F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	01
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60T80		

C-91-444-12

INDEX OF SHEETS 03-08-13 LETTING ITEM 061

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGE OF LOMBARD AND UNINCORPORATED DUPAGE COUNTY, ILLINOIS

ILL. ROUTE 64 (NORTH AVE.)
ADT = 58,300 (2011)
DESIGN SPEED = 50 MPH
POSTED SPEED = 45 MPH

PROJECT DESCRIPTION

THIS PROJECT IS TO IMPROVE SAFETY AT EXISTING TRAFFIC SIGNAL LOCATIONS FOR VEHICLES BY MODERNIZING TRAFFIC SIGNAL EQUIPMENT AND TRAFFIC SIGNAL COORDINATION

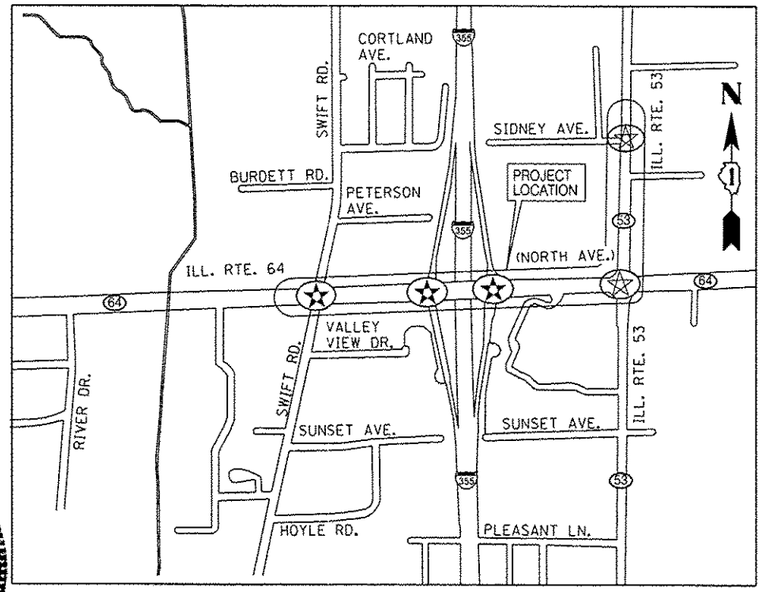
Call Before You Dig
JULIE
ILLINOIS ONE-CALL SYSTEM
1-800-892-0123
It's The Law!

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

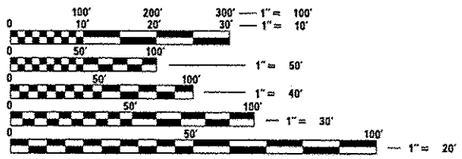
DISTRICT 1
HIGHWAY SAFETY IMPROVEMENT PROJECT (H.S.I.P.)
TRAFFIC SIGNAL MODERNIZATION PLANS
F.A.P. ROUTE 307 – ILL. ROUTE 64 (NORTH AVE.)
FROM SWIFT RD. TO I–355 WB & EB RAMPS
SECTION: 2012–029 TS
IN THE VILLAGE OF LOMBARD, DUPAGE COUNTY
C–91–444–12

PROJECT: HSIP-0307(037)



PROJECT LOCATION
T39N, R10E, SECTION 1 AND T40N, R11E, SECTION 36
LOMBARD TOWNSHIP, VILLAGE OF LOMBARD, DUPAGE COUNTY

LOCATION OF SECTION INDICATED THUS: –



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

P. K. GANDHI
34993
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

P. K. Gandhi. 11/28/2012.
Exp. 11/30/2013.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec. 14 20 12
John Fortmann
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Feb 1 20 13
John D. Baranzelli P.E. for
acting ENGINEER OF DESIGN AND ENVIRONMENT
Feb 1 20 13
Omer Osman P.E. for
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DISTRICT 1 NO. (847) 705–4000
PROJECT ENGINEER: DARYLE A. DREW
UNIT CHIEF: SUDUD MAHMOUD
CONTRACT NO. 60T80

BUREAU OF TRAFFIC – SUDUD MAHMOUD – (847) 705–4420

INDEX OF SHEETS

SHEET NO.	TITLE
01	COVER SHEET
02	INDEX OF SHEETS AND LIST OF STANDARDS
03-09	SUMMARY OF QUANTITIES
10-16	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (7 SHEETS)
17	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN ILL. RTE. 64 (NORTH AVE.) AT SWIFT ROAD (SHEET 1 OF 2)
18	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN ILL. RTE. 64 (NORTH AVE.) AT SWIFT ROAD (SHEET 2 OF 2)
19	TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM ILL. RTE. 64 (NORTH AVE.) AT SWIFT ROAD
20	SIDEWALK AND PAVEMENT MARKING REMOVAL PLAN ILL. RTE 64 (NORTH AVE.) AT SWIFT ROAD
21	TRAFFIC SIGNAL INSTALLATION ILL. RTE 64 (NORTH AVE.) AT SWIFT ROAD (SHEET 1 OF 2)
22	TRAFFIC SIGNAL INSTALLATION ILL. RTE 64 (NORTH AVE.) AT SWIFT ROAD (SHEET 2 OF 2)
23	SIDEWALK AND PAVEMENT MARKING PLAN ILL. RTE 64 (NORTH AVE.) AT SWIFT ROAD (SHEET 1 OF 2)
24	SIDEWALK AND PAVEMENT MARKING PLAN ILL. RTE 64 (NORTH AVE.) AT SWIFT ROAD (SHEET 2 OF 2)
25	CABLE PLAN ILL. RTE. 64 (NORTH AVE.) AT SWIFT ROAD
26	PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES ILL. RTE. 64 (NORTH AVE.) AT SWIFT ROAD
27	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS (SHEET 1 OF 2)
28	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS (SHEET 2 OF 2)
29	TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS
30	TRAFFIC SIGNAL INSTALLATION PLAN ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS (SHEET 1 OF 2)
31	TRAFFIC SIGNAL INSTALLATION PLAN ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS (SHEET 2 OF 2)
32	PAVEMENT MARKING PLAN ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS (SHEET 1 OF 2)
33	PAVEMENT MARKING PLAN ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS (SHEET 2 OF 2)
34	CABLE PLAN ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS
35	PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS
36	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS (SHEET 1 OF 2)
37	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS (SHEET 2 OF 2)
38	TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS
39	TRAFFIC SIGNAL INSTALLATION PLAN ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS (SHEET 1 OF 2)
40	TRAFFIC SIGNAL INSTALLATION PLAN ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS (SHEET 2 OF 2)
41	PAVEMENT MARKING PLAN ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS (SHEET 1 OF 2)
42	PAVEMENT MARKING PLAN ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS (SHEET 2 OF 2)
43	CABLE PLAN ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS
44	PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS
45	TEMPORARY INTERCONNECT PLAN ILL. RTE. 64 (NORTH AVE.) FROM SWIFT RD. TO ILL. RTE. 53 (ROHLWING RD.) (SHEET 1 OF 2)
46	TEMPORARY INTERCONNECT PLAN ILL. RTE. 64 (NORTH AVE.) FROM SWIFT RD. TO ILL. RTE. 53 (ROHLWING RD.) (SHEET 2 OF 2)
47	TEMPORARY INTERCONNECT SCHEMATIC ILL. RTE. 64 (NORTH AVE.) FROM SWIFT RD. TO ILL. RTE. 53 (ROHLWING RD.)
48	INTERCONNECT PLAN ILL. RTE. 64 (NORTH AVE.) FROM SWIFT RD. TO ILL. RTE. 53 (ROHLWING RD.) (SHEET 1 OF 2)
49	INTERCONNECT PLAN ILL. RTE. 64 (NORTH AVE.) FROM SWIFT RD. TO ILL. RTE. 53 (ROHLWING RD.) (SHEET 2 OF 2)
50	INTERCONNECT SCHEMATIC ILL. RTE. 64 (NORTH AVE.) FROM SWIFT RD. TO ILL. RTE. 53 (ROHLWING RD.)
51	MAST ARM MOUNTED STREET NAME SIGNS
52	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
53	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
54	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
55	ARTERIAL ROAD INFORMATION SIGN

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION. THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (841) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES. LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES. CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (12) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED.

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. , AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGED TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

IDOT STANDARDS

STD. NO.	DESCRIPTION
000001 - 06	ABBREVIATIONS, SYMBOLS AND PATTERNS
001001 - 02	REINFORCEMENT BARS, AREAS, WEIGHTS AND SPACING
001006	DECIMAL EQUIVALENTS OF AN INCH AND FOOT
424001 - 07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006 - 01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424021 - 01	DEPRESSED CORNER FOR SIDEWALKS
442201 - 03	PATCHING, CLASS C AND D
606001 - 04	CURB TYPE B AND COMBINATION CURB AND GUTTER, CONCRETE
606301 - 04	MEDIAN, CONCRETE
701006 - 04	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011 - 03	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101 - 03	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301 - 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701421 - 05	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS $\geq$ 45 MPH TO 55 MPH
701422 - 05	LANE CLOSURE, MULTILANE, FOR SPEEDS $\geq$ 45 MPH TO 55 MPH
701456 - 02	PARTIAL EXIT RAMP CLOSURE FREEWAY /EXPRESSWAY
701501 - 06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601 - 08	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701 - 08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901 - 02	TRAFFIC CONTROL DEVICES
720001 - 01	SIGN PANEL MOUNTING DETAILS
780001 - 03	PAVEMENT MARKINGS
805001 - 01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001 - 02	HANDHOLES
814006 - 02	DOUBLE HANDHOLES
857001 - 01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001 - 01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001 - 02	TRAFFIC SIGNAL GROUNDING & BONDING
877001 - 05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002 - 02	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001 - 09	CONCRETE FOUNDATION DETAILS
880001 - 01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006 - 01	TRAFFIC SIGNAL MOUNTING DETAILS
886001 - 01	DETECTOR LOOP INSTALLATIONS
886006 - 01	TYPICAL LAYOUTS FOR DETECTION LOOPS

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER. DETECTION SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND LIST OF STANDARDS

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	02
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

URBAN

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ILL. RTE. 64 (NORTH AVE.) AT SWIFT RD.	ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS	ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS	INTERCONNECT	EMERGENCY VEHICLE PREEMPTION
				90% FEDERAL 5% STATE 5% COUNTY	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF LOMBARD
				0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	961	961	-	-	-	-
42400800	DETECTABLE WARNINGS	SQ FT	78	78	-	-	-	-
44000100	PAVEMENT REMOVAL	SQ YD	14.6	14.6	-	-	-	-
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	230	230	-	-	-	-
44201857	CLASS D PATCHES, TYPE IV, 17 INCH	SQ YD	51	51	-	-	-	-
48301000	PROTECTIVE COAT	SQ YD	51	51	-	-	-	-
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	125	125	-	-	-	-
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	43	43	-	-	-	-
60608250	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.06	FOOT	5	5	-	-	-	-
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	1.67	1.67	1.66	-	-
67100100	MOBILIZATION	LSUM	1	0.33	0.33	0.34	-	-
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	LSUM	1	0.33	0.33	0.34	-	-
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	1	0.33	0.33	0.34	-	-
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	0.33	0.33	0.34	-	-

FILE NAME = *FILE*	USER NAME = $USER*	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - EA, MG	REVISED -	
	PLOT SCALE = *SCALE*	CHECKED - PKG	REVISED -	
	PLOT DATE = *DATE*	DATE - 12/7/2012	REVISED -	

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 1 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	03
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

URBAN

	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
					ILL. RTE. 64 (NORTH AVE.) AT SWIFT RD.	ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS	ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS	INTERCONNECT	EMERGENCY VEHICLE PREEMPTION
					90% FEDERAL 5% STATE 5% COUNTY	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF LOMBARD
					0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1	0.33	0.33	0.34	-	-
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1	0.33	0.33	0.34	-	-
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	0.33	0.33	0.34	-	-
*	72000100	SIGN PANEL - TYPE 1	SQ FT	107	42	32.5	32.5	-	-
*	72000200	SIGN PANEL - TYPE 2	SQ FT	50	25	12.5	12.5	-	-
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	546	546	-	-	-	-
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	530	530	-	-	-	-
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	724	724	-	-	-	-
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	352	352	-	-	-	-
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	222	222	-	-	-	-
*	78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	800	-	400	400	-	-
*	78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	360	-	176	184	-	-
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	382	198	112	72	-	-
	80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1	-	-	1	-	-

* Specialty Items

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	
		DRAWN - EA, MG	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -	
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	04
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

URBAN

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ILL. RTE. 64 (NORTH AVE.) AT SWIFT RD.	ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS	ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS	INTERCONNECT	EMERGENCY VEHICLE PREEMPTION
				90% FEDERAL 5% STATE 5% COUNTY	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF LOMBARD
				0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2	1	1	-	-	-
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	6191	1299	1503	1729	1660	-
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	778	80	318	380	-	-
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	734	182	229	323	-	-
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1334	631	246	457	-	-
81400100	HANDHOLE	EACH	31	8	10	11	2	-
81400200	HEAVY-DUTY HANDHOLE	EACH	7	4	2	1	-	-
81400300	DOUBLE HANDHOLE	EACH	6	2	1	3	-	-
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	-	-	-	1	-
86400100	TRANSCEIVER - FIBER OPTIC	EACH	3	1	1	1	-	-
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3589	-	-	-	3589	-
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1369	1369	-	-	-	-
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3031	1842	-	-	-	1189
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	10714	3815	3414	3485	-	-

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES
		DRAWN - EA, MG	REVISED -		
	PLOT SCALE = *SCALE*	CHECKED - PKG	REVISED -		SCALE: N.T.S. | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.
	PLOT DATE = *DATE*	DATE - 12/7/2012	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	05
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

URBAN

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ILL. RTE. 64 (NORTH AVE.) AT SWIFT RD.	ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS	ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS	INTERCONNECT	EMERGENCY VEHICLE PREEMPTION
				90% FEDERAL 5% STATE 5% COUNTY	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF LOMBARD
				0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3372	1928	754	690	-	-
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	11859	4193	3490	4176	-	-
87301790	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2 2C	FOOT	1119	-	601	518	-	-
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	163	129	-	34	-	-
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	4076	1078	1415	1583	-	-
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	12	2	5	5	-	-
87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	3	-	1	2	-	-
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3	3	-	-	-	-
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	-	-	1	-	-
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1	-	1	-	-	-
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	3	1	1	1	-	-
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1	1	-	-	-	-
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1	1	-	-	-	-
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	2	-	1	1	-	-

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ILL. RTE. 64 (NORTH AVE.) AT SWIFT RD.	ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS	ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS	INTERCONNECT	EMERGENCY VEHICLE PREEMPTION
				90% FEDERAL 5% STATE 5% COUNTY	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF LOMBARD
				0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN
87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1	1	-	-	-	-
87700408	STEEL MAST ARM ASSEMBLY AND POLE, 64 FT.	EACH	1	1	-	-	-	-
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	72	20	24	28	-	-
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	12	4	4	4	-	-
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5	-	13.5	10	-	-
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	100	52	24	24	-	-
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21	21	-	-	-	-
87900200	DRILL EXISTING HANDHOLE	EACH	1	-	-	-	1	-
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	24	8	8	8	-	-
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	13	1	6	6	-	-
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	-	1	1	-	-
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1	-	-	-	-
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	8	6	1	1	-	-
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1	-	-	-	-

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	07
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ILL. RTE. 64 (NORTH AVE.) AT SWIFT RD.	ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS	ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS	INTERCONNECT	EMERGENCY VEHICLE PREEMPTION
				90% FEDERAL 5% STATE 5% COUNTY	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF LOMBARD
				0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3-SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	4	2	1	1	-	-
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	2	-	-	-	-
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3	3	-	-	-	-
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	18	14	2	2	-	-
88500100	INDUCTIVE LOOP DETECTOR	EACH	40	14	12	14	-	-
88600100	DETECTOR LOOP, TYPE I	FOOT	2923	1004	885	1034	-	-
88700200	LIGHT DETECTOR	EACH	6	-	-	-	-	6
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2	-	-	-	-	2
88800100	PEDESTRIAN PUSH-BUTTON	EACH	6	6	-	-	-	-
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3	1	1	1	-	-
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	58	-	-	-	58	-
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1	1	1	-	-
89502380	REMOVE EXISTING HANDHOLE	EACH	38	12	9	12	5	-
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	4	1	1	2	-	-

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	08
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ILL. RTE. 64 (NORTH AVE.) AT SWIFT RD.	ILL. RTE. 64 (NORTH AVE.) AT WEST RAMPS	ILL. RTE. 64 (NORTH AVE.) AT EAST RAMPS	INTERCONNECT	EMERGENCY VEHICLE PREEMPTION
				90% FEDERAL 5% STATE 5% COUNTY	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF LOMBARD
				0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	23	5	9	9	-	-
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1189	-	-	-	-	1189
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	766	766	-	-	-	-
X8570226	FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL	EACH	2	1	1	-	-	-
X8570231	FULL-ACTUATED CONTROLLER AND CABINET, TYPE V, SPECIAL	EACH	1	-	-	1	-	-
X8600105	MASTER CONTROLLER (SPECIAL)	EACH	1	-	-	-	1	-
X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	3	1	1	1	-	-
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3667	-	-	-	3667	-
X8760055	PEDESTRIAN PUSHBUTTON POST, TYPE A	EACH	1	1	-	-	-	-
X8820010	TRAFFIC SIGNAL BACKPLATE, SPECIAL	EACH	14	-	7	7	-	-
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	205.6	77.1	51.4	77.1	-	-
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1	-	-	-	1	-
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	1	1	1	-	-
⊙ Z0076600	TRAINEES	HOUR	1,000	1,000				
⊙ Z0076604	TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000				

⊙ 0042

Rev.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - EA, MG	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -	
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -	

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	09
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6'' (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT 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.

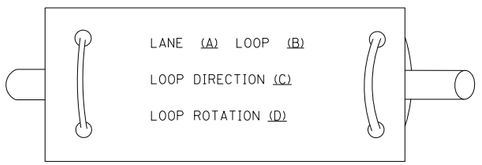
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

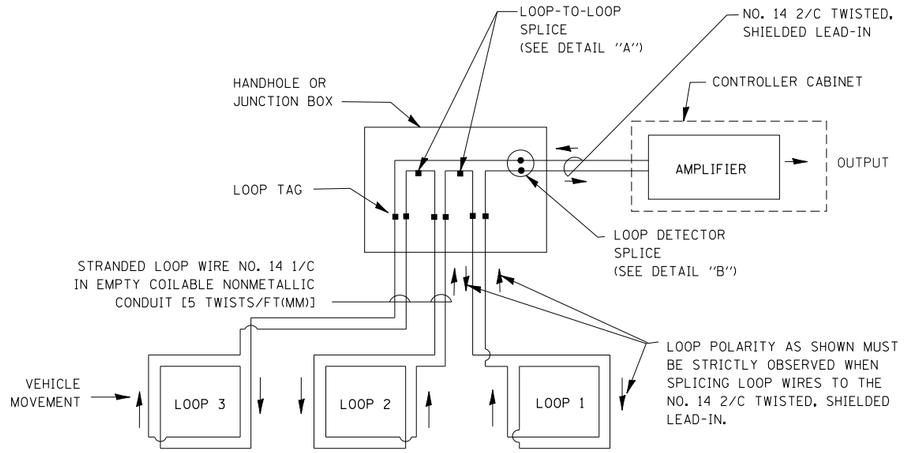


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

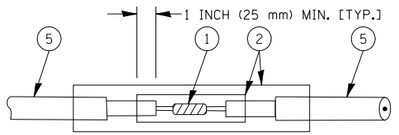
C. LABEL LOOP CABLE ''IN'' OR LOOP CABLE ''OUT''.

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

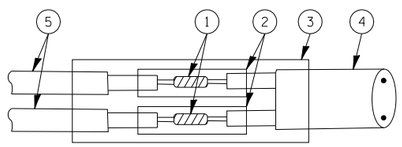


DETECTOR LOOP WIRING SCHEMATIC

- 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.

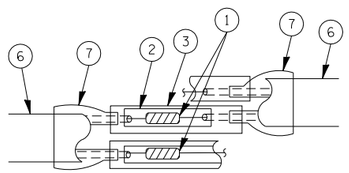


DETAIL ''A''
LOOP-TO-LOOP SPLICE



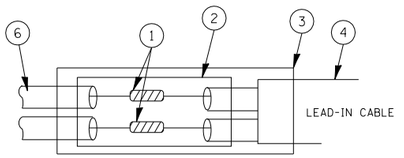
DETAIL ''B''
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL ''A''
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



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.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112614\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

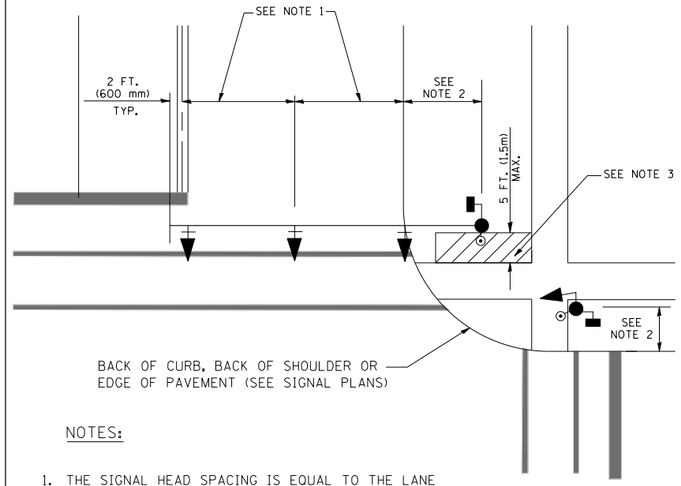
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	10
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

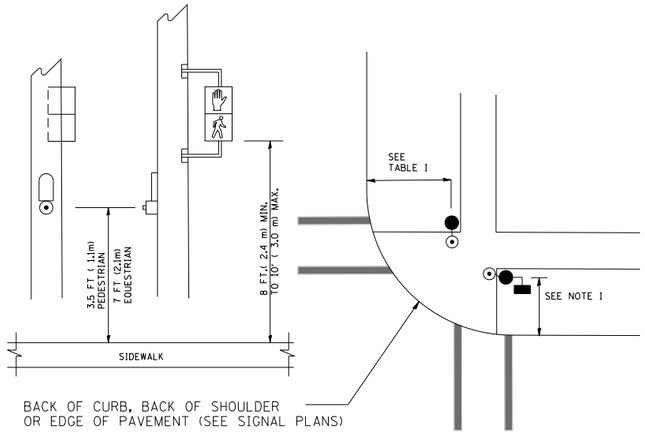
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

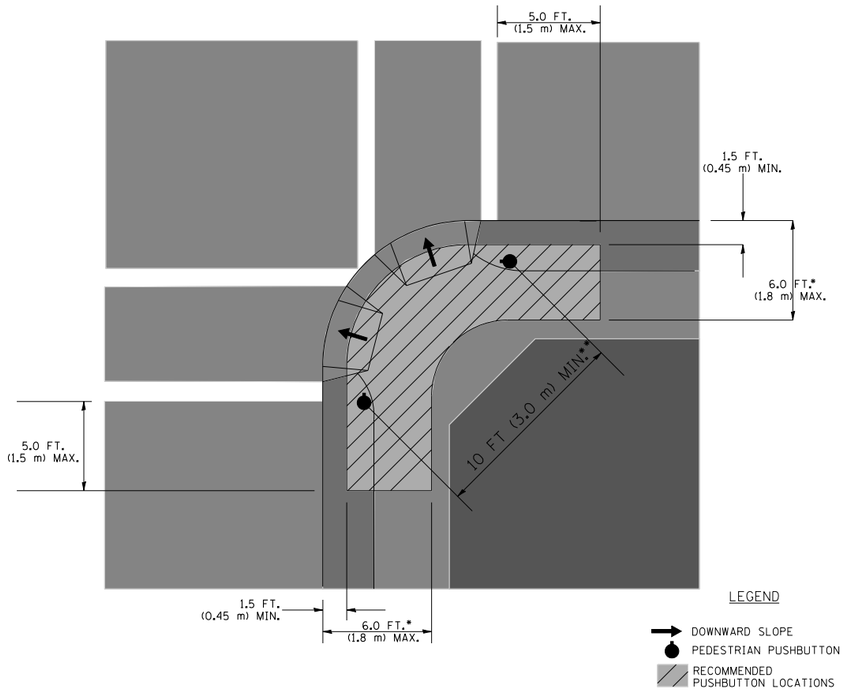
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

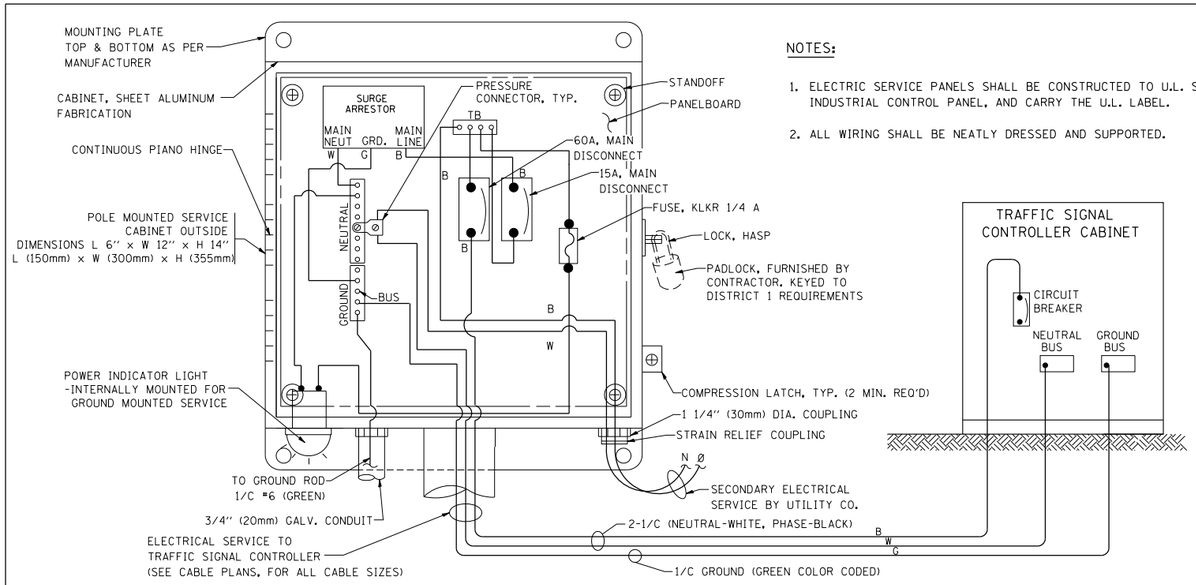
FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112644\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	11
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



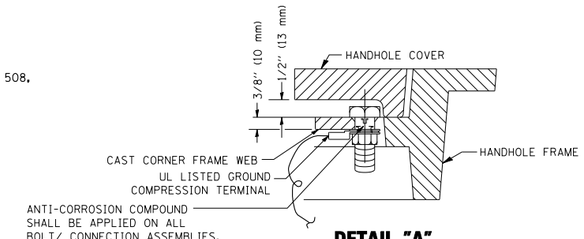
NOTES:

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.

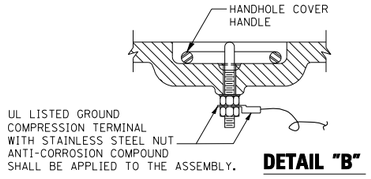
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

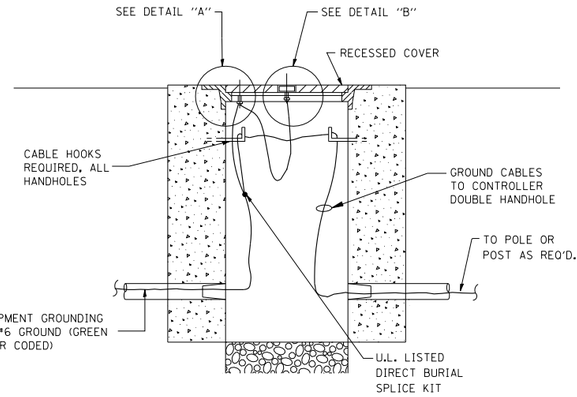


DETAIL "B"

NOTES:

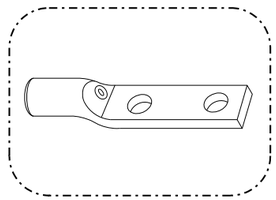
GROUNDING SYSTEM

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.

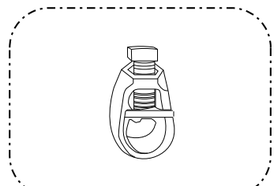


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



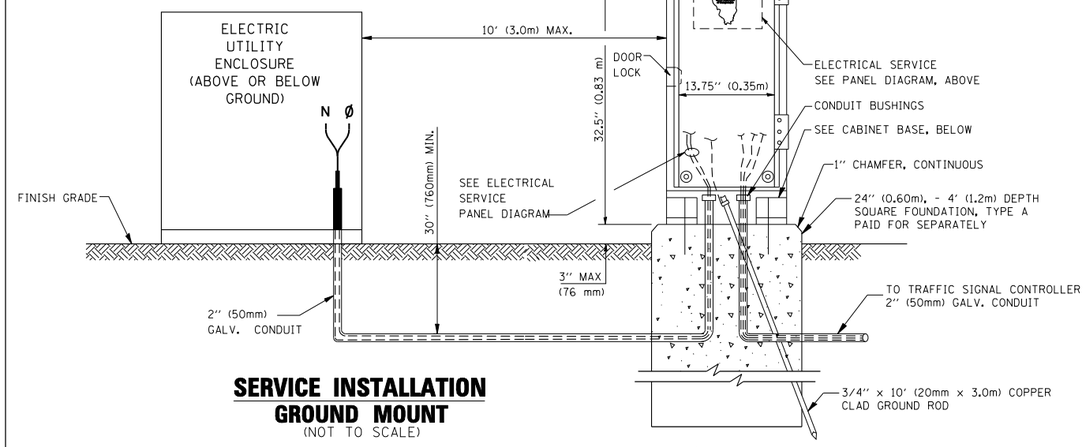
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

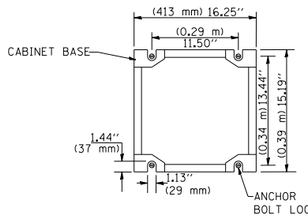
NOTES:

- 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.



