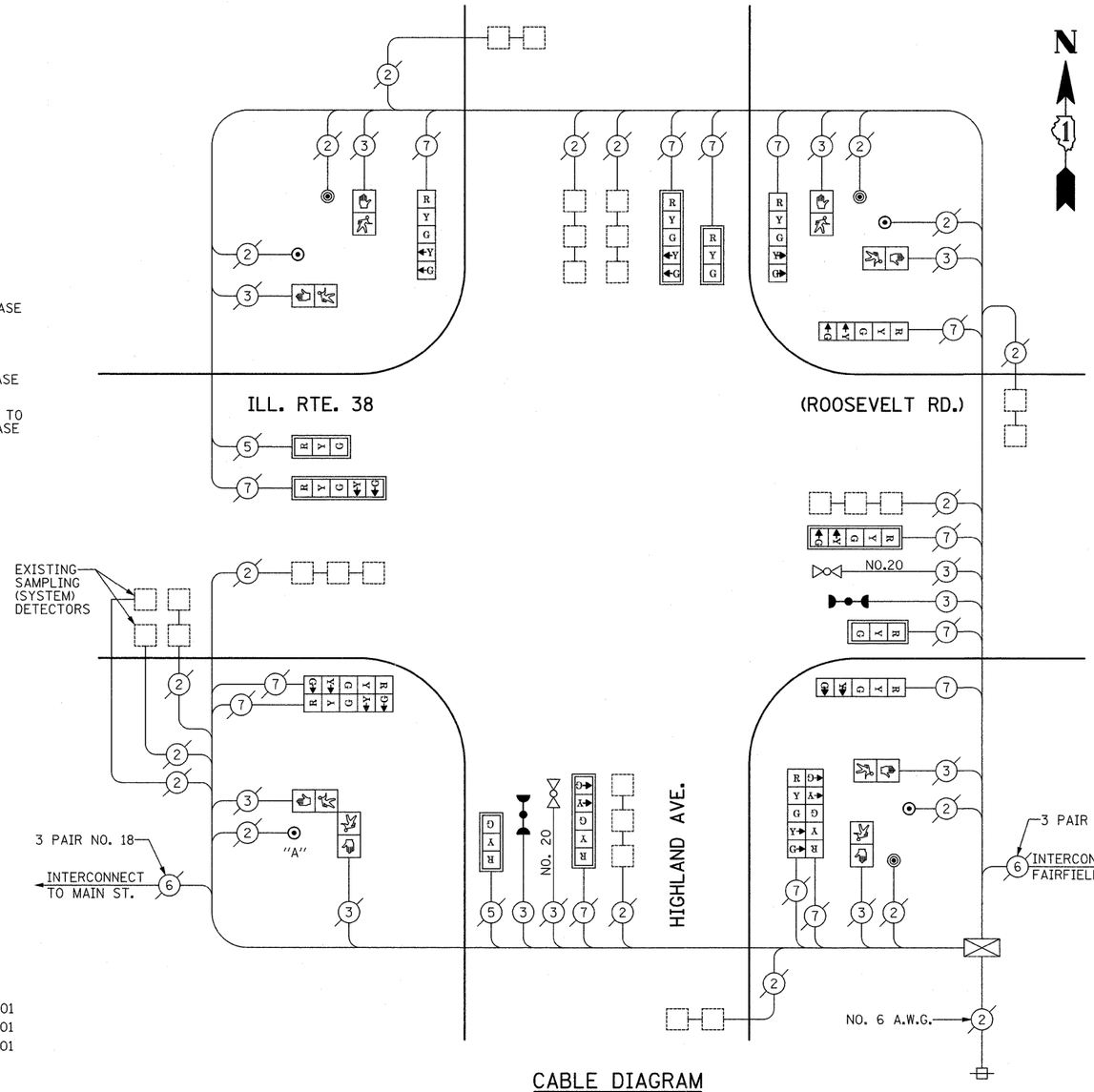
EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇄	⇅

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701601
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701701
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701801
*289	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
262	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN PUSH-BUTTON
*2	EACH	CONFIRMATION BEACON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

*100% COST TO VILLAGE OF LOMBARD

CABLE DIAGRAM



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.

4	EACH	TRAFFIC SIGNAL POST, 16 FT.
2	EACH	SIGNAL HEAD 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
6	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED
6	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
5	EACH	PEDESTRIAN PUSH-BUTTON

PUSH-BUTTON NOTE:

PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5125 2-MM12F & SM12F
R Y G Y G	R Y G Y G	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
"P"	"P"	
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
	M C	LOCAL AND MASTER CONTROLLER
		MICROWAVE VEHICLE SENSOR
B	B	UPS-BATTERY BACK-UP

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	PLOT DATE = 12/11/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

