F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DU PAGE	781	1
	ILLINOIS	CONTRACT NO. 60477		

*781-2+9=788
*788+5=793 ⚠1

D-91-397-97

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY CLASSIFICATION
PRINCIPAL ARTERIAL ROUTE :
(FROM ARMY TRAIL ROAD TO LAKE STREET)
SUBURBAN MINOR ARTERIAL :
(FROM LAKE STREET TO THE ELGIN–O'HARE EXPRESSWAY)

DESIGN DESIGNATION
3500(20) ARTERIAL 14.56 (PCC–20)

1 OF 2

TRAFFIC DATA
IL RTE 53
2002 ADT = 14,200 – 28,800
2020 ADT = 26,000 – 35,000

POSTED SPEED LIMIT = 40 MPH
DESIGN SPEED = 45 MPH

PROJECT DESCRIPTION

THE PROPOSED IMPROVEMENT CONSISTS OF THE WIDENING AND RECONSTRUCTION OF ILLINOIS ROUTE 53 ON THE EXISTING ALIGNMENT, NEW STORM SEWER SYSTEM, NOISE WALLS, DRY LAND BRIDGE, AND TRAFFIC SIGNAL MODERNIZATION.

100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

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

DISTRICT 1 - DESIGN/CONSULTANT SERVICES SECTION/ RAJENDRA SHAH (847) 705-4555

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED HIGHWAY

FAP ROUTE 870 / FAU ROUTE 2578 (ILLINOIS ROUTE 53)
ARMY TRAIL ROAD TO ELGIN O'HARE EXPRESSWAY
ROADWAY RECONSTRUCTION, ADDITIONAL LANES, DRY LAND BRIDGE CONSTRUCTION, TRAFFIC SIGNAL MODERNIZATION AND INTERCONNECT

SECTION 532B
PROJECT NO: ACF-0870(012)
DUPAGE COUNTY
C–91–397–97

END PROJECT
STA 250+34.81

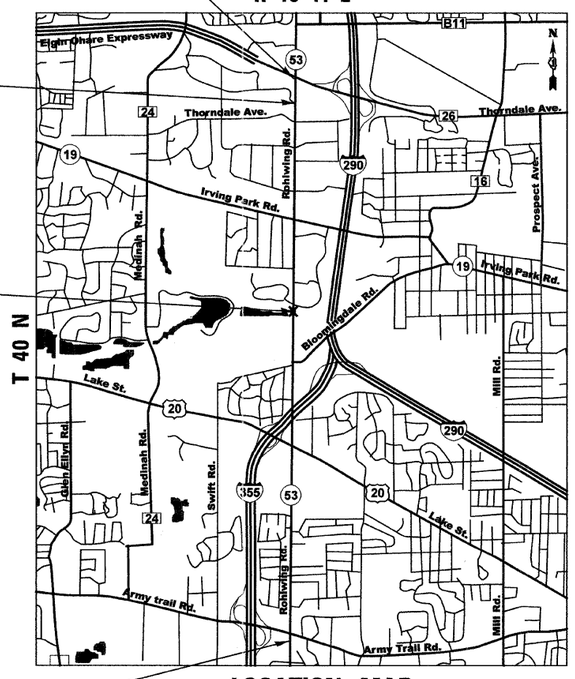
DRY LAND BRIDGE CONSTRUCTION:
STA. 240+30.00
STA. 246+40.00
SN:022–D012

STA. 157+28.20
STA. 170+12.58
IL RTE 53 OVER SPRING BROOK CREEK
SN:022–0189

PROJECT LOCATED IN THE VILLAGES OF ADDISON AND ITASCA

BEGIN PROJECT
STATION 35+66.56

R 10–11 E



LOCATION MAP
SCALE
1" = 2500'

GROSS LENGTH ILLINOIS RTE 53 = 21,468.25 FEET = 4.1 MILES
NET LENGTH ILLINOIS RTE 53 = 21,468.25 FEET = 4.1 MILES

JARROD J. CEBULSKI 062-050473 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

JARROD J. CEBULSKI, P.E.
NO. 062–050473
EXP. DATE: 11/30/11

ADAM D. JAMES 062-054506 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

ADAM D. JAMES, P.E.
NO. 062–054506
EXP. DATE: 11/30/11

5197 CHICAGO STRUCTURAL ENGINEER

ROGER DI GIULIO, S.E.
NO. 062–05197
EXP. DATE: 11/30/10

P.K. GANDHI 34993 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

P.K. GANDHI, P.E.
NO. 062–034993
EXP. DATE: 11/30/11

LOCATION OF SECTION INDICATED THUS: – ■ –

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 14 20 10
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
February 4 20 11
Scott E. Stitt, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT
February 4 20 11
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60477

⚠ Rev. 6-8-11

* SPECIALTY ITEM

URBAN

	SUMMARY OF QUANTITIES				CONSTRUCTION CODE																									
	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	0003	0008	0021																			0031	0040		0043
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
*	66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	0.5																								0.5
*	66900500	BETX SOIL ANALYSIS	EACH	1																									1
	66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5																								
	X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	24	24																								
	67100100	MOBILIZATION	L SUM	1	1																								
	X7010216	TRAFFIC CONTROL AND PROTECTION,(SPECIAL)	L SUM	1	1																								
	~~70102550~~	~~TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR~~	~~EACH~~	~~1~~	~~1~~																								
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	730	730																								
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	68	68																								
	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	1,797	1,797																								
	70300220	TERMPORARY PAVEMENT MARKING - LINE 4"	FOOT	100,663	100,663																								
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	7,607	7,607																								
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	708	708																								
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	456	456																								
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	217,904	217,904																								
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,550	1,550																								
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,200	1,200																								
	70500100	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	250	250																								
	70500615	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	3	3																								
	70500625	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2																								
*	72000100	SIGN PANEL - TYPE 1	SQ FT	1,710 (1)	1,316		22.5	55	33	7.5	55	30	31.5	55	15	33	15	31.5	(1)			10								
*	72000200	SIGN PANEL - TYPE 2	SQ FT	194			19.5		19.5	22.5	25	27.5	35	22.5		22.5			(1)										
*	72400100	REMOVE SIGN PANEL ASSEMBLY- TYPE A	EACH	101	101																								
*	72400200	REMOVE SIGN PANEL ASSEMBLY- TYPE B	EACH	26	26																								
*	72400310	REMOVE SIGN PANEL- TYPE 1	SQ FT	907	907																								
*	72400320	REMOVE SIGN PANEL- TYPE 2	SQ FT	197	197																								

(1) Rev. 6-8-11

PATRICK ENGINEERING
PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

USER NAME = Rdwy.Lisle	DESIGNED -	REVISED -
PLOT CONFIG= PDF(Grey_Large).plt	DRAWN -	REVISED -
PLOT SCALE = 1:50	CHECKED -	REVISED -
PLOT DATE = 12/3/2010	DATE - 12/3/2010	REVISED -

Illinois Department of Transportation

ILLINOIS ROUTE 53
SUMMARY OF QUANTITIES

SCALE: NA | SHEET S00-09 OF 20 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DUPAGE	781	12
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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* SPECIALTY ITEM

URBAN

	SUMMARY OF QUANTITIES				CONSTRUCTION CODE																								
	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	0003	0008	0021																			0021	0040		0043
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	21A	23	24	25
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	2,724	2,724																								
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,424	3,424																								
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	237	237																								
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	123	123																								
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	110	110																								
*	78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	6,750	6,750																								
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	55,870	55,870																								
*	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	32,466	32,466																								
*	78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	933	933																								
*	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	1,922	1,922																								
*	78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	2,657	2,657																								
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2,478	2,478																								
*	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	72	72																								
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	33	33																								
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	8																								
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	31,466	31,466																								
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	852	852																								
*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	2																					2				
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1																					1				
*	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	22,161			492	752	459	566	836	499	871	848	552	572	284	267	172		423	569	6574	7426	△1				
*	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	561			5	15	13	18	32	35	16	36	54	46	50	22	112		101	6							
*	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	982			116	33	95	21	71	51	87	43	83	78	112	66	26		56	44		△1					
*	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	851	△1		50	25	25	137	263	25	45	29	25	25	37	115			25	25							
*	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	5,244			202	618	188	123	676	388	130	600	172	144	183				72	70	1131	547	△1				
*	81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	75																		75							
*	81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	4715	△1							△1													1565	3150			
*	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	7274			186	984	375	382	863	477	478	812	501	500	458	462	191		303	302							
*	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	30																				30					

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PATRICK ENGINEERING
PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

USER NAME = Rdwy.Lisle	DESIGNED -	REVISED -
PLOT CONFIG= PDF(Grey_Large).plt	DRAWN -	REVISED -
PLOT SCALE = 1:50	CHECKED -	REVISED -
PLOT DATE = 12/3/2010	DATE - 12/3/2010	REVISED -

Illinois Department of Transportation

ILLINOIS ROUTE 53
SUMMARY OF QUANTITIES

SCALE: NA | SHEET SOQ-10 OF 20 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DUPAGE	781	13
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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* SPECIALTY ITEM

URBAN

SUMMARY OF QUANTITIES				CONSTRUCTION CODE																							
				0003	0008	0021																	0021	0040		0043	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	21A	23	24	25
* 81400100	HANDHOLE	EACH	92	⚠1		5	7	5	6	8	4	4	5	4	4	4	3	4 ⚠1		7	5	8	9					
* 81400200	HEAVY-DUTY HANDHOLE	EACH	31			1	4	2	2	4	4	2	4	2	2	3					1							
* 81400300	DOUBLE HANDHOLE	EACH	29			1	3	2	1	4	2	2	3	2	2	2	3			1	1							
* 81603090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	18,155																				3,416	14,739			
* 81603115	UNIT DUCT, 600V, 3-1C NO.1, 1/C NO.1 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	2,373																				2,373				
* 81800290	AERIAL CABLE, 3-1/C NO. 1/0 WITH MESSENGER WIRE	FOOT	2,626																				2,626				
* 81800415	AERIAL CABLE, 4-1/C NO. 6 WITH MESSENGER WIRE	FOOT	2,395																				2,395				
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	39,735			663	804	581	718	1095	573	984	928	670	660	429	371	279		613	563	6574	7426 ⚠2	4842	10,962			
* 82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4																						4		
* 82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	141																				76	65			
* 83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	89																				24	65			
* 83057350	LIGHT POLE, WOOD, 60 FOOT, CLASS 4	EACH	5																				5				
* 83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	32																				32				
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	930																				240	690			
* 83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	4																					4			
* 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	89																				24	65			
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	41																				41				
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	42																				42				
* 85000200 ⚠1	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4 ⚠1																		4 ⚠1						
* 85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	12			1	1	1	1	1	1	1	1	1	1	1					1							
* 85700305	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	2														1			1							
* 86000105	MASTER CONTROLLER (SPECIAL)	EACH	2																			1	1				
* 86400100	TRANSCEIVER-FIBER OPTIC	EACH	14			1	1	1	1	1	1	1	1	1	1	1	1			1	1						
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	12,511				2516	1232	427	596		1459	1753	1493	1480	1555 ⚠1											
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	25,573			280	4437	1769	1026	2212	1804	1914	2938	1865	1879	1965	930	306		417	1831 ⚠						
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	32,932			1561	4335	1049	2001	3768	1333	2211	3161	1290	1788	1488	2015	3225		1624	2083 ⚠						

⚠ Rev. 6-8-11 Rev.

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = Rdwy_Lisle	DESIGNED -	REVISED -	Illinois Department of Transportation	ILLINOIS ROUTE 53 SUMMARY OF QUANTITIES
	PLOT CONFIG= PDF(Grey_Largel.plt	DRAWN -	REVISED -		
	PLOT SCALE = 1:50	CHECKED -	REVISED -		SCALE: NA / SHEET S00-11 OF 20 / STA. / TO STA.
	PLOT DATE = 12/3/2010	DATE - 12/3/2010	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DUPAGE	781	14
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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* SPECIALTY ITEM

	SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION CODE																								
	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	0003	0008	0021																			0031	0040		0043
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	19,983			440	2291	1460	775	2416	1675	879	1955	1780	1750	2185	1950				427							
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	42,406			905	8666	1000	1434	8187	2394	2296	5699	1797	1954	1740	1377	2058		844	1455							
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	1,491			150	39	115	84	220	93	398	83	51	76	28	29			31	94							
*	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3				2			1																		
*	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	11									1						4		4	2							
*	87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	2																	1	1							
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	26			1		2	2	2	3	1	3	3	4	4	1											
*	87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2															1		1								
*	87700160	STEEL MAST ARM ASSEMBLEY AND POLE, 24 FT.	EACH	1																	1								
*	87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1						1																			
*	87700180	STEEL MAST ARM ASSEMBLEY AND POLE, 28 FT.	EACH	2			1		1																				
*	87700190	STEEL MAST ARM ASSEMBLEY AND POLE, 30 FT.	EACH	2																	1	1							
*	87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2					1													1							
*	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1			1																						
*	87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38FT.	EACH	5			1		1			1	1									1							
*	87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2						1			1																
*	87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	4											1	1	1		1										
*	87700260	STEEL MAST ARM ASSEMBLEY AND POLE, 44 FT.	EACH	3							1		1			1													
*	87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1											1														
*	87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	4					1			1				2													
*	87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1											1														
*	87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	2										1			1												
*	87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	2									1		1														
*	87700330	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	5						1				2			2												
*	87700340	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1														1											
*	87700400	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	3								1						2											
*	87700408	STEEL MAST ARM ASSEMBLY AND POLE, 64 FT.	EACH	1										1															
*	87700428	STEEL MAST ARM ASSEMBLY AND POLE, 74 FT.	EACH	1														1											
*	87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	2				1			1																		

Rev. 6-8-11

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
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USER NAME = Rdwy_Lisle	DESIGNED -	REVISED -	
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PLOT SCALE = 1:50	CHECKED -	REVISED -	
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Illinois Department of Transportation

ILLINOIS ROUTE 53
SUMMARY OF QUANTITIES

SCALE: NA | SHEET SOQ-12 OF 20 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DUPAGE	781	15
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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* SPECIALTY ITEM

	SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION CODE																							
	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	0003	0008	0021																		0031	0040		0043
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
*	87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	2							2																	
*	87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1							1																	
*	87703010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1				1																				
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	176 /1			4	8	8	8	12	12 /1	8	12	12	16	16	4	20		24	12							
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	56			4	4	4	4	4	4	4	4	4	4	4	4			4	4							
*	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	40 /1			10		10	10 /1											10								
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	408 /1			22	29	35	13	58	37	52	15 /1	56	52	28		27		11	33	/1						
*	87900200	DRILL EXISTING HANDHOLE	EACH	5 /1															4	/1				1					
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	101			6	12	6	6	8	6	8	8	6	6	5	6	6	3	4	5							
*	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	17 /1			3			2			2						4	3	3		/1						
*	88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1																		1							
*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	21 /1			1		4	2		4	2		2	2	2 /1	2 /1											
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	44			1	6	4	2	4	4	2	4	4	4	5	4											
*	88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4															1	1	2								
*	88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1													1												
*	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	17 /1				2			4		/1	4	2	2	1	2 /1											
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	30 /1				2	4	2	2			4 /1	4	4	8												
*	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	17 /1				2	2	1	1		4 /1	3	2	2													
*	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	149 /1			7	18	10	8	12	10	10	12	10	10	10	10	8	2 /1	4	8	/1						
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	136 /1			5	23	8	6	21	9	9	18	8	8	9 /1	3			4	5							
*	88600100	DETECTOR LOOP, TYPE I	FOOT	853					64				44			66			117			562							
*	■ 88700200	LIGHT DETECTOR	EACH	26 /1			2	4	3	2	4							1 ▲	1	4	2	/3							
*	■ 88700300	LIGHT DETECTOR AMPLIFIER	EACH	7			1	1	1	1	1										1	1							
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	65 /1				10	8	4	3		8 /1	8	8	8	8												
*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	12				1		1	1	1		1	1	1	1	1	1		1	1							
*	▲ 89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	17 /1								2	2	4 /1	2	2	2	3 /1											

▲ 100% ITASCA

■ 100% ADDISON

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PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com
PATRICK ENGINEERING

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Illinois Department of Transportation

ILLINOIS ROUTE 53
SUMMARY OF QUANTITIES

SCALE: NA | SHEET S00-13 OF 20 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DUPAGE	781	16
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* SPECIALTY ITEM

URBAN

	SUMMARY OF QUANTITIES				CONSTRUCTION CODE																							
	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	0003	0008	0021																		0031	0040		0043
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
*	▲ 89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	7								1	1	1	1	1	1	1										
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	(10,384) Δ1															(2370)	Δ1 1701			(5341)	Δ1 972				
*	89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	35			35																					
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	12				1			1	1		1	1	1	1	1	1	1	1	1						
*	89502380	REMOVE EXISTING HANDHOLE	EACH	(126) Δ1			2	15			12	11	3	(11) Δ1	10	8	8	8	3		8	7	(1) Δ1	19					
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	(96) Δ1				10			9	9		9	9	9	9	9	6		9	(8) Δ1							
*	89502500	REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2			1						1															
*	B2013468	TREE, MALUS GOLDEN RAINDROPS (GOLDEN RAINDROPS CRABAPPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	28																					28			
*	B2005469	TREE, PRUNUS VIRGINIANA SCHUBERT (SCHUBERT CANADA RED CHOKECHERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	44																					44			
*	A2002564	TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 5' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	5																					5			
*	A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	21																					21			
*	A2004820	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	7																					7			
*	A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	35																					35			
*	A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	18																					18			
*	A2006616	TREE, QUERCUS IMBRICARIA (SHINGLE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	24																					24			
*	A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	17																					17			
*	B2001616	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	22																					22			
*	B2001666	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	21																					21			
*	B2003716	TREE, MALUS INDIAN SUMMER (INDIAN SUMMER CRABAPPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	21																					21			
*	B2006116	TREE, SYRINGA PEKINENSIS MORTON (CHINA SNOW PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	47																					47			
*	B2006266	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	35																					35			

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PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
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Illinois Department of Transportation

ILLINOIS ROUTE 53
SUMMARY OF QUANTITIES

SCALE: NA | SHEET SOQ-14 OF 20 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DUPAGE	781	17
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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* SPECIALTY ITEM

	SUMMARY OF QUANTITIES			CONSTRUCTION CODE																								
CODE NO.	ITEM DESCRIPTION	UNIT	URBAN TOTAL	0003	0008	0021																	0021	0040		0043	0043
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	21A	23	24	25	26
* 87300925	ELECTRIC CABLE IN CONDUIT , TRACER,NO. 14 1C	FOOT	26,409 /1																			14,575	11,834 /1					
X0323005	AUXILIARY VALVE AND BOX (VALVE)	EACH	9																								9	
X0323160	VIDEO INSPECTION OF STORM SEWER	FOOT	7,344	7,344																								
* 88600700	PREFORMED DETECTOR LOOP	FOOT	12,355 /1			472	1331	667	521 /1	1233	1224	868 /1	1195 /1	1290	1220 /1	1719 /1	113	117		385 /1									
* X0323792	LIGHTING CONTROLLER, SINGLE DOOR, CONSOLE TYPE	EACH	2																						2			
X0323840	WATER MAIN LINE STOP 6"	EACH	4																								4	
X0323841	WATER MAIN LINE STOP 8"	EACH	4																								4	
X0323842	WATER MAIN LINE STOP 12"	EACH	14																								14	
* Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	104																					35	69			
X0325012	CONNECTIONS TO EXISTING WATER MAINS (NON-PRESSURE) - 10"	EACH	6																								1	5
* X0325134	WIRELESS INTERCONNECT (COMPLETE)	EACH	3																			2	1					
X0325318	LIGHTWEIGHT CELLULAR CONCRETE FILL	CU YD	2,361	2,361																								
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	7,408	7,408																								
X0325598	DRAINAGE SCUPPERS, DS-12M10	EACH	14		14																							
* Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1 /1																			0.5	0.5 /1					
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	14			1	1		1	1	1	1	1	1	1	1	1	1		1	1							
X0325846	ABANDONMENT OF EXISTING WATER MAINS	LSUM	1																								0.5	0.5
X0325885	STEEL CASING PIPE AUGERED AND JACKED 36"	FOOT	160																								160	
* 88102757	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2 /1				2			2 /1																		
X0008401	BOX CULVERT REMOVAL	FOOT	526	526																								
Z0062456	TEMPORARY PAVEMENT	SQ YD	53,453	53,453																								
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	84	84																								
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	70	70																								
X4023000	TEMPORARY ACCESS (ROAD)	EACH	23	23																								
X6020088	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1																								
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	448,624	448,624																								

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LISLE, IL 60532
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Illinois Department of Transportation

ILLINOIS ROUTE 53
SUMMARY OF QUANTITIES

SCALE: NA | SHEET SOQ-16 OF 20 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DUPAGE	781	19
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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* SPECIALTY ITEM

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION CODE																								
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	0003	0008	0021																			0031	0040		0043
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
X7030040	REFLECTIVE WET TEMPORARY TAPE TYPE III, 6 INCH	FOOT	65,013	65,013																								
X7030050	REFLECTIVE WET TEMPORARY TAPE TYPE III, 12 INCH	FOOT	6,497	6,497																								
X7030025	REFLECTIVE WET TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	16,038	16,038																								
* 80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1									1																
* 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	13			1	1	1	1	1	1		1	1	1	1	1			1	1							
* 86200120	UNINTERRUPTIBLE POWER SUPPLY	EACH	15 /1			1	1	1	1	1	1	1	1	1	1	1	1	1 /1	/1	1	1							
* 87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	26,825 /1								/1				/1							14,809	12,016 /1					
* 87301900	EQUIPMENT GROUNDING CONDUCTOR ELECTRIC CABLE IN CONDUIT, NO. 6 1C	FOOT	11,729 /1			586	929	706	756	1179	659	1007 /1	845	667	854	720	770	699	/1	690	662 /1							
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 2 3/C, TWISTED, SHIELDED	FOOT	12,499 /1			280	1270	481	571	1291	356	399	1129	317	343	363	930	306	1772	1071	1620 /1							
X8900040	MODIFY TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2			1						1																
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	246,425	246,425																								
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1																								
Z0018800	DRAINAGE SYSTEM	L SUM	1		1																							
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	10	10																								
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	6	6																								
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1																								
* Z0054400	ROCK FILL	CU YD	219	219																								
Z0067000	STEEL CASINGS 6"	FOOT	125																				125					
~~Z0076600~~	~~TRAINEES~~	~~HOUR~~	~~7,500~~	~~7,500~~																								
X0327083	ACCESS SHAFT	EACH	3																									3
X0327084	AUXILIARY VALVE BOX EXTENSION	FOOT	4																									4
X0327085	CASING PIPE, OPEN CUT, 20" PVC	FOOT	30																									30
X0327202	CASING PIPE, OPEN CUT, 24" PVC	FOOT	75																									75
* X0327203	CASING PIPE, OPEN CUT, 24" STEEL	FOOT	65																									65
44201723	CLASS D PATCH, TYPE IV, 6 INCH ES	SQ YD	1,750																									1,750
	~~COMBINATION CONCRETE CURB AND GUTTER~~	~~FOOT~~	~~60~~																									~~60~~

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REVISED -	Illinois Department of Transportation	ILLINOIS ROUTE 53 SUMMARY OF QUANTITIES
REVISED -		
REVISED -		
REVISED -		SCALE: NA SHEET SOQ-17 OF 20 STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DUPAGE	781	20
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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* SPECIALTY ITEM

SUMMARY OF QUANTITIES		UNIT	URBAN TOTAL	CONSTRUCTION CODE																										
CODE NO.	ITEM DESCRIPTION			0003	0008	0021																			0031	0040		0043	0043
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
~~88102757~~	~~PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED~~	~~EACH~~	~~4~~				~~2~~			~~2~~																			
56400400	FIRE HYDRANTS TO BE RELOCATED WITH COUNTDOWN TIMER	EACH	18																									18	
Z0044700	PRESSURE CONNECTION 8" x 6"	EACH	1																										1
X0327086	SANITARY MANHOLE NO. 1	EACH	1																									1	
Z0044800	PRESSURE CONNECTION 8" x 8"	EACH	2																										2
X0327087	SANITARY MANHOLE NO. 2	EACH	1																									1	
X0327088	SANITARY MANHOLE NO. 3	EACH	1																									1	
X0327089	SANITARY MANHOLE NO. 4	EACH	1																									1	
X0327090	SANITARY MANHOLE NO. 5	EACH	1																									1	
X0327091	SANITARY MANHOLE NO. 6	EACH	1																									1	
XX004689	SANITARY SERVICE TO BE ADJUSTED	EACH	4																									4	
XX003673	SANITARY SERVICE REPLACEMENT	EACH	3																									3	
X0327193	SANITARY SEWER GROUND MODIFICATIONS/STABILIZATION	LSUM	1																									1	
X0327187	SANITARY SEWER, DUCTILE IRON PIPE, CLASS 50, 16"	FOOT	30																									30	
* X0327072	SANITARY SEWER, PVC (D3034), SDR 26, 15"	FOOT	30																									30	
X0327194	SANITARY SEWER, PILOT TUBE MICROTUNNELING METHOD INSTALLED, 15" DIAMETER	LSUM	1																									1	
* 88001640	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	1																	1									
X0327190	STEEL CASING PIPE, AUGERED AND JACKED, 24"	FOOT	408																									290	118
X0327073	STEEL CASING PIPE, AUGERED AND JACKED, 42"	FOOT	110	110																									
* 87704554	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 54 FT. AND 46 FT.	EACH	1				1																						
* 87704559	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 60 FT. AND 34 FT.	EACH	1				1																						
~~87702433~~	~~STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 55 FT.~~	~~EACH~~	~~1~~							~~1~~																			
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1																									1	
550B0310	STORM SEWERS, CLASS B, TYPE 2 6"	FOOT	4																									4	
550B0320	STORM SEWERS, CLASS B, TYPE 2 8"	FOOT	2																									2	
* A2012116	TREE, AESCULUS X AUTUMN SPLENDOR (AUTUMN SPLENDOR BUCKEYE), 2" CALIPER, BALLED AND BURLAPPED	EACH	16																						16				
* B2003074	TREE, MALUS CARDINAL (CARDINAL CRABAPPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	23																						23				
* B2005410	TREE, PRUNUS FAURIEI WESTWOOD (KOREAN SUN FAURIEI PEAR), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	17																						17				

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Illinois Department of Transportation

ILLINOIS ROUTE 53
SUMMARY OF QUANTITIES

SCALE: NA | SHEET SOQ-19 OF 20 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	Rev.
2578	532B	DUPAGE	781	22	
		CONTRACT NO. 60477			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

* SPECIALTY ITEM

	SUMMARY OF QUANTITIES		URBAN	CONSTRUCTION CODE																										
	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	0003	0008	0021																			0031	0040		0043	0043
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
*	A2008468	TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM), 2" CALIPER, BALLED AND BURLAPPED	EACH	21																						21				
	~~Z0056600~~	~~STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH~~	~~FOOT~~	~~670~~																									~~670~~	
	Z0056611	STORM SEWER (WATER MAIN REQUIREMENTS) 16 INCH	FOOT	590																									590	
	~~Z0056612~~	~~STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH~~	~~FOOT~~	~~160~~																									~~160~~	
	~~Z0056616~~	~~STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH~~	~~FOOT~~	~~500~~																									~~500~~	
	X0327191	WATER MAIN RELOCATION 8"	EACH	4																									4	
	X0327192	WATER MAIN RELOCATION 12"	EACH	15																									15	
	XX003531	WATER SERVICE CONNECTION, 1"	EACH	3																									3	
	XX003532	WATER SERVICE CONNECTION, 1.5"	EACH	7																									7	
	XX004997	WATER SERVICE CONNECTION, 2"	EACH	8																									8	
	56200300	WATER SERVICE LINE 1"	FOOT	140																									140	
	56200500	WATER SERVICE LINE 1 1/2"	FOOT	390																									390	
	56200700	WATER SERVICE LINE 2"	FOOT	500																									500	
	31200502	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4 1/2"	SQ YD	207,432	207,432																									
	42000506	PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)	SQ YD	191,097	191,097																									
	Z0067300	STEEL CASINGS 12"	FOOT	100																										100
	Z0067500	STEEL CASINGS 16"	FOOT	285																										285
*	87702630	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 44 FT.	EACH	1																										
*	88024130	OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3		1																								
*	88030012	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	2																										
*	88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1																										
*	~~X8140074~~	~~GROUNDING EXISTING HANDHOLE FRAME AND COVER~~	~~EACH~~	~~3~~																										

1 3 1

1 1 1

1 1

3 1

⚠1 Rev. 6-8-11 Rev.

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

USER NAME = Rdwy.Lisle	DESIGNED -	REVISED -
PLOT CONFIG= PDF(Grey_Large).plt	DRAWN -	REVISED -
PLOT SCALE = 1:50	CHECKED -	REVISED -
PLOT DATE = 12/3/2010	DATE - 12/3/2010	REVISED -

Illinois Department of Transportation

ILLINOIS ROUTE 53
SUMMARY OF QUANTITIES

SCALE: NA | SHEET SOQ-20 OF 20 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DUPAGE	781	23
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

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

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

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

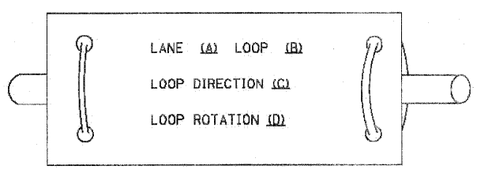
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

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

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

LOOP LEAD-IN CABLE TAG

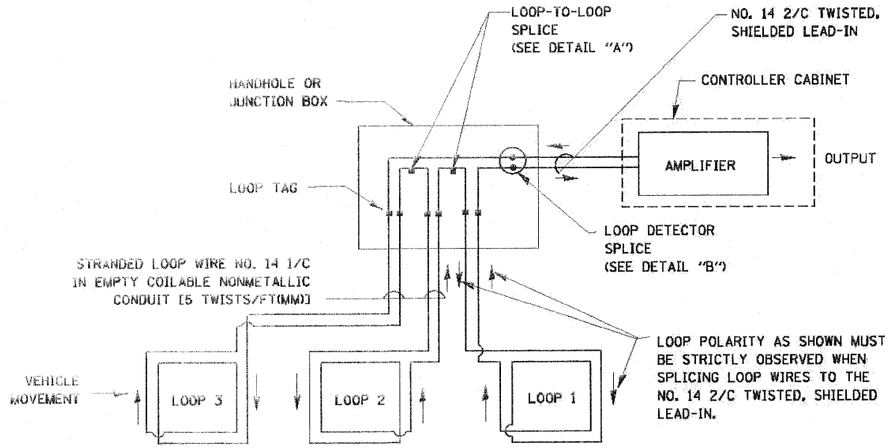


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

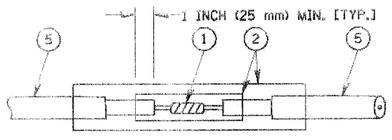
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

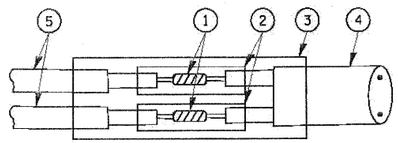


DETECTOR LOOP WIRING SCHEMATIC

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

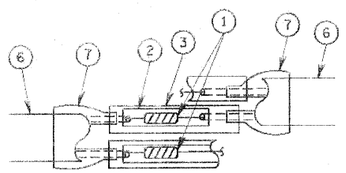


DETAIL "A"
LOOP-TO-LOOP SPLICE



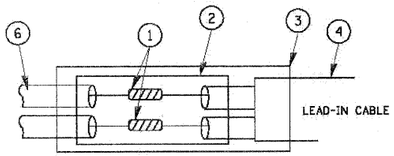
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

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

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

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

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

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

Rev. 6-8-11

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - DAD	REVISED -
	PLOT DATE = $DATE$	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

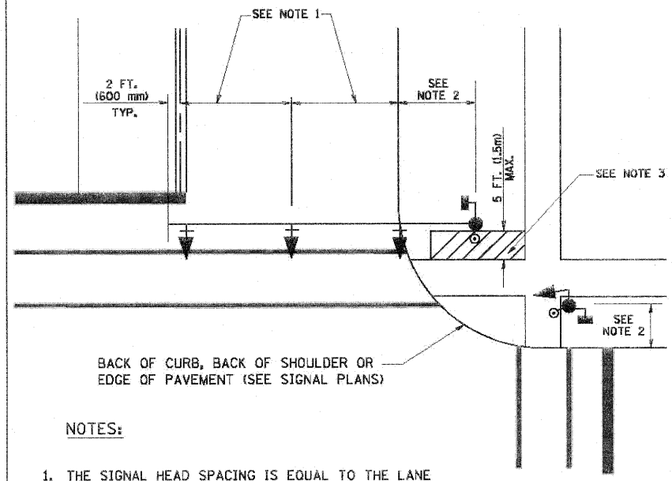
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	425
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

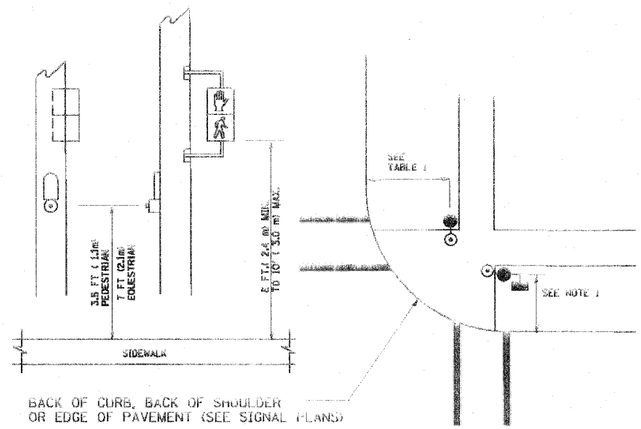
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

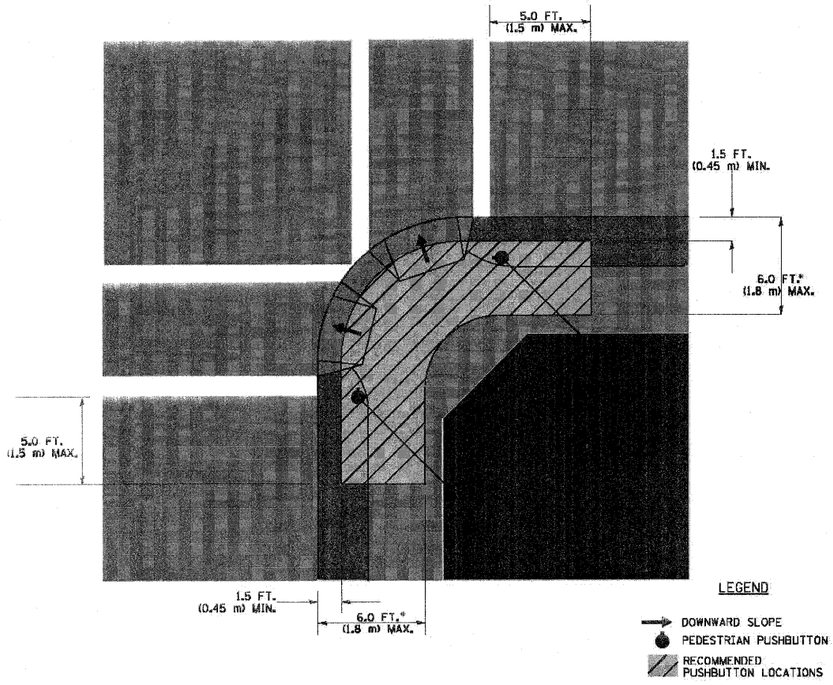
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

⚠ Rev. 6-8-11

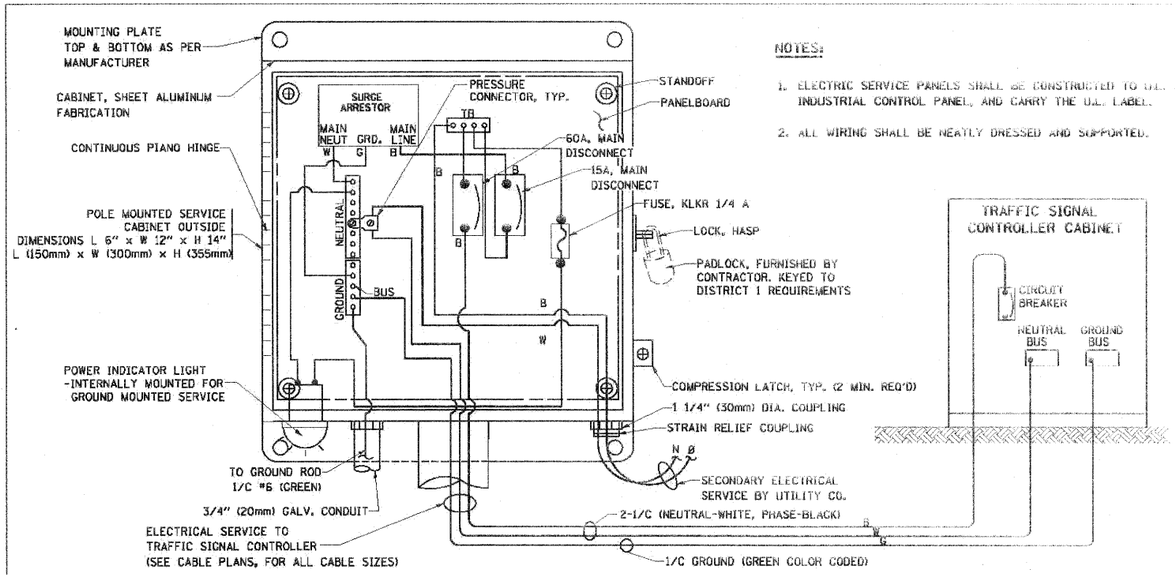
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - DAD	REVISED -
	PLOT DATE = $DATE$	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	426
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

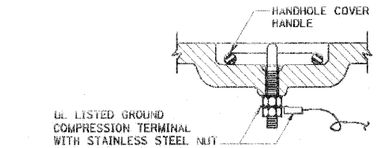
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

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

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

DETAIL "A"

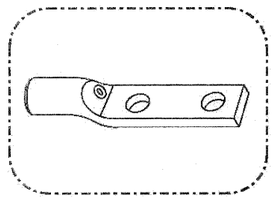


DETAIL "B"

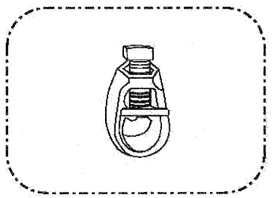
NOTES:

GROUNDING SYSTEM

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



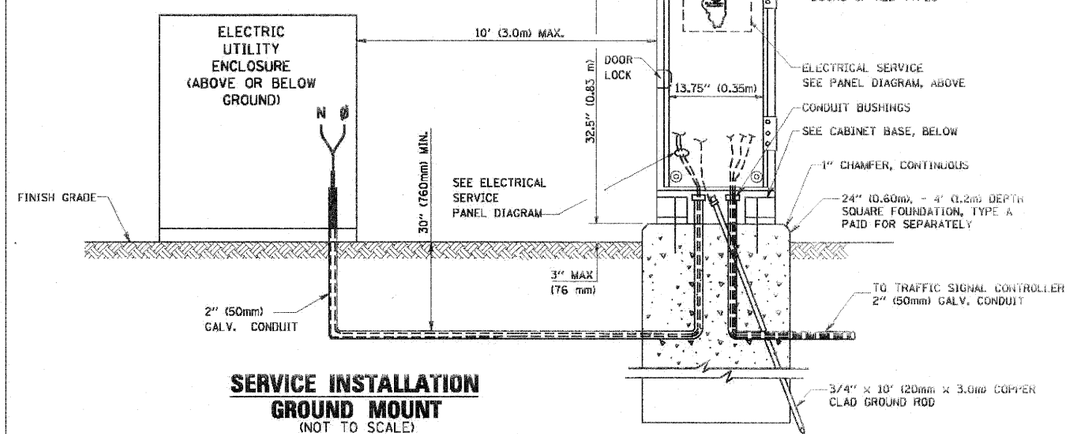
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

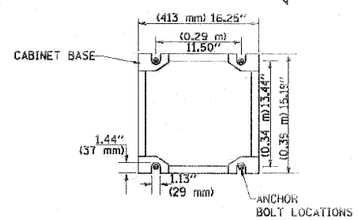
NOTES:

* 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.