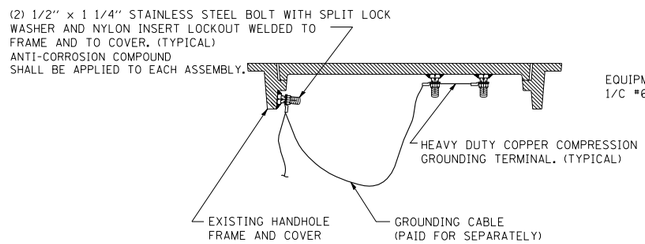
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



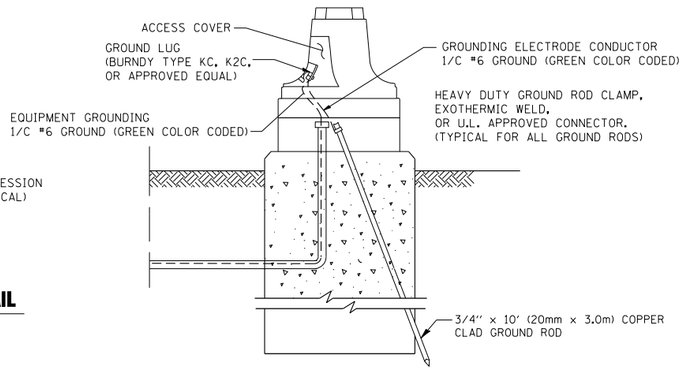
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

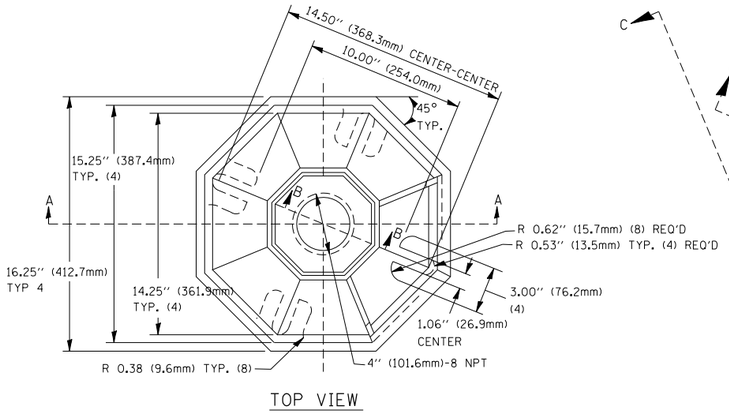
FILE NAME = c:\pw_work\PWIDOT\KANTHAPH\XAYBC\d0112614\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

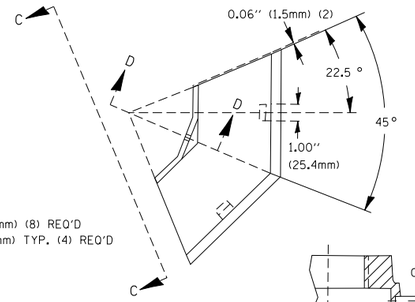
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

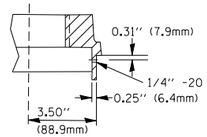
SCALE: | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	12
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

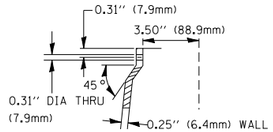


TOP VIEW

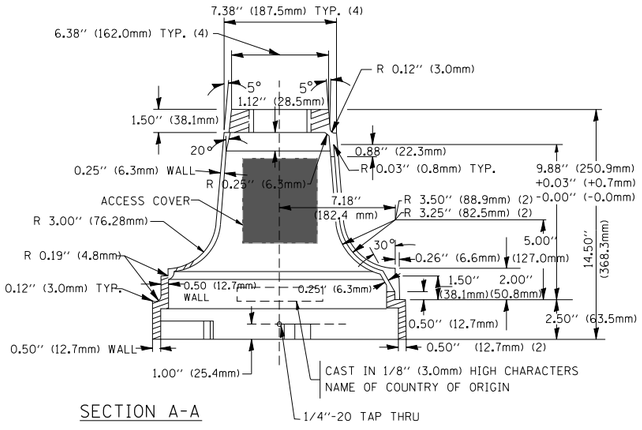




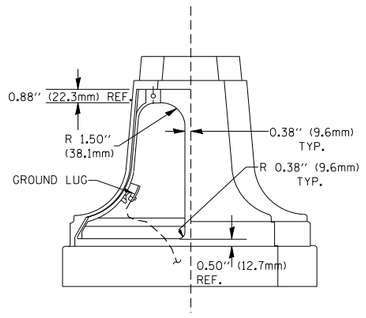
SECTION B-B



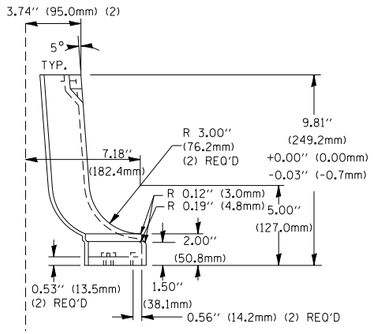
SECTION D-D



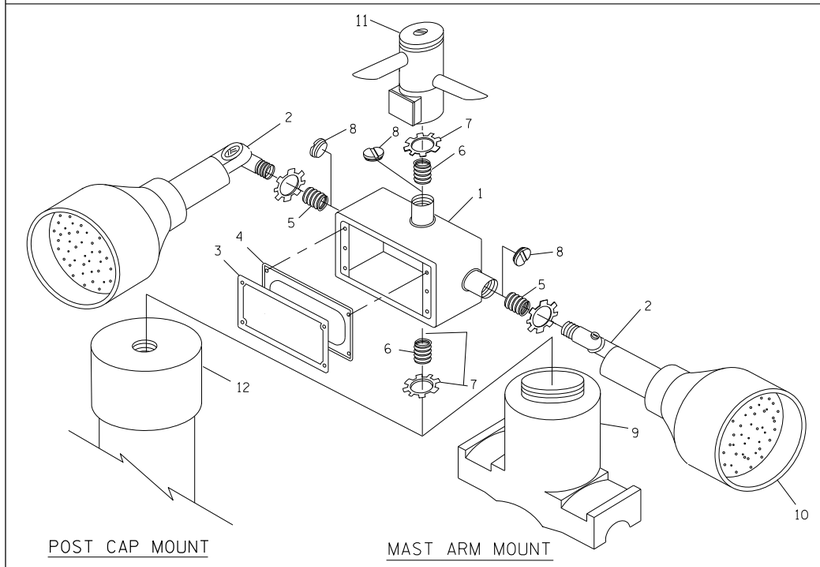
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



POST CAP MOUNT

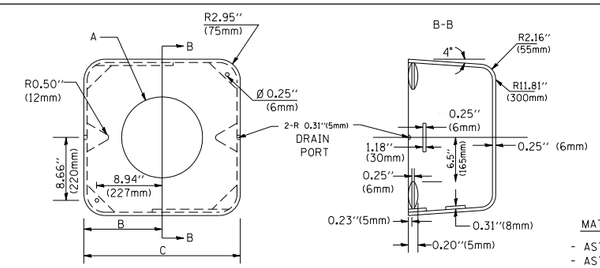
MAST ARM MOUNT

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	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

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.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

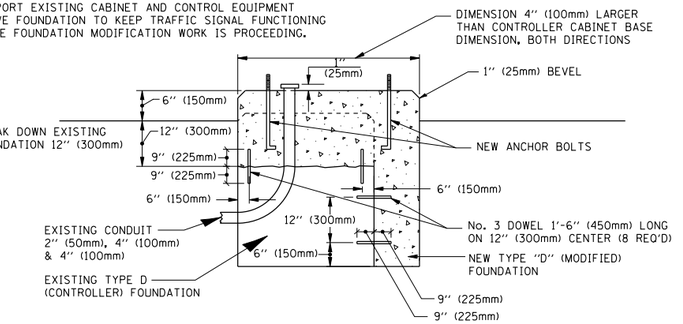
A	B	C	HEIGHT	WEIGHT
VARIES	9.5''(241mm)	19''(483mm)	7'' (178mm) - 12'' (300mm)	53 lbs (24kg)
VARIES	10.75''(273mm)	21.5''(546mm)	7'' (178mm) - 12'' (300mm)	68 lbs (31 kg)
VARIES	13.0''(330mm)	26''(660mm)	7'' (178mm) - 12'' (300mm)	81 lbs (37 kg)
VARIES	18.5''(470mm)	37''(940mm)	7'' (178mm) - 12'' (300mm)	126 lbs (57 kg)

SHROUD

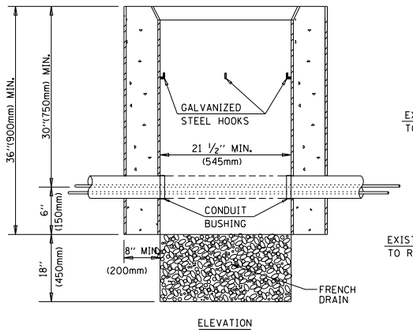
NOTES:

1. DIMENSION ''A'' IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

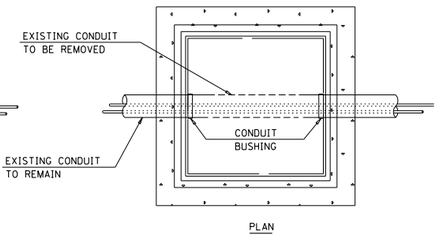
NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE ''D'' FOUNDATION



ELEVATION



PLAN

NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

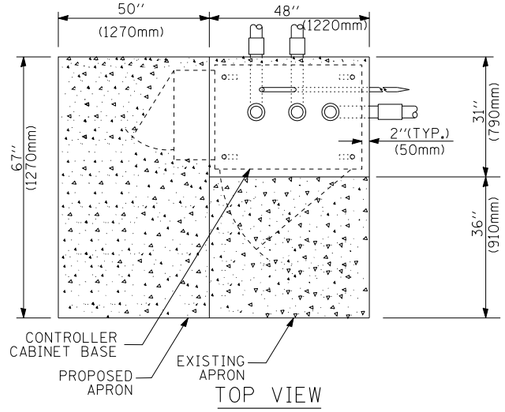
FILE NAME = c:\pw_work\PWIDOT\KANTHAPH\XAYBC\d0112644\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

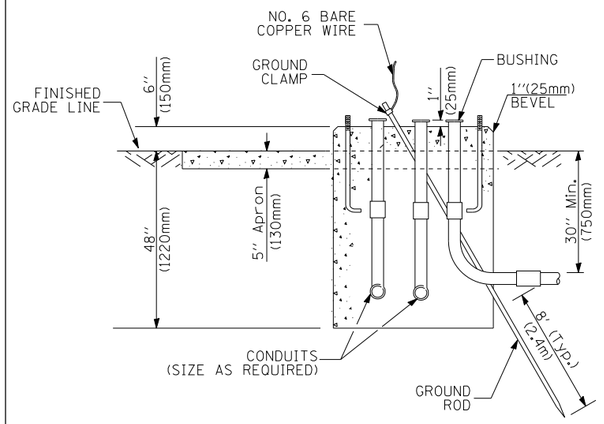
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

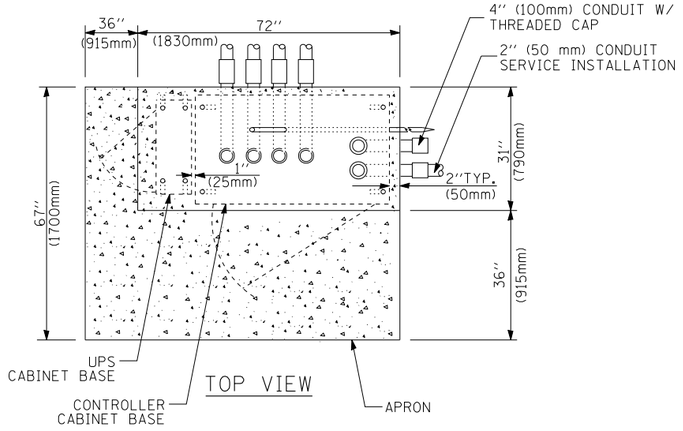
SCALE: | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

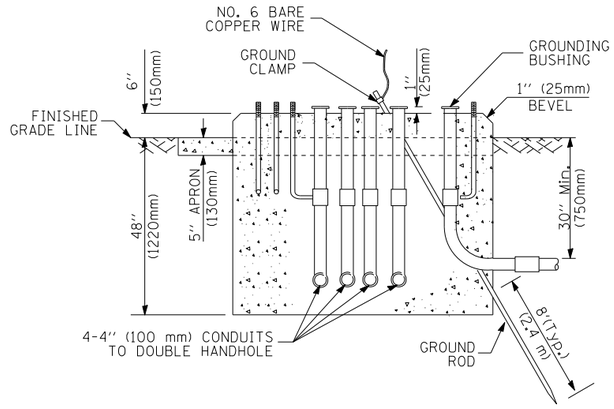
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	13
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



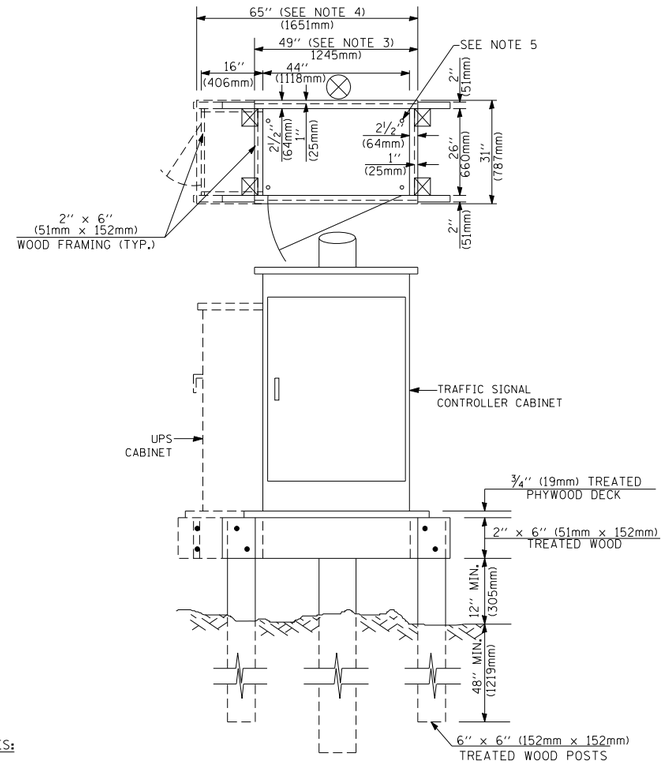


TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET





TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26'' x 44'' (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16'' x 25'' (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0'' (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0'' (1.2m)
TYPE D - CONTROLLER	4'-0'' (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0'' (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6'' (4.1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
	11'-0'' (3.4 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0'' (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36'' (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42'' (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112644\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	14
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		B-R	B-R
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ◀Y ◀G	R Y G ◀Y ◀G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G ◀Y ◀G "P"	R Y G ◀Y ◀G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		I	I

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		I	I
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

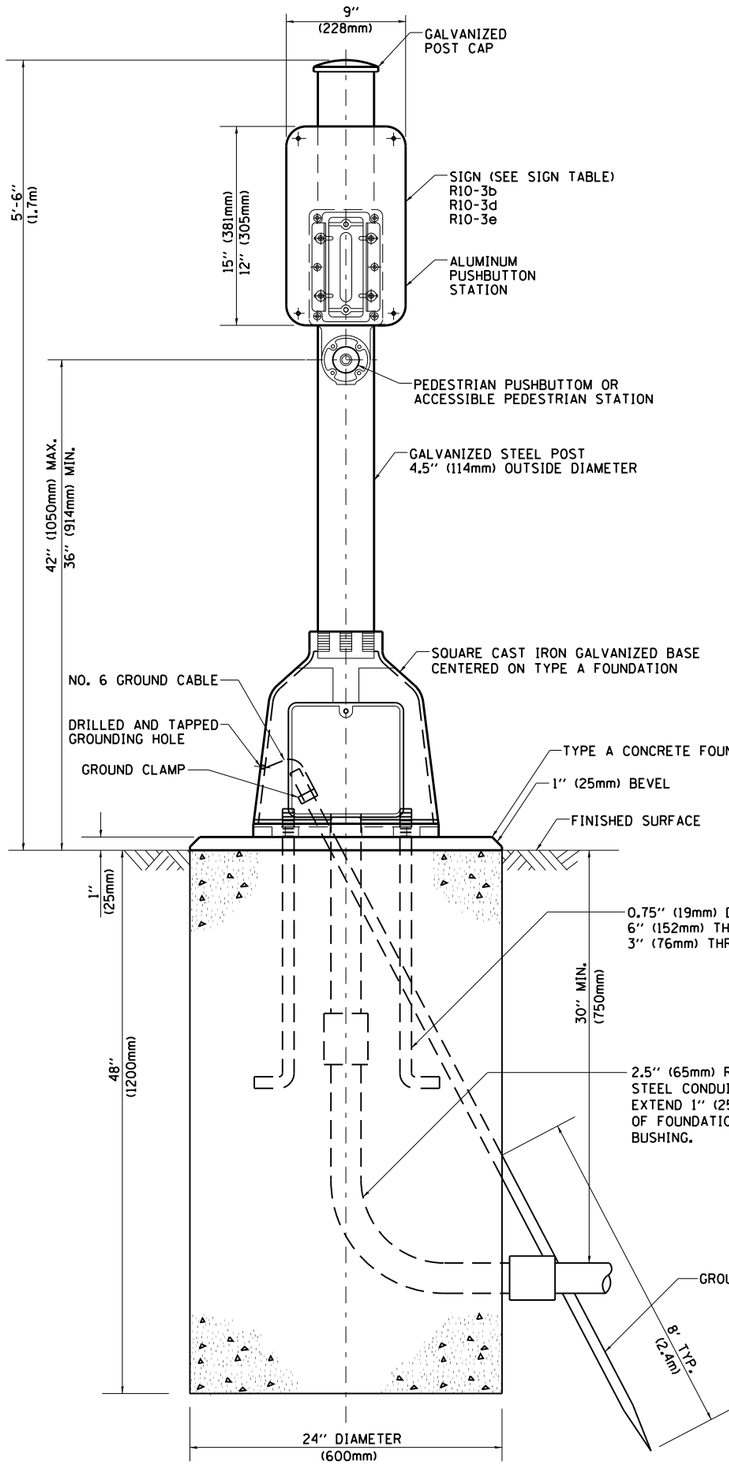
FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112644\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAG/BCK	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

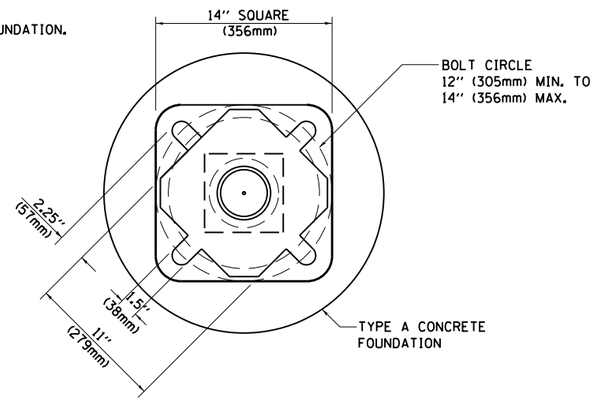
SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	15
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



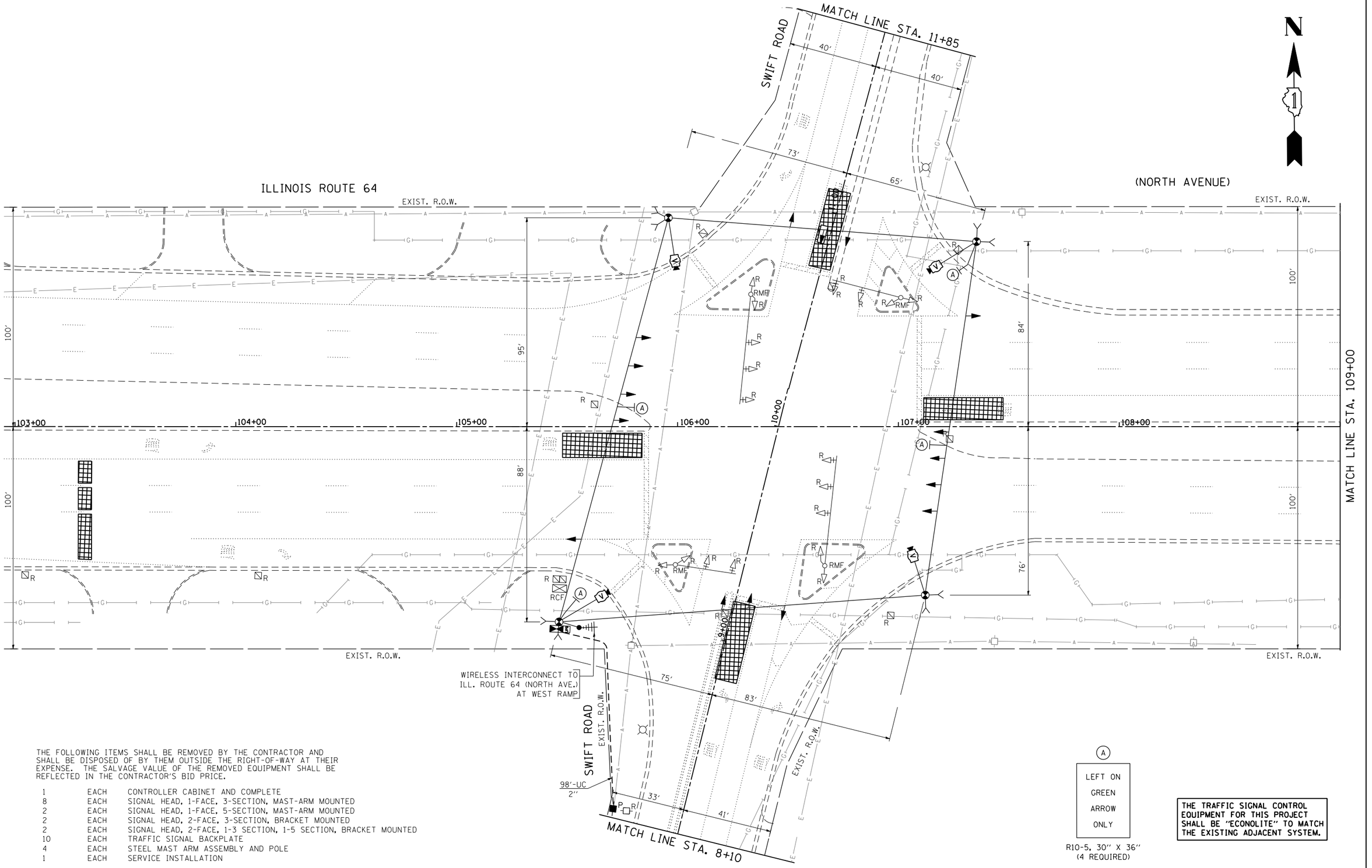
SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)



BOLT PATTERN

FILE NAME = c:\pw_work\pwidot\leysa\d0108315\ts09.dgn	USER NAME = leysa	DESIGNED - DAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 PEDESTRIAN PUSH BUTTON POST, TYPE A				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - GND	REVISED -						307	2012-029-TS	DuPAGE	55	16
	PLOT SCALE = 100.0000 ' / in.	CHECKED - DAD	REVISED -							TS-09		CONTRACT NO. 60T80	
	PLOT DATE = 10/5/2012	DATE - 10/1/2012	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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 CONTRACTOR'S BID PRICE.

1	EACH	CONTROLLER CABINET AND COMPLETE
8	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
10	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	STEEL MAST ARM ASSEMBLY AND POLE
1	EACH	SERVICE INSTALLATION

(A)

LEFT ON GREEN ARROW ONLY

R10-5, 30" X 36"
(4 REQUIRED)

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

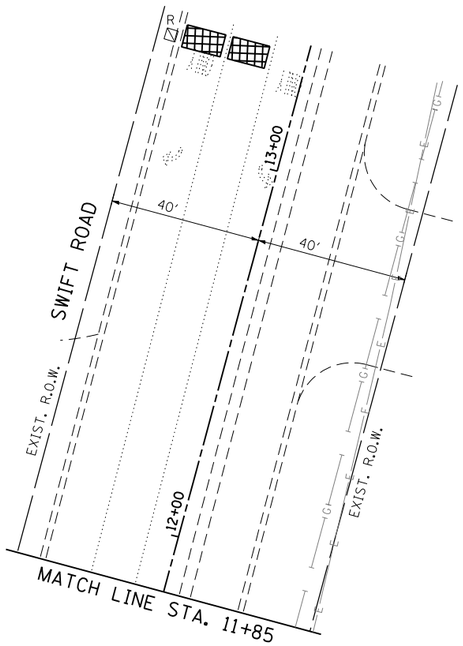
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

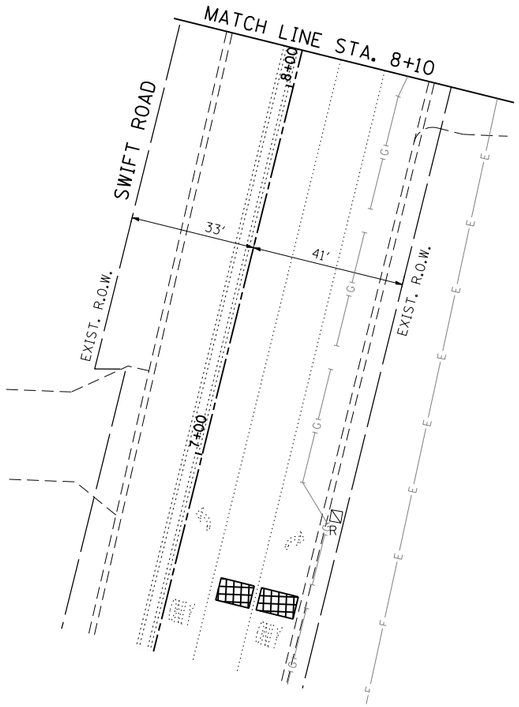
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

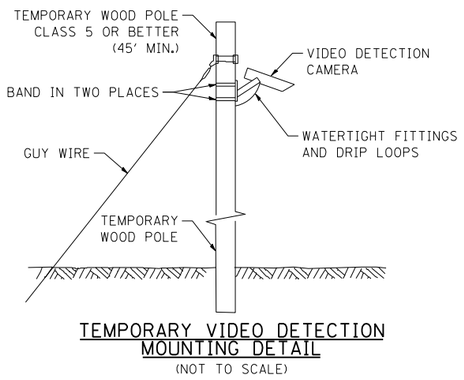
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD
(SHEET 1 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	17
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

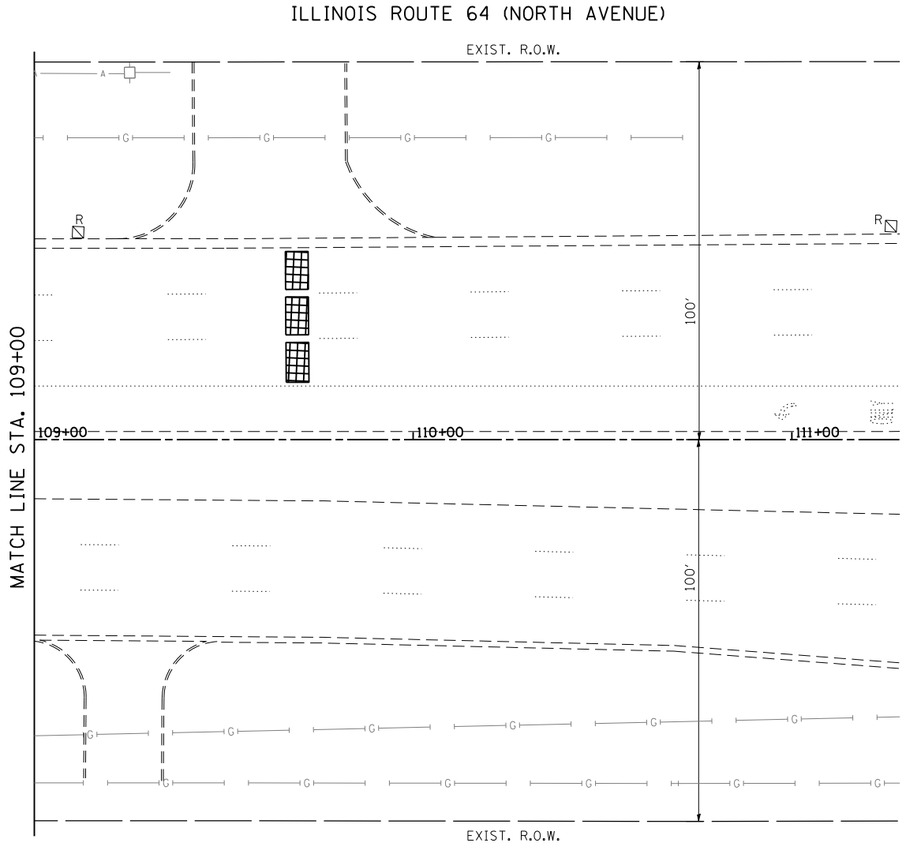






TEMPORARY VIDEO DETECTION MOUNTING DETAIL

(NOT TO SCALE)