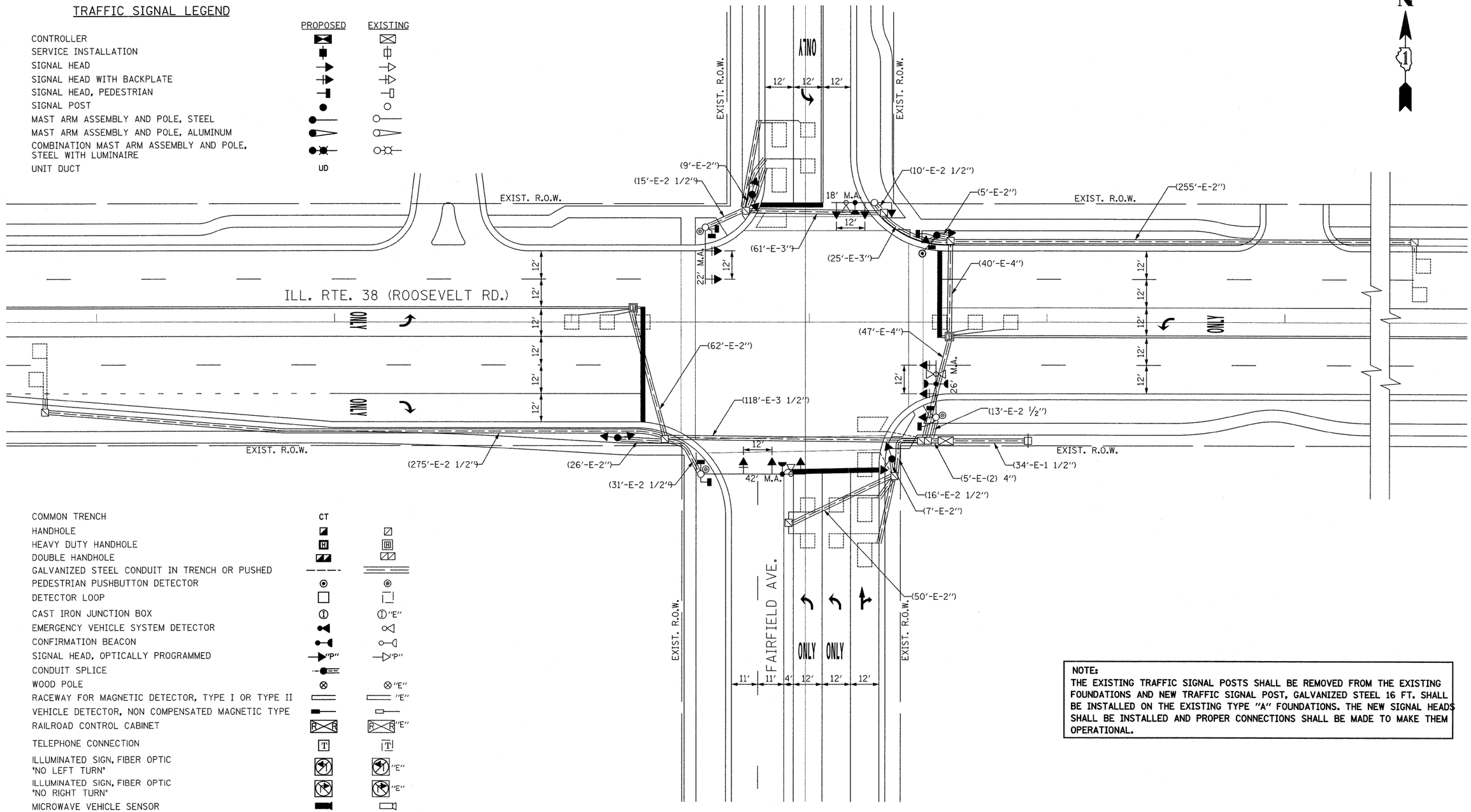
CABLE DIGRAM, PHASE DESIGNATION DIAGRAM
SCHEDUAL OF QUANTITIES,
HIGHLAND AVE AT ROOSEVELT ROAD (IL.RTE.38)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		12
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		"E"
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD, OPTICALLY PROGRAMMED	"P"	"P"
CONDUIT SPLICE		
WOOD POLE		"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET	R R	R R "E"
TELEPHONE CONNECTION	T	T
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		"E"
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		"E"
MICROWAVE VEHICLE SENSOR		
UPS-BATTERY BACK-UP	B	B
CROSSING GATE		
RAILROAD CANTILEVER MAST ARM		



NOTE:
THE EXISTING TRAFFIC SIGNAL POSTS SHALL BE REMOVED FROM THE EXISTING FOUNDATIONS AND NEW TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. SHALL BE INSTALLED ON THE EXISTING TYPE "A" FOUNDATIONS. THE NEW SIGNAL HEADS SHALL BE INSTALLED AND PROPER CONNECTIONS SHALL BE MADE TO MAKE THEM OPERATIONAL.

20 0 20 40
SCALE IN FEET

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		DRAWN -	REVISED -
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	PLOT DATE = 12/11/2008	DATE -	REVISED -

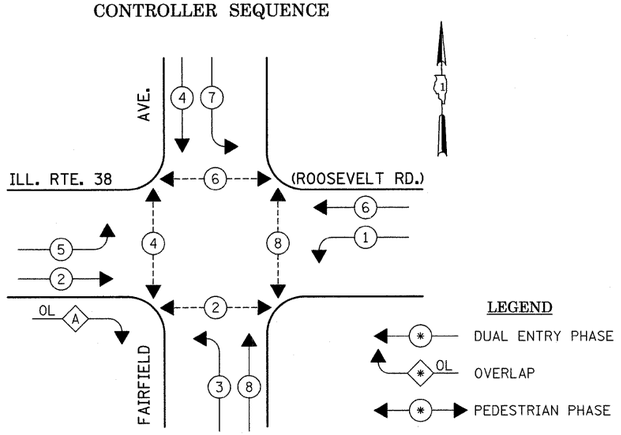
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION
ROOSEVELT RD @ FAIRFIELD AVE.

