F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	1
	ILLINOIS	CONTRACT NO. 60X35		

D-91-074-14

FOR INDEX OF SHEETS, SEE SHEET NO. 2

04-25-14 LETTING ITEM 012

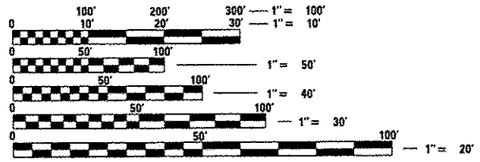
HIGHWAY STANDARD

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701421-06	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS 45-55 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND 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

DESIGN DESIGNATIONS

ROUTE	FUNCTIONAL CLASSIFICATION	ADT	DESIGN SPEED	POSTED SPEED
IL ROUTE 83	STRATEGIC REGIONAL ARTERIAL (SRA)	49,500 (2011)	50 MPH	45 MPH
THIRD AVENUE	MAJOR COLLECTOR	7,800 (2012)	35 MPH	30 MPH
OAK MEADOWS DRIVE	MAJOR COLLECTOR	7,800 (2012)	35 MPH	30 MPH
GROVE AVENUE	MAJOR COLLECTOR	N/A	30 MPH	25 MPH
SHERWOOD DRIVE	LOCAL STREET	N/A	25 MPH	20 MPH
HILLSIDE DRIVE	LOCAL STREET	N/A	30 MPH	25 MPH
FOSTER AVENUE	MAJOR COLLECTOR	3,400 (2012)	30 MPH	25 MPH
MARK STREET	LOCAL STREET	1,650 (2012)	35 MPH	30 MPH

IMPROVEMENTS LOCATED IN THE VILLAGE OF BENSENVILLE AND THE CITY OF WOOD DALE



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 LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: AMIR CUBIC /LUKASZ POCIECHA (847) 705-4419
PROJECT MANAGER: SUDUD MAHMOUD (847) 705-4420

CONTRACT NO. 60X35

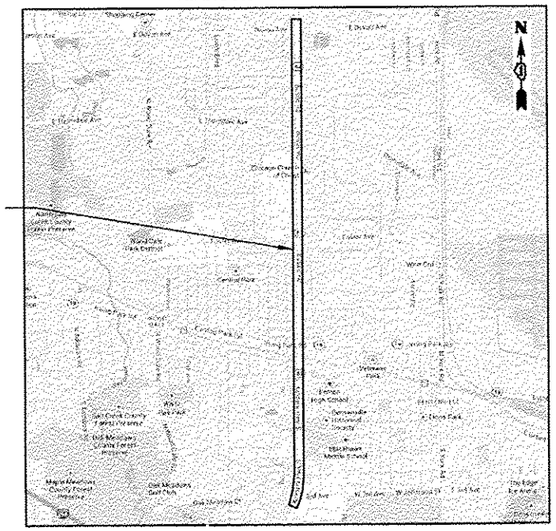
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

DISTRICT 1
HIGHWAY SAFETY IMPROVEMENT PROJECT
FAP ROUTE 344 (IL ROUTE 83)
IL ROUTE 83 (KINGERY HWY. & BUSSE RD.)
THIRD AVENUE /OAK MEADOWS DRIVE
TO MARK STREET
PROJECT: ACHSIP-0344(058)
SECTION 2013-063TS
DUPAGE COUNTY
C-91-074-14

ADDISON TOWNSHIP

PROJECT LOCATION



LOCATION MAP

GROSS AND NET LENGTH = 17,320 FEET = 3.28 MILES

LOCATION OF SECTION INDICATED THUS: -

JOSEPH J. EMRY 062-057496 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

SIGNED _____
JOSEPH EMRY, P.E. IL LIC. NO. 062-057496
EXPIRES 11-30-2015
DATE 01/30/14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan 31 20 14
_____
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 21 20 14
John D. Baranzelli P.E. for
_____
ENGINEER OF DESIGN AND ENVIRONMENT
March 21 20 14
Omer Osman, P.E. for
_____
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PLANS PREPARED BY:

CIVILTECH
450 E. Devon Ave, Suite 300 - Itasca, Illinois 60143
Tel: 630.773.3900 - Fax: 630.773.3975
www.civiltechinc.com

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INDEX OF SHEETS

GENERAL NOTES

THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2012; MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION; PROJECT SPECIFICATIONS; ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION; THE CITY OF CHICAGO AND THE VILLAGE OF NORRIDGE; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION; AND ALL ADDENDA THERETO SHALL COVERN THIS WORK.

THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSTABLE MATERIALS CREATED AS A RESULT THEREOF.

THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION IS BASED ON RECORD INFORMATION PROVIDED BY THE INDIVIDUAL UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT J.U.L.I.E. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY COMPANIES' UNDERGROUND FACILITIES.

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 (847) 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 ARM 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 (312) 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 FACILITES 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 THE 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 INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

ALL CONDUIT SHALL BE PLACED IN TRENCH. ALL ROADWAY SURFACES SUCH AS PAVEMENT, SIDEWALK, ETC. SHALL BE REPLACED IN KIND. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "UNDERGROUND CONDUIT, GALVANIZED STEEL" OF THE SIZE SPECIFIED. NO ADDITIONAL COMPENSTATION SHALL BE PROVIDED FOR TRENCH AND BACKFILL OR FOR RESTORATION.

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

TEMPORARY TRAFFIC SIGNAL NOTES

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 12 INCHES (300 MM). TRAFFIC SIGNAL SECTIONS SHALL BE LED WITH EXPANDABLE VIEW, UNLESS OTHERWISE APPROVED BY THE ENGINEER. PEDESTRIAN SIGNAL HEADS SHALL BE LIGHT EMITTING DIODE (LED) PEDESTRIAN COUNTDOWN SIGNAL HEADS EXCEPT WHEN A TEMPORARY TRAFFIC SIGNAL IS INSTALLED AT AN INTERSECTION INTERCONNECTED WITH A RAILROAD GRADE CROSSING. WHEN A TEMPORARY TRAFFIC SIGNAL IS INSTALLED AT AN INTERSECTION INTERCONNECTED WITH A RAILROAD GRADE CROSSING, LIGHT EMITTING DIODE (LED) PEDESTRIAN SIGNAL HEADS SHALL BE FURNISHED. THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH EXTRA CABLE LENGTH 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. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS SHALL HAVE UNINTERRUPTIBLE POWER SUPPLY (UPS). THE UPS CABINET SHALL BE MOUNTED TO THE TEMPORARY TRAFFIC SIGNAL CABINET AND MEET THE REQUIREMENTS OF UNITERRUPTABLE POWER SUPPLY IN DIVISIONS 800 AND 1000 OF THESE SPECIFICATIONS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OEPRATION 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. PEDESTRIAN PUSH BUTTONS SHALL BE PROVIDED FOR ALL PEDESTRIAN SIGNAL HEADS/PHASES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. 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.

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HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @Ndes	QMP
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 MM); 12" (IN 3 LIFTS)	4% @ 70 GYR.	Qc/Qa

NOTES:

1. THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SY/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" 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 SPECIAL PROVISIONS.
3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED - ⚠ 03/03/2014
	DRAWN - JRT	REVISED -
PLOT SCALE = 48.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 3/3/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	2
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

1	2	1	3	5	4

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				HSIP FUNDS						
				90% FEDERAL 5% STATE 5% ADDISON TWP.	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT	100% BENSENVILLE	90% FEDERAL 10% STATE
		URBAN		MS30L,01	MS30L,02	MS30L,03	MS30L,03	MS30L,04	07POL,01	MS30L,05
				0021						
				TRAFFIC SIGNALS						
				IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	97	28	21	22	7	19		
42001300	PROTECTIVE COAT	SQ YD	107	28	24	22	9	24		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	847	238	189	195	61	164		
42400800	DETECTABLE WARNINGS	SQ FT	125	27	34	27	12	25		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	48		13		10	25		
44000600	SIDEWALK REMOVAL	SQ FT	259		76		36	147		
44003100	MEDIAN REMOVAL	SQ FT	32	32						
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	52	16	11	13	6	6		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	48		13		10	25		
60624600	CORRUGATED MEDIAN	SQ FT	10	10						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	1.5	1.5	1.5	1.5	1.5		1.5

CIVILTECH

USER NAME = jrs	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.2000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 1 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	3
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE						
				HSIP FUNDS						
				90% FEDERAL 5% STATE 5% ADDISON TWP 01	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE 02	90% FEDERAL 5% STATE 5% BENSENVILLE 01	90% FEDERAL 5% STATE 5% BENSENVILLE 01	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT 03	100% BENSENVILLE	90% FEDERAL 10% STATE 04
			URBAN	0021						
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS						
				IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
67100100	MOBILIZATION	L SUM	1	0.175	0.175	0.175	0.175	0.175		0.125
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	0.175	0.175	0.175	0.175	0.175		0.125
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.175	0.175	0.175	0.175	0.175		0.125
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.175	0.175	0.175	0.175	0.175		0.125
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.175	0.175	0.175	0.175	0.175		0.125
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	0.5	0.5	0.5	0.5	0.5		0.5
* 72000100	SIGN PANEL - TYPE 1	SQ FT	177	30	30	45	30	42		
* 72000200	SIGN PANEL - TYPE 2	SQ FT	207	70	68	23	23	23		
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	15				15			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	723	235			244	244		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	29		13	16				

* SPECIALTY ITEMS

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 '/ in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 2 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	4
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE						
				HSIP FUNDS						
				90% FEDERAL 5% STATE 5% ADDISON TWP	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT	100% BENSENVILLE	90% FEDERAL 10% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	0021						
				TRAFFIC SIGNALS						
				IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	41					41		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	119		13	16	2	88		
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	5	1	1	1	1	1		
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5218	737	629	536	771	536		2009
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	72	29	5	15	18	5		
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	565	129	100	121	119	96		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	2595	500	476	511	543	565		
81400100	HANDHOLE	EACH	6	1	1		2	2		
81400200	HEAVY-DUTY HANDHOLE	EACH	22	5	4	5	6	2		
81400300	DOUBLE HANDHOLE	EACH	10	2	2	2	2	2		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3				1			2

* SPECIALTY ITEMS

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.2222 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 3 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	5
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				HSIP FUNDS						
				90% FEDERAL 5% STATE 5% ADDISON TWP	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT	100% BENSENVILLE	90% FEDERAL 10% STATE
	URBAN			0021						
				TRAFFIC SIGNALS						
				IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
86400100	TRANSCEIVER - FIBER OPTIC	EACH	5	1	1	1	1	1		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	19423							19423
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2397	242	234	447	998	476		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	5636	256	251	461	1026	490	3152	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	18967	2764	3899	4341	3377	4586		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2771	1374	219		1178			
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	10722	3926	1784	1499	1999	1514		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	321	146	46	29	46	54		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	4244	928	760	828	878	850		
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1				1			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2				2			

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 4 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	6
		CONTRACT NO. 60X35		
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: HSIP FUNDS: 90% FEDERAL 5% STATE 5% ADDISON TWP	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT	100% BENSENVILLE	90% FEDERAL 10% STATE
	URBAN			0021						
				TRAFFIC SIGNALS						
				IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
87700150	STEEL MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1					1		
87700160	STEEL MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	5	2	1	2				
87700170	STEEL MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	3	1			1	1		
87700180	STEEL MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1				1			
87700190	STEEL MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	3		2		1			
87700210	STEEL MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1	1						
87700220	STEEL MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	3			2	1			
87700230	STEEL MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1		1					
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1					1		
87700280	STEEL MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1					1		
87700300	STEEL MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	4	2	1			1		

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.2200 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 5 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	7
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: HSIP FUNDS: 90% FEDERAL 5% STATE 5% ADDISON TWP	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT	100% BENSENVILLE	90% FEDERAL 10% STATE
				0021: TRAFFIC SIGNALS: IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
87700310	STEEL MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1			1				
87700320	STEEL MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1				1			
87700330	STEEL MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1			1				
87700400	STEEL MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1					1		
87700404	STEEL MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1		1					
87700418	STEEL MAST ARM ASSEMBLY AND POLE 68 FT.	EACH	1				1			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	36	8	4	8	12	4		
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	20	4	4	4	4	4		
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	209	44	51	47	47	20		
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	116	30	15	15	15	41		
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	88		21	21	25	21		

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.2020 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 6 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	8
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE						
				HSIP FUNDS						
				90% FEDERAL 5% STATE 5% ADDISON TWP	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT	100% BENSENVILLE	90% FEDERAL 10% STATE
			URBAN	0021						
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS						
				IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
87900200	DRILL EXISTING HANDHOLE	EACH	9							9
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	55	7	15	10	13	10		
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4		1		3			
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1					
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2		1		1			
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1				1			
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6				4	2		
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	80	16	16	16	16	16		
88500100	INDUCTIVE LOOP DETECTOR	EACH	41	13	7	6	9	6		
88600100	DETECTOR LOOP, TYPE I	FOOT	4591	892	818	697	1331	853		
88700200	LIGHT DETECTOR	EACH	3						3	

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
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PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 7 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	9
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				HSIP FUNDS						
				90% FEDERAL 5% STATE 5% ADDISON TWP	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT	100% BENSENVILLE	90% FEDERAL 10% STATE
			URBAN	0021						
				TRAFFIC SIGNALS						
				IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1						1	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	6				4	2		
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	4	1	1	1		1		
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	27	11		8		8		
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	6	2	2	2				
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	6	2	2	2				
89501100	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	3	1		1		1		
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	6	2	1	2		1		
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	12						12	
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	4						4	
89502200	MODIFY EXISTING CONTROLLER	EACH	2			1		1		

CIVILTECH

USER NAME = jrs	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 8 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	10
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE						
				HSIP FUNDS						
				90% FEDERAL 5% STATE 5% ADDISON TWP	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT	100% BENSENVILLE	90% FEDERAL 10% STATE
			URBAN	0021						
				TRAFFIC SIGNALS						
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	34084	1431	1358	1641		1171		28483
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1	1	1	1	1		
89502380	REMOVE EXISTING HANDHOLE	EACH	32	9	8	5	5	5		
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	5	1	1	1	1	1		
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	44	11	11	11		11		
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	3152						3152	
X0325938	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	L SUM	1				1			
X8100105	CONDUIT SPLICE	EACH	4	1	1			2		
** X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2		1		1			
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	5	1	1	1	1	1		
** X8630104	CONTROLLER CABINET, TYPE IV, SPECIAL	EACH	3	1		1		1		

** SUPER P CABINET

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.2000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 9 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	11
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE						
				HSIP FUNDS						
				90% FEDERAL 5% STATE 5% ADDISON TWP	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% WOOD DALE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 5% BENSENVILLE	90% FEDERAL 5% STATE 2.5% BENSENVILLE 2.5% CENTERPOINT	100% BENSENVILLE	90% FEDERAL 10% STATE
			URBAN	0021						
				TRAFFIC SIGNALS						
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	IL ROUTE 83 AT THIRD AVENUE/ OAK MEADOWS DRIVE	IL ROUTE 83 AT GROVE AVENUE/ SHERWOOD DRIVE	IL ROUTE 83 AT HILLSIDE DRIVE	IL ROUTE 83 AT FOSTER AVENUE	IL ROUTE 83 AT MARK STREET	EM. VEHICLE PREEMPTION	INTERCONNECT
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	19561							19561
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	26			26	51		
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1							1
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	1	1	1		1		
*** Z0076600	TRAINEES	HOURS	500	85 01	85 02	85 03	85 03	85 04		75 05
*** Z0076604	TRAINEES-TRAINING PROGRAM GRADUATE	HOUR	500	85	85	85	85	85		75

*** CONSTRUCTION CODE 0042

Rev.

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.2000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

NO SCALE | SHEET NO. 10 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	12
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		RR	RR
COMMUNICATIONS CABINET	R CC	E C C	C C
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTABLE 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		
UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)			
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. "RB" INDICATES REFLECTIVE BACKPLATE		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)		1	1

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, MM12F SM24F		36F	36F
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	RPF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
QUEUE DETECTOR		Q	Q
PREFORMED QUEUE DETECTOR		PQ	PQ
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

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

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAG/BCK	REVISED - DAG 1-1-14	
		DRAWN - BCK	REVISED -	
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -	
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 1 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	13
	TS-05	CONTRACT NO. 60X35		
FED. ROAD DIST. NO. 1	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.

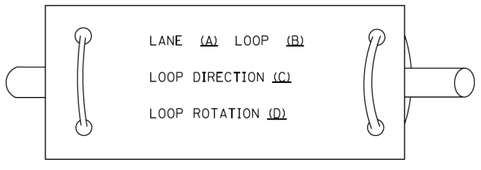
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

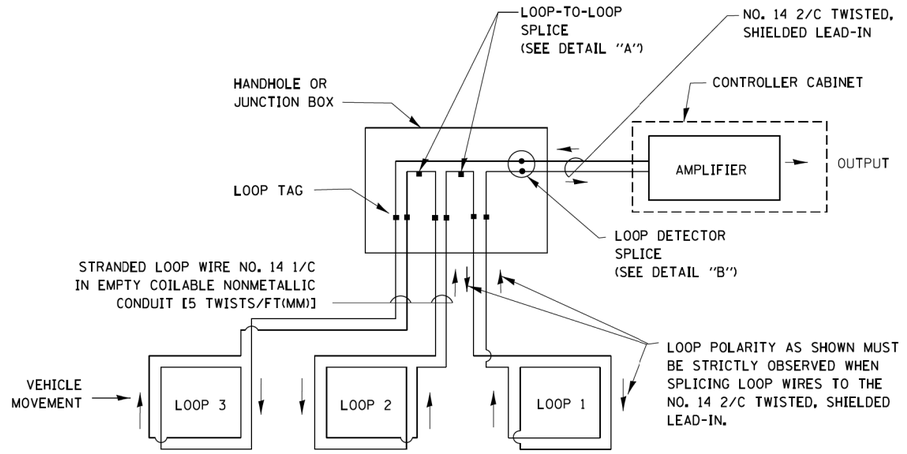


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

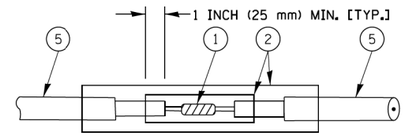
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

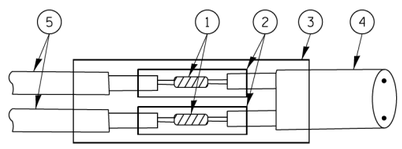


DETECTOR LOOP WIRING SCHEMATIC

- 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.

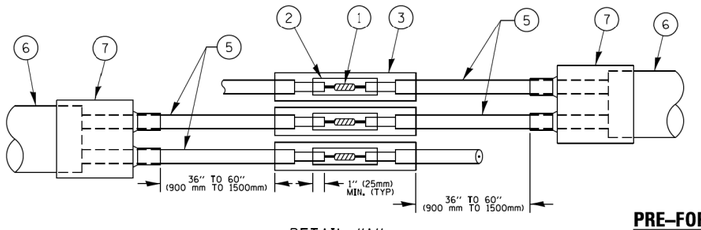


DETAIL "A"
LOOP-TO-LOOP SPLICE



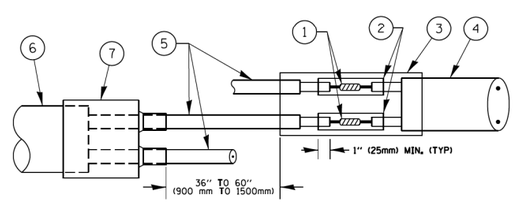
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(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.

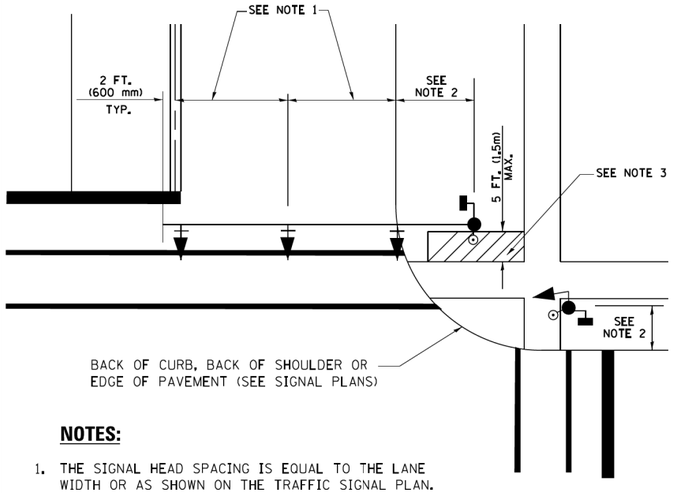
(6) PRE-FORMED LOOP

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

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BCK	REVISED -					344	2013-063TS	DUPAGE	68	14
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -						TS-05	CONTRACT NO. 60X35		
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

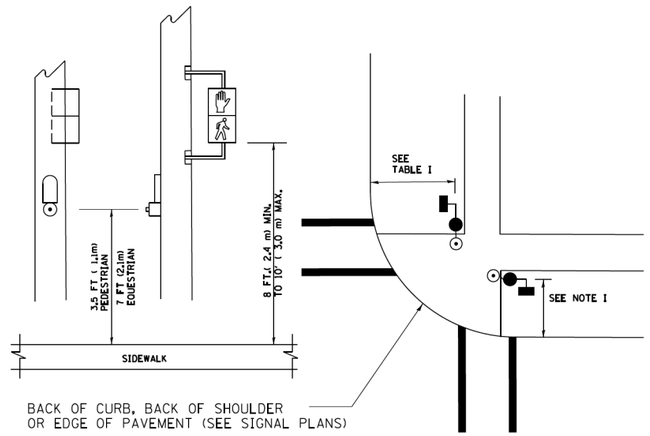
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

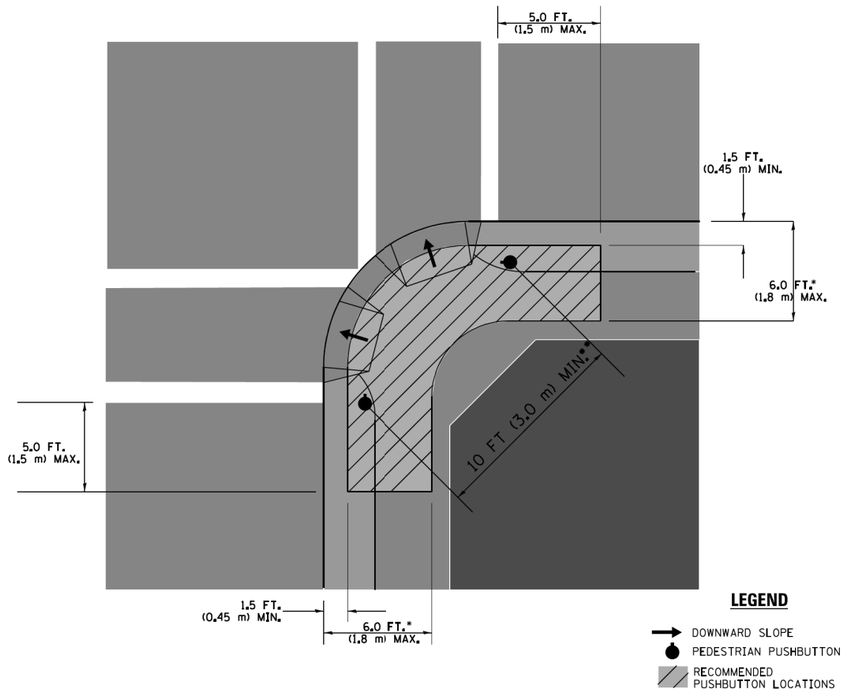
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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 TOTHE 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.

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		DRAWN - BCK	REVISED -
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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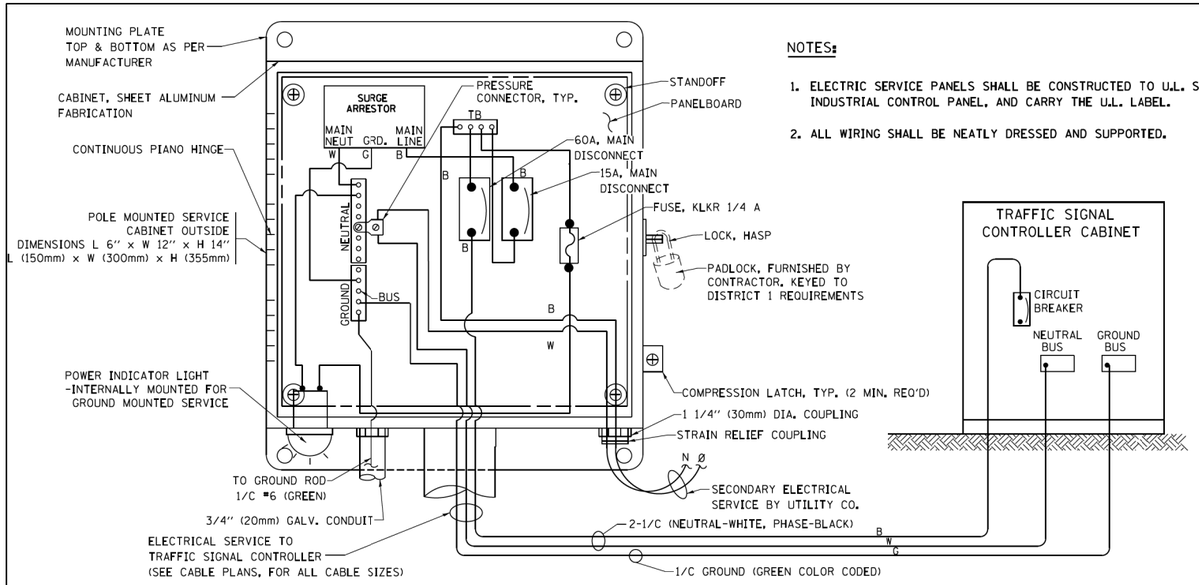
	TS-05	CONTRACT NO. 60X35		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



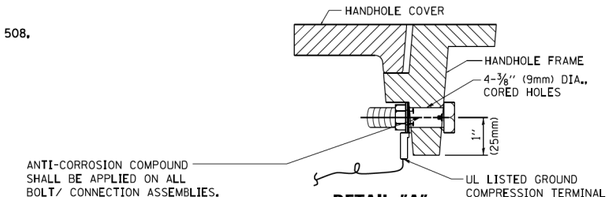
NOTES:

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.

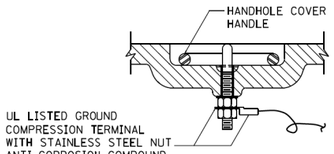
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

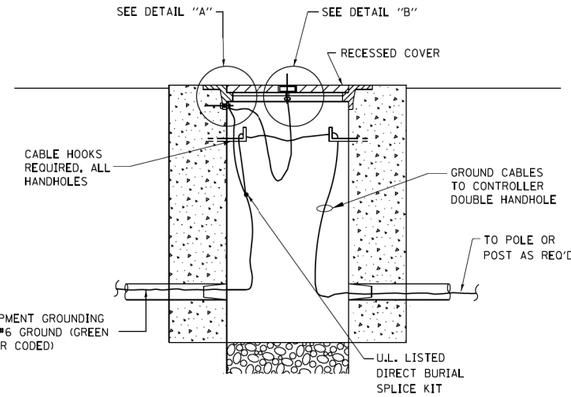


DETAIL "B"

NOTES:

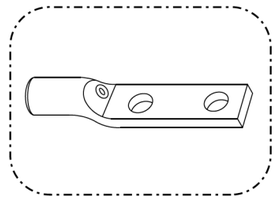
GROUNDING SYSTEM

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)

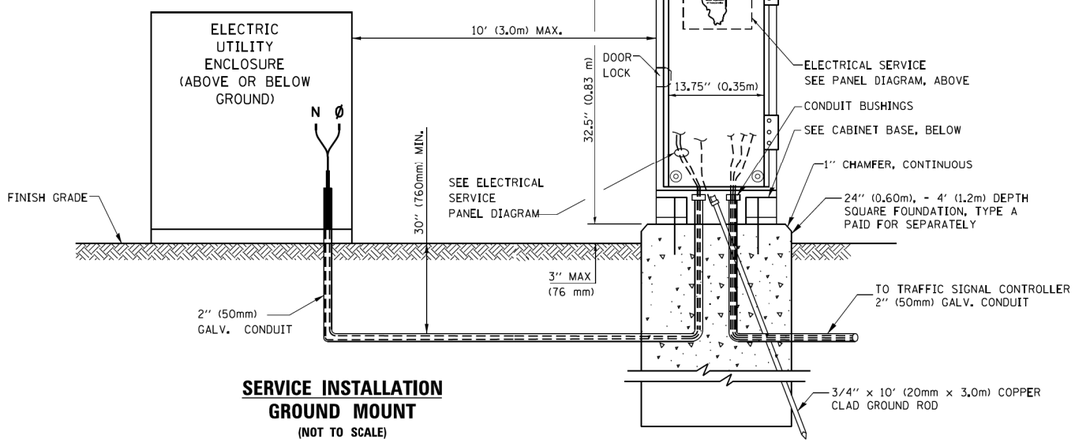


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

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

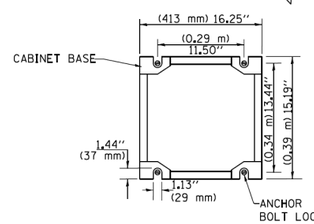
NOTES:

- 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.