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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

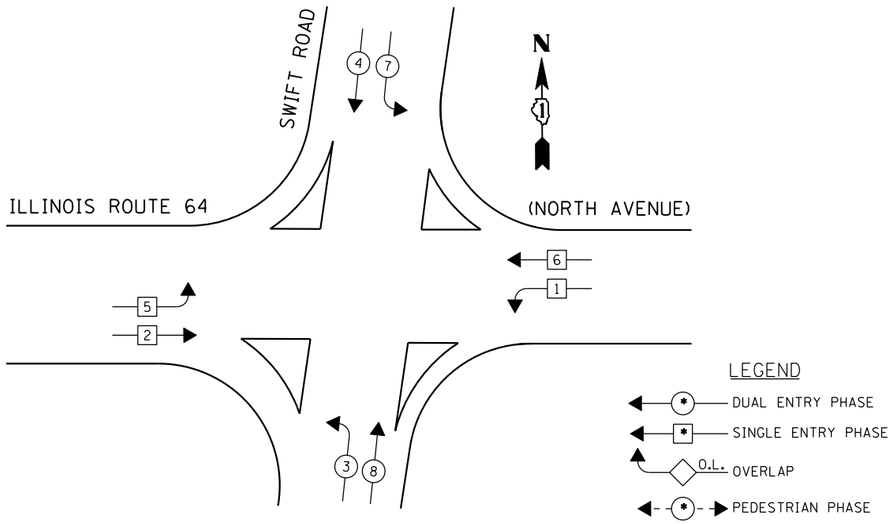
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD
(SHEET 2 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

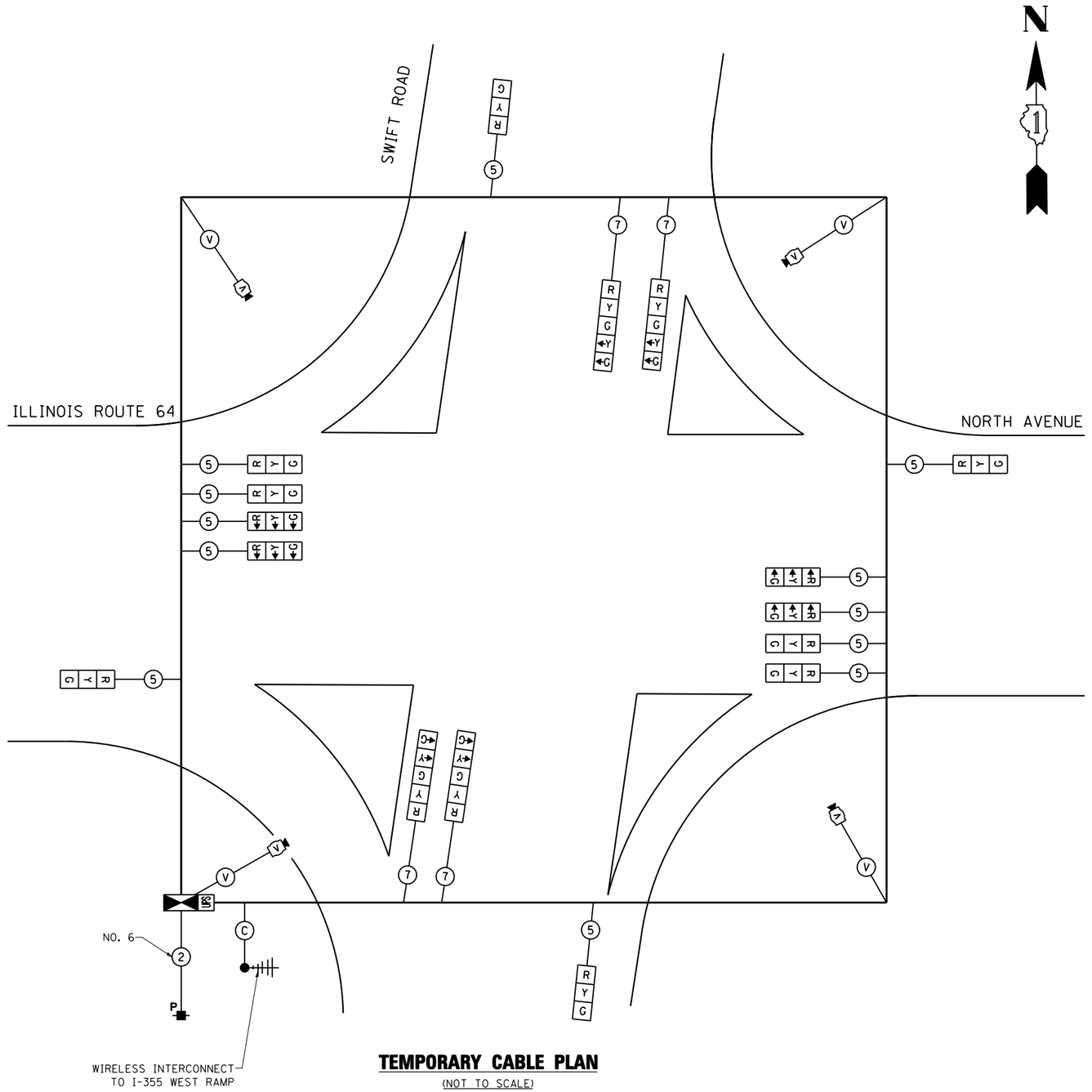
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	18
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

(NOT TO SCALE)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS X	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	16		17	0.50	136
(YELLOW)	16		25	0.25	100
(GREEN)	16		15	0.25	60
ARROW	8		12	0.10	9.6
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	555.6

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COMMONWEALTH EDISON

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

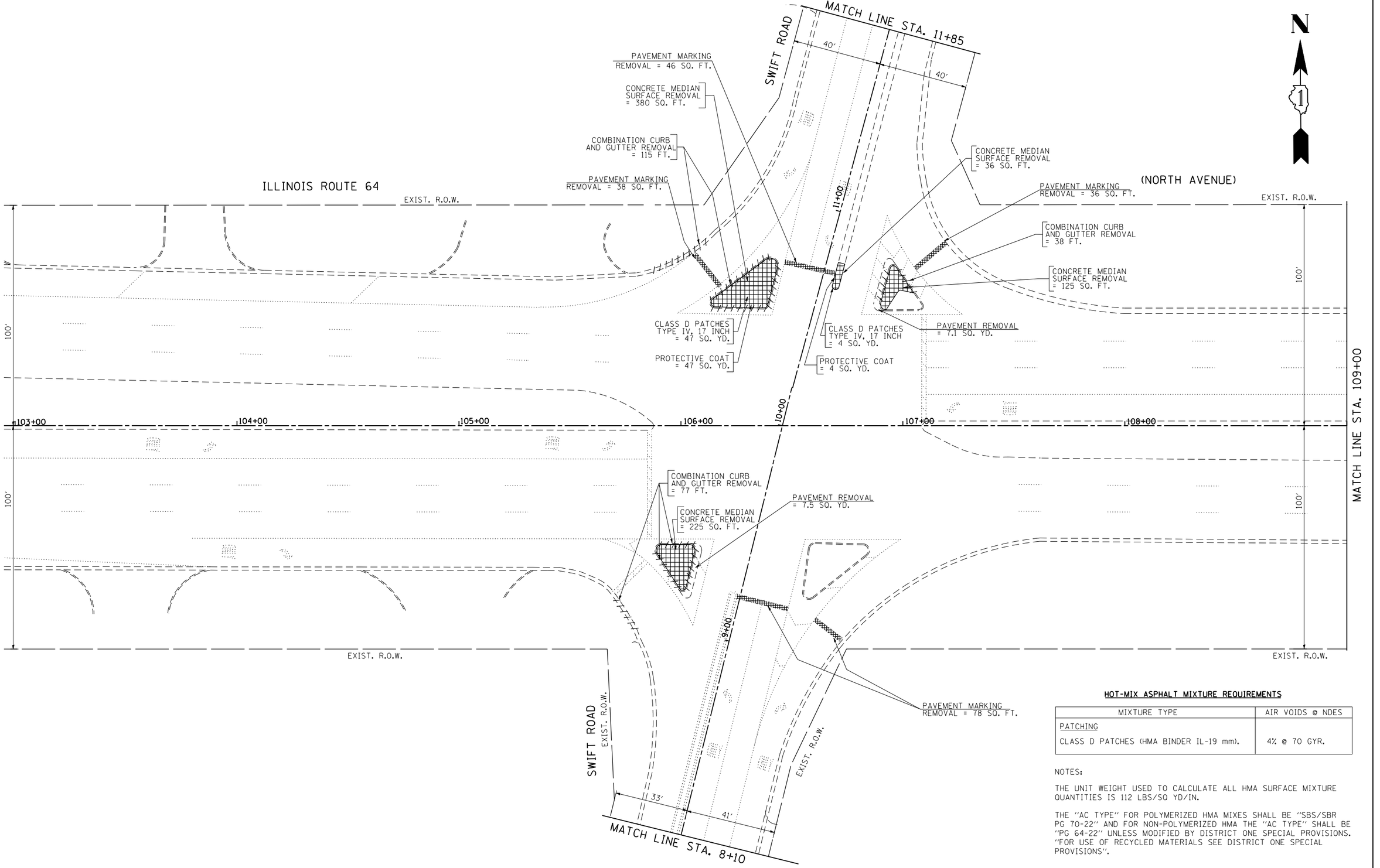
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM
ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	19
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm).	4% @ 70 GYR.

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. "FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS".

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK AND PAVEMENT MARKING REMOVAL PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	20
		CONTRACT NO. 60T80		

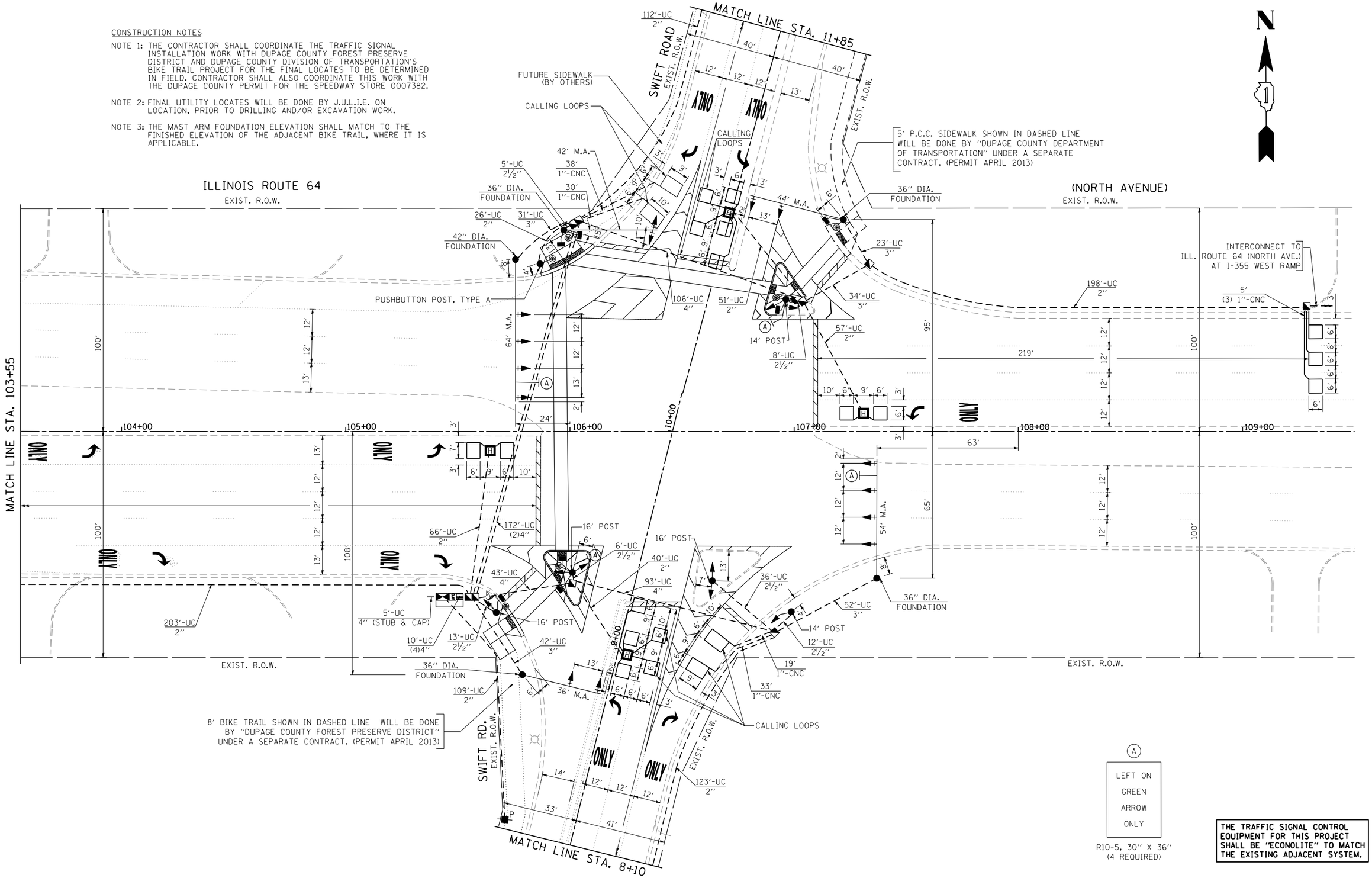
FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

CONSTRUCTION NOTES

NOTE 1: THE CONTRACTOR SHALL COORDINATE THE TRAFFIC SIGNAL INSTALLATION WORK WITH DUPAGE COUNTY FOREST PRESERVE DISTRICT AND DUPAGE COUNTY DIVISION OF TRANSPORTATION'S BIKE TRAIL PROJECT FOR THE FINAL LOCATES TO BE DETERMINED IN FIELD. CONTRACTOR SHALL ALSO COORDINATE THIS WORK WITH THE DUPAGE COUNTY PERMIT FOR THE SPEEDWAY STORE 0007382.

NOTE 2: FINAL UTILITY LOCATES WILL BE DONE BY J.U.L.I.E. ON LOCATION, PRIOR TO DRILLING AND/OR EXCAVATION WORK.

NOTE 3: THE MAST ARM FOUNDATION ELEVATION SHALL MATCH TO THE FINISHED ELEVATION OF THE ADJACENT BIKE TRAIL, WHERE IT IS APPLICABLE.



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

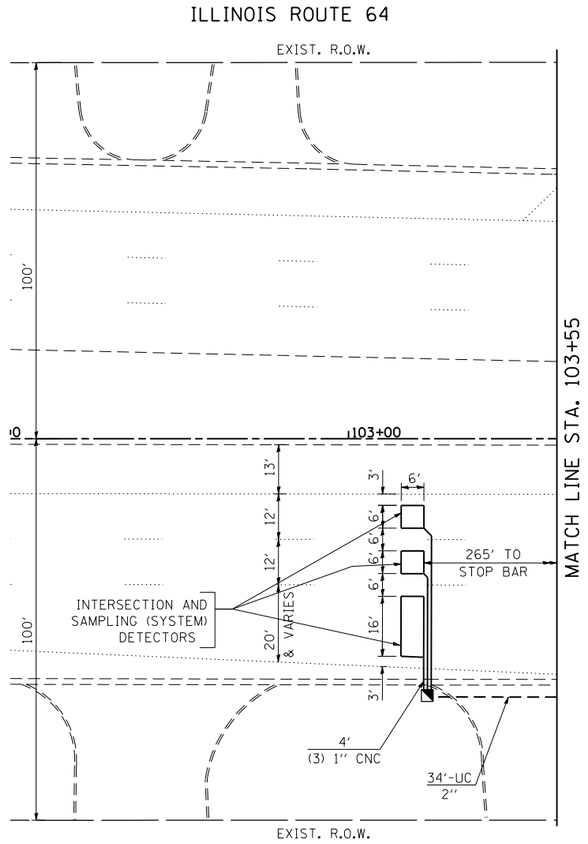
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

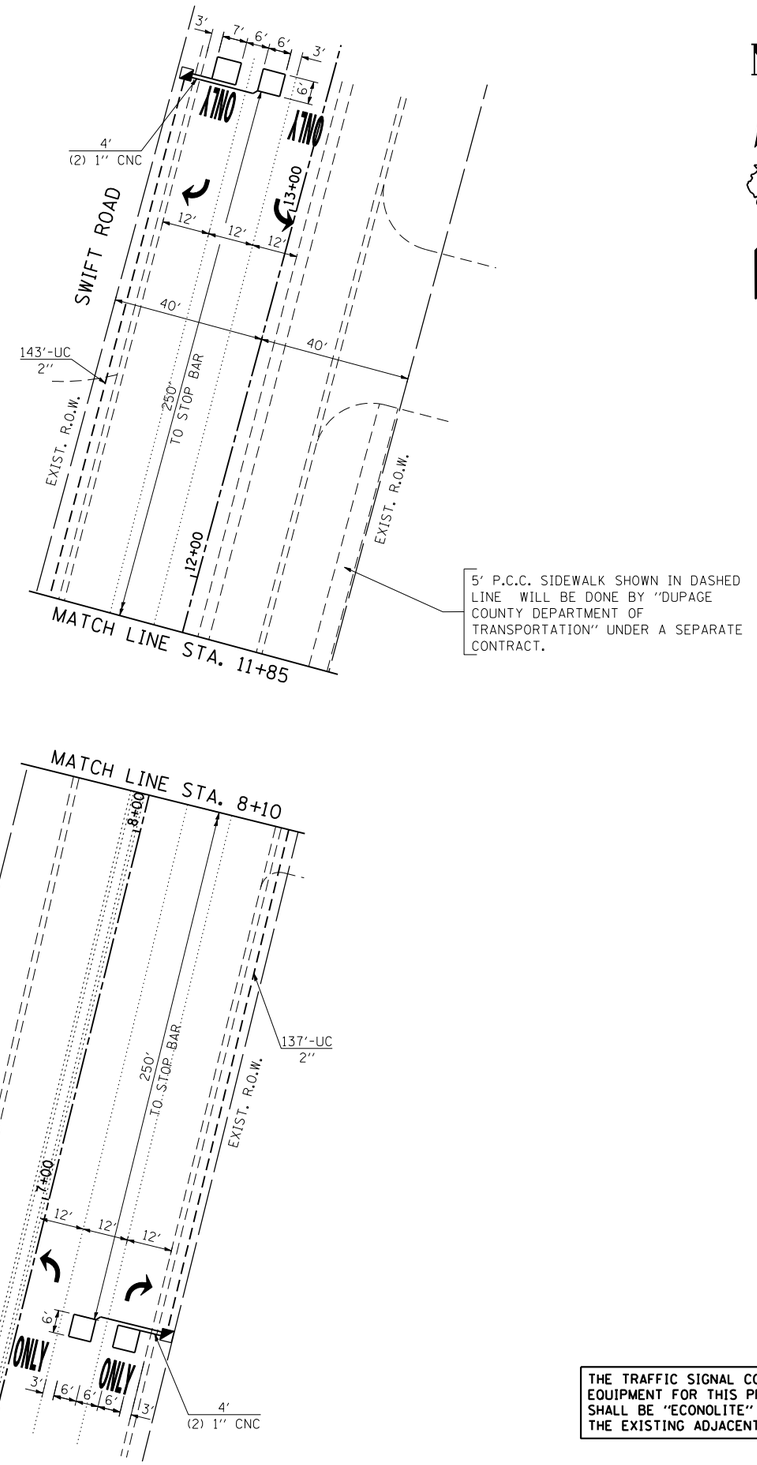
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

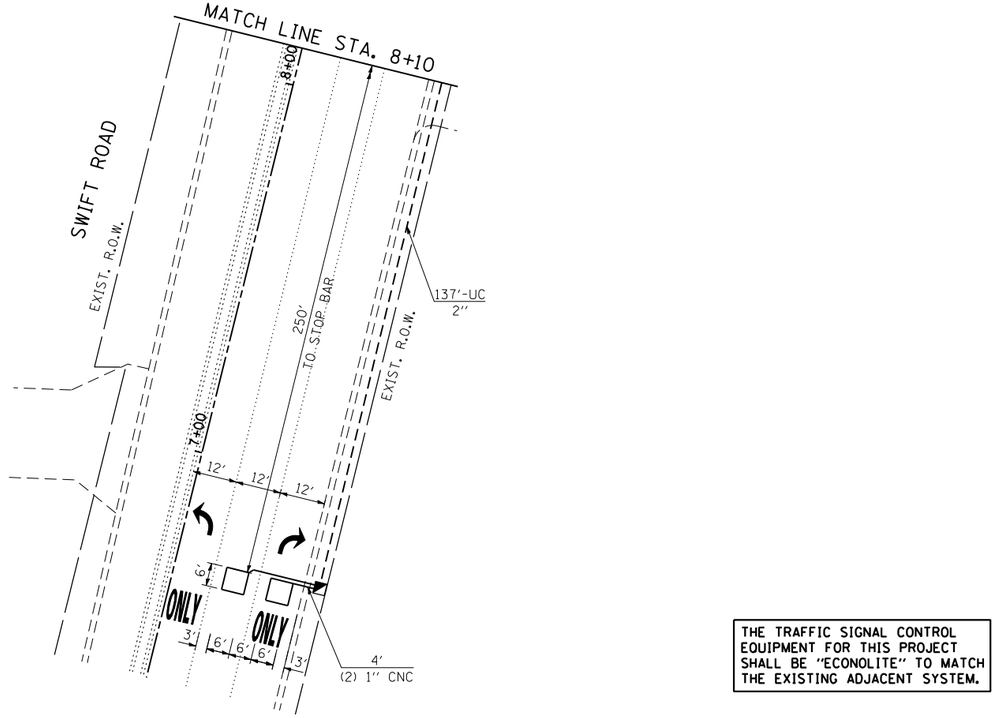
TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD
(SHEET 1 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	21
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		







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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD
(SHEET 2 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	22
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

ILLINOIS ROUTE 64

(NORTH AVENUE)

SWIFT ROAD

MATCH LINE STA. 11+85

MATCH LINE STA. 103+55

MATCH LINE STA. 109+50

MATCH LINE STA. 8+10

EXIST. R.O.W.

FUTURE SIDEWALK (BY OTHERS)

THERMOPLASTIC PAVEMENT MARKING - LINE 12" = 131 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 8" = 197 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 24" = 47 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 6" = 178 FT.

DETECTABLE WARNING = 34 SQ. FT.

PORTLAND CEMENT CONCRETE SIDEWALK 5" = 210 SQ. FT.

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 = 27 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 6" = 252 FT.

COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.06= 5 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 24" = 49 FT.

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS = 36.4 SQ. FT.

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS = 36.4 SQ. FT.

DETECTABLE WARNING = 16 SQ. FT.

PORTLAND CEMENT CONCRETE SIDEWALK 5" = 287 SQ. FT.

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06 = 75 FT.

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS = 36.4 SQ. FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 24" = 20 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 6" = 50 FT.

PORTLAND CEMENT CONCRETE SIDEWALK 5" = 180 SQ. FT.

DETECTABLE WARNING = 12 SQ. FT.

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 = 16 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 12" = 60 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 8" = 137 FT.

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS = 36.4 SQ. FT.

8' BIKE TRAIL SHOWN IN DASHED LINE WILL BE DONE BY "DUPAGE COUNTY FOREST PRESERVE DISTRICT" UNDER A SEPARATE CONTRACT. (PERMIT APRIL 2013)

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS = 72.8 SQ. FT.

5' P.C.C. SIDEWALK SHOWN IN DASHED LINE WILL BE DONE BY "DUPAGE COUNTY DEPARTMENT OF TRANSPORTATION" UNDER A SEPARATE CONTRACT.

THERMOPLASTIC PAVEMENT MARKING - LINE 6" = 50 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 24" = 18 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 8" = 137 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 12" = 67 FT.

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06 = 50 FT.

PORTLAND CEMENT CONCRETE SIDEWALK 5" = 284 SQ. FT.

DETECTABLE WARNING = 16 SQ. FT.

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS = 36.4 SQ. FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 24" = 48 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 12" = 94 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 8" = 253 FT.

THERMOPLASTIC PAVEMENT MARKING - LINE 24" = 40 FT.

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS = 72.8 SQ. FT.

ONLY

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

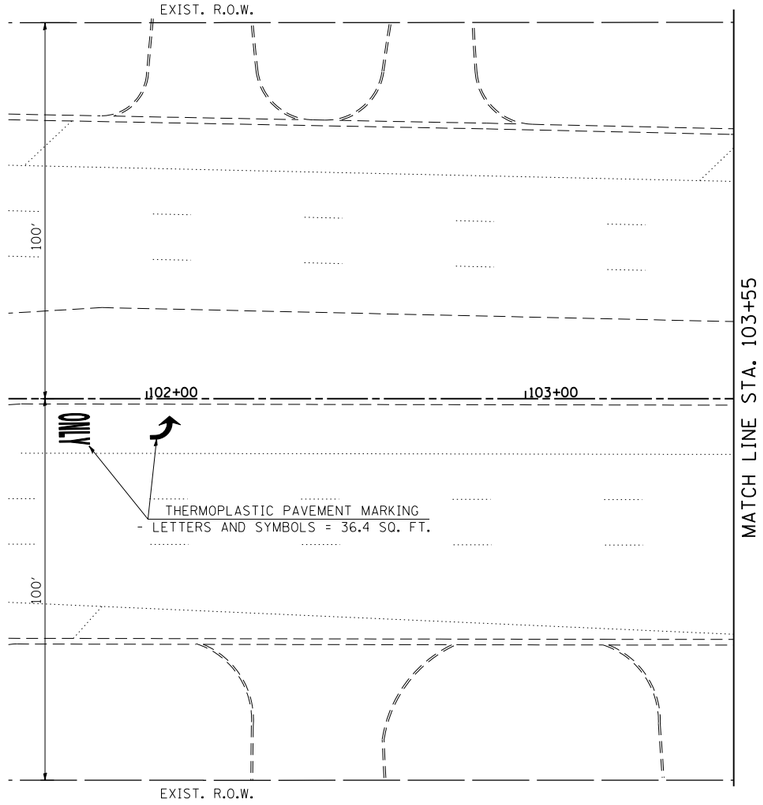
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

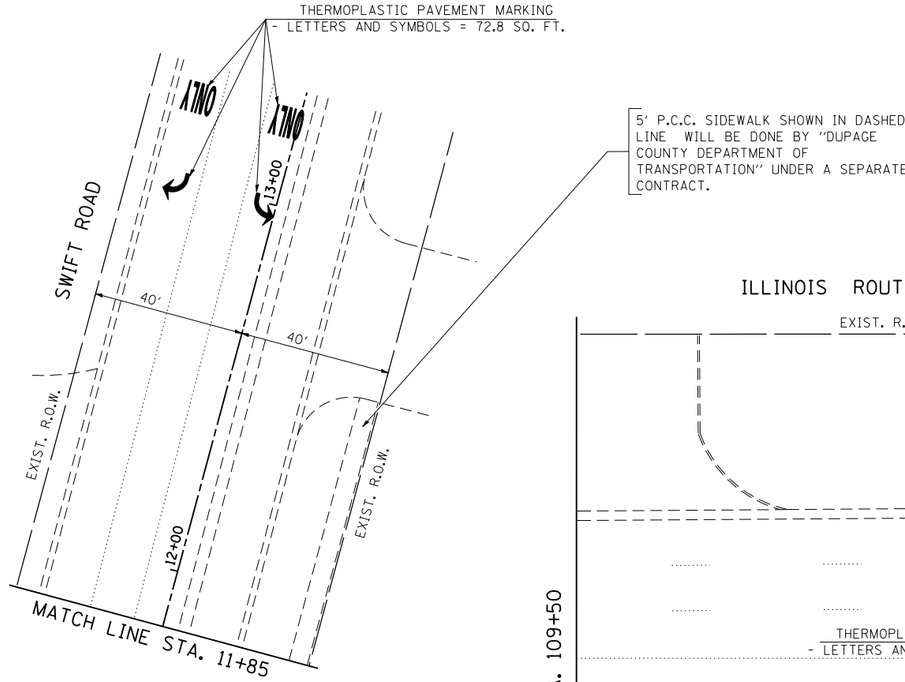
SIDEWALK AND PAVEMENT MARKING PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD
(SHEET 1 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

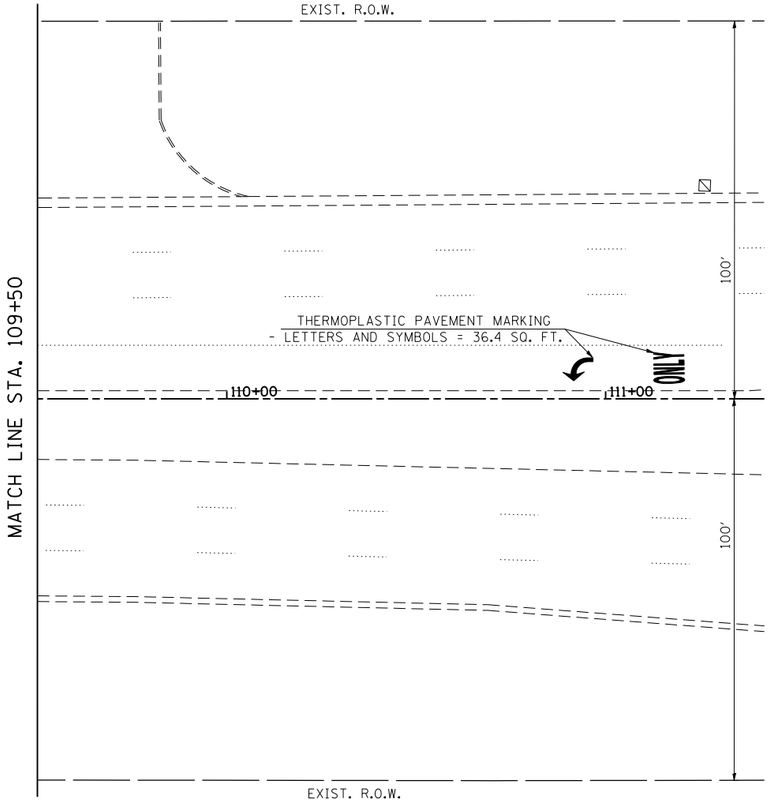
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	23
		CONTRACT NO. 60T80		