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		13
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

CONTROLLER SEQUENCE



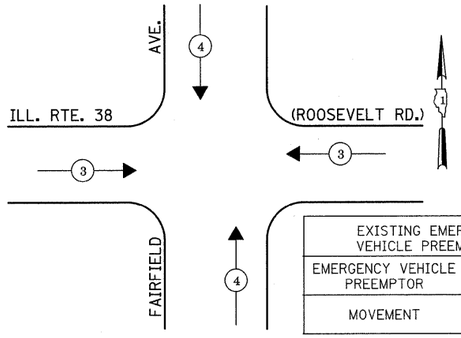
EXISTING PHASE DESIGNATION DIAGRAM

* NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3

EMERGENCY VEHICLE PREEMPTION SEQUENCE



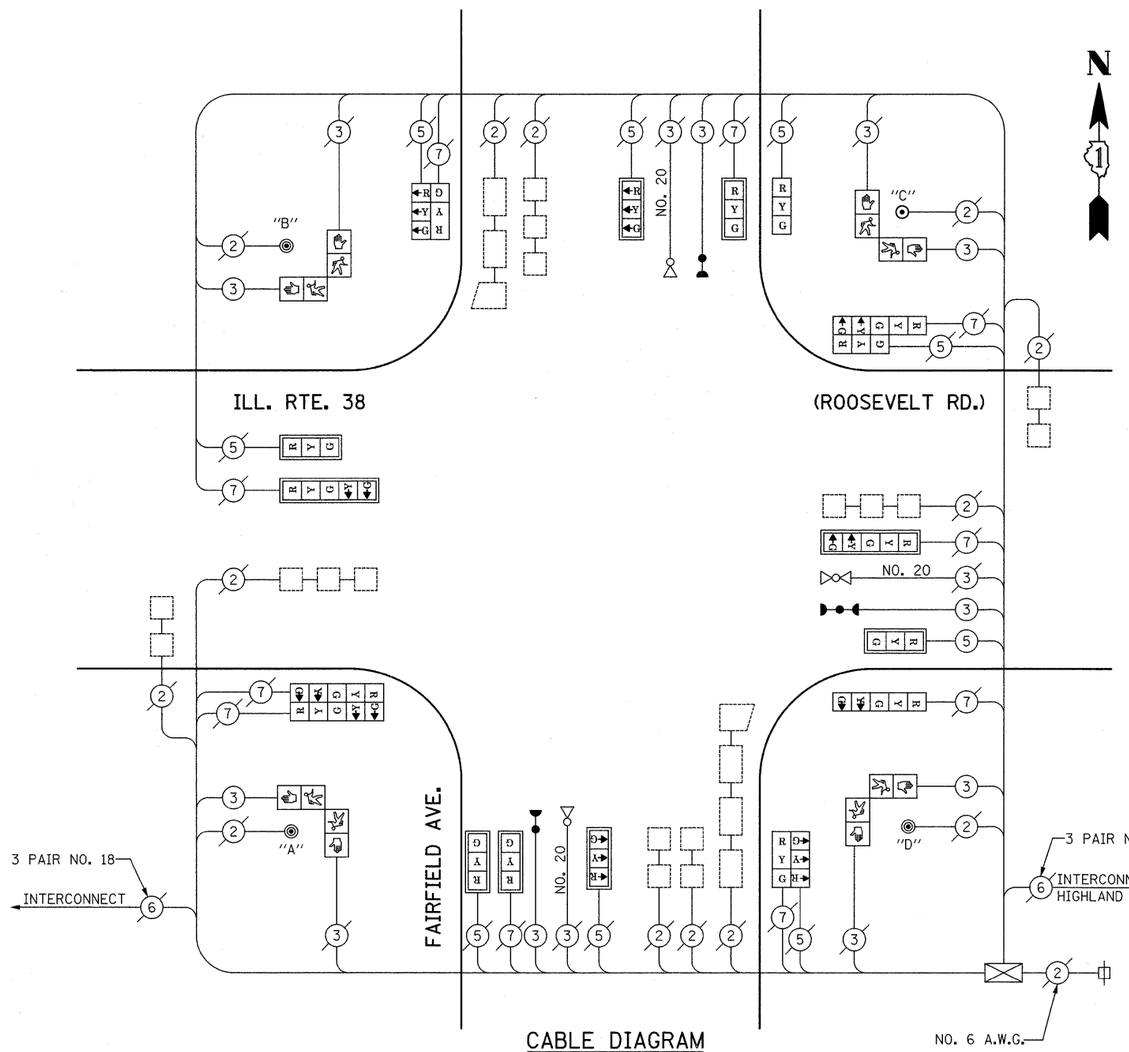
EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701601
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701701
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701801
**1168	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 3C
73	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 5C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.
1	EACH	MANTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5- SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED
9	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	PEDESTRIAN PUSH-BUTTON
* 3	EACH	CONFIRMATION BEACON
1	EACH	MODIFY EXISTING CONTROLLER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

* 100% COST TO VILLAGE OF LOMBARD

** 516 FEET OF THE COST TO VILLAGE OF LOMBARD



CABLE DIAGRAM

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.