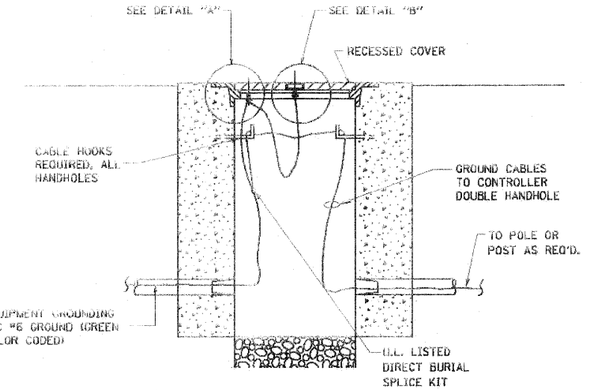
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



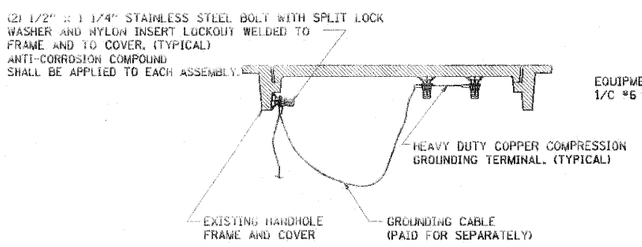
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



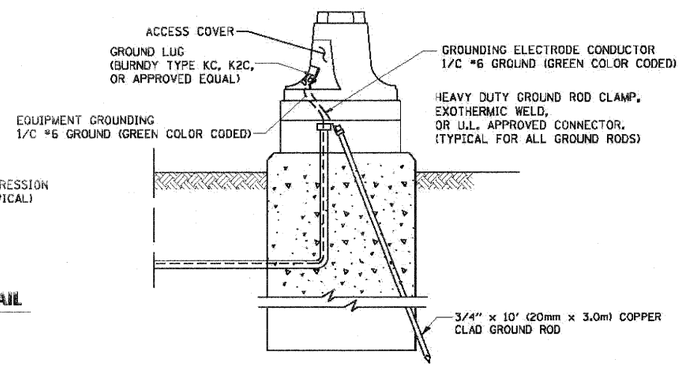
HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

1 Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - DAD	REVISED -
	PLOT DATE = $DATE$	DATE - 10/28/09	REVISED -

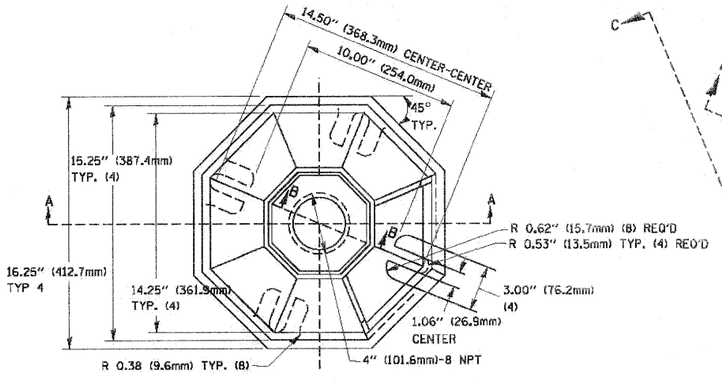
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

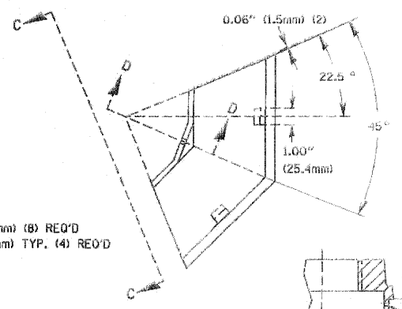
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

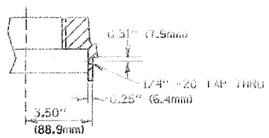
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	427
		CONTRACT NO. 60477		

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

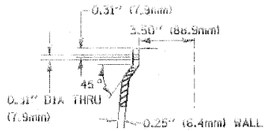


TOP VIEW

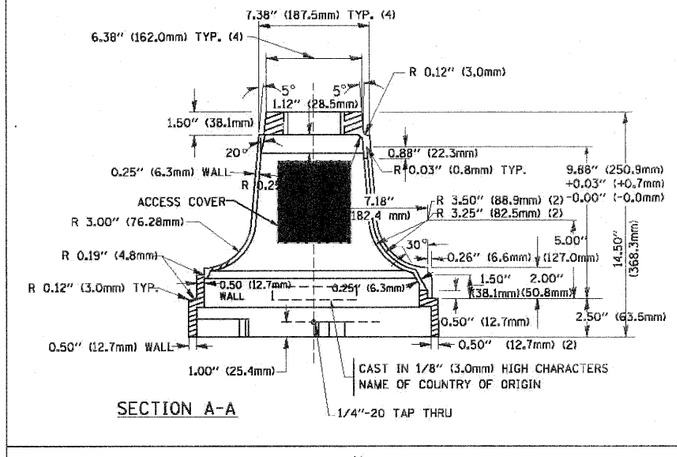




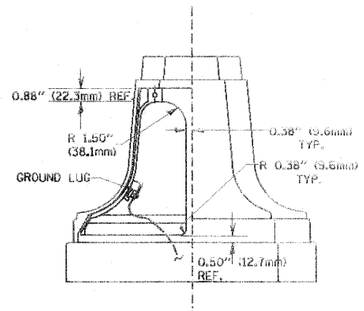
SECTION B-B



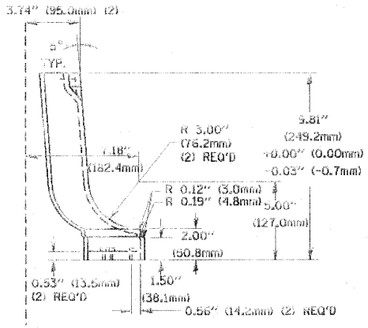
SECTION D-D



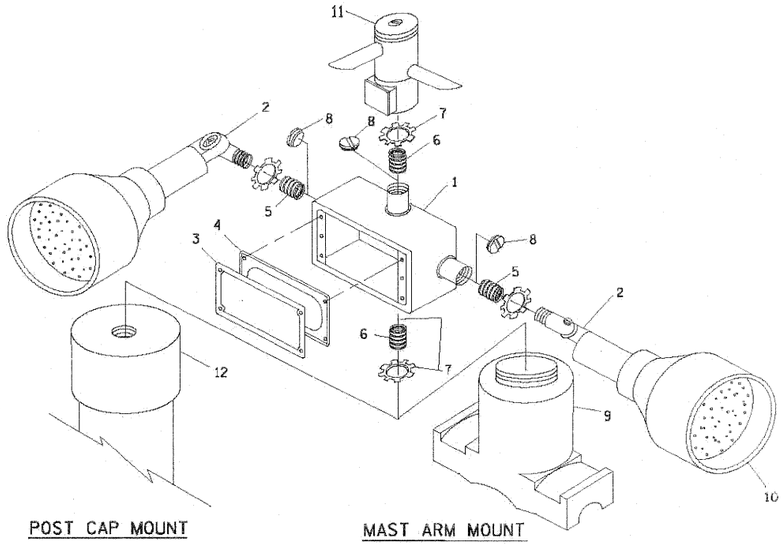
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



POST CAP MOUNT

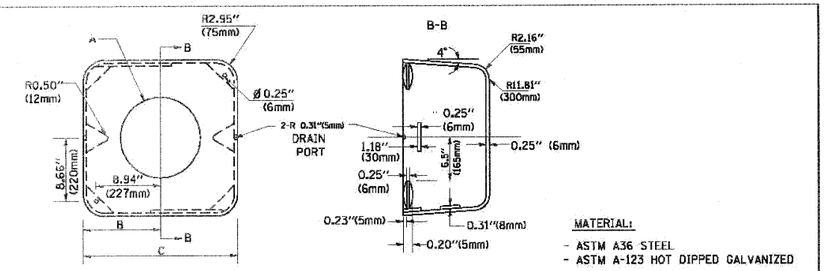
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

NOTES:

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



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

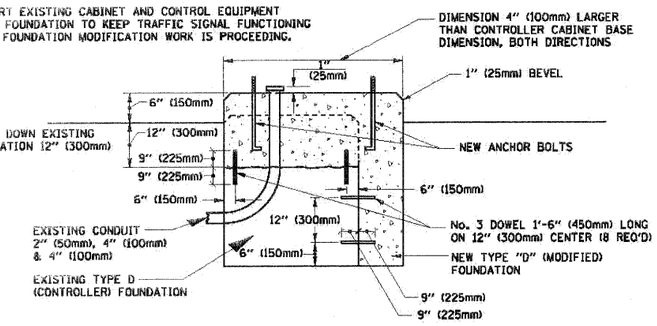
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

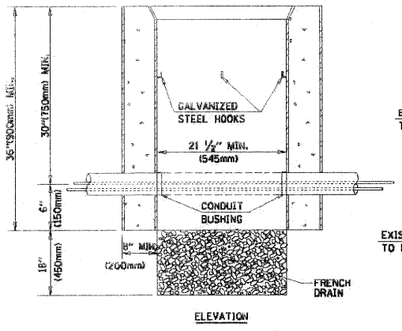
NOTES:

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

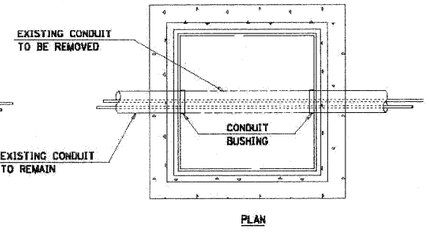
NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



ELEVATION



PLAN

NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

1 Rev. 6-8-11

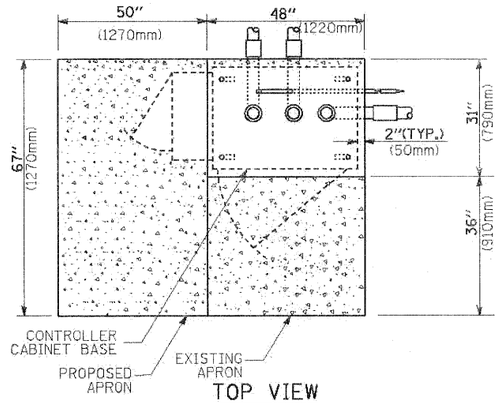
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - DAD	REVISED -
	PLOT DATE = $DATE$	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

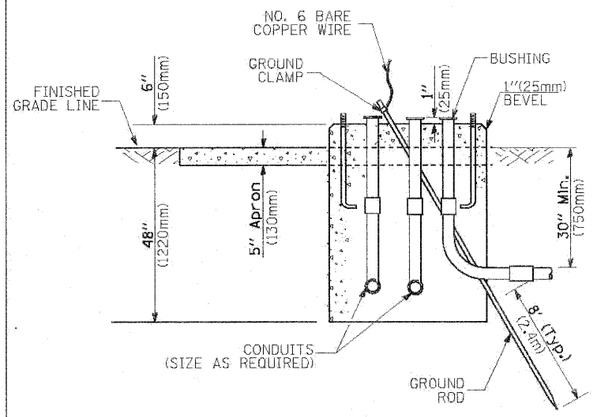
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

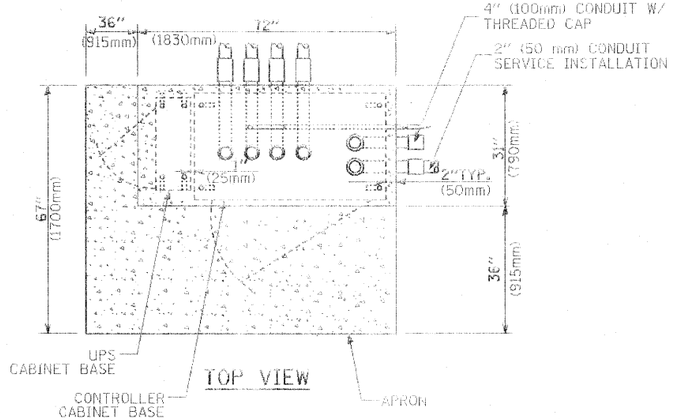
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	428
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



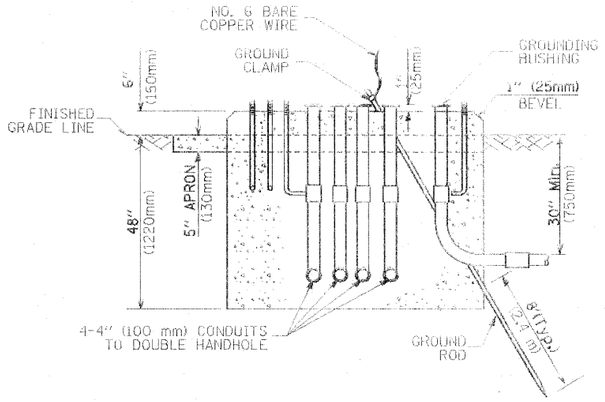
TOP VIEW



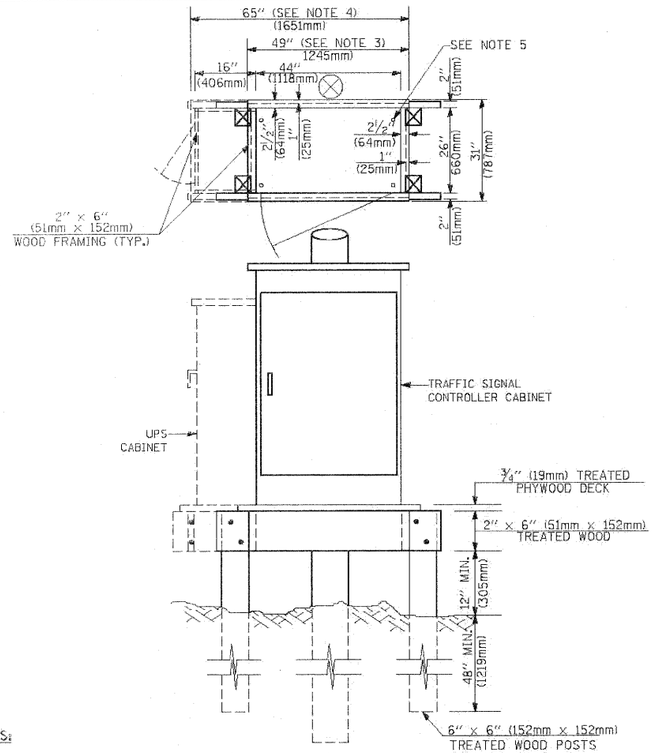
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TOP VIEW



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - DAD	REVISED -
	PLOT DATE = $DATE$	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	429
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		RXR	RXR
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OF (G) GOUND 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	H	H
HEAVY DUTY HANDHOLD	R	HD	HD
DOUBLE HANDHOLE	R	DH	DH
JUNCTION BOX	R	JB	JB
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
ABANDON ITEM	AB		
12" (300mm) TRAFFIC SIGNAL SECTION			R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE			
SIGNAL FACE			R Y G 4Y 4G
SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD			R Y G 4Y 4G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL			
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	C D
RADIO INTERCONNECT	R		
RADIO REPEATER			
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED	R (2)	(2)	RR
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		5	5
		1	1

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

RAILROAD SYMBOLS

RAILROAD CONTROL CABINET	R	R
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

Δ Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
		DRAWN - BCK	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - DAD	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = $DATE$	DATE - 10/28/09	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	430
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

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.

AFTER THE PROPOSED TRAFFIC SIGNAL IS INSTALLED AND IN OPERATION, THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGH-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACOR'S BID PRICE.

1	EACH	CONTOLLER AND CABINET COMPLETE
7	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED
4	EACH	WOOD POLE
423	FOOT	SPAN WIRE
423	FOOT	TETHER WIRE
1	LSUM	AERIAL ELECTRIC CABLES
3	EACH	VIDEO DETECTION CAMERAS
1	EACH	WIRELESS INTERCONNECT EQUIPMENT

THE FOLLOWING ITEMS SHALL BE RELOCATED TO THE NEW SPAN WIRE LOCATIONS AS SHOWN IN THE PLANS AFTER THE NEW WOOD POLE, SPAN WIRES, TETHER WIRES, AND ELECTRIC CABLES ARE INSTALLED.

2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED
1	EACH	LIGHT DETECTOR WITH CONFIRMATION BEACON

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

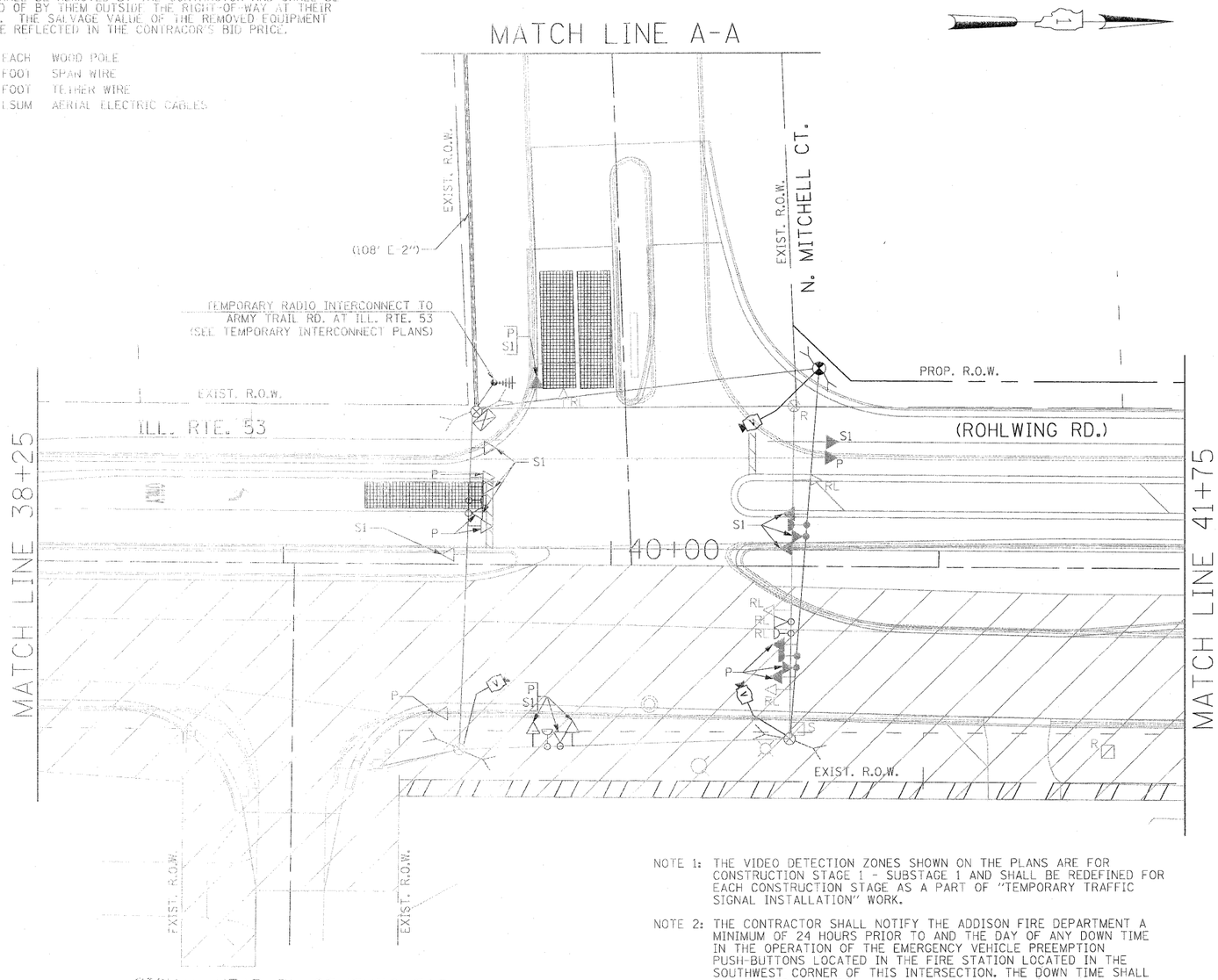
AGENCY: VILLAGE OF ADDISON

CONTACT INFORMATION:
RUDY ESPEDIDO
VILLAGE OF ADDISON
ENGINEERNG DEPARTMENT
PHONE: (630)693-7533

3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

FOR TEMPORARY TRAFFIC SIGNAL MODIFICATION, 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 CONTRACOR'S BID PRICE.

1	EACH	WOOD POLE
198	FOOT	SPAN WIRE
198	FOOT	TETHER WIRE
1	LSUM	AERIAL ELECTRIC CABLES



SIGNAL HEAD PLACEMENTS FOR STAGES: PRE-STAGE, AND S1

NOTE 1: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

NOTE 2: THE CONTRACTOR SHALL NOTIFY THE ADDISON FIRE DEPARTMENT A MINIMUM OF 24 HOURS PRIOR TO AND THE DAY OF ANY DOWN TIME IN THE OPERATION OF THE EMERGENCY VEHICLE PREEMPTION PUSH-BUTTONS LOCATED IN THE FIRE STATION LOCATED IN THE SOUTHWEST CORNER OF THIS INTERSECTION. THE DOWN TIME SHALL NOT EXCEED 2 HOURS.

AT MITCHELL CT:
P = PRE-STAGE
S1 = STAGE 1 (NO SUBSTAGES)
S2 = STAGE 1 (NO SUBSTAGES)
S3 = STAGE 1 (NO SUBSTAGES)

THE EXISTING TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL INSTALLATION IS IN OPERATION. THE MAINTENANCE OF THE EXISTING TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE INCLUDED IN THE PAY ITEM "MODIFY TEMPORARY TRAFFIC SIGNAL INSTALLATION".

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

Rev. 6-8-11

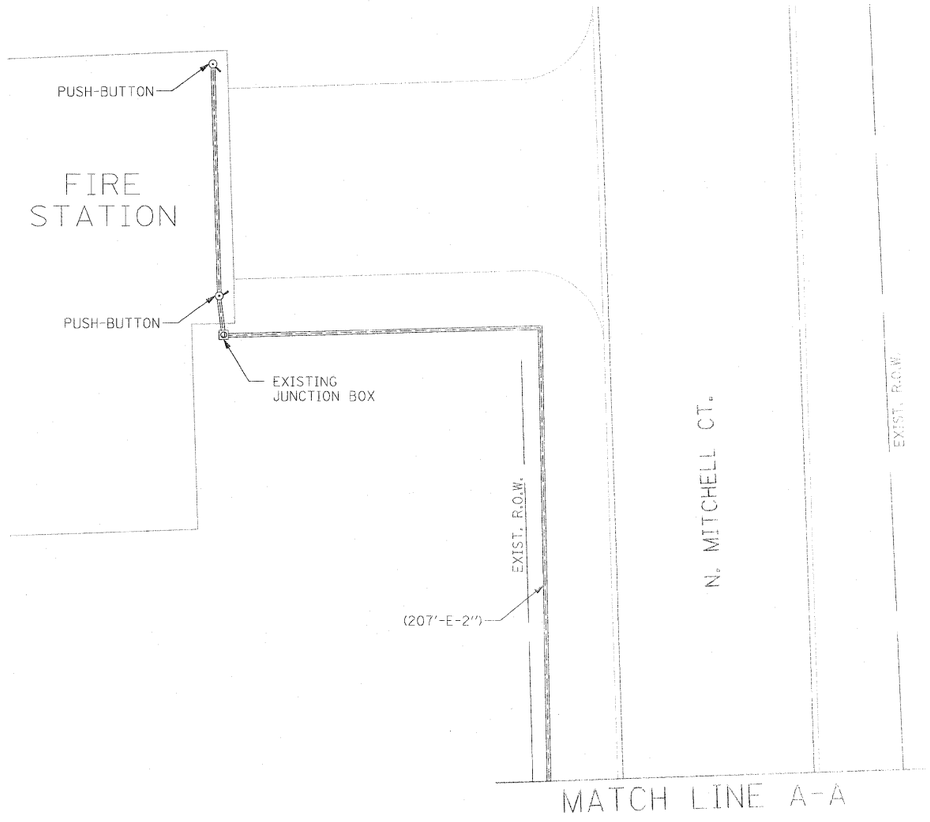
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

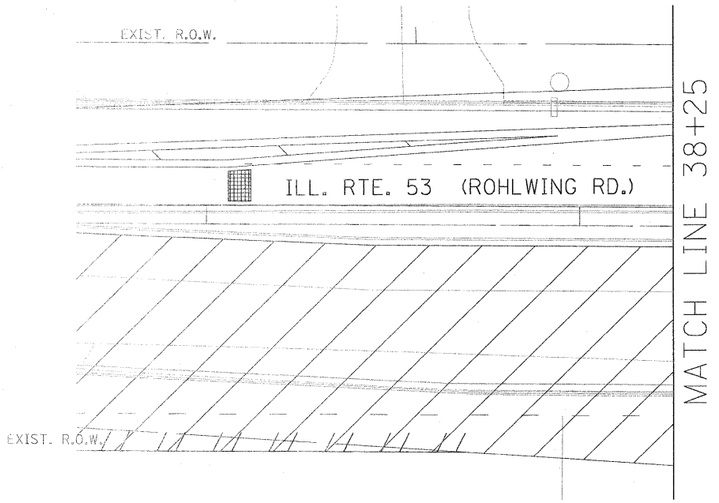
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

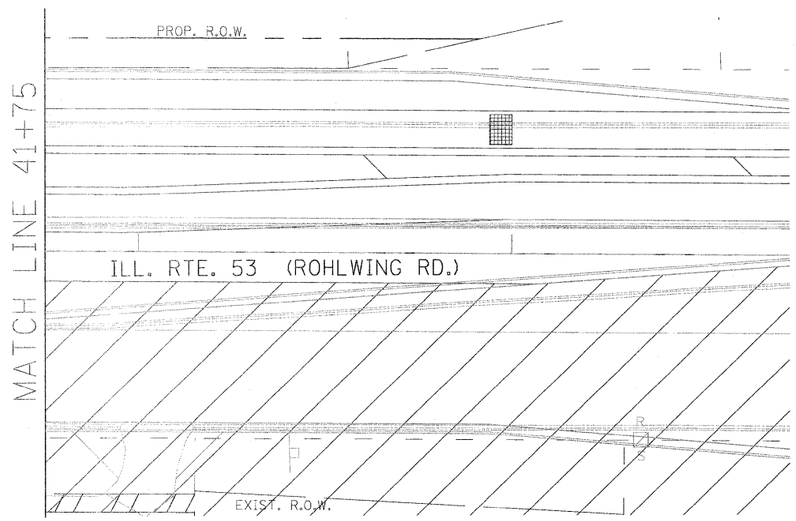
TEMPORARY TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT N. MITCHELL CT.
PRE STAGE AND STAGE 1 (SHEET 1 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	431
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		







NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

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

1 Rev. 6-8-11

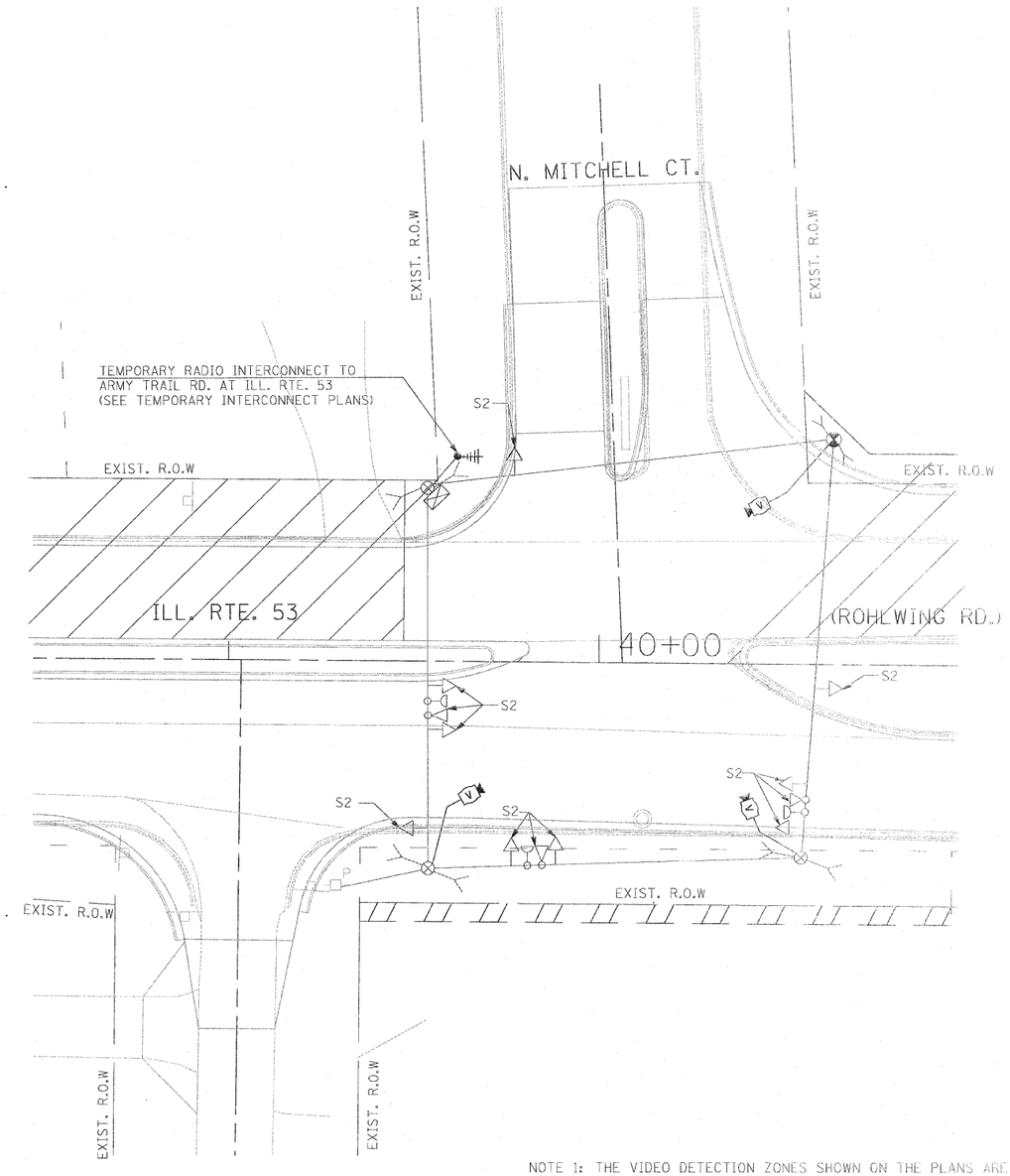
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

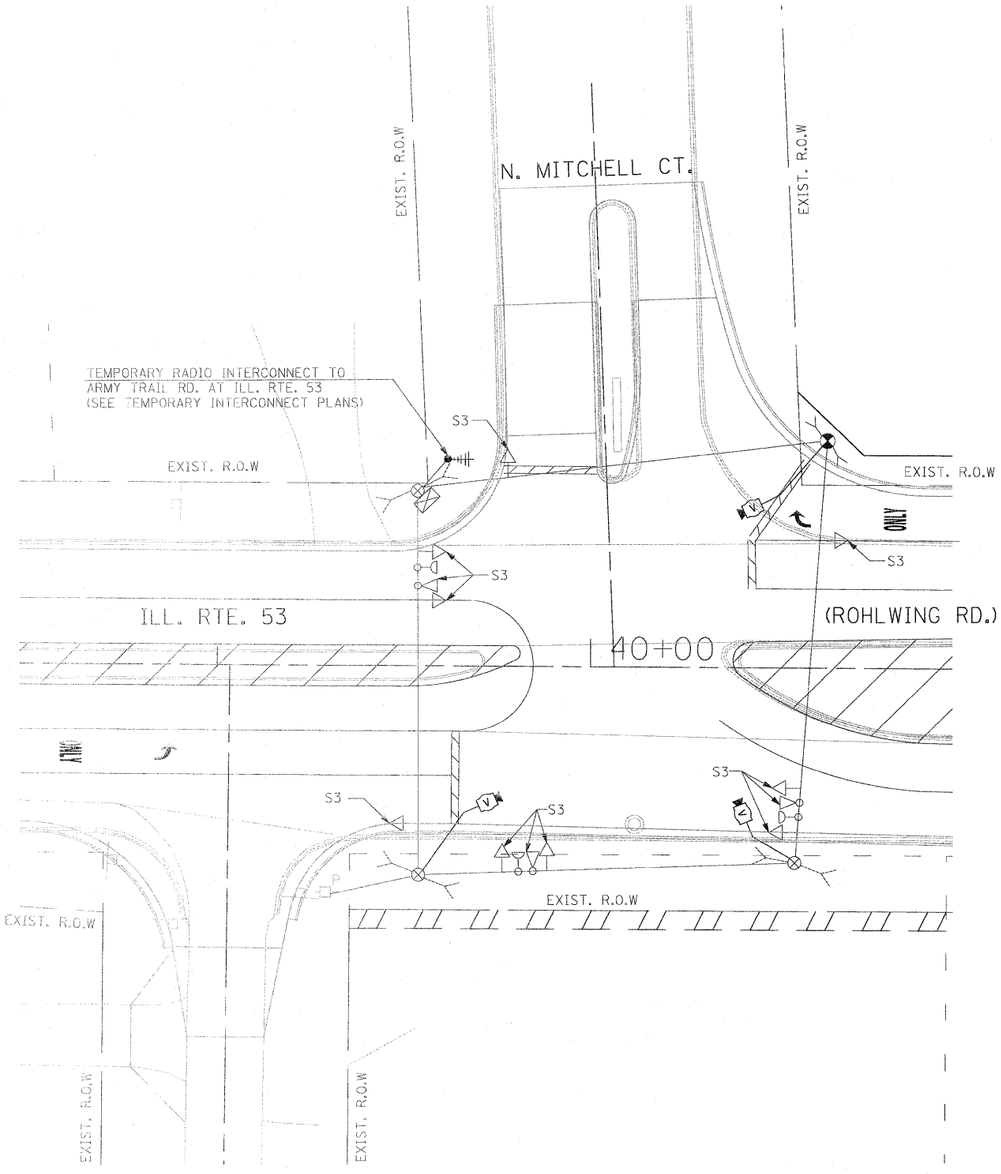
TEMPORARY TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT N. MITCHELL CT.
PRE STAGE AND STAGE 1 (SHEET 2 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	432
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



SIGNAL HEAD PLACEMENTS FOR
STAGES: S2.