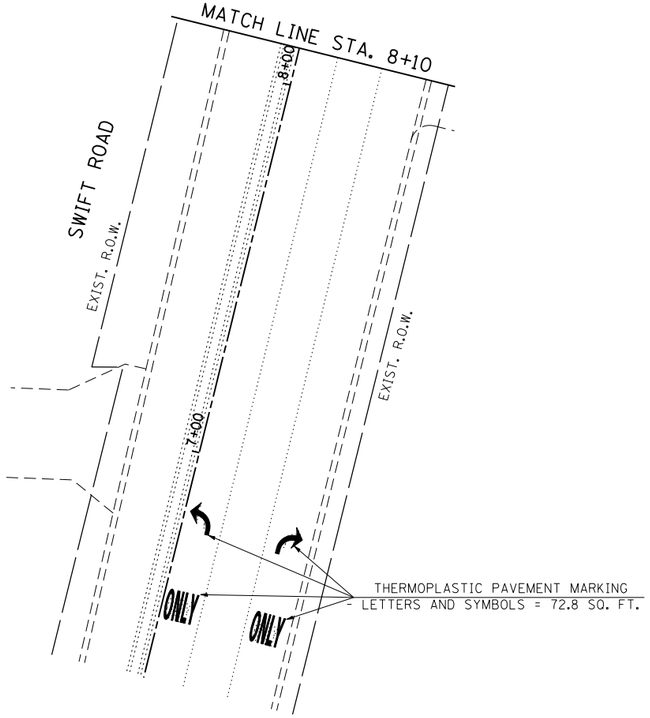
FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT



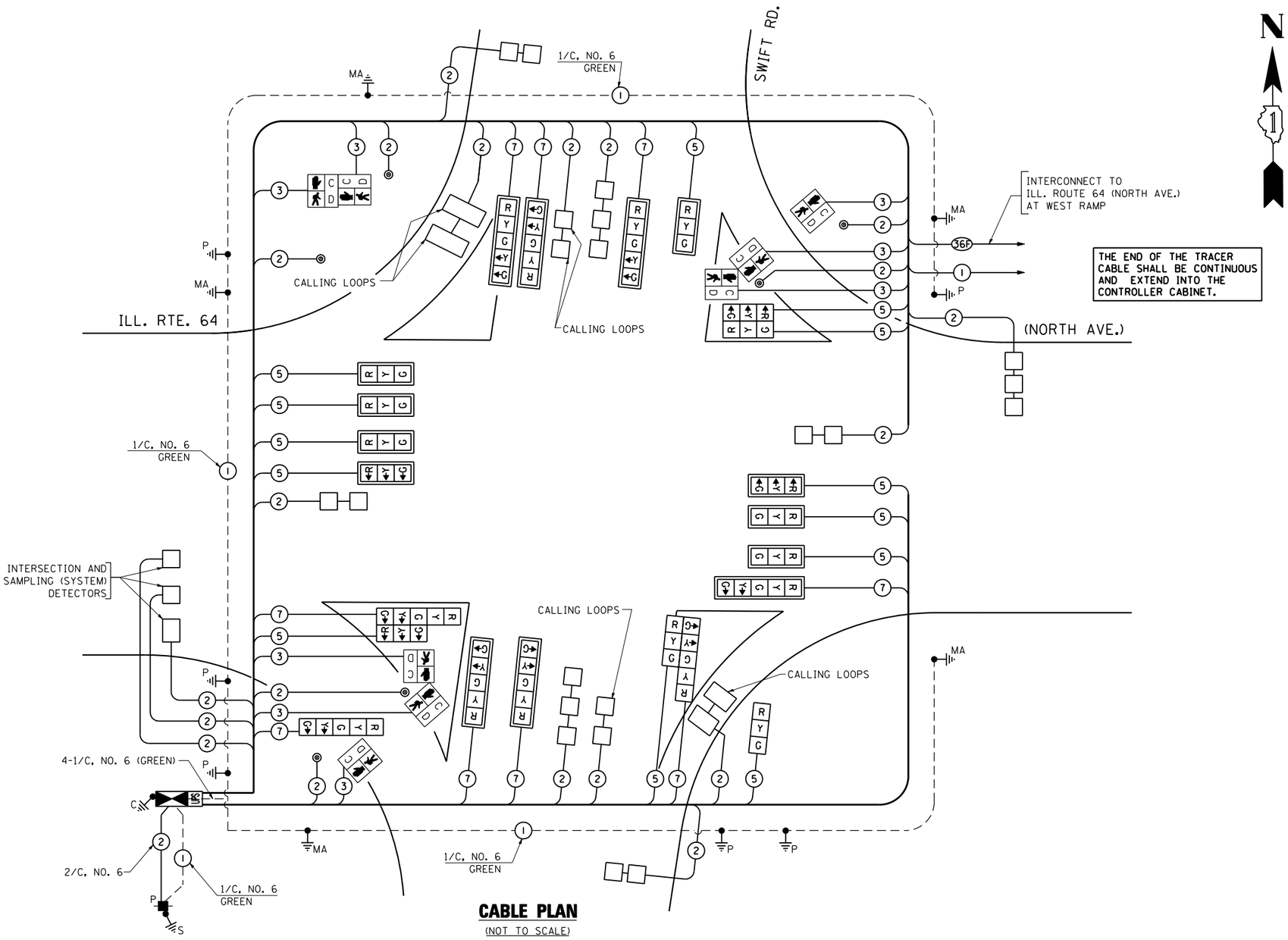


5' P.C.C. SIDEWALK SHOWN IN DASHED LINE WILL BE DONE BY "DUPAGE COUNTY DEPARTMENT OF TRANSPORTATION" UNDER A SEPARATE CONTRACT.





FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SIDEWALK AND PAVEMENT MARKING PLAN ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD (SHEET 2 OF 2)**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - EA, MG	REVISED -			307	2012-029-TS	DuPAGE	55	24
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -					CONTRACT NO. 60T80		
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



CABLE PLAN

(NOT TO SCALE)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS X	WATTAGE INCAND.	WATTAGE LED	X %OPERATION	
SIGNAL (RED)	22		17	0.50	187
(YELLOW)	22		25	0.25	137.5
(GREEN)	22		15	0.25	82.5
ARROW	18		12	0.10	21.6
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	728.6

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COMMONWEALTH EDISON

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD

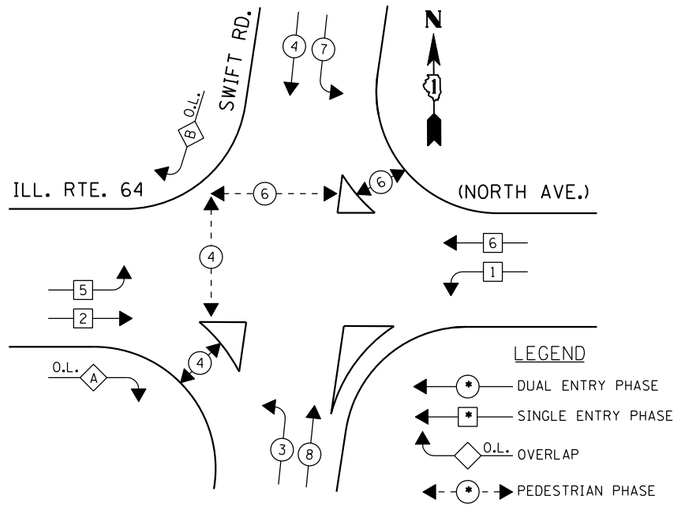
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	25
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
961	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
78	SQ FT	DETECTABLE WARNINGS
14.6	SQ YD	PAVEMENT REMOVAL
230	FOOT	COMBINATION CURB AND GUTTER REMOVAL
51	SQ YD	CLASS D PATCHES, TYPE IV, 17 INCH
51	SQ YD	PROTECTIVE COAT
125	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06
43	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
5	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.06
42	SQ FT	SIGN PANEL - TYPE 1
25	SQ FT	SIGN PANEL - TYPE 2
546	SQ FT	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
530	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
724	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 8"
352	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
222	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
198	SQ FT	PAVEMENT MARKING REMOVAL
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1299	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
80	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2½" DIA.
182	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
631	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
8	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
1	EACH	TRANSCEIVER-FIBER OPTIC
1369	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1842	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3815	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1928	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
4193	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
129	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1078	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 36 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 42 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 44 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 54 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 64 FT.
20	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
52	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
21	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
14	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
14	EACH	INDUCTIVE LOOP DETECTOR
1004	FOOT	DETECTOR LOOP, TYPE I
6	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
12	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING DOUBLE HANDHOLE
5	EACH	REMOVE EXISTING CONCRETE FOUNDATION
766	SQ FT	CONCRETE MEDIAN SURFACE REMOVAL
1	EACH	FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	PEDESTRIAN PUSHBUTTON POST, TYPE A
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

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

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

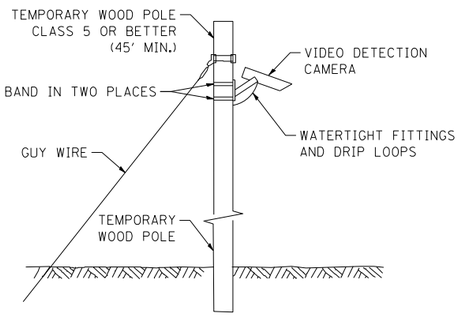
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM
AND SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 64 (NORTH AVENUE) AT SWIFT ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	26
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT



TEMPORARY VIDEO DETECTION MOUNTING DETAIL

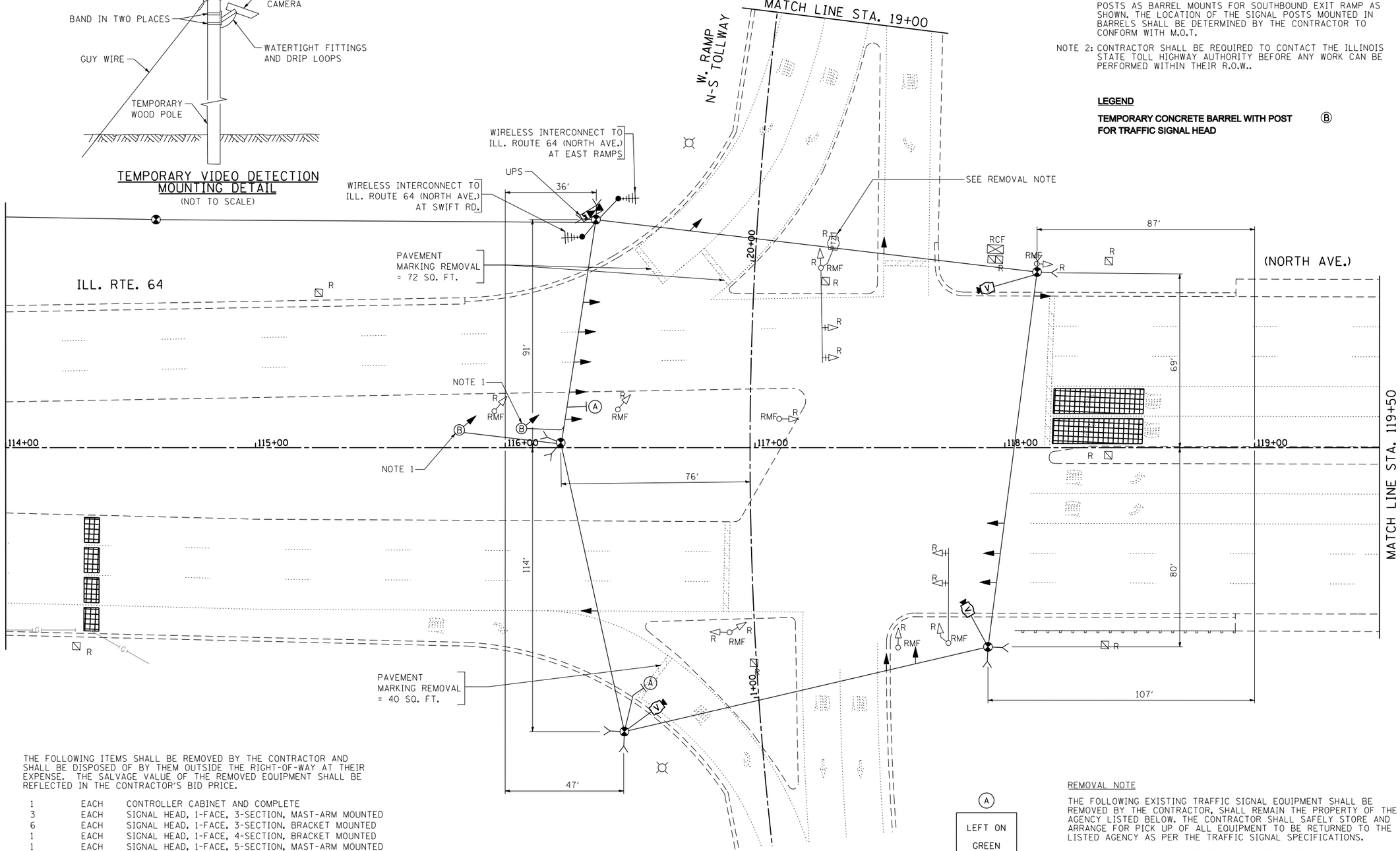
(NOT TO SCALE)

NOTE 1: INSTALL 3-SECTION BRACKET MOUNT SIGNAL HEADS TO 14 FEET POSTS AS BARREL MOUNTS FOR SOUTHBOUND EXIT RAMP AS SHOWN. THE LOCATION OF THE SIGNAL POSTS MOUNTED IN BARRELS SHALL BE DETERMINED BY THE CONTRACTOR TO CONFORM WITH M.O.T.

NOTE 2: CONTRACTOR SHALL BE REQUIRED TO CONTACT THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY BEFORE ANY WORK CAN BE PERFORMED WITHIN THEIR R.O.W..

LEGEND

TEMPORARY CONCRETE BARREL WITH POST FOR TRAFFIC SIGNAL HEAD Ⓑ



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 CONTRACTOR'S BID PRICE.

1	EACH	CONTROLLER CABINET AND COMPLETE
3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE
6	EACH	TRAFFIC SIGNAL POST
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
1	EACH	SERVICE INSTALLATION

Ⓐ

LEFT ON GREEN ARROW ONLY

R10-5, 30" X 36"
(2 REQUIRED)

REMOVAL NOTE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTACT INFORMATION:
ILLINOIS DEPARTMENT OF TRANSPORTATION
ENGINEERING DEPARTMENT

1 EACH SURVELLIANCE CAMERA

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

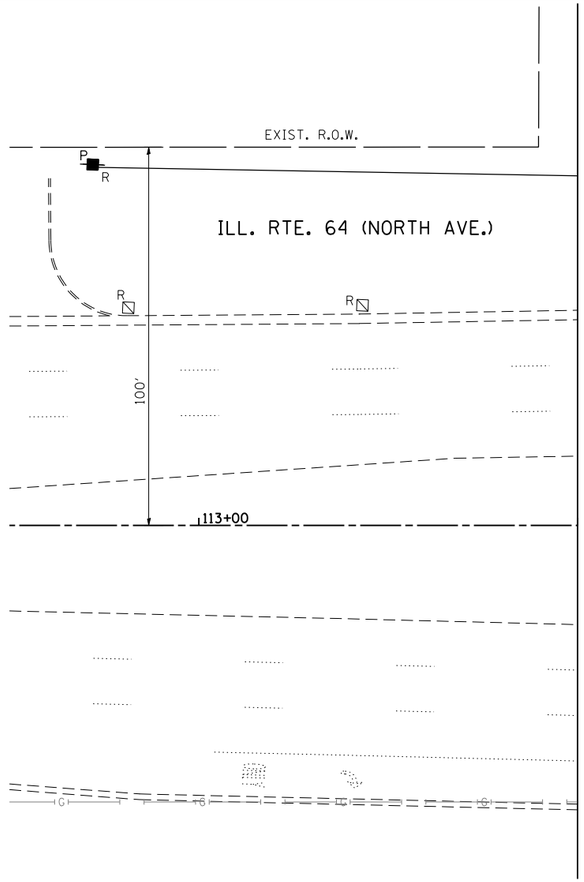
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

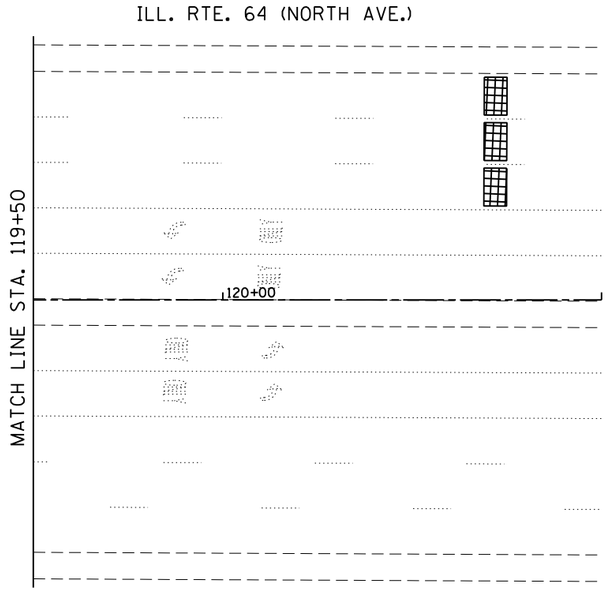
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT WEST RAMPS
(SHEET 1 OF 2)

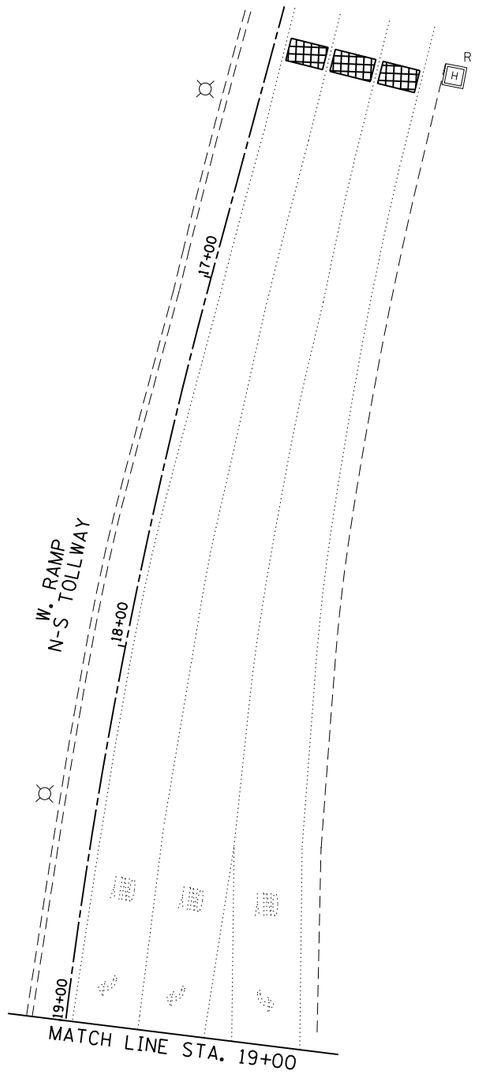
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

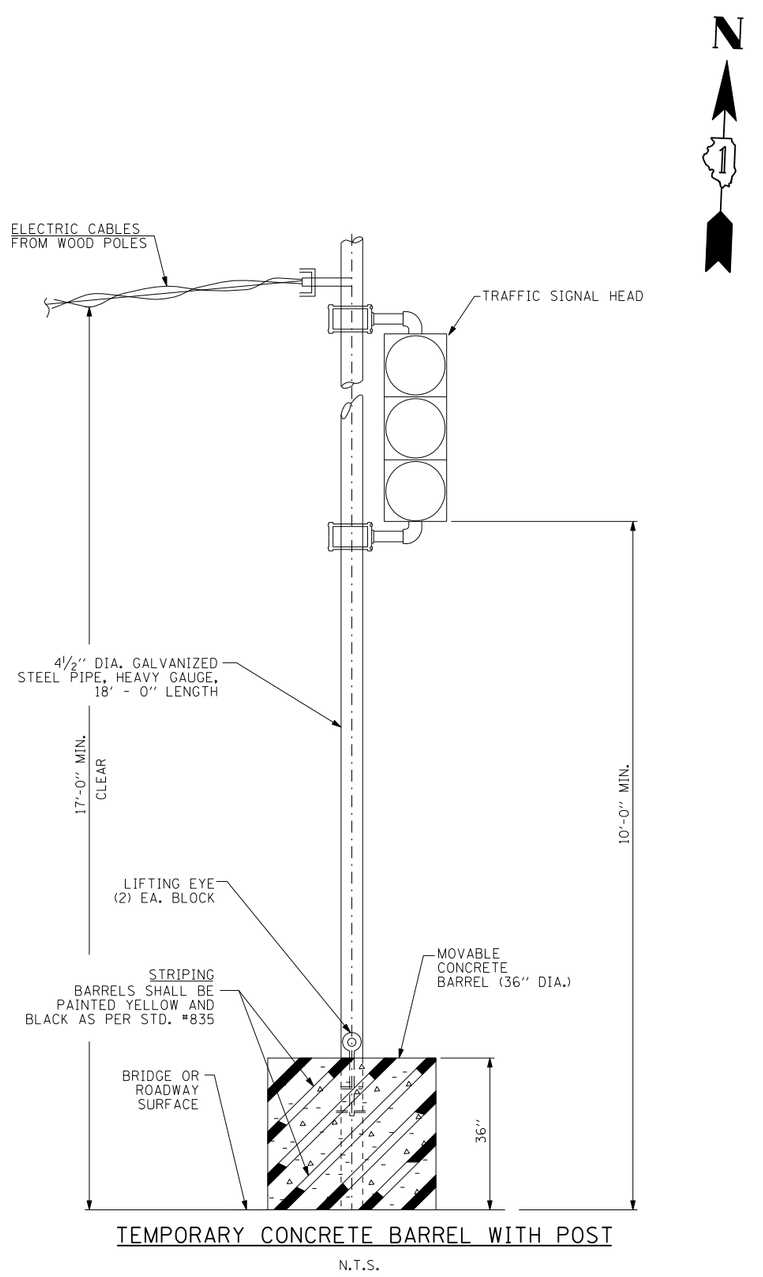
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	27
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT









TEMPORARY CONCRETE BARREL WITH POST

N.T.S.

N

NOTE 1: CONTRACTOR SHALL BE REQUIRED TO CONTACT THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY BEFORE ANY WORK CAN BE PERFORMED WITHIN THEIR R.O.W..

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

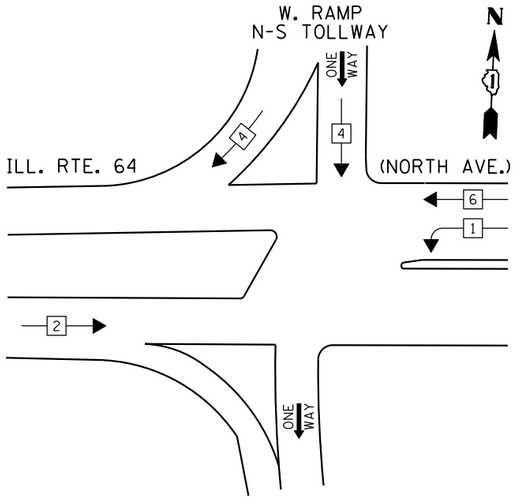
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT WEST RAMPS
(SHEET 2 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	28
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

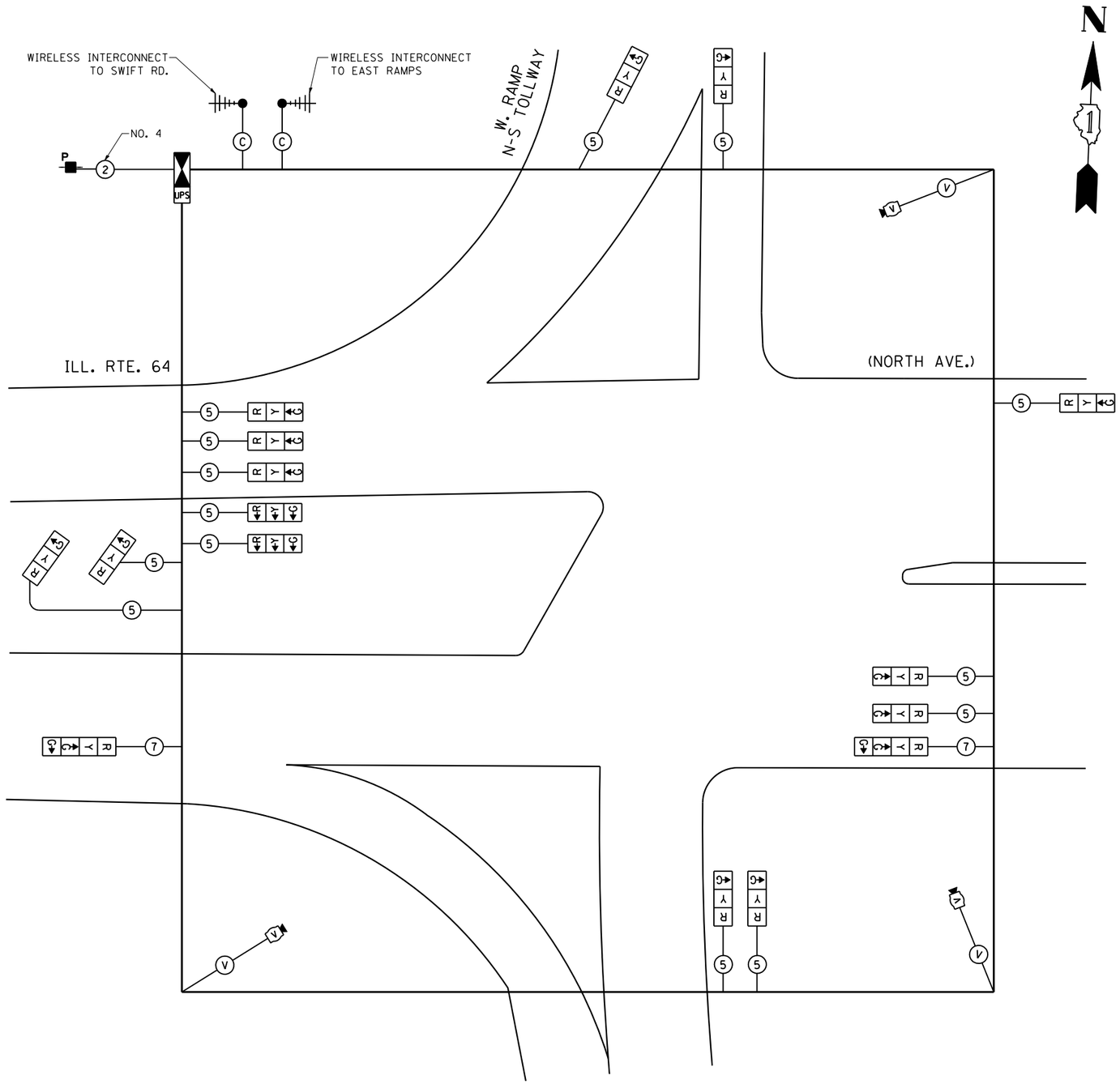
CONTROLLER SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

(NOT TO SCALE)

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

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

TYPE	NO LAMPS X	WATTAGE INCAND.	WATTAGE LED	X OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.50	136
(YELLOW)	16		25	0.25	100
(GREEN)	18		15	0.25	67.5
ARROW			12	0.10	
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	553.5

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COMMONWEALTH EDISON

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

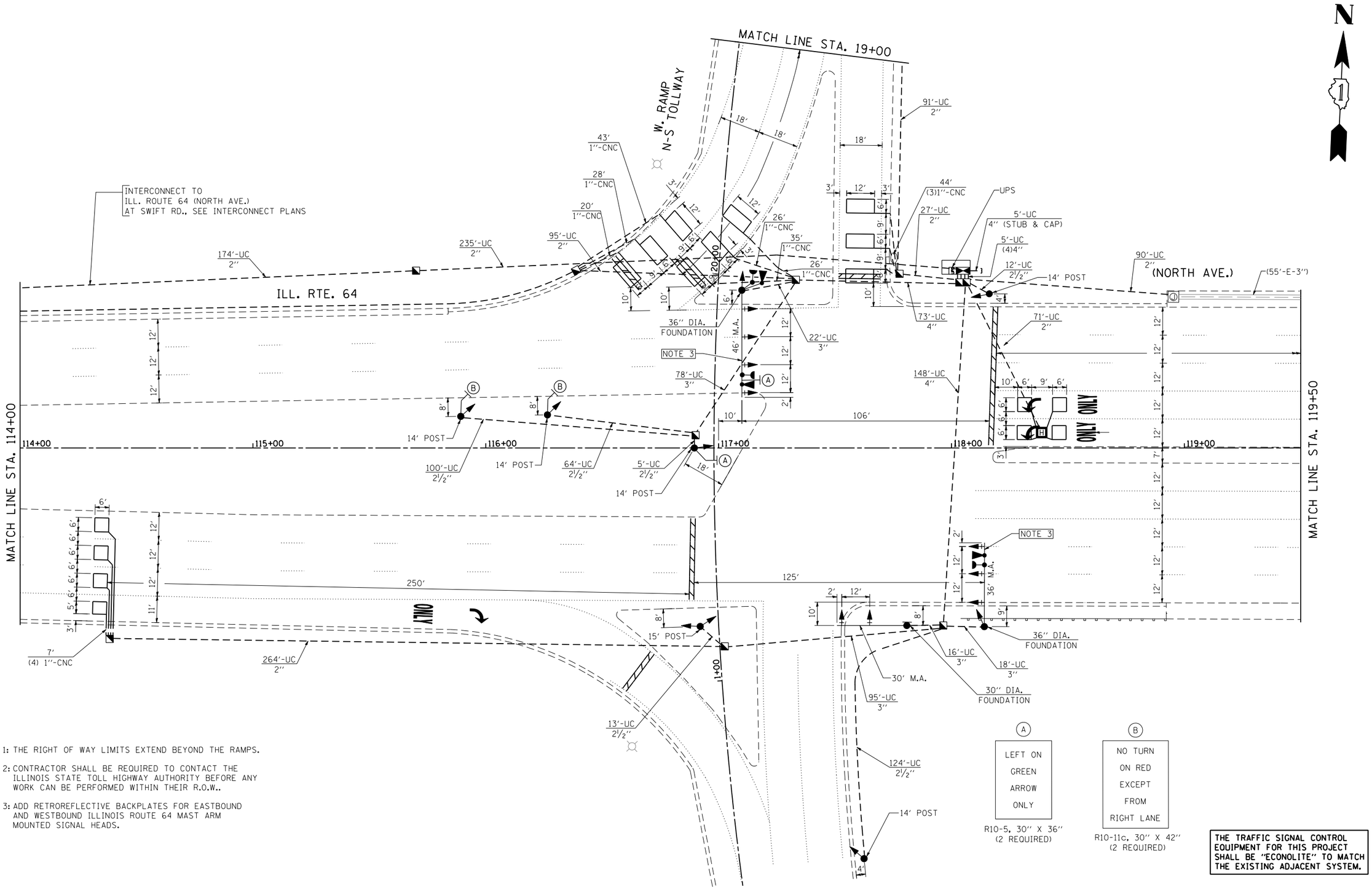
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND
TEMPORARY PHASE DESIGNATION DIAGRAM
ILLINOIS ROUTE 64 (NORTH AVENUE) AT WEST RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	29
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT



NOTE 1: THE RIGHT OF WAY LIMITS EXTEND BEYOND THE RAMPS.