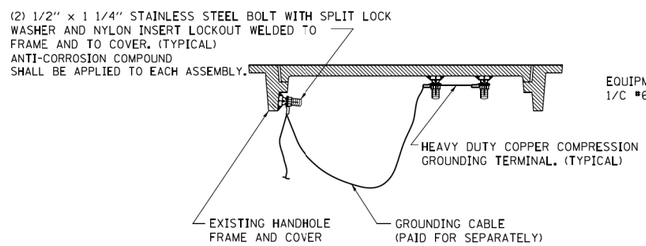
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



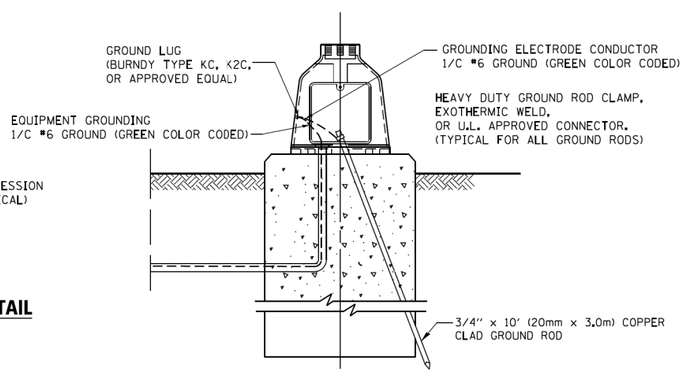
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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	PLOT SCALE = 50.0000 ' / in.	DRAWN - BCK	REVISED -
	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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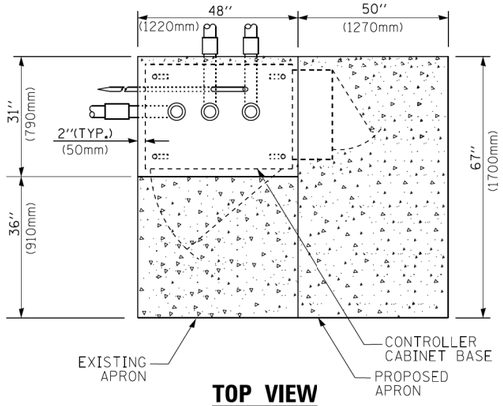
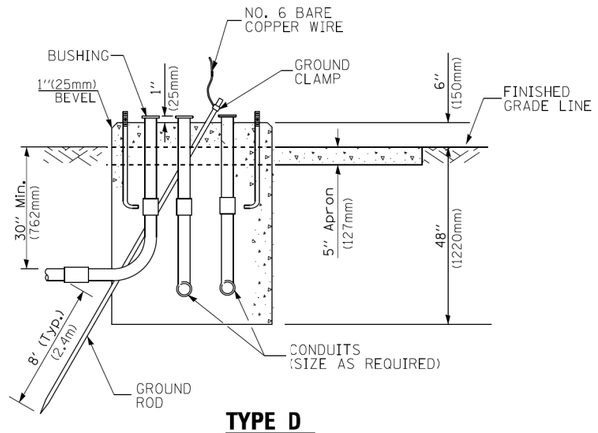
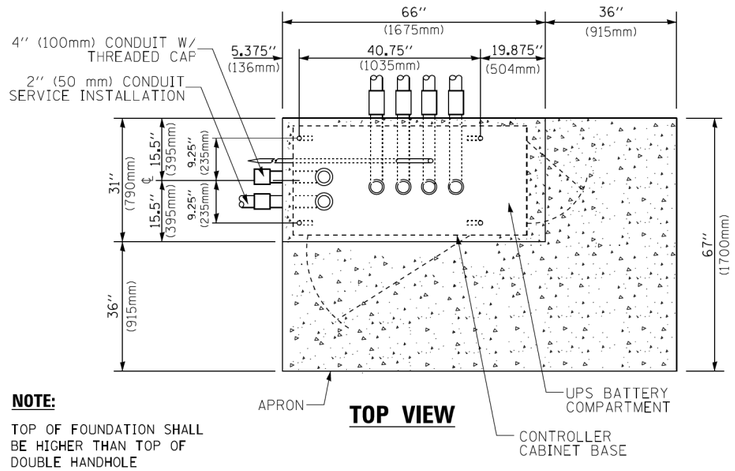
	TS-05	CONTRACT NO. 60X35		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TOP VIEW



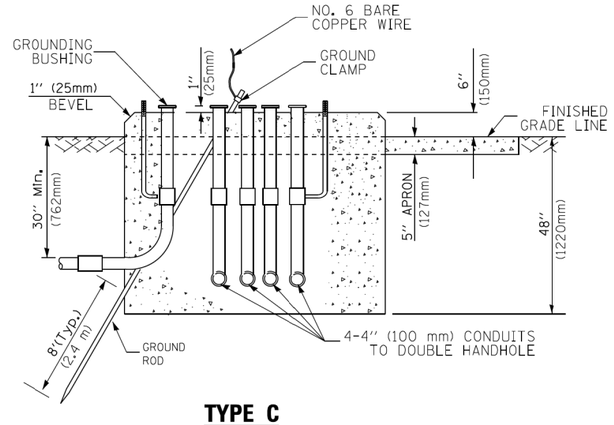
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



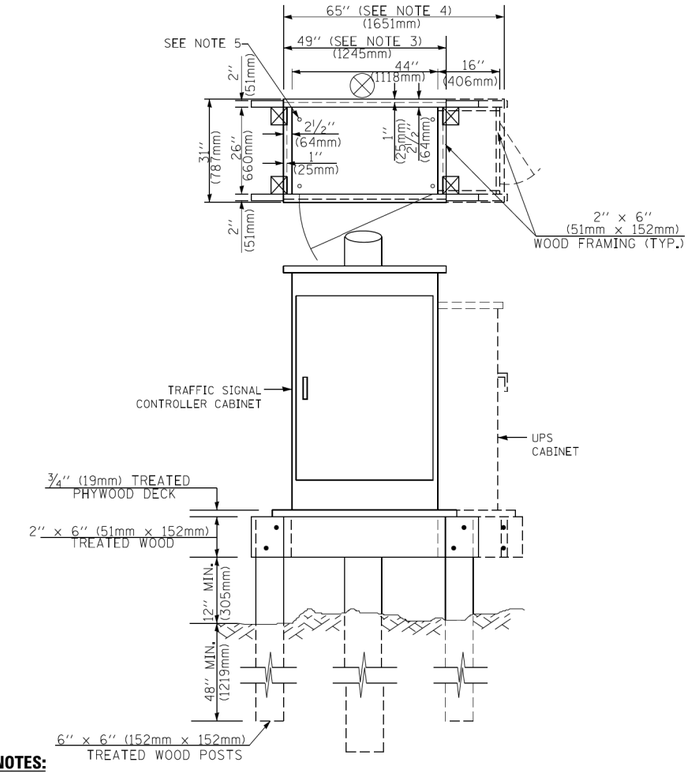
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



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

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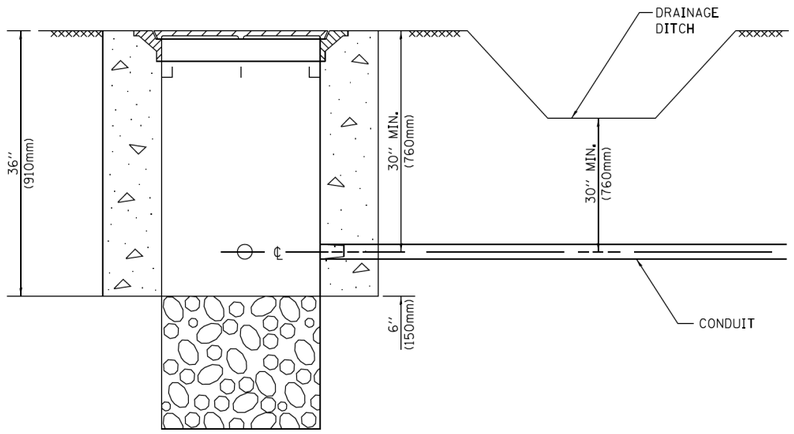
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	17
	TS-05	CONTRACT NO. 60X35		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

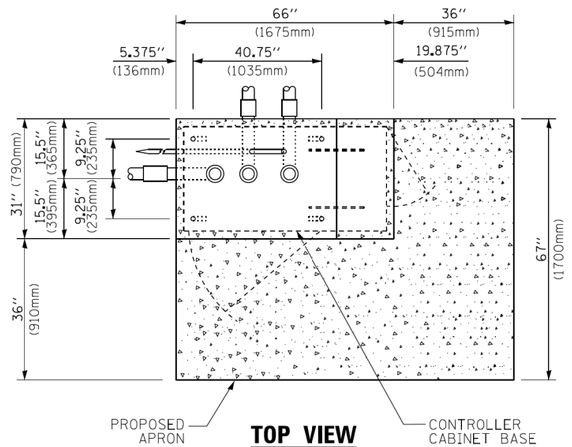


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

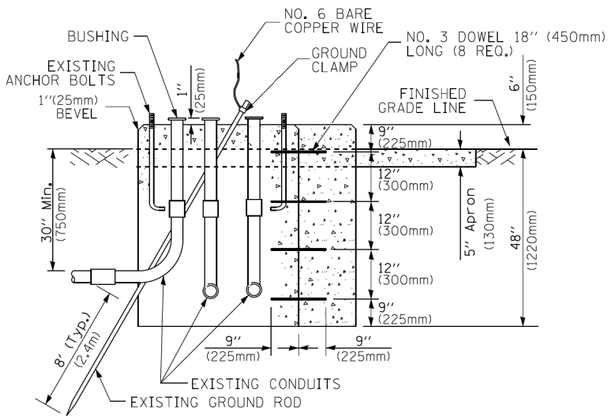
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



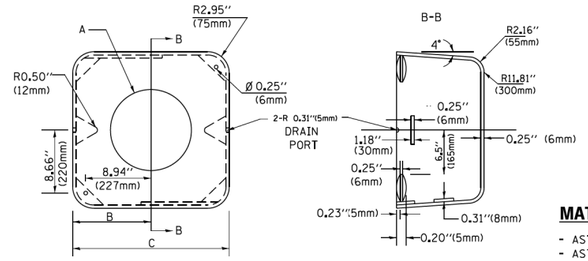
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



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)

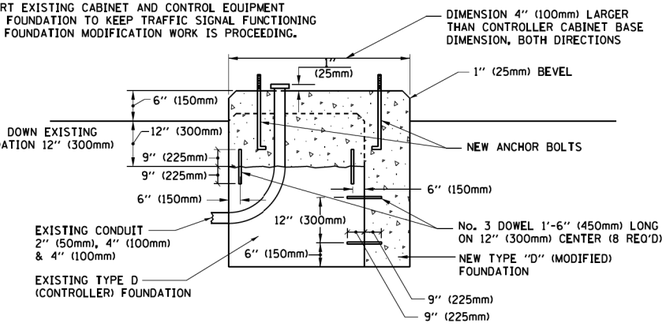
SHROUD

NOTES:

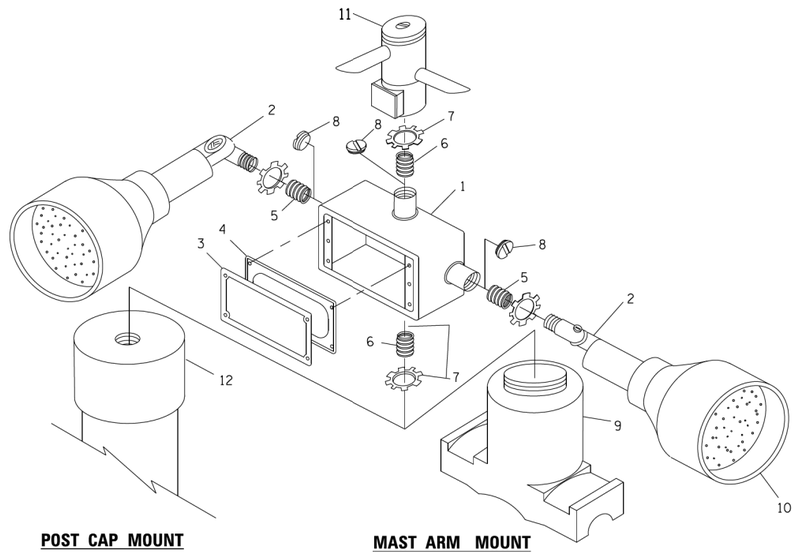
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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



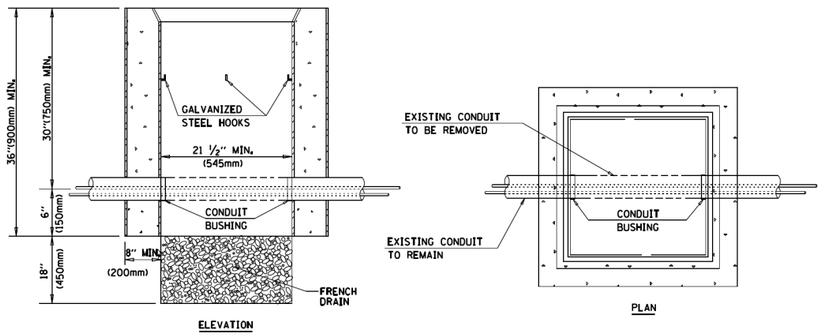
POST CAP MOUNT **MAST ARM MOUNT**

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 3/4 "(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.

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



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 INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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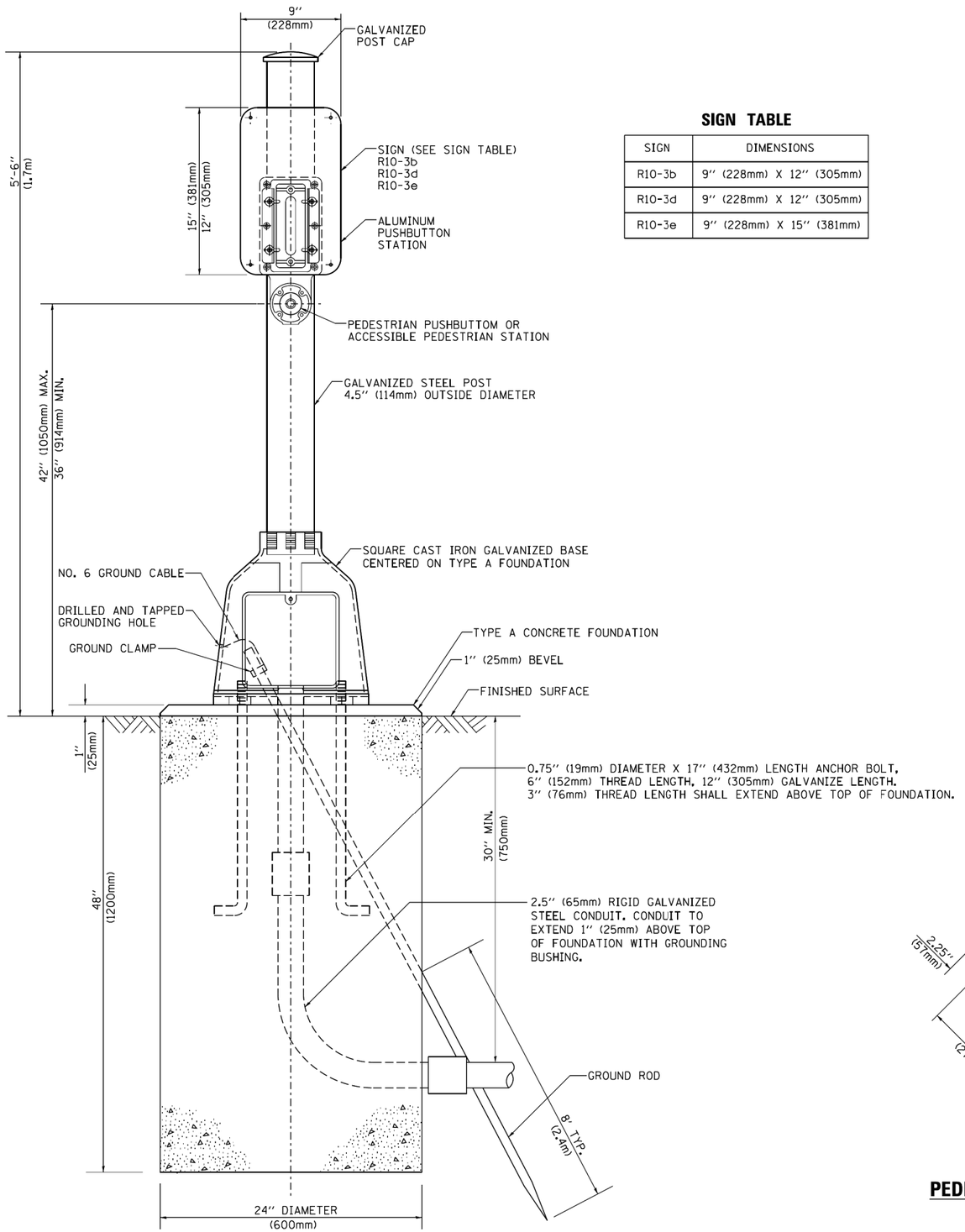
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

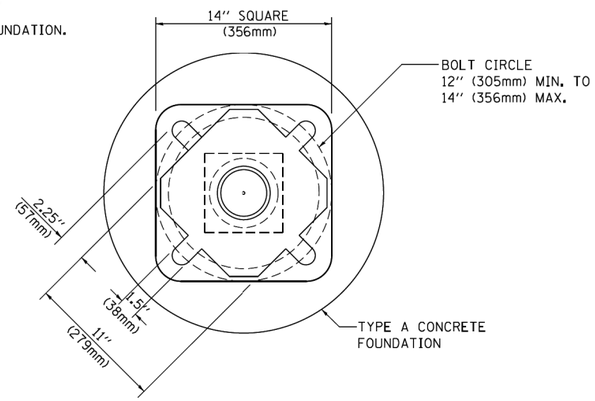
SCALE: NONE | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	18
	TS-05	CONTRACT NO. 60X35		
FED. ROAD DIST. NO. 1	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

PEDESTRIAN PUSH BUTTON POST, TYPE A

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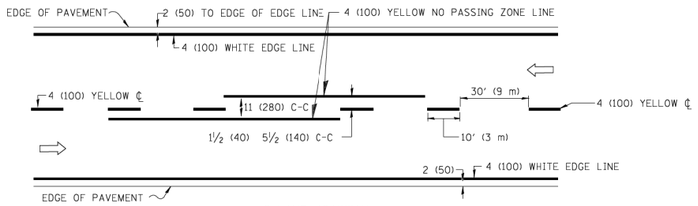
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

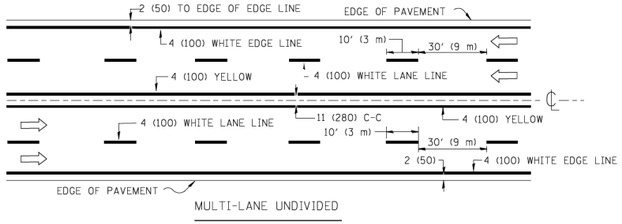
SCALE: NONE | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	19
	TS-05	CONTRACT NO. 60X35		

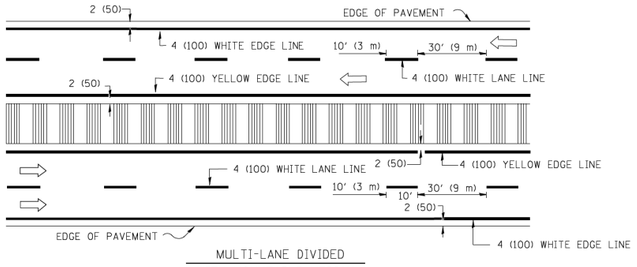
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



2-LANE ROADWAY



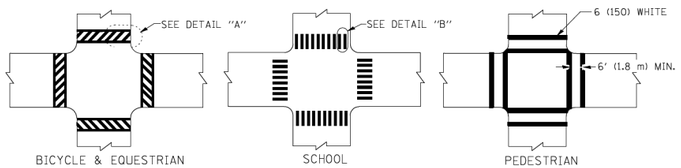
MULTI-LANE UNDIVIDED



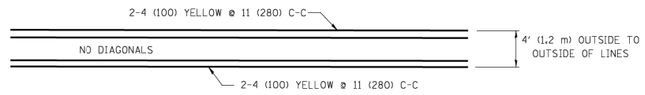
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

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

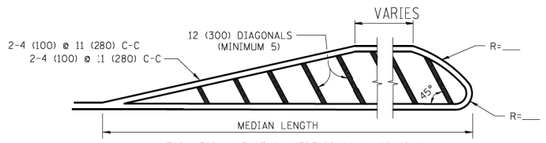
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



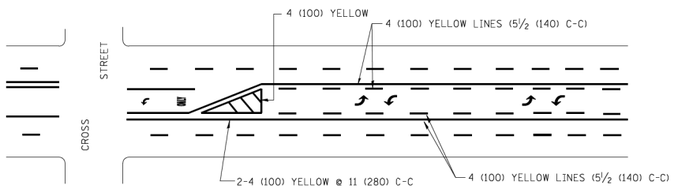
4' (1.2 m) WIDE MEDIANS ONLY



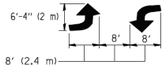
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

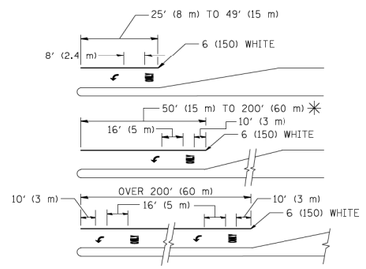


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

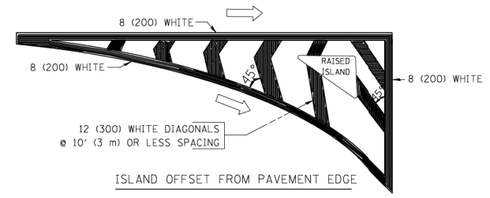


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

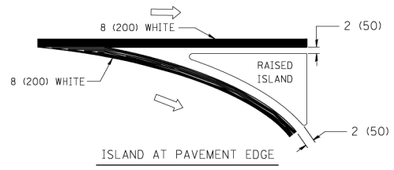
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

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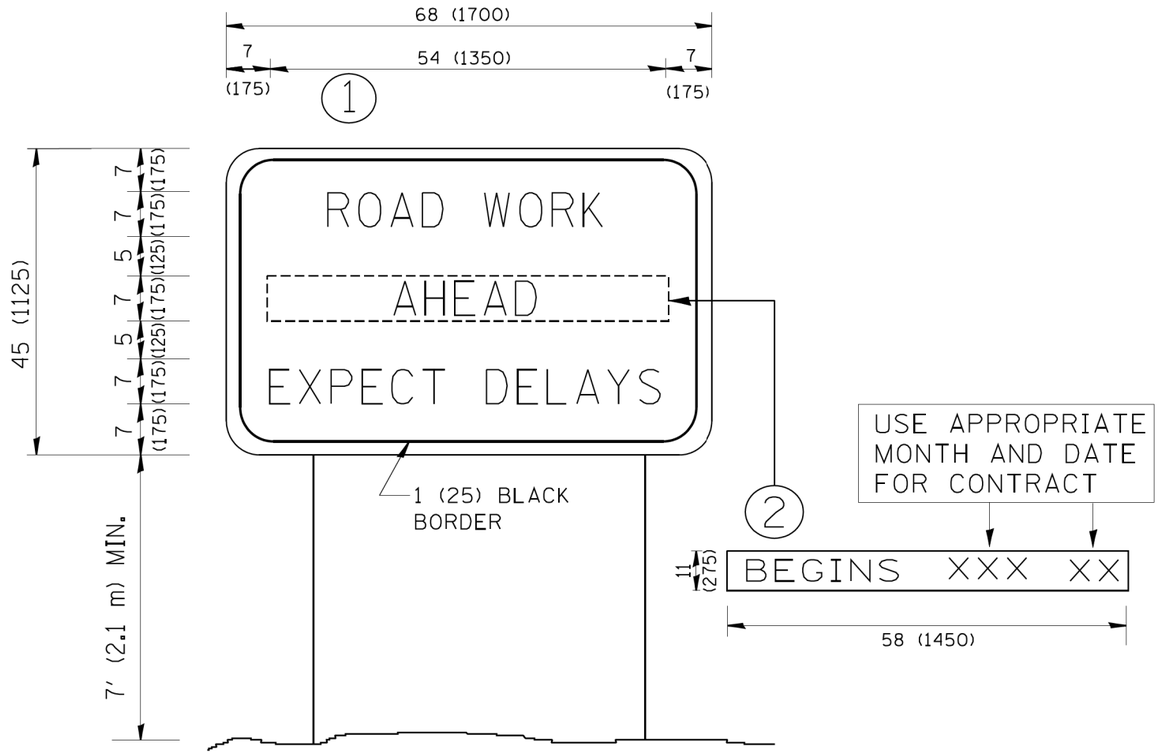
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

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.
344	2013-063TS	DUPAGE	68	20
	TC-13	CONTRACT NO. 60X35		
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.
344	2013-063TS	DUPAGE	68	21
	TC-22	CONTRACT NO. 60X35		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TEMPORARY TRAFFIC SIGNAL NOTES

1. 59' OF THIS CONDUIT RUN SHALL BE CAPPED AND MAINTAINED FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION. EXISTING CABLES SHALL BE REMOVED FROM THE CONDUIT.
2. 64' OF THIS CONDUIT RUN SHALL BE CAPPED AND MAINTAINED FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION. EXISTING CABLES SHALL BE REMOVED FROM THE CONDUIT.
3. THESE SIGNAL POSTS SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION.

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

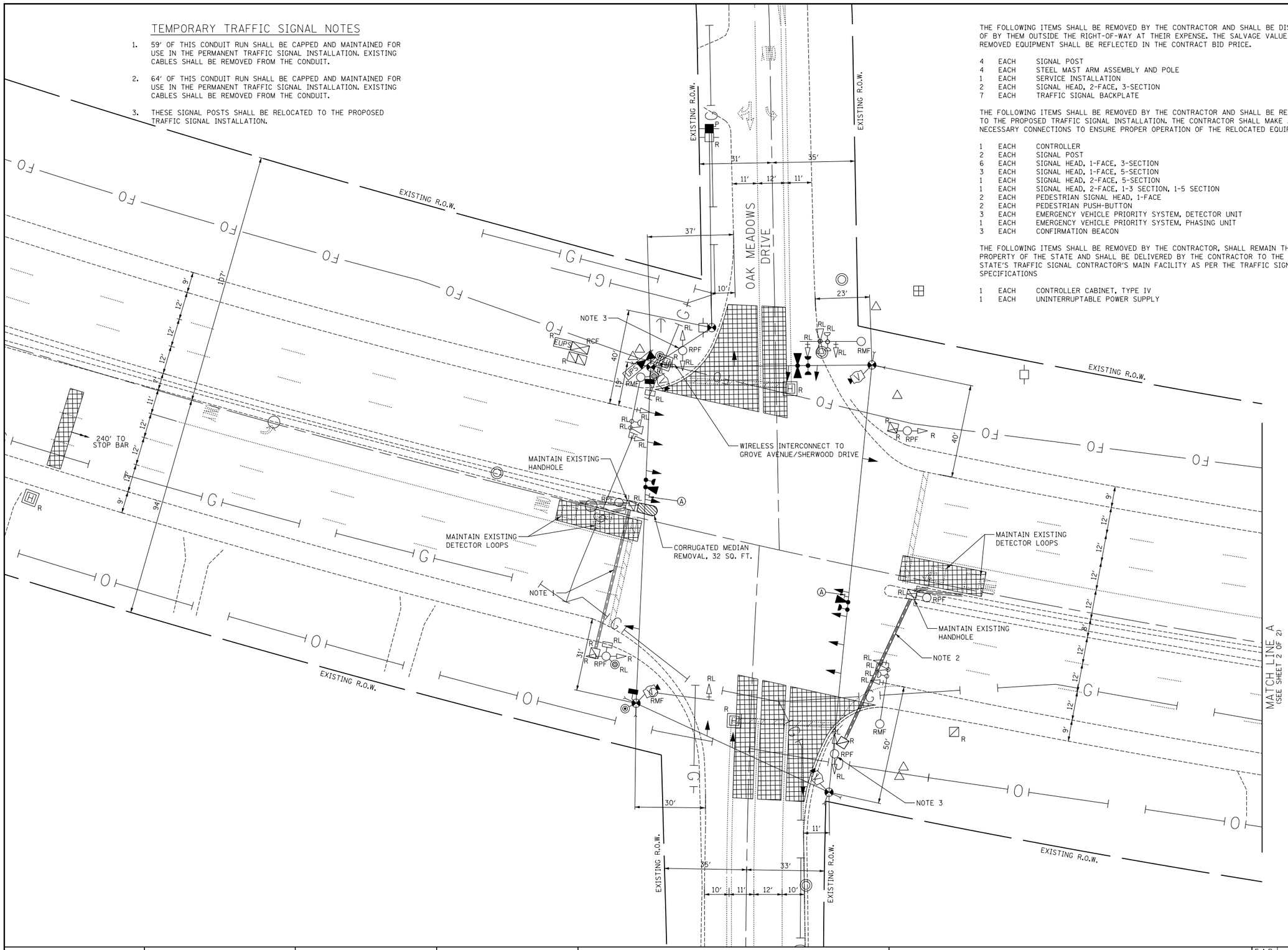
4	EACH	SIGNAL POST
4	EACH	STEEL MAST ARM ASSEMBLY AND POLE
1	EACH	SERVICE INSTALLATION
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
7	EACH	TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO ENSURE PROPER OPERATION OF THE RELOCATED EQUIPMENT.