SIGNAL HEAD PLACEMENTS FOR
STAGES: S3

NOTE 1: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

NOTE 2: THE SIGNAL HEAD PLACEMENT FOR N. MITCHELL COURT FOR CONSTRUCTION STAGES S2 AND S3 SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR DEPENDING ON THE CONSTRUCTION STAGING USED BY THE CONTRACTOR FOR N. MITCHELL COURT.

AT MITCHELL CT: P = PRE-STAGE
S1 = STAGE 1 (NO SUBSTAGES)
S2 = STAGE 1 (NO SUBSTAGES)
S3 = STAGE 1 (NO SUBSTAGES)

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

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

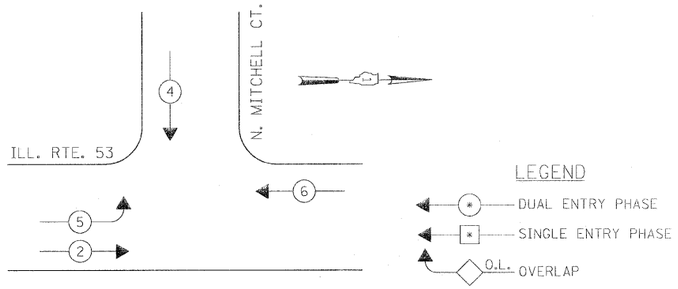
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT N. MITCHELL CT.
STAGE 2, AND STAGE 3 (SHEET 3 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	433
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



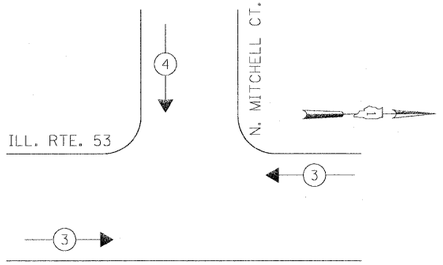
LEGEND

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

TEMPORARY PHASE DESIGNATION DIAGRAM

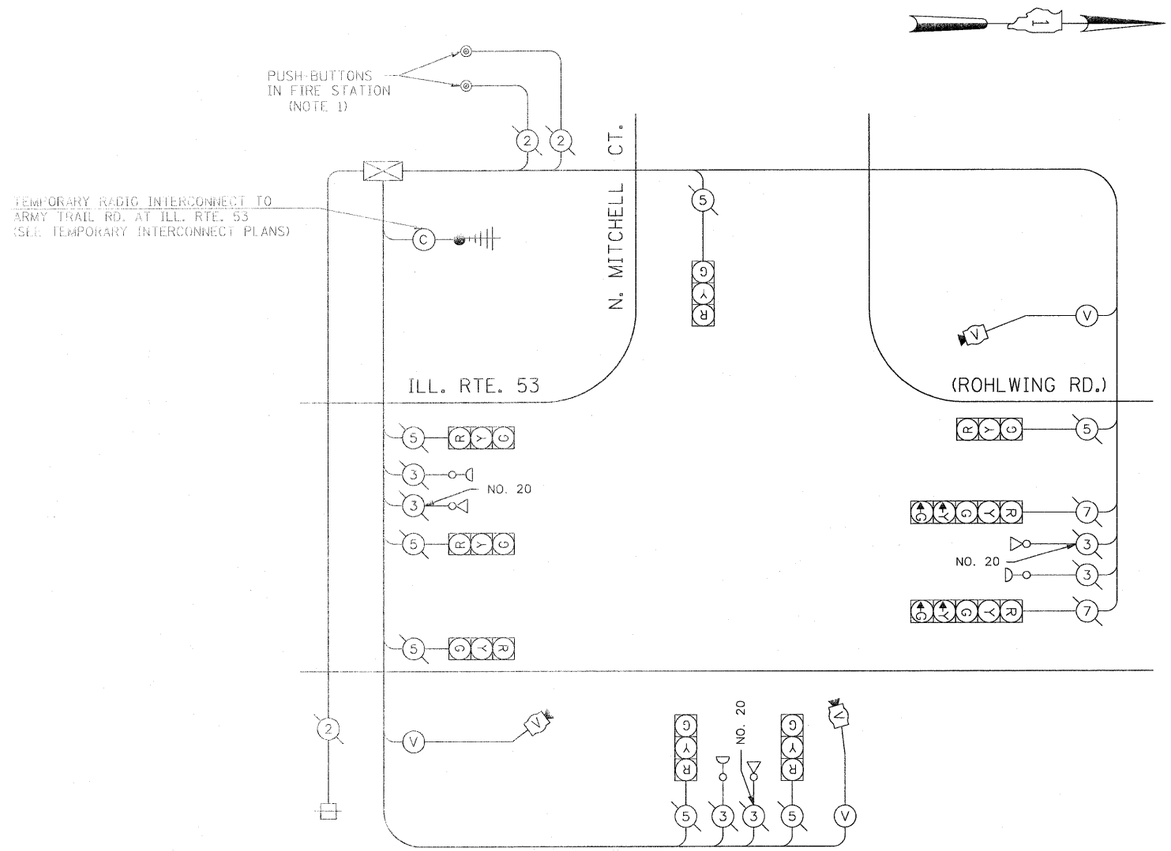
STAGES: PRE-STAGE,
S1, S2, S3, AND AFTER PROPOSED
ROADWAY GEOMETRICS ARE BUILT

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

STAGES: PRE-STAGE,
S1, S2, S3, AND AFTER PROPOSED
ROADWAY GEOMETRICS ARE BUILT



TEMPORARY CABLE PLAN

(NOT TO SCALE)

STAGES: PRE-STAGE,
S1, S2, S3, AND AFTER PROPOSED
ROADWAY GEOMETRICS ARE BUILT

NOTE 1: THE EMERGENCY VEHICLE PREEMPTION FOR THE WEST APPROACH SHALL ALSO BE ACTIVATED VIA PUSH-BUTTONS LOCATED INSIDE THE FIRE STATION PREMISES.

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

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	135	17	0.50	607.5
(YELLOW)	9	135	25	0.25	303.75
(GREEN)	9	135	15	0.25	303.75
ARROW	4	135	12	0.10	54
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	1519

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

Δ Rev. 6-8-11

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ILLINOIS ROUTE 53 (ROHLWING RD.) AT N. MITCHELL CT.
PRE-STAGE, STAGE 1, STAGE 2, AND STAGE 3 (SHEET 4 OF 4).

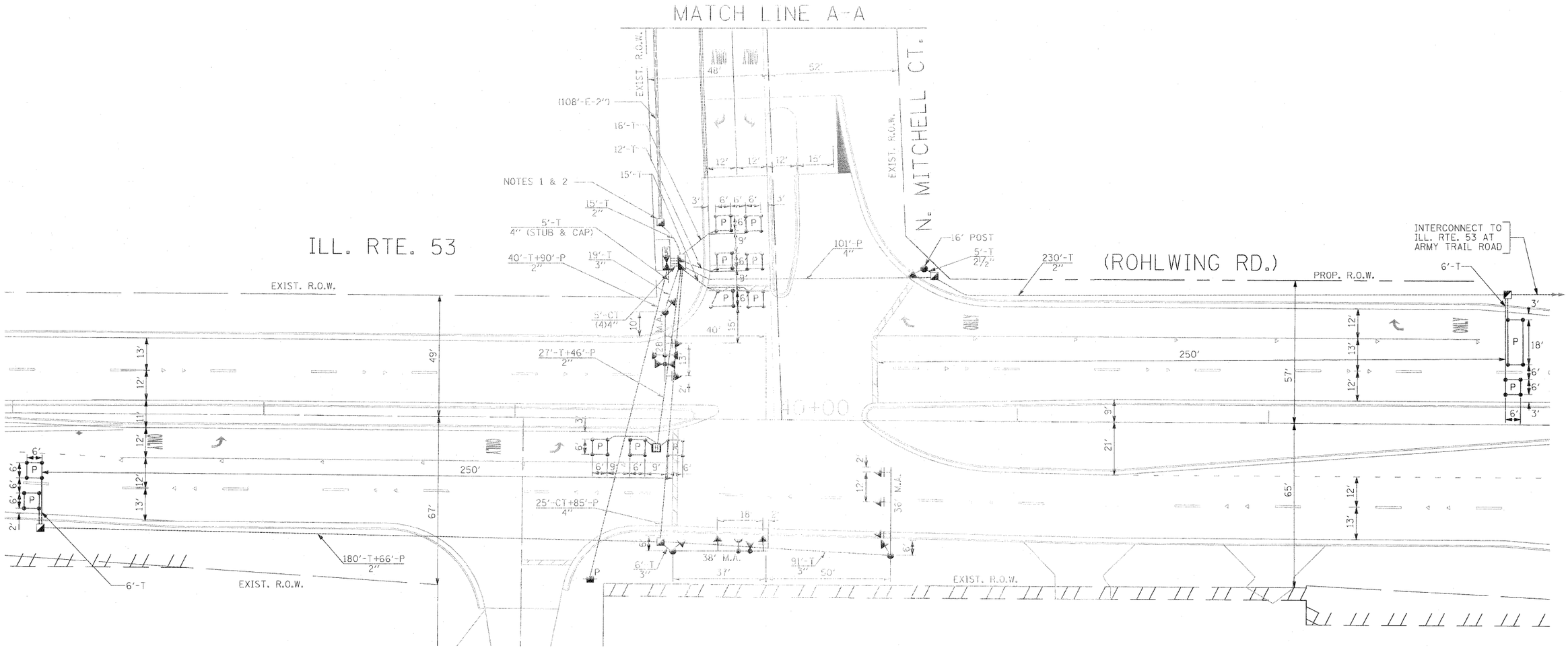
SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	434
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. ATD PROJECT		

NOTE 1: THE PROPOSED HANDHOLE SHALL BE CONSTRUCTED TO INTERCEPT THE EXISTING CONDUIT AS SHOWN IN THE PLAN AND AS DIRECTED BY THE ENGINEER.

NOTE 2: REMOVE TWO EXISTING 2C CABLES FROM EXISTING TEMPORARY CONTROLLER TO THE WEST OF THE PROPOSED HANDHOLE AND REINSTALL IN THE PROPOSED CONDUITS, DOUBLE HANDHOLE, AND TO THE PROPOSED CONTROLLER CABINET (35'±).

NOTE 3: THE CONTRACTOR SHALL NOTIFY THE ADDISON FIRE DEPARTMENT A MINIMUM OF 24 HOURS PRIOR TO AND THE DAY OF ANY DOWN TIME IN THE OPERATION OF THE EMERGENCY VEHICLE PREEMPTION PUSH-BUTTONS LOCATED IN THE FIRE STATION LOCATED IN THE SOUTHWEST CORNER OF THIS INTERSECTION. THE DOWN TIME SHALL NOT EXCEED 2 HOURS.



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

Δ Rev. 6-8-11

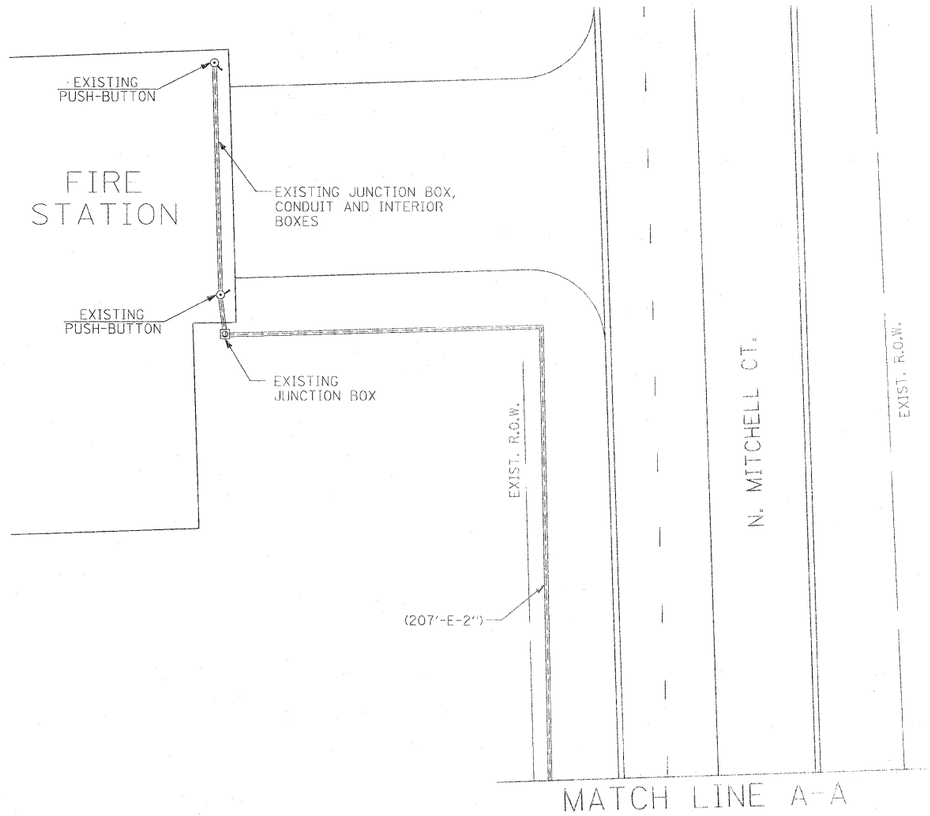
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT N. MITCHELL CT.
(SHEET 1 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	435
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



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

1 Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT N. MITCHELL CT.
(SHEET 2 OF 2)

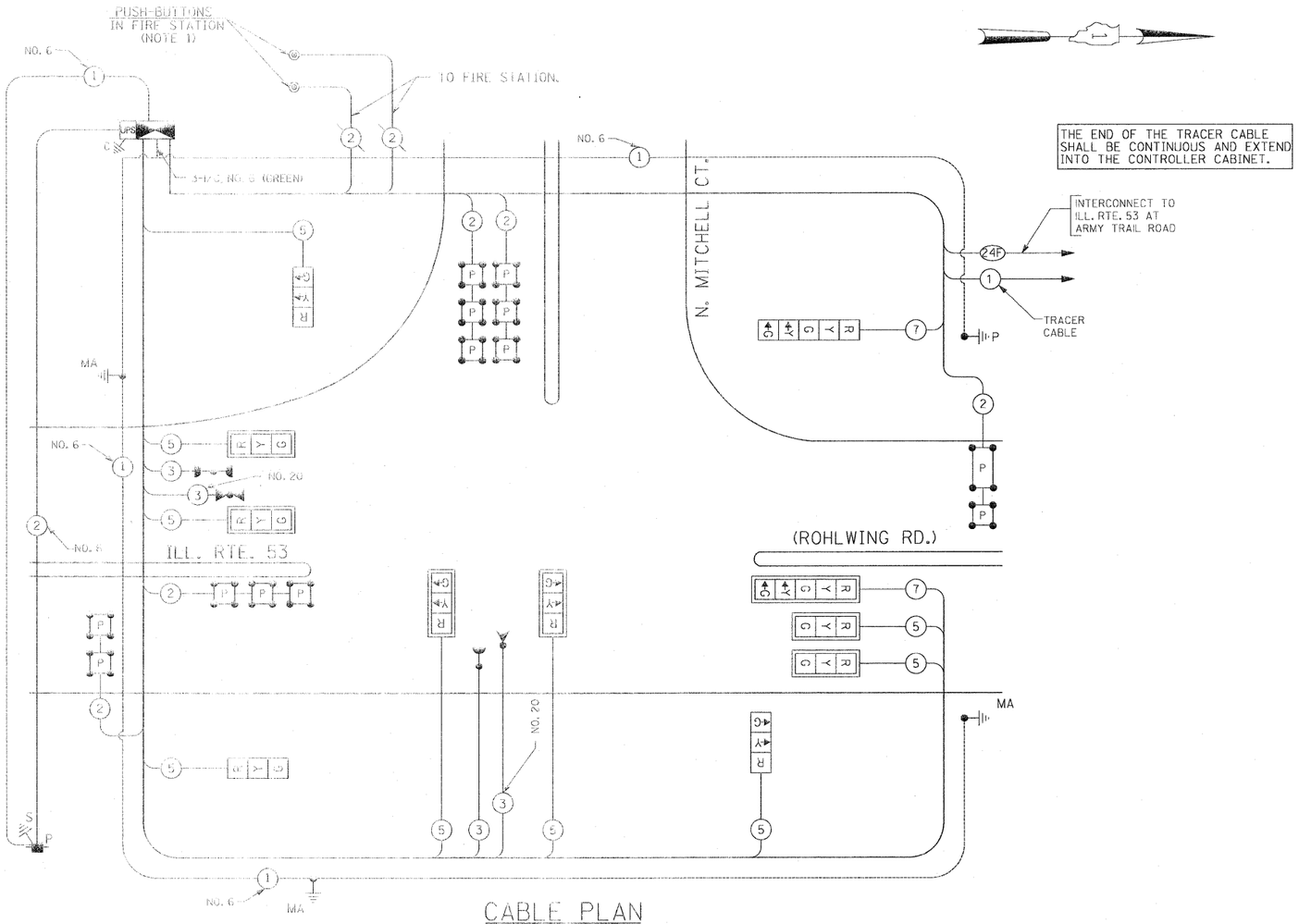
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	436
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
25.5	SQ FT	SIGN PANEL - TYPE 1
492	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
5	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
116	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
50	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
202	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
186	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
1	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
663	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
* 280	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1561	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
440	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
905	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
150	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
22	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
7	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
5	EACH	INDUCTIVE LOOP DETECTOR
* 2	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
35	FOOT	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT
2	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATION
472	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
586	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 280	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
1	EACH	MODIFY TEMPORARY TRAFFIC SIGNAL INSTALLATION

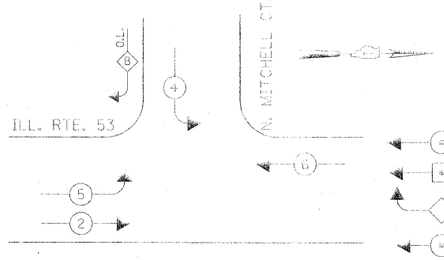
* 100% COST TO VILLAGE OF ADDISON



CABLE PLAN

(NOT TO SCALE)

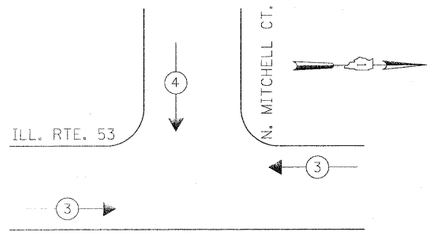
CONTROLLER SEQUENCE



LEGEND

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

NOTE: THE EMERGENCY VEHICLE PREEMPTION FOR THE WEST APPROACH SHALL ALSO BE ACTIVATED VIA PUSH-BUTTONS LOCATED INSIDE THE FIRE STATION PREMISES.

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	11	135	17	0.50	93.5
(YELLOW)	11	135	25	0.25	68.75
(GREEN)	11	135	15	0.25	41.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	308.3

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

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

Rev 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
EMERGENCY VEHICLE PREEMPTION SEQUENCE
SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT N. MITCHELL CT.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	437
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
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.

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

AGENCY: VILLAGE OF ADDISON

CONTACT INFORMATION:
RUDY ESPEDIDO
VILLAGE OF ADDISON
ENGINEERNG DEPARTMENT
PHONE: (630)693 7533

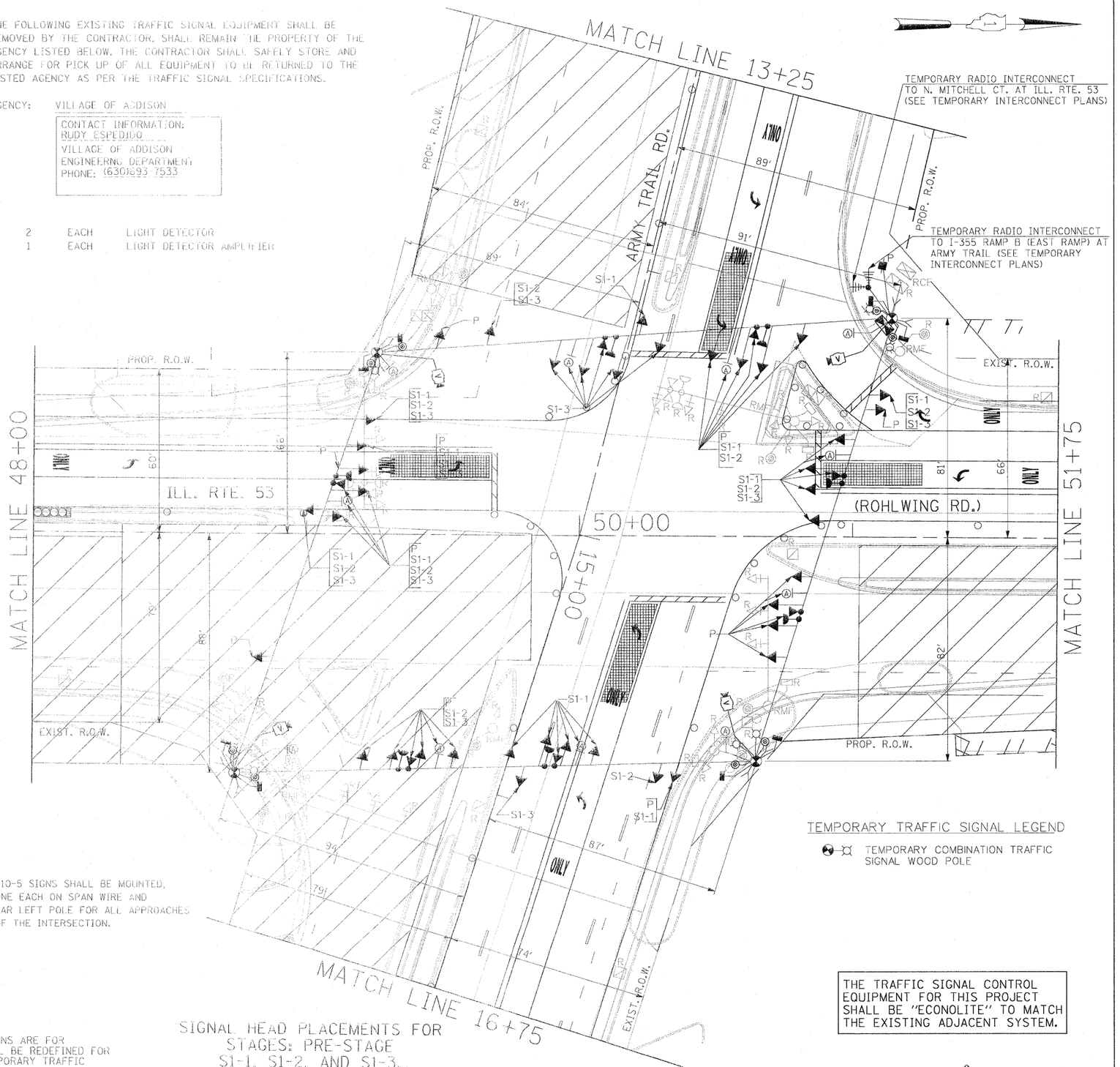
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

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

1	EACH	CONTROLLER AND CABINET COMPLETE
11	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
7	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, 3-FACE, BRACKET MOUNTED
12	EACH	TRAFFIC SIGNAL BACKPLATE
5	EACH	TRAFFIC SIGNAL POST
4	EACH	STEEL MAST ARM ASSEMBLY AND POLE
9	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION

Ⓐ
LEFT ON GREEN ARROW ONLY
R10-5, 24" X 30" (8 REQUIRED)

R10-5 SIGNS SHALL BE MOUNTED, ONE EACH ON SPAN WIRE AND FAR LEFT POLE FOR ALL APPROACHES OF THE INTERSECTION.



SIGNAL HEAD PLACEMENTS FOR STAGES: PRE-STAGE S1-1, S1-2, AND S1-3.

TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY COMBINATION TRAFFIC SIGNAL WOOD POLE

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

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

⚠ Rev. 6-8-11

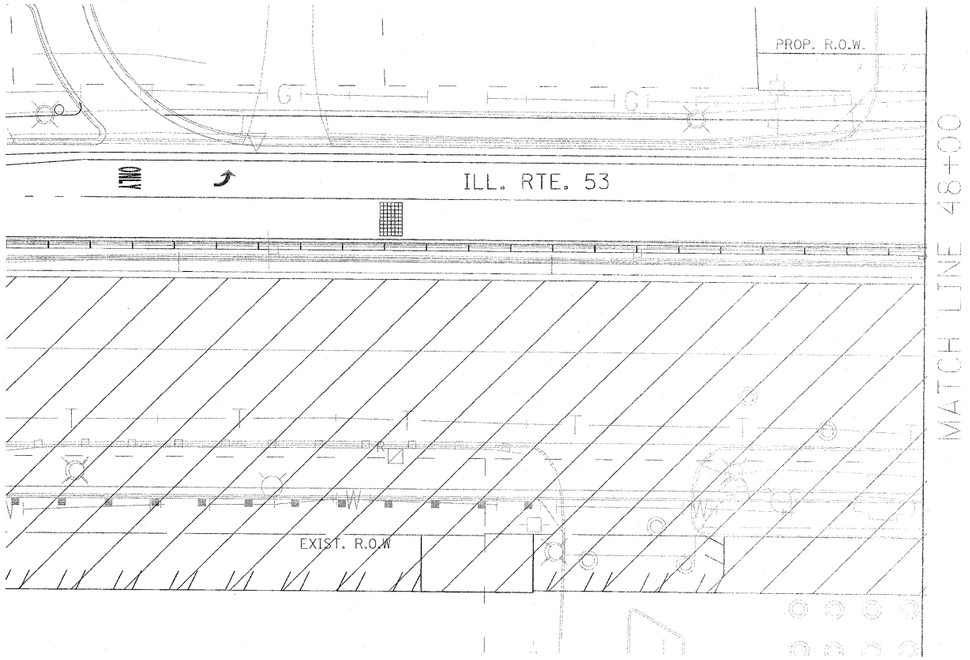
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

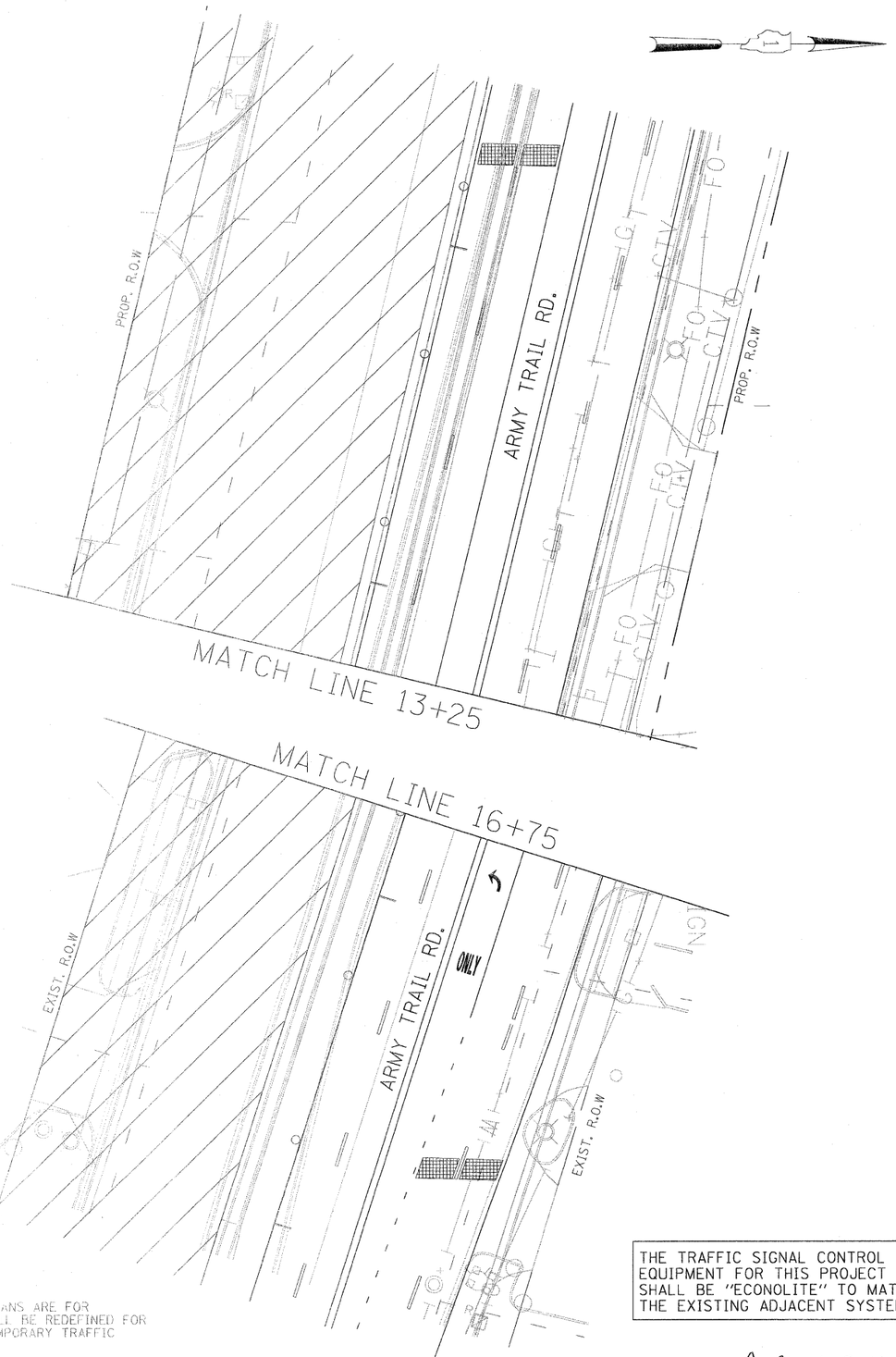
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

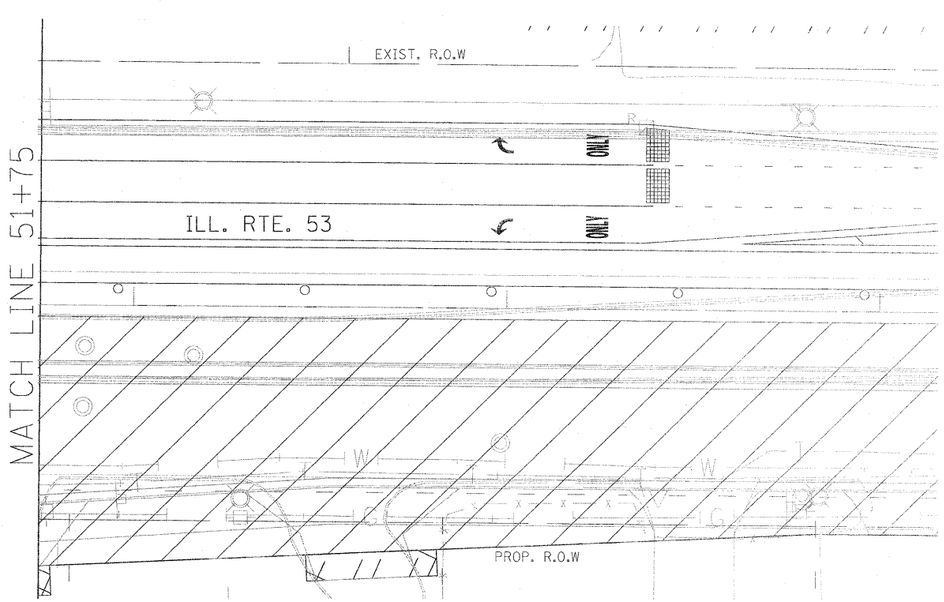
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARMY TRAIL RD. PRE STAGE AND STAGE 1 (SHEET 1 OF 5).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	438
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		







NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

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

1 Rev. 6-8-11

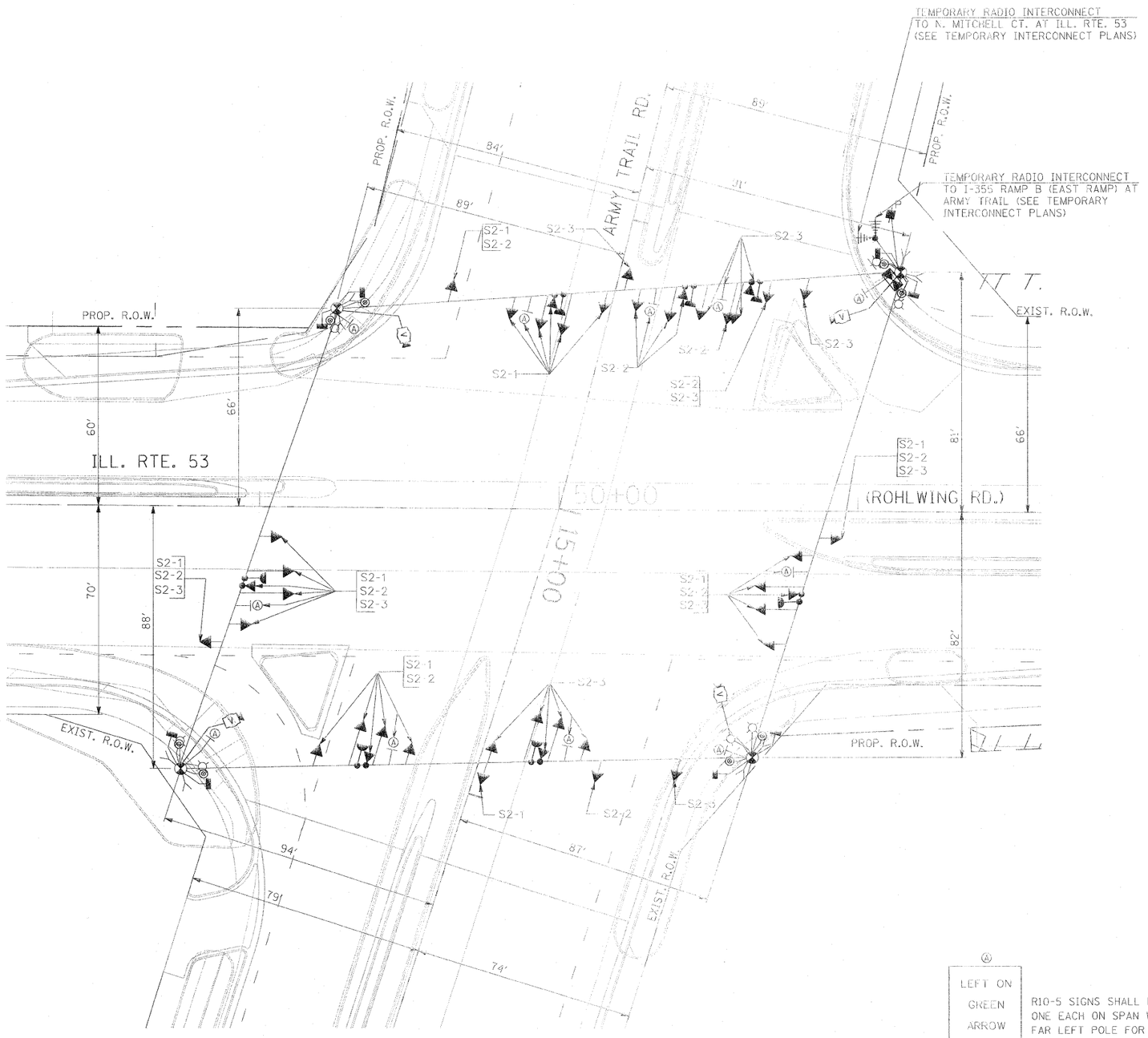
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARMY TRAIL RD. PRE STAGE AND STAGE 1 (SHEET 2 OF 5)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	439
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



SIGNAL HEAD PLACEMENTS FOR
STAGES: S2-1, S2-2, AND S2-3.

TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY COMBINATION TRAFFIC SIGNAL WOOD POLE

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

Ⓐ
LEFT ON GREEN ARROW ONLY

R10-5,
24" X 30"
(8 REQUIRED)

R10-5 SIGNS SHALL BE MOUNTED, ONE EACH ON SPAN WIRE AND FAR LEFT POLE FOR ALL APPROACHES OF THE INTERSECTION.

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

⚠ Rev. 6-8-11

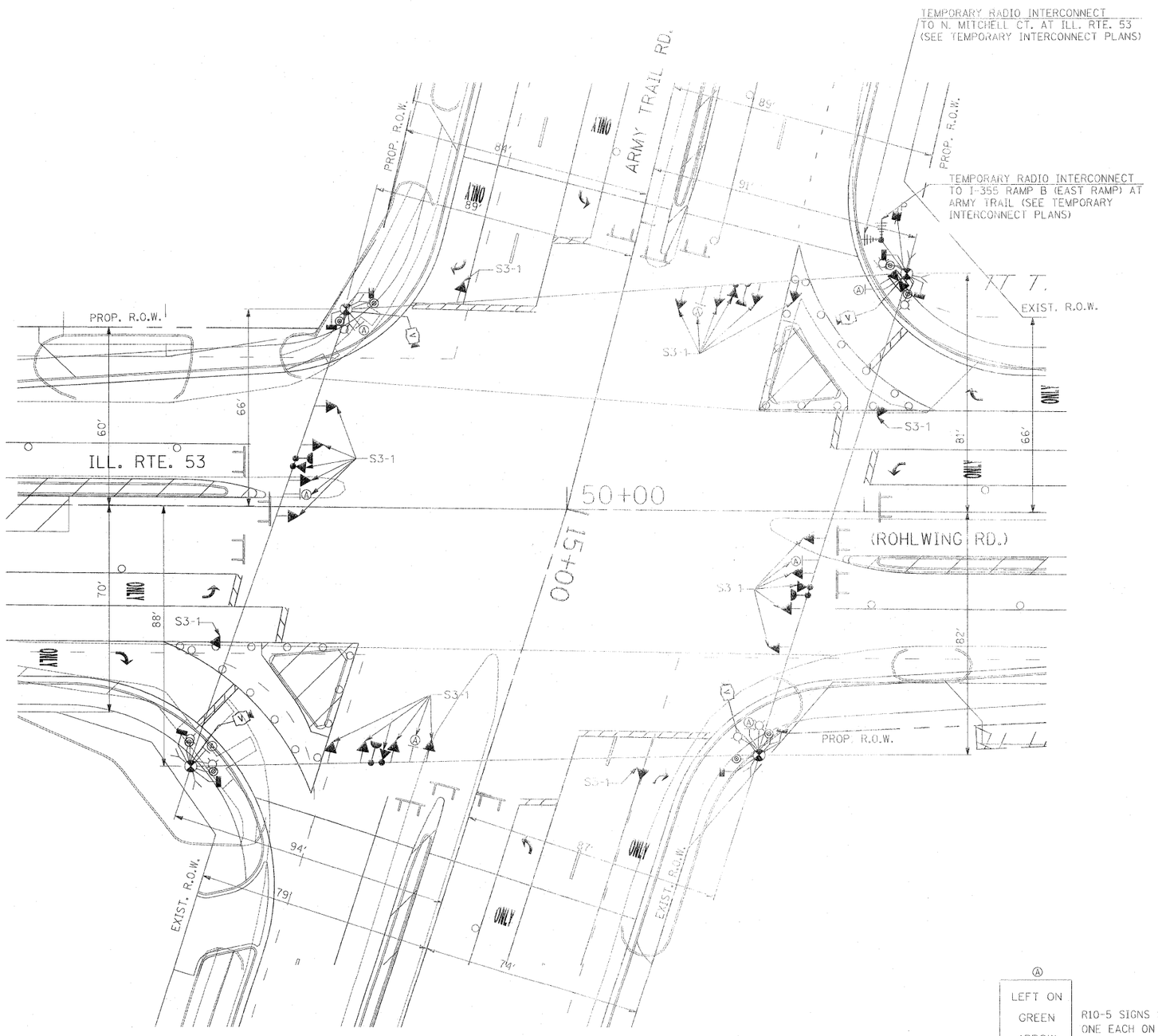
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARMY TRAIL RD. STAGE 2
(SHEET 3 OF 5)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	440
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



SIGNAL HEAD PLACEMENTS FOR
STAGES: S3

TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY COMBINATION TRAFFIC SIGNAL WOOD POLE

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

Ⓐ
LEFT ON GREEN ARROW ONLY

R10-5,
24" X 30"
(8 REQUIRED)

R10-5 SIGNS SHALL BE MOUNTED, ONE EACH ON SPAN WIRE AND FAR LEFT POLE FOR THE APPROACH WHERE THE R10-5 IS NEEDED.

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

1 Rev. 6-8-11

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

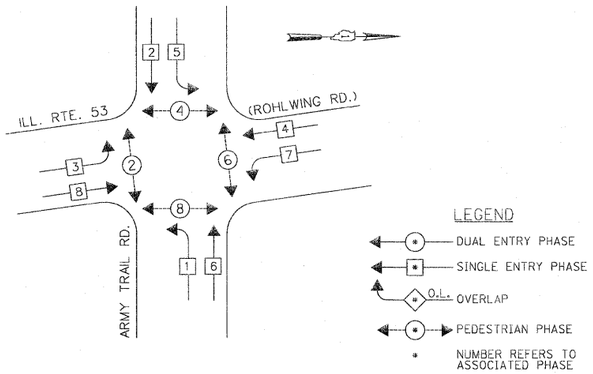
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARMY TRAIL RD. STAGE 3
(SHEET 4 OF 5)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	441
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

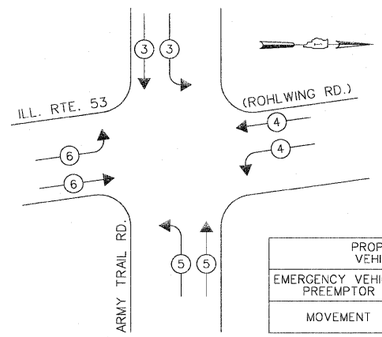
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: PRE-STAGE, S1-1 AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

EMERGENCY VEHICLE PREEMPTION SEQUENCE



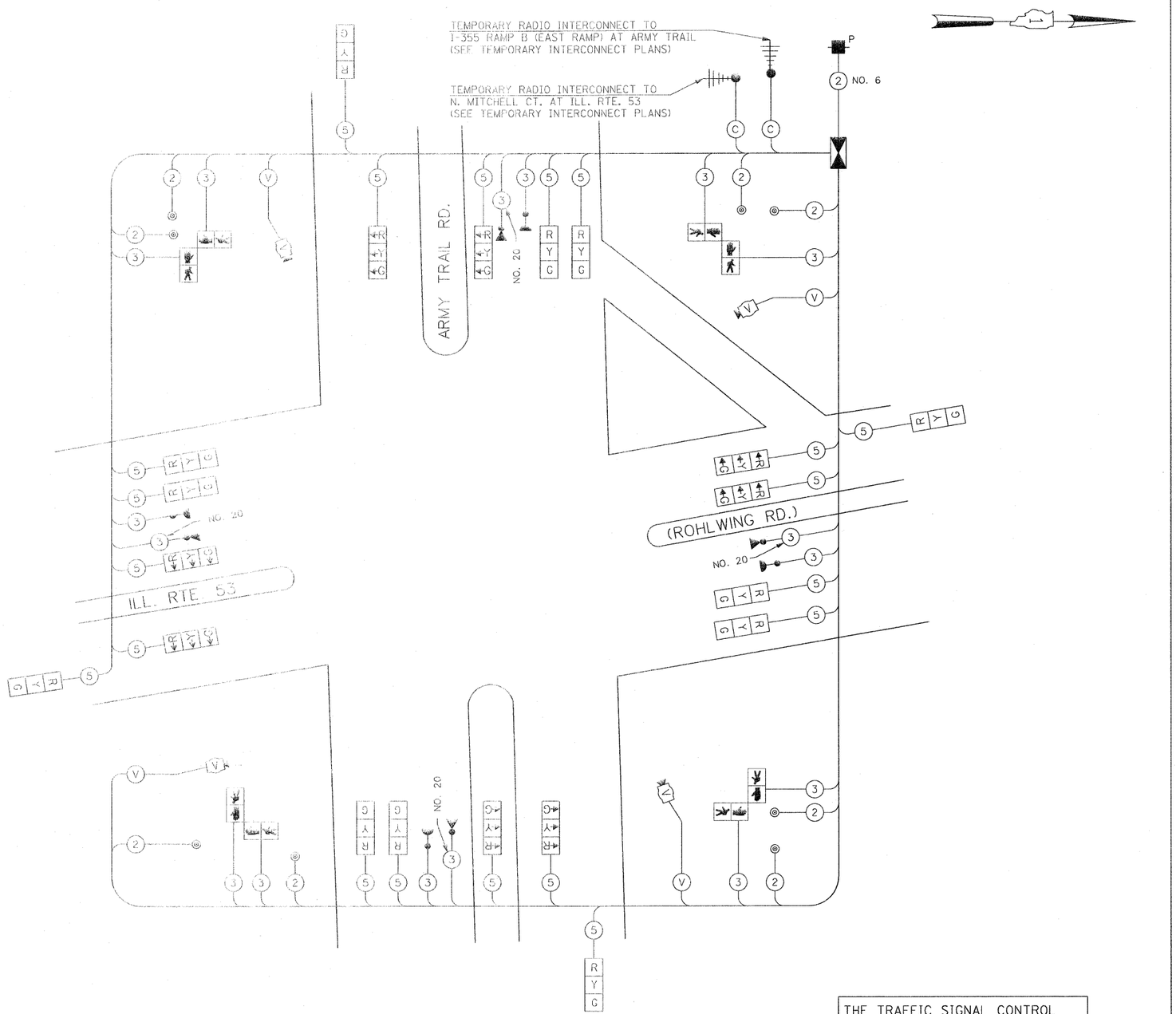
PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

STAGES: PRE-STAGE, S1-1 AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW		135	12	0.10	
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	820

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON



TEMPORARY CABLE PLAN

(NOT TO SCALE)

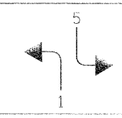
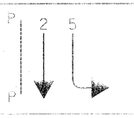
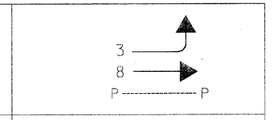
STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

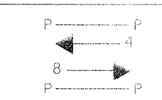
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARMY TRAIL RD. PRE-STAGE, STAGE 1, STAGE 2, AND STAGE 3 AS NOTED (SHEET 5 OF 5)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						2578	532B	DuPage	781	442
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -					CONTRACT NO. 60477		
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TEMPORARY SEQUENCE OF OPERATION (FOR STAGE 1, SUB STAGES 2,3, STAGE 2, SUB STAGES 1,2,3, AND STAGE 3) WITH LEAD-LAG OPERATION FOR ILL. RTE. 53 ONLY)

MOVEMENT																																						
PHASE		1+5						1+6								2+5								2+6								3+8					
INTERVAL		1	2A	2B	3A	3B	4A	4B	5	6	7A	7B	8A	8B	9A	9B	10	11	12A	12B	13A	13B	14A	14B	15	16	17A	17B	18A	18B	19A	19B	20	21	22A	22B	23A	23B
CHANGE TO			1+6		2+5		2+6 3+8 4+7 4+8		ø	ø	1+5		2+5 3+8 4+7 4+8		2+6		ø	ø	1+5		1+6 3+8 4+7 4+8		2+6				1+6		2+5		1+5 3+8 4+7 4+8		ø	ø	1+5 1+6 2+5 2+6 4+7		4+8	
ARMY TRAIL ROAD NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	C	C	Y	R	Y	R	G	C	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R
ARMY TRAIL ROAD TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	E/B	◂G	◂Y	◂R	◂G	◂C	◂Y	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂G	◂G	◂C	◂G	◂Y	◂R	◂Y	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R
ARMY TRAIL ROAD NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	W/B	R	R	R	R	R	R	R	G	G	Y	R	Y	R	C	C	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	Y	R	R	R	R	R	R	R
ARMY TRAIL ROAD TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	W/B	◂G	◂G	◂G	◂Y	◂R	◂Y	◂R	◂G	◂G	◂G	◂G	◂Y	◂R	◂Y	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	N/B	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂G	◂G	◂Y	◂R	◂Y	◂R
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	S/B	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON NORTH SIDE OF ARMY TRAIL ROAD		H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON SOUTH SIDE OF ARMY TRAIL ROAD		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS - CROSSING ARMY TRAIL ROAD ON EAST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H
PEDESTRIAN SIGNALS - CROSSING ARMY TRAIL ROAD ON WEST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

MOVEMENT																		FLASH
PHASE		4+8								4+7								
INTERVAL		24	25	26A	26B	27A	27B	28A	28B	29	30	31A	31B	32A	32B			
CHANGE TO				4+7		3+8		1+5 1+6 2+5 2+6				1+5 1+6 2+5 2+6 3+8		4+8				
ARMY TRAIL ROAD NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ARMY TRAIL ROAD TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	E/B	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	
ARMY TRAIL ROAD NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ARMY TRAIL ROAD TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	W/B	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	N/B	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	N/B	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	S/B	G	G	G	G	Y	R	Y	R	G	G	Y	R	G	G	R		
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	S/B	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂G	◂G	◂Y	◂R	◂Y	◂R	◂R		
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON NORTH SIDE OF ARMY TRAIL ROAD		H	H	H	H	H	H	H	H	H	H	H	H	H	H			DARK
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON SOUTH SIDE OF ARMY TRAIL ROAD		H	H	H	H	H	H	H	H	H	H	H	H	H	H			DARK
PEDESTRIAN SIGNALS - CROSSING ARMY TRAIL ROAD ON EAST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H			DARK
PEDESTRIAN SIGNALS - CROSSING ARMY TRAIL ROAD ON WEST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		*P	**FH	H	H	H	H	H	H	*P	**FH	H	H	H	H			DARK

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

PHASE 2 + 6 SHALL BE PLACED ON RECALL.

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.

** FLASHING " 🚶 " IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

ø THIS " 🚶 " OR FLASHING " 🚶 " INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE " 🚶 " OR FLASHING " 🚶 " INTERVALS. " 🚶 " AND FLASHING " 🚶 " TIMINGS TO BE SET ONLY ON THE PHASES WHERE " 🚶 " AND FLASHING " 🚶 " ARE INDICATED IN THE SEQUENCE OF OPERATION.

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

⚠ Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SEQUENCE OF OPERATION
ILL. RTE. 53 (ROHLWING RD.) AT ARMY TRAIL RD.
STAGE 1 - SUB STAGES 2,3, STAGE 2 – SUB STAGES 1, 2, 3, AND STAGE 3

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	443
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
(FOR STAGE 1, SUB STAGES 2,3, STAGE 2, SUB STAGES 1,2,3 AND STAGE 3) WITH LEAD-LAG OPERATION FOR ILL. RTE. 53 ONLY)

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		1		1		5			5		10		10		15		15		15		20			20	24			24			24		
EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	1MM
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	3,5	1F	4	1H	1J	2,3,5	4	1M	1N	3,4,5	2	1R	1S	2	1U	1V	3,5	1X	1Y	4	1AA	1BB	2,3,4	5	1EE	1FF	2,4	1HH	1JJ	3	1LL	1MM	5
ARMY TRAIL ROAD NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R
ARMY TRAIL ROAD TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	E/B	◄G	◄G	◄Y	◄R	◄Y	◄R	◄R	◄R	◄R	◄R	◄G	◄Y	◄R	◄G	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ARMY TRAIL ROAD NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	W/B	R	R	R	R	R	R	G	Y	R	G	R	R	R	R	G	Y	R	G	Y	R	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
ARMY TRAIL ROAD TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	W/B	◄Y	◄R	◄Y	◄R	◄G	◄G	◄G	◄Y	◄R	◄G	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	Y	R	G	Y	R	G	G	G
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	N/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄Y	◄R	◄G	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	S/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON NORTH SIDE OF ARMY TRAIL ROAD		H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	FH	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON SOUTH SIDE OF ARMY TRAIL ROAD		H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	FH	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS - CROSSING ARMY TRAIL ROAD ON EAST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	FH	H	H	FH	H	H	FH	H	H
PEDESTRIAN SIGNALS - CROSSING ARMY TRAIL ROAD ON WEST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	FH	H	H

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		29			29	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1NN	1PP	1QQ	1RR	2	3	4	5	
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1PP	1QQ	2,4,5	3					
ARMY TRAIL ROAD NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	G	R	R	R	◊
ARMY TRAIL ROAD TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	E/B	◄R	◄R	◄R	◄R	◄G	◄R	◄R	◄R	◊
ARMY TRAIL ROAD NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	W/B	R	R	R	R	R	R	G	R	◊
ARMY TRAIL ROAD TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	W/B	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄R	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	N/B	R	R	R	R	R	R	R	G	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	N/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	S/B	G	Y	R	G	R	G	R	R	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	S/B	◄G	◄Y	◄R	◄G	◄R	◄G	◄R	◄R	◊
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON NORTH SIDE OF ARMY TRAIL ROAD		H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON SOUTH SIDE OF ARMY TRAIL ROAD		H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS - CROSSING ARMY TRAIL ROAD ON EAST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS - CROSSING ARMY TRAIL ROAD ON WEST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		FH	H	H	FH	H	H	H	H	◊

◊ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4, OR 5 IS TERMINATED.

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

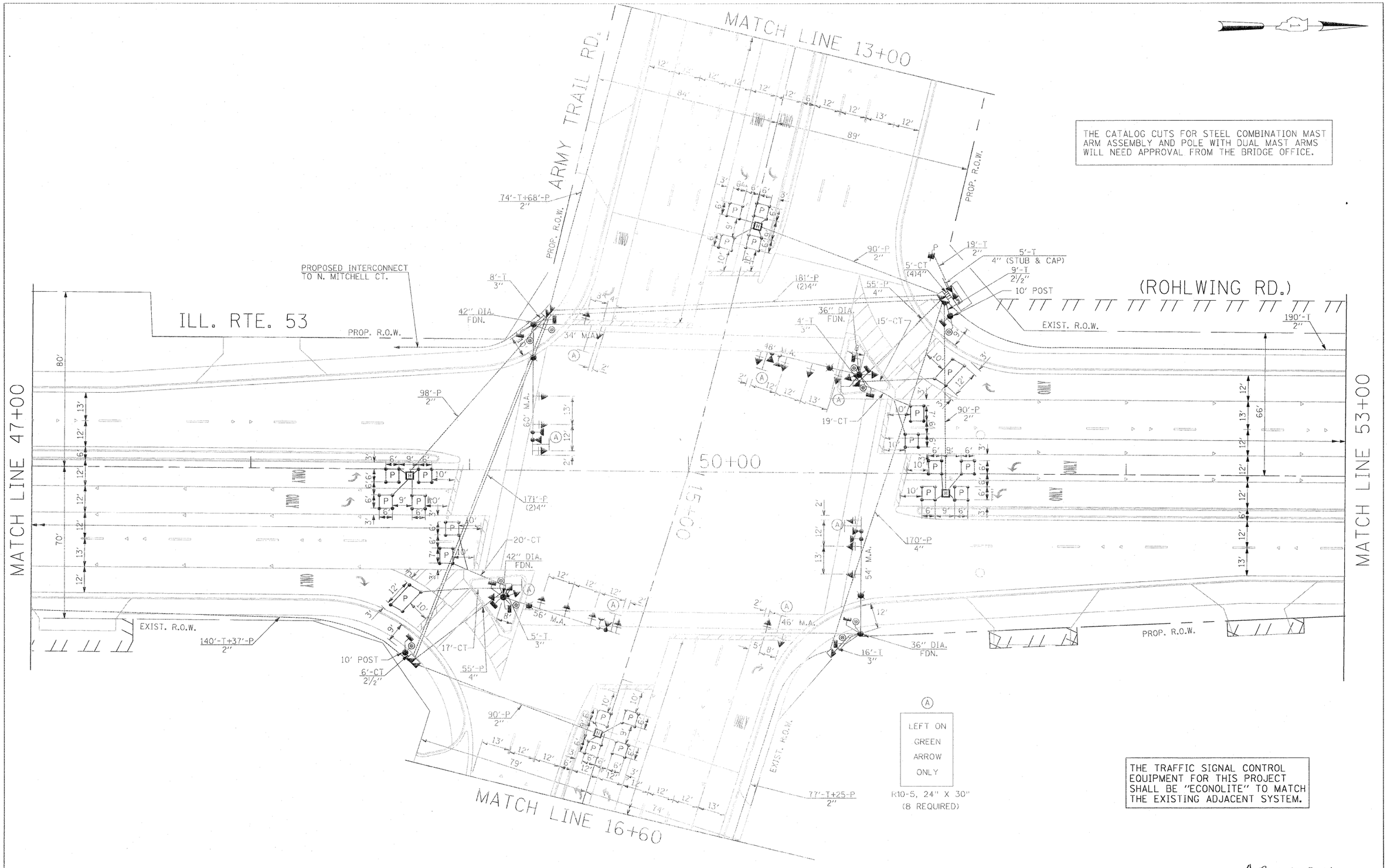
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
ILL. RTE. 53 (ROHLWING RD.) AT ARMY TRAIL RD.
STAGE 1 - SUB STAGES 2, 3, STAGE 2 - SUB STAGES 1, 2, 3, AND STAGE 3

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

Rev. 6-8-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	444
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



THE CATALOG CUTS FOR STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS WILL NEED APPROVAL FROM THE BRIDGE OFFICE.

Ⓐ LEFT ON GREEN ARROW ONLY

R10-5, 24" X 30"
(8 REQUIRED)

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

⚠ Rev. 6-8-11

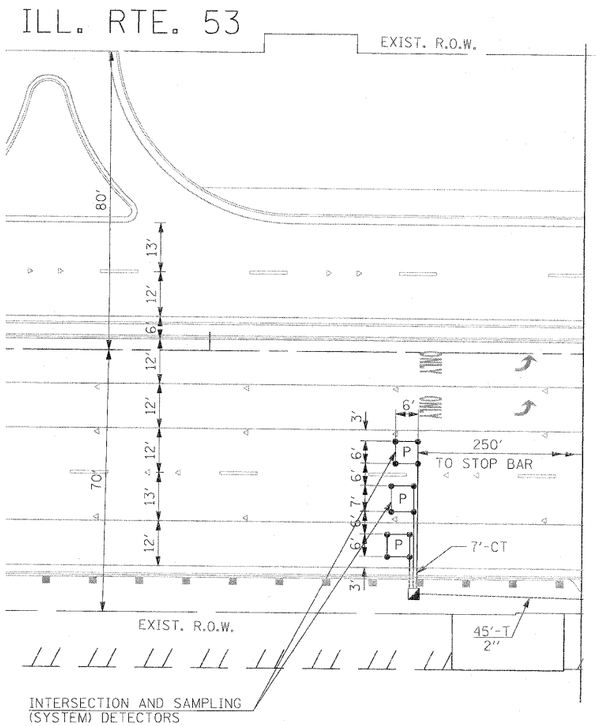
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

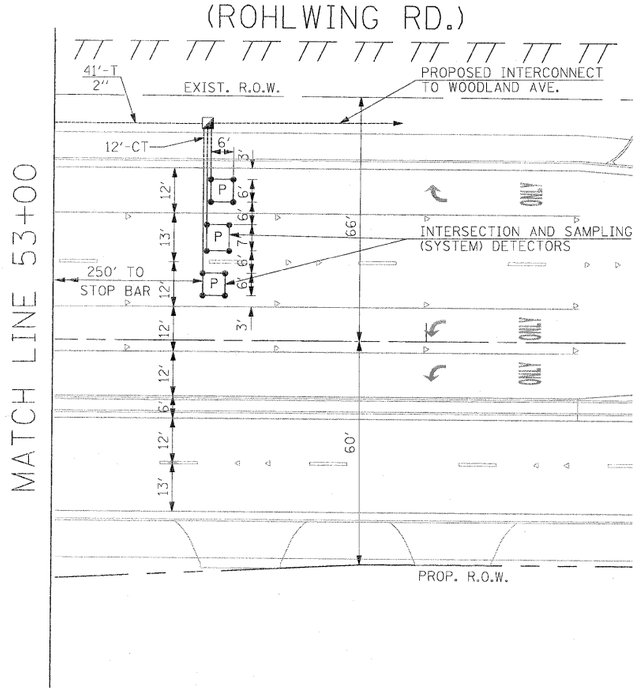
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARMY TRAIL RD.
(SHEET 1 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	445
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





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

Δ Rev. 6-8-11

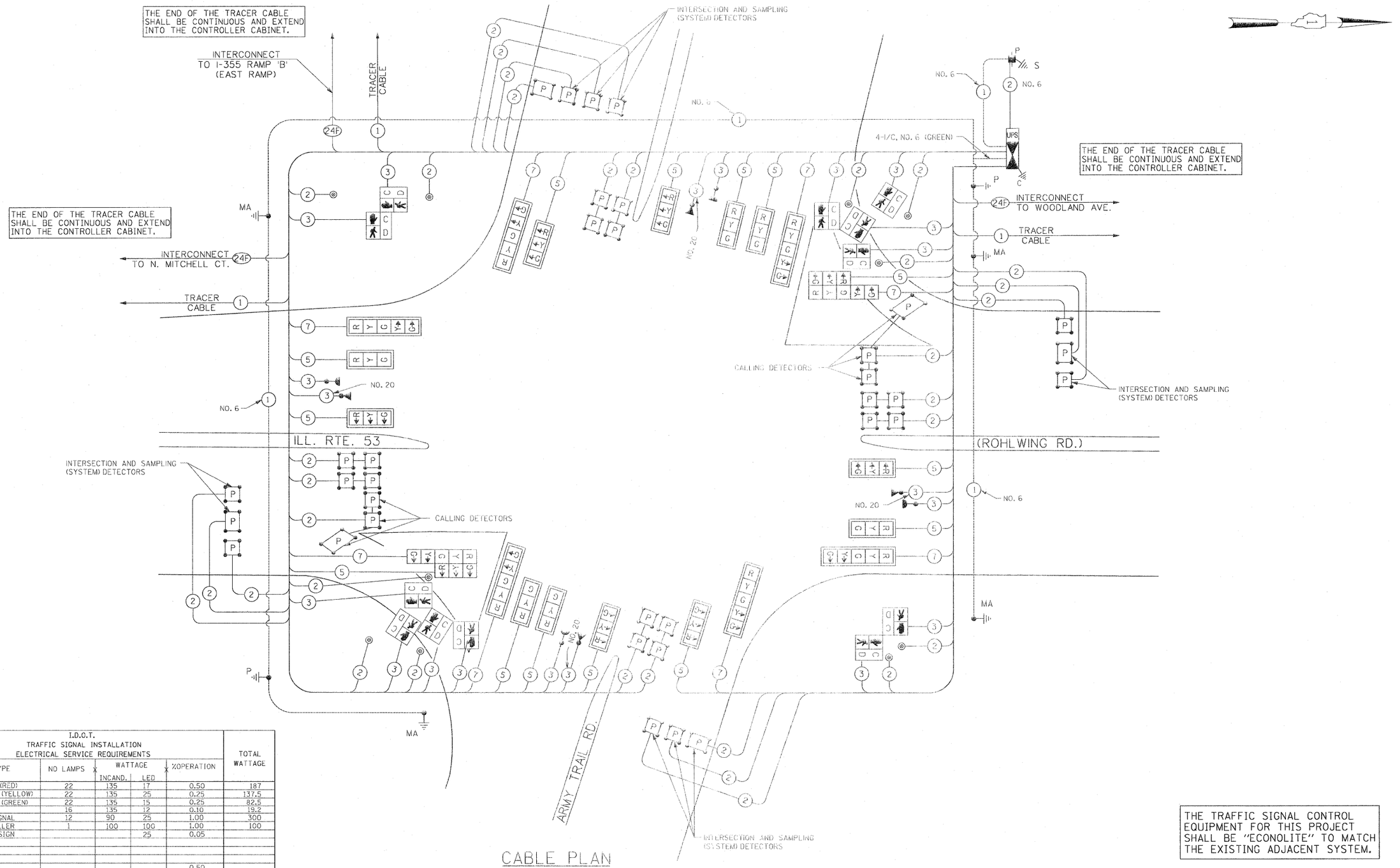
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARMY TRAIL RD.
(SHEET 2 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	446
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



CABLE PLAN
(NOT TO SCALE)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	
SIGNAL (RED)	22	135	17	0.50	187
(YELLOW)	22	135	25	0.25	137.5
(GREEN)	22	135	15	0.25	82.5
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	12	90	25	1.00	300
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	826.2

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

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

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARMY TRAIL RD.

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

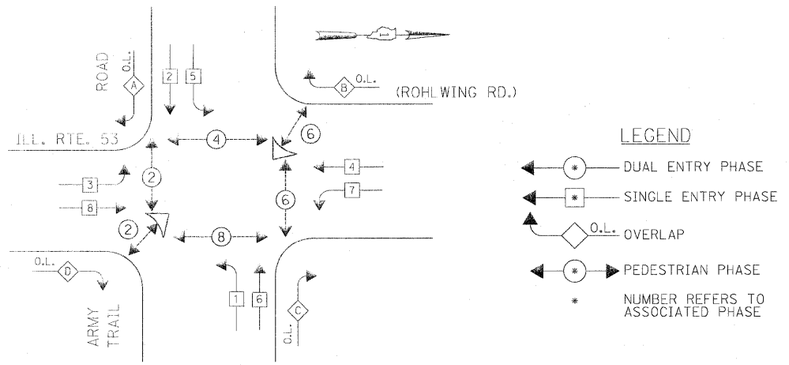
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	447
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

	QUANTITY	UNIT	ITEM
	55	SQ FT	SIGN PANEL - TYPE 1
	19.5	SQ FT	SIGN PANEL - TYPE 2
	752	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
	15	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
	33	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
	25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
	618	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
	984	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
	7	EACH	HANDHOLE
	4	EACH	HEAVY-DUTY HANDHOLE
	3	EACH	DOUBLE HANDHOLE
	804	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
	1	EACH	TRANSCEIVER-FIBER OPTIC
	2516	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
	4437	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
	4335	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
	2291	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
	8666	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
	39	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 56 FT.
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 54 FT. AND 46 FT.
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 60 FT. AND 34 FT.
	8	FOOT	CONCRETE FOUNDATION, TYPE A
	4	FOOT	CONCRETE FOUNDATION, TYPE C
	29	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
	43	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
	12	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
	6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
	2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
	18	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
	23	EACH	INDUCTIVE LOOP DETECTOR
*	4	EACH	LIGHT DETECTOR
*	1	EACH	LIGHT DETECTOR AMPLIFIER
	10	EACH	PEDESTRIAN PUSH-BUTTON
	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
	15	EACH	REMOVE EXISTING HANDHOLE
	10	EACH	REMOVE EXISTING CONCRETE FOUNDATION
	1331	FOOT	PREFORMED DETECTOR LOOP
	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
	929	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
*	1270	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF ADDISON

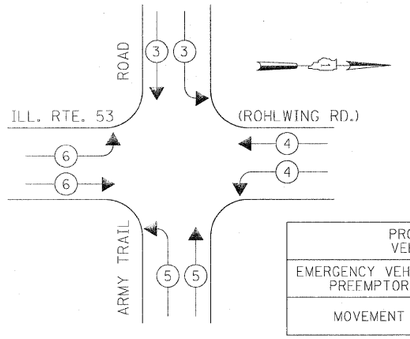
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

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

Δ Rev. 6-8-11

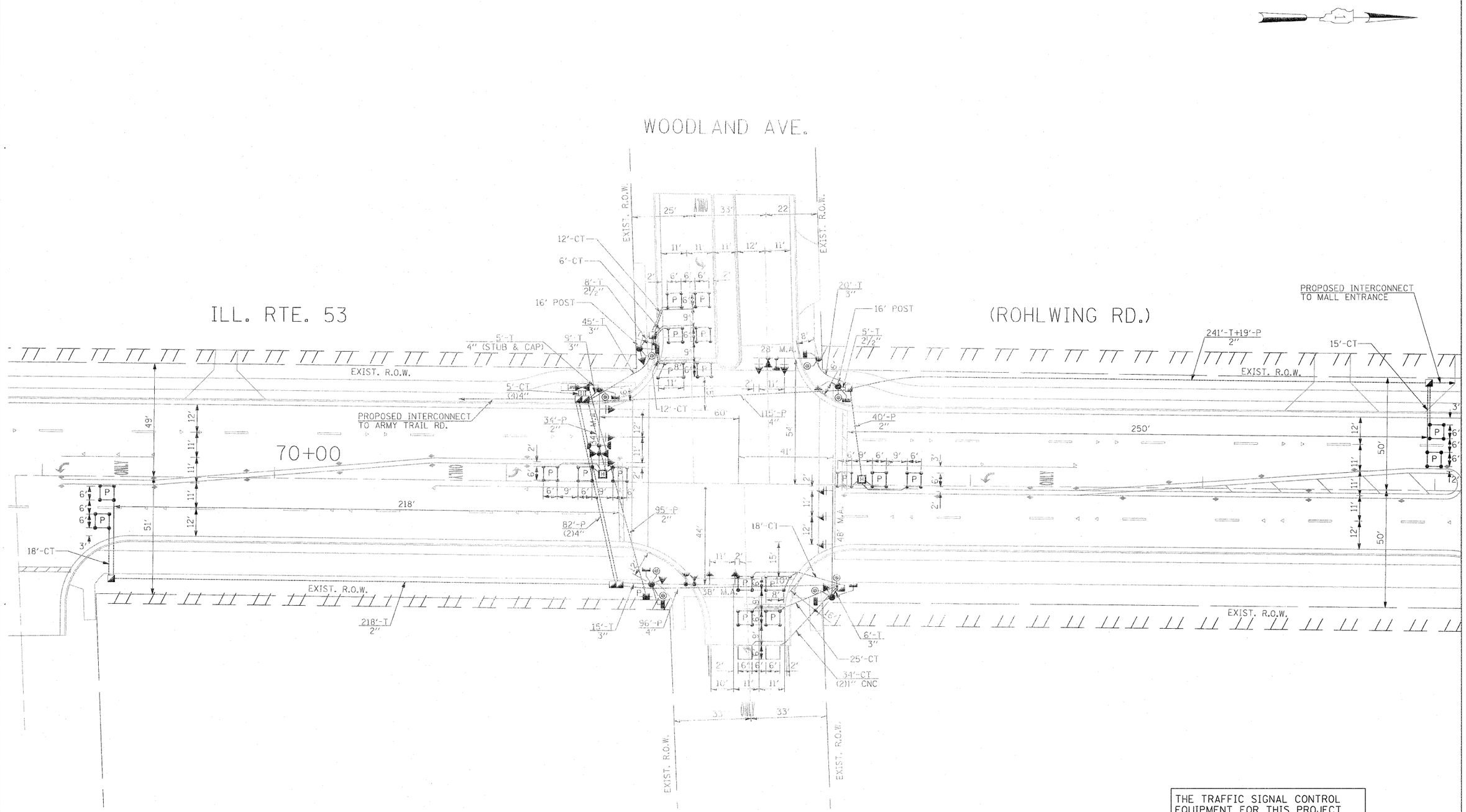
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM
EMERGENCY VEHICLE PREEMPTION SEQUENCE
SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARMY TRAIL RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	448
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT WOODLAND AVE.