NOTE 2: CONTRACTOR SHALL BE REQUIRED TO CONTACT THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY BEFORE ANY WORK CAN BE PERFORMED WITHIN THEIR R.O.W..

NOTE 3: ADD RETROREFLECTIVE BACKPLATES FOR EASTBOUND AND WESTBOUND ILLINOIS ROUTE 64 MAST ARM MOUNTED SIGNAL HEADS.

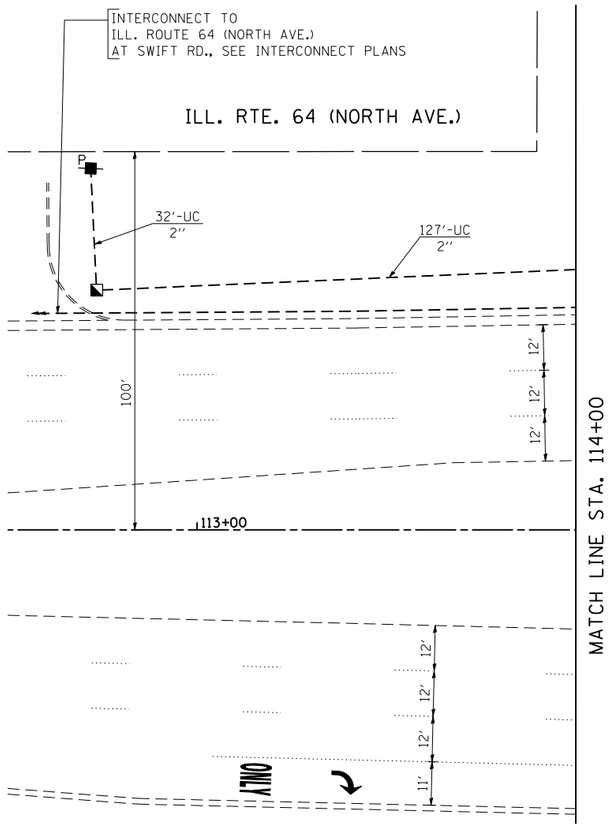
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

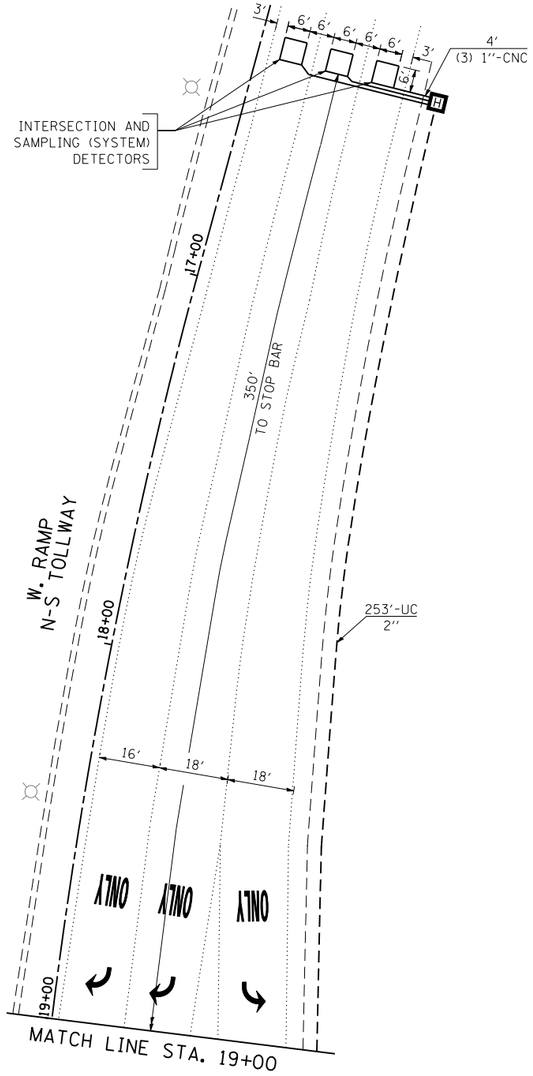
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

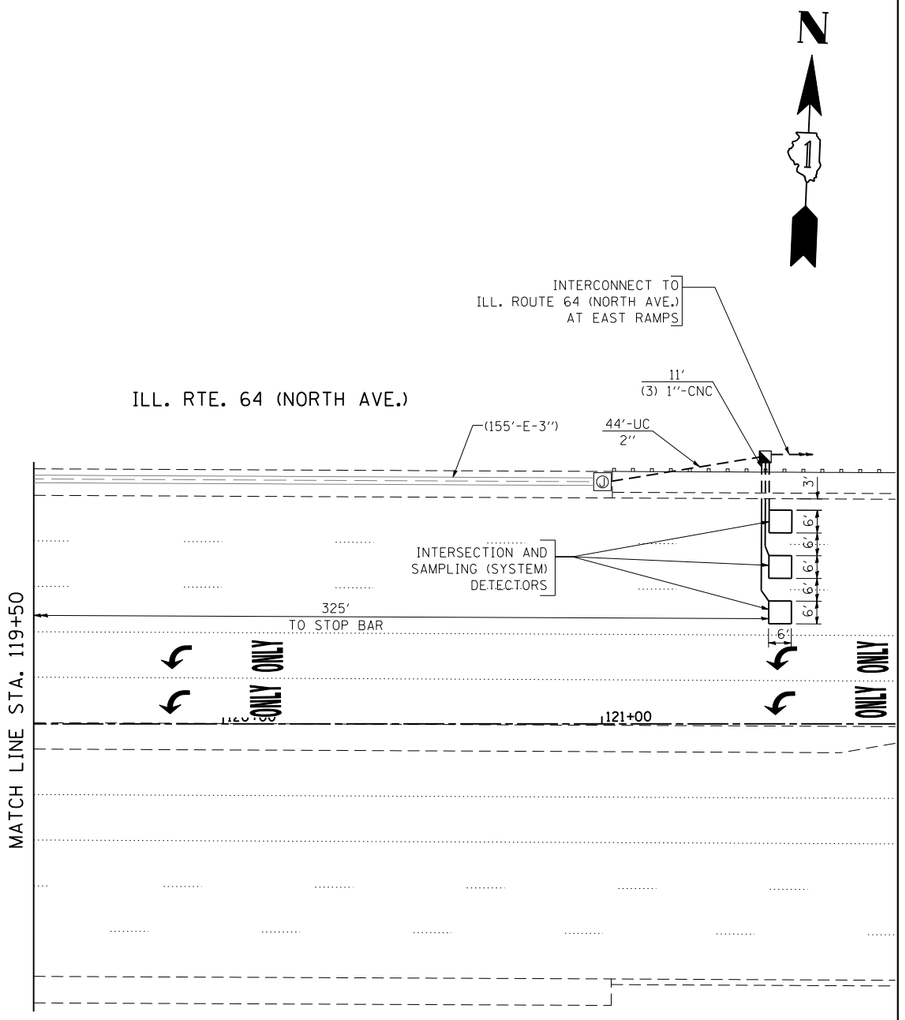
TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT WEST RAMPS
(SHEET 1 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	30
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		







NOTE 1: THE RIGHT OF WAY LIMITS EXTEND BEYOND THE RAMPS.

NOTE 2: CONTRACTOR SHALL BE REQUIRED TO CONTACT THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY BEFORE ANY WORK CAN BE PERFORMED WITHIN THEIR R.O.W..

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

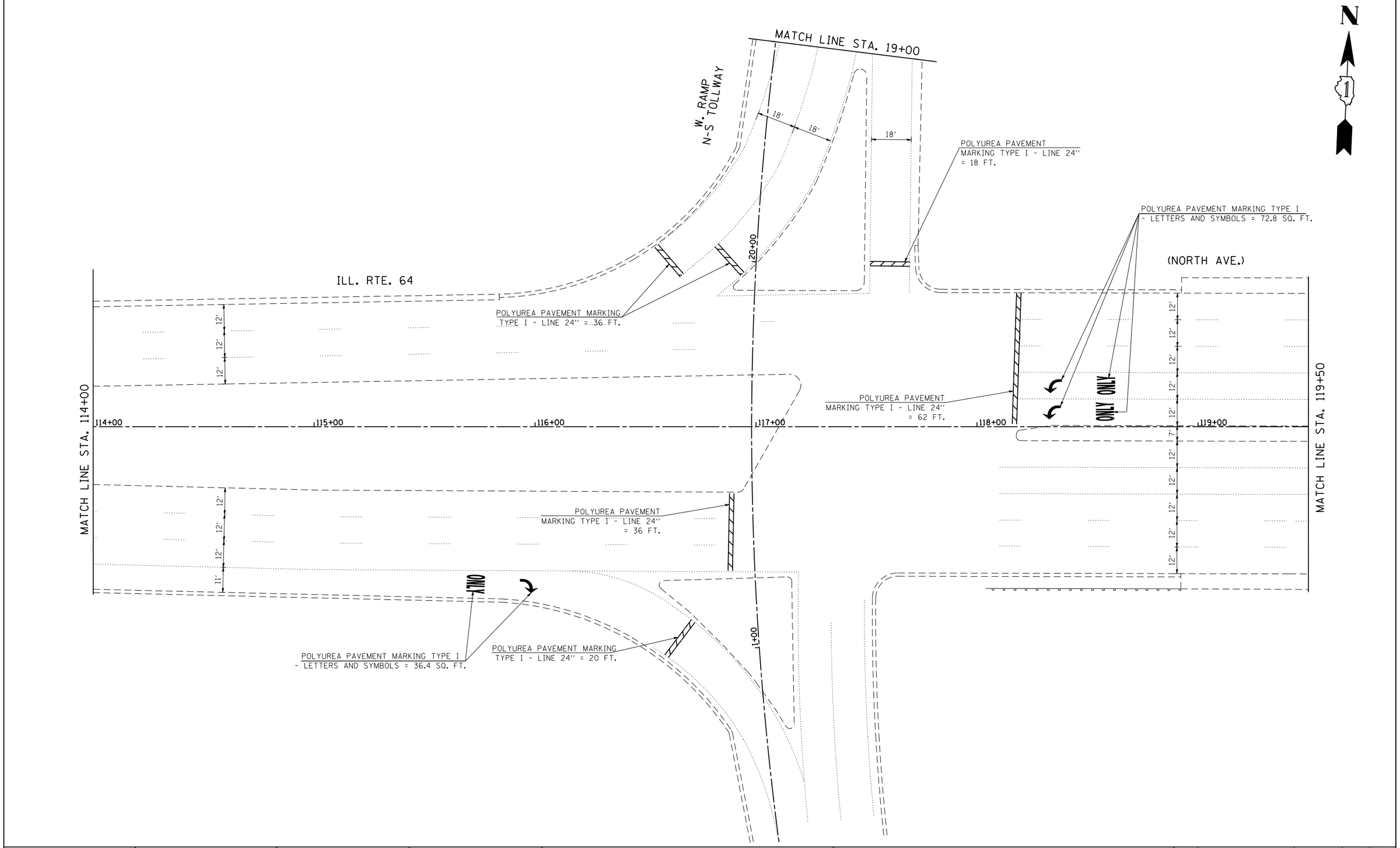
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT WEST RAMPS
(SHEET 2 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	31
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT



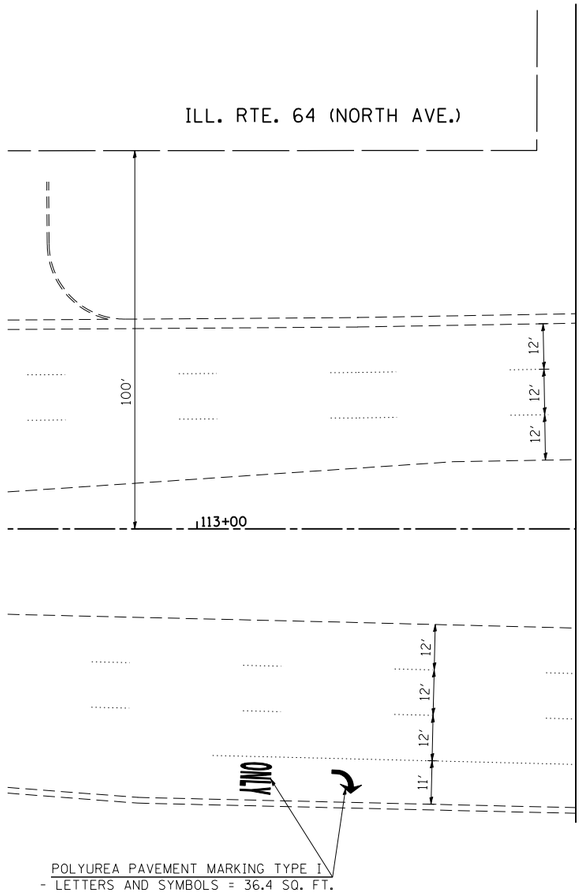
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

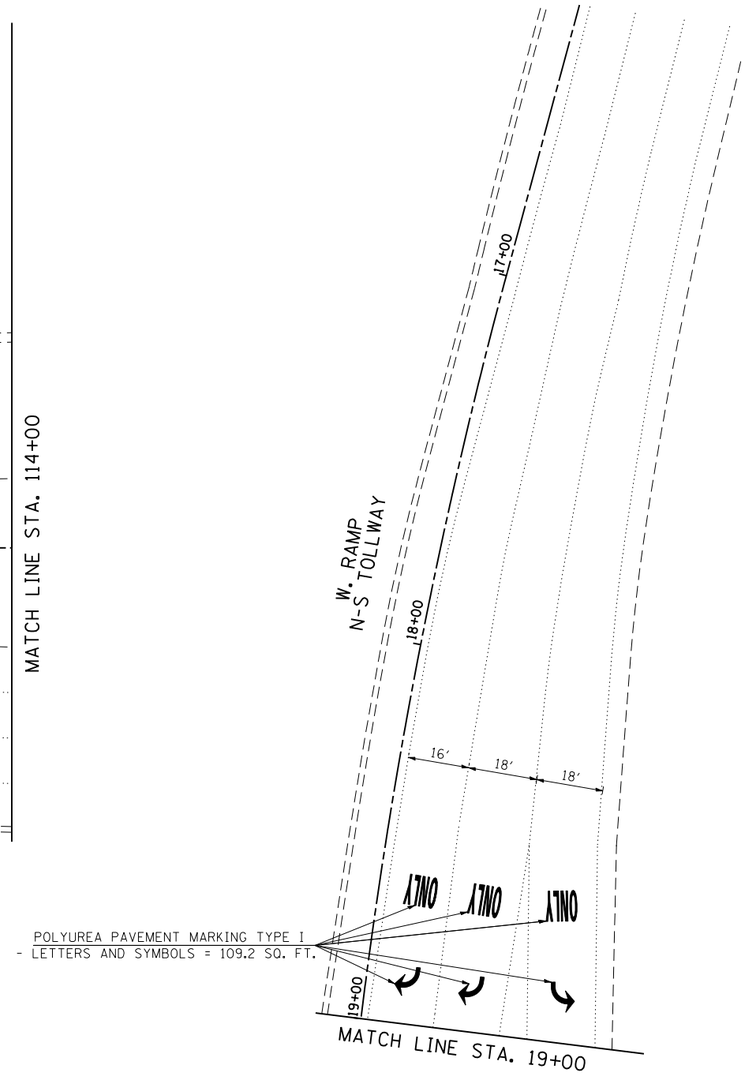
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

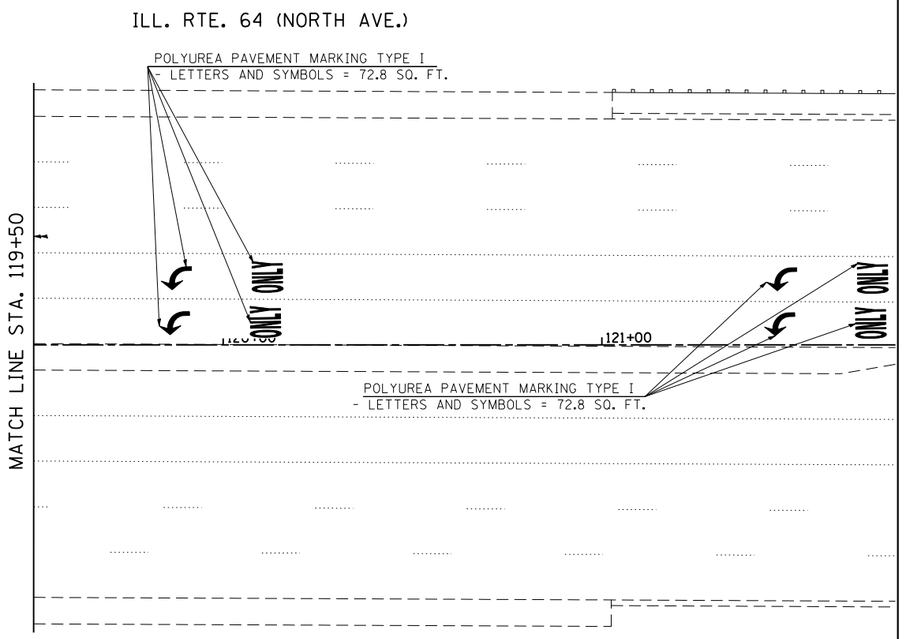
PAVEMENT MARKING PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT WEST RAMPS
(SHEET 1 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	32
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		







FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

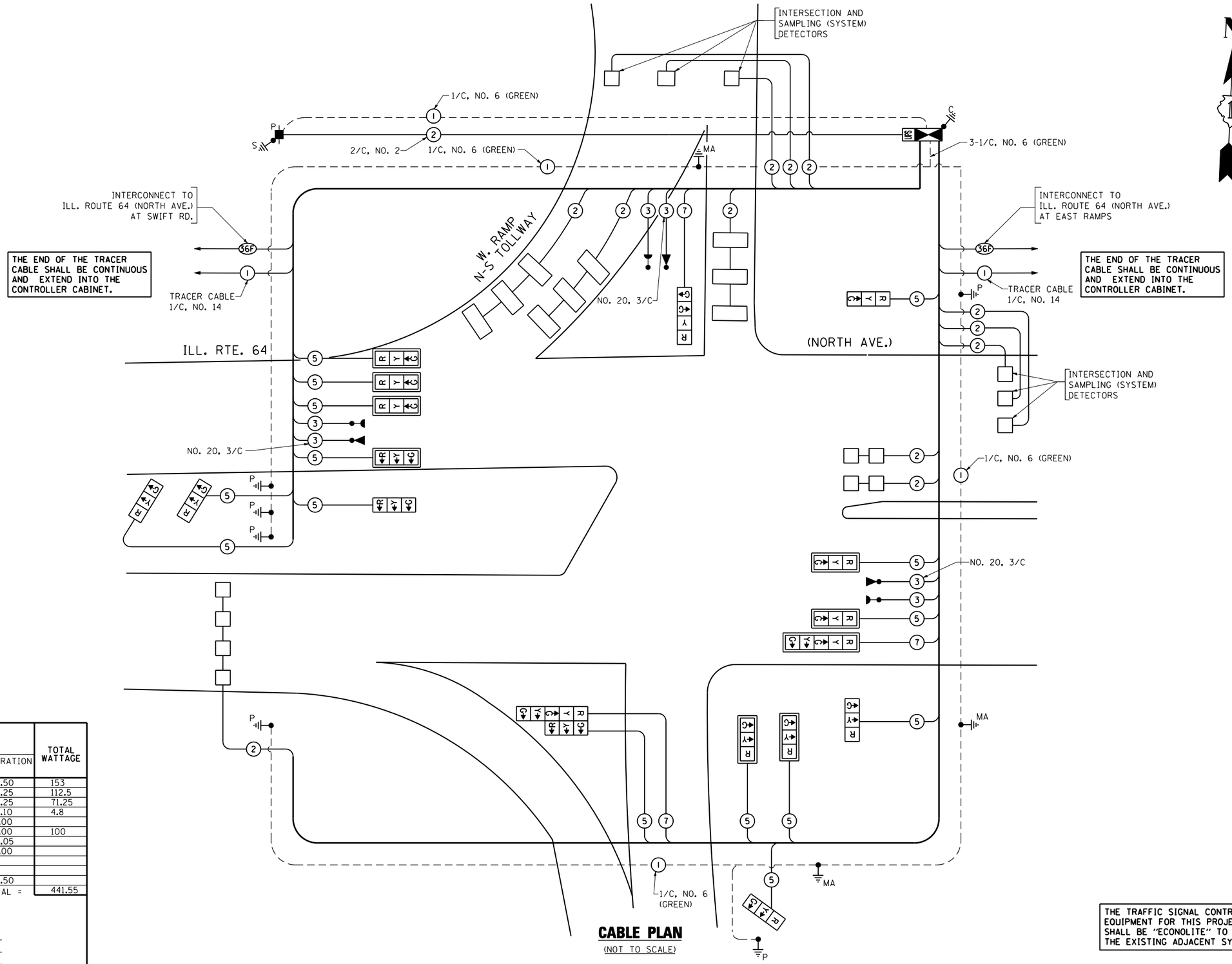
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT WEST RAMPS
(SHEET 2 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	33
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT



CABLE PLAN

(NOT TO SCALE)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS X	WATTAGE INCAND.	WATTAGE LED	X OPERATION	
SIGNAL (RED)	18		17	0.50	153
(YELLOW)	18		25	0.25	112.5
(GREEN)	19		15	0.25	71.25
ARROW	4		12	0.10	4.8
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	441.55

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COMMONWEALTH EDISON

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT WEST RAMPS

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

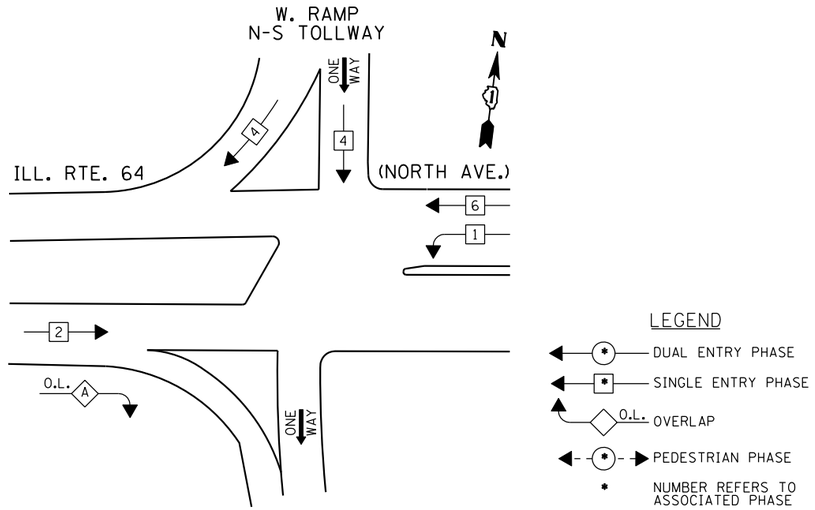
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	34
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

	QUANTITY	UNIT	ITEM
	32.5	SQ FT	SIGN PANEL - TYPE 1
	12.5	SQ FT	SIGN PANEL - TYPE 2
	400	SQ FT	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS
	176	FOOT	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"
	112	SQ FT	PAVEMENT MARKING REMOVAL
	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
	1503	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
	318	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2½" DIA.
	229	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
	246	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
	10	EACH	HANDHOLE
	2	EACH	HEAVY-DUTY HANDHOLE
	1	EACH	DOUBLE HANDHOLE
	1	EACH	TRANSCEIVER-FIBER OPTIC
	585	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
	3414	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
	754	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
	3490	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
	601	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2 2C
	1415	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
	5	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 30 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 36 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 46 FT.
	24	FOOT	CONCRETE FOUNDATION, TYPE A
	4	FOOT	CONCRETE FOUNDATION, TYPE C
	13.5	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
	24	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
	8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
	6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
	1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
	2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
	12	EACH	INDUCTIVE LOOP DETECTOR
	885	FOOT	DETECTOR LOOP, TYPE I
•	3	EACH	LIGHT DETECTOR
•	1	EACH	LIGHT DETECTOR AMPLIFIER
	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
	9	EACH	REMOVE EXISTING HANDHOLE
	1	EACH	REMOVE EXISTING DOUBLE HANDHOLE
	9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
•	585	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
	1	EACH	FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL
	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
	7	EACH	TRAFFIC SIGNAL BACKPLATE, SPECIAL
	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

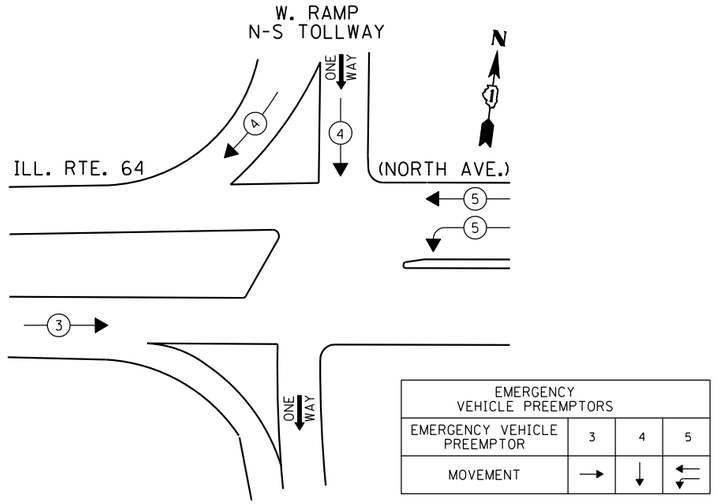
• 100% COST TO VILLAGE OF LOMBARD

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	4



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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 64 (NORTH AVENUE) AT WEST RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	35
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

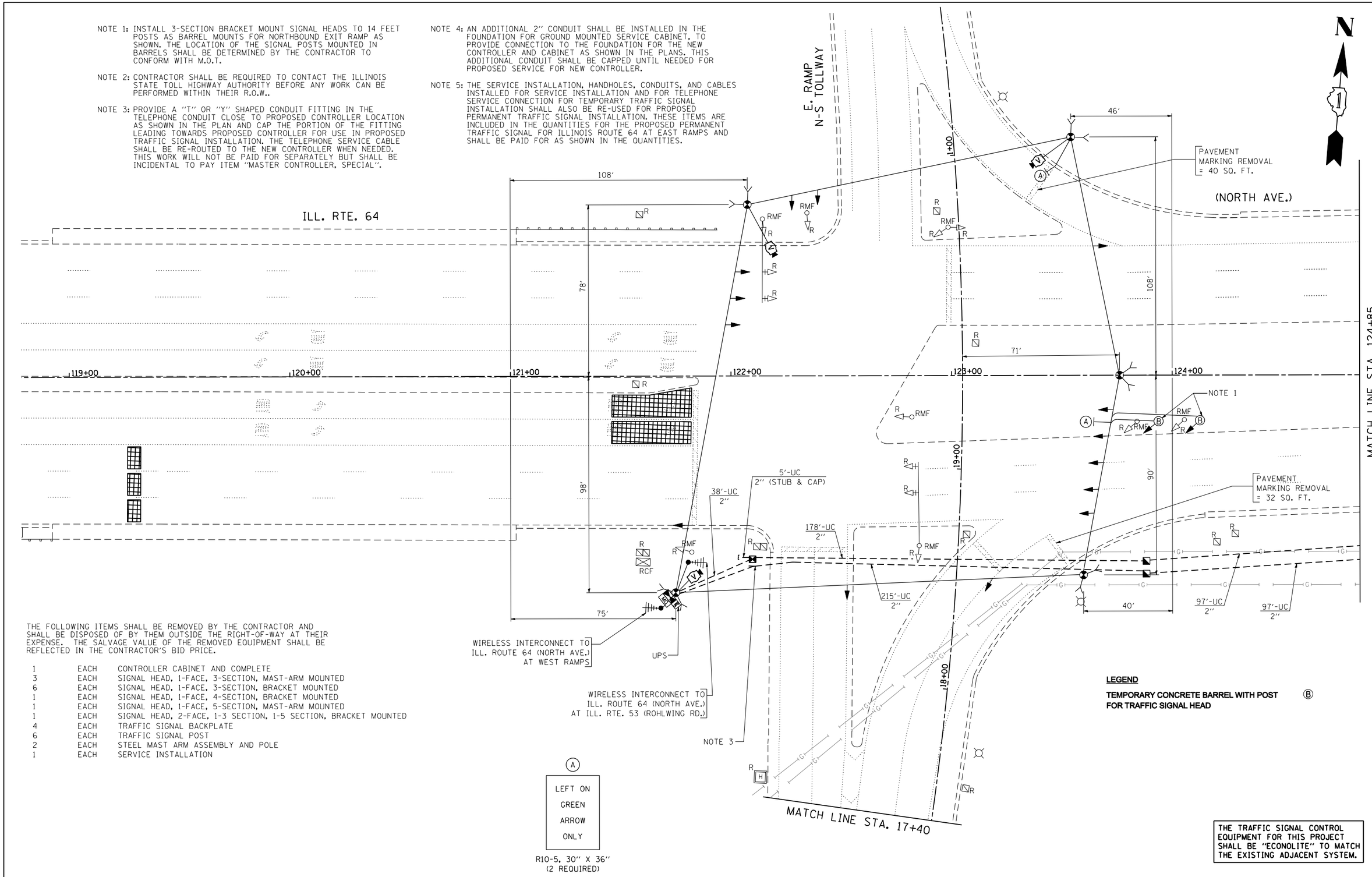
NOTE 1: INSTALL 3-SECTION BRACKET MOUNT SIGNAL HEADS TO 14 FEET POSTS AS BARREL MOUNTS FOR NORTHBOUND EXIT RAMP AS SHOWN. THE LOCATION OF THE SIGNAL POSTS MOUNTED IN BARRELS SHALL BE DETERMINED BY THE CONTRACTOR TO CONFORM WITH M.O.T.