1	EACH	CONTROLLER
2	EACH	SIGNAL POST
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
3	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN PUSH-BUTTON
3	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
3	EACH	CONFIRMATION BEACON

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS

1	EACH	CONTROLLER CABINET, TYPE IV
1	EACH	UNINTERRUPTABLE POWER SUPPLY



TS# 545

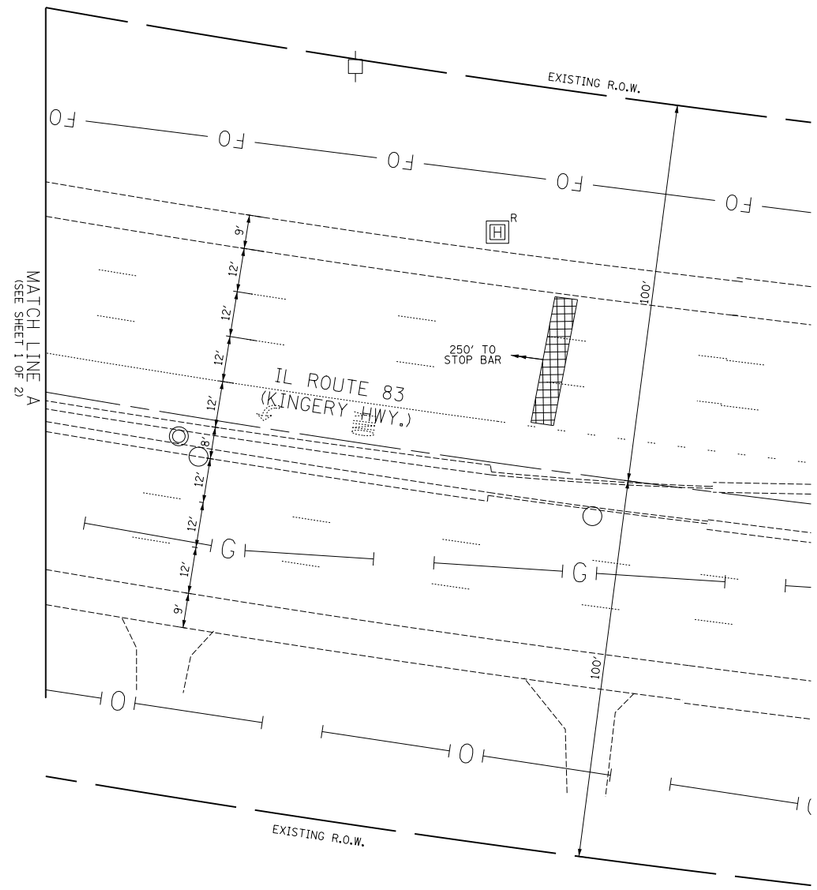
CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
IL ROUTE 83 (KINGERY HWY.) AT THIRD AVE./OAK MEADOWS DR.

SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

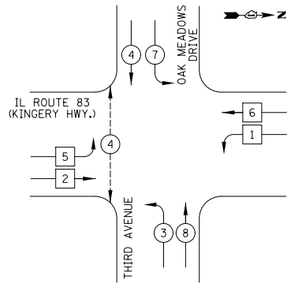
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	22
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			



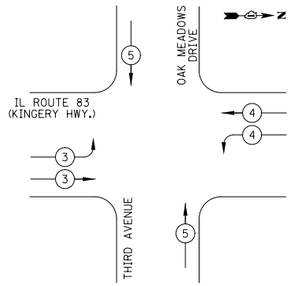
TS# 545

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN IL ROUTE 83 (KINGERY HWY.) AT THIRD AVE./OAK MEADOWS DR.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JRT	REVISED -			344	2013-063TS	DUPAGE	68	23
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -					CONTRACT NO. 60X35		
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -		SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



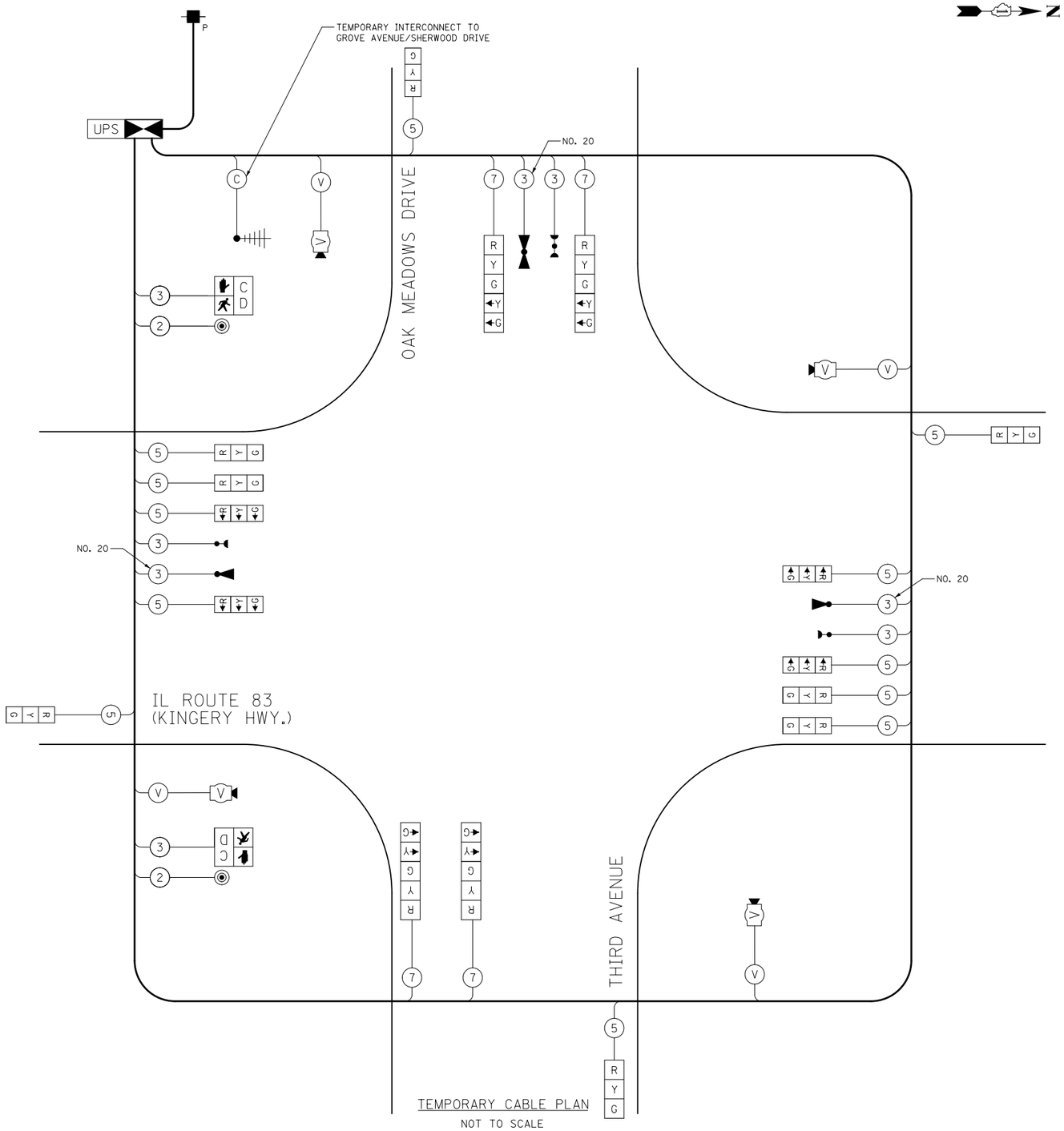
TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	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	10
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
FLASHER				0.50	
				TOTAL =	606

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED



TEMPORARY CABLE PLAN

NOT TO SCALE

TS# 545

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

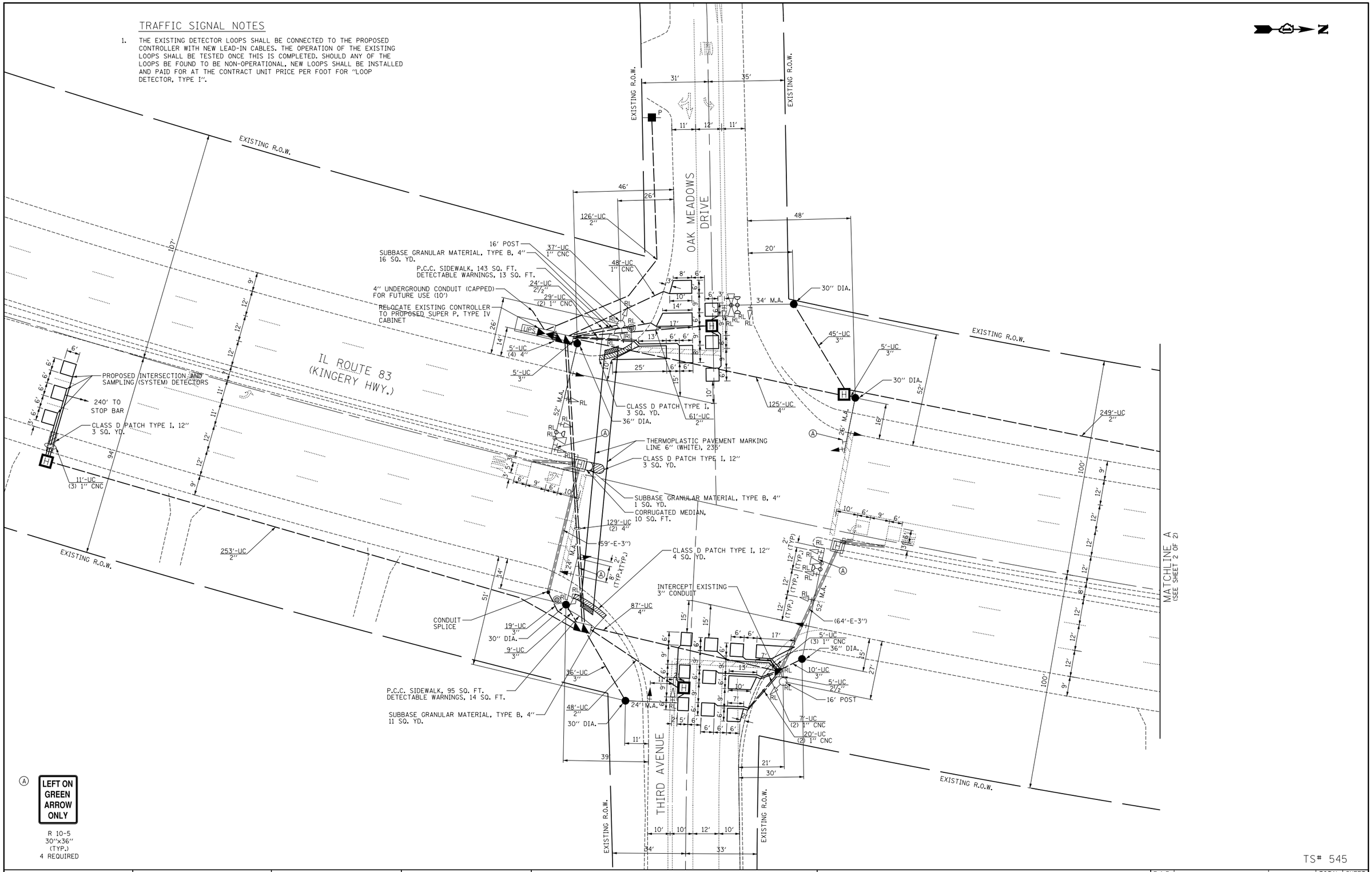
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 83 (KINGERY HWY.) AT THIRD AVE./OAK MEADOWS DR.

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	24
		CONTRACT NO. 60X35		
		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL NOTES

1. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL BE TESTED ONCE THIS IS COMPLETED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".



Ⓐ **LEFT ON GREEN ARROW ONLY**

R 10-5
30"x36"
(TYP.)
4 REQUIRED

TS# 545

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

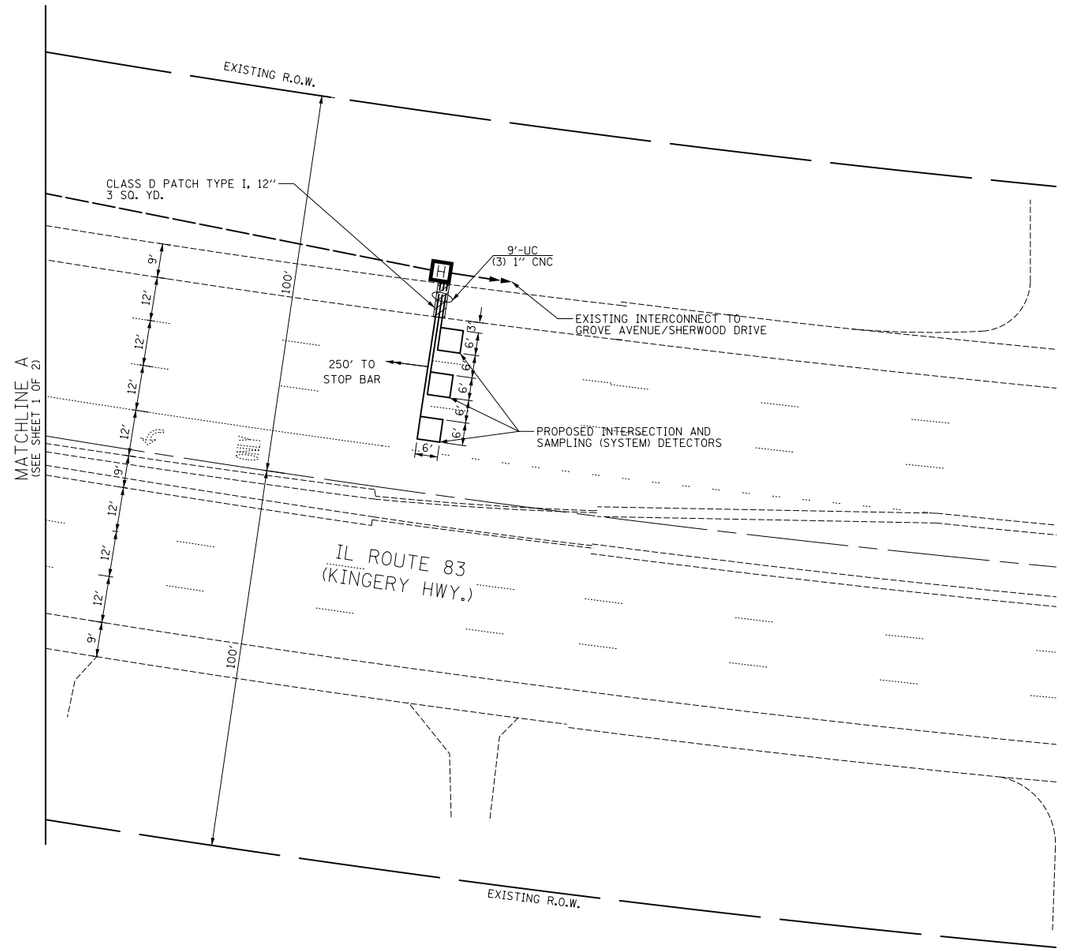
CIVILTECH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 83 (KINGERY HWY.) AT THIRD AVE./OAK MEADOWS DR.

SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	25
		CONTRACT NO. 60X35		
		ILLINOIS FED. AID PROJECT		



TS# 545

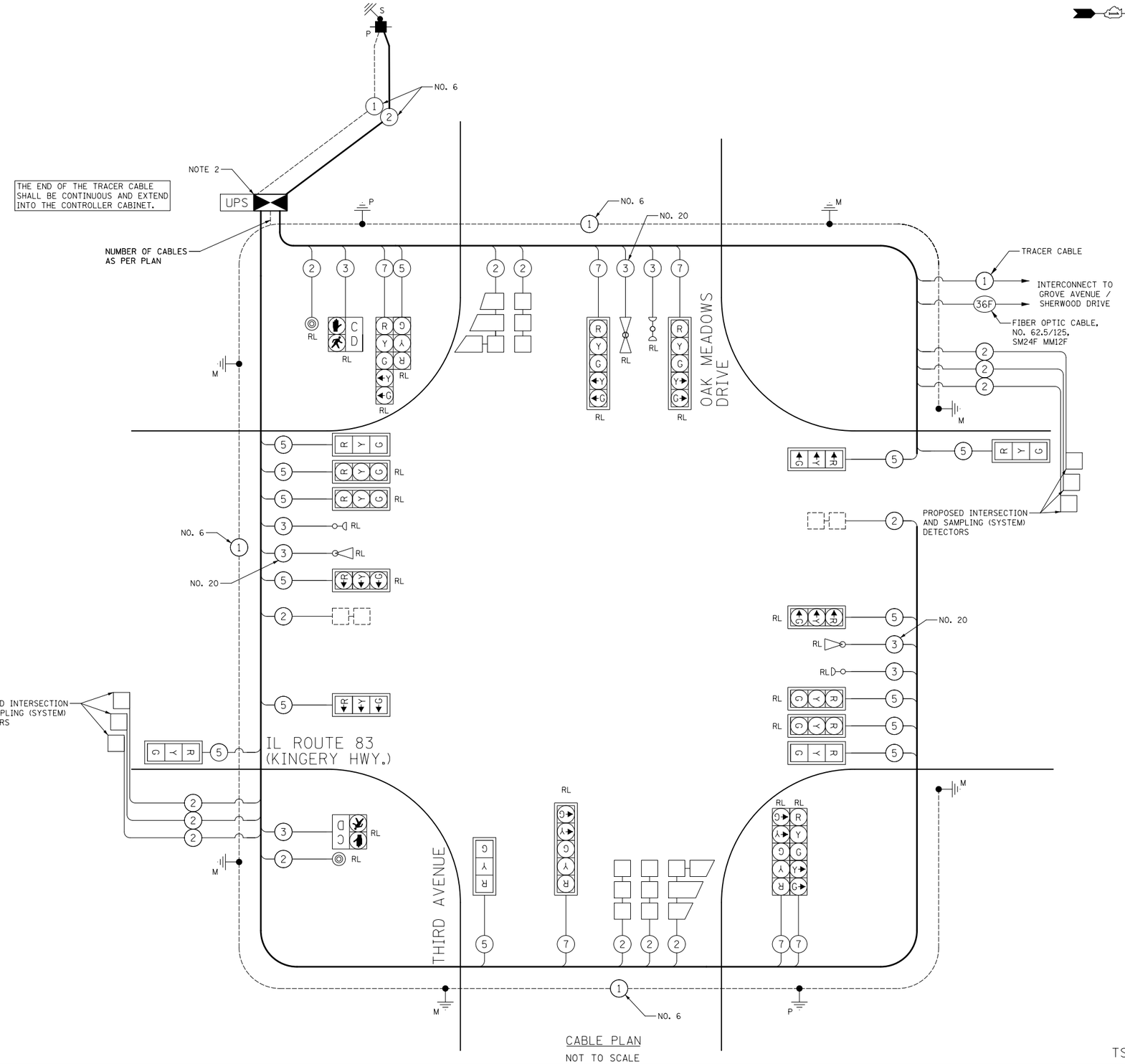
CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TRAFFIC SIGNAL MODERNIZATION PLAN**
		DRAWN - JRT	REVISED -		**IL ROUTE 83 (KINGERY HWY.) AT THIRD AVE./OAK MEADOWS DR.**
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -		
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -		SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	26
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

CABLE PLAN NOTES

1. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH INSTALLATION OF NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL THEN BE TESTED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".

2. THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE RELOCATED FROM THE EXISTING CONTROLLER CABINET TO THE PROPOSED SUPER "P", TYPE IV CABINET.



CABLE PLAN
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
ARROW	12		12	0.10	14
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
				TOTAL =	534

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED

TS# 545

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
IL ROUTE 83 (KINGERY HWY.) AT THIRD AVE./OAK MEADOWS DR.

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	27
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

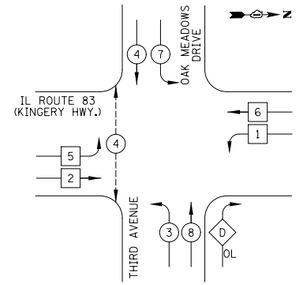
SCHEDULE OF QUANTITIES

	PAY ITEM	UNIT	QNTY.
	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	28
	PROTECTIVE COAT	SQ YD	28
	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	238
	DETECTABLE WARNINGS	SQ FT	27
	MEDIAN REMOVAL	SQ FT	32
	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	16
	CORRUGATED MEDIAN	SQ FT	10
	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
	CHANGEABLE MESSAGE SIGN	CAL MO	1
	SIGN PANEL - TYPE 1	SQ FT	30
	SIGN PANEL - TYPE 2	SQ FT	70
	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	235
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	737
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	29
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	129
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	500
	HANDHOLE	EACH	1
	HEAVY-DUTY HANDHOLE	EACH	5
	DOUBLE HANDHOLE	EACH	2
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	242
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	952
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2764
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1374
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3926
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	146
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	928
	STEEL MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	2
	CONCRETE FOUNDATION, TYPE A	FOOT	8
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	44
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16
	INDUCTIVE LOOP DETECTOR	EACH	13
	DETECTOR LOOP, TYPE I	FOOT	892
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	RELOCATE EXISTING SIGNAL HEAD	EACH	11
	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1
	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1431
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	9
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	11
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	696
	CONDUIT SPLICE	EACH	1
	UNINTERRUPTABLE POWER SUPPLY SPECIAL	EACH	1
**	CONTROLLER CABINET, TYPE IV, SPECIAL	EACH	1
	TEMPORARY INFORMATION SIGNING	SQ FT	26
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
	TRAINEES	HOURS	170

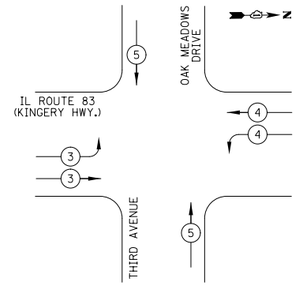
* 100% COST TO THE VILLAGE OF BENSENVILLE

** SUPER P CABINET

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

TS# 545

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES IL ROUTE 83 (KINGERY HWY.) AT THIRD AVE./OAK MEADOWS DR.
		DRAWN - JRT	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -		NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	28
		CONTRACT NO. 60X35		
		ILLINOIS FED. AID PROJECT		

TEMPORARY TRAFFIC SIGNAL NOTES

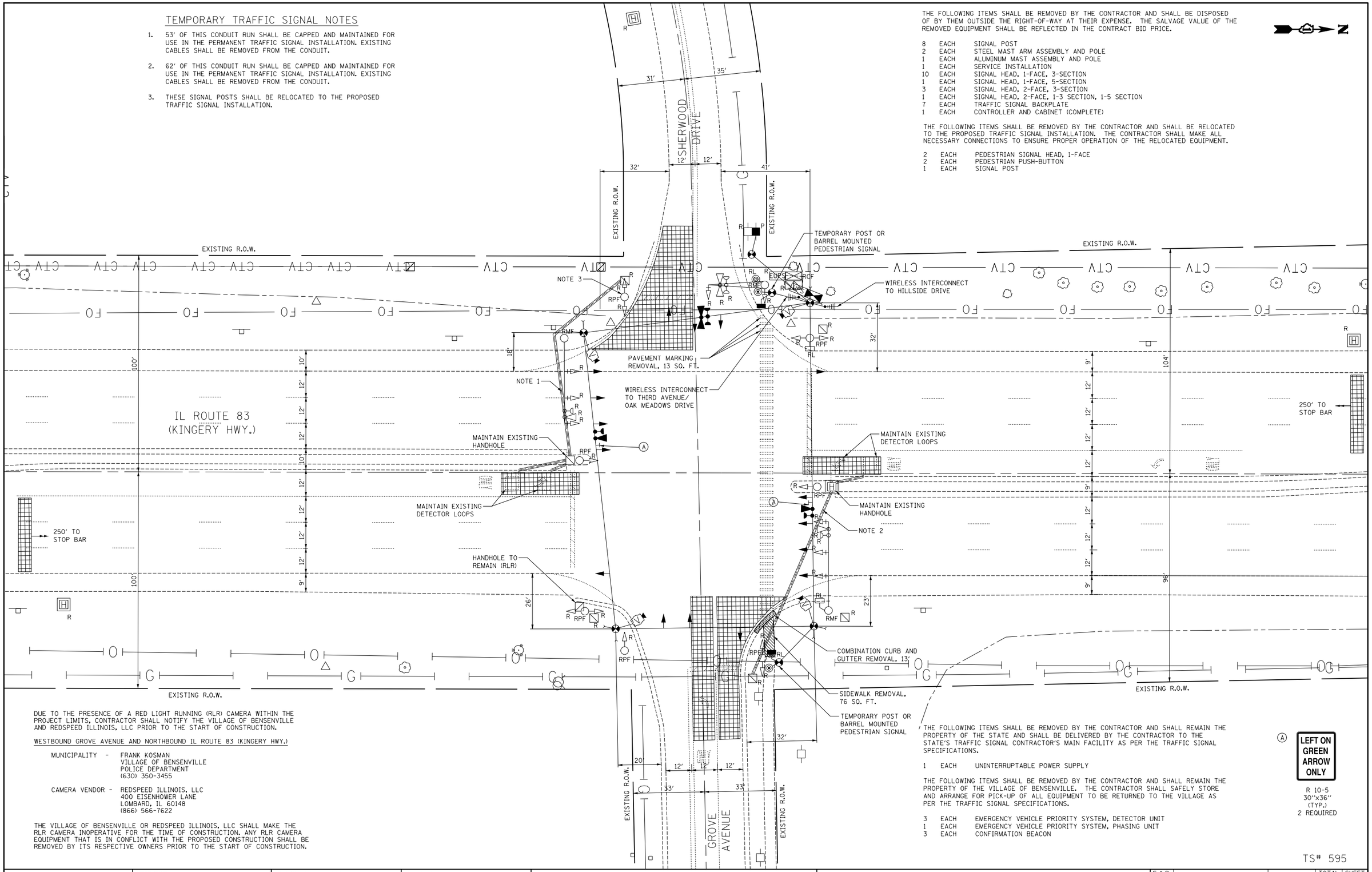
1. 53′ OF THIS CONDUIT RUN SHALL BE CAPPED AND MAINTAINED FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION. EXISTING CABLES SHALL BE REMOVED FROM THE CONDUIT.
2. 62′ OF THIS CONDUIT RUN SHALL BE CAPPED AND MAINTAINED FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION. EXISTING CABLES SHALL BE REMOVED FROM THE CONDUIT.
3. THESE SIGNAL POSTS SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION.

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

8	EACH	SIGNAL POST
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
1	EACH	ALUMINUM MAST ASSEMBLY AND POLE
1	EACH	SERVICE INSTALLATION
10	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
3	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
7	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	CONTROLLER AND CABINET (COMPLETE)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO ENSURE PROPER OPERATION OF THE RELOCATED EQUIPMENT.

2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SIGNAL POST



DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF BENSENVILLE AND REDSPEED ILLINOIS, LLC PRIOR TO THE START OF CONSTRUCTION.

WESTBOUND GROVE AVENUE AND NORTHBOUND IL ROUTE 83 (KINGERY HWY.)