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

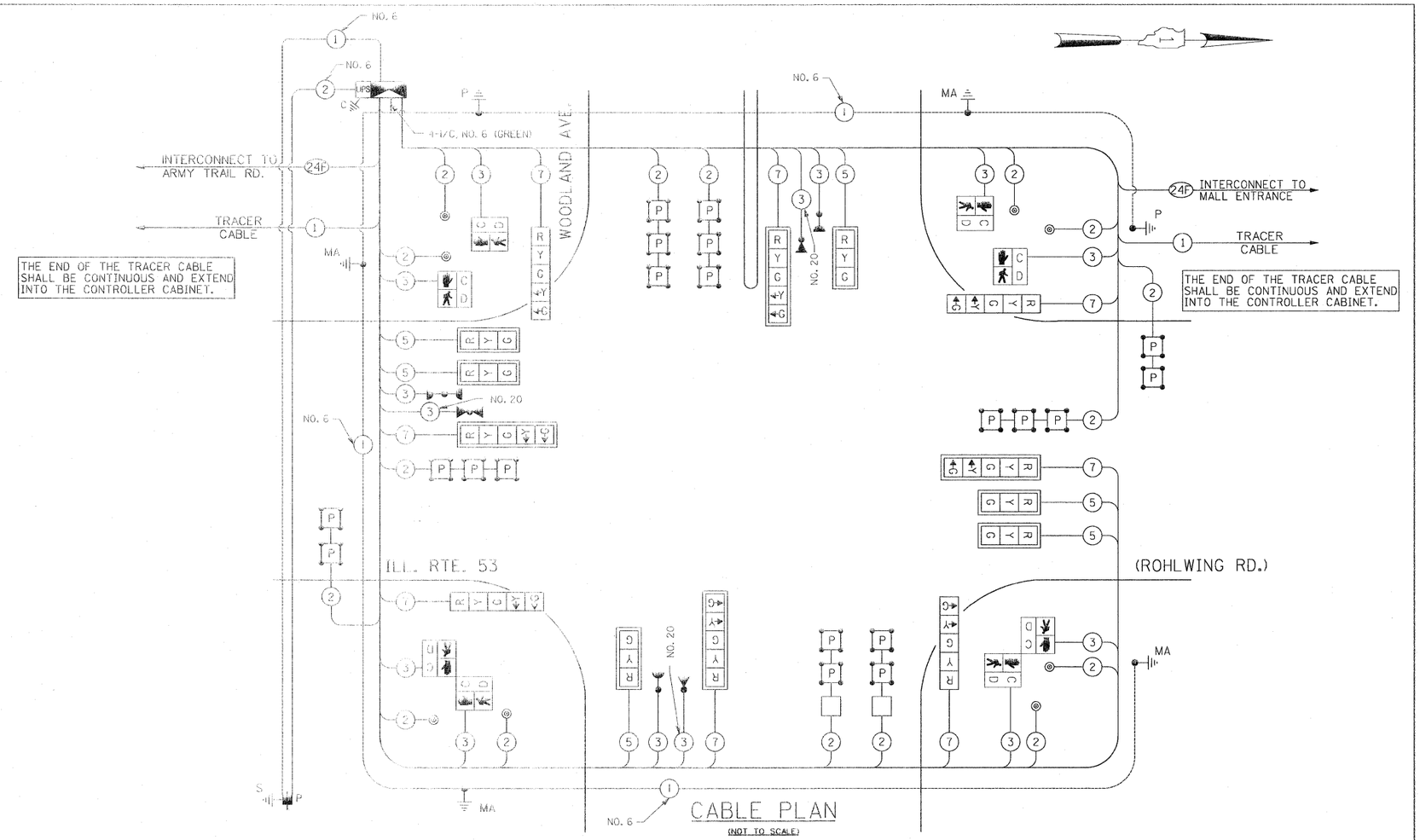
1 Rev. 6-8-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	449
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

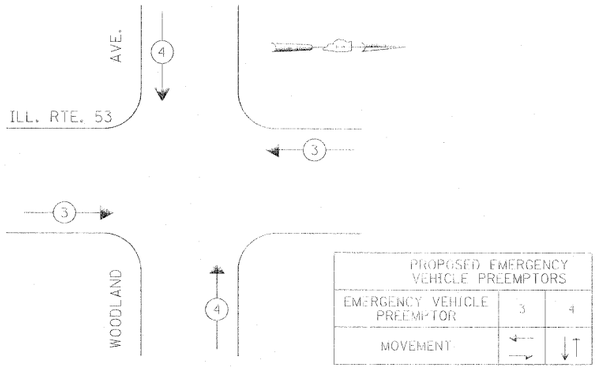
SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
33	SQ FT	SIGN PANEL - TYPE 1
459	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
13	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
95	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
188	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
375	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
581	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1232	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1769	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1094	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1460	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1600	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
115	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLEY AND POLE, 28 FT.
1	EACH	STEEL MAST ARM ASSEMBLEY AND POLE, 34 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.
8	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
35	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	INDUCTIVE LOOP DETECTOR
64	FOOT	DETECTOR LOOP, TYPE 1
* 3	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
8	EACH	PEDESTRIAN PUSH-BUTTON
667	FOOT	PREFORMED DETECTOR LOOP
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
706	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 481	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF ADDISON

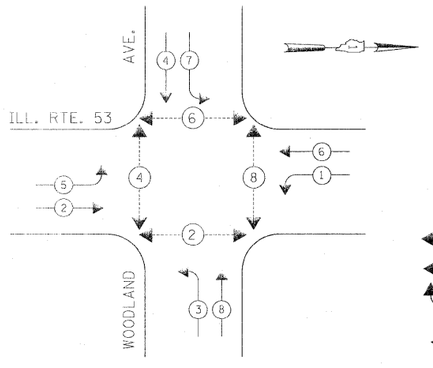


EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↓

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

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

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. 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)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
* (GREEN)	14	135	15	0.25	52.5
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	578.2

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREMEEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT WOODLAND AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	450
		CONTRACT NO. 60477		

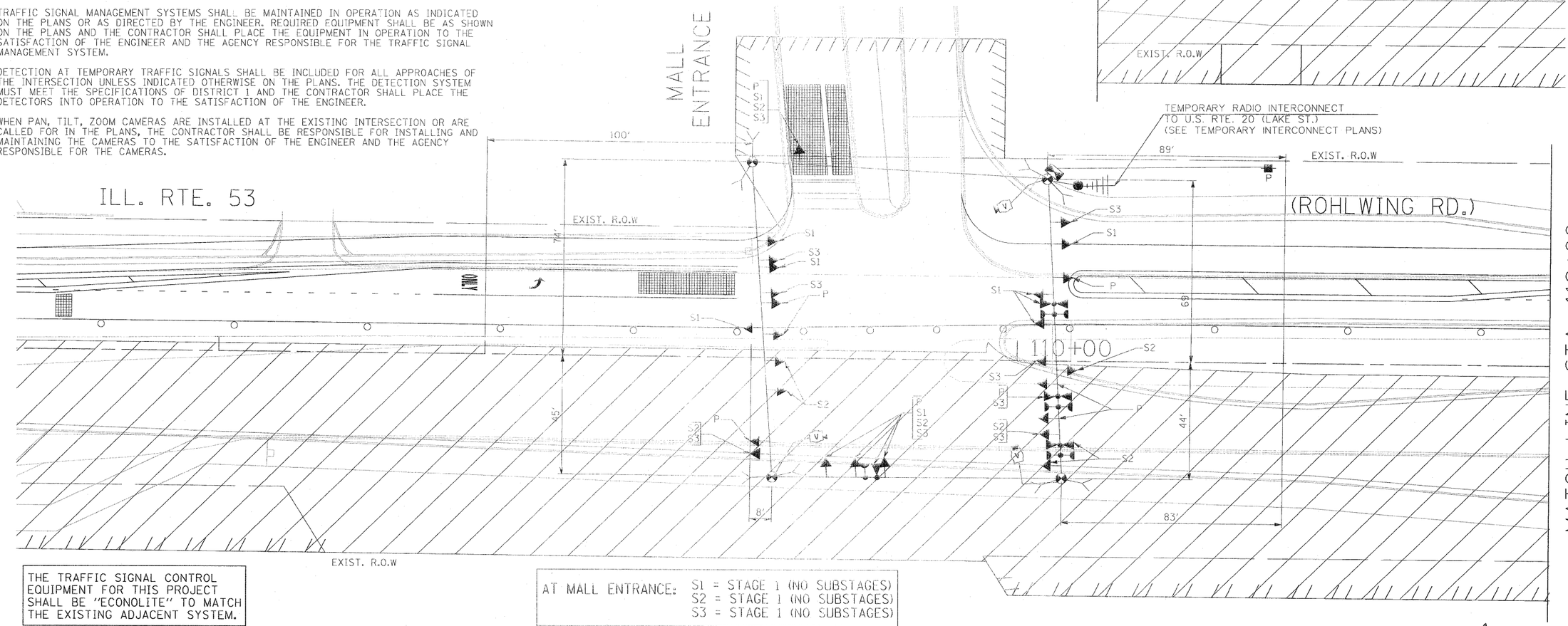
FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
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.

NOTE 1: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 – SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

NOTE 2: THE SIGNAL HEAD PLACEMENT FOR MALL ENTRANCE FOR CONSTRUCTION STAGES S2 AND S3 SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR DEPENDING ON THE CONSTRUCTION STAGING USED BY THE CONTRACTOR FOR MALL ENTRANCE.



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

AT MALL ENTRANCE: S1 = STAGE 1 (NO SUBSTAGES)
S2 = STAGE 1 (NO SUBSTAGES)
S3 = STAGE 1 (NO SUBSTAGES)

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

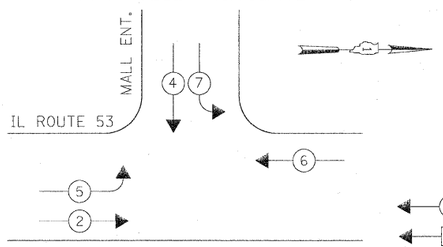
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MALL ENTRANCE
PRE STAGE, STAGE 1, STAGE 2, AND STAGE 3 (SHEET 1 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	451
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



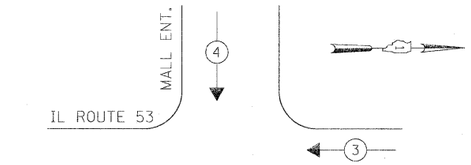
PHASE DESIGNATION DIAGRAM

STAGES: PRE-STAGE, STAGE 1, STAGE 2
STAGE 3, AND AFTER PROPOSED
ROADWAY GEOMETRICS ARE BUILT

LEGEND

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



3

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

STAGES: PRE-STAGE, STAGE 1, STAGE 2,
STAGE 3, AND AFTER PROPOSED
ROADWAY GEOMETRICS ARE BUILT

TEMPORARY CABLE PLAN

(NOT TO SCALE)

PRE-STAGE, STAGE 1, STAGE 2, STAGE 3,
AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	
SIGNAL (RED)	10	135	17	0.50	85
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	439.8

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

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

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

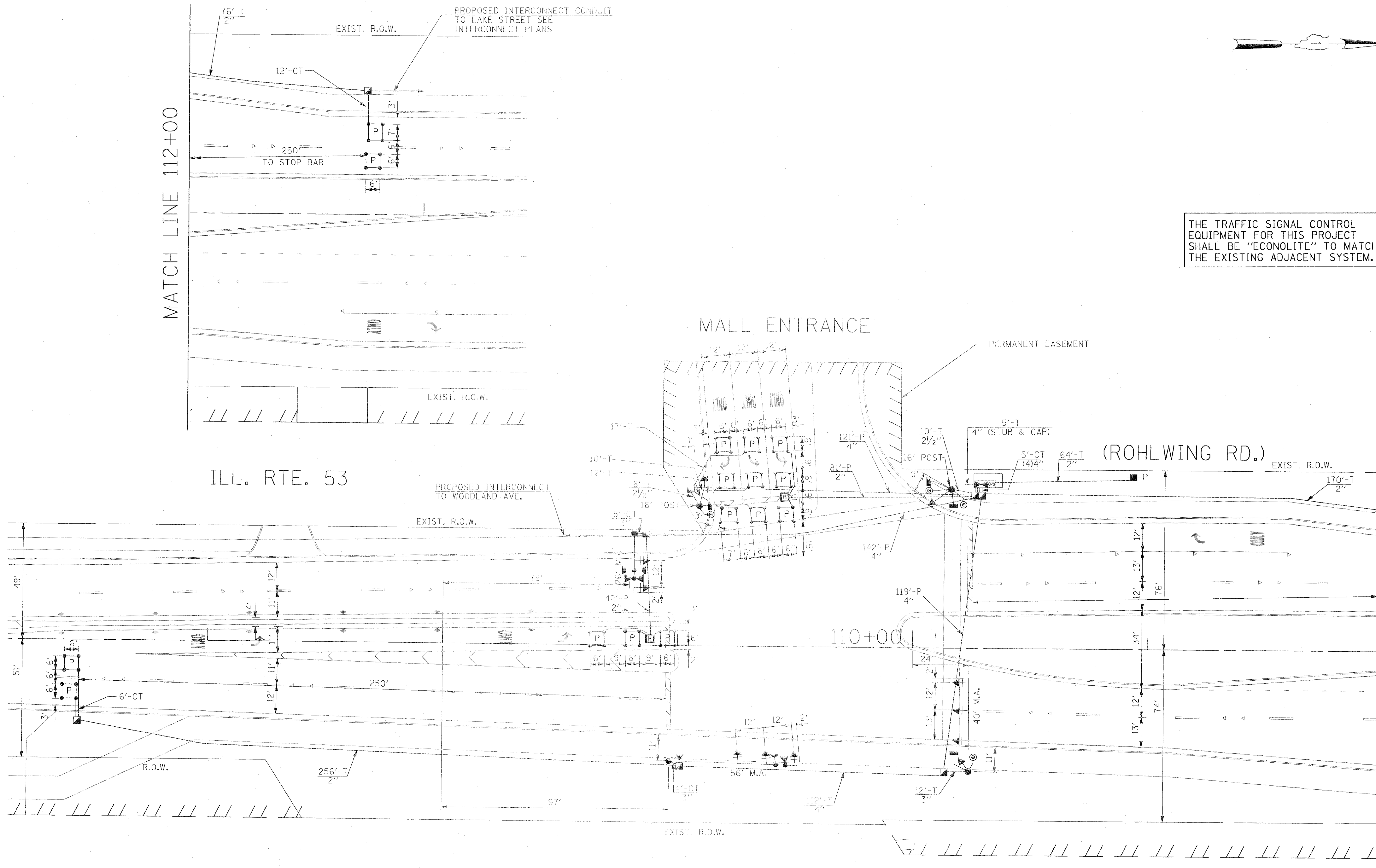
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MALL ENTRANCE
PRE-STAGE, STAGE 1, STAGE 2, AND STAGE 3 (SHEET 2 OF 2).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	452
		CONTRACT NO. 60477		

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



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

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MALL ENTRANCE

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

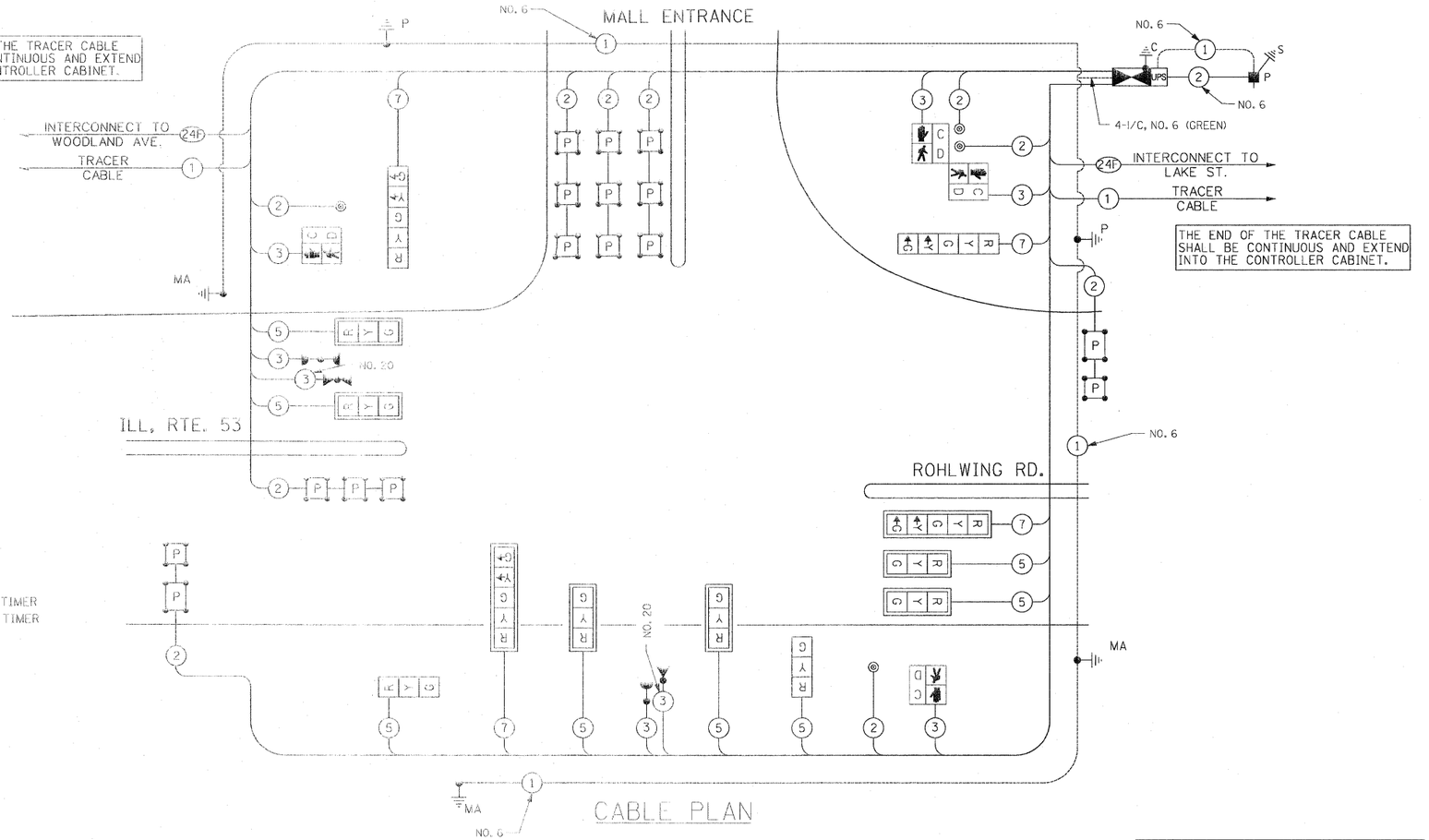
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	453
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
7.5	SQ FT	SIGN PANEL - TYPE 1
19.5	SQ FT	SIGN PANEL - TYPE 2
566	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
18	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
21	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
137	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
123	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
382	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
6	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
718	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
427	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1026	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2001	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
775	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1434	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
84	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.
8	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
13	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
21	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
6	EACH	INDUCTIVE LOOP DETECTOR
* 2	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
521	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
756	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 571	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

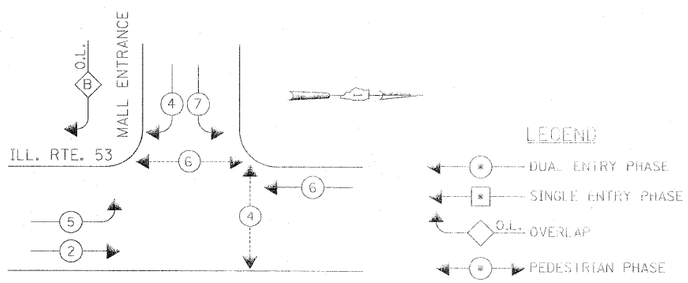
* 100% COST TO VILLAGE OF ADDISON

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



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

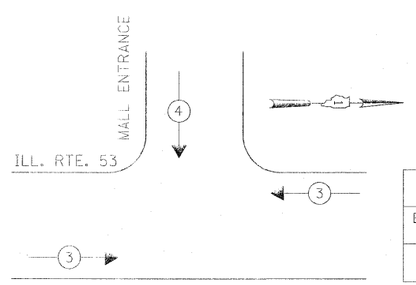
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	431.6

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MALL ENTRANCE

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

Δ Rev. 6-8-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	454
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
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.

THE CONTRACTOR SHALL CONTACT THE ENFORCEMENT CAMERA VENDOR AND THE MUNICIPALITY TO ADVISE THEM OF THE PROPOSED IMPROVEMENT FOR REMOVAL OF THEIR EQUIPMENTS, TWO WEEKS PRIOR TO START OF WORK. THE CONTACT INFORMATION IS:

MUNICIPALITY		VENDOR
VILLAGE OF ADDISON	NAME	REDSPEED ILLINOIS
RUDY ESPEDIDO	CONTACT	ROBYN LEIGHTON
(630) 693-7533	PHONE	(630) 317-5736

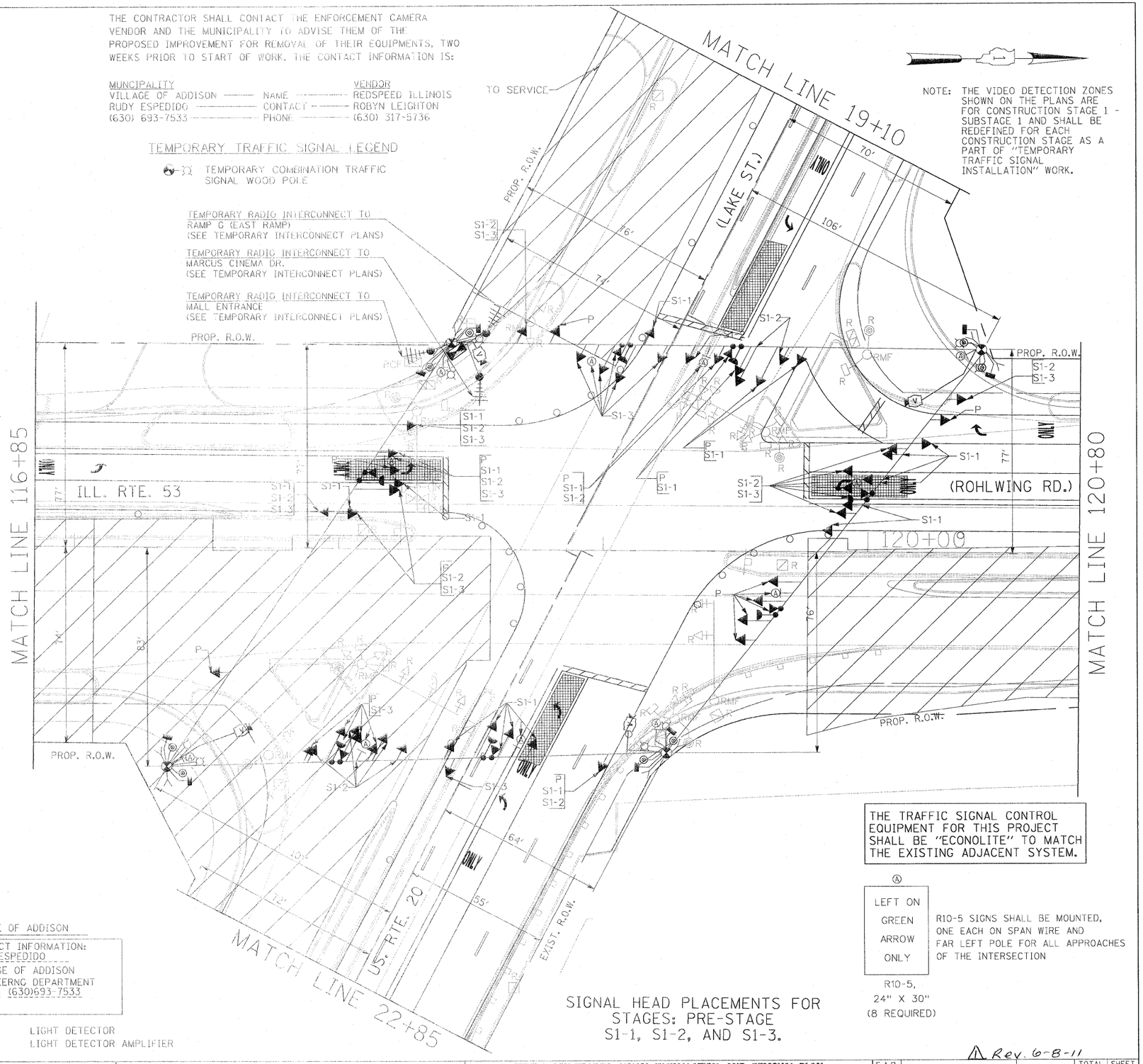
TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY COMBINATION TRAFFIC SIGNAL WOOD POLE

TEMPORARY RADIO INTERCONNECT TO RAMP G (EAST RAMP) (SEE TEMPORARY INTERCONNECT PLANS)

TEMPORARY RADIO INTERCONNECT TO MARCUS CINEMA DR. (SEE TEMPORARY INTERCONNECT PLANS)

TEMPORARY RADIO INTERCONNECT TO MALL ENTRANCE (SEE TEMPORARY INTERCONNECT PLANS)



NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

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

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

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

AGENCY: VILLAGE OF ADDISON

CONTACT INFORMATION:
RUDY ESPEDIDO
VILLAGE OF ADDISON
ENGINEERNG DEPARTMENT
PHONE: (630)693-7533

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

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

Ⓐ
LEFT ON GREEN ARROW ONLY

R10-5, 24" X 30" (8 REQUIRED)

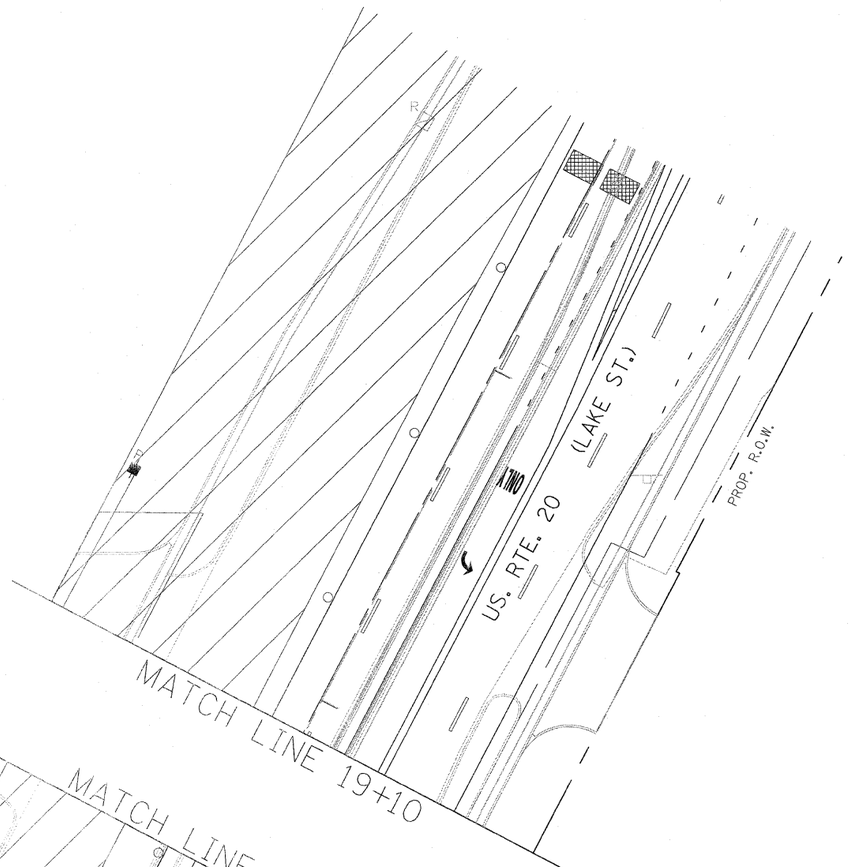
R10-5 SIGNS SHALL BE MOUNTED, ONE EACH ON SPAN WIRE AND FAR LEFT POLE FOR ALL APPROACHES OF THE INTERSECTION

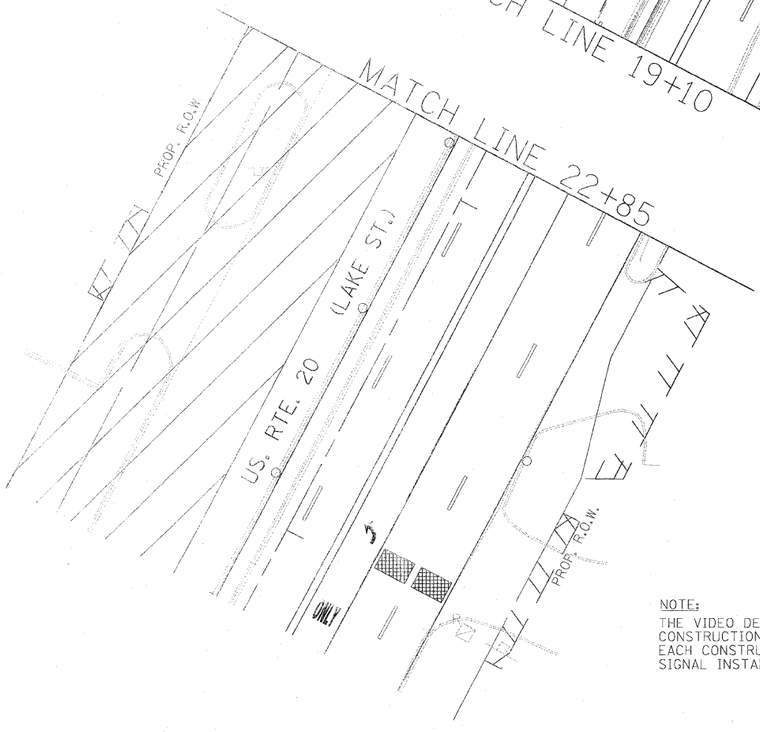
SIGNAL HEAD PLACEMENTS FOR STAGES: PRE-STAGE S1-1, S1-2, AND S1-3.

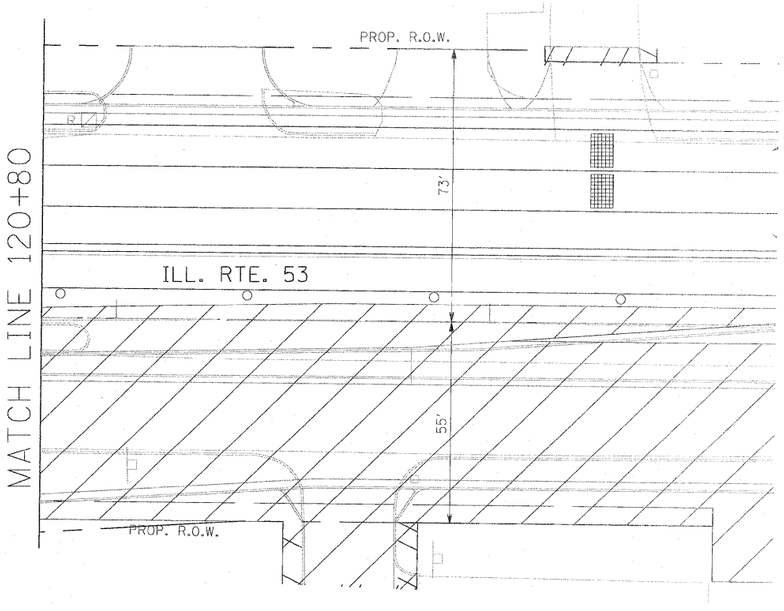
⚠ Rev. 6-8-11

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN ILLINOIS ROUTE 53 (ROHLWING RD.) AT U.S. ROUTE 20 (LAKE ST.) PRE STAGE AND STAGE 1 (SHEET 1 OF 6).
		DRAWN - MAA, EA	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	455
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		







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

NOTE:
THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT U.S. ROUTE 20 (LAKE ST.) PRE STAGE AND STAGE 1 (SHEET 2 OF 6)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	456
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY COMBINATION TRAFFIC SIGNAL WOOD POLE

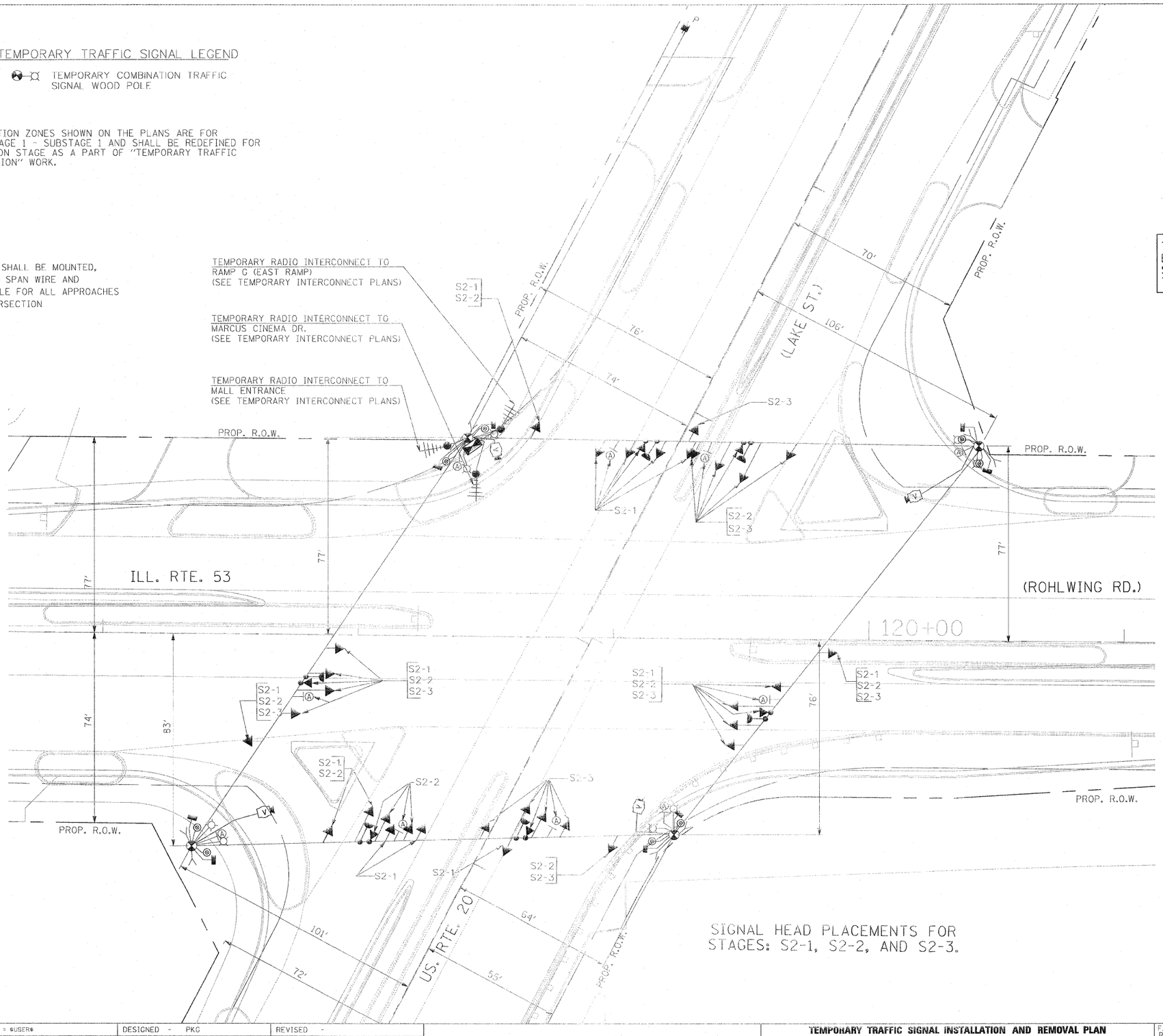
NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

Ⓐ
LEFT ON GREEN ARROW ONLY

R10-5,
24" X 30"
(8 REQUIRED)

R10-5 SIGNS SHALL BE MOUNTED, ONE EACH ON SPAN WIRE AND FAR LEFT POLE FOR ALL APPROACHES OF THE INTERSECTION

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



SIGNAL HEAD PLACEMENTS FOR STAGES: S2-1, S2-2, AND S2-3.