NOTE 2: CONTRACTOR SHALL BE REQUIRED TO CONTACT THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY BEFORE ANY WORK CAN BE PERFORMED WITHIN THEIR R.O.W..

NOTE 3: PROVIDE A "T" OR "Y" SHAPED CONDUIT FITTING IN THE TELEPHONE CONDUIT CLOSE TO PROPOSED CONTROLLER LOCATION AS SHOWN IN THE PLAN AND CAP THE PORTION OF THE FITTING LEADING TOWARDS PROPOSED CONTROLLER FOR USE IN PROPOSED TRAFFIC SIGNAL INSTALLATION. THE TELEPHONE SERVICE CABLE SHALL BE RE-ROUTED TO THE NEW CONTROLLER WHEN NEEDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO PAY ITEM "MASTER CONTROLLER, SPECIAL".

NOTE 4: AN ADDITIONAL 2" CONDUIT SHALL BE INSTALLED IN THE FOUNDATION FOR GROUND MOUNTED SERVICE CABINET, TO PROVIDE CONNECTION TO THE FOUNDATION FOR THE NEW CONTROLLER AND CABINET AS SHOWN IN THE PLANS. THIS ADDITIONAL CONDUIT SHALL BE CAPPED UNTIL NEEDED FOR PROPOSED SERVICE FOR NEW CONTROLLER.

NOTE 5: THE SERVICE INSTALLATION, HANDHOLES, CONDUITS, AND CABLES INSTALLED FOR SERVICE INSTALLATION AND FOR TELEPHONE SERVICE CONNECTION FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL ALSO BE RE-USED FOR PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION. THESE ITEMS ARE INCLUDED IN THE QUANTITIES FOR THE PROPOSED PERMANENT TRAFFIC SIGNAL FOR ILLINOIS ROUTE 64 AT EAST RAMPS AND SHALL BE PAID FOR AS SHOWN IN THE QUANTITIES.



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 CONTRACTOR'S BID PRICE.

1	EACH	CONTROLLER CABINET AND COMPLETE
3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE
6	EACH	TRAFFIC SIGNAL POST
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
1	EACH	SERVICE INSTALLATION

(A)

LEFT ON GREEN ARROW ONLY

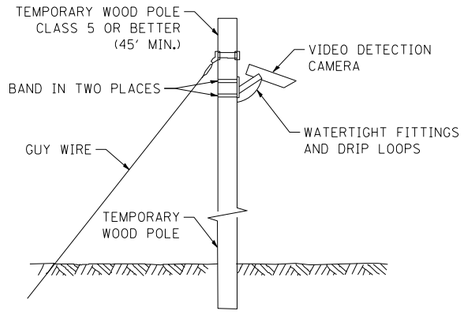
R10-5, 30" X 36" (2 REQUIRED)

LEGEND

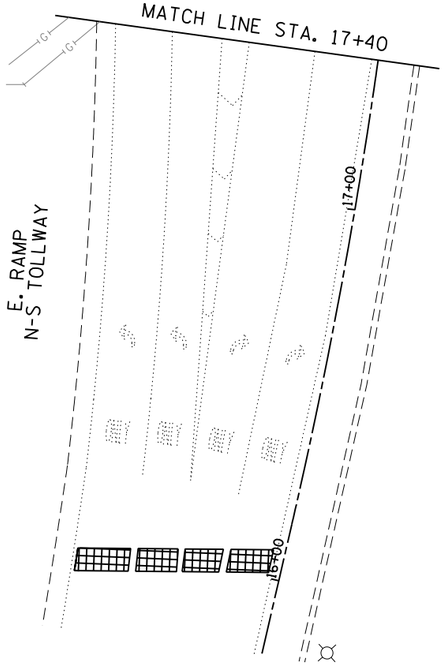
TEMPORARY CONCRETE BARREL WITH POST FOR TRAFFIC SIGNAL HEAD (B)

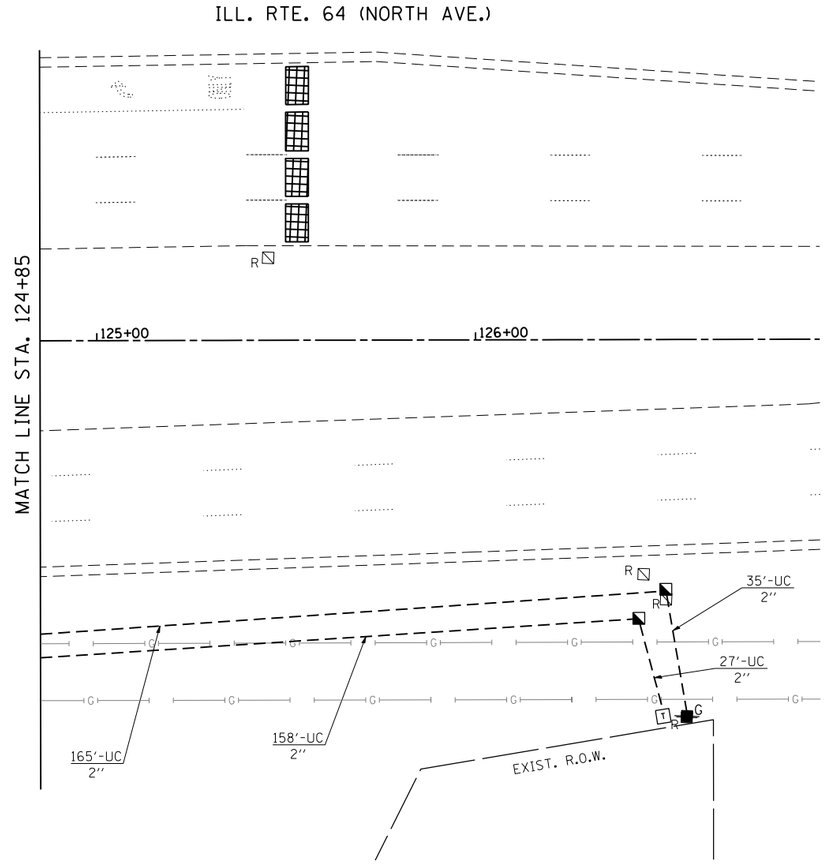
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

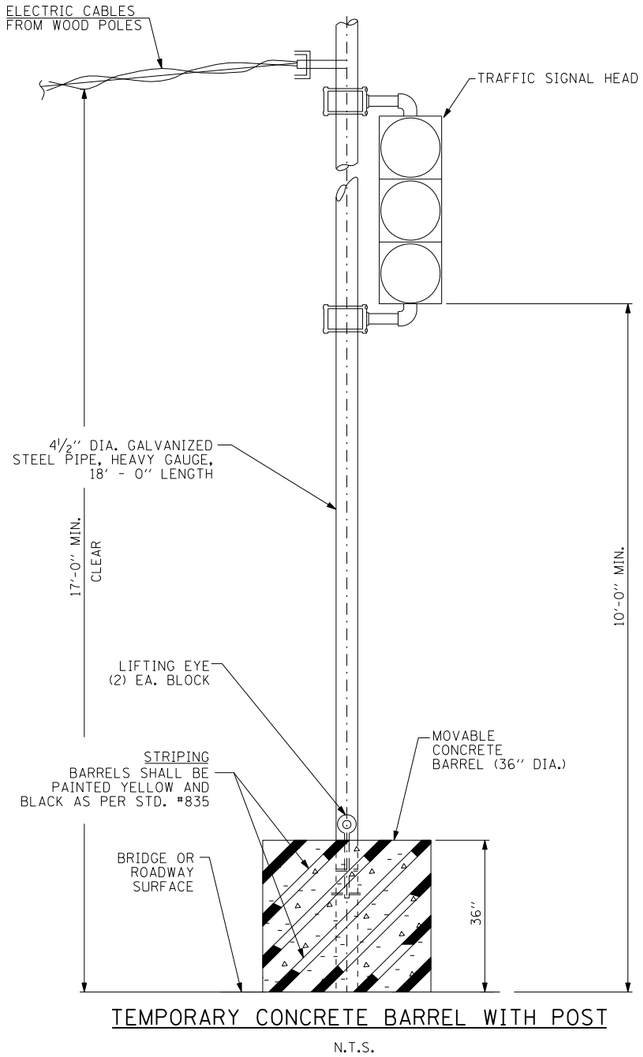
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN ILLINOIS ROUTE 64 (NORTH AVENUE) AT EAST RAMPS (SHEET 1 OF 2)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - EA, MG	REVISED -			307	2012-029-TS	DuPAGE	55	36
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -							CONTRACT NO. 60T80
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



TEMPORARY VIDEO DETECTION
MOUNTING DETAIL
(NOT TO SCALE)







TEMPORARY CONCRETE BARREL WITH POST
N.T.S.

NOTE 1: CONTRACTOR SHALL BE REQUIRED TO CONTACT THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY BEFORE ANY WORK CAN BE PERFORMED WITHIN THEIR R.O.W..

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

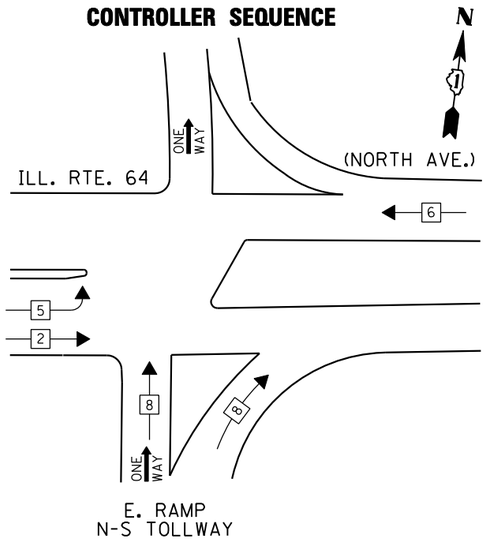
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT EAST RAMPS
(SHEET 2 OF 2)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	37
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

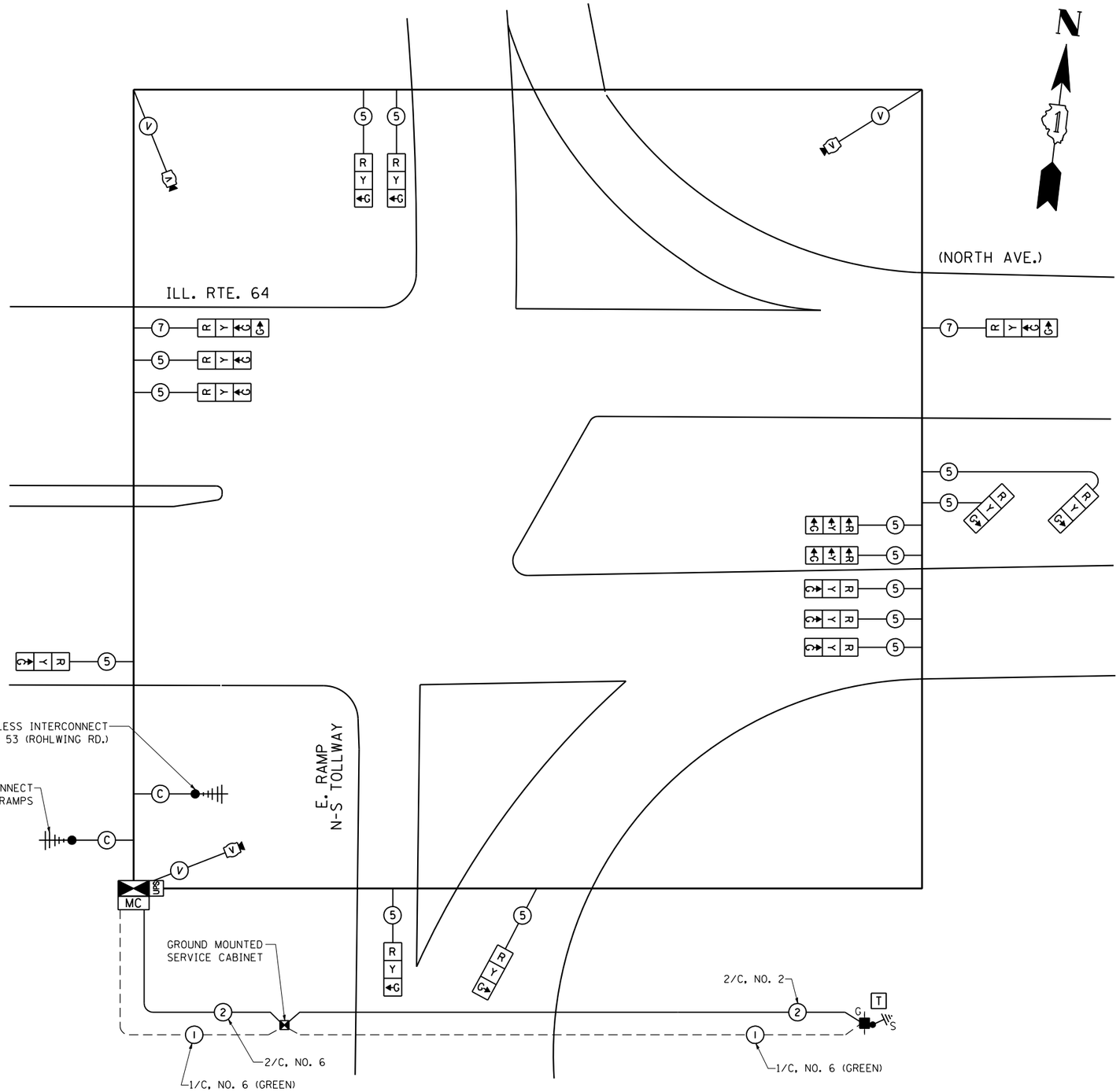
CONTROLLER SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

(NOT TO SCALE)

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

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.50	136
(YELLOW)	16		25	0.25	100
(GREEN)	18		15	0.25	67.5
ARROW			12	0.10	
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	553.5

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COMMONWEALTH EDISON

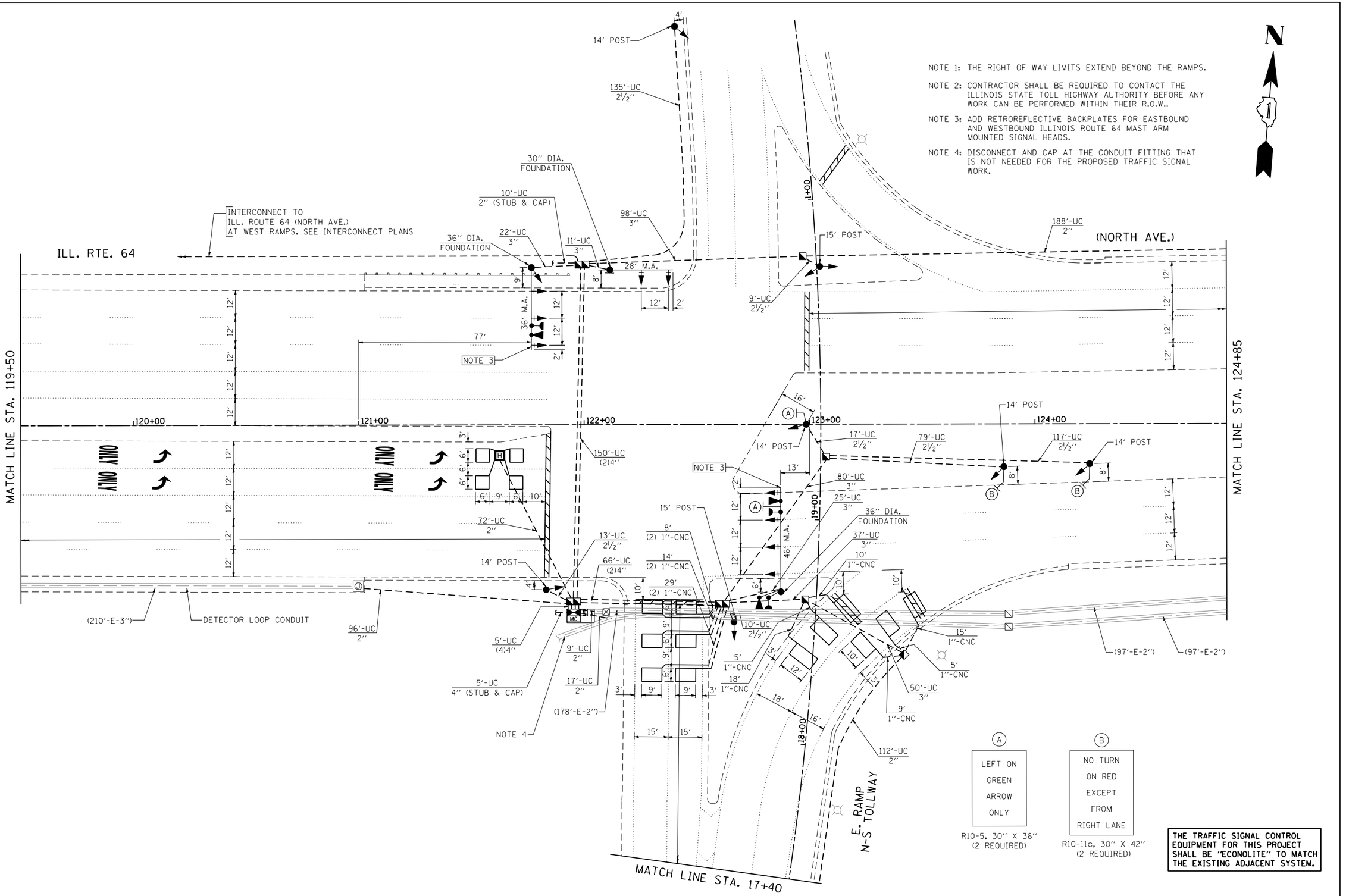
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND
TEMPORARY PHASE DESIGNATION DIAGRAM
ILLINOIS ROUTE 64 (NORTH AVENUE) AT EAST RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	38
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

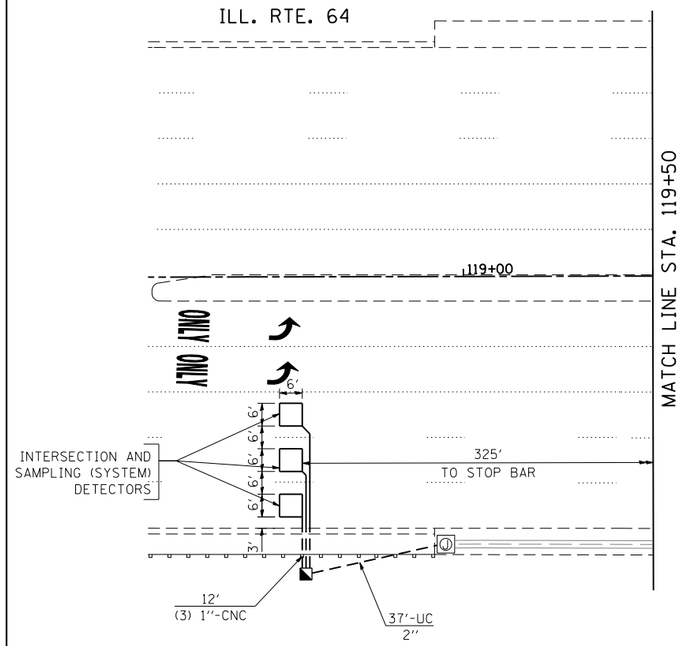
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

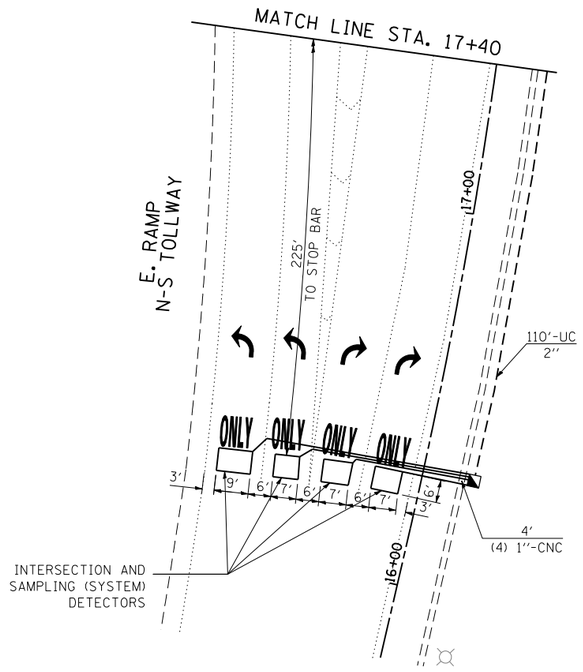
TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT EAST RAMPS
(SHEET 1 OF 2)

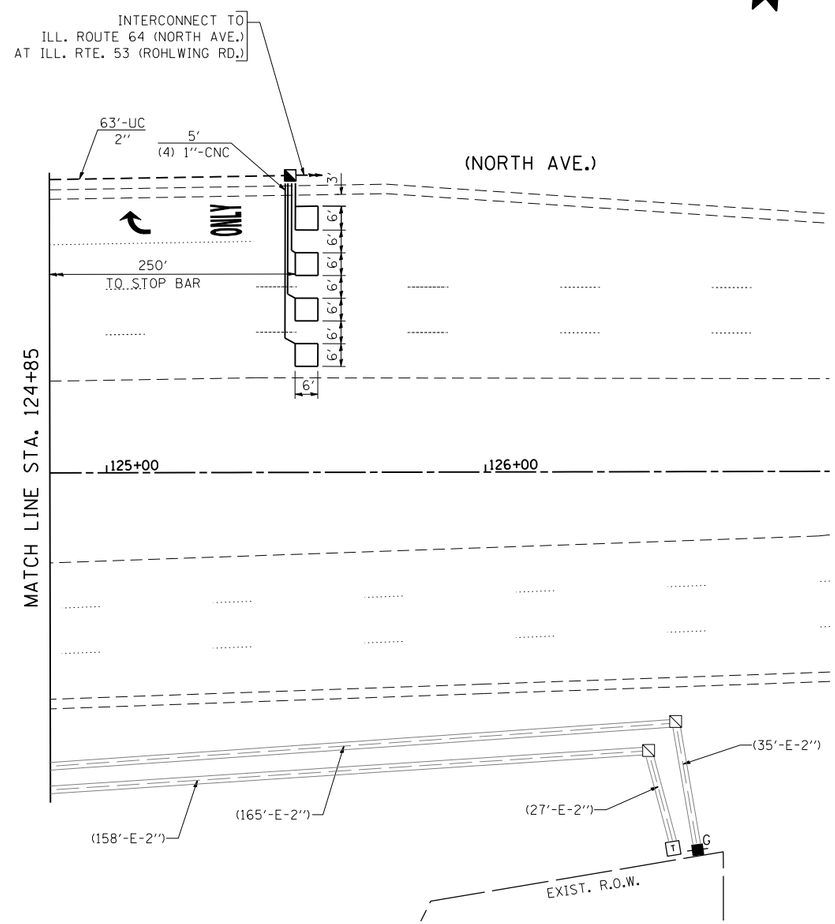
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	39
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT







N

NOTE 1: THE RIGHT OF WAY LIMITS EXTEND BEYOND THE RAMPS.

NOTE 2: CONTRACTOR SHALL BE REQUIRED TO CONTACT THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY BEFORE ANY WORK CAN BE PERFORMED WITHIN THEIR R.O.W..