MUNICIPALITY - FRANK KOSMAN
VILLAGE OF BENSENVILLE
POLICE DEPARTMENT
(630) 350-3455

CAMERA VENDOR - REDSPEED ILLINOIS, LLC
400 EISENHOWER LANE
LOMBARD, IL 60148
(866) 566-7622

THE VILLAGE OF BENSENVILLE OR REDSPEED ILLINOIS, LLC SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1	EACH	UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF BENSENVILLE. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK-UP OF ALL EQUIPMENT TO BE RETURNED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

3	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
3	EACH	CONFIRMATION BEACON

(A) LEFT ON GREEN ARROW ONLY
R 10-5
30″x36″
(TYP.)
2 REQUIRED

TS# 595

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ′ / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -	

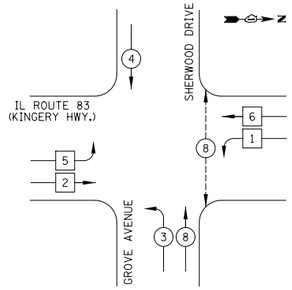
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
IL ROUTE 83 (KINGERY HWY.) AT GROVE AVENUE /SHERWOOD DRIVE

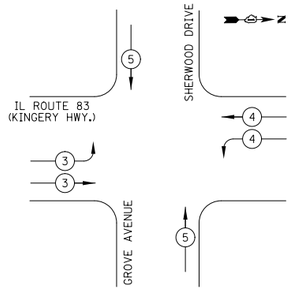
SCALE: 1″ = 20′ | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	29
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

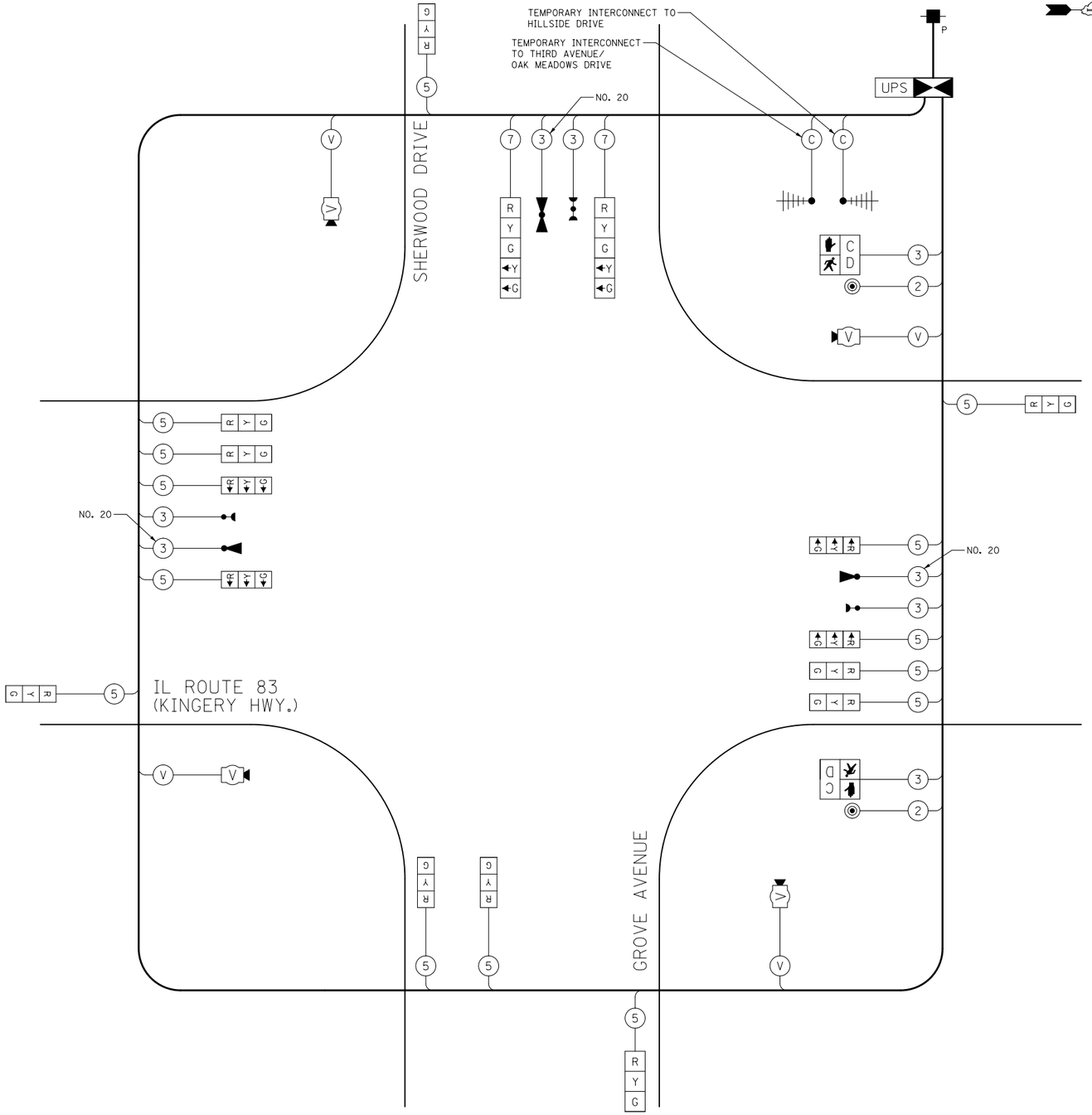
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	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	4		12	0.10	5
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
FLASHER				0.50	
				TOTAL =	541

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED



TEMPORARY CABLE PLAN

NOT TO SCALE

TS# 595

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

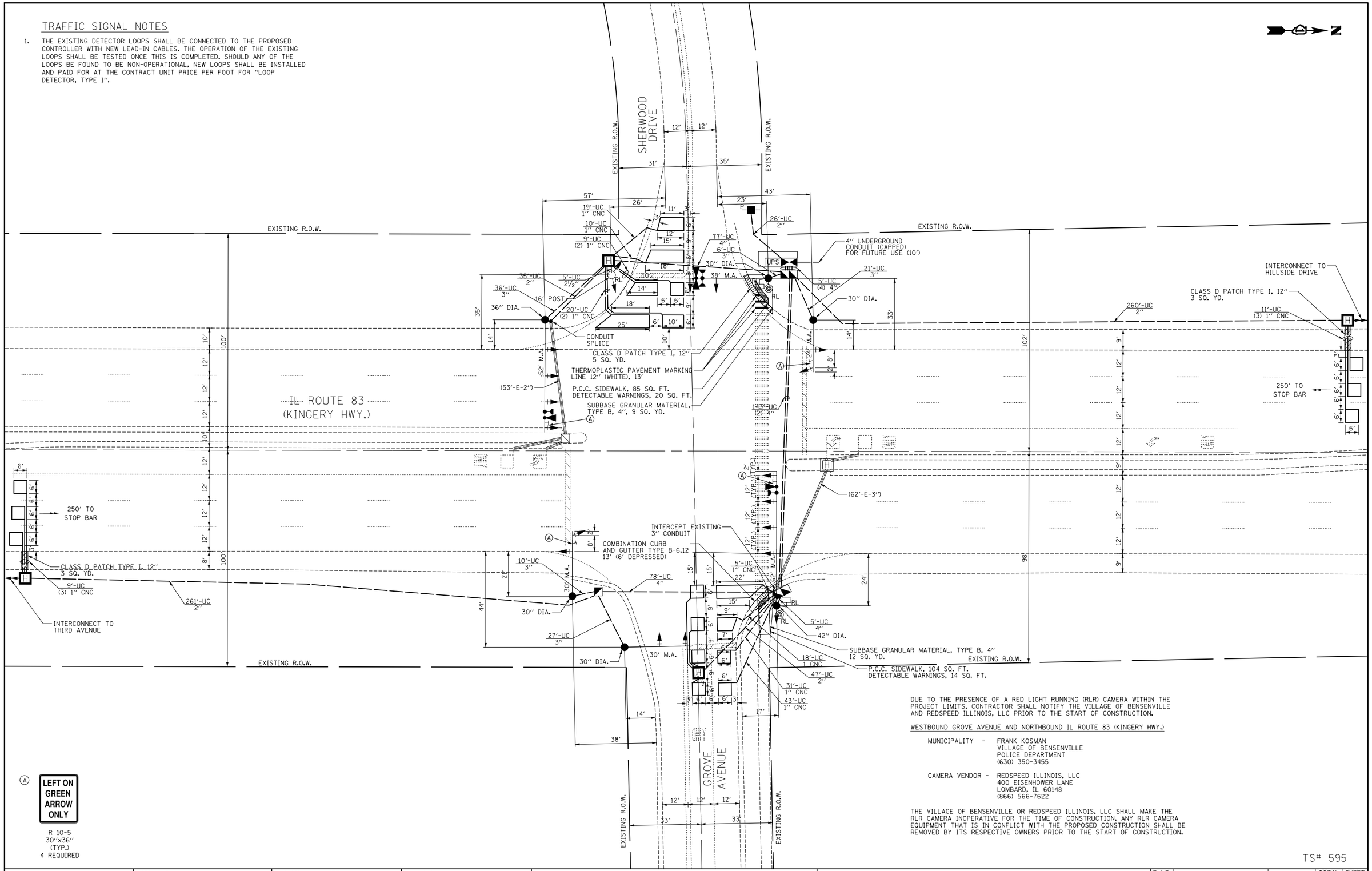
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 83 (KINGERY HWY.) AT GROVE AVENUE /SHERWOOD DRIVE

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	30
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL NOTES

1. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL BE TESTED ONCE THIS IS COMPLETED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".



DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF BENSENVILLE AND REDSPEED ILLINOIS, LLC PRIOR TO THE START OF CONSTRUCTION.

WESTBOUND GROVE AVENUE AND NORTHBOUND IL ROUTE 83 (KINGERY HWY.)

MUNICIPALITY - FRANK KOSMAN
VILLAGE OF BENSENVILLE
POLICE DEPARTMENT
(630) 350-3455

CAMERA VENDOR - REDSPEED ILLINOIS, LLC
400 EISENHOWER LANE
LOMBARD, IL 60148
(866) 566-7622

THE VILLAGE OF BENSENVILLE OR REDSPEED ILLINOIS, LLC SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

TS# 595

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

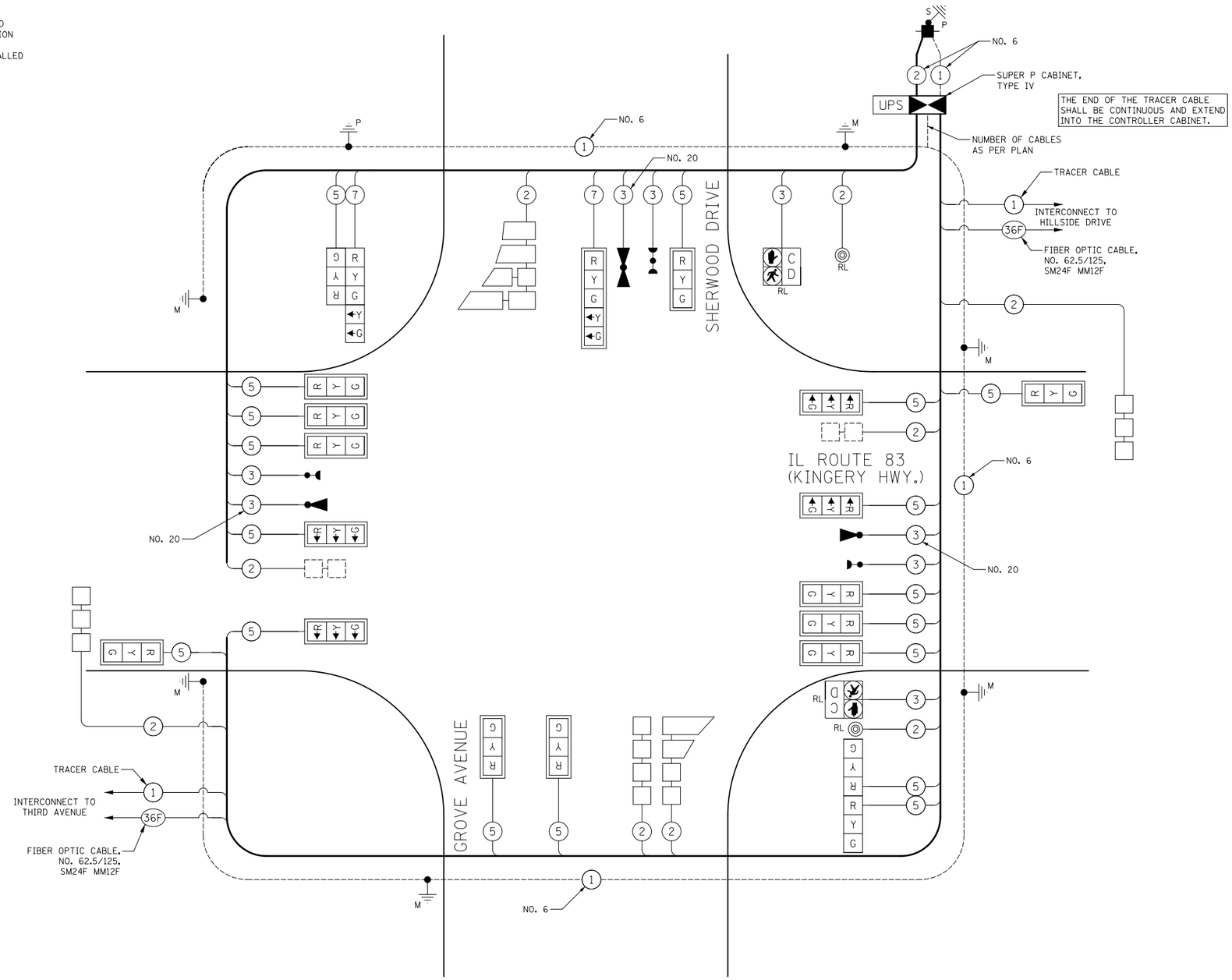
TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 83 (KINGERY HWY.) AT GROVE AVENUE /SHERWOOD DRIVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	31
		CONTRACT NO. 60X35		
		ILLINOIS FED. AID PROJECT		

CABLE PLAN NOTES

1. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH INSTALLATION OF NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL THEN BE TESTED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".



CABLE PLAN
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
ARROW	4		12	0.10	5
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
				TOTAL =	525

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED

TS# 595

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
IL ROUTE 83 (KINGERY HWY.) AT GROVE AVENUE /SHERWOOD DRIVE

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	32
		CONTRACT NO. 60X35		
		ILLINOIS FED. AID PROJECT		

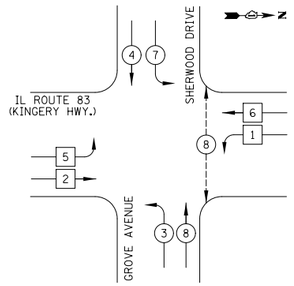
SCHEDULE OF QUANTITIES

	PAY ITEM	UNIT	QNTY.
	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	21
	PROTECTIVE COAT	SQ YD	24
	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	189
	DETECTABLE WARNINGS	SQ FT	34
	COMBINATION CURB AND GUTTER REMOVAL	FOOT	13
	SIDEWALK REMOVAL	SQ FT	76
	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	11
	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	13
	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
	CHANGEABLE MESSAGE SIGN	CAL MO	1
	SIGN PANEL - TYPE 1	SQ FT	30
	SIGN PANEL - TYPE 2	SQ FT	68
	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	13
	PAVEMENT MARKING REMOVAL	SQ FT	13
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	629
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	5
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	100
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	476
	HANDHOLE	EACH	1
	HEAVY-DUTY HANDHOLE	EACH	4
	DOUBLE HANDHOLE	EACH	2
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	234
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	817
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3899
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	219
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1784
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	46
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	760
	STEEL MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	4
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	51
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
	SIGNAL HEAD, LED, 2-FACE,3-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 2-FACE,1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16
	INDUCTIVE LOOP DETECTOR	EACH	7
	DETECTOR LOOP, TYPE I	FOOT	818
*	LIGHT DETECTOR	EACH	3
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1358
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	8
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	11
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	566
	CONDUIT SPLICE	EACH	1
**	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
	UNINTERRUPTABLE POWER SUPPLY SPECIAL	EACH	1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
	TRAINEES	HOURS	170

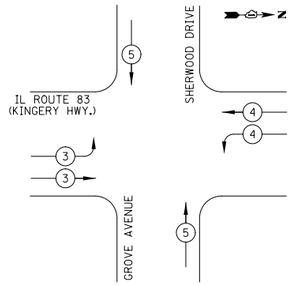
* 100% COST TO THE VILLAGE OF BENSENVILLE

** SUPER P CABINET

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

TS# 595

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES IL ROUTE 83 (KINGERY HWY.) AT GROVE AVENUE /SHERWOOD DRIVE
		DRAWN - JRT	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -		
	PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -		NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	33
		CONTRACT NO. 60X35		
	ILLINOIS	FED. AID PROJECT		

TEMPORARY TRAFFIC SIGNAL NOTES

1. 73′ OF THIS CONDUIT RUN SHALL BE CAPPED AND MAINTAINED FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION. EXISTING CABLES SHALL BE REMOVED FROM THE CONDUIT.
2. 61′ OF THIS CONDUIT RUN SHALL BE CAPPED AND MAINTAINED FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION. EXISTING CABLES SHALL BE REMOVED FROM THE CONDUIT.
3. THESE SIGNAL POSTS SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION.

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

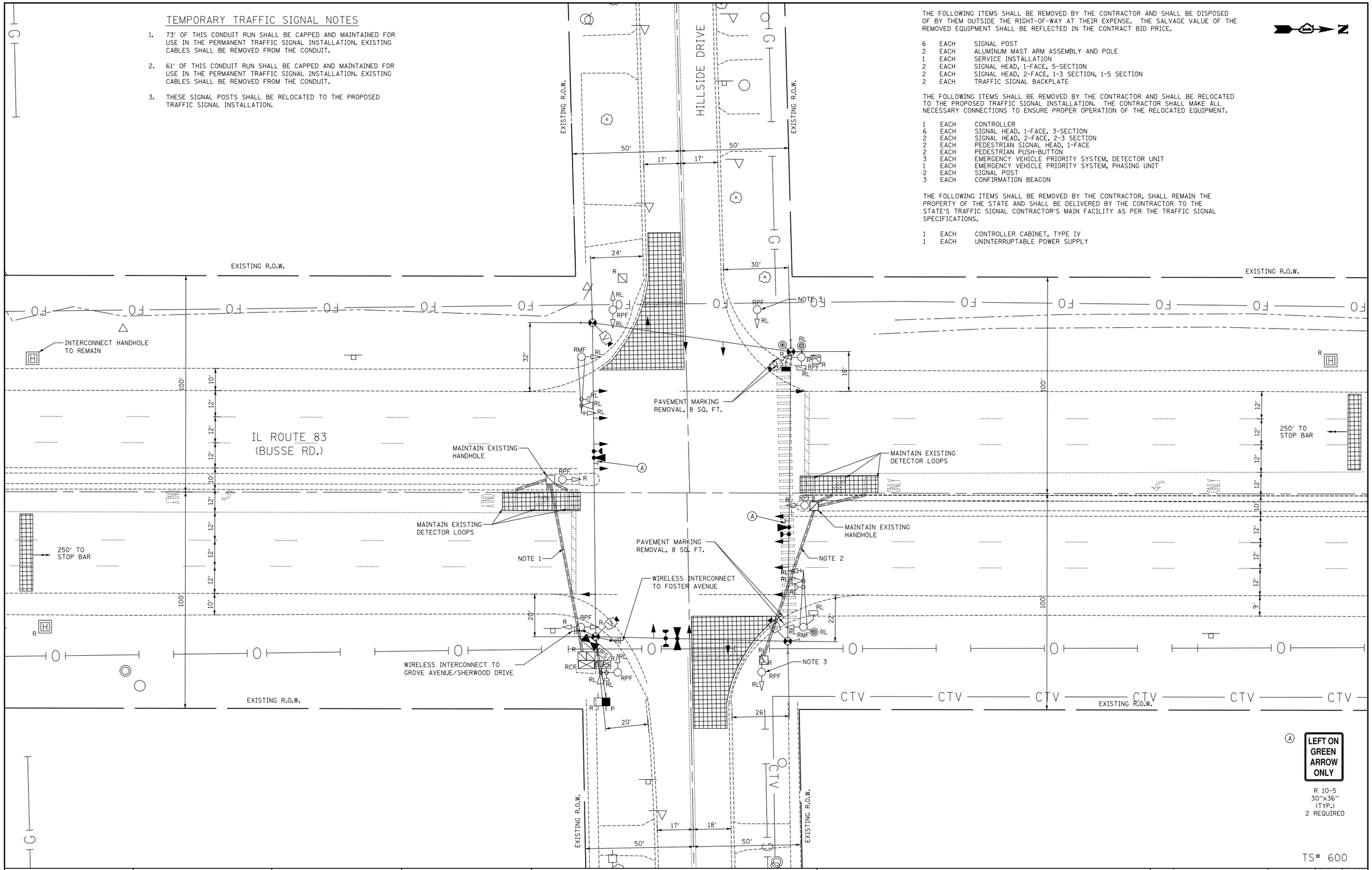
6	EACH	SIGNAL POST
2	EACH	ALUMINUM MAST ARM ASSEMBLY AND POLE
1	EACH	SERVICE INSTALLATION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
2	EACH	TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO ENSURE PROPER OPERATION OF THE RELOCATED EQUIPMENT.

1	EACH	CONTROLLER
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 2-3 SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN PUSH-BUTTON
3	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
2	EACH	SIGNAL POST
3	EACH	CONFIRMATION BEACON

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1	EACH	CONTROLLER CABINET, TYPE IV
1	EACH	UNINTERRUPTABLE POWER SUPPLY



TS# 600

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ′ / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

CIVILTECH

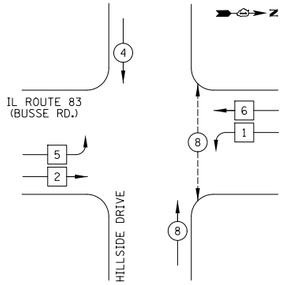
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
IL ROUTE 83 (BUSSE RD.) AT HILLSIDE DRIVE

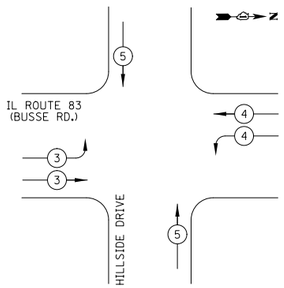
SCALE: 1″ = 20′ | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	34
		CONTRACT NO. 60X35		
		ILLINOIS FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

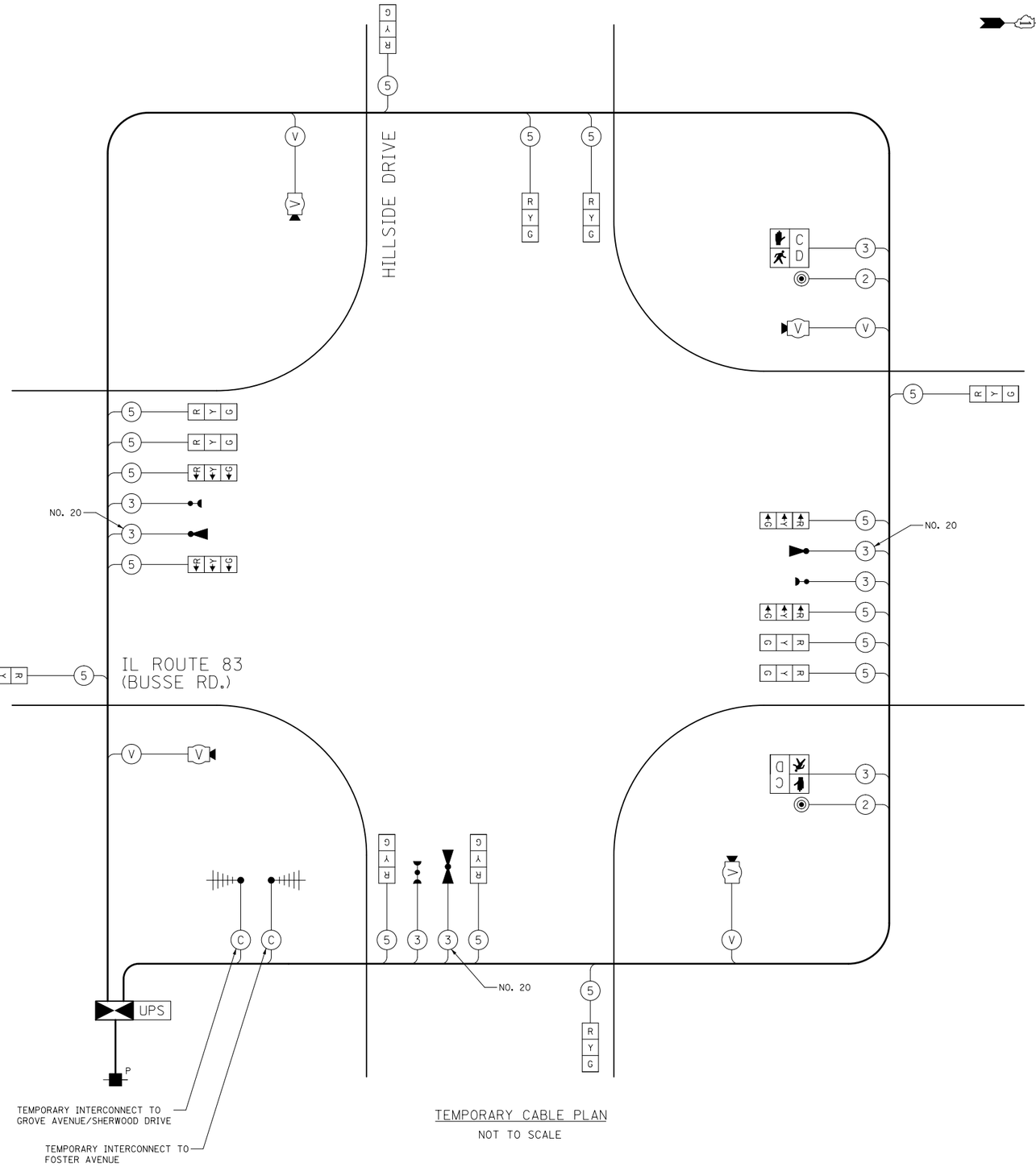
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	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	0		12	0.10	0
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
FLASHER				0.50	
				TOTAL =	596

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED



TEMPORARY CABLE PLAN

NOT TO SCALE

TS# 600

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

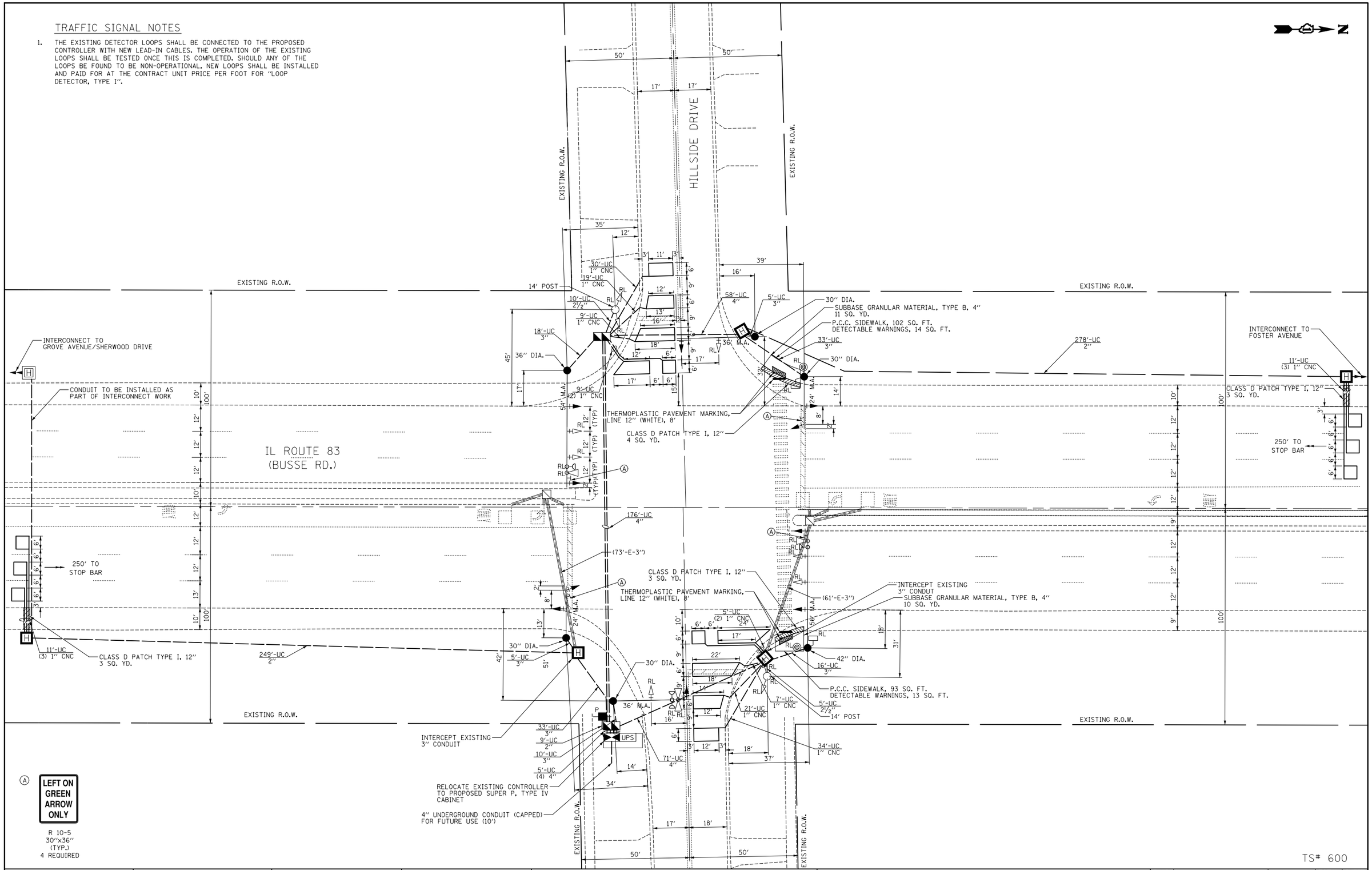
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 83 (BUSSE RD.) AT HILLSIDE DRIVE

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	35
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL NOTES

1. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL BE TESTED ONCE THIS IS COMPLETED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".



CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 83 (BUSSE RD.) AT HILLSIDE DRIVE

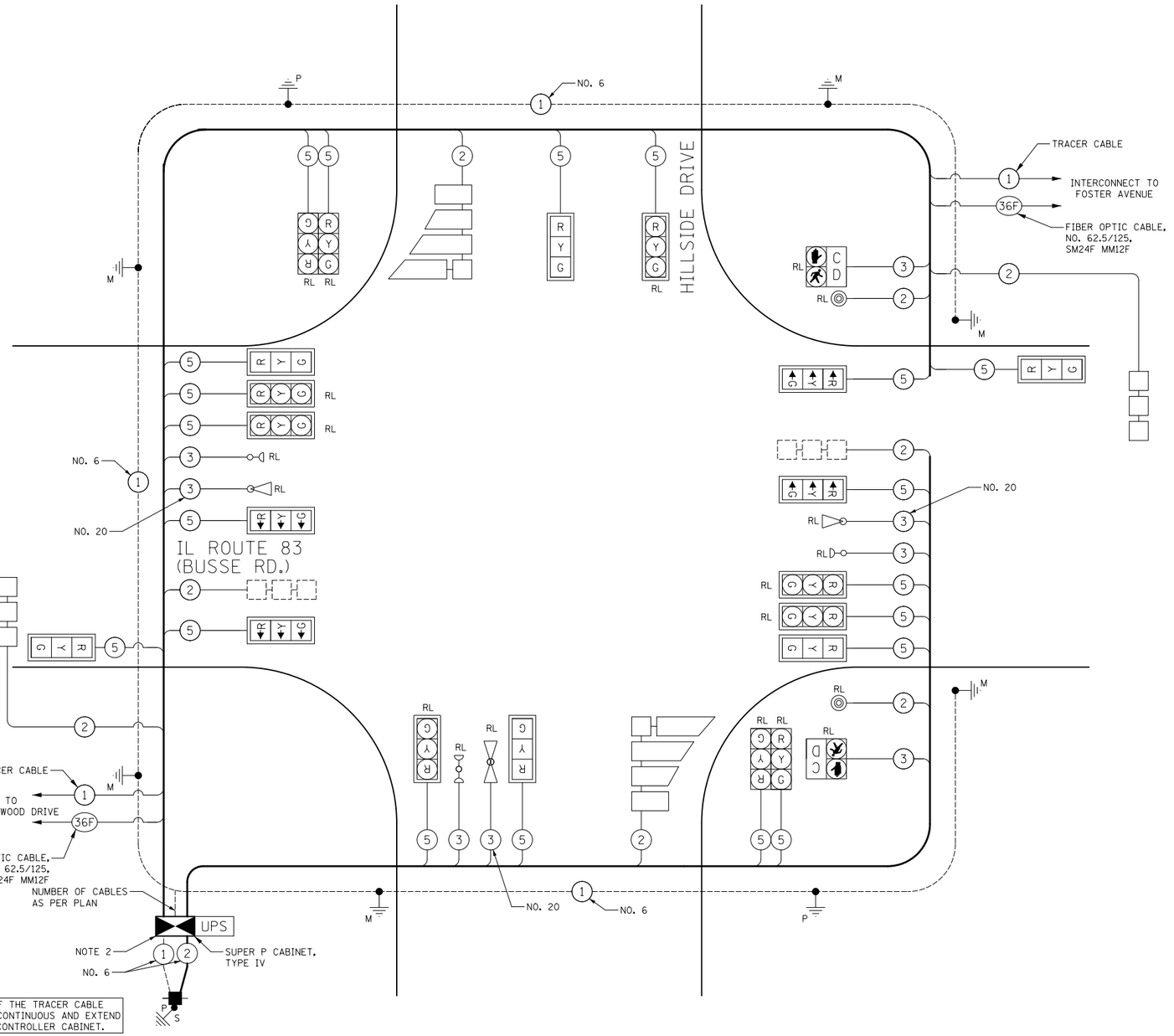
SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	36
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

CABLE PLAN NOTES

1. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH INSTALLATION OF NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL THEN BE TESTED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".

2. THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE RELOCATED FROM THE EXISTING CONTROLLER CABINET TO THE PROPOSED SUPER "P", TYPE IV CABINET.



CABLE PLAN
NOT TO SCALE

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

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
ARROW	0		12	0.10	0
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
				TOTAL =	520

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED

TS# 600

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
IL ROUTE 83 (BUSSE RD.) AT HILLSIDE DRIVE

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	37
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

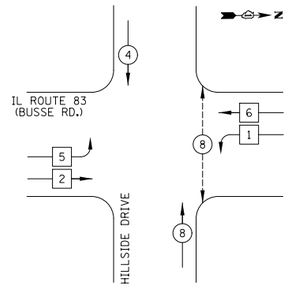
SCHEDULE OF QUANTITIES

	PAY ITEM	UNIT	QNTY.
	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	22
	PROTECTIVE COAT	SQ YD	22
	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	195
	DETECTABLE WARNINGS	SQ FT	27
	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	13
	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
	CHANGEABLE MESSAGE SIGN	CAL MO	1
	SIGN PANEL - TYPE 1	SQ FT	45
	SIGN PANEL - TYPE 2	SQ FT	23
	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	16
	PAVEMENT MARKING REMOVAL	SQ FT	16
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	536
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	15
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	121
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	511
	HEAVY-DUTY HANDHOLE	EACH	5
	DOUBLE HANDHOLE	EACH	2
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	447
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1048
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4341
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1499
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	29
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	828
	STEEL MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	8
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	47
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16
	INDUCTIVE LOOP DETECTOR	EACH	6
	DETECTOR LOOP, TYPE I	FOOT	697
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	RELOCATE EXISTING SIGNAL HEAD	EACH	8
	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1
	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	MODIFY EXISTING CONTROLLER	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1641
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	5
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	11
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	587
	UNINTERRUPTABLE POWER SUPPLY SPECIAL	EACH	1
**	CONTROLLER CABINET, TYPE IV, SPECIAL	EACH	1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
	TRAINEES	HOURS	170

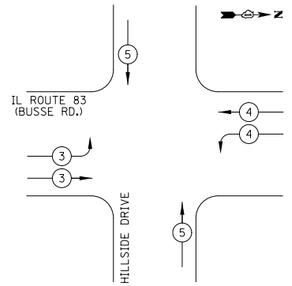
* 100% COST TO THE VILLAGE OF BENSENVILLE

** SUPER P CABINET

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

TS# 600

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES
IL ROUTE 83 (BUSSE RD.) AT HILLSIDE DRIVE

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

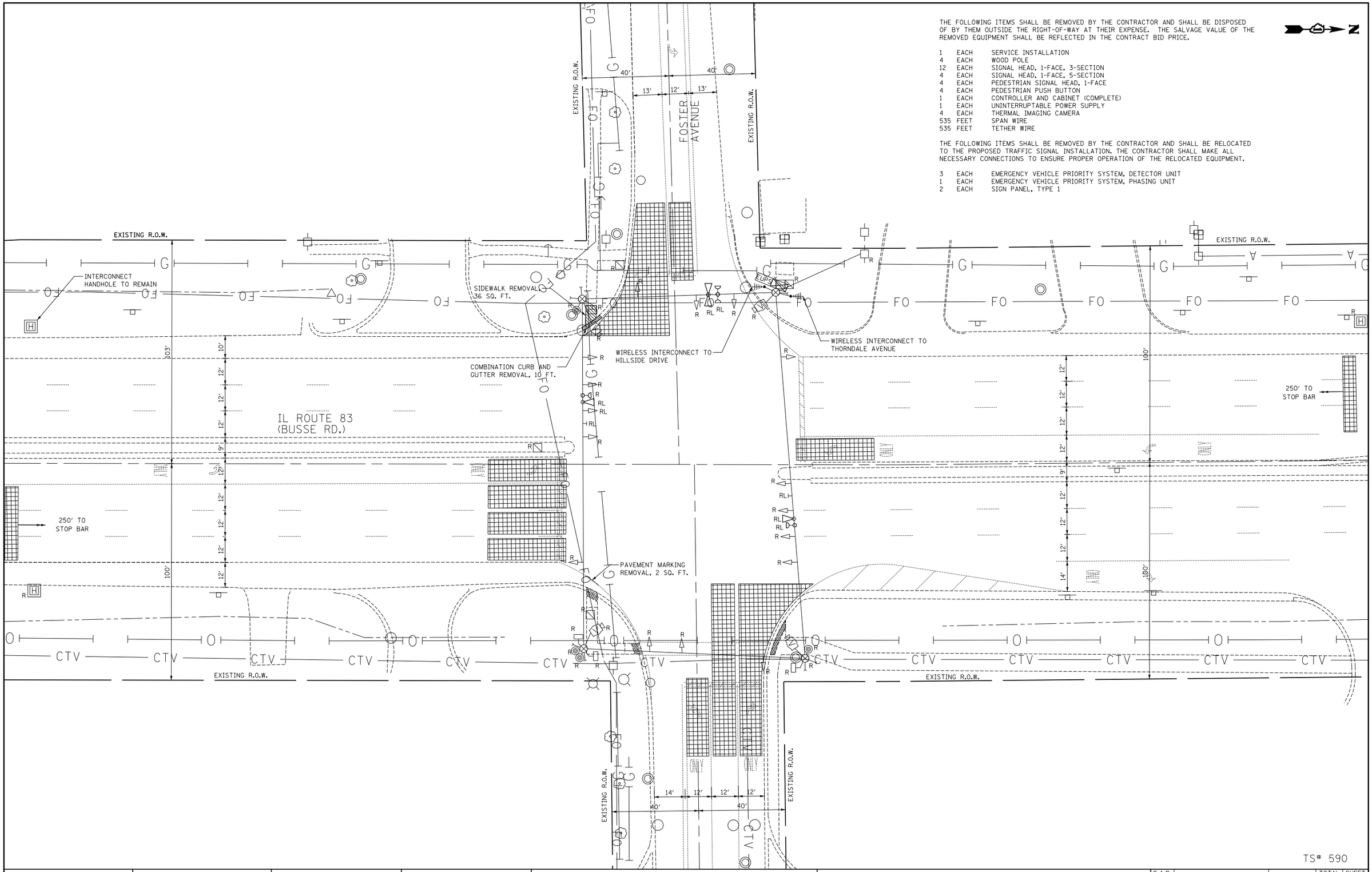
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	38
		CONTRACT NO. 60X35		
	ILLINOIS	FED. AID PROJECT		

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 CONTRACT BID PRICE.

1	EACH	SERVICE INSTALLATION
4	EACH	WOOD POLE
12	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
4	EACH	PEDESTRIAN PUSH BUTTON
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	UNINTERRUPTABLE POWER SUPPLY
4	EACH	THERMAL IMAGING CAMERA
535	FEET	SPAN WIRE
535	FEET	TETHER WIRE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO ENSURE PROPER OPERATION OF THE RELOCATED EQUIPMENT.

3	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
2	EACH	SIGN PANEL, TYPE 1



TS# 590

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

CIVILTECH

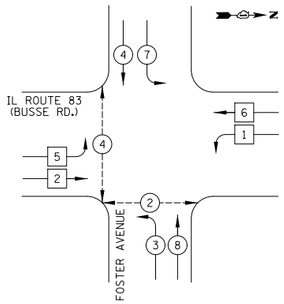
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL REMOVAL PLAN
IL ROUTE 83 (BUSSE RD.) AT FOSTER AVENUE

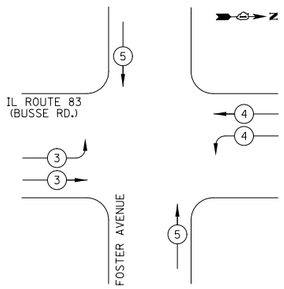
SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	39
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

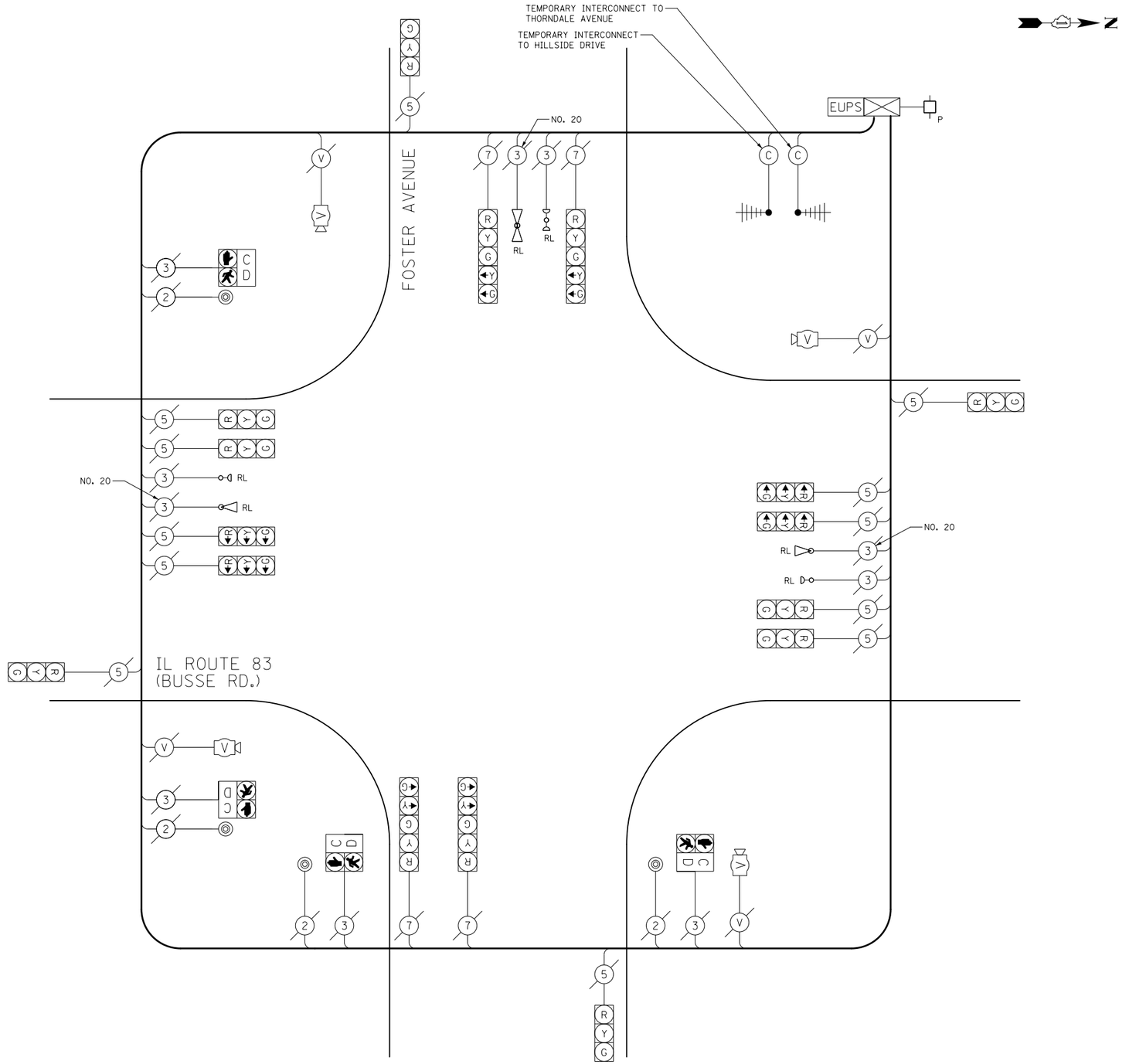
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	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	10
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
FLASHER				0.50	
				TOTAL =	656

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED



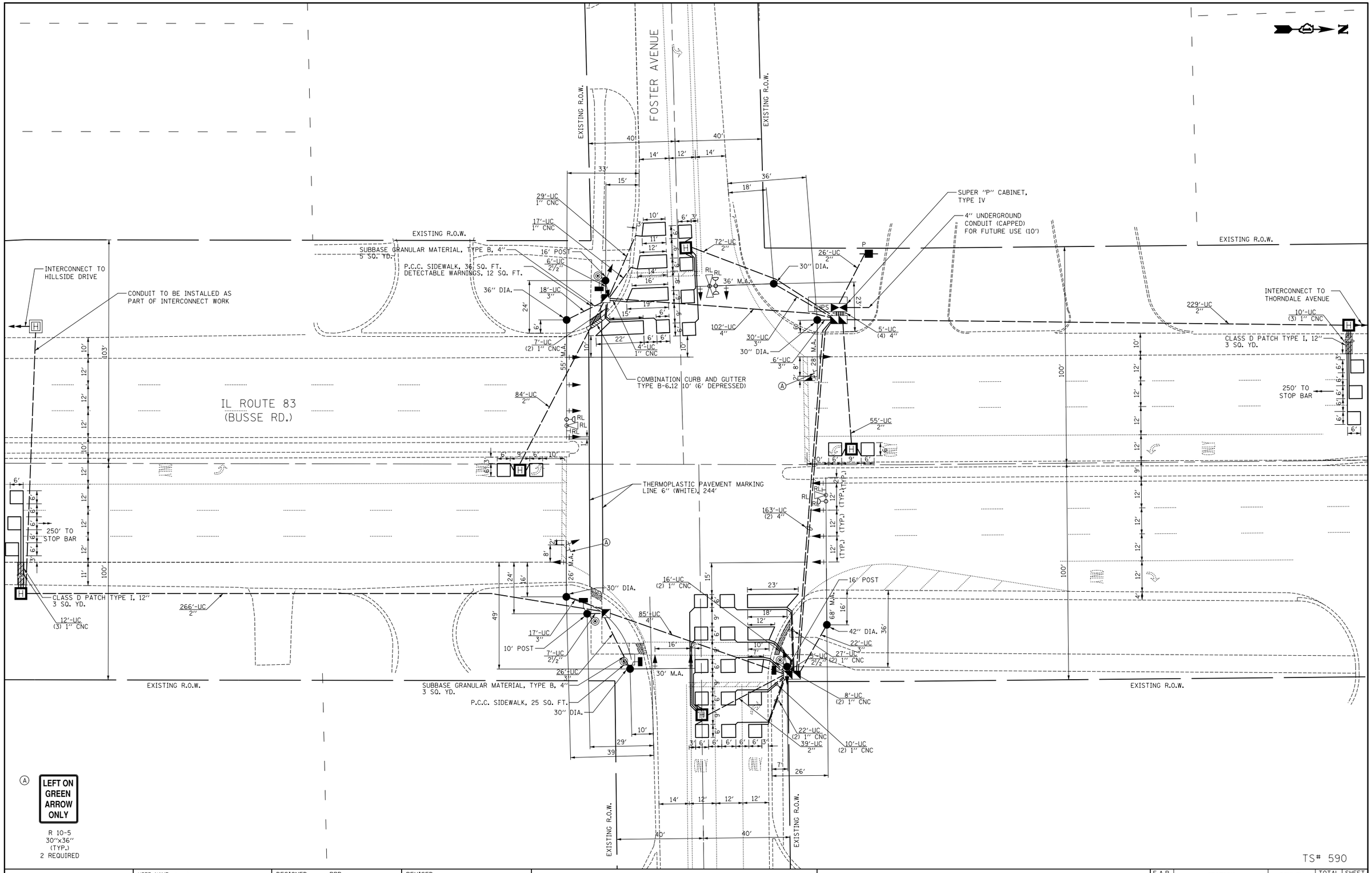
TEMPORARY CABLE PLAN

NOT TO SCALE

TS# 590

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 83 AT FOSTER AVENUE
		DRAWN - JRT	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -		NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	40
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			



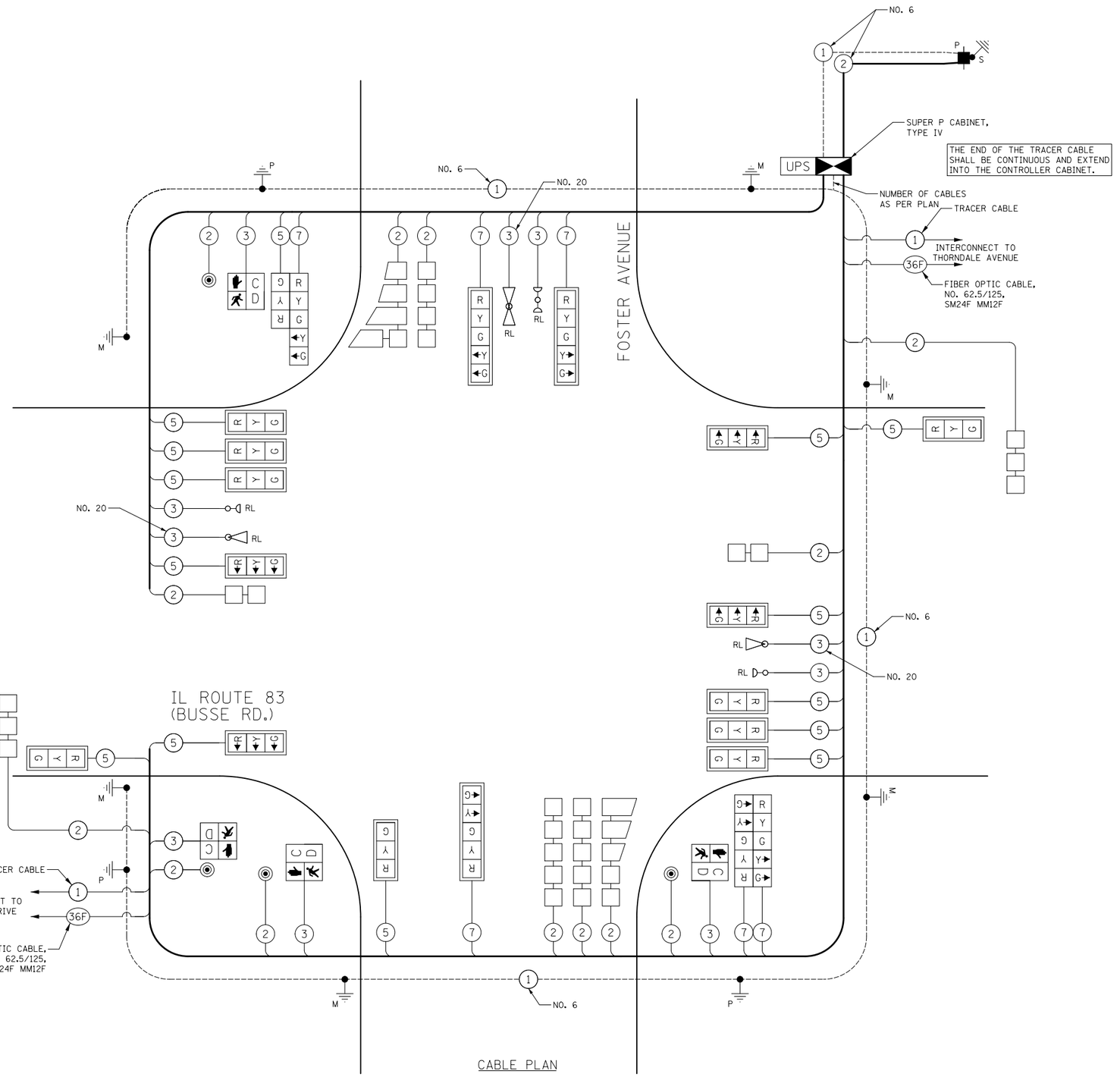
CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 83 (BUSSE RD.) AT FOSTER AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	41
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			



CABLE PLAN

NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
ARROW	12		12	0.10	14
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
				TOTAL =	584

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED

TS# 590

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
IL ROUTE 83 (BUSSE RD.) AT FOSTER AVENUE

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	42
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

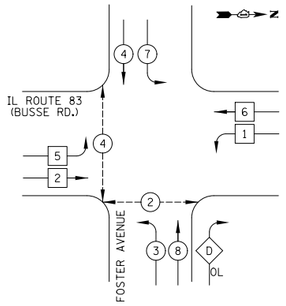
SCHEDULE OF QUANTITIES

	PAY ITEM	UNIT	QNTY.
	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	7
	PROTECTIVE COAT	SQ YD	9
	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	61
	DETECTABLE WARNINGS	SQ FT	12
	COMBINATION CURB AND GUTTER REMOVAL	FOOT	10
	SIDEWALK REMOVAL	SQ FT	36
	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	6
	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	10
	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
	CHANGEABLE MESSAGE SIGN	CAL MO	1
	SIGN PANEL - TYPE 1	SQ FT	30
	SIGN PANEL - TYPE 2	SQ FT	23
	RELOCATE SIGN PANEL - TYPE 1	SQ FT	15
	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	244
	PAVEMENT MARKING REMOVAL	SQ FT	2
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	771
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	18
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	119
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	543
	HANDHOLE	EACH	2
	HEAVY-DUTY HANDHOLE	EACH	6
	DOUBLE HANDHOLE	EACH	2
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	998
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1671
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3377
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1178
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1999
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	46
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	878
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 68 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	47
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	13
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
	SIGNAL HEAD, LED, 2-FACE,1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 2-FACE, 5-SECTION BRACKET MOUNTED	EACH	1
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16
	INDUCTIVE LOOP DETECTOR	EACH	9
	DETECTOR LOOP, TYPE I	FOOT	1331
	PEDESTRIAN PUSH-BUTTON	EACH	4
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	5
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	645
	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	EACH	1
**	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
	UNINTERRUPTABLE POWER SUPPLY SPECIAL	EACH	1
	TEMPORARY INFORMATION SIGNING	SQ FT	26
	TRAINEES	HOURS	170

* 100% COST TO THE VILLAGE OF BENSENVILLE

** SUPER P CABINET

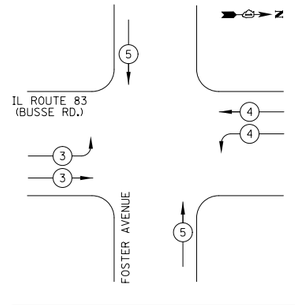
PROPOSED CONTROLLER SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1

TS# 590

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES
IL ROUTE 83 (BUSSE RD.) AT FOSTER AVENUE

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	43
		CONTRACT NO. 60X35		
	ILLINOIS	FED. AID PROJECT		

TEMPORARY TRAFFIC SIGNAL NOTES

1. 62′ OF THIS CONDUIT RUN SHALL BE CAPPED AND MAINTAINED FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION. EXISTING CABLES SHALL BE REMOVED FROM THE CONDUIT.

2. 63′ OF THIS CONDUIT RUN SHALL BE CAPPED AND MAINTAINED FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION. EXISTING CABLES SHALL BE REMOVED FROM THE CONDUIT.