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT U.S. ROUTE 20 (LAKE ST.) STAGE 2
(SHEET 3 OF 6)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	457
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY COMBINATION TRAFFIC SIGNAL WOOD POLE

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

Ⓐ
LEFT ON GREEN ARROW ONLY

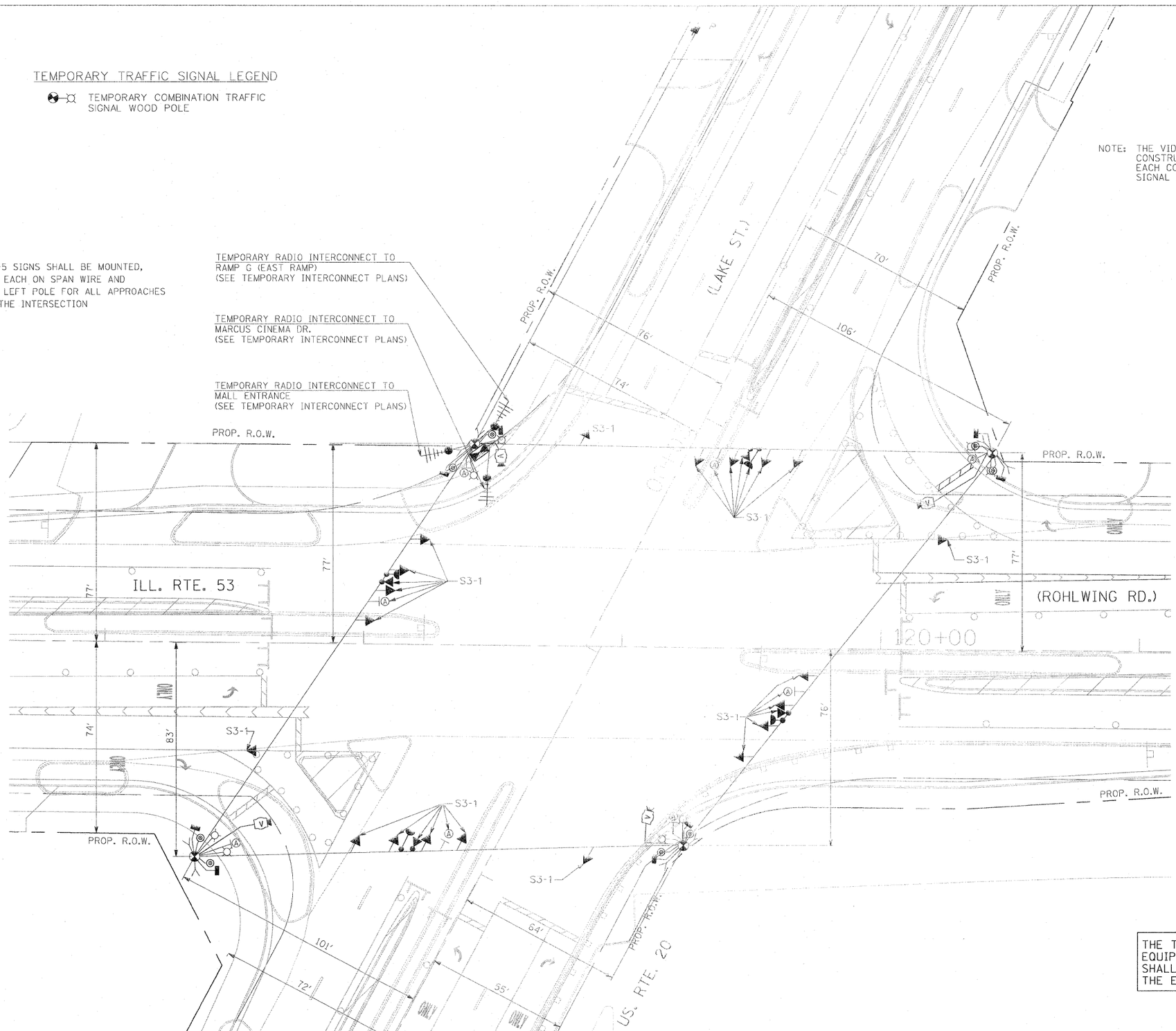
R10-5,
24" X 30"
(8 REQUIRED)

R10-5 SIGNS SHALL BE MOUNTED, ONE EACH ON SPAN WIRE AND FAR LEFT POLE FOR ALL APPROACHES OF THE INTERSECTION

TEMPORARY RADIO INTERCONNECT TO RAMP G (EAST RAMP) (SEE TEMPORARY INTERCONNECT PLANS)

TEMPORARY RADIO INTERCONNECT TO MARCUS CINEMA DR. (SEE TEMPORARY INTERCONNECT PLANS)

TEMPORARY RADIO INTERCONNECT TO MALL ENTRANCE (SEE TEMPORARY INTERCONNECT PLANS)



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

1 Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

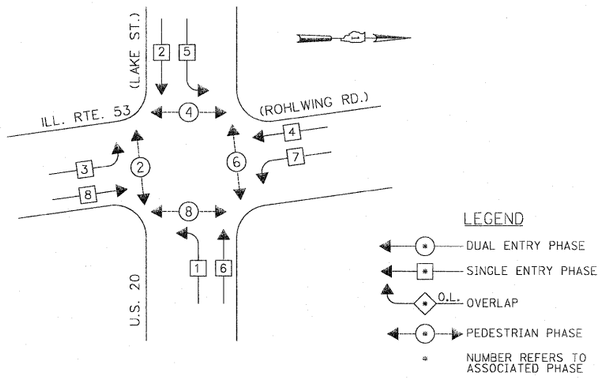
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT U.S. ROUTE 20 (LAKE ST.) STAGE 3
(SHEET 4 OF 6)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	458
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

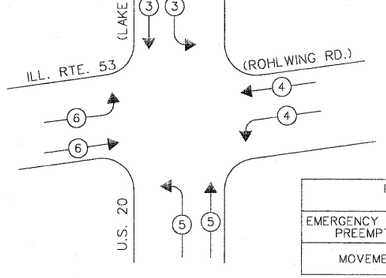
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: PRE-STAGE, S1-1, S2-3, S3,
AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

EMERGENCY VEHICLE PREEMPTION SEQUENCE



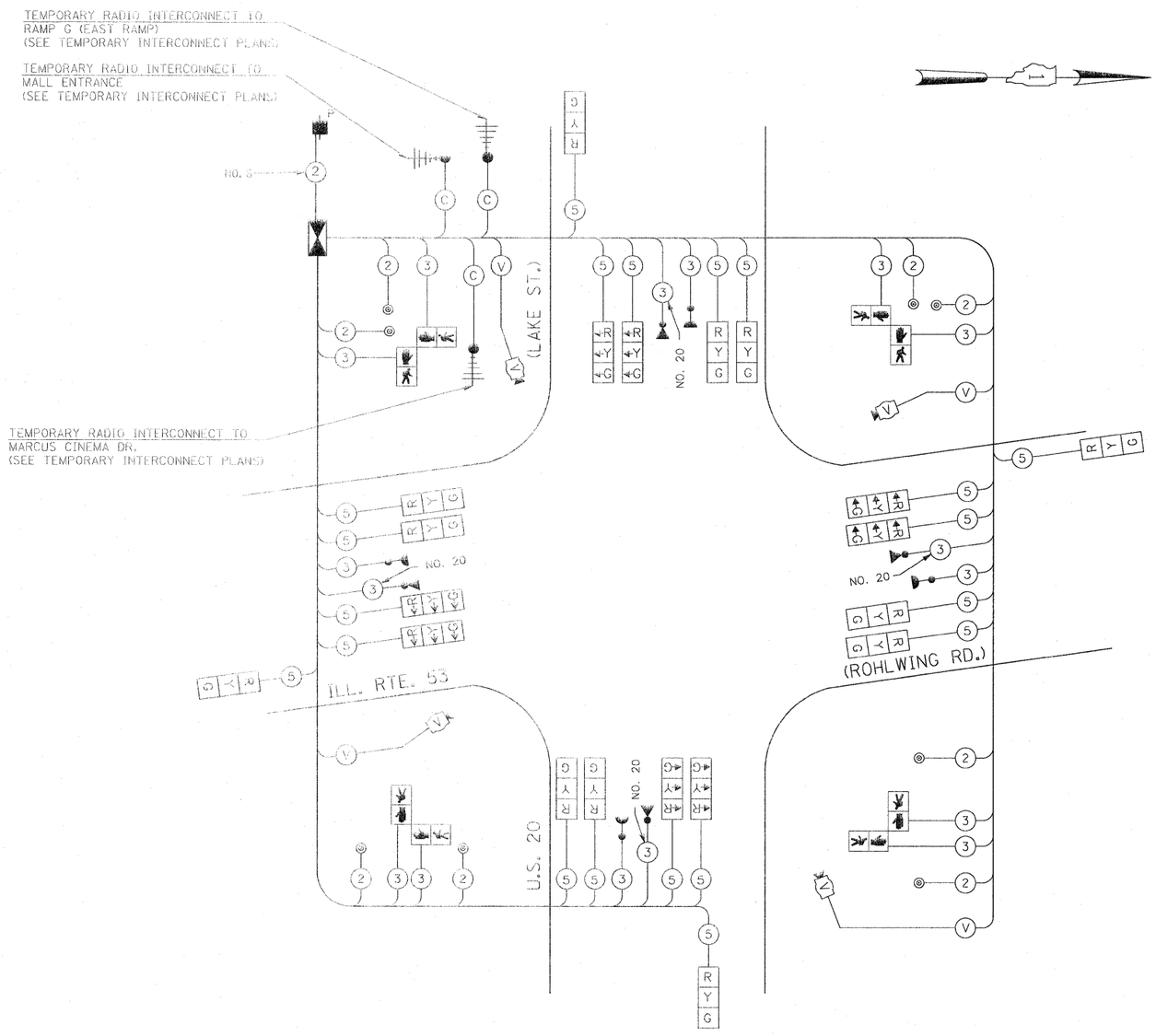
PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	↓↓	←	↑↑	→

STAGES: PRE-STAGE, S1-1, S2-3, S3,
AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS X	WATTAGE INCAND.	WATTAGE LED	X %OPERATION	
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	620

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

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON



TEMPORARY CABLE PLAN

(NOT TO SCALE)

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2,
S2-3, S3, AND
AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

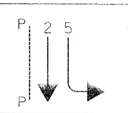
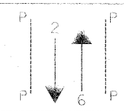
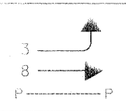
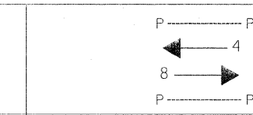
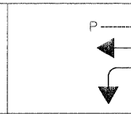
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ILLINOIS ROUTE 53 (ROHLWING RD.) AT U.S. 20 (LAKE ST.).
PRE-STAGE, STAGE 1, STAGE 2, AND STAGE 3 AS NOTED (SHEET 6 OF 6).

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

Rev. 6-8-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	459
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

TEMPORARY SEQUENCE OF OPERATION (FOR STAGE 1, SUB STAGES 2,3 AND STAGE 2, SUB STAGES 1, 2 WITH LEAD-LAG OPERATION FOR US RTE. 20 AND ILL. RTE. 53)

MOVEMENT																																											FLASH
PHASE		2+5						2+6							1+6						3+8						4+8								4+7						
INTERVAL		1	2	3A	3B	4A	4B	5	6	7A	7B	8A	8B	9A	9B	10	11	12A	12B	13A	13B	14	15	16A	16B	17A	17B	18	19	20A	20B	21A	21B	22A	22B	23	24	25A	25B	26A	26B	
CHANGE TO		ø	ø	1+6 3+8 4+7 4+8		2+6				1+6		2+5		3+8 4+7 4+8				2+5 3+8 4+7 4+8		2+6		ø	ø	1+6 2+5 2+6 4+7		4+8				4+7		3+8		1+6 2+5 2+6				1+6 2+5 2+6 3+8		4+8		
US ROUTE 20 (LAKE STREET) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	E/B	G	G	Y	R	G	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
US ROUTE 20 (LAKE STREET) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	E/B	◄G	◄G	◄Y	◄R	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
US ROUTE 20 (LAKE STREET) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	W/B	R	R	R	R	R	R	G	G	G	G	Y	R	Y	R	G	G	Y	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
US ROUTE 20 (LAKE STREET) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	W/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄G	◄Y	◄R	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	C	G	Y	R	G	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	N/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄G	◄Y	◄R	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	Y	R	G	G	Y	R	G	G	R
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	S/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄G	◄Y	◄R	◄Y	◄R	◄R	
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON NORTH SIDE OF US ROUTE 20 (LAKE STREET)		H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	DARK
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON SOUTH SIDE OF US ROUTE 20 (LAKE STREET)		*P	**FH	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	DARK
PEDESTRIAN SIGNALS - CROSSING US ROUTE 20 (LAKE STREET) ON EAST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	DARK
PEDESTRIAN SIGNALS - CROSSING US ROUTE 20 (LAKE STREET) ON WEST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	*P	**FH	H	H	H	H	DARK

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

PHASE 2 + 6 SHALL BE PLACED ON RECALL.

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.

** FLASHING " ✋ " IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

ø THIS " 🚶 " OR FLASHING " ✋ " INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE " 🚶 " OR FLASHING " ✋ " INTERVALS. " 🚶 " AND FLASHING " ✋ " TIMINGS TO BE SET ONLY ON THE PHASES WHERE " 🚶 " AND FLASHING " ✋ " ARE INDICATED IN THE SEQUENCE OF OPERATION.

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

Δ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SEQUENCE OF OPERATION
ILL. RTE. 53 (ROHLWING RD.) AT US RTE. 20 (LAKE ST.) STAGE 1, SUB STAGES 2, 3 AND STAGE 2, SUB STAGES 1, 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	460
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

TEMPORARY EMERGENCY VEHICLE SEQUENCE OF OPERATION (FOR STAGE 1, SUB STAGES 2, 3 AND STAGE 2, SUB STAGES 1, 2 WITH LEAD-LAG OPERATION FOR US RTE. 20 AND ILL. RTE. 53)

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	1			5			5			5			10			10	14			14	18			18			18		
EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2	1C	1D	3,4 5	1F	1G	2	1J	1K	3, 5	1M	1N	4	1Q	1R	2,3 5	4	1U	1V	2,3 4	5	1Y	1Z	2,4	1BB	1CC	3	1EE	1FF	5
US ROUTE 20 (LAKE STREET) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	E/B	G	G	Y	R	G	G	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
US ROUTE 20 (LAKE STREET) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	E/B	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
US ROUTE 20 (LAKE STREET) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	W/B	R	R	R	R	G	Y	R	G	Y	R	G	G	G	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R
US ROUTE 20 (LAKE STREET) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	W/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R	←G	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	Y	R	G	Y	R	G	G	G
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	N/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R	←G	←R	←R	←R	←R	←R	←R	←R	←R	←R
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	S/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON NORTH SIDE OF US ROUTE 20 (LAKE STREET)		H	H	H	H	FH	H	H	FH	H	H	FH	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON SOUTH SIDE OF US ROUTE 20 (LAKE STREET)		FH	FH	H	H	FH	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS - CROSSING US ROUTE 20 (LAKE STREET) ON EAST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	FH	H	H	FH	H	H	FH	H	H
PEDESTRIAN SIGNALS - CROSSING US ROUTE 20 (LAKE STREET) ON WEST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	FH	H	H

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		23			23	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1GG	1HH	1JJ	1KK	2	3	4	5	
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1HH	1JJ	2,4 5	3					
US ROUTE 20 (LAKE STREET) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	G	R	R	R	
US ROUTE 20 (LAKE STREET) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	E/B	←R	←R	←R	←R	←G	←R	←R	←R	◊
US ROUTE 20 (LAKE STREET) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	W/B	R	R	R	R	R	R	G	R	◊
US ROUTE 20 (LAKE STREET) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	W/B	←R	←R	←R	←R	←R	←R	←G	←R	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	N/B	R	R	R	R	R	R	R	G	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	N/B	←R	←R	←R	←R	←R	←R	←R	←G	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	S/B	G	Y	R	G	R	G	R	R	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	S/B	←G	←Y	←R	←G	←R	←G	←R	←R	◊
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON NORTH SIDE OF US ROUTE 20 (LAKE STREET)		H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS - CROSSING ILLINOIS ROUTE 53 (ROHLWING RD) ON SOUTH SIDE OF US ROUTE 20 (LAKE STREET)		H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS - CROSSING US ROUTE 20 (LAKE STREET) ON EAST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS - CROSSING US ROUTE 20 (LAKE STREET) ON WEST SIDE OF ILLINOIS ROUTE 53 (ROHLWING RD)		FH	H	H	FH	H	H	H	H	◊

◊ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4, OR 5 IS TERMINATED.

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

⚠ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
ILL. RTE. 53 (ROHLWING RD.) AT US RTE. 20 (LAKE ST.) STAGE 1, SUB STAGES 2, 3 AND STAGE 2, SUB STAGES 1, 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	461
		CONTRACT NO. 60477		

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

MATCH LINE B

ILL. RTE. 53

U.S. 20 (LAKE ST.)

(ROHLWING RD.)

PROPOSED INTERCONNECT TO MALL ENT.

EXIST. R.O.W.

PROP. R.O.W.

MATCH LINE 116+00

MATCH LINE 122+00

MATCH LINE A

LEFT ON GREEN ARROW ONLY

R10-5, 24" X 30" (8 REQUIRED)

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

Rev. 6-8-11

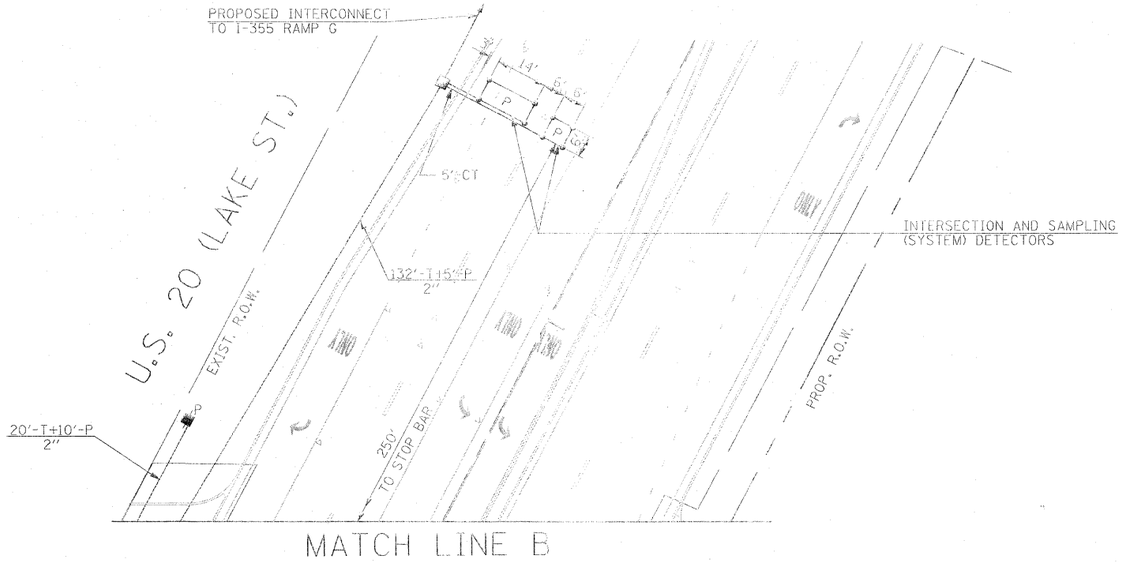
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

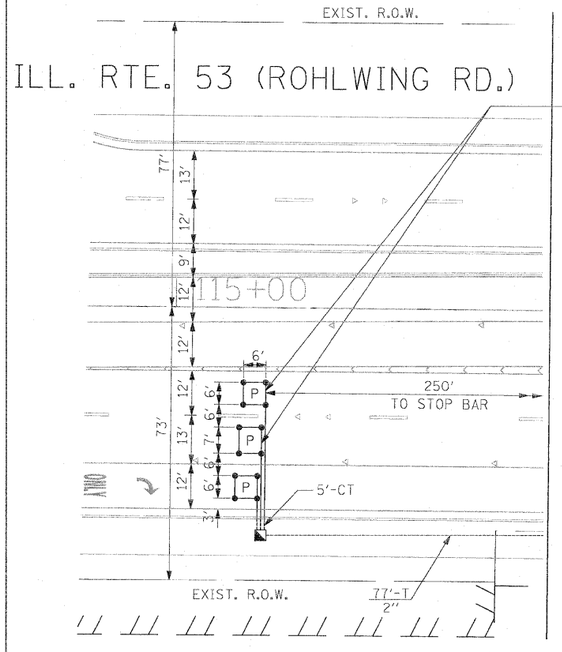
TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT U.S. 20 (LAKE ST.)
(SHEET 1 OF 2).

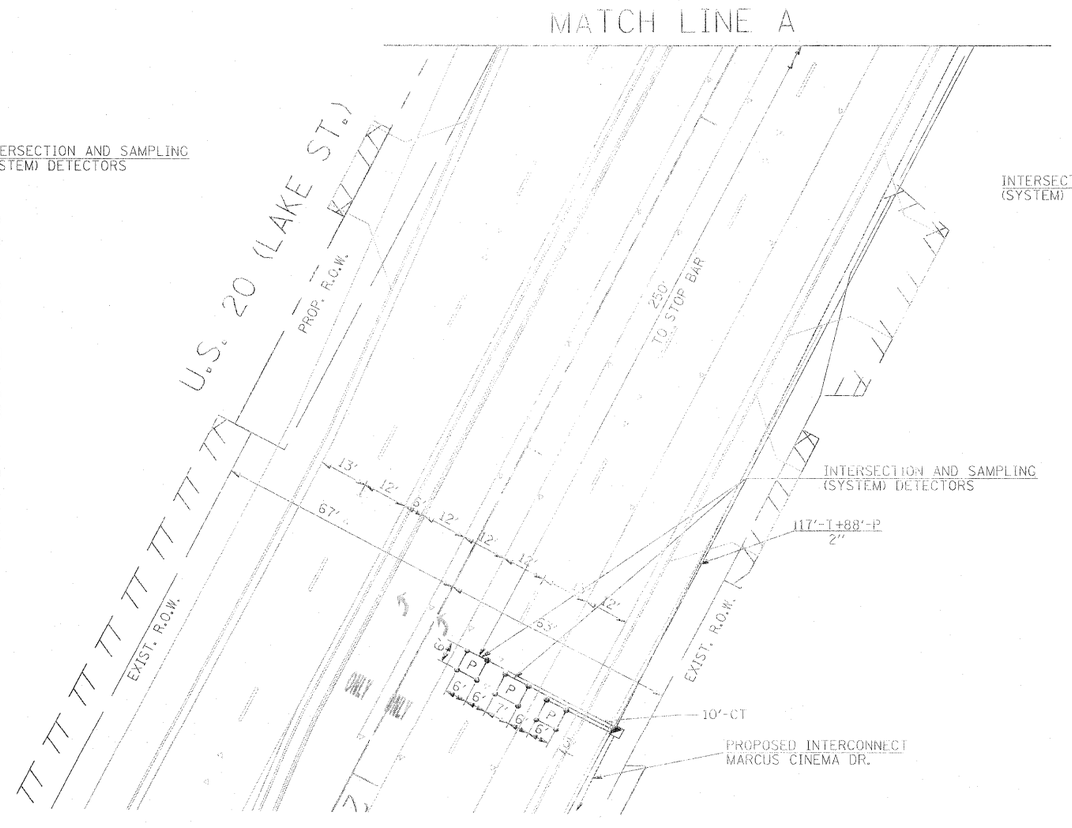
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

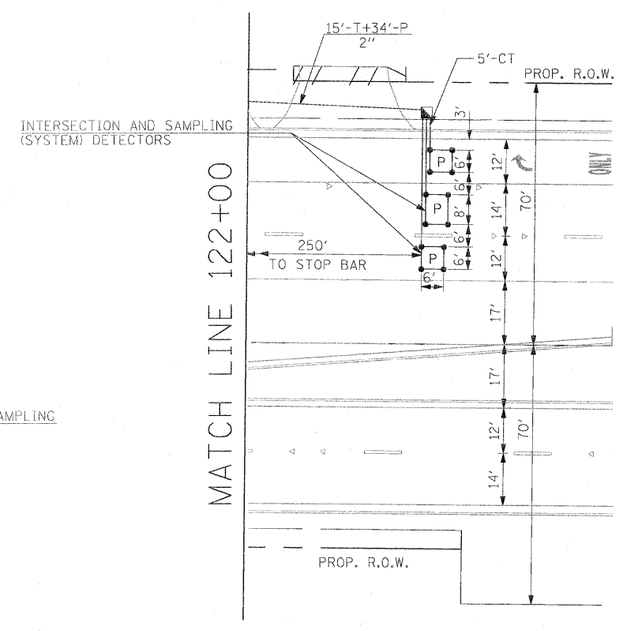
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	462
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

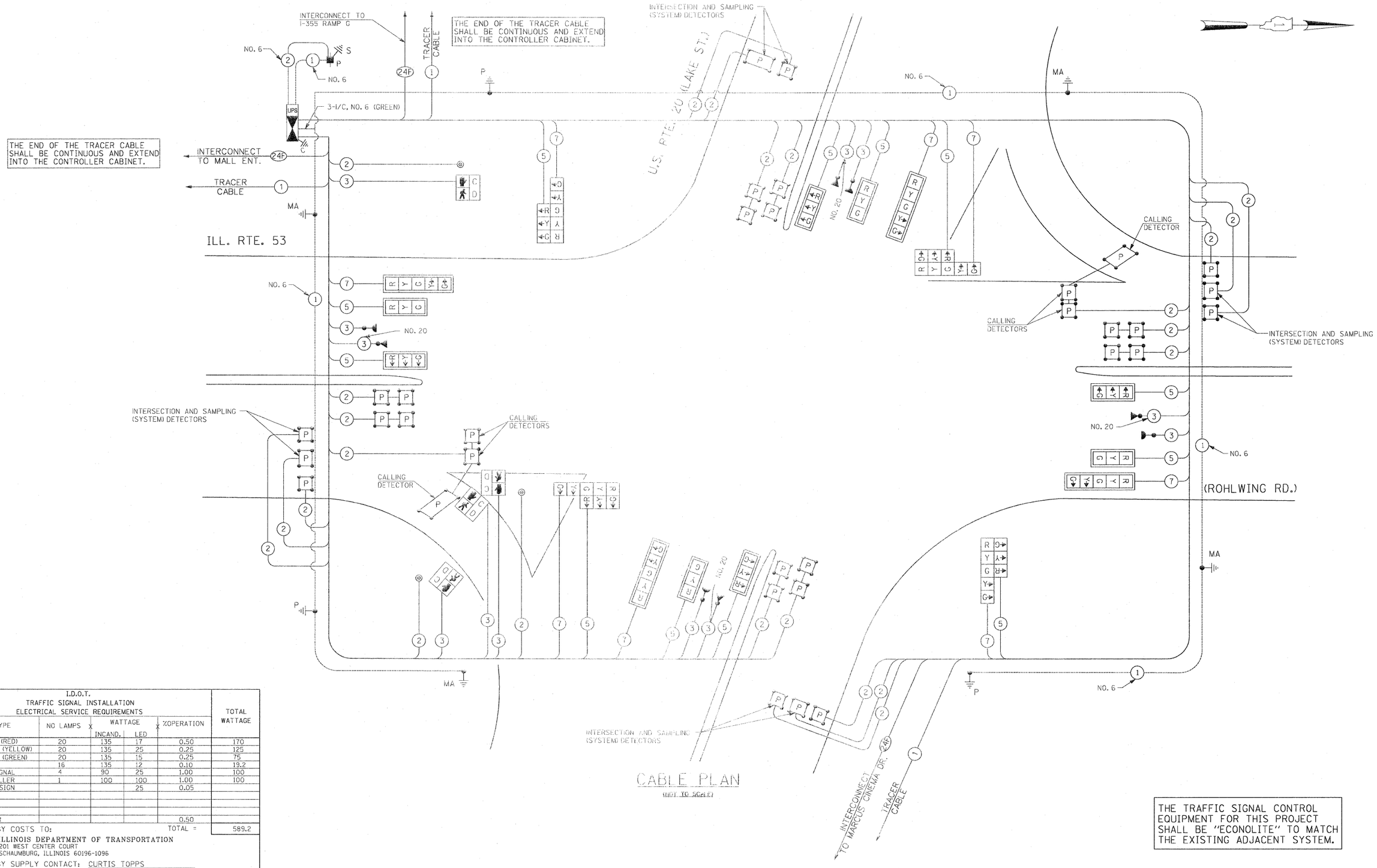






Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN ILLINOIS ROUTE 53 (ROHLWING RD.) AT U.S. 20 (LAKE ST.) (SHEET 2 OF 2).	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MAA, EA	REVISED -			2578	532B	DuPage	781	463
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -					CONTRACT NO. 60477		
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



CABLE PLAN

(NOT TO SCALE)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	589.2

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

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

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

⚠ Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

TRAFFIC SIGNAL CABLE PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT U.S. 20 (LAKE ST.) (SHEET 1 OF 2).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	464
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

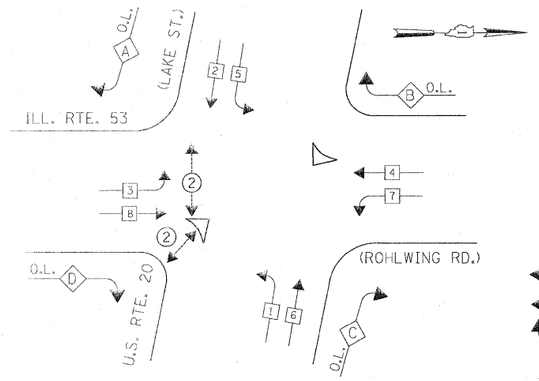
SCHEDULE OF QUANTITIES

	QUANTITY	UNIT	ITEM
	55	SQ FT	SIGN PANEL - TYPE 1
	27.5	SQ FT	SIGN PANEL - TYPE 2
	835	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
	22	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
	71	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
	263	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
	676	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
	863	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
	8	EACH	HANDHOLE
	4	EACH	HEAVY-DUTY HANDHOLE
	4	EACH	DOUBLE HANDHOLE
	1095	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
	1	EACH	TRANSCEIVER-FIBER OPTIC
	596	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
	2212	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
	3768	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
	2416	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
	8187	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
	220	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.
	2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT.
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 54 FT.
	12	FOOT	CONCRETE FOUNDATION, TYPE A
	4	FOOT	CONCRETE FOUNDATION, TYPE C
	58	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
	8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
	4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
	12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
	21	EACH	INDUCTIVE LOOP DETECTOR
*	4	EACH	LIGHT DETECTOR
*	1	EACH	LIGHT DETECTOR AMPLIFIER
	3	EACH	PEDESTRIAN PUSH-BUTTON
	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
	12	EACH	REMOVE EXISTING HANDHOLE
	9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
	1233	FOOT	PREFORMED DETECTOR LOOP
	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
	1179	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
*	1291	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF ADDISON

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

CONTROLLER SEQUENCE



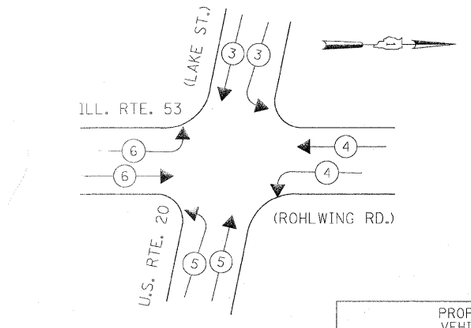
LEGEND

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

PHASE DESIGNATION DIAGRAM

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PHASE DESIGNATION DIAGRAM EMERGENCY VEHICLE PREEMPTION SEQUENCE SCHEDULE OF QUANTITIES ILLINOIS ROUTE 53 (ROHLWING RD.) AT U.S. 20 (LAKE ST.) SHEET 2 OF 2).
		DRAWN - MAA, EA	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -		
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	465
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

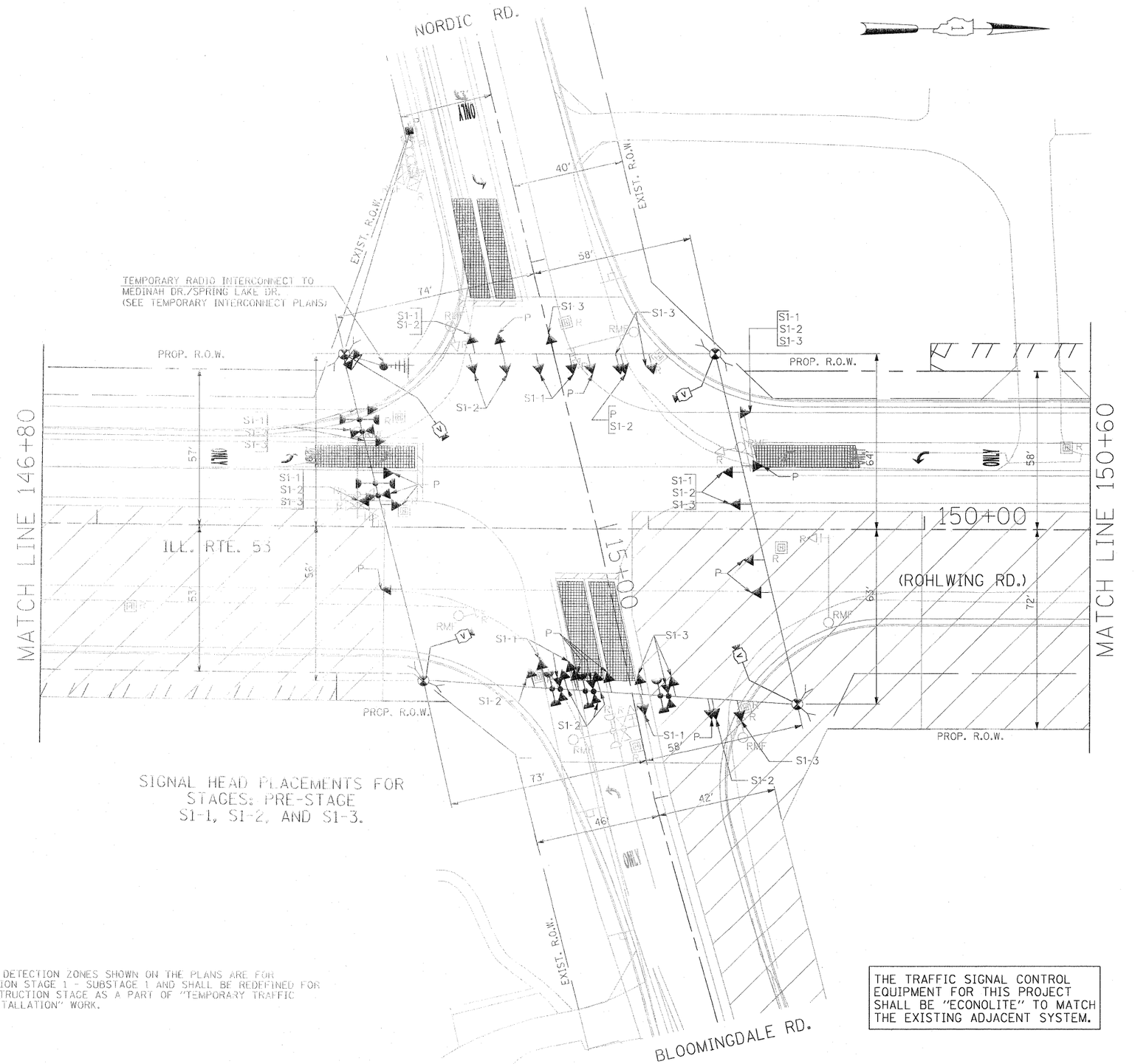
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

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.

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

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

THE CONTRACTOR SHALL RELOCAITE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & NORDIC RD. / BLOOMINGDALE RD.



SIGNAL HEAD PLACEMENTS FOR STAGES: PRE-STAGE S1-1, S1-2, AND S1-3.