4	EACH	TRAFFIC SIGNAL POST, 16 FT.
1	EACH	SIGNAL HEAD 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	PEDESTRIAN PUSH-BUTTON

CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5125 2-MM12F & SM12F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		LOCAL AND MASTER CONTROLLER
		MICROWAVE VEHICLE SENSOR
B	B	UPS-BATTERY BACK-UP

PUSH-BUTTON NOTES

PUSH-BUTTON "A" SHALL REPLACE A CALL IN PHASES 2 AND 4

PUSH-BUTTON "B" SHALL REPLACE A CALL IN PHASES 4 AND 6

PUSH-BUTTON "C" SHALL REPLACE A CALL IN PHASES 6 AND 8

PUSH-BUTTON "D" SHALL REPLACE A CALL IN PHASES 2 AND 8

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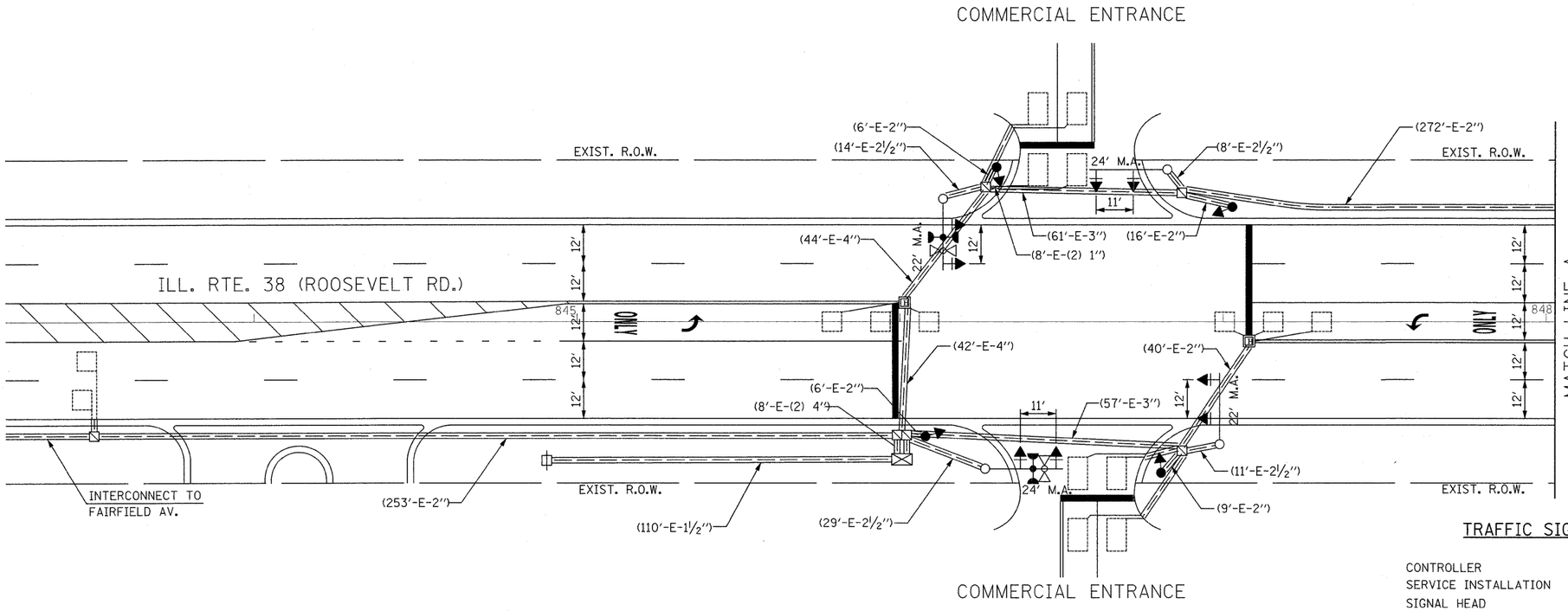
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/11/2008	DATE -	REVISED -

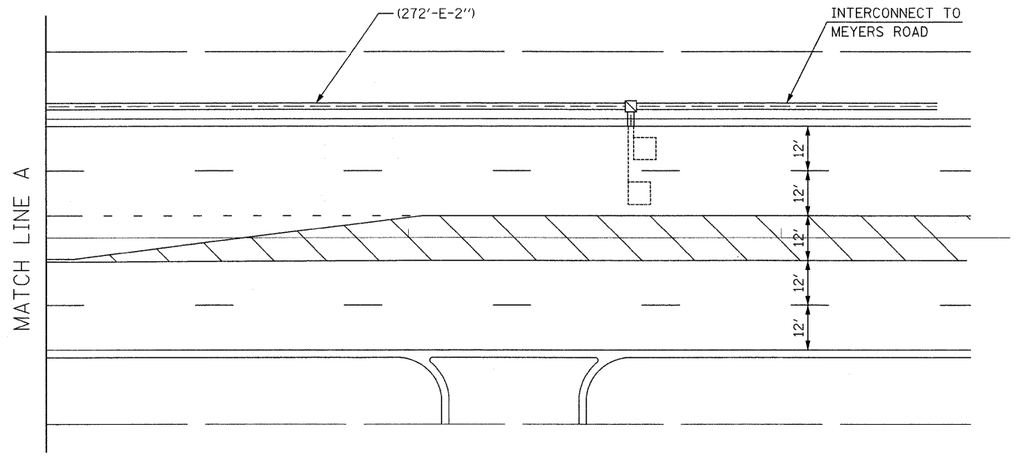
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIGRAM, PHASE DESIGNATION DIAGRAM
SCHEDUAL OF QUANTITIES,
FAIRFIELD AVE AT ROOSEVELT ROAD (IL.RTE.38)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		14
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		