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

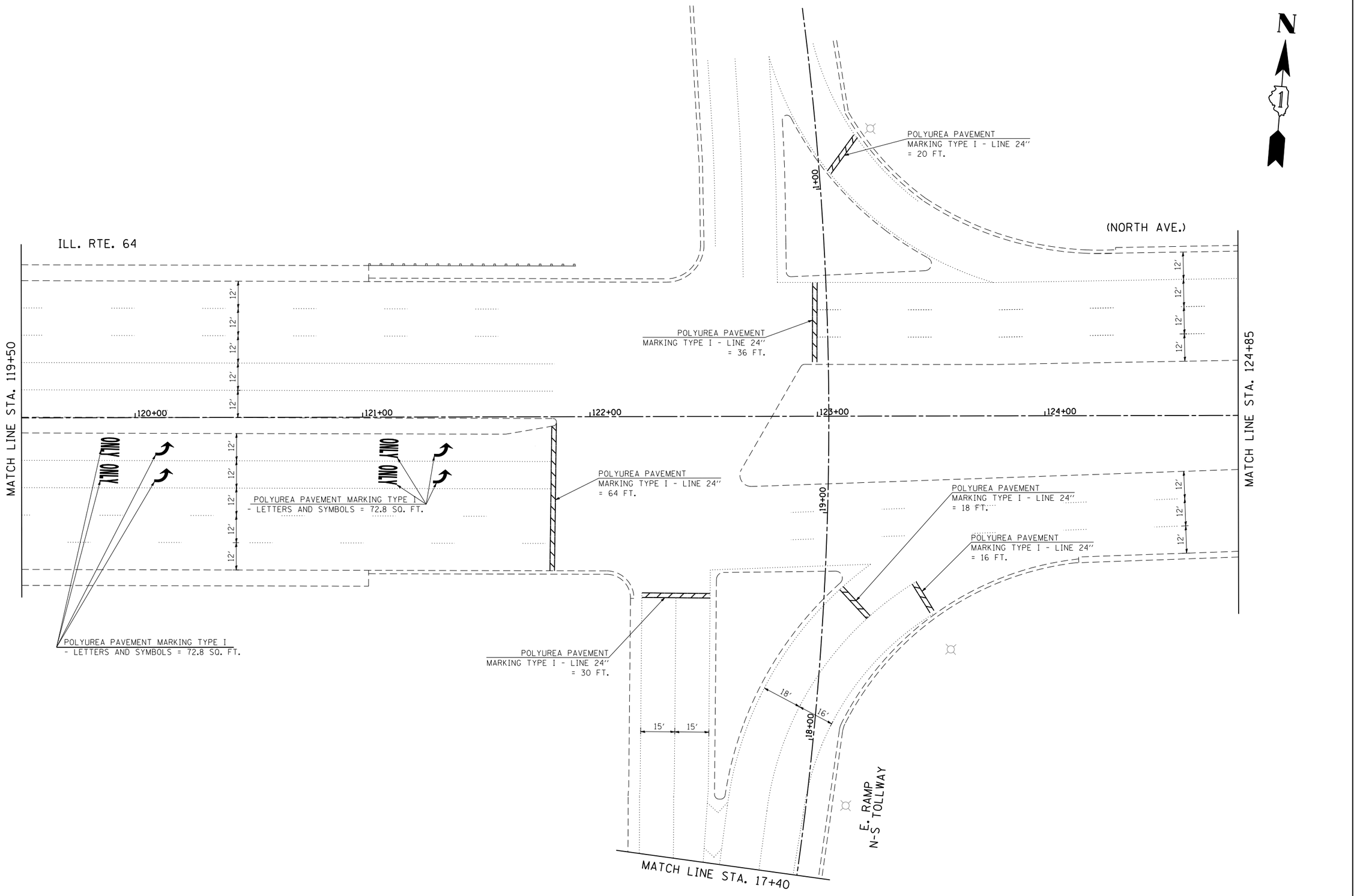
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT EAST RAMPS
(SHEET 2 OF 2)

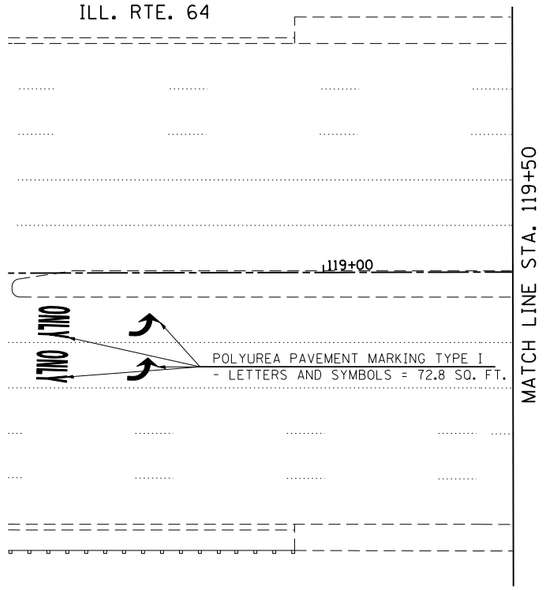
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

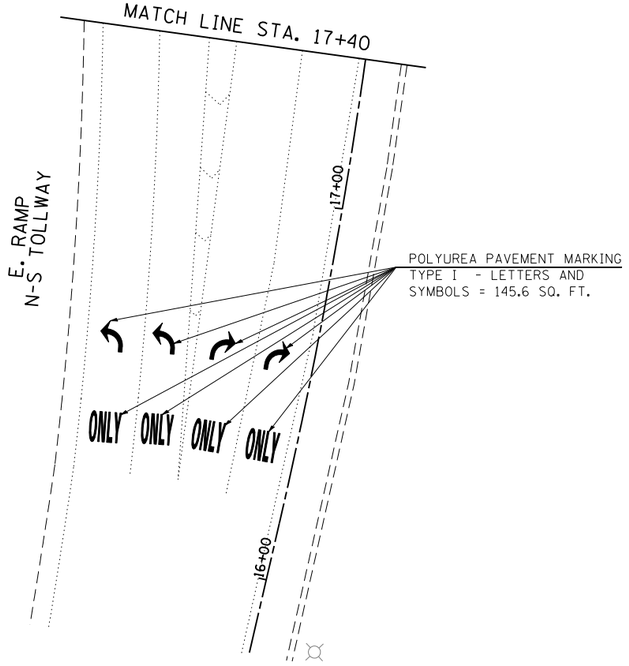
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	40
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

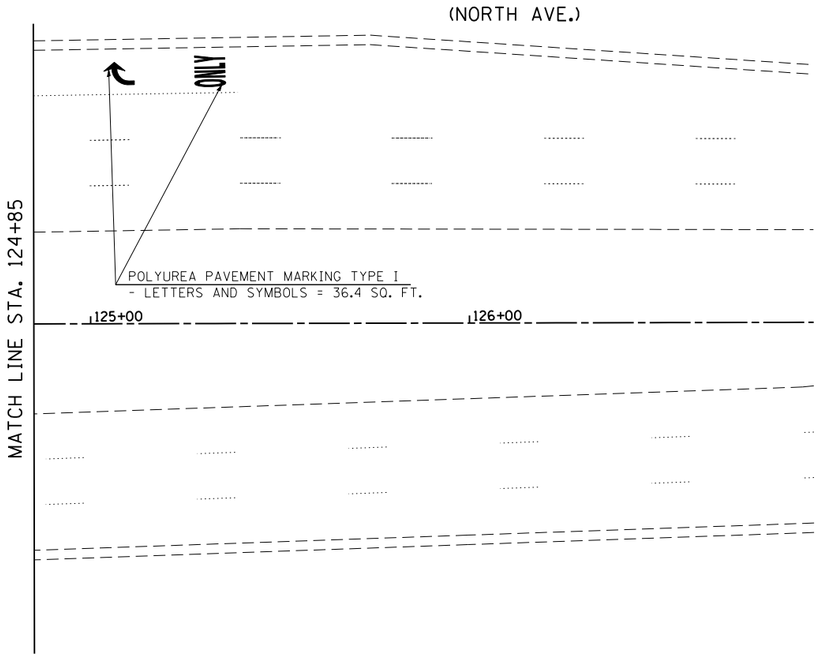


FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PAVEMENT MARKING PLAN**
		DRAWN - EA, MG	REVISED -		**ILLINOIS ROUTE 64 (NORTH AVENUE) AT EAST RAMPS**
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -		**(SHEET 1 OF 2)**
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

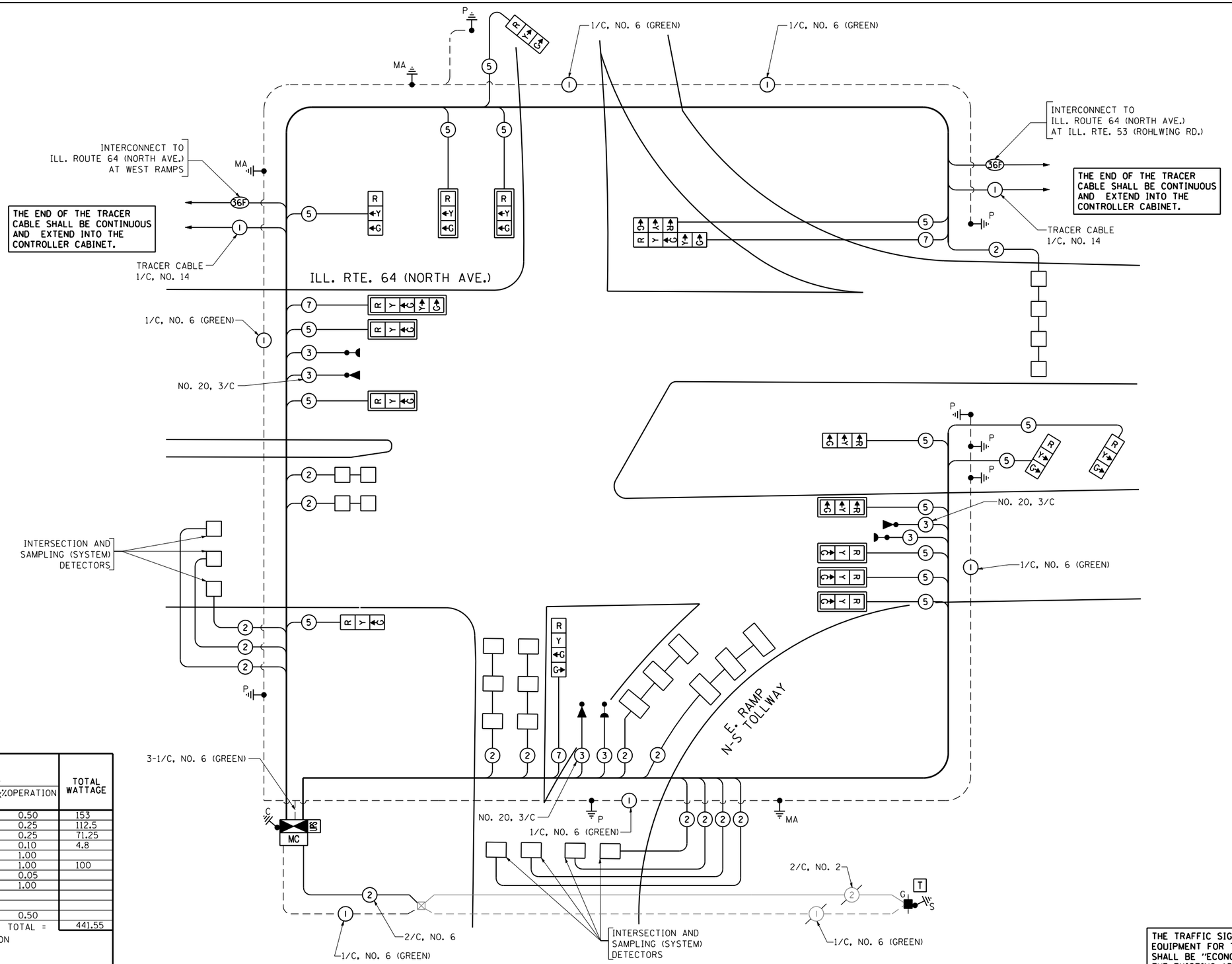
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	41
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		







FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PAVEMENT MARKING PLAN ILLINOIS ROUTE 64 (NORTH AVENUE) AT EAST RAMPS (SHEET 2 OF 2)**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - EA, MG	REVISED -			307	2012-029-TS	DuPAGE	55	42
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -							CONTRACT NO. 60T80
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



CABLE PLAN

(NOT TO SCALE)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	X WATTAGE INCAND.	LED	X OPERATION	
SIGNAL (RED)	18		17	0.50	153
(YELLOW)	18		25	0.25	112.5
(GREEN)	19		15	0.25	71.25
ARROW	4		12	0.10	4.8
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	441.55

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COMMONWEALTH EDISON

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) AT EAST RAMPS

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

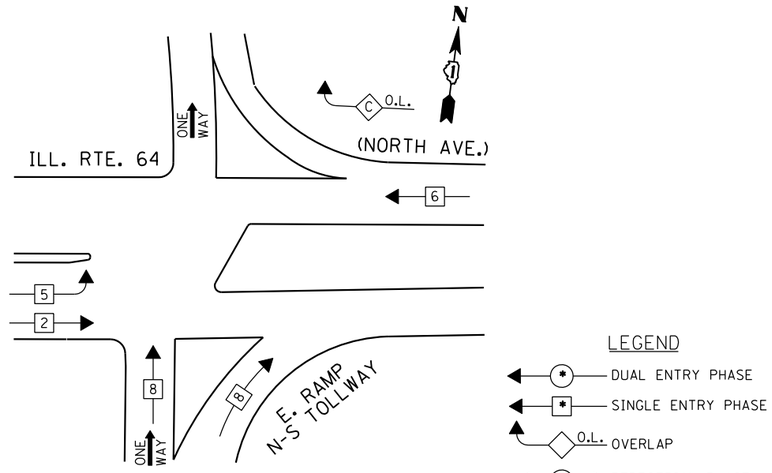
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	43
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

	QUANTITY	UNIT	ITEM
	32.5	SQ FT	SIGN PANEL - TYPE 1
	12.5	SQ FT	SIGN PANEL - TYPE 2
	400	SQ FT	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS
	184	FOOT	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"
	72	SQ FT	PAVEMENT MARKING REMOVAL
	1	EACH	SERVICE INSTALLATION - GROUND MOUNTED
	1729	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
	380	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2½" DIA.
	323	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
	457	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
	11	EACH	HANDHOLE
	1	EACH	HEAVY-DUTY HANDHOLE
	3	EACH	DOUBLE HANDHOLE
	1	EACH	TRANSCEIVER-FIBER OPTIC
	604	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
	3485	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
	690	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
	4176	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
	518	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2 2C
	34	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
	1583	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
	5	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 28 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 36 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 46 FT.
	28	FOOT	CONCRETE FOUNDATION, TYPE A
	4	FOOT	CONCRETE FOUNDATION, TYPE C
	10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
	24	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
	8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
	6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
	1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
	2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
	14	EACH	INDUCTIVE LOOP DETECTOR
	1034	FOOT	DETECTOR LOOP, TYPE I
•	3	EACH	LIGHT DETECTOR
•	1	EACH	LIGHT DETECTOR AMPLIFIER
	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
	12	EACH	REMOVE EXISTING HANDHOLE
	2	EACH	REMOVE EXISTING DOUBLE HANDHOLE
	9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
•	604	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
	1	EACH	FULL-ACTUATED CONTROLLER AND CABINET, TYPE V, SPECIAL
	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
	7	EACH	TRAFFIC SIGNAL BACKPLATE, SPECIAL
	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

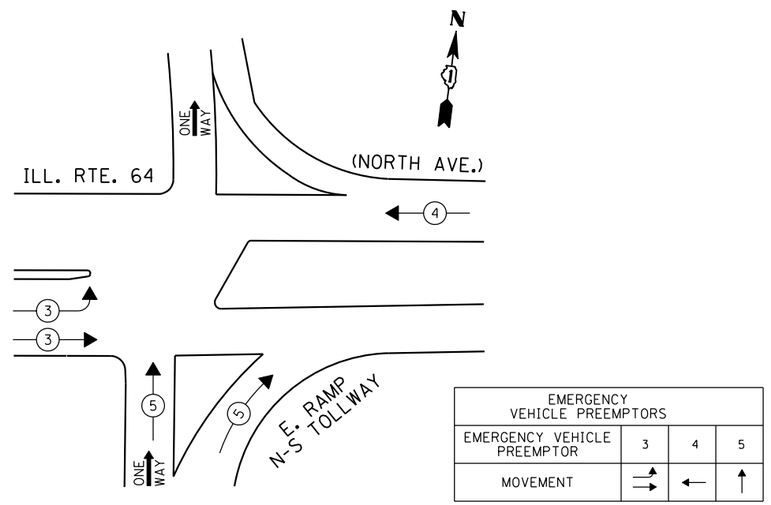
• 100% COST TO VILLAGE OF LOMBARD

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
C	=	6	+	8



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

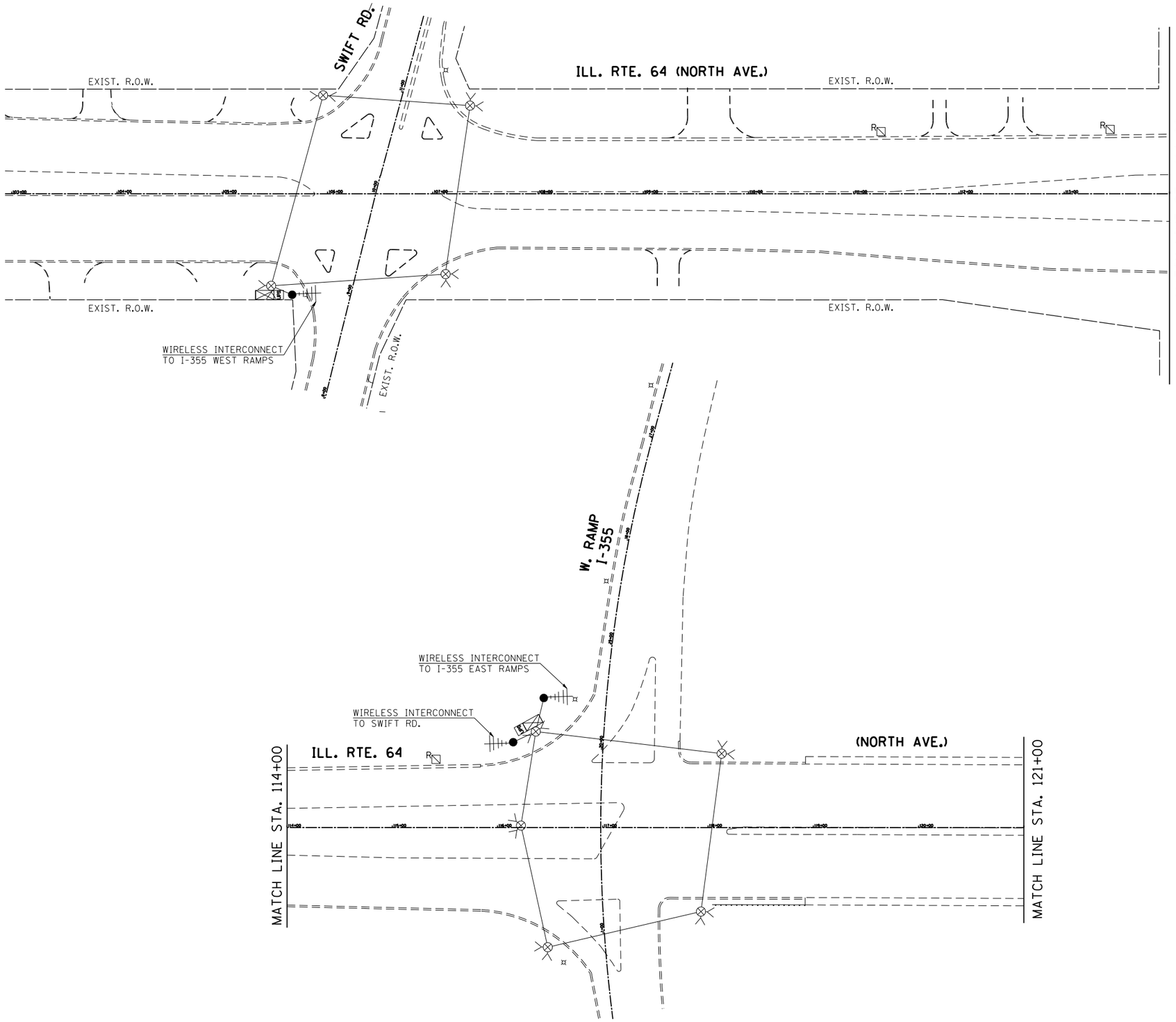
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 64 (NORTH AVENUE) AT EAST RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	44
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT



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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

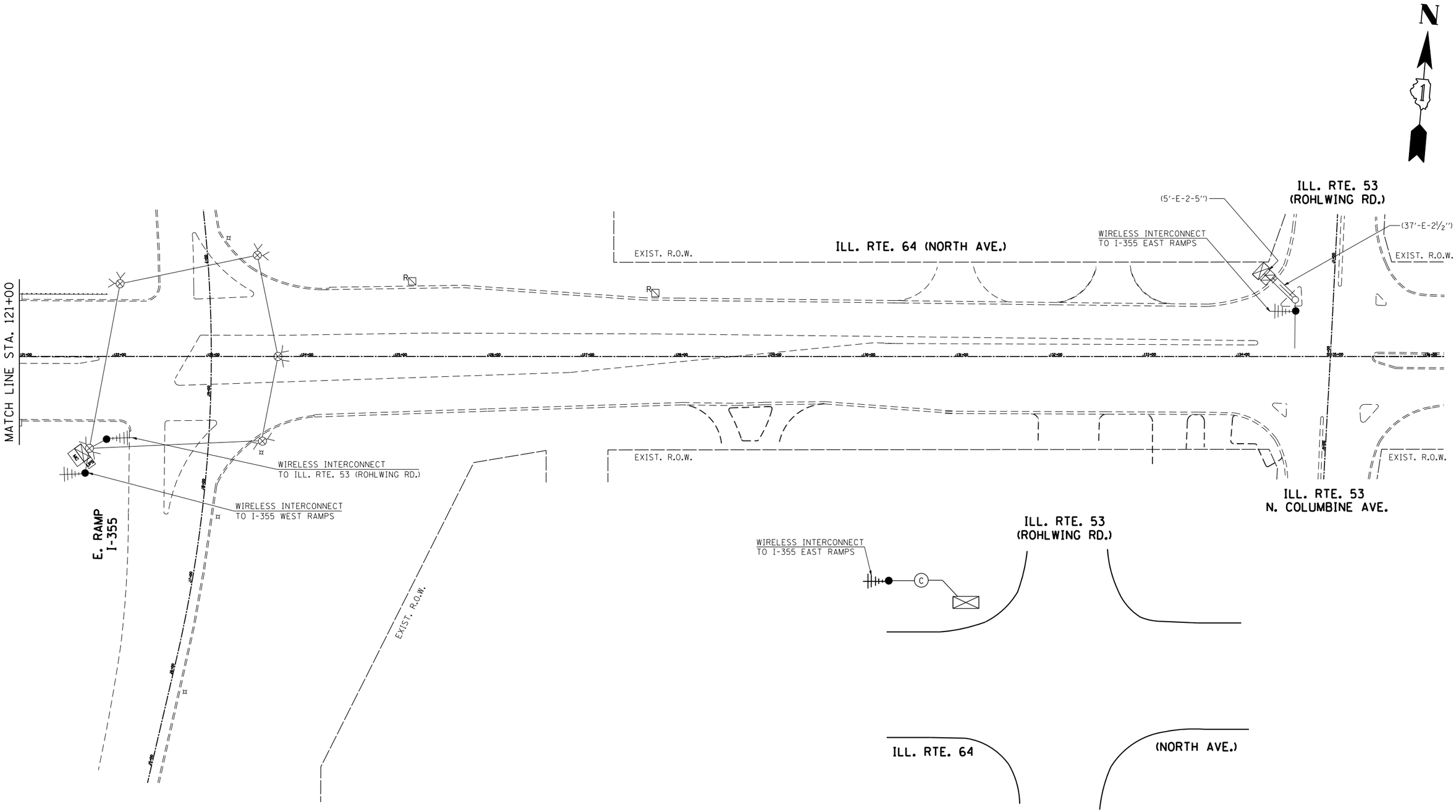
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY RADIO INTERCONNECT PLAN ILLINOIS ROUTE 64 (NORTH AVENUE) FROM SWIFT ROAD TO ILLINOIS ROUTE 53 (ROHLWING ROAD) (SHEET 1 OF 2)

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	45
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



PARTIAL CABLE DIAGRAM
ILL. RTE. 64 (NORTH AVE.) AT
ILL. RTE. 53 (ROHLWING RD.)

(NOT TO SCALE)

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

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

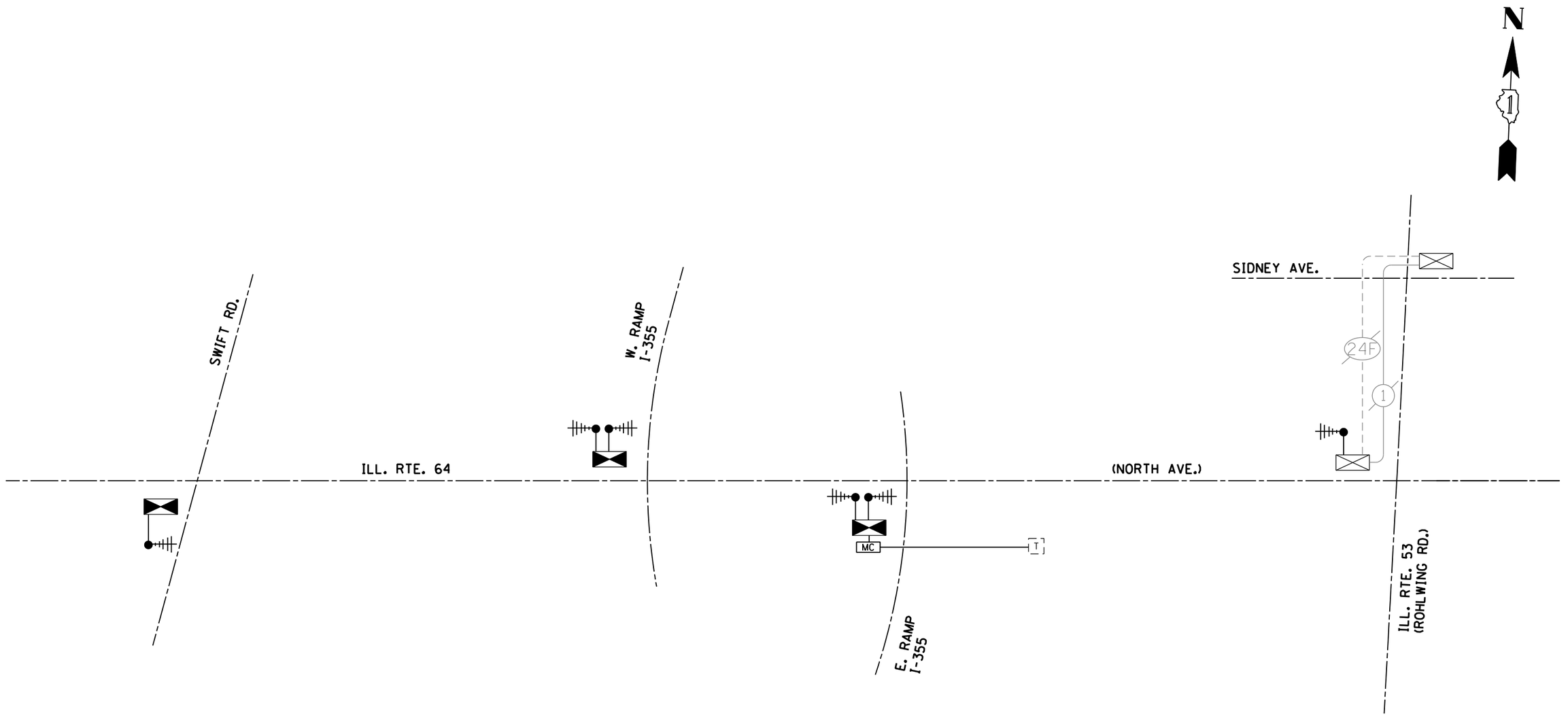
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY RADIO INTERCONNECT PLAN ILLINOIS ROUTE 64 (NORTH AVENUE) FROM SWIFT ROAD TO ILLINOIS ROUTE 53 (ROHLWING ROAD) (SHEET 2 OF 2)

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	46
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

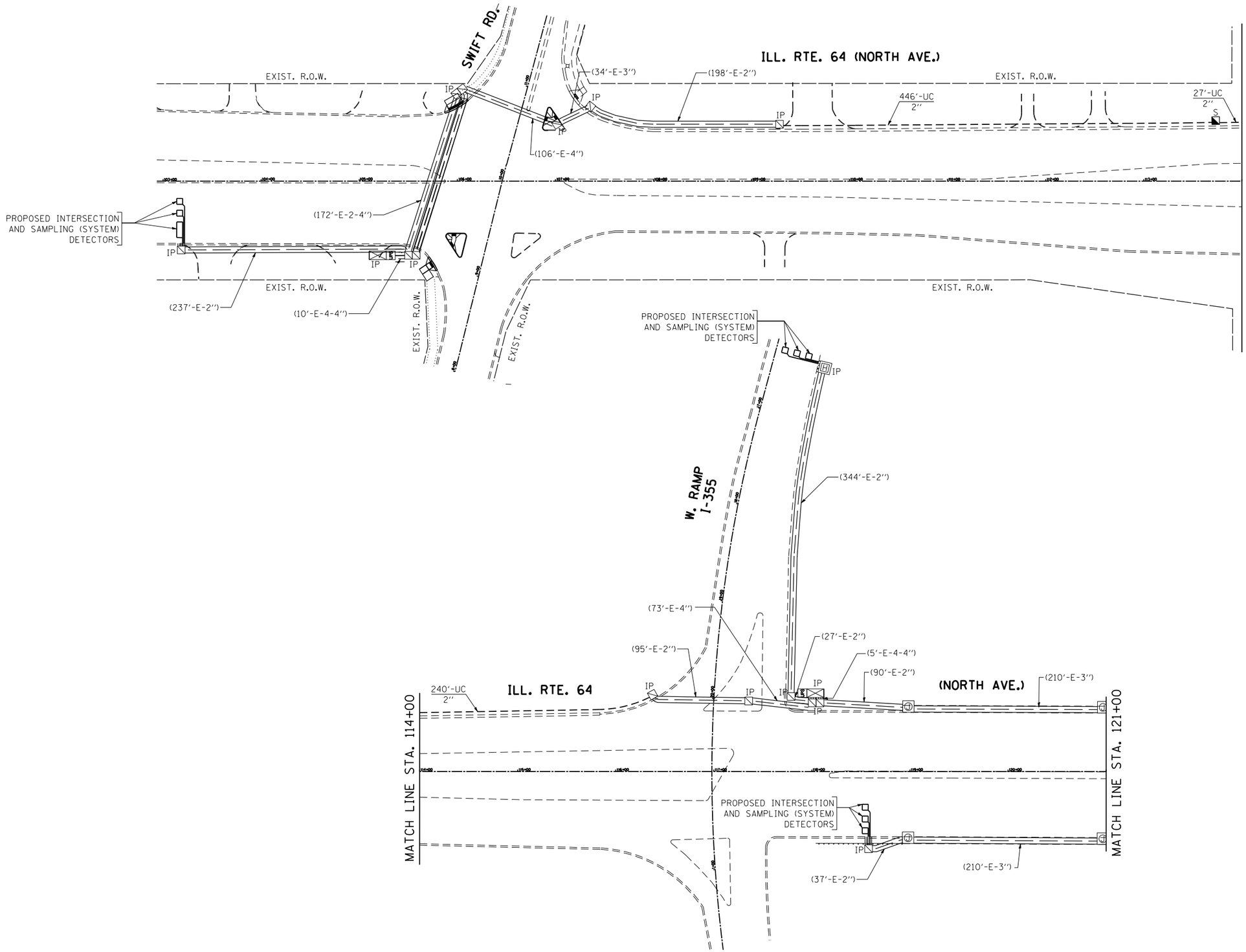
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY RADIO INTERCONNECT SCHEMATIC
ILLINOIS ROUTE 64 (NORTH AVENUE) FROM SWIFT ROAD TO ILLINOIS ROUTE 53 (ROHLWING ROAD)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	47
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT



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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