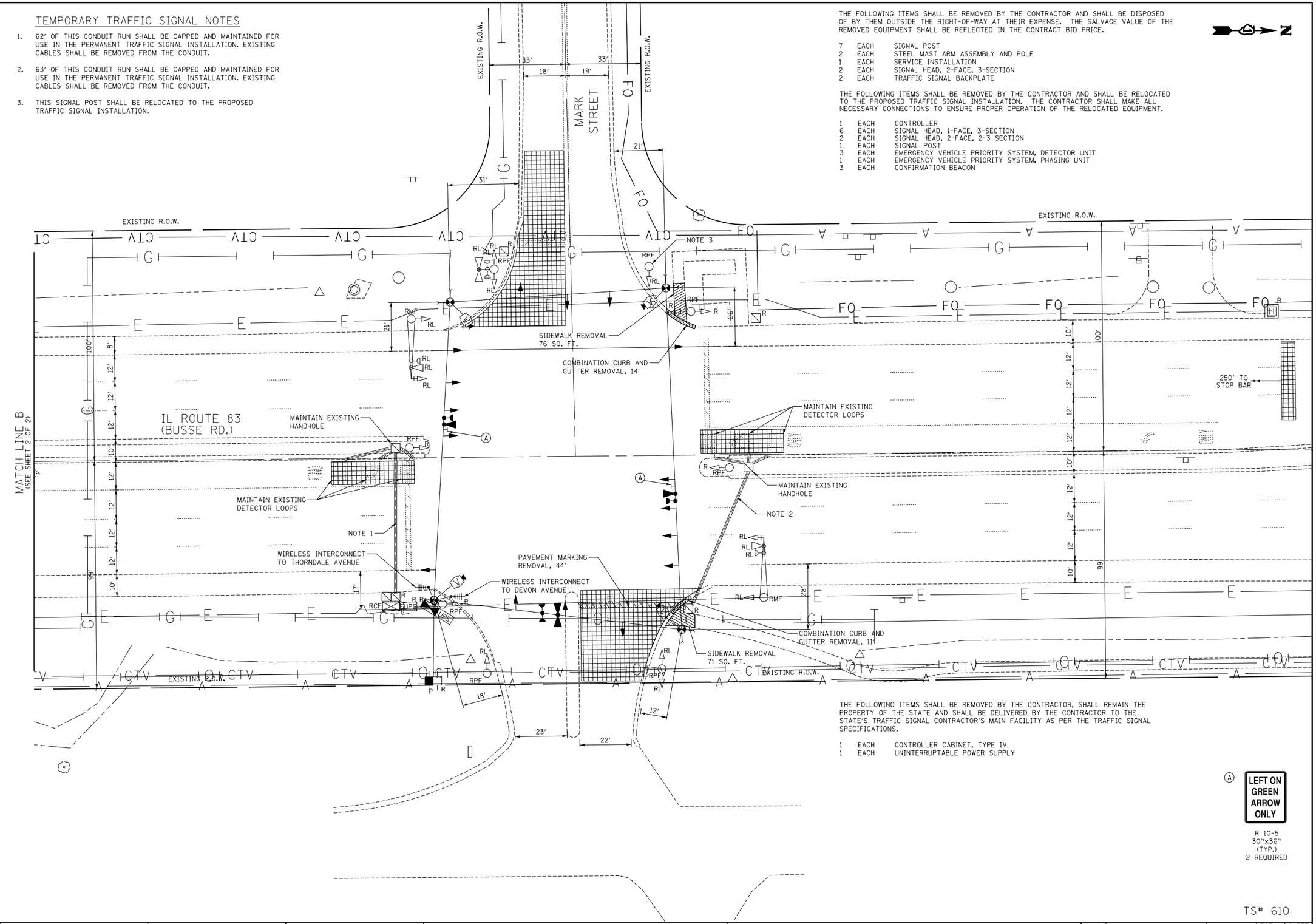
3. THIS SIGNAL POST SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION.

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

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

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO ENSURE PROPER OPERATION OF THE RELOCATED EQUIPMENT.

1	EACH	CONTROLLER
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 2-3 SECTION
1	EACH	SIGNAL POST
3	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
3	EACH	CONFIRMATION BEACON



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1	EACH	CONTROLLER CABINET, TYPE IV
1	EACH	UNINTERRUPTABLE POWER SUPPLY

Ⓐ **LEFT ON GREEN ARROW ONLY**

R 10-5
30″×36″
(TYP.)
2 REQUIRED

TS# 610

CIVILTECH

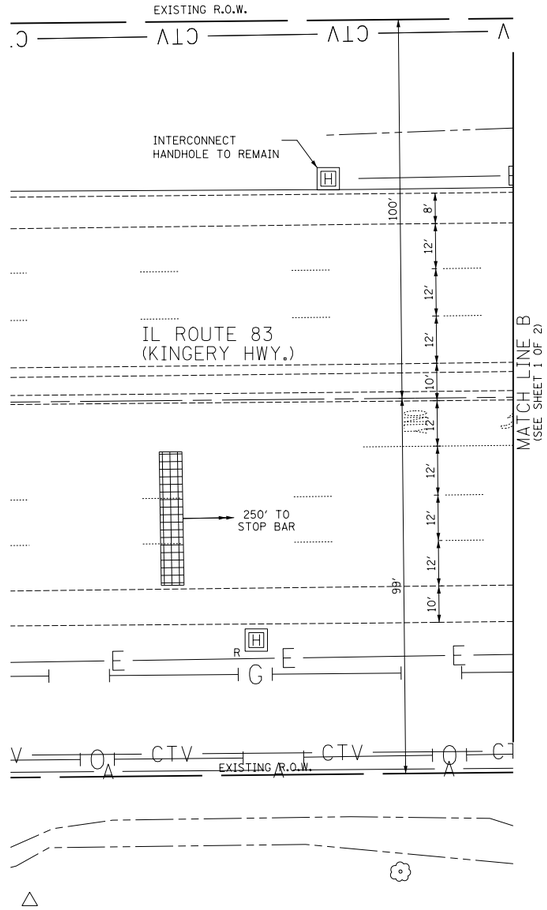
USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ′ / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
IL ROUTE 83 (BUSSE RD.) AT MARK STREET

SCALE: 1″ = 20′ | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	44
		CONTRACT NO. 60X35		
	ILLINOIS	FED. AID PROJECT		

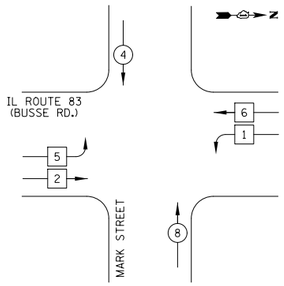


TS# 610

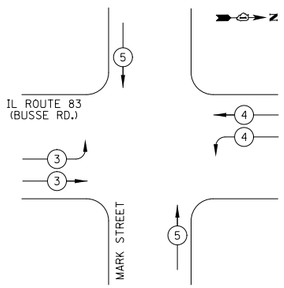
CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN IL ROUTE 83 (BUSSE RD.) AT MARK STREET
		DRAWN - JRT	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -		SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	45
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

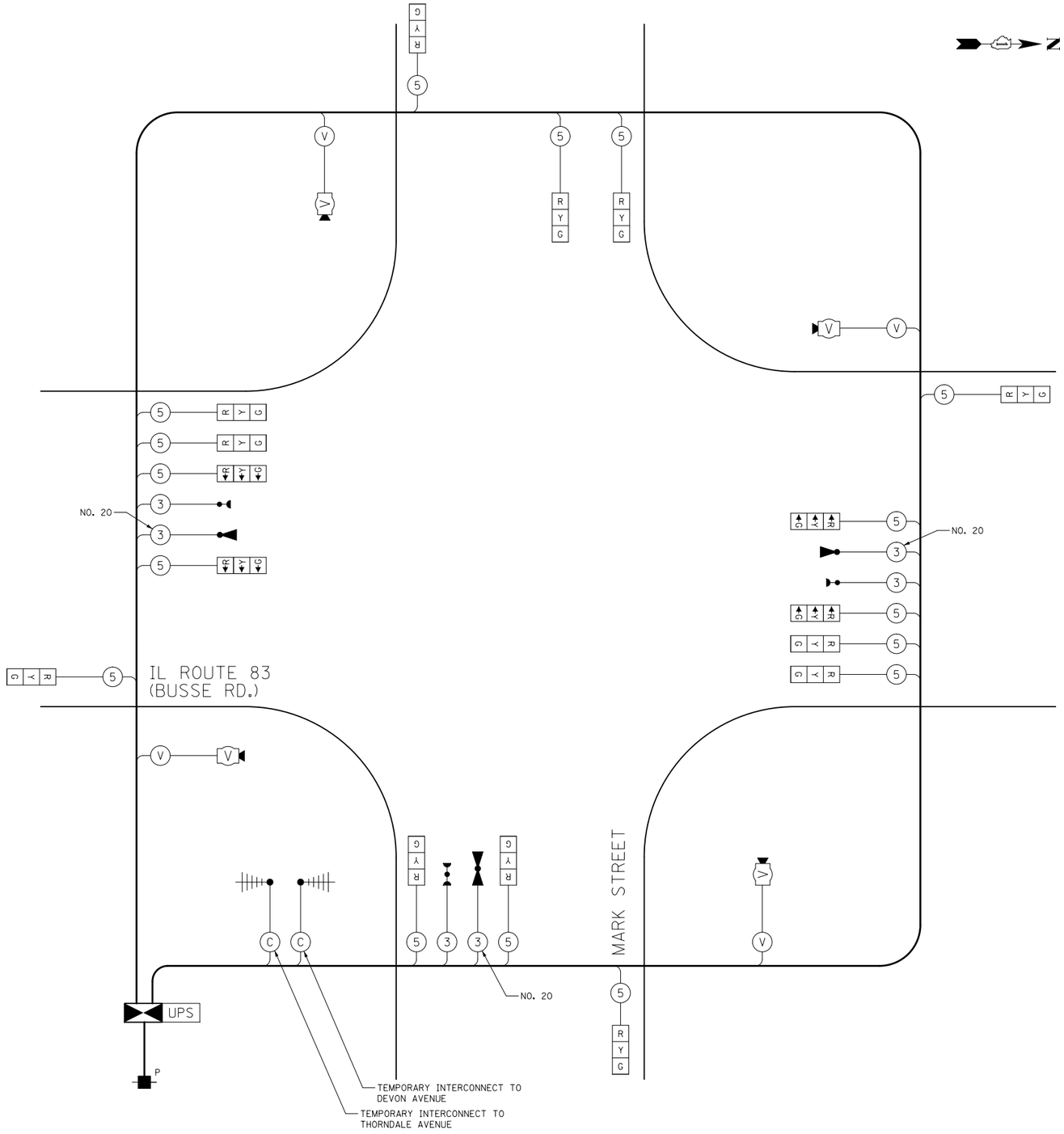
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	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	0		12	0.10	0
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
FLASHER				0.50	
				TOTAL =	546

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED



TEMPORARY CABLE PLAN

NOT TO SCALE

TS# 610

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

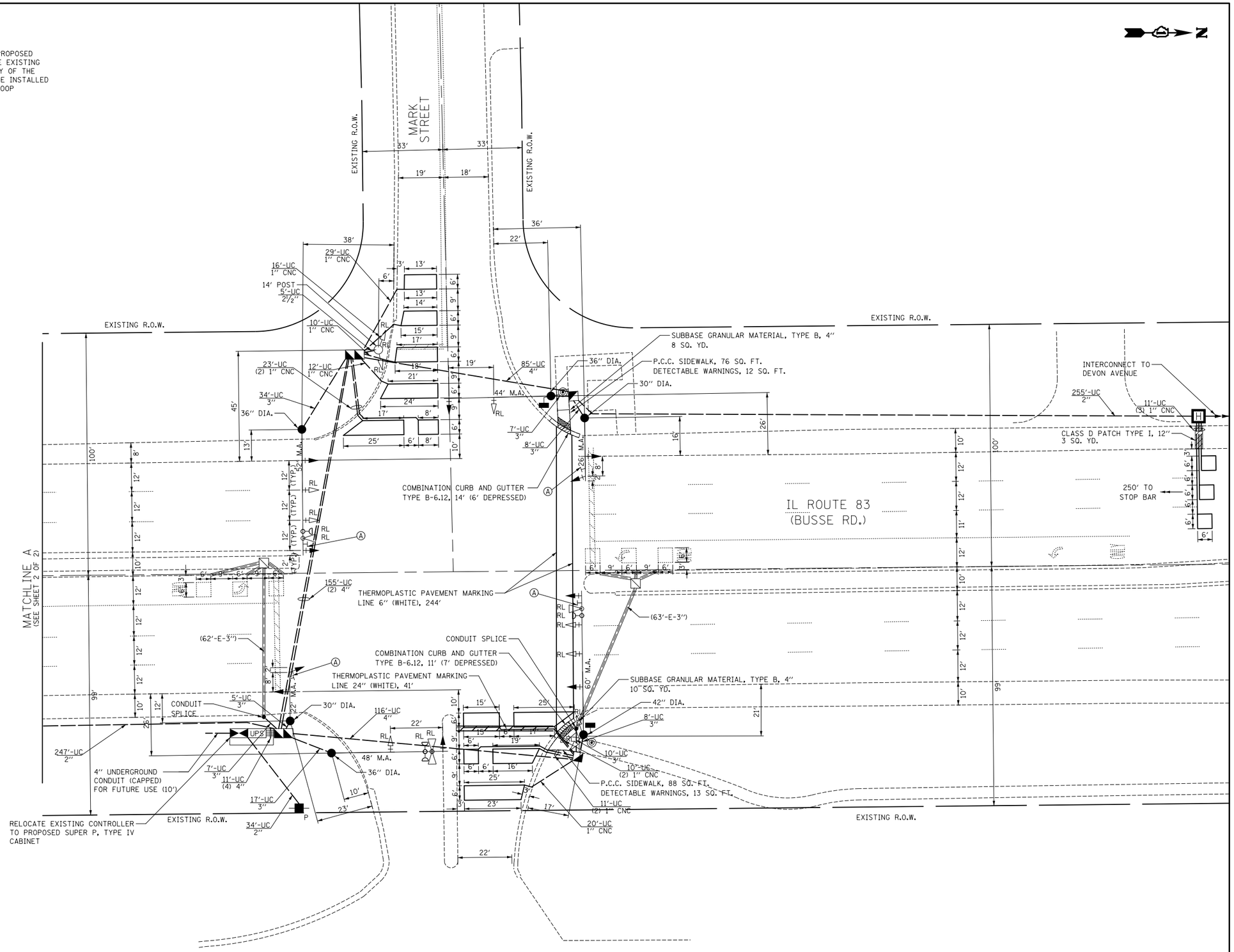
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 83 AT MARK STREET

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	46
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL NOTES

1. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL BE TESTED ONCE THIS IS COMPLETED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".



Ⓐ **LEFT ON GREEN ARROW ONLY**

R 10-5
30"x36"
(TYP.)
4 REQUIRED

TS# 610

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

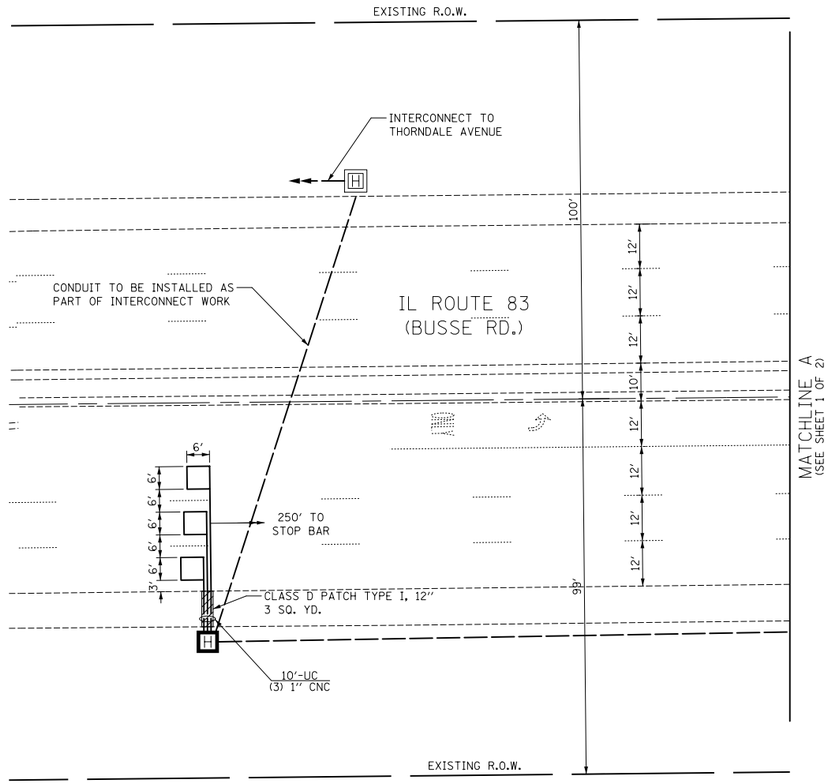
CIVILTECH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 83 (BUSSE RD.) AT MARK STREET

SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	47
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			



TS# 610

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 83 (BUSSE RD.) AT MARK STREET

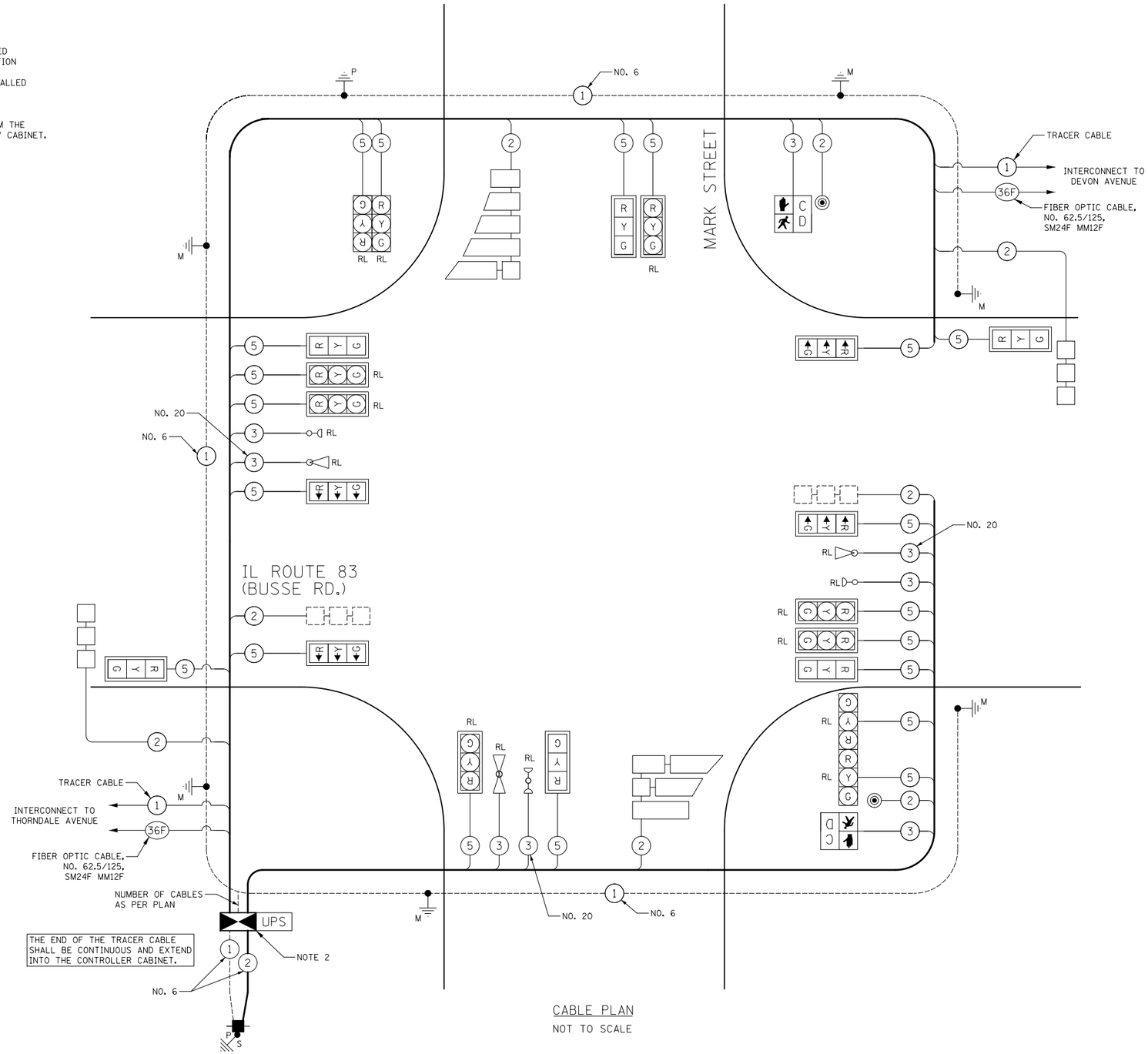
SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	48
		CONTRACT NO. 60X35		
	ILLINOIS	FED. AID PROJECT		

CABLE PLAN NOTES

1. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH INSTALLATION OF NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL THEN BE TESTED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".

2. THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE RELOCATED FROM THE EXISTING CONTROLLER CABINET TO THE PROPOSED SUPER "P", TYPE IV CABINET.



CABLE PLAN

NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
ARROW	0		12	0.10	0
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
				TOTAL =	520

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TED ZAWISLAK
PHONE: (630) 691-4861
COMPANY: COM ED

TS# 610

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
IL ROUTE 83 (BUSSE RD.) AT MARK STREET

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	49
		CONTRACT NO. 60X35		
	ILLINOIS	FED. AID PROJECT		

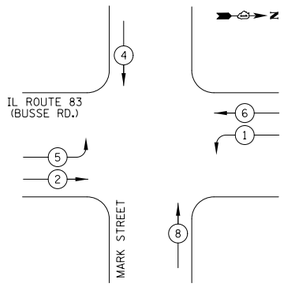
SCHEDULE OF QUANTITIES

	PAY ITEM	UNIT	QNTY.
	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	19
	PROTECTIVE COAT	SQ YD	24
	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	164
	DETECTABLE WARNINGS	SQ FT	25
	COMBINATION CURB AND GUTTER REMOVAL	FOOT	25
	SIDEWALK REMOVAL	SQ FT	147
	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	6
	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	25
	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
	CHANGEABLE MESSAGE SIGN	CAL MO	1
	SIGN PANEL - TYPE 1	SQ FT	42
	SIGN PANEL - TYPE 2	SQ FT	23
	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	244
	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	41
	PAVEMENT MARKING REMOVAL	SQ FT	88
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	536
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	5
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	96
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	565
	HANDHOLE	EACH	2
	HEAVY-DUTY HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	2
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	476
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1148
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4586
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1514
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	54
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	850
	STEEL MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	4
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16
	INDUCTIVE LOOP DETECTOR	EACH	6
	DETECTOR LOOP, TYPE I	FOOT	853
	PEDESTRIAN PUSH-BUTTON	EACH	2
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	RELOCATE EXISTING SIGNAL HEAD	EACH	8
	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1
	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	MODIFY EXISTING CONTROLLER	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1171
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	5
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	11
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	658
	CONDUIT SPLICE	EACH	2
**	UNINTERRUPTABLE POWER SUPPLY SPECIAL	EACH	1
	CONTROLLER CABINET, TYPE IV, SPECIAL	EACH	1
	TEMPORARY INFORMATION SIGNING	SQ FT	51
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
	TRAINEES	HOURS	170

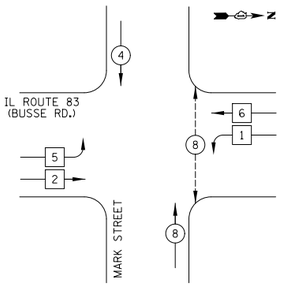
* 100% COST TO THE VILLAGE OF BENSENVILLE

** SUPER P CABINET

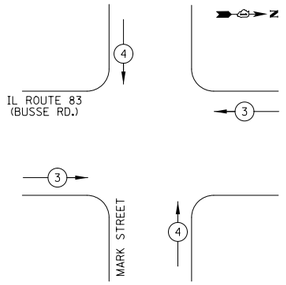
EXISTING
CONTROLLER SEQUENCE



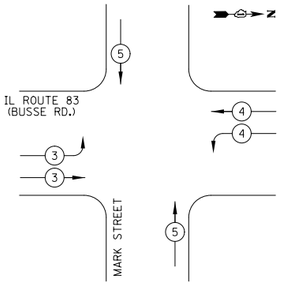
PROPOSED
CONTROLLER SEQUENCE



EXISTING
EMERGENCY VEHICLE
PREEMPTION SEQUENCE



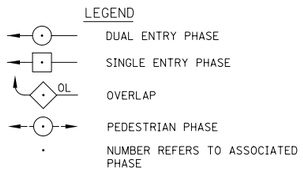
PROPOSED
EMERGENCY VEHICLE
PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

LEGEND



TS# 610

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/30/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES
IL ROUTE 83 (BUSSE RD.) AT MARK STREET

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	50
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

OAK MEADOWS DRIVE

SECOND AVENUE

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

WIRELESS INTERCONNECT TO
GROVE AVENUE/SHERWOOD DRIVE

EXISTING R.O.W.

IL ROUTE 83
(KINGERY HWY.)

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

THIRD AVENUE

WASHINGTON STREET

MATCH LINE A (SEE BELOW)

DEERPATH ROAD

ROYAL OAKS DRIVE

TEMPORARY INTERCONNECT NOTES

1. THE EXISTING FIBER OPTIC CABLE SHALL BE DISCONNECTED FROM THE TRAFFIC SIGNAL CONTROLLERS AND REMOVED FROM THE EXISTING CONDUITS THAT WILL BE REUSED IN THE PERMANENT INTERCONNECT INSTALLATION. THE EXISTING INTERCONNECT CABLE SHALL NOT BE DISCONNECTED AND REMOVED UNTIL THE TEMPORARY RADIO INTERCONNECT INSTALLATION IS OPERATING TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "REMOVE ELECTRIC CABLE FROM CONDUIT".

MATCH LINE A (SEE ABOVE)

EXISTING R.O.W.

IL ROUTE 83
(KINGERY HWY.)

EXISTING R.O.W.

EXISTING R.O.W.

MATCH LINE B (SEE SHEET 2 OF 6)

ECON 111

CIVILTECH

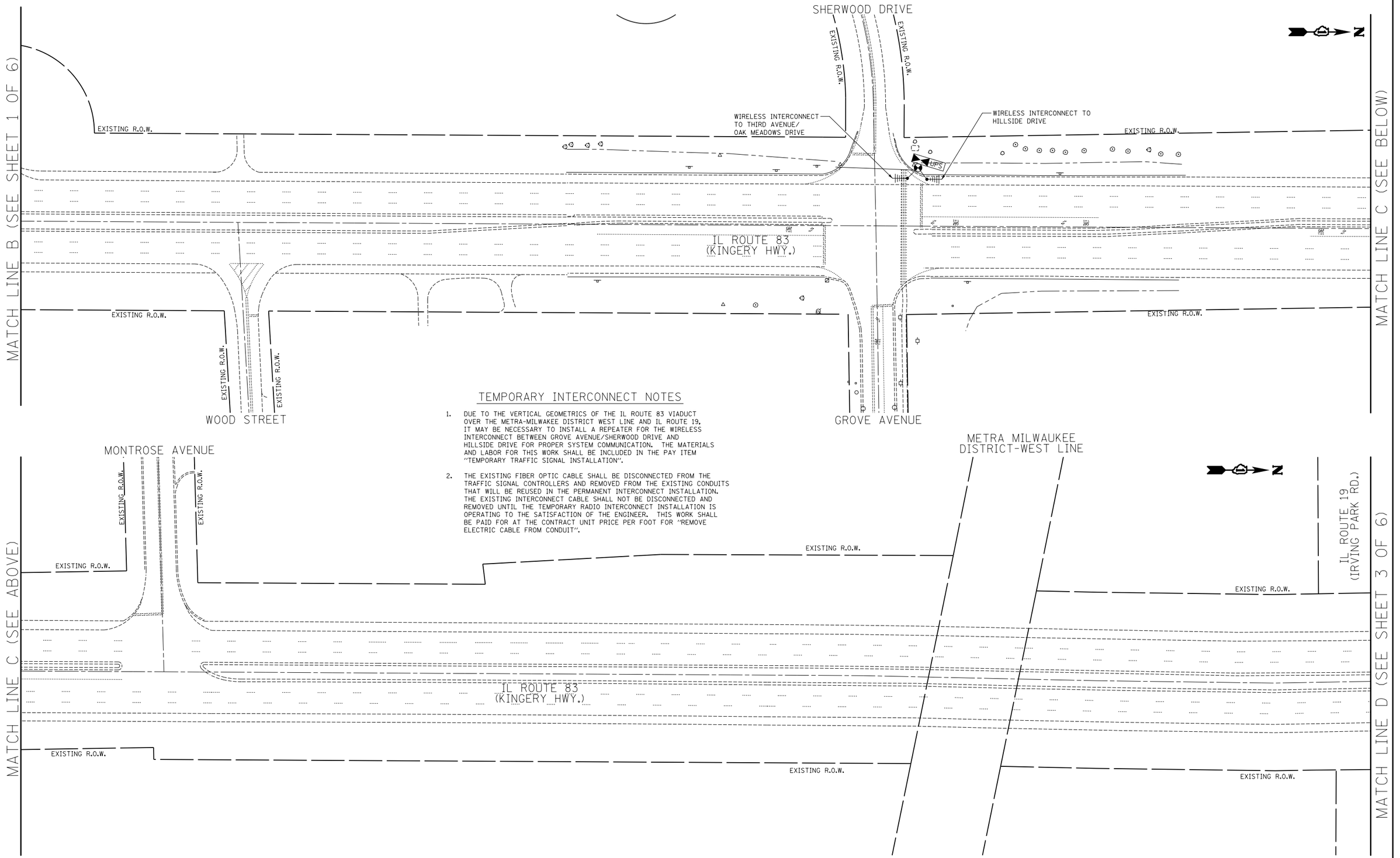
USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	51
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			



TEMPORARY INTERCONNECT NOTES

1. DUE TO THE VERTICAL GEOMETRICS OF THE IL ROUTE 83 VIADUCT OVER THE METRA-MILWAKEE DISTRICT WEST LINE AND IL ROUTE 19, IT MAY BE NECESSARY TO INSTALL A REPEATER FOR THE WIRELESS INTERCONNECT BETWEEN GROVE AVENUE/SHERWOOD DRIVE AND HILLSIDE DRIVE FOR PROPER SYSTEM COMMUNICATION. THE MATERIALS AND LABOR FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

2. THE EXISTING FIBER OPTIC CABLE SHALL BE DISCONNECTED FROM THE TRAFFIC SIGNAL CONTROLLERS AND REMOVED FROM THE EXISTING CONDUITS THAT WILL BE REUSED IN THE PERMANENT INTERCONNECT INSTALLATION. THE EXISTING INTERCONNECT CABLE SHALL NOT BE DISCONNECTED AND REMOVED UNTIL THE TEMPORARY RADIO INTERCONNECT INSTALLATION IS OPERATING TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "REMOVE ELECTRIC CABLE FROM CONDUIT".