NOTE:
THE EXISTING TRAFFIC SIGNAL POSTS SHALL BE REMOVED FROM THE EXISTING FOUNDATIONS AND NEW TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. SHALL BE INSTALLED ON THE EXISTING TYPE "A" FOUNDATIONS. THE NEW SIGNAL HEADS SHALL BE INSTALLED AND PROPER CONNECTIONS SHALL BE MADE TO MAKE THEM OPERATIONAL.

20 0 20 40
SCALE IN FEET

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	☒	☒
SERVICE INSTALLATION	■	⊣
SIGNAL HEAD	→	→
SIGNAL HEAD WITH BACKPLATE	⇉	⇉
SIGNAL HEAD, PEDESTRIAN	▮→	⊣→
SIGNAL POST	●	○
MAST ARM ASSEMBLY AND POLE, STEEL	●—	○—
MAST ARM ASSEMBLY AND POLE, ALUMINUM	●▶	○▶
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	●✱	○✱
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE	◪	◪
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE	◪◪	◪◪
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED	————	═══
PEDESTRIAN PUSHBUTTON DETECTOR	⊙	◉
DETECTOR LOOP	□	⌐¬
CAST IRON JUNCTION BOX	Ⓘ	Ⓘ"E"
EMERGENCY VEHICLE SYSTEM DETECTOR	●◀	○◁
CONFIRMATION BEACON	●■	○□
SIGNAL HEAD, OPTICALLY PROGRAMMED	→"P"	→"P"
CONDUIT SPLICE	·-●-·	
WOOD POLE	⊗	⊗"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	═══	═══"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	▬—	▭—
RAILROAD CONTROL CABINET	RR	RR"E"
TELEPHONE CONNECTION	T	T
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		"E"
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		"E"
MICROWAVE VEHICLE SENSOR	▬	▭
UPS-BATTERY BACK-UP	B	B
CROSSING GATE		
RAILROAD CANTILEVER MAST ARM		

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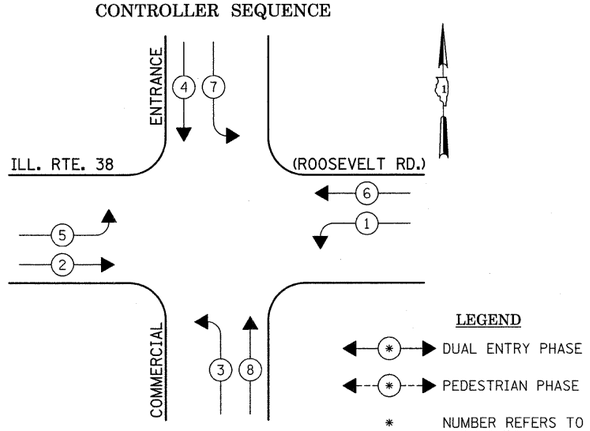
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION
ROOSEVELT RD @ COMMERCIAL ENTRANCE

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

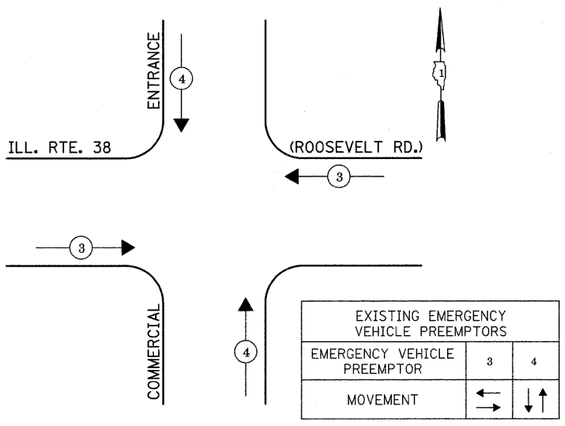
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		15
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