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

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

⚠ Rev. 6-8-11

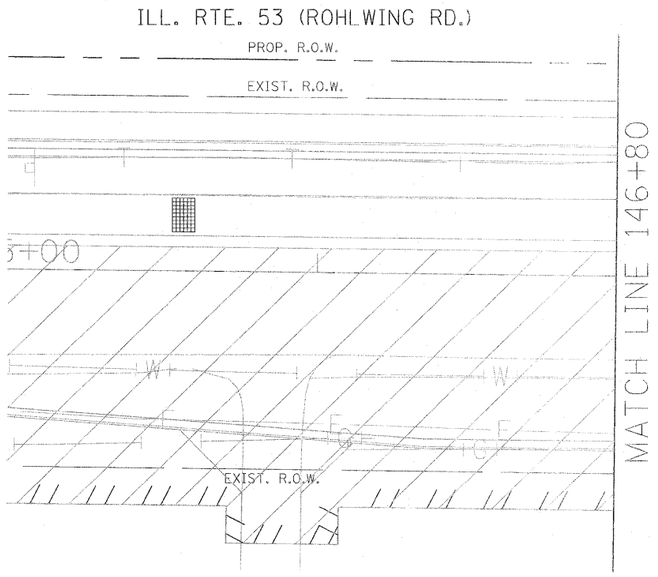
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

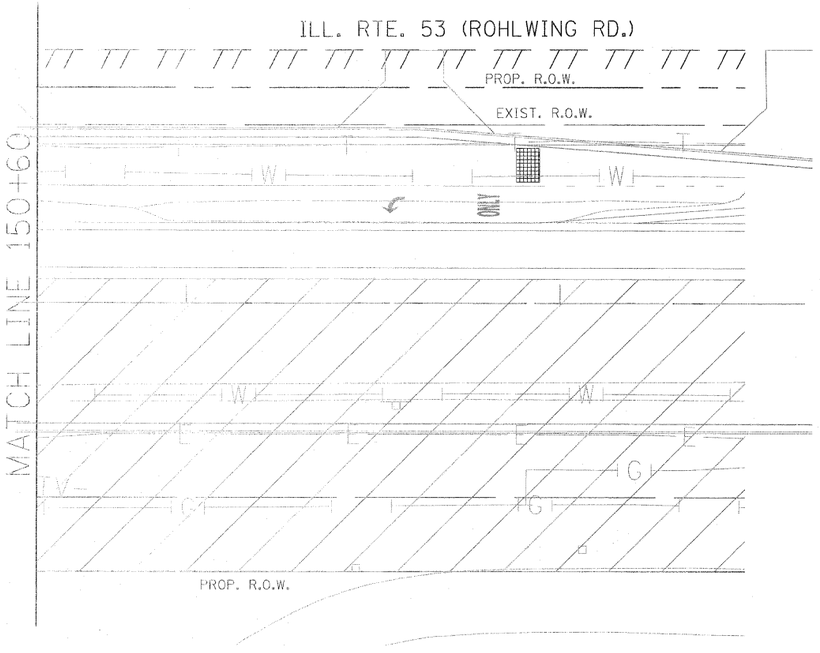
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORDIC RD./BLOOMINGDALE RD. PRE STAGE AND STAGE 1 (SHEET 1 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	466
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

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

Δ Rev. 6-8-11

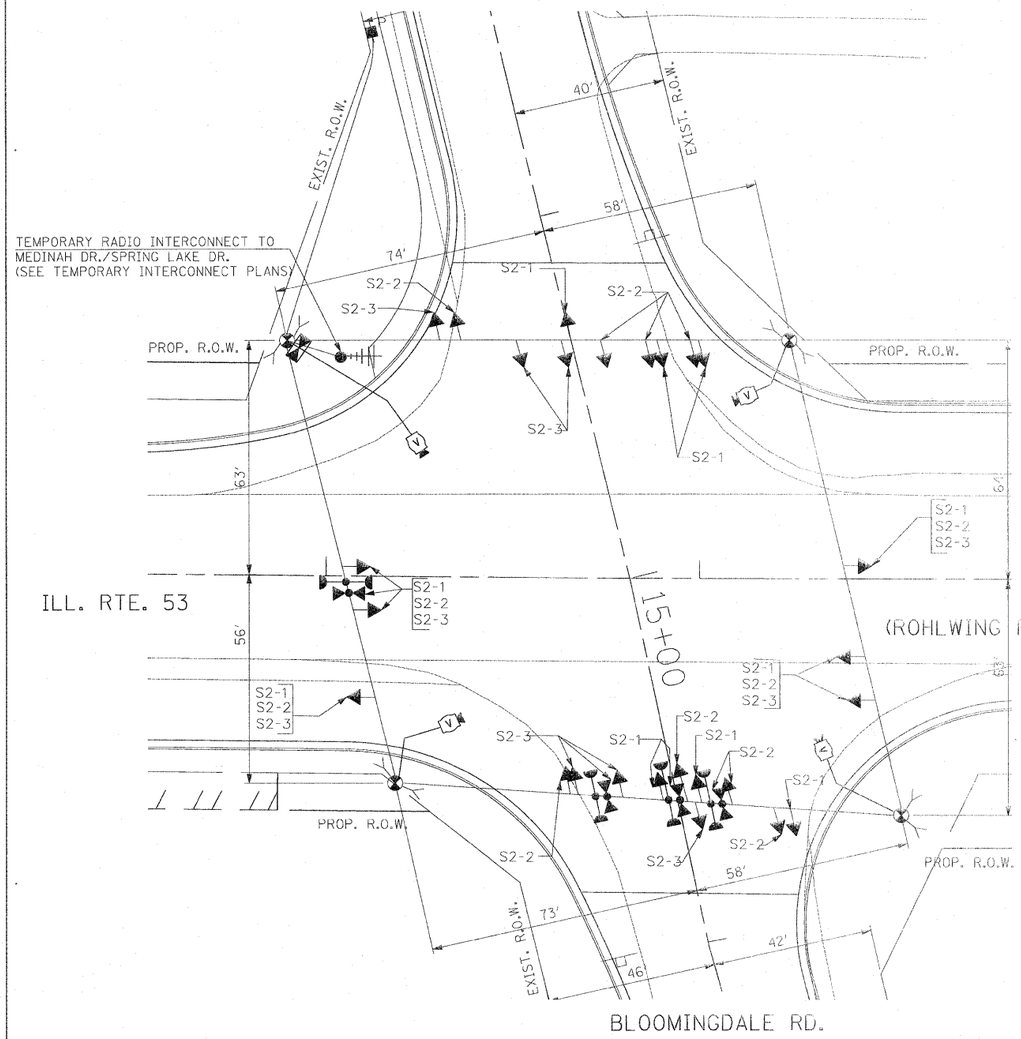
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORDIC RD./BLOOMINGDALE RD. PRE STAGE AND STAGE 1 (SHEET 2 OF 4)

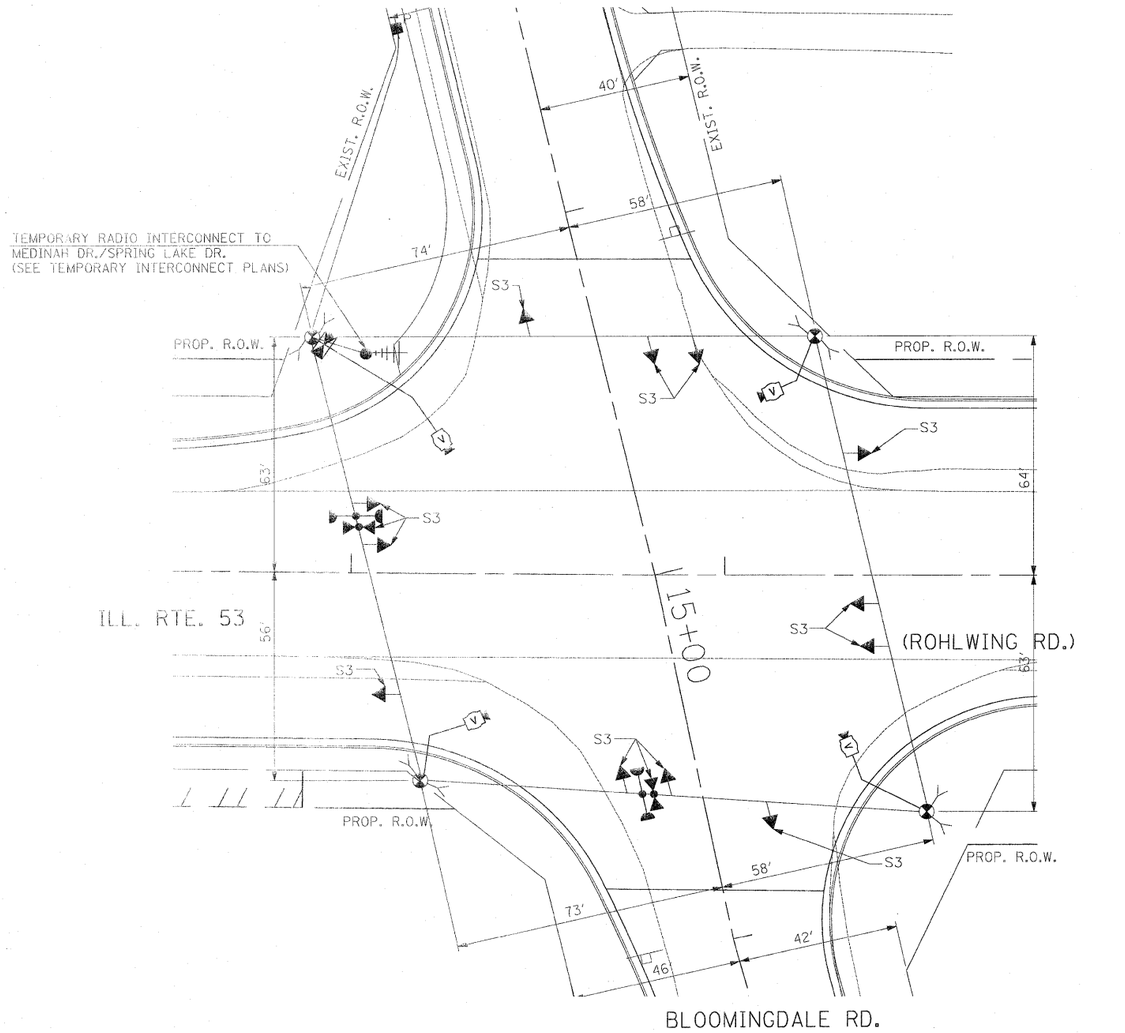
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	467
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

SIGNAL HEAD PLACEMENTS FOR STAGES: S2-1, S2-2, AND S2-3.



NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

SIGNAL HEAD PLACEMENTS FOR STAGE: S3

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

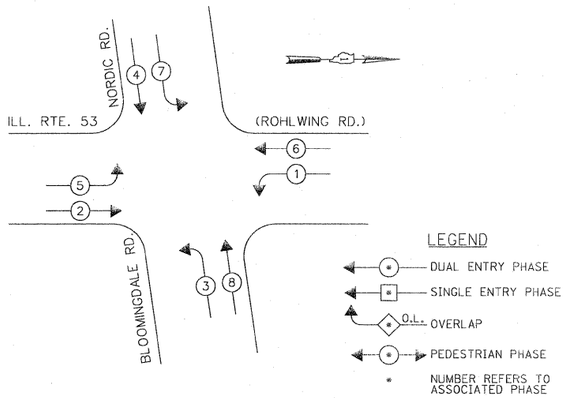
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORDIC RD./BLOOMINGDALE RD. STAGE 2 AND STAGE 3 (SHEET 3 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	468
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

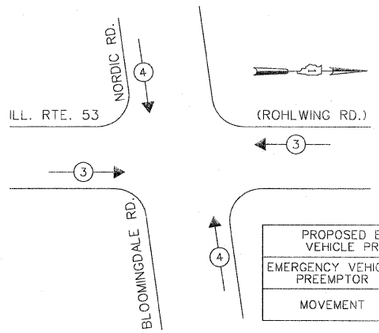
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

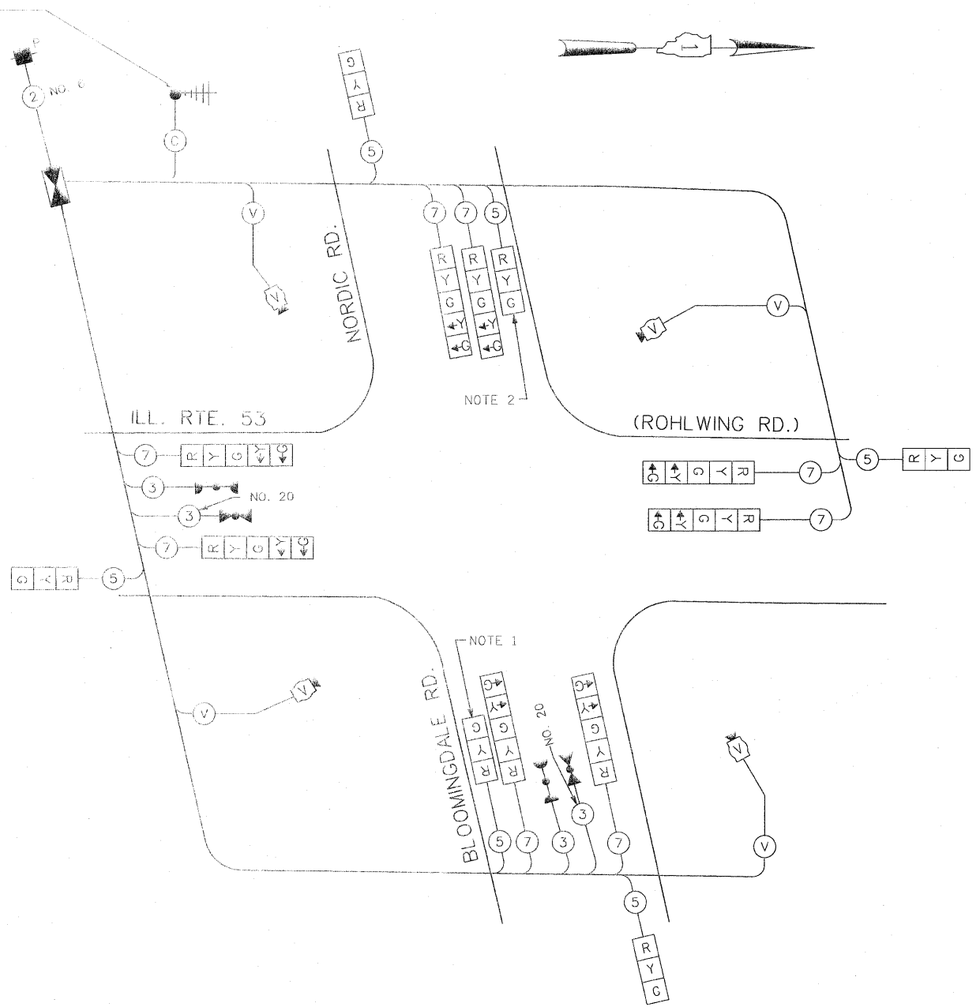
EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

TEMPORARY RADIO INTERCONNECT TO MEDINAH DR./SPRING LAKE DR. (SEE TEMPORARY INTERCONNECT PLANS)



TEMPORARY CABLE PLAN

(NOT TO SCALE)

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

NOTE 1: THE 3-SECTION SIGNAL HEAD MOUNTED ON THE FAR-SIDE SPAN WIRE FOR EASTBOUND DIRECTION OF TRAFFIC IS NEEDED DURING CONSTRUCTION STAGE S2-2. IN ALL OTHER STAGES THIS 3-SECTION SIGNAL HEAD SHALL BE DISCONNECTED AND BAGGED.

NOTE 2: THE 3-SECTION SIGNAL HEAD MOUNTED ON THE FAR-SIDE SPAN WIRE FOR WESTBOUND DIRECTION OF TRAFFIC IS NEEDED DURING CONSTRUCTION STAGE S1-2. IN ALL OTHER STAGES THIS 3-SECTION SIGNAL HEAD SHALL BE DISCONNECTED AND BAGGED.

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

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	16	135	12	0.10	19.2
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	528.2

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

Rev. 6-8-11

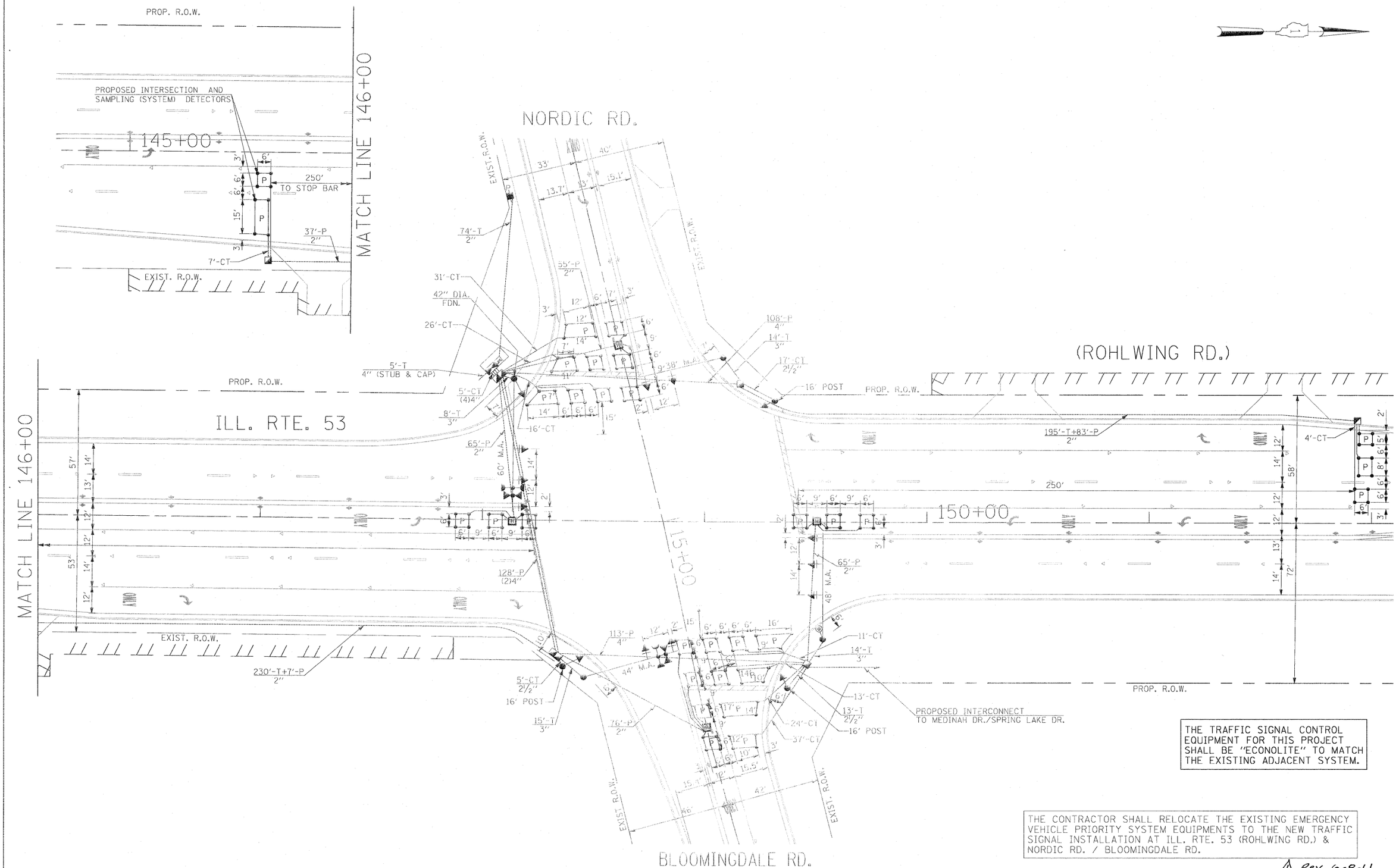
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORDIC RD./BLOOMINGDALE RD.
PRE-STAGE, STAGE 1, STAGE 2, AND STAGE 3 (SHEET 4 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	469
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & NORDIC RD. / BLOOMINGDALE RD.

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORDIC RD./BLOOMINGDALE RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	470
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
30	SQ FT	SIGN PANEL - TYPE 1
25	SQ FT	SIGN PANEL - TYPE 2
499	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
35	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
51	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
388	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
477	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
4	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
573	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1804	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1333	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1675	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2394	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
93	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLEY AND POLE, 38 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.
12	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
37	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
21	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
* 2	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1224	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
659	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 356	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF ITASCA

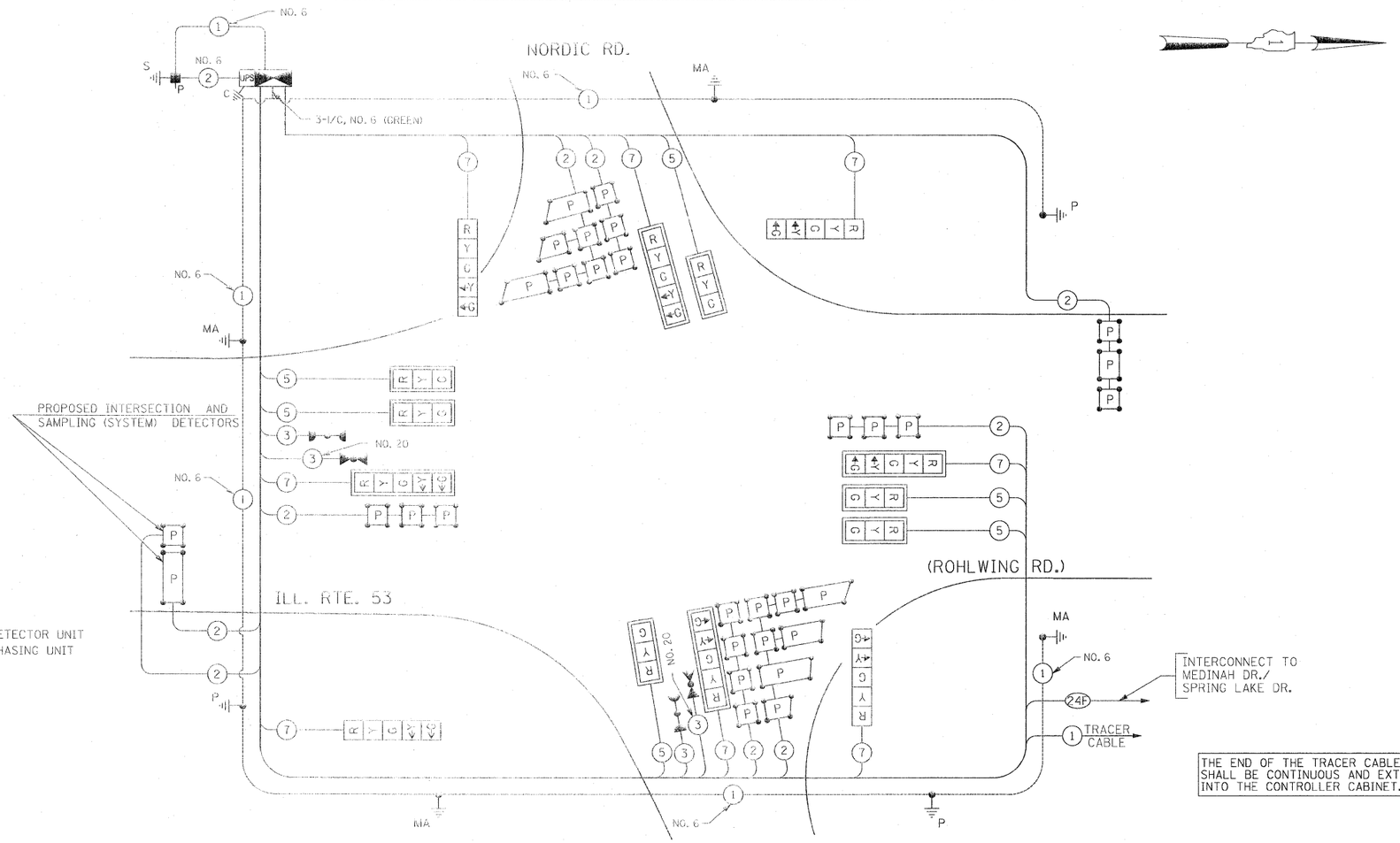
THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & NORDIC RD. / BLOOMINGDALE RD.

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	16	135	12	0.10	19.2
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	378.2

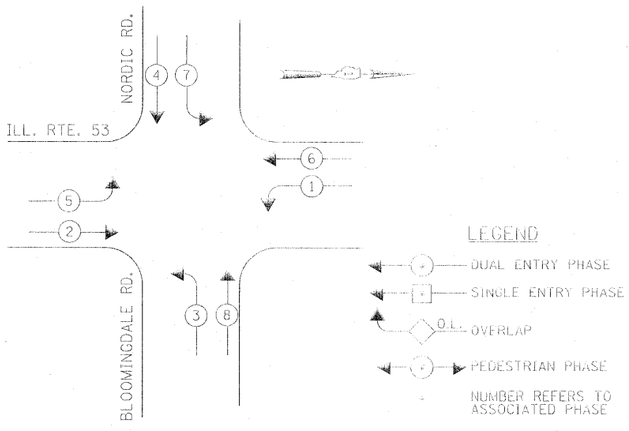
VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON



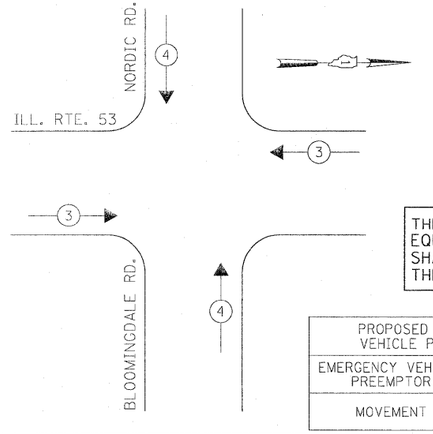
CABLE PLAN
(NOT TO SCALE)

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

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

Δ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
EMERGENCY VEHICLE PREEMPTION SEQUENCE
SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORDIC RD./BLOOMINGDALE RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	471
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

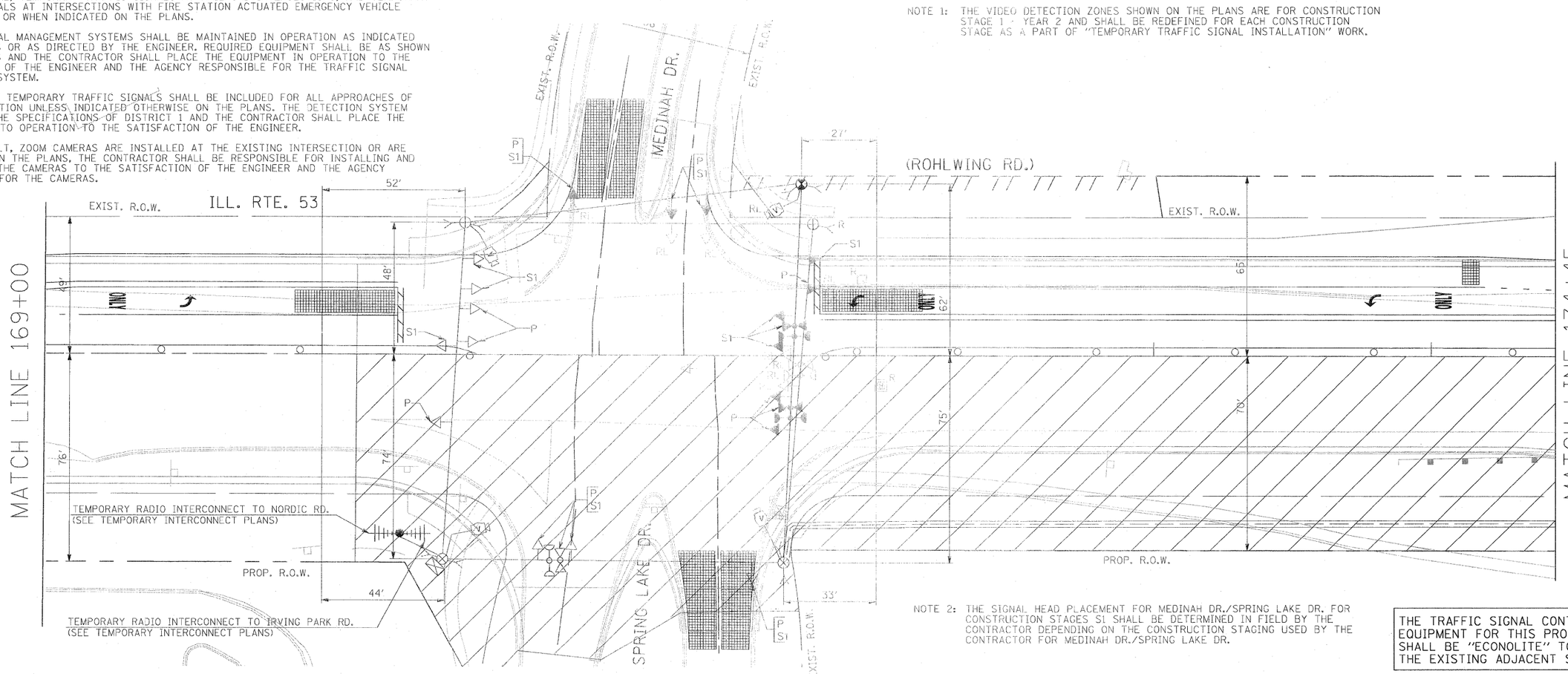
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & MEDINAH DR./SPRING LAKE DR.

FOR TEMPORARY TRAFFIC SIGNAL MODIFICATION, THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGH-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACOR'S BID PRICE.

1	EACH	WOOD POLE
245	FOOT	SPAN WIRE
245	FOOT	TETHER WIRE
1	LSUM	AERIAL ELECTRIC CABLES

NOTE 1: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - YEAR 2 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



NOTE 2: THE SIGNAL HEAD PLACEMENT FOR MEDINAH DR./SPRING LAKE DR. FOR CONSTRUCTION STAGES S1 SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR DEPENDING ON THE CONSTRUCTION STAGING USED BY THE CONTRACTOR FOR MEDINAH DR./SPRING LAKE DR.

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

Δ Rev. 6-8-11

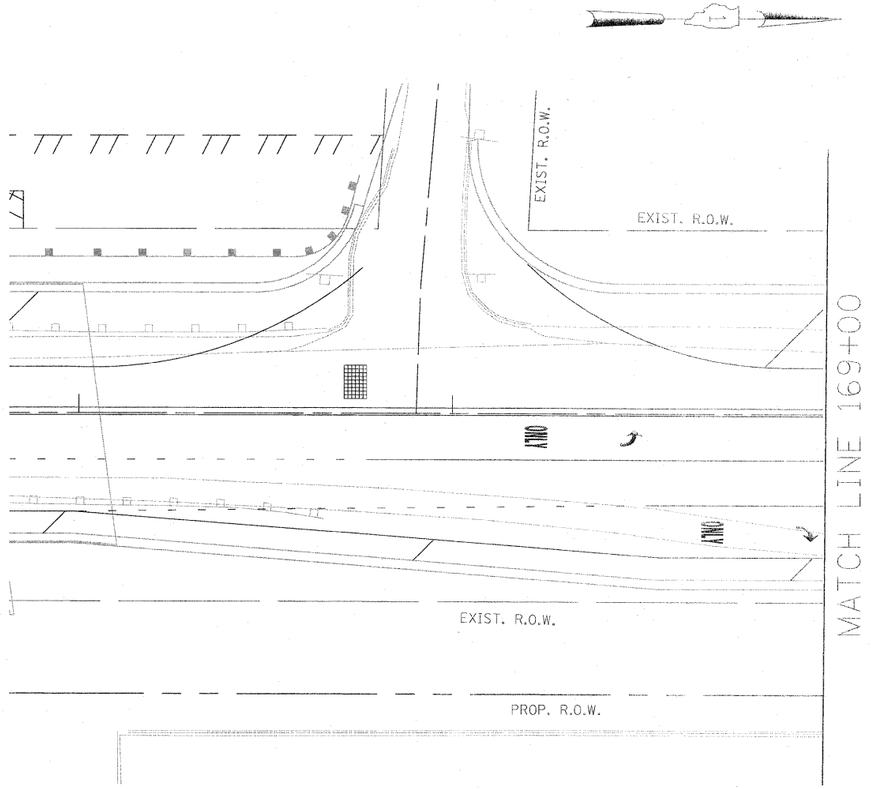
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

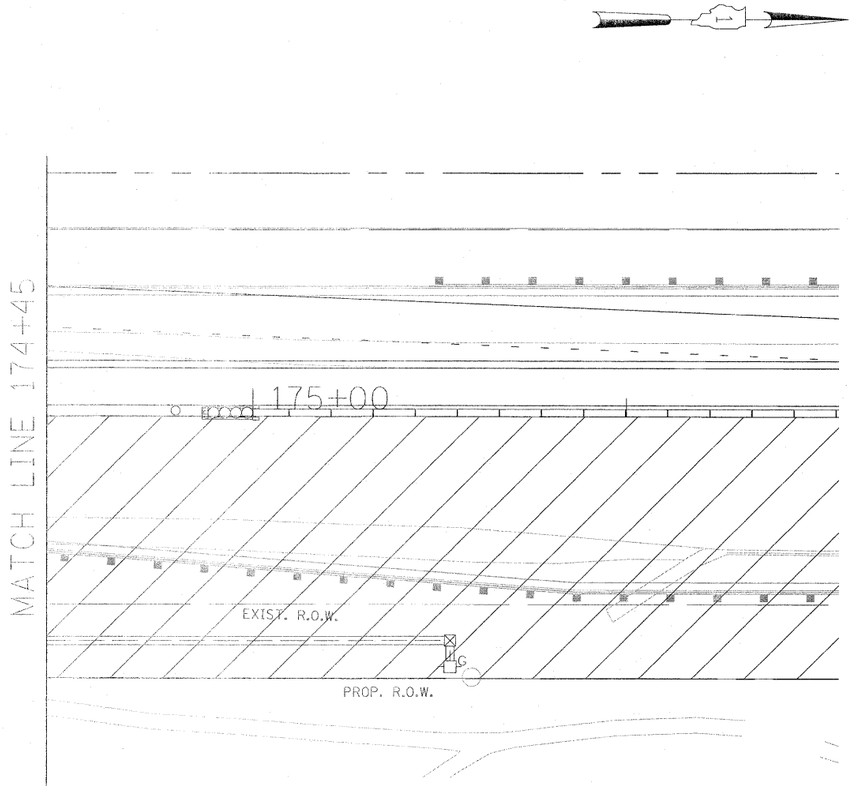
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TEMPORARY TRAFFIC SIGNAL, MODIFICATION PLAN, AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MEDINAH DR./SPRING LAKE DR.
PRE-STAGE AND STAGE 1 (SHEET 1 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	472
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





Rev. 6-8-11

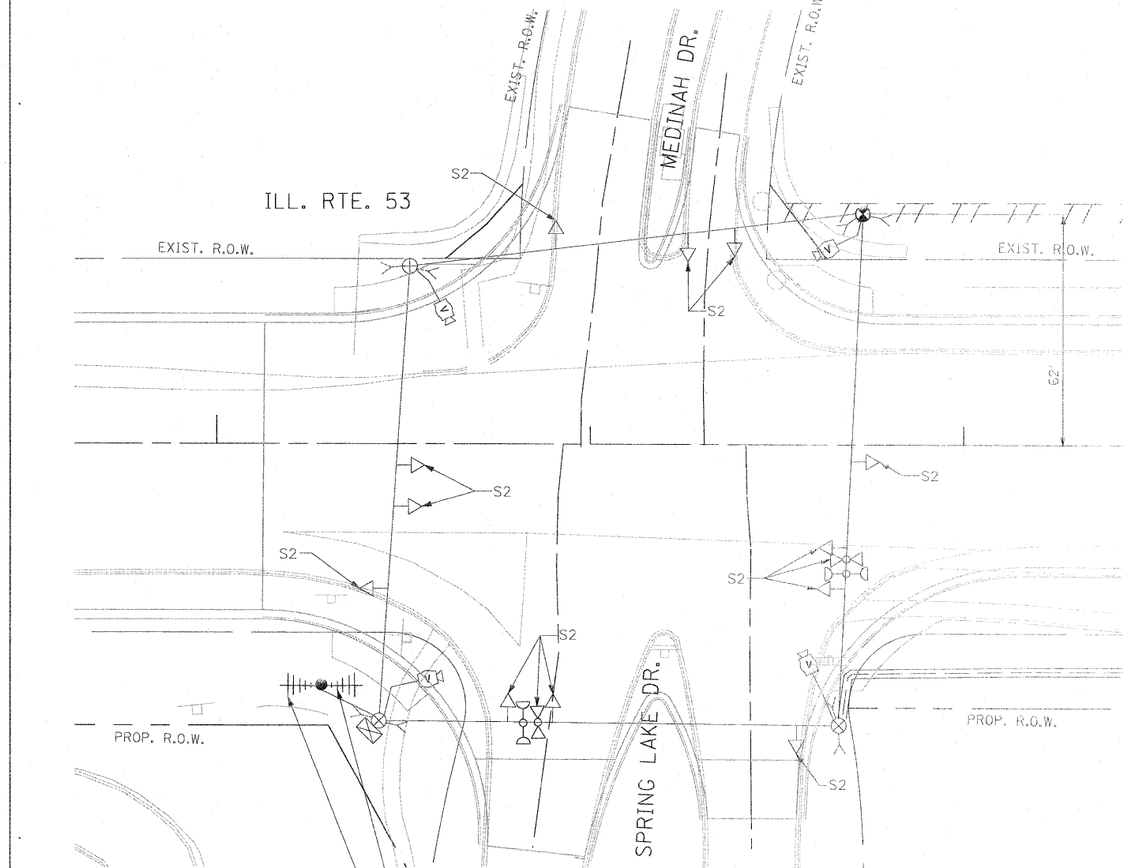
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TEMPORARY TRAFFIC SIGNAL, MODIFICATION PLAN, AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MEDINAH DR./SPRING LAKE DR.
PRE-STAGE AND STAGE 1 (SHEET 2 OF 4)

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

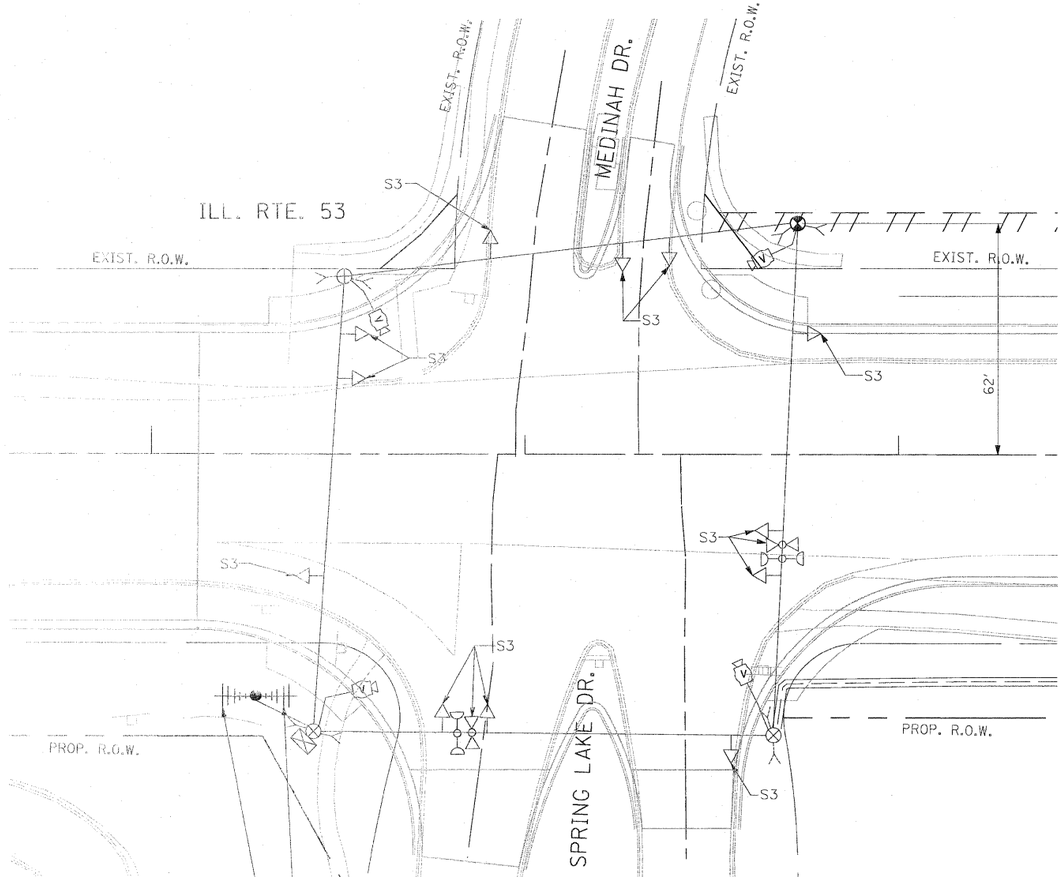
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	472A
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



TEMPORARY RADIO INTERCONNECT TO NORDIC RD.
(SEE TEMPORARY INTERCONNECT PLANS)

TEMPORARY RADIO INTERCONNECT TO IRVING PARK RD.
(SEE TEMPORARY INTERCONNECT PLANS)

SIGNAL HEAD PLACEMENTS FOR
STAGE: S2



TEMPORARY RADIO INTERCONNECT TO NORDIC RD.
(SEE TEMPORARY INTERCONNECT PLANS)

TEMPORARY RADIO INTERCONNECT TO IRVING PARK RD.
(SEE TEMPORARY INTERCONNECT PLANS)

SIGNAL HEAD PLACEMENTS FOR
STAGE: S3

NOTE 1: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - YEAR 2 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

NOTE 2: THE SIGNAL HEAD PLACEMENT FOR MEDINAH/SPRING LAKE DRIVE FOR CONSTRUCTION STAGES S2 AND S3 SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR DEPENDING ON THE CONSTRUCTION STAGING USED BY THE CONTRACTOR FOR MEDINAH/SPRING LAKE DRIVE.