ECON 111

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

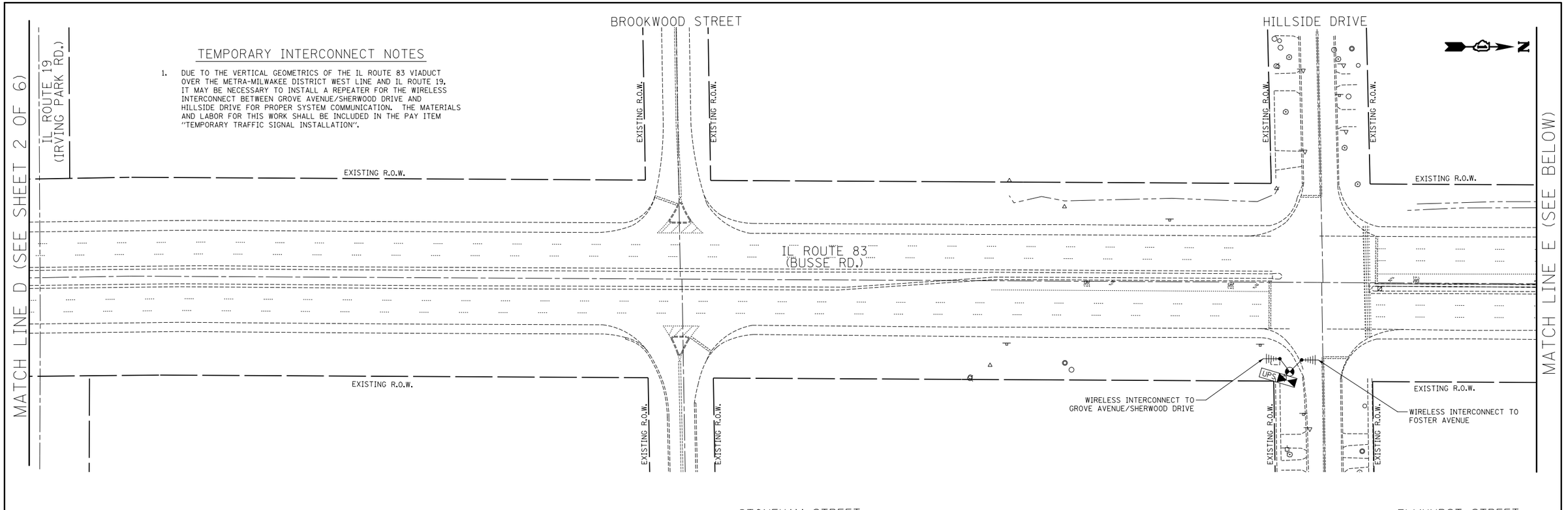
TEMPORARY INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

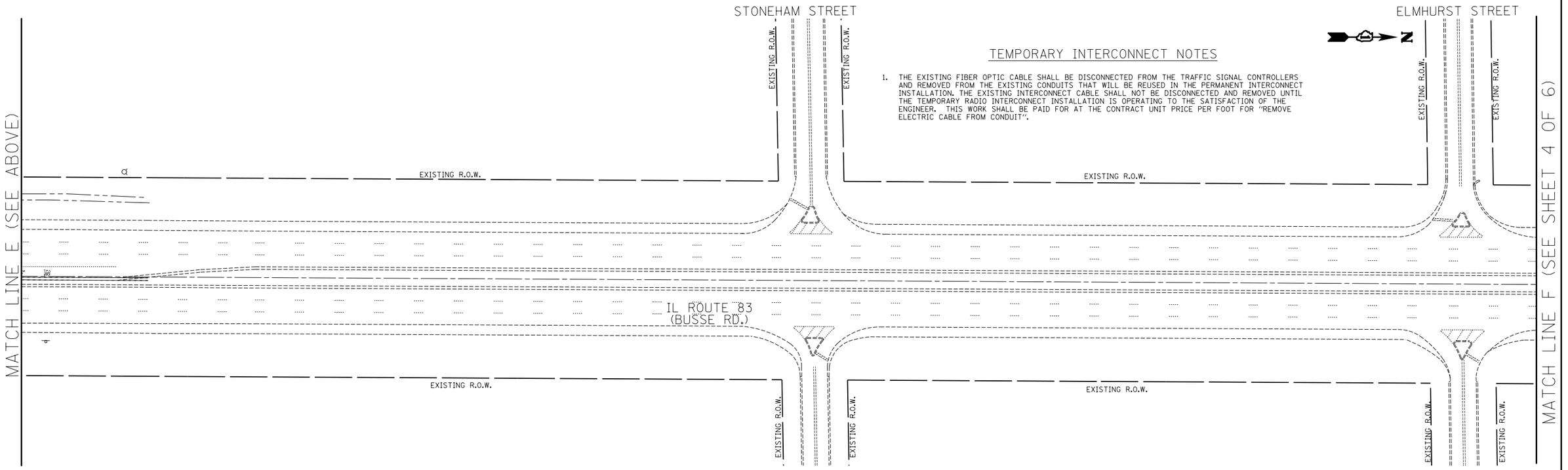
SCALE: 1" = 50' | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	52
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

TEMPORARY INTERCONNECT NOTES

1. DUE TO THE VERTICAL GEOMETRICS OF THE IL ROUTE 83 VIADUCT OVER THE METRA-MILWAKEE DISTRICT WEST LINE AND IL ROUTE 19, IT MAY BE NECESSARY TO INSTALL A REPEATER FOR THE WIRELESS INTERCONNECT BETWEEN GROVE AVENUE/SHERWOOD DRIVE AND HILLSIDE DRIVE FOR PROPER SYSTEM COMMUNICATION. THE MATERIALS AND LABOR FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".





TEMPORARY INTERCONNECT NOTES

1. THE EXISTING FIBER OPTIC CABLE SHALL BE DISCONNECTED FROM THE TRAFFIC SIGNAL CONTROLLERS AND REMOVED FROM THE EXISTING CONDUITS THAT WILL BE REUSED IN THE PERMANENT INTERCONNECT INSTALLATION. THE EXISTING INTERCONNECT CABLE SHALL NOT BE DISCONNECTED AND REMOVED UNTIL THE TEMPORARY RADIO INTERCONNECT INSTALLATION IS OPERATING TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "REMOVE ELECTRIC CABLE FROM CONDUIT".

ECON 111

CIVILTECH

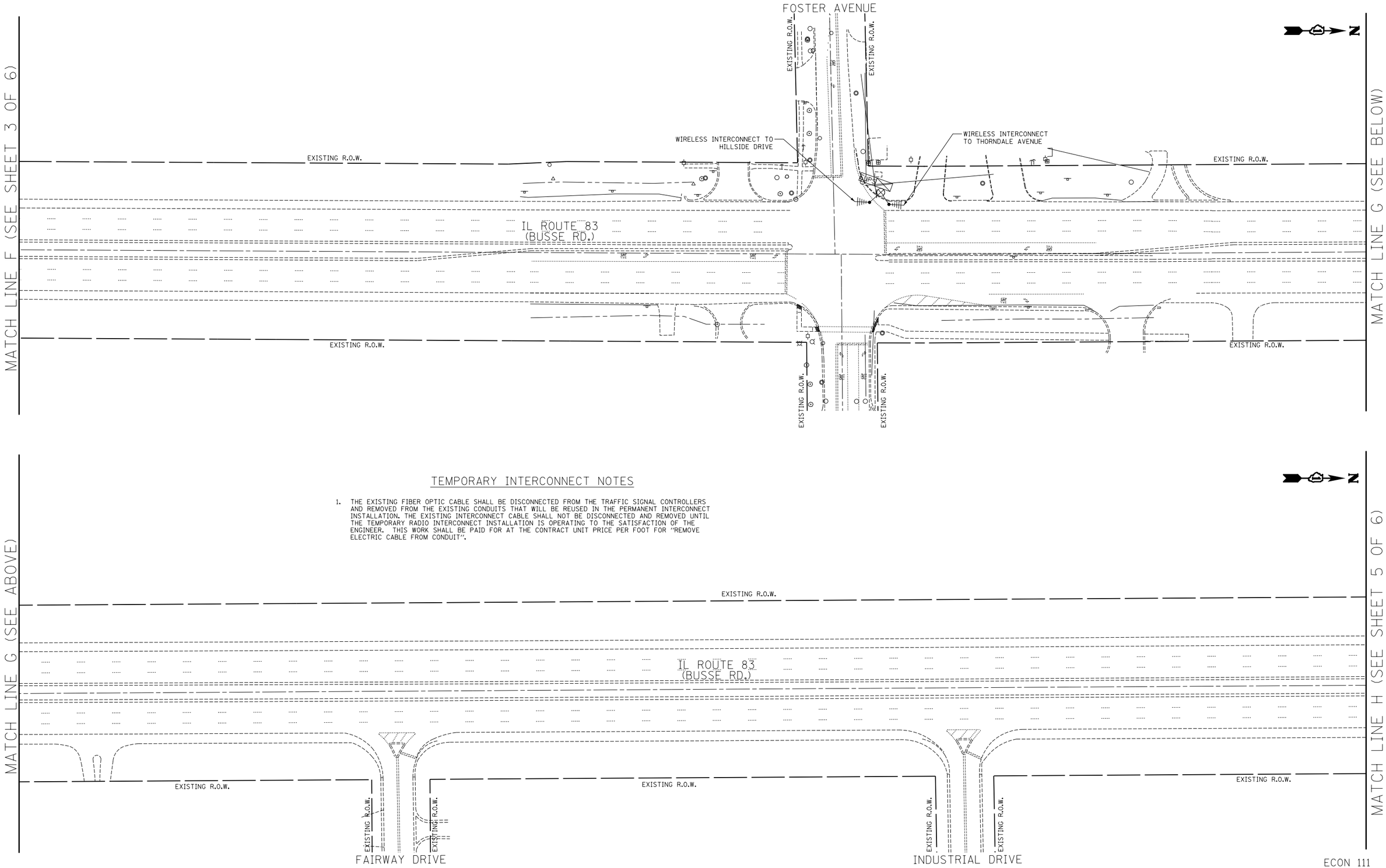
USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	53
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			



TEMPORARY INTERCONNECT NOTES

1. THE EXISTING FIBER OPTIC CABLE SHALL BE DISCONNECTED FROM THE TRAFFIC SIGNAL CONTROLLERS AND REMOVED FROM THE EXISTING CONDUITS THAT WILL BE REUSED IN THE PERMANENT INTERCONNECT INSTALLATION. THE EXISTING INTERCONNECT CABLE SHALL NOT BE DISCONNECTED AND REMOVED UNTIL THE TEMPORARY RADIO INTERCONNECT INSTALLATION IS OPERATING TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "REMOVE ELECTRIC CABLE FROM CONDUIT".

ECON 111

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	54
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

BRYN MAWR AVENUE

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

IL ROUTE 83
(BUSSE RD.)

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

MATCH LINE H (SEE SHEET 4 OF 6)

MATCH LINE I (SEE BELOW)

TEMPORARY INTERCONNECT NOTES

1. THE EXISTING FIBER OPTIC CABLE SHALL BE DISCONNECTED FROM THE TRAFFIC SIGNAL CONTROLLERS AND REMOVED FROM THE EXISTING CONDUITS THAT WILL BE REUSED IN THE PERMANENT INTERCONNECT INSTALLATION. THE EXISTING INTERCONNECT CABLE SHALL NOT BE DISCONNECTED AND REMOVED UNTIL THE TEMPORARY RADIO INTERCONNECT INSTALLATION IS OPERATING TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "REMOVE ELECTRIC CABLE FROM CONDUIT".

THORNDALE AVENUE

EXISTING R.O.W.

WIRELESS INTERCONNECT
TO FOSTER AVENUE

WIRELESS INTERCONNECT
TO MARK STREET

(5'-E-2-5")

(20'-E-3")

(135'-E-5")

(66'-E-5")

(87'-E-5")

EXISTING R.O.W.

EXISTING INTERCONNECT
TO SUPREME DRIVE

EXISTING R.O.W.

MATCH LINE I (SEE ABOVE)

TOWER LANE

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

IL ROUTE 83
(BUSSE RD.)

EXISTING R.O.W.

EXISTING R.O.W.

MATCH LINE J (SEE SHEET 6 OF 6)

ECON 111

CIVILTECH

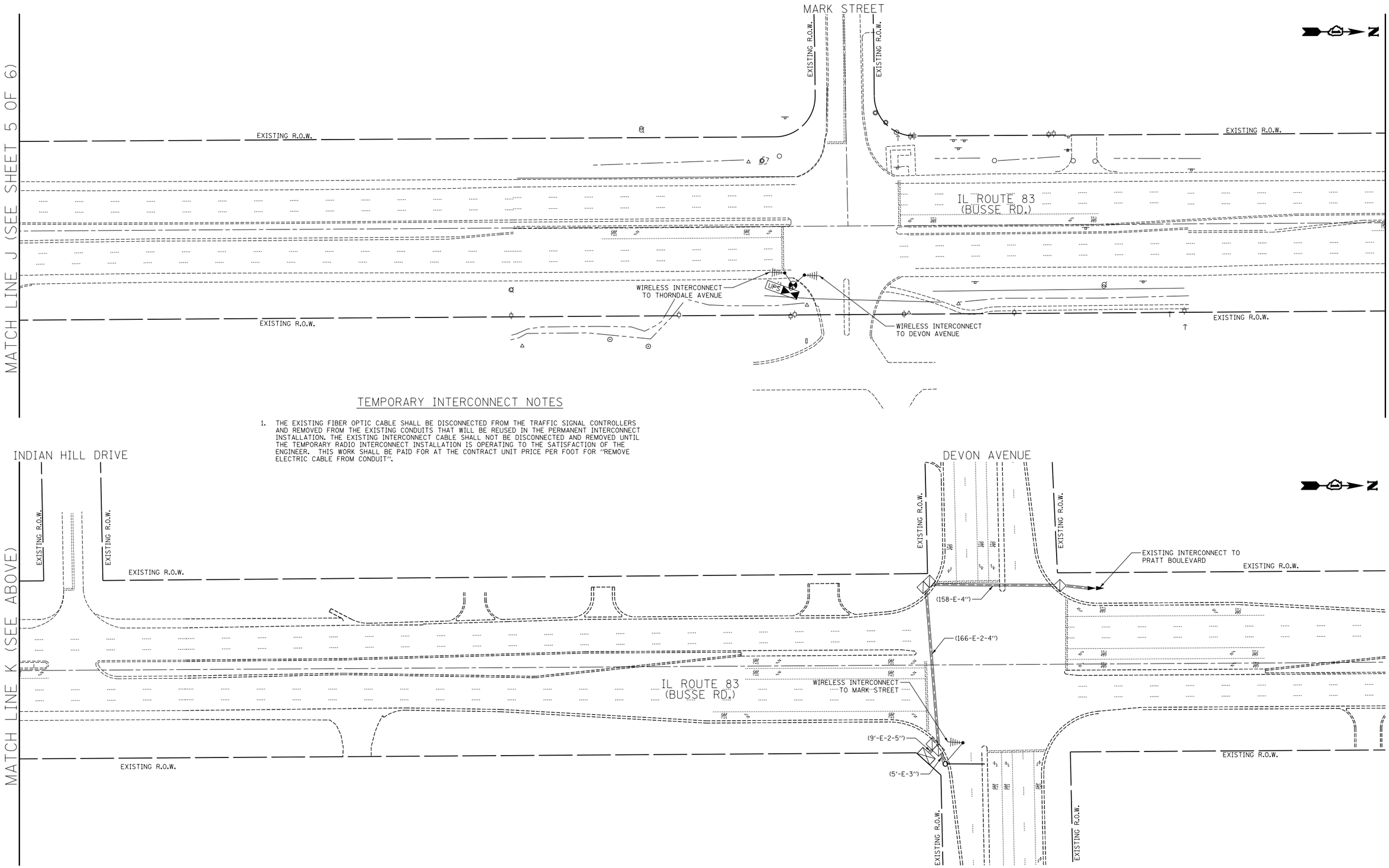
USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	55
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			



TEMPORARY INTERCONNECT NOTES

1. THE EXISTING FIBER OPTIC CABLE SHALL BE DISCONNECTED FROM THE TRAFFIC SIGNAL CONTROLLERS AND REMOVED FROM THE EXISTING CONDUITS THAT WILL BE REUSED IN THE PERMANENT INTERCONNECT INSTALLATION. THE EXISTING INTERCONNECT CABLE SHALL NOT BE DISCONNECTED AND REMOVED UNTIL THE TEMPORARY RADIO INTERCONNECT INSTALLATION IS OPERATING TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "REMOVE ELECTRIC CABLE FROM CONDUIT".

ECON 111

CIVILTECH

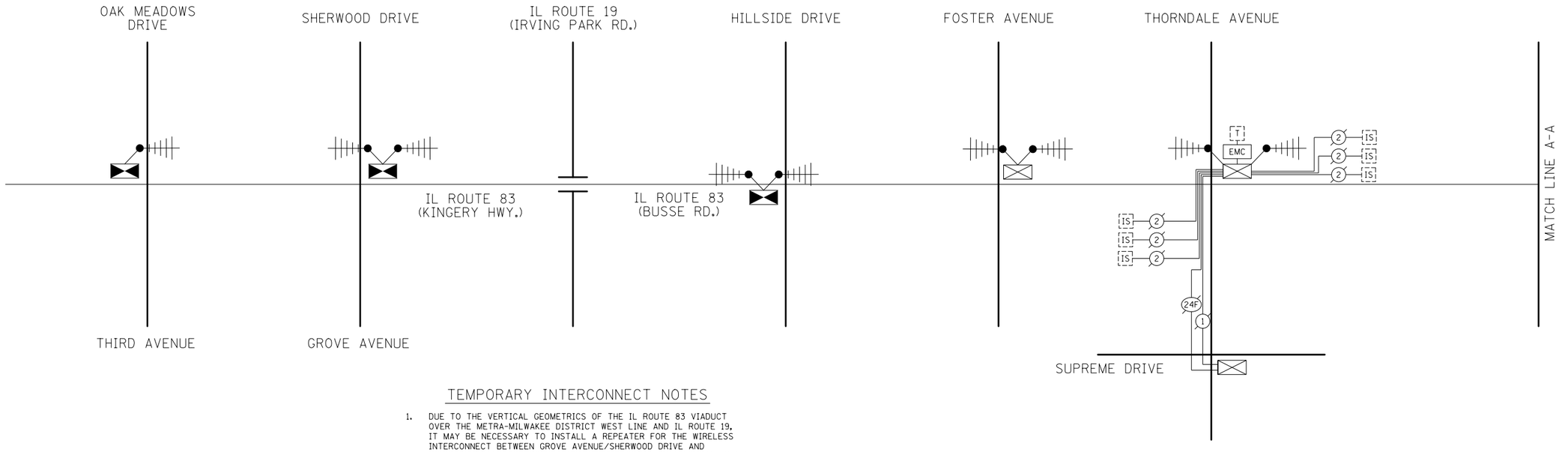
USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

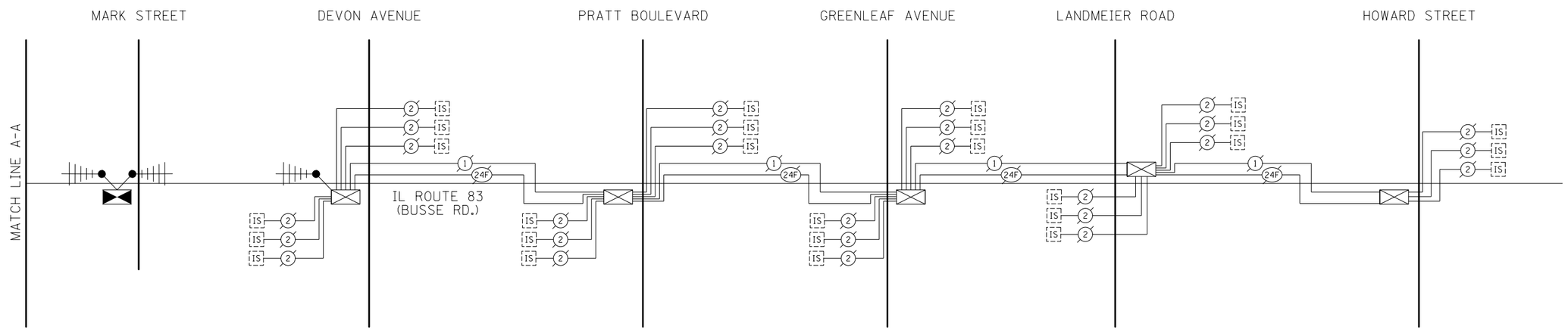
SCALE: 1" = 50' | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	56
		CONTRACT NO. 60X35		
	ILLINOIS	FED. AID PROJECT		



TEMPORARY INTERCONNECT NOTES

1. DUE TO THE VERTICAL GEOMETRICS OF THE IL ROUTE 83 VIADUCT OVER THE METRA-MILWAKEE DISTRICT WEST LINE AND IL ROUTE 19, IT MAY BE NECESSARY TO INSTALL A REPEATER FOR THE WIRELESS INTERCONNECT BETWEEN GROVE AVENUE/SHERWOOD DRIVE AND HILLSIDE DRIVE FOR PROPER SYSTEM COMMUNICATION. THE MATERIALS AND LABOR FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".



ECON 111

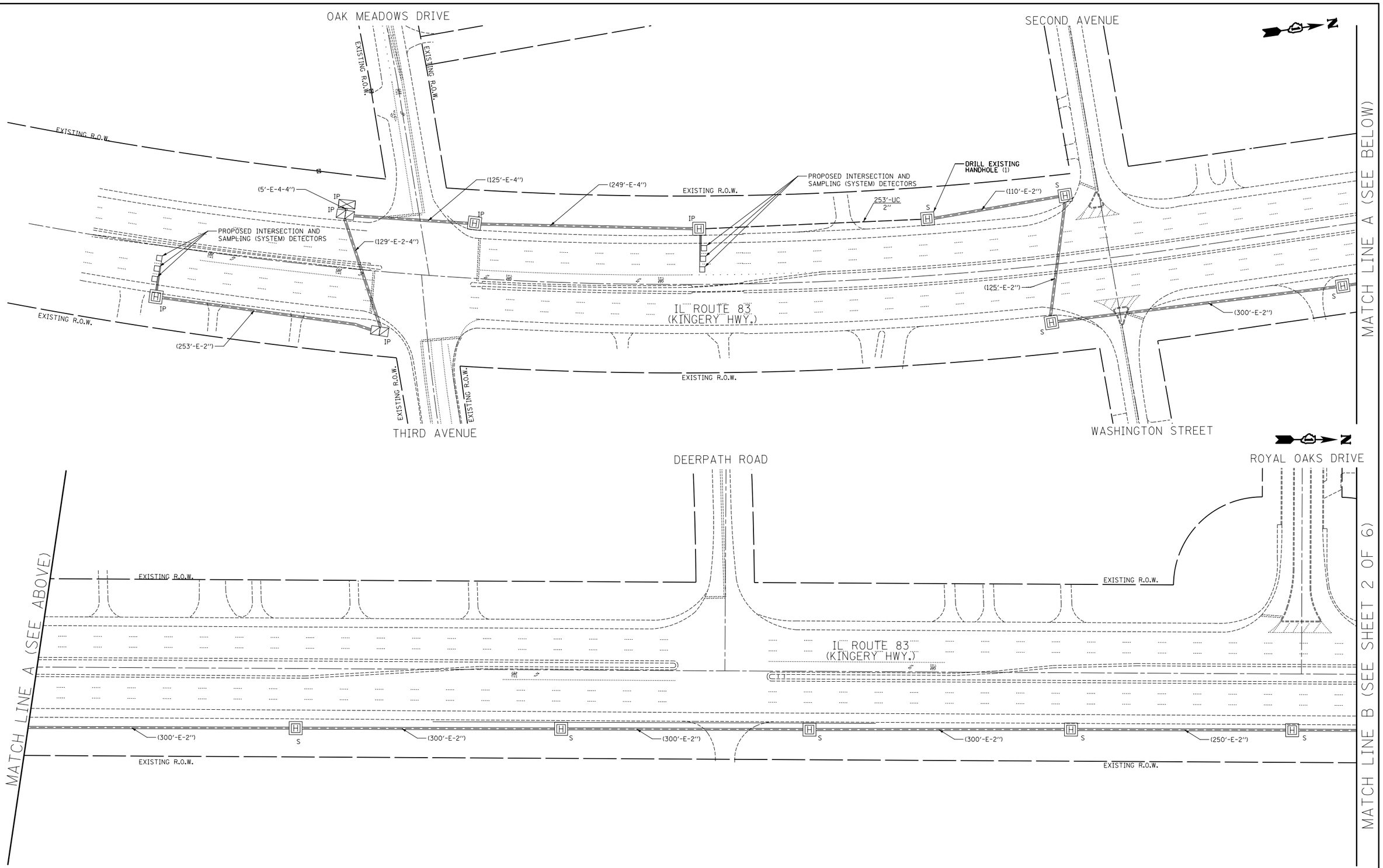
CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
IL ROUTE 83

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	57
		CONTRACT NO. 60X35		
	ILLINOIS	FED. AID PROJECT		



ECON 111

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	58
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

MATCH LINE B (SEE SHEET 1 OF 6)

SHERWOOD DRIVE

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

(5'-E-4-4")

(260'-E-4")

EXISTING R.O.W.

DRILL EXISTING HANDHOLE (1)

IP

IP

IP

257'-UC 2"

IL ROUTE 83 (KINGERY HWY.)

(250'-E-2")

S

(240'-E-2")

DRILL EXISTING HANDHOLE (1)

S

259'-UC 2"

IP

(261'-E-2")

IP

(143'-E-2-4")

EXISTING R.O.W.

(78'-E-4")

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

WOOD STREET

GROVE AVENUE

MATCH LINE C (SEE BELOW)

MONTROSE AVENUE

METRA MILWAUKEE DISTRICT-WEST LINE

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

IL ROUTE 19 (IRVING PARK RD.)

MATCH LINE C (SEE ABOVE)

EXISTING R.O.W.

(250'-E-2")

S

(250'-E-2")

S

(250'-E-2")

S

(210'-E-2")

S

(640'-E-ATS-2")

IL ROUTE 83 (KINGERY HWY.)