CONTROLLER SEQUENCE



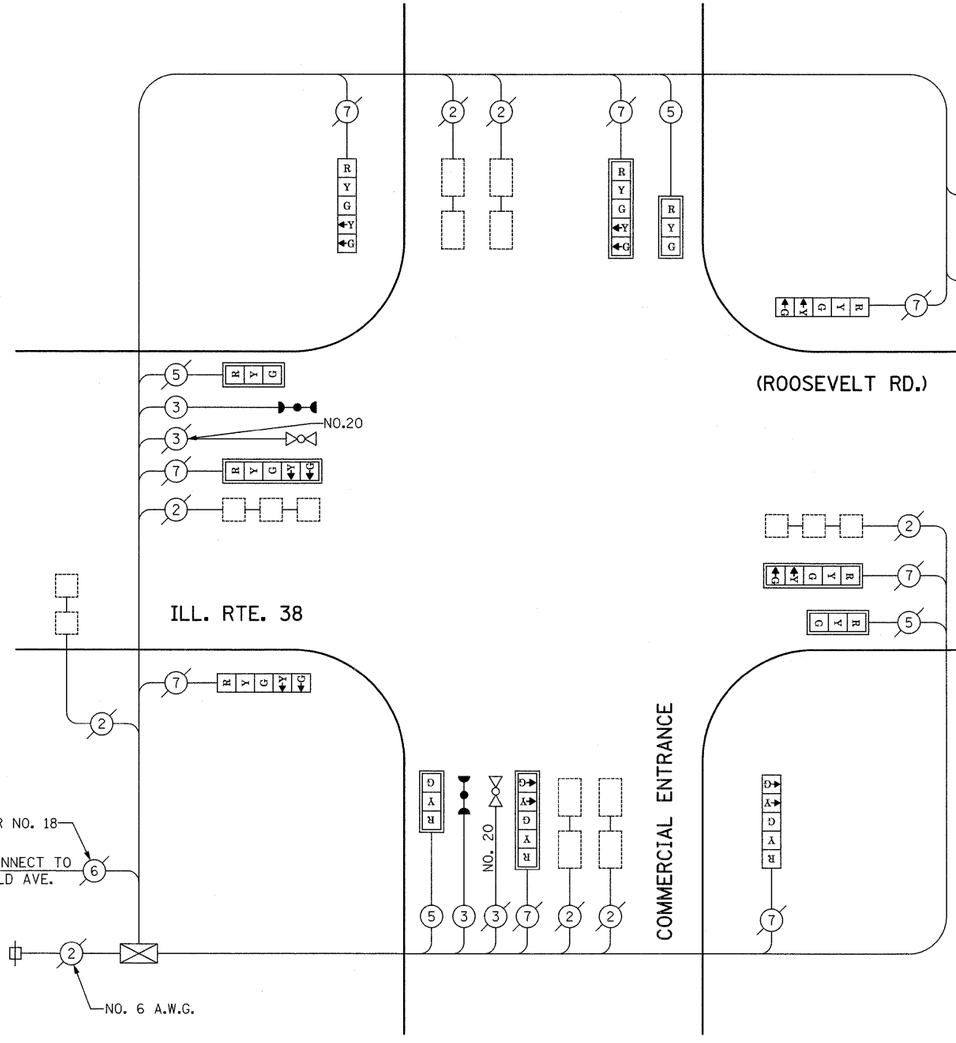
EXISTING PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇄	⇅

CABLE DIAGRAM



CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
(2)	(2)	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(1)	(1)	GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5125 2-MM12F & SM12F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		LOCAL AND MASTER CONTROLLER
		MICROWAVE VEHICLE SENSOR
B	B	UPS-BATTERY BACK-UP

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701601
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701701
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701801
*274	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
326	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE
*2	EACH	CONFIRMATION BEACON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

*100% COST TO VILLAGE OF LOMBARD

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.

4	EACH	TRAFFIC SIGNAL POST, 16 FT.
2	EACH	SIGNAL HEAD 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED

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	PLOT DATE = 12/11/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIGRAM, PHASE DESIGNATION DIAGRAM
SCHEDUAL OF QUANTITIES,
COMMERCIAL ENTRANCE AT ROOSEVELT ROAD (IL.RTE.38)