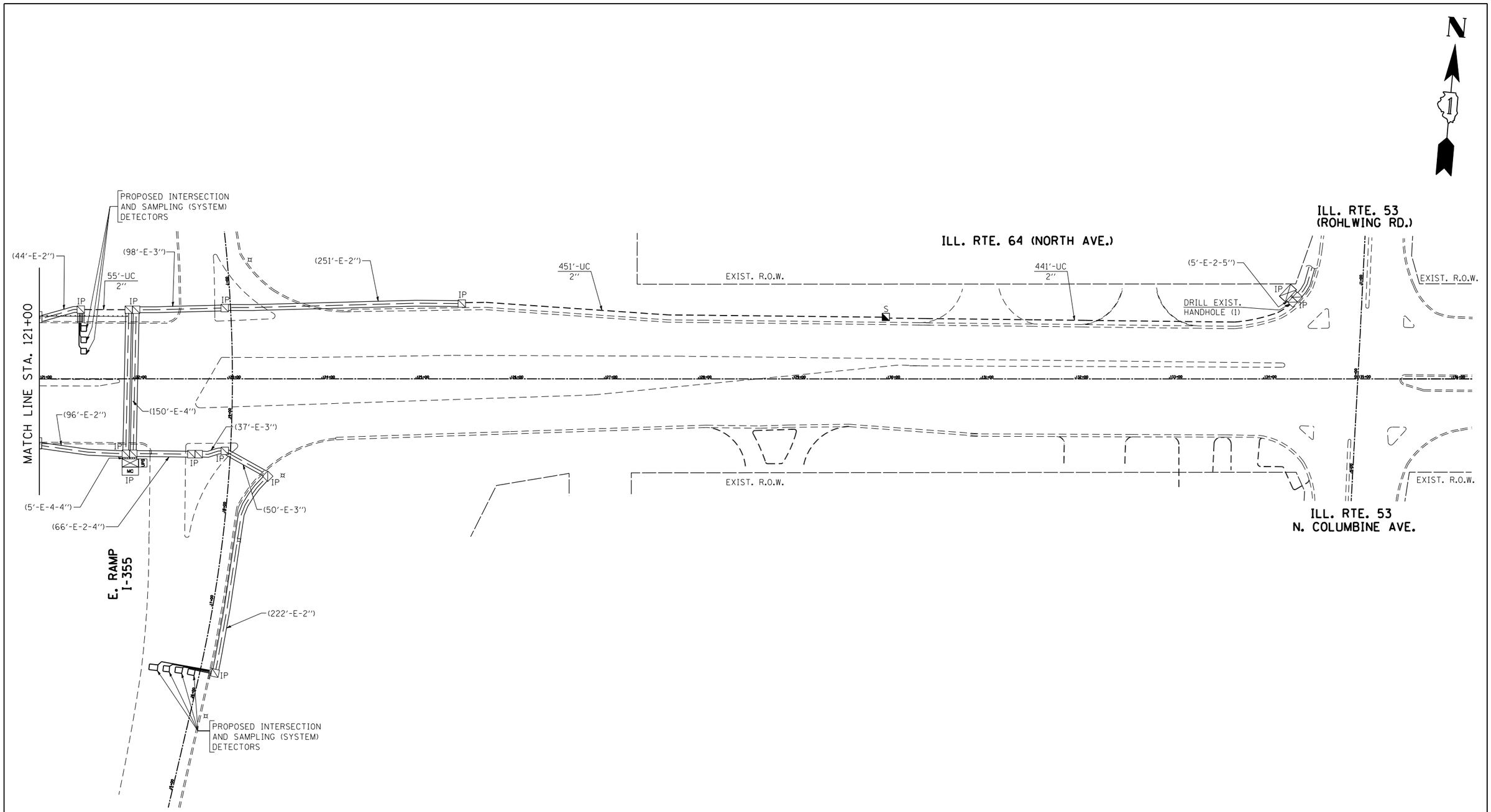
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) FROM SWIFT ROAD TO ILLINOIS ROUTE 53 (ROHLWING ROAD) (SHEET 1 OF 2)

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	48
		CONTRACT NO. 60T80		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



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

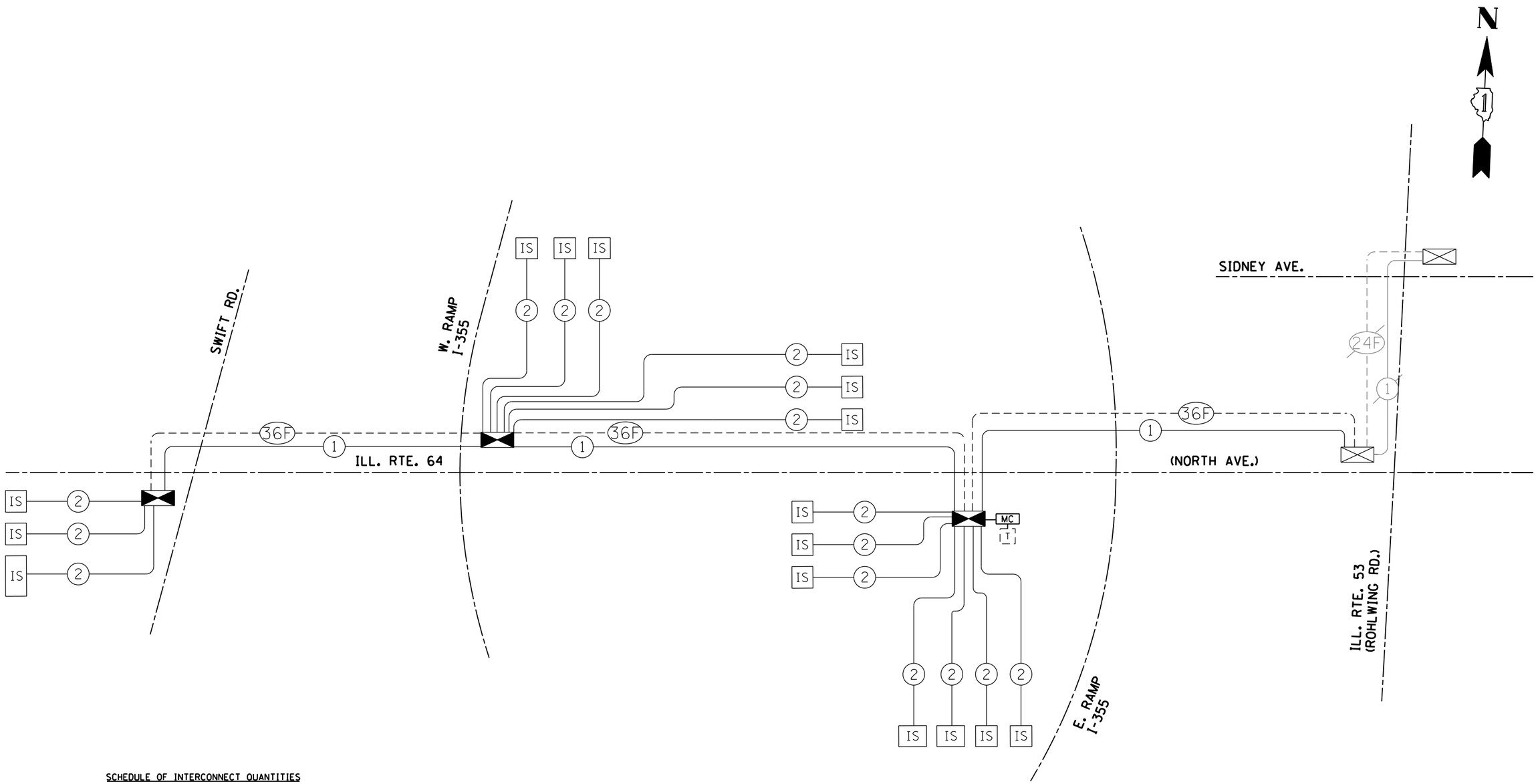
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
ILLINOIS ROUTE 64 (NORTH AVENUE) FROM SWIFT ROAD TO ILLINOIS ROUTE 53 (ROHLWING ROAD) (SHEET 2 OF 2)

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	49
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SCHEDULE OF INTERCONNECT QUANTITIES

QUANTITY	UNIT	ITEM
1660	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
2	EACH	HANDHOLE
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3589	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C
1	EACH	DRILL EXISTING HANDHOLE
58	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
5	EACH	REMOVE EXISTING HANDHOLE
1	EACH	MASTER CONTROLLER (SPECIAL)
3667	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F
1	EACH	OPTIMIZE TRAFFIC SIGNAL SYSTEM

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

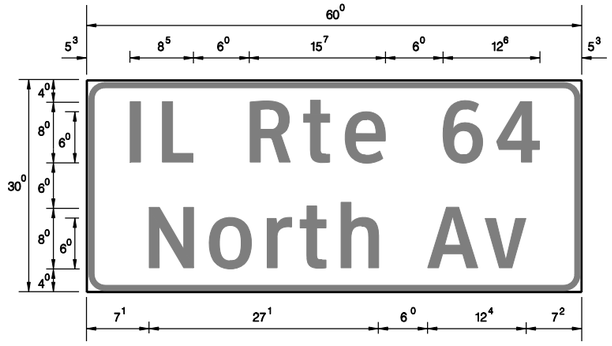
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
ILLINOIS ROUTE 64 (NORTH AVENUE) FROM SWIFT ROAD TO ILLINOIS ROUTE 53 (ROHLWING ROAD)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	50
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

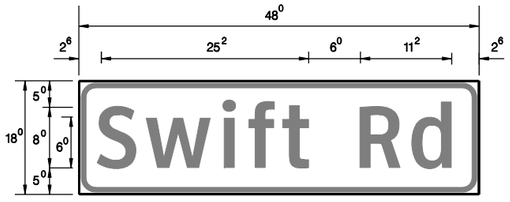


- Sq. M. each

12.5 Sq. Ft. each

4 Required

Design Series D



- Sq. M. each

6.0 Sq. Ft. each

2 Required

Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
4. ALL BORDERS SHALL BE ¾" WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

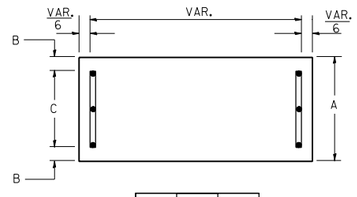
* J.O. HERBERT CO.
  MIDLOTHIAN, VA.
* WESTERN REMAC INC.
  WOODRIDGE, IL.

PARTS LISTING:

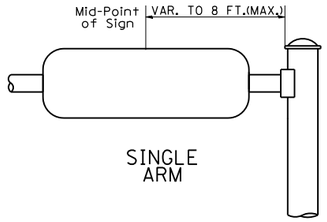
SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
SIGN SCREWS	¼" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

SUPPORTING CHANNELS

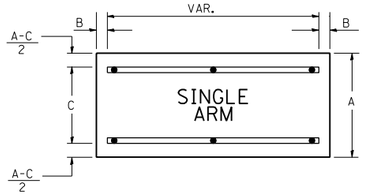


A	B	C
18"	2"	14"

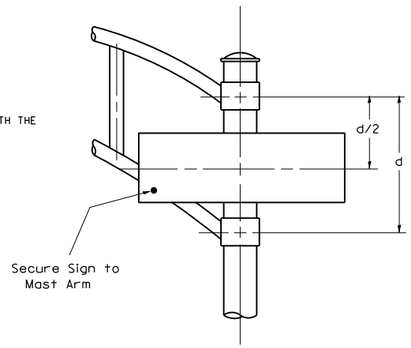


SINGLE ARM

SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM

Shall be used. See Note #5.

Upper Case To Lower Case

Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2 (3) DENOTES 3/8"

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{2}	1^{4}
B	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{6}	1^{7}
C E G	1^{4}	1^{5}	2^{0}	2^{1}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
D O Q R	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
F	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}
H I M N	2^{0}	2^{1}	2^{2}	2^{4}	2^{0}	2^{1}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}	2^{0}	2^{1}
J U	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}
K L	1^{1}	1^{2}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
P	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
S	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
T	1^{1}	1^{2}	1^{6}	1^{7}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
V	0^{6}	1^{0}	1^{4}	1^{5}	1^{1}	1^{2}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
Y	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{5}	0^{7}	0^{5}	0^{6}	0^{6}	1^{0}	1^{1}	1^{2}
Z	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}

Lower Case To Lower Case

Spacing Chart 6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
a d h g i j l m n q u	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}
b f k o p s	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
c e	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
r	0^{6}	1^{0}	1^{2}	1^{4}	0^{6}	1^{0}	0^{3}	0^{3}	0^{5}	0^{6}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}
t z	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
v y	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}
w	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
x	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}

Number To Number

Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER	SECOND NUMBER: 0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}
1	2^{0}	2^{1}	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}
2 3 4	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{6}	1^{7}	1^{4}	1^{5}
5	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
6	1^{6}	1^{7}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
7	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{5}	0^{5}	0^{6}	1^{2}	1^{4}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}
8	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{4}	1^{5}

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS, SERIES C	6 INCH UPPER CASE LETTERS, SERIES D	8 INCH UPPER CASE LETTERS, SERIES C	8 INCH UPPER CASE LETTERS, SERIES D	LETTERS	6 INCH LOWER CASE LETTERS, SERIES C	6 INCH LOWER CASE LETTERS, SERIES D
A	3^{6}	5^{0}	5^{0}	6^{5}	a	3^{5}	4^{2}
B	3^{2}	4^{0}	4^{3}	5^{3}	b	3^{5}	4^{2}
C	3^{2}	4^{0}	4^{3}	5^{3}	c	3^{5}	4^{1}
D	3^{2}	4^{0}	4^{3}	5^{3}	d	3^{5}	4^{2}
E	3^{0}	3^{5}	4^{0}	4^{7}	e	3^{5}	4^{2}
F	3^{0}	3^{5}	4^{0}	4^{7}	f	2^{3}	2^{6}
G	3^{2}	4^{0}	4^{3}	5^{3}	g	3^{5}	4^{2}
H	3^{2}	4^{0}	4^{3}	5^{3}	h	3^{5}	4^{2}
I	0^{7}	0^{7}	1^{1}	1^{2}	i	1^{1}	1^{1}
J	3^{0}	3^{6}	4^{0}	5^{0}	j	2^{0}	2^{2}
K	3^{2}	4^{1}	4^{3}	5^{4}	k	3^{5}	4^{2}
L	3^{0}	3^{5}	4^{0}	4^{7}	l	1^{1}	1^{1}
M	3^{7}	4^{5}	5^{1}	6^{1}	m	6^{0}	7^{0}
N	3^{2}	4^{0}	4^{3}	5^{3}	n	3^{5}	4^{2}
O	3^{4}	4^{2}	4^{5}	5^{5}	o	3^{6}	4^{3}
P	3^{2}	4^{0}	4^{3}	5^{3}	p	3^{5}	4^{2}
Q	3^{4}	4^{2}	4^{5}	5^{5}	q	3^{5}	4^{2}
R	3^{2}	4^{0}	4^{3}	5^{3}	r	2^{6}	3^{2}
S	3^{2}	4^{0}	4^{3}	5^{3}	s	3^{6}	4^{2}
T	3^{0}	3^{5}	4^{0}	4^{7}	t	2^{7}	3^{2}
U	3^{2}	4^{0}	4^{3}	5^{3}	u	3^{5}	4^{2}
V	3^{5}	4^{4}	4^{7}	6^{0}	v	4^{2}	4^{7}
W	4^{4}	5^{2}	6^{0}	7^{0}	w	5^{5}	6^{4}
X	3^{4}	4^{0}	4^{5}	5^{3}	x	4^{4}	5^{1}
Y	3^{6}	5^{0}	5^{0}	6^{6}	y	4^{6}	5^{3}
Z	3^{2}	4^{0}	4^{3}	5^{3}	z	3^{6}	4^{3}

NUMBER	6 INCH SERIES, C	6 INCH SERIES, D	8 INCH SERIES, C	8 INCH SERIES, D
1	1^{2}	1^{4}	1^{5}	2^{0}
2	3^{2}	4^{0}	4^{3}	5^{3}
3	3^{2}	4^{0}	4^{3}	5^{3}
4	3^{5}	4^{3}	4^{7}	5^{7}
5	3^{2}	4^{0}	4^{3}	5^{3}
6	3^{2}	4^{0}	4^{3}	5^{3}
7	3^{2}	4^{0}	4^{3}	5^{3}
8	3^{2}	4^{0}	4^{3}	5^{3}
9	3^{2}	4^{0}	4^{3}	5^{3}
0	3^{4}	4^{2}	4^{5}	5^{5}

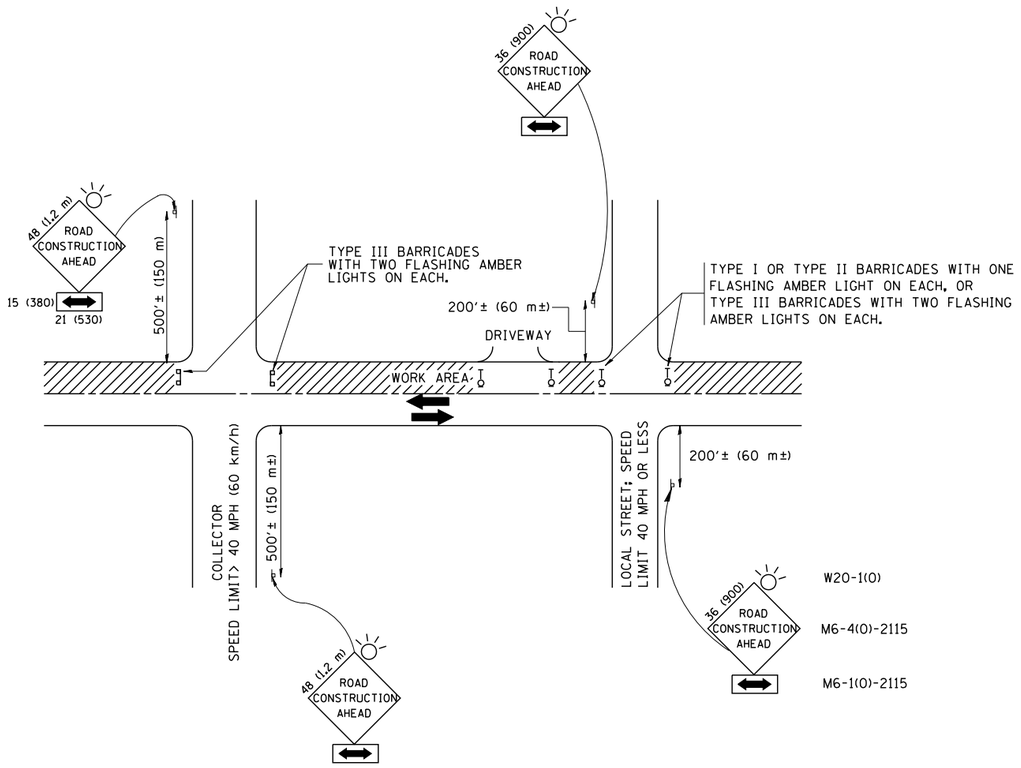
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, MG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 12/7/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	51
		CONTRACT NO. 60T80		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

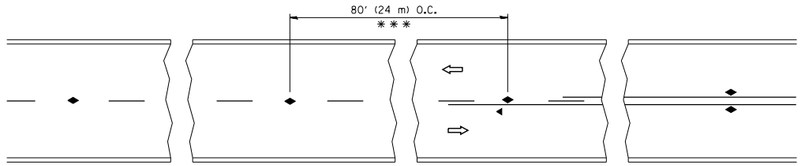
FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

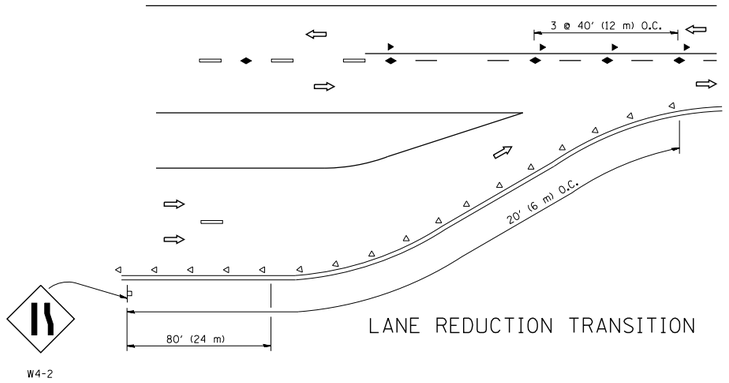
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	52
	TC-10	CONTRACT NO. 60T80		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

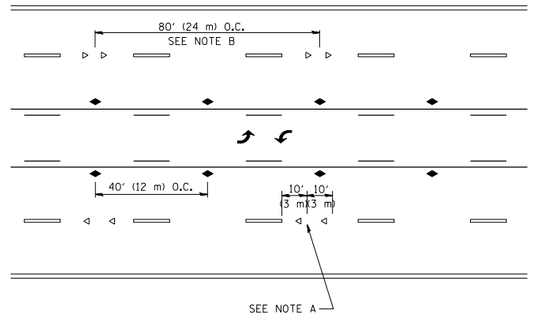


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

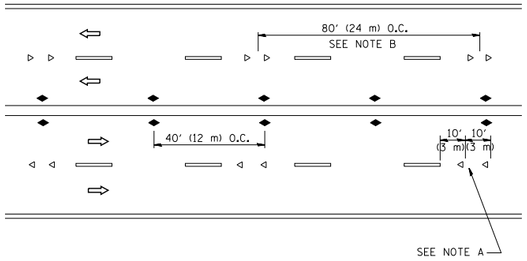
TWO-LANE/TWO-WAY



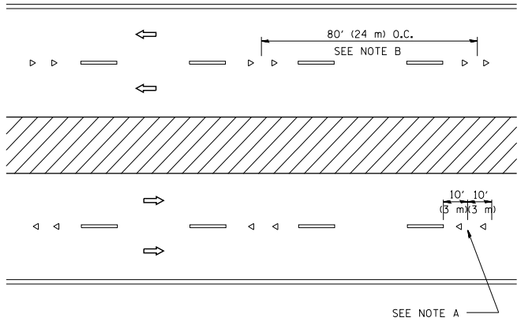
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

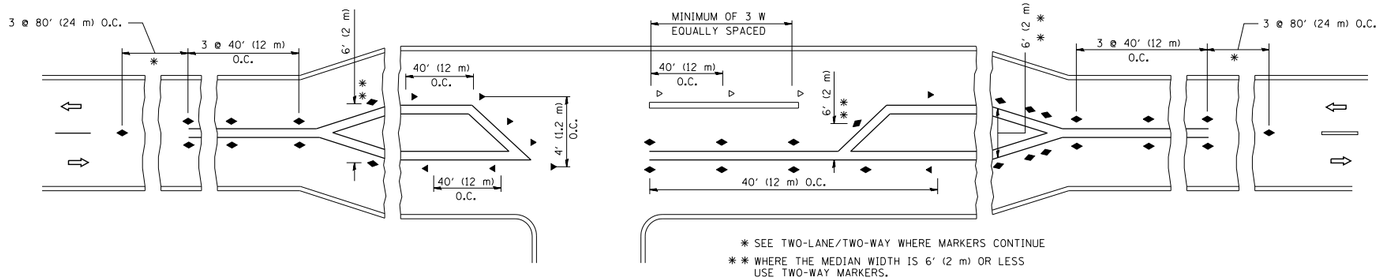
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



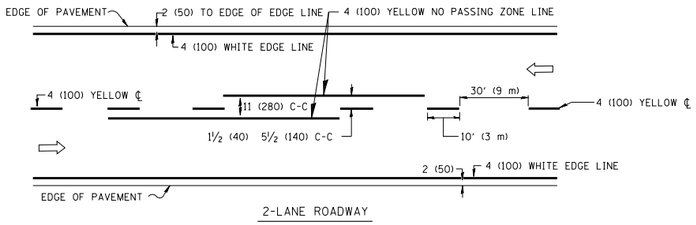
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

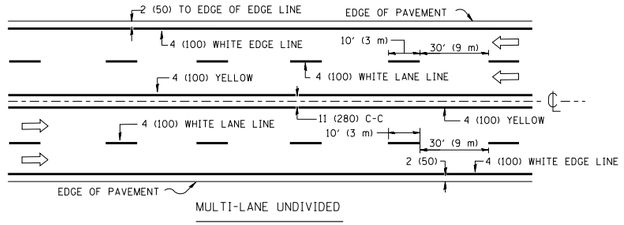
LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

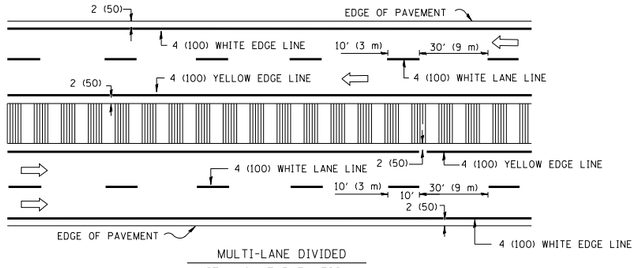
FILE NAME = c:\pw_work\pwidot\leysa\d0108315\tc11.dgn	USER NAME = leysa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - T. RAMMACHER 03-12-99			307	2012-029-TS	DuPAGE	55	53
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00				**TC-11**		CONTRACT NO. 60T80	
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE / SHEET NO. 1 OF 1 SHEETS / STA. / TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



2-LANE ROADWAY



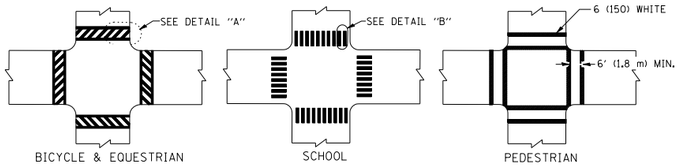
MULTI-LANE UNDIVIDED

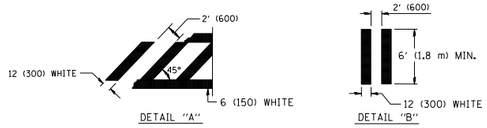


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

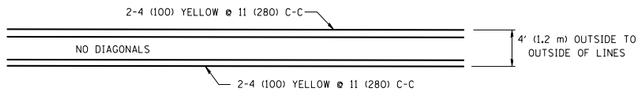
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

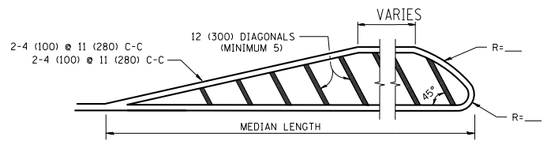




TYPICAL CROSSWALK MARKING



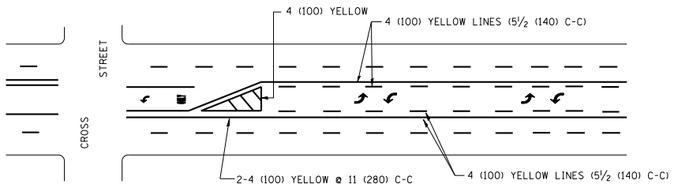
4' (1.2 m) WIDE MEDIANS ONLY



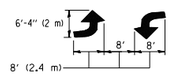
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

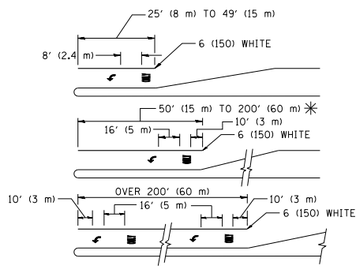


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

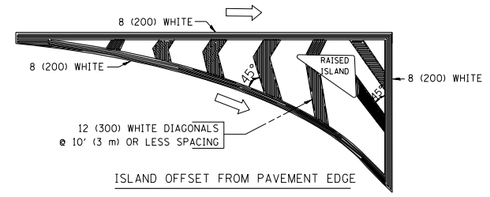


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

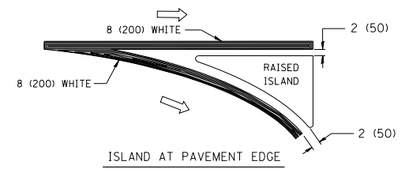
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ø 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ø 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ø 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ø 6 (150) 12 (300) ø 45° 12 (300) ø 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ø 4 (100) WITH 12 (300) DIAGONALS ø 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ø 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) ø 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

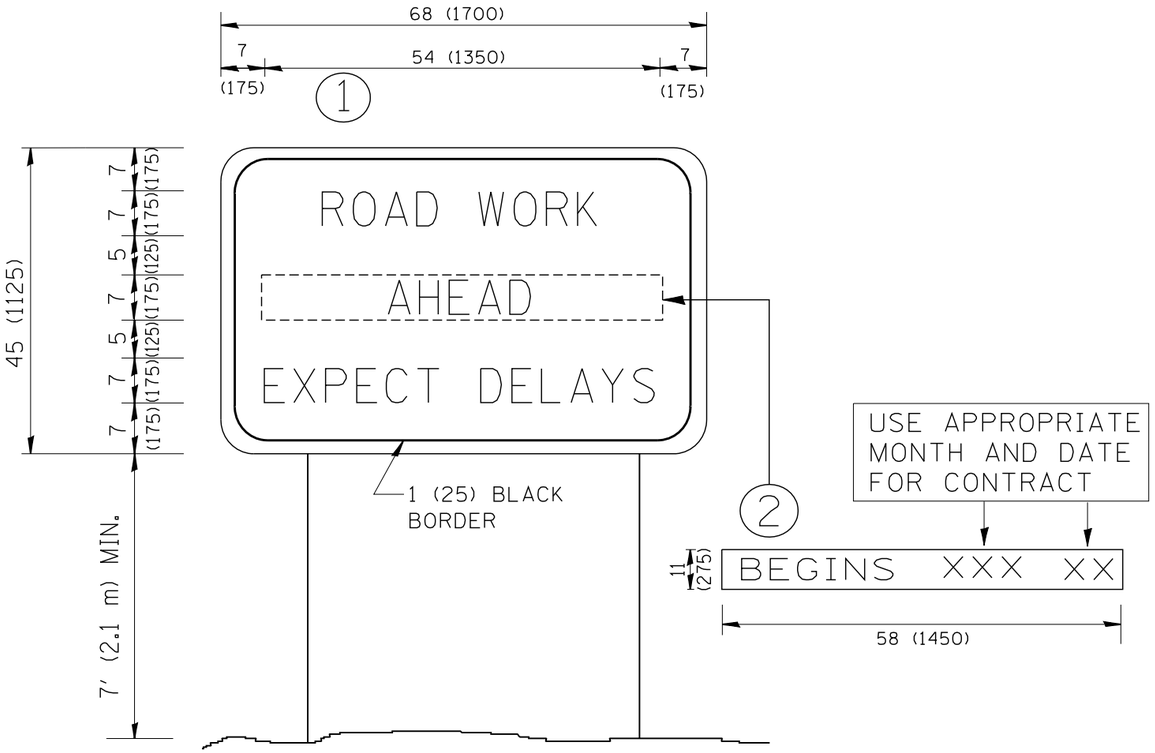
FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\tc13.dgn	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
		DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	54
	TC-13	CONTRACT NO. 60T80		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE ''ROAD CONSTRUCTION AHEAD'' SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR ''TEMPORARY INFORMATION SIGNING'' FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2012-029-TS	DuPAGE	55	55
	TC-22	CONTRACT NO. 60T80		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		