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

MATCH LINE D (SEE SHEET 3 OF 6)

ECON 111

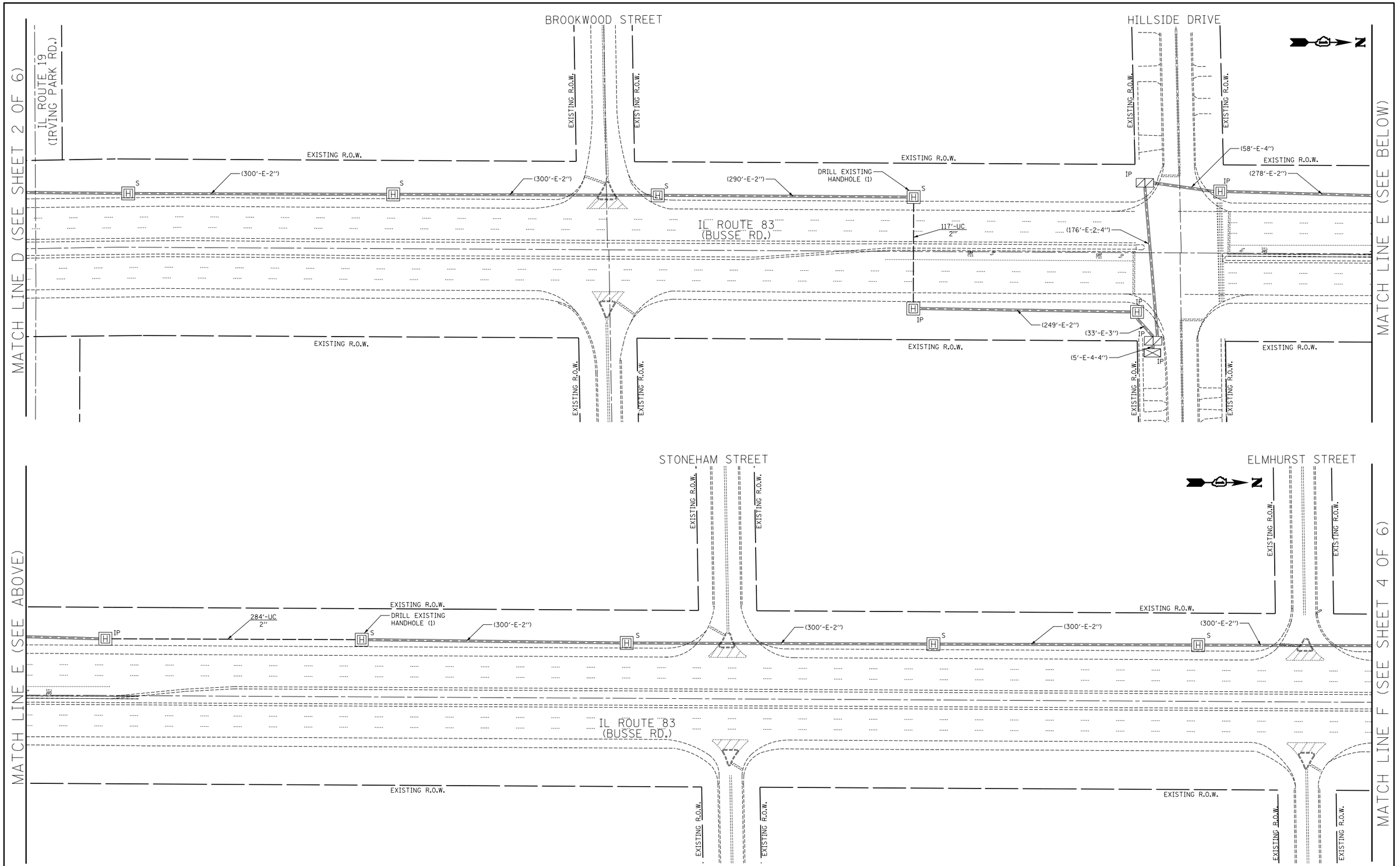
CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	59
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			



ECON 111

USER NAME = jrt	DESIGNED - BRD	REVISED -	
	DRAWN - JRT	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -	

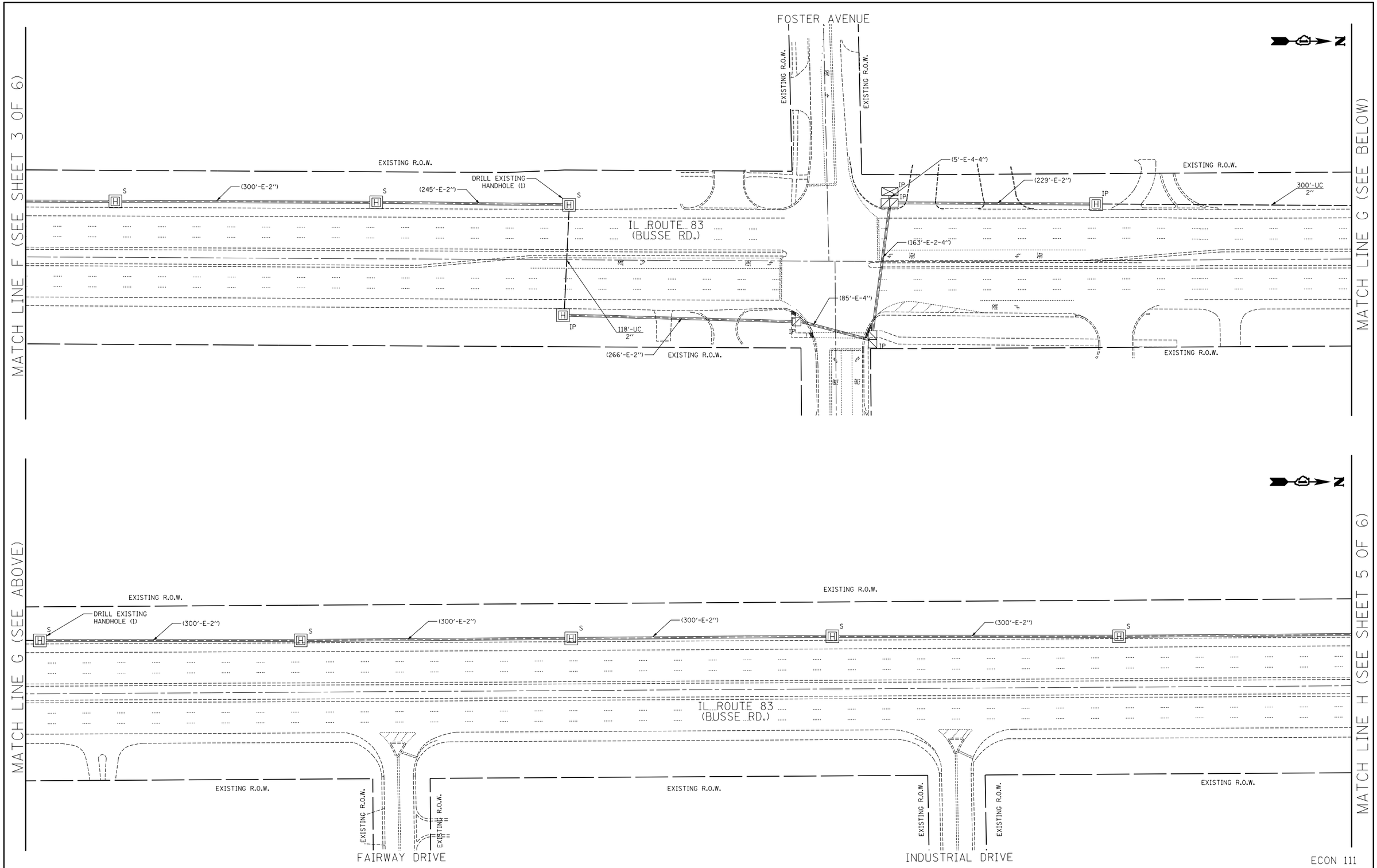
CIVILTECH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	60
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			



CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

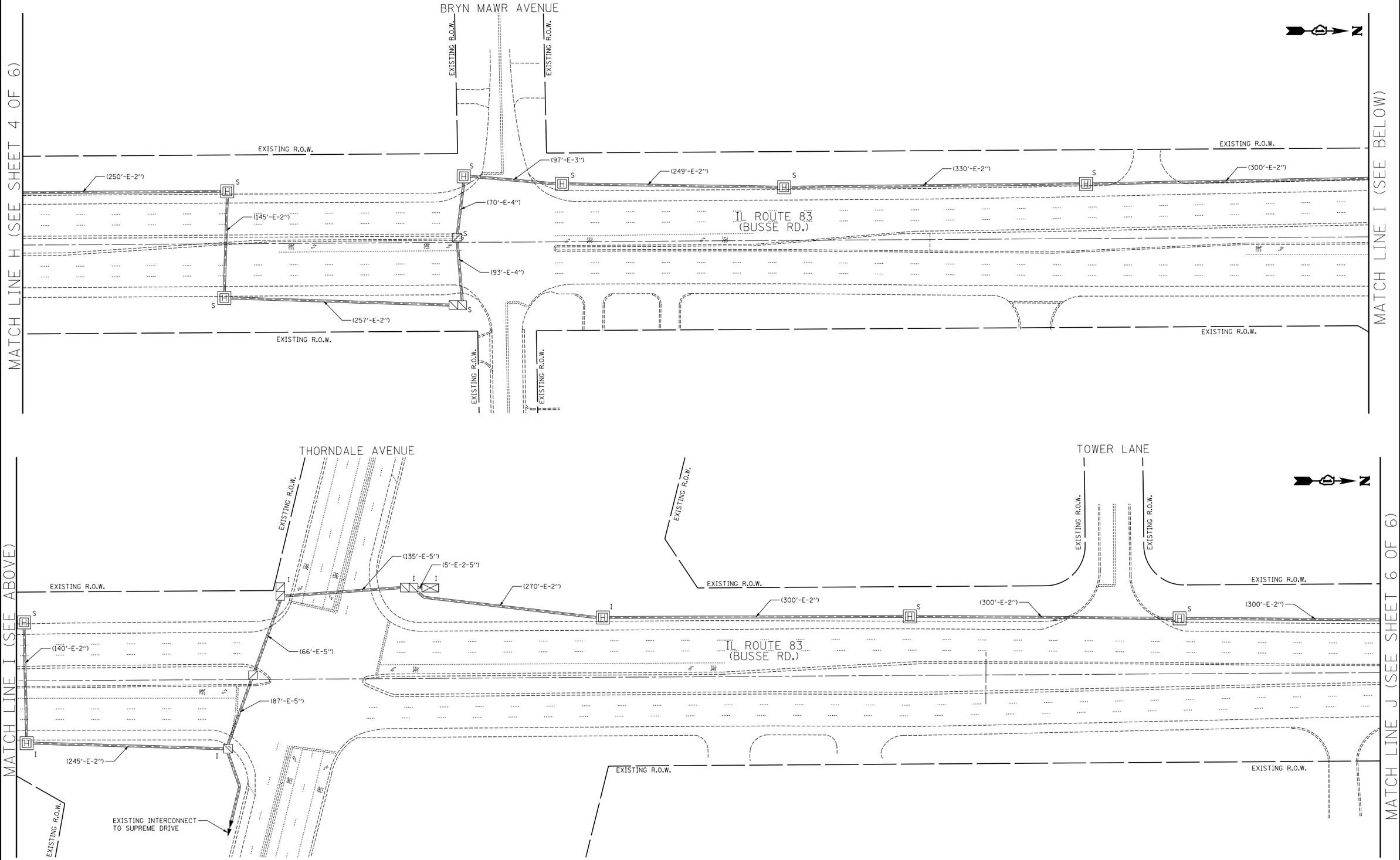
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	61
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

ECON 111



ECON 111

CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	62
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

MARK STREET

MATCH LINE J (SEE SHEET 5 OF 6)

MATCH LINE K (SEE BELOW)

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

(85'-E-4")

(255'-E-2")

301'-UC
2"

(300'-E-2")

DRILL EXISTING
HANDHOLE (1)

(250'-E-2")

IL ROUTE 83
(BUSSE RD.)

120'-UC
2"

(155'-E-2-4")

(247'-E-2")

(11'-E-4-4")

INDIAN HILL DRIVE

DEVON AVENUE

MATCH LINE K (SEE ABOVE)

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING INTERCONNECT TO
PRATT BOULEVARD

DRILL EXISTING
HANDHOLE (1)

(270'-E-2")

(250'-E-2")

(250'-E-2")

(158'-E-4")

IL ROUTE 83
(BUSSE RD.)

(126'-E-2")

(166'-E-2-4")

(261'-E-2")

(9'-E-2-5")

ECON 111

CIVILTECH

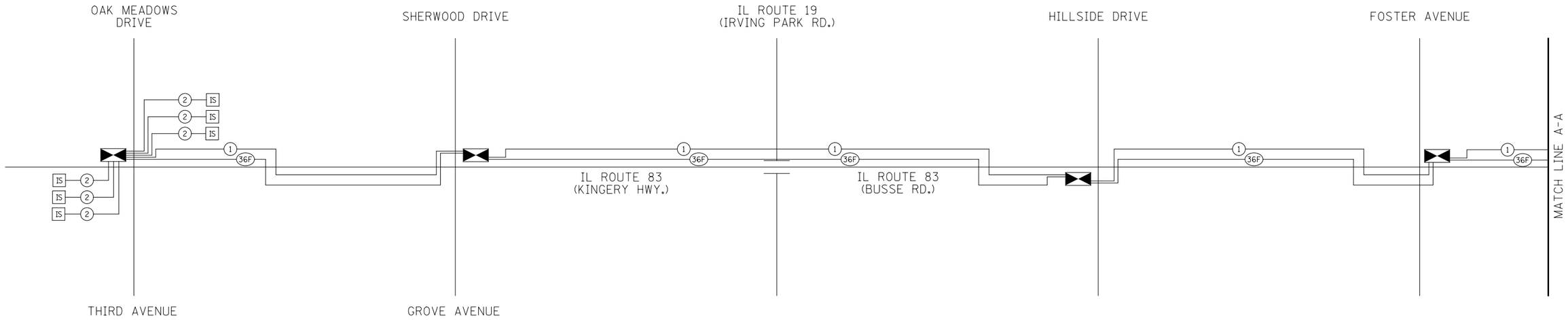
USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

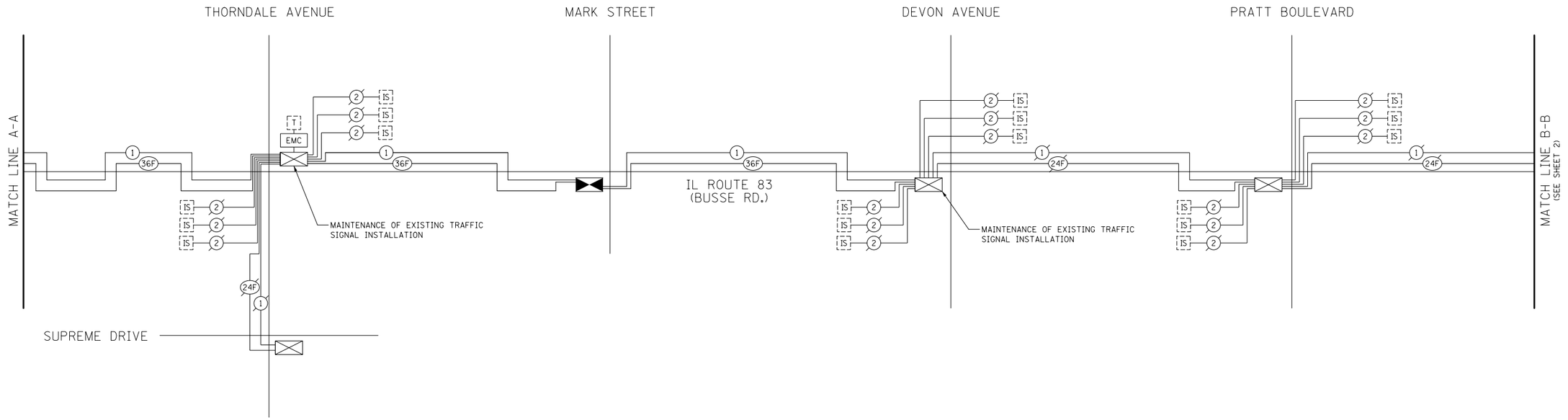
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 83
THIRD AVENUE /OAK MEADOWS DRIVE TO MARK STREET

SCALE: 1" = 50' | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	63
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			





ECON 111

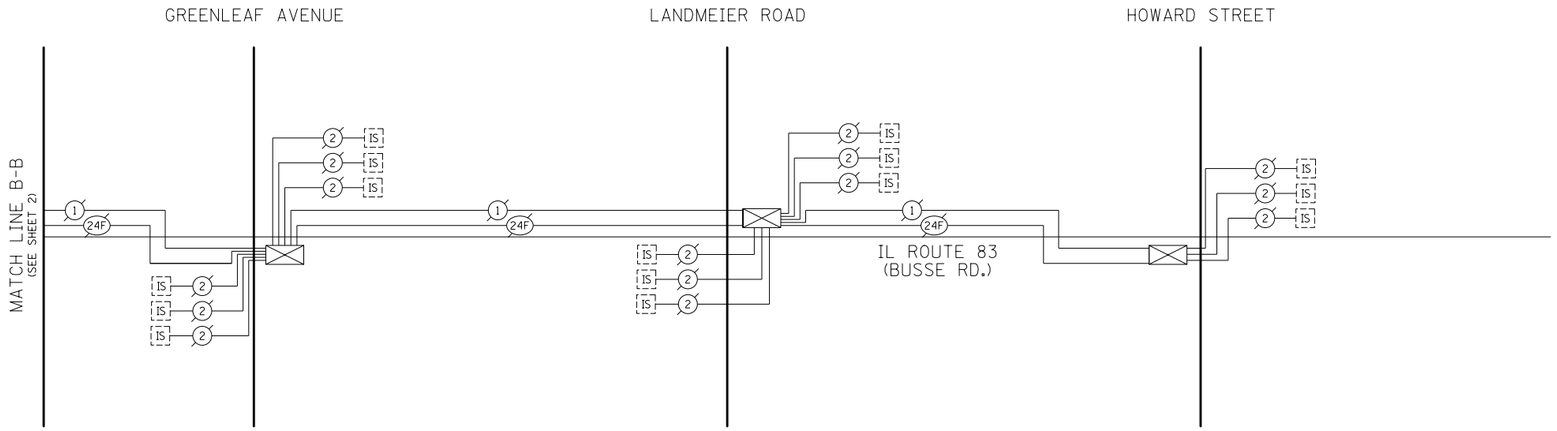
CIVILTECH	USER NAME = jrt	DESIGNED - BRD	REVISED -
		DRAWN - JRT	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
IL ROUTE 83

NO SCALE | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	64
		CONTRACT NO. 60X35		
	ILLINOIS	FED. AID PROJECT		



INTERCONNECT SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
CHANGEABLE MESSAGE SIGN	CAL MO	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2009
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	19423
DRILL EXISTING HANDHOLE	EACH	9
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	28483
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	19561
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
TRAINEES	HOURS	150

ECON 111

CIVILTECH

USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 1/29/2014	DATE - 01/30/2014	REVISED -

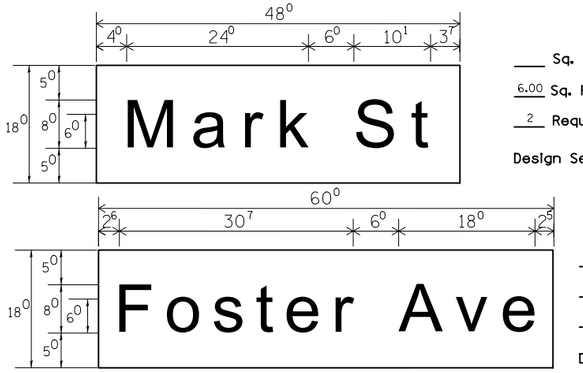
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
IL ROUTE 83

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	65
		CONTRACT NO. 60X35		
	ILLINOIS FED. AID PROJECT			

PANEL SIGN DESIGN TYPE 1 OR TYPE 2



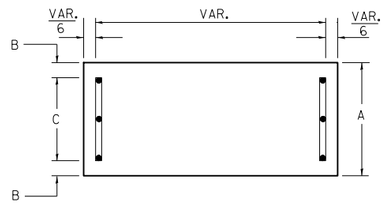
___ Sq. M. each
6.00 Sq. Ft. each
2 Required
Design Series D

___ Sq. M. each
7.50 Sq. Ft. each
2 Required
Design Series D

PANEL SIGN DESIGN TYPE 2

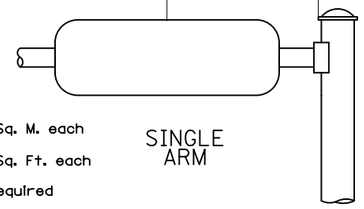
NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

SUPPORTING CHANNELS



A	B	C
18″	2″	14″

Mid-Point of Sign | VAR. TO 8 FT.(MAX.)



SINGLE ARM

___ Sq. M. each
18.75 Sq. Ft. each
1 Required
Design Series D

SUPPORTING CHANNELS

___ Sq. M. each
18.75 Sq. Ft. each
1 Required
Design Series D

A	B	C
18″	2″	12″
30″	2″	22″

DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

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.

Upper Case To Lower Case
Spacing Chart 8-6 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 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}

EXAMPLE, $2\overset{3}{\frown}$ DENOTES $\frac{3}{8}$″

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 = ...\CAD\Sheets\60X35-066.dgn	USER NAME = jrt	DESIGNED - DAG/BCK	REVISED - DAG 10/28/09
		DRAWN - BCK	REVISED - LP 01/01/14
	PLOT SCALE = 40.0000 ′ / in.	CHECKED - DAG/DAD	REVISED -
	PLOT DATE = 1/29/2014	DATE - 03-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NONE | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	66
	TS-02	CONTRACT NO. 60X35		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

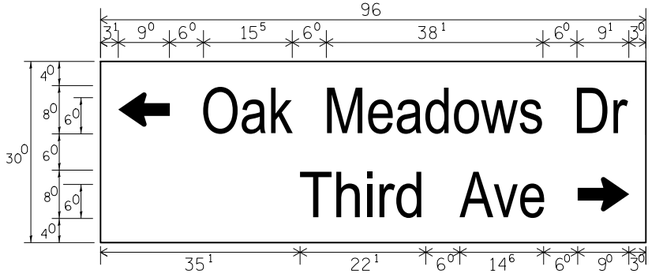
PANEL SIGN DESIGN TYPE 2

____ Sq. M. each

20.00 Sq. Ft. each

1 Required

Design Series C



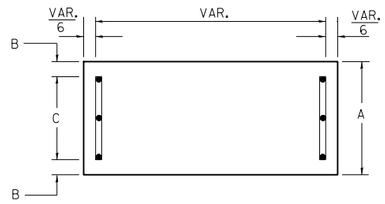
____ Sq. M. each

20.00 Sq. Ft. each

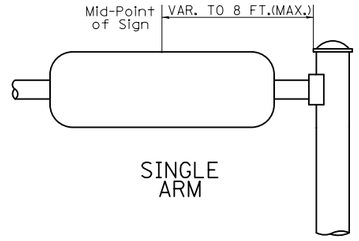
1 Required

Design Series C

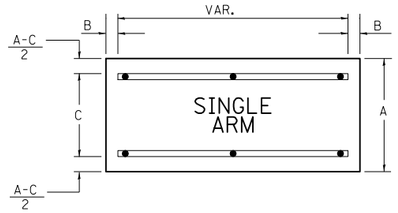
SUPPORTING CHANNELS



A	B	C
18″	2″	14″



SUPPORTING CHANNELS



A	B	C
18″	2″	12″
30″	2″	22″

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

GENERAL NOTES

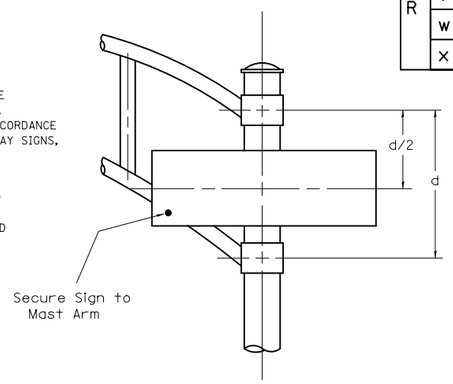
1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2′-6″ x 8′-0″ MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE 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.



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

Upper Case To Lower Case
Spacing Chart 8-6 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 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}

EXAMPLE, $2^{(3)}$ DENOTES $\frac{3''}{8}$

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}

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		DRAWN - BCK	REVISED - LP 01/01/14
	PLOT SCALE = 40.0000 ′ / in.	CHECKED - DAG/DAD	REVISED -
	PLOT DATE = 1/29/2014	DATE - 03-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NONE | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	67
	TS-02	CONTRACT NO. 60X35		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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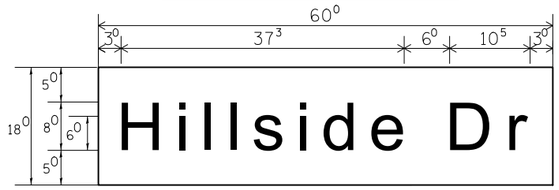
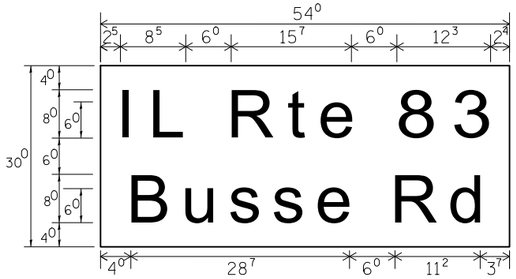
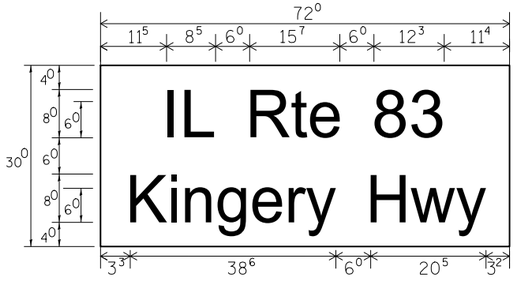


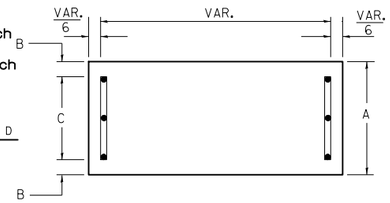
PANEL SIGN DESIGN TYPE 2





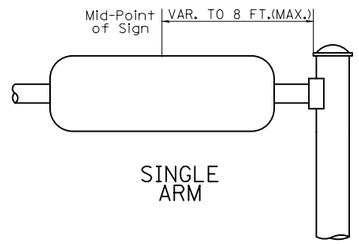
SUPPORTING CHANNELS

____ Sq. M. each
7.50 Sq. Ft. each
2 Required
Design Series D



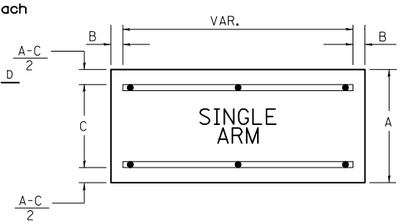
A	B	C
18″	2″	14″

____ Sq. M. each
11.25 Sq. Ft. each
6 Required
Design Series D



SUPPORTING CHANNELS

____ Sq. M. each
15.00 Sq. Ft. each
4 Required
Design Series D



A	B	C
18″	2″	12″
30″	2″	22″

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

GENERAL NOTES

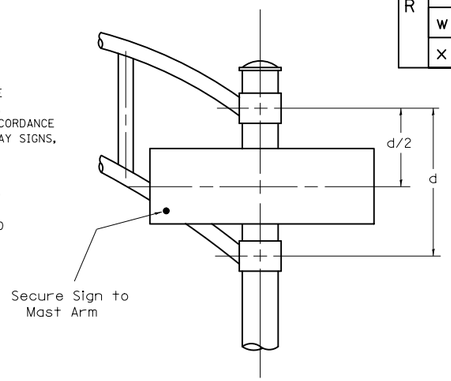
1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2′-6″ x 8′-0″ MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE 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 #HPNO53 (MED. CHANNEL)
SIGN SCREWS	¼″ x 14 x 1″ H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPNO34 (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.



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

Upper Case To Lower Case
Spacing Chart 8-6 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 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}

EXAMPLE, 2 (3) DENOTES $\frac{3''}{8}$

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}

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		DRAWN - BCK	REVISED - LP 01/01/14
	PLOT SCALE = 40.0000 ′ / in.	CHECKED - DAG/DAD	REVISED -
	PLOT DATE = 1/29/2014	DATE - 03-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NONE | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2013-063TS	DUPAGE	68	68
	TS-02	CONTRACT NO. 60X35		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		