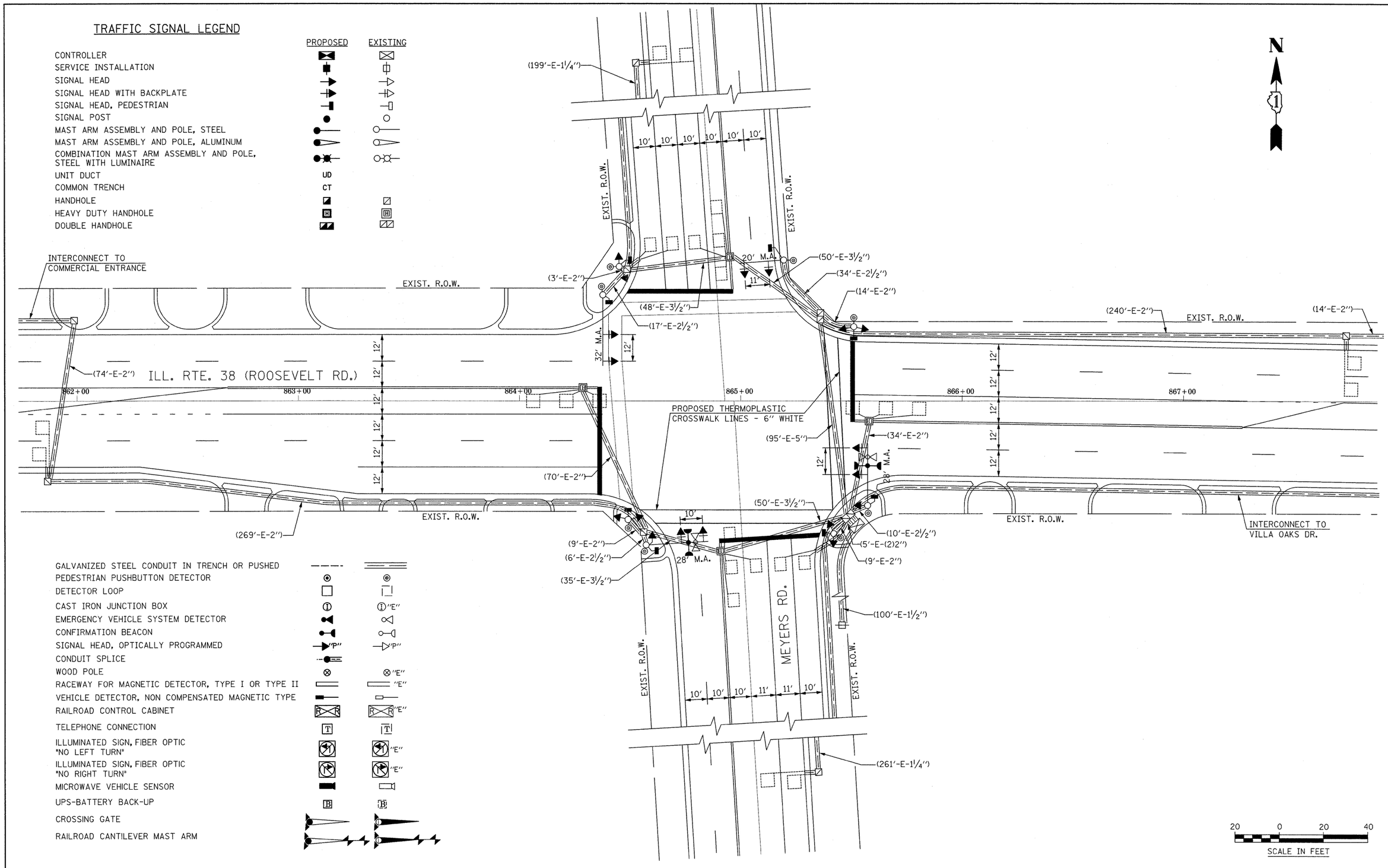
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		16
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	■	⊠
SERVICE INSTALLATION	■	⊟
SIGNAL HEAD	→	⇨
SIGNAL HEAD WITH BACKPLATE	→	⇨
SIGNAL HEAD, PEDESTRIAN	■	⊟
SIGNAL POST	●	○
MAST ARM ASSEMBLY AND POLE, STEEL	●—	○—
MAST ARM ASSEMBLY AND POLE, ALUMINUM	●—	○—
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	●—☼	○—☼
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE	◪	⊠
HEAVY DUTY HANDHOLE	HH	⊞
DOUBLE HANDHOLE	◪◪	⊠⊠

GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED	————
PEDESTRIAN PUSHBUTTON DETECTOR	⊙
DETECTOR LOOP	□
CAST IRON JUNCTION BOX	Ⓘ
EMERGENCY VEHICLE SYSTEM DETECTOR	⋈
CONFIRMATION BEACON	⊸
SIGNAL HEAD, OPTICALLY PROGRAMMED	→"P"
CONDUIT SPLICE	⊸●
WOOD POLE	⊗
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	▭
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	▬
RAILROAD CONTROL CABINET	⊠R
TELEPHONE CONNECTION	T
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	⊘
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	⊘
MICROWAVE VEHICLE SENSOR	▬
UPS-BATTERY BACK-UP	B
CROSSING GATE	
RAILROAD CANTILEVER MAST ARM	



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	PLOT DATE = 12/11/2008	DATE -	REVISED -

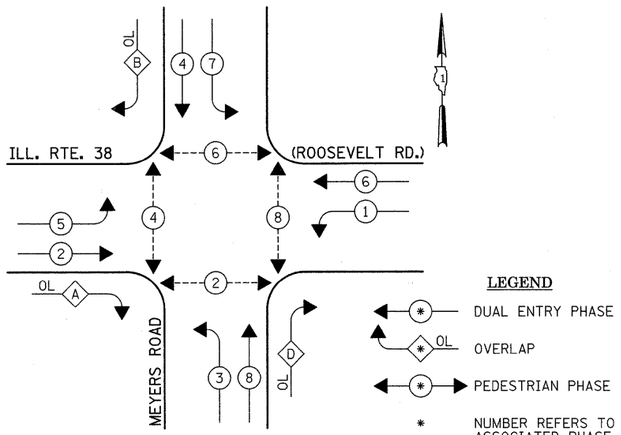
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION
ROOSEVELT RD @ MEYERS /WESTMORE RD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		17
	CONTRACT NO. 60F54			
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		

CONTROLLER SEQUENCE

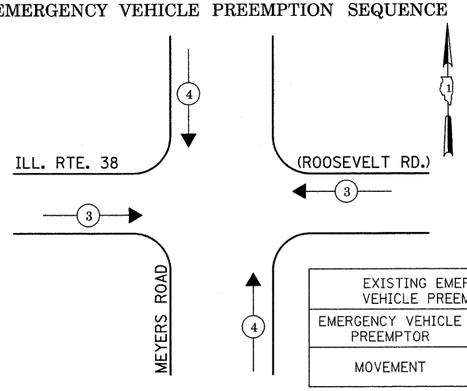


EXISTING PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE

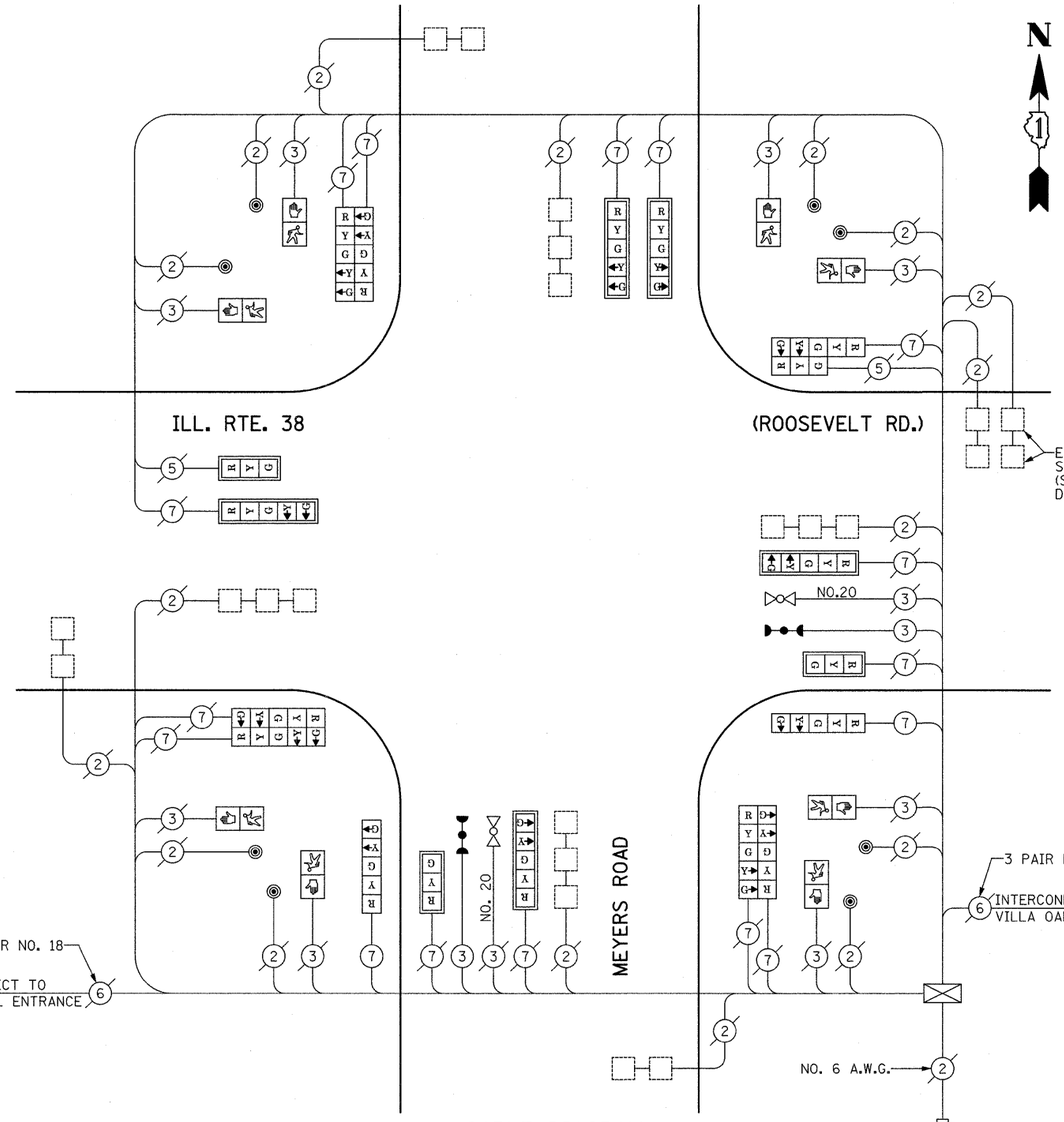


EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701601
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701701
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701801
*250	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
208	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3,SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE
*2	EACH	CONFIRMATION BEACON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
315	FOOT	THERMOPLASTIC PAVEMENT MARKING LINE - 6"

*100% COST TO VILLAGE OF LOMBARD



CABLE DIAGRAM

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	SIGNAL HEAD 1-FACE, 3-SECTION, MAST ARM MOUNTED
7	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5125 2-MM12F & SM12F
R Y G Y G "P"	R Y G Y G "P"	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
R R	R R	RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
M C	M C	LOCAL AND MASTER CONTROLLER
		MICROWAVE VEHICLE SENSOR
B	B	UPS-BATTERY BACK-UP

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	PLOT DATE = 12/11/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIGRAM, PHASE DESIGNATION DIAGRAM
SCHEDUAL OF QUANTITIES,
MEYERS ROAD AT ROOSEVELT ROAD (IL.RTE.38)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2008-066 TS	DUPAGE		18
		CONTRACT NO. 60F54		
FED. ROAD DIST. NO.	ILLINOIS	FAP 347/ILL 38 (ROOSEVELT RD.)		