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

Δ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

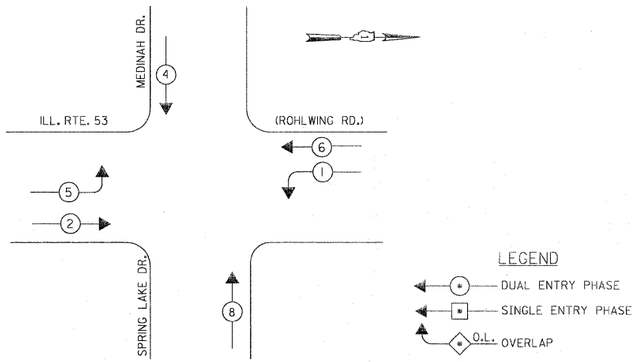
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL, MODIFICATION PLAN, AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MEDINAH DR./SPRING LAKE DR.
STAGE 2 AND STAGE 3 (SHEET 3 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	473
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE

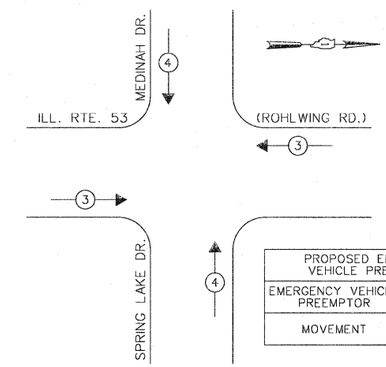


LEGEND
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

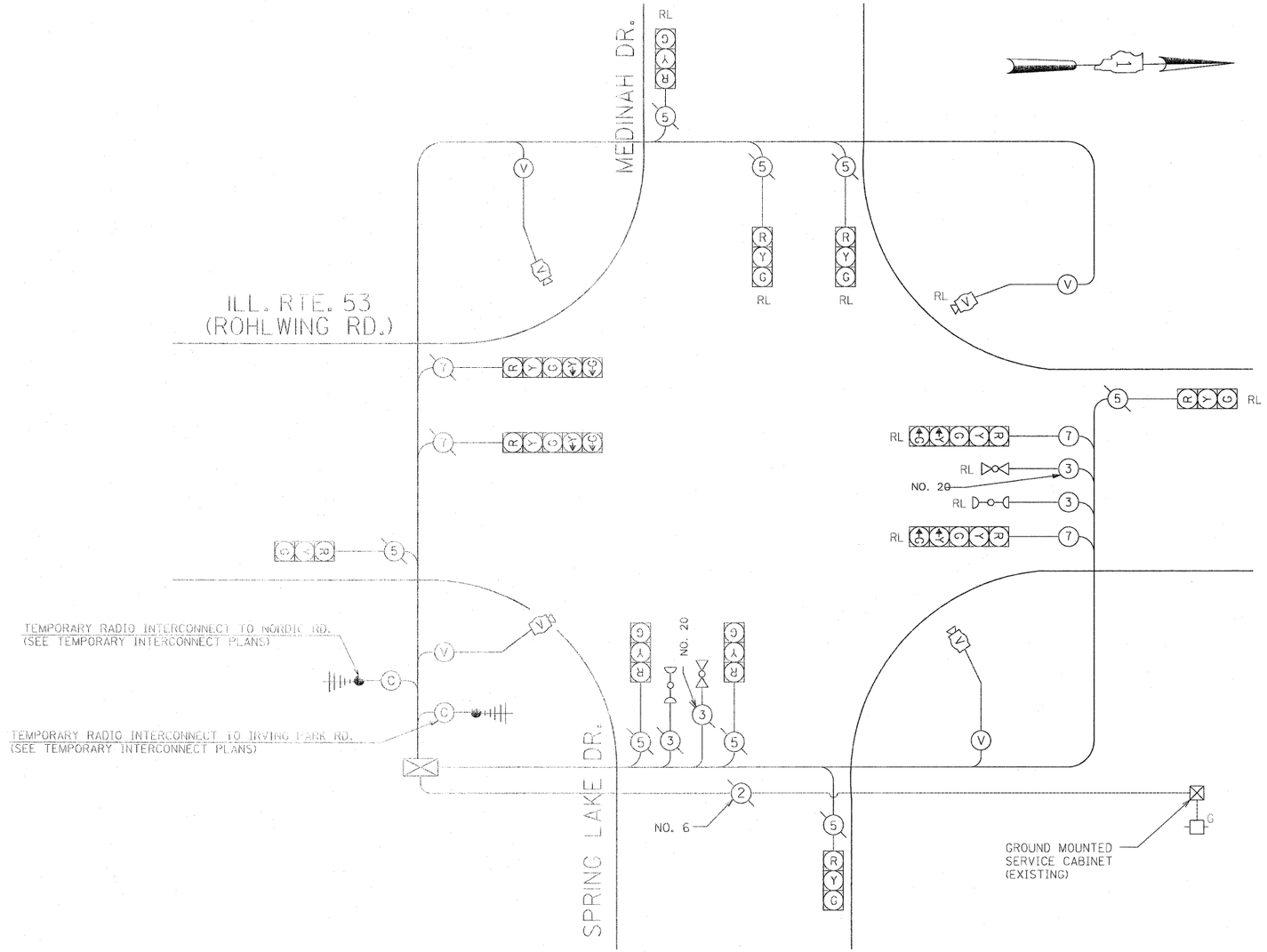
STAGES: PRE-STAGE, S1, S2, AND S3

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

STAGES: PRE-STAGE, S1, S2, AND S3



TEMPORARY 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)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.6
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	481.6

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

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

1 Rev. 6-8-11

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

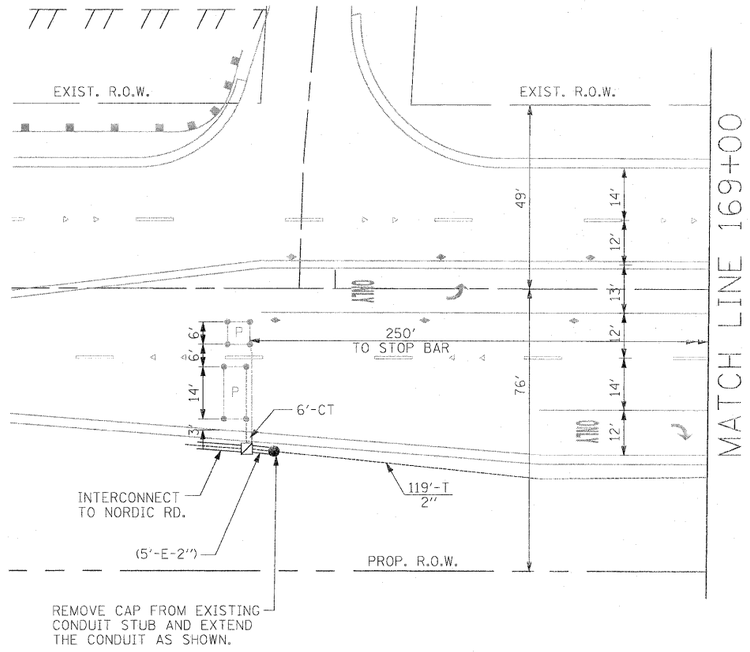
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

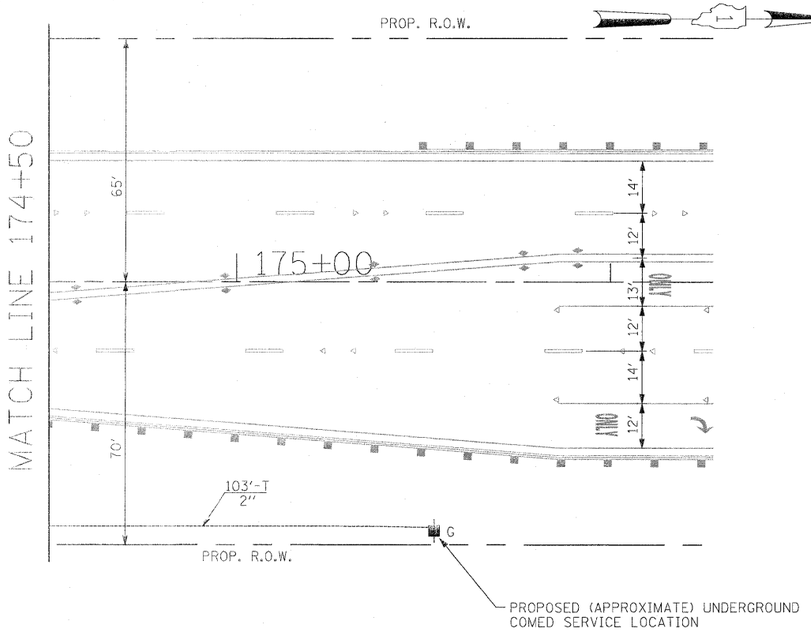
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MEDINAH DR. (SPRING LAKE DR.)
PRE STAGE, STAGE 1, STAGE 2, AND STAGE 3 (SHEET 4 OF 4)

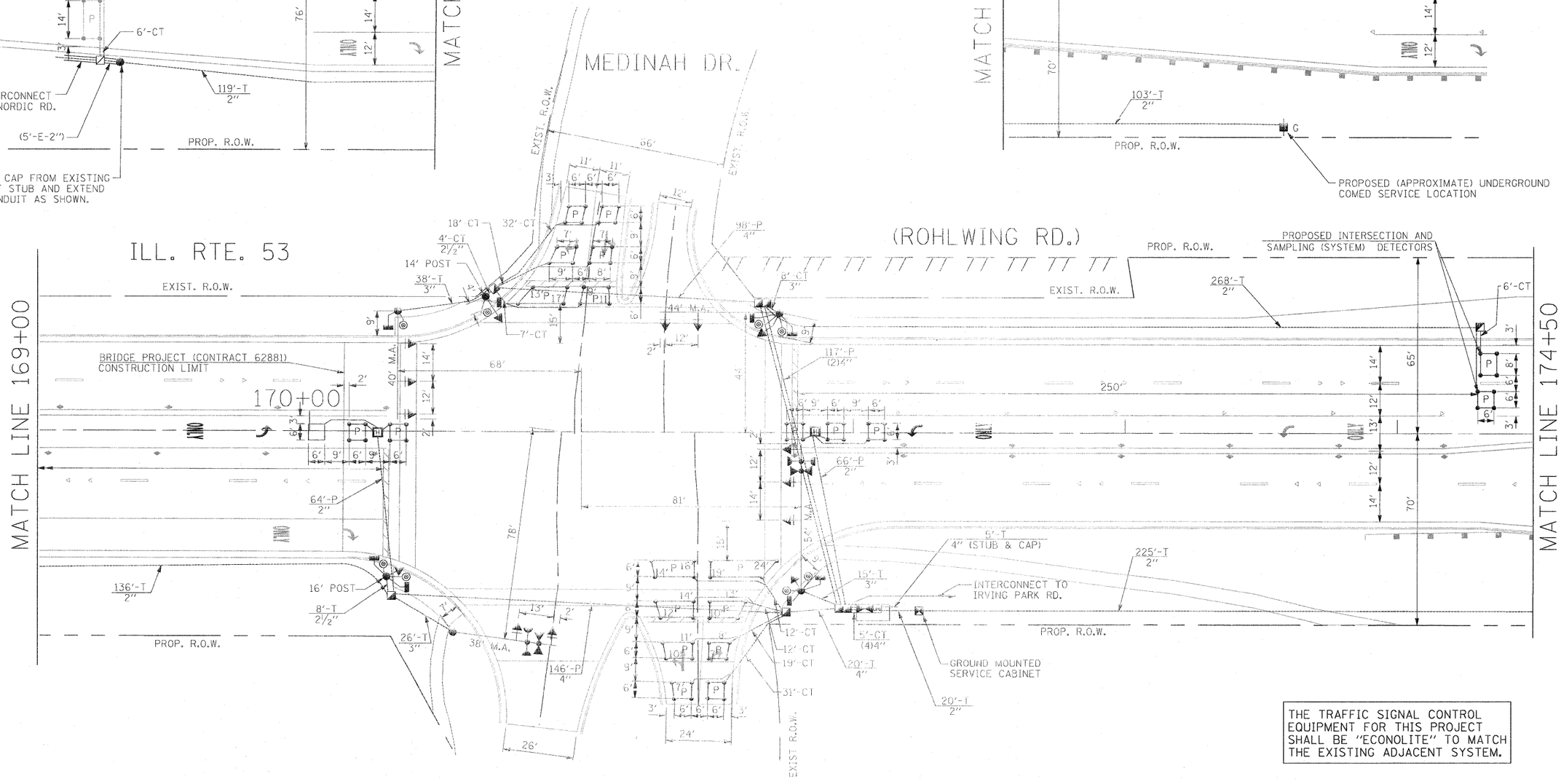
SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	474
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & MEDINAH DR./SPRING LAKE DR.







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

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MEDINAH DR./SPRING LAKE DR.

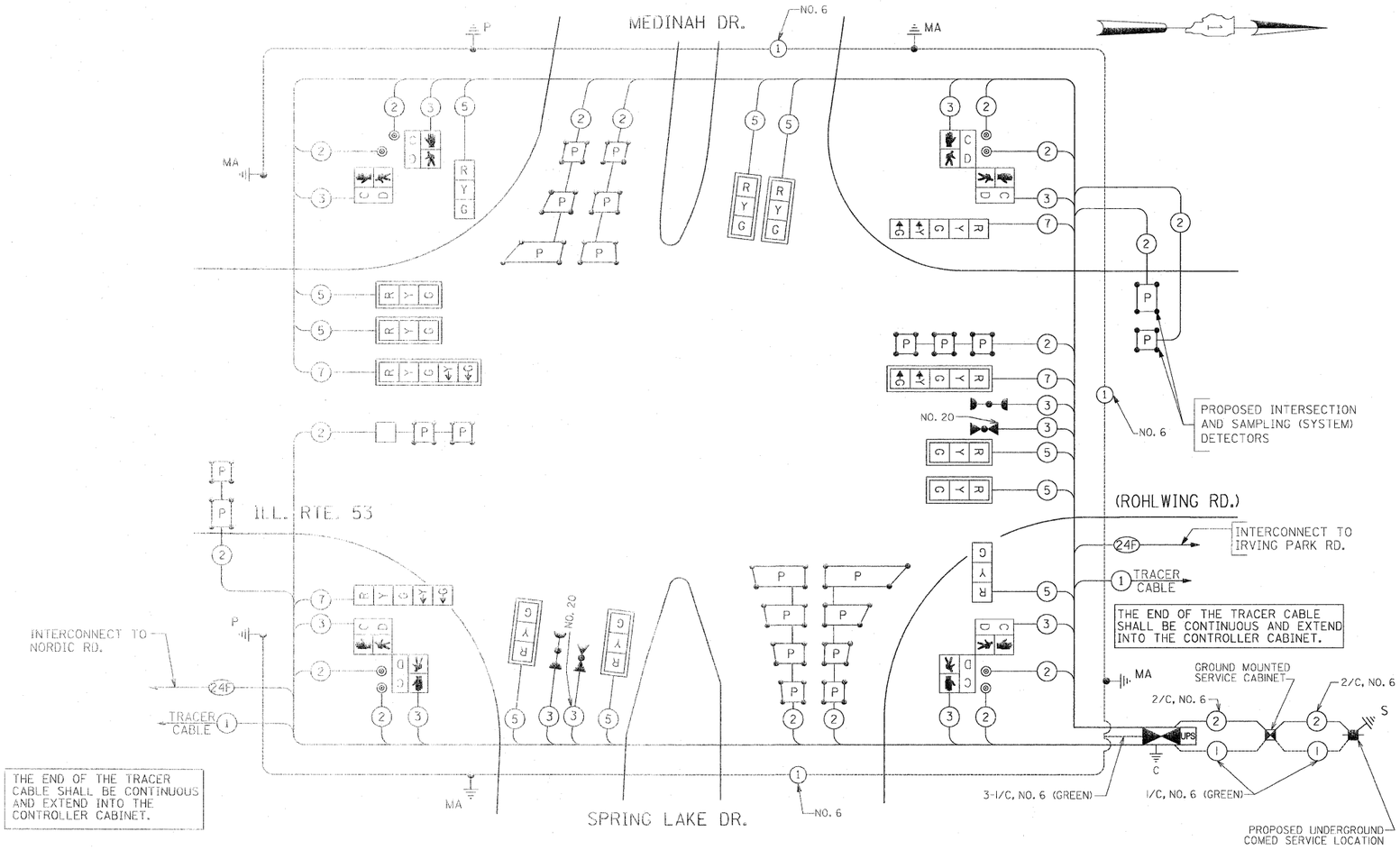
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	475
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
31.5	SQ FT	SIGN PANEL - TYPE 1
27.5	SQ FT	SIGN PANEL - TYPE 2
871	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
12	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
87	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
45	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
130	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
478	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
4	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
984	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1459	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1914	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2211	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
879	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2296	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
398	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.
8	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
52	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5 SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9	EACH	INDUCTIVE LOOP DETECTOR
44	FOOT	DETECTOR LOOP, TYPE 1
8	EACH	PEDESTRIAN PUSH-BUTTON
* 2	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
3	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATION
868	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - GROUND MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
1007	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 399	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
1	EACH	MODIFY TEMPORARY TRAFFIC SIGNAL INSTALLATION

* 100% COST TO VILLAGE OF ITASCA

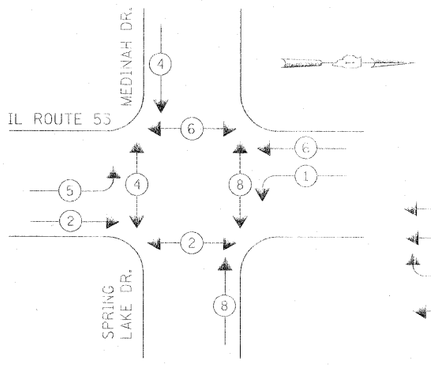


CABLE PLAN

(NOT TO SCALE)

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & MEDINAH DR./SPRING LAKE DR.

CONTROLLER SEQUENCE

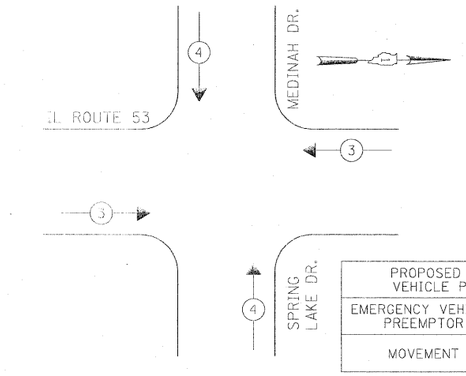


PHASE DESIGNATION DIAGRAM

LEGEND

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS X	WATTAGE INCAND.	WATTAGE LED	X %OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	568.6

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

Rev. 6-8-11

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUNTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT MEDINAH DR./SPRING LAKE DR.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	476
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

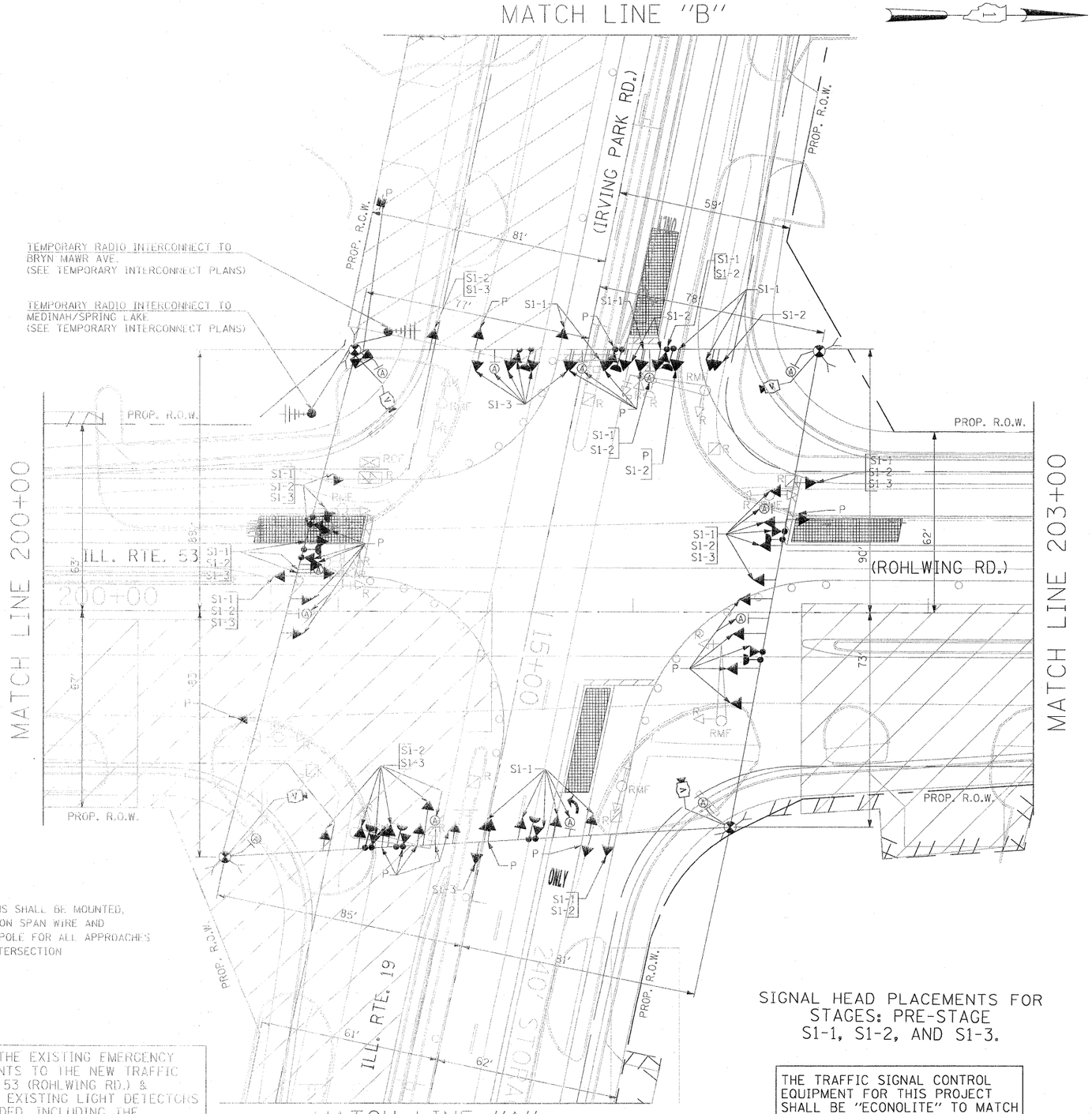
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

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.

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

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

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



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LEFT ON GREEN ARROW ONLY

R10-5, 24" X 30" (8 REQUIRED)

R10-5 SIGNS SHALL BE MOUNTED, ONE EACH ON SPAN WIRE AND FAR LEFT POLE FOR ALL APPROACHES OF THE INTERSECTION

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & ILL. RTE. 19 (IRVING PARK RD.) THE EXISTING LIGHT DETECTORS ARE SEPARATED AND SHALL BE DIVIDED, INCLUDING THE CONFIRMATION BEACONS, FOR MOUNTING AS PROPOSED IN THE PLANS FOR NEW SIGNAL PHASING.

SIGNAL HEAD PLACEMENTS FOR STAGES: PRE-STAGE S1-1, S1-2, AND S1-3.

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

Ⓐ Rev. 6-8-11

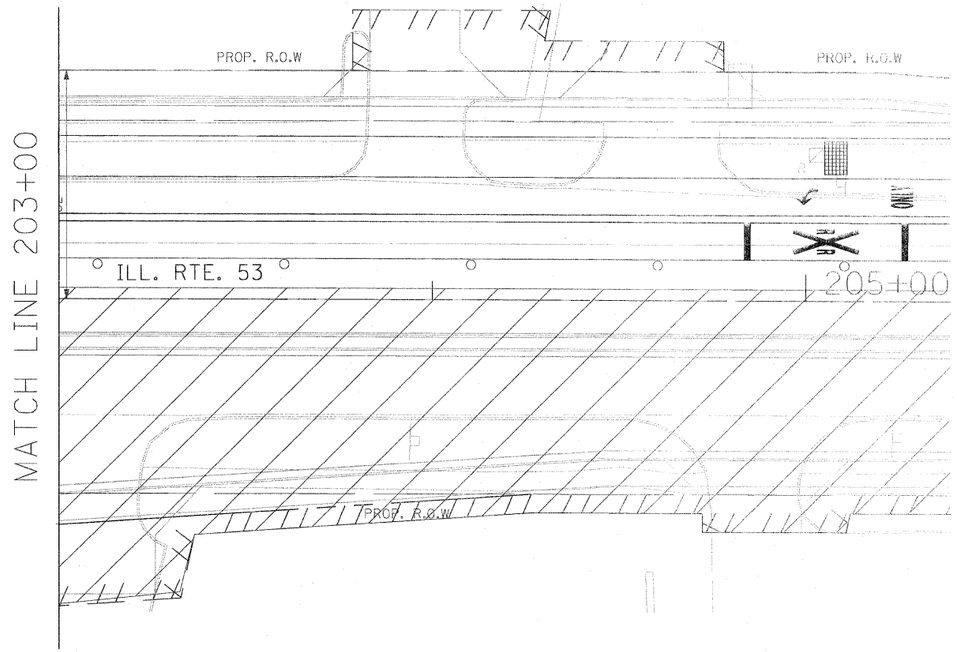
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

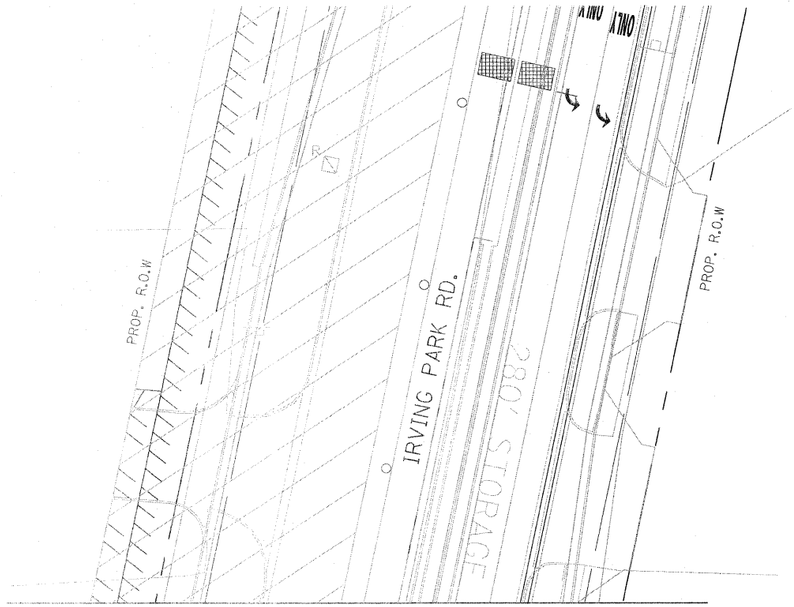
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ILL. RTE 19 (IRVING PARK RD.)
PRE STAGE AND STAGE 1 (SHEET 1 OF 5)

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

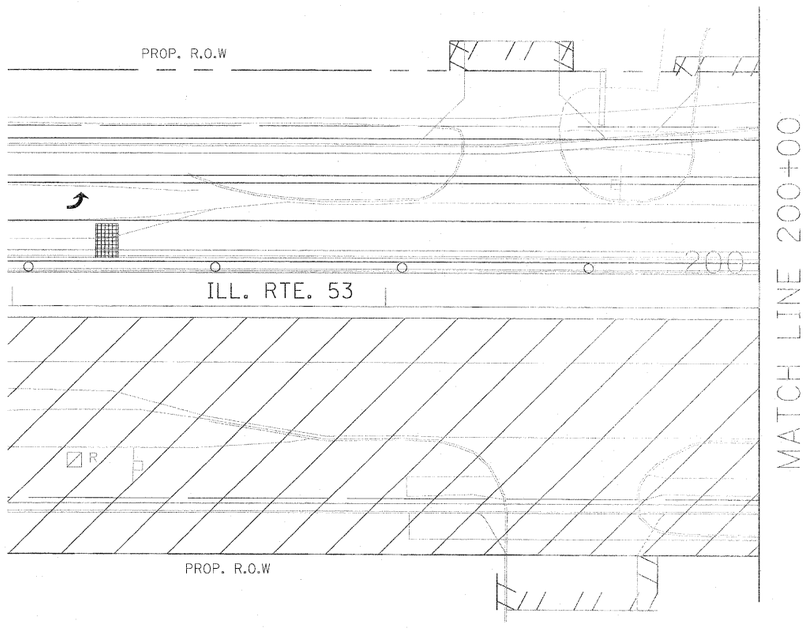
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	477
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



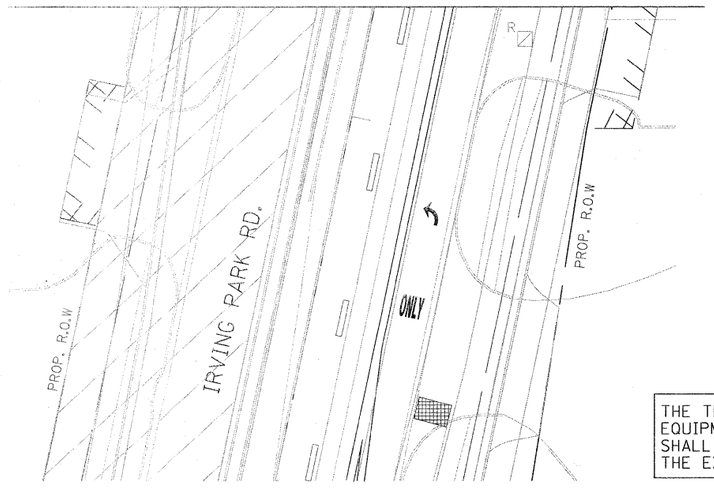


MATCH LINE "B"

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR PRE-CONSTRUCTION STAGE (EXISTING GEOMETRICS) AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



MATCH LINE "A"



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

⚠ Rev. 6-8-11

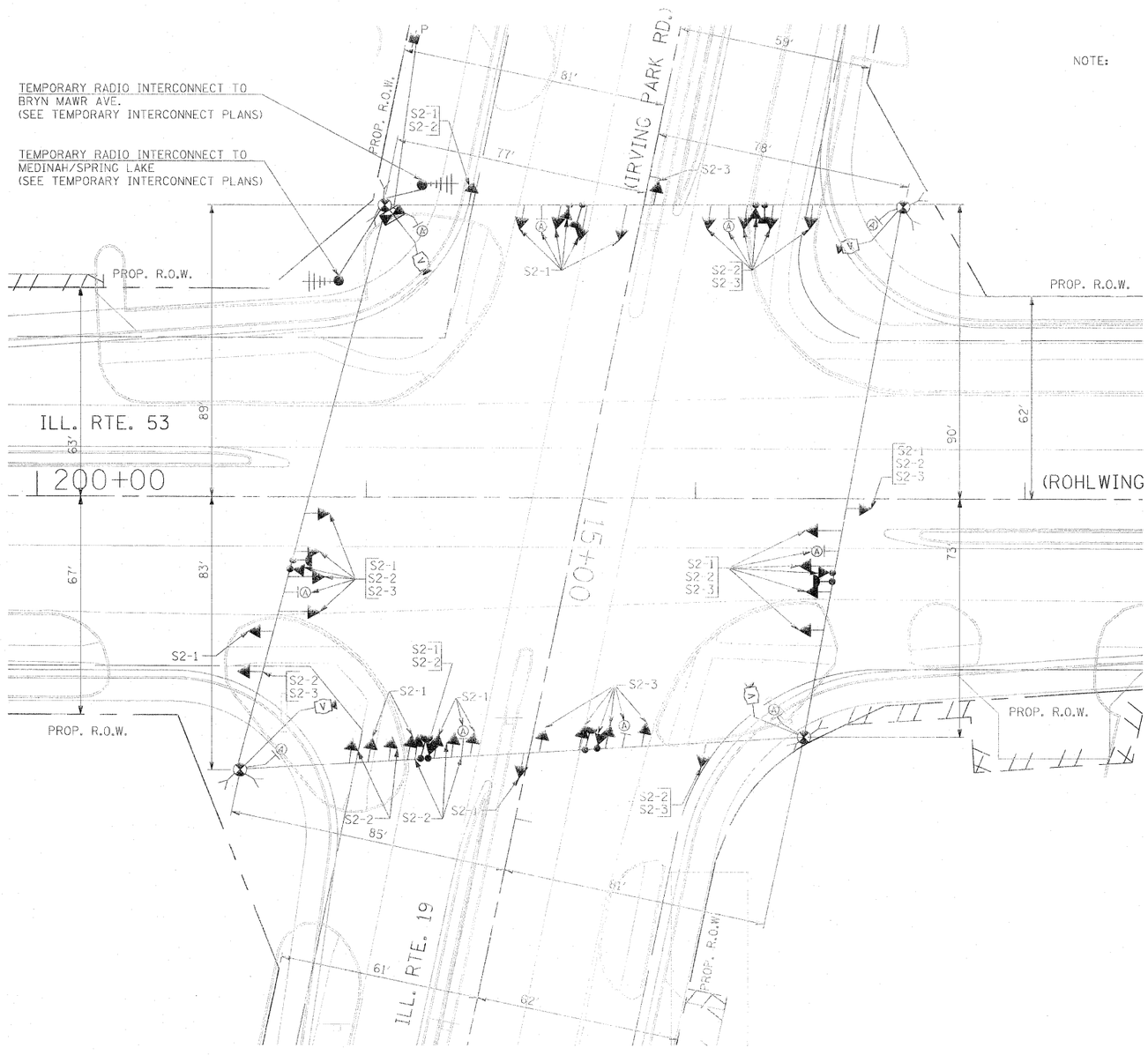
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ILL. RTE. 19 (IRVING PARK RD.)
PRE STAGE AND STAGE 1 (SHEET 2 OF 5)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	478
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



SIGNAL HEAD PLACEMENTS FOR
STAGES: S2-1, S2-2, AND S2-3.

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

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LEFT ON GREEN ARROW ONLY

R10-5,
24" X 30"
(8 REQUIRED)

R10-5 SIGNS SHALL BE MOUNTED, ONE EACH ON SPAN WIRE AND FAR LEFT POLE FOR ALL APPROACHES OF THE INTERSECTION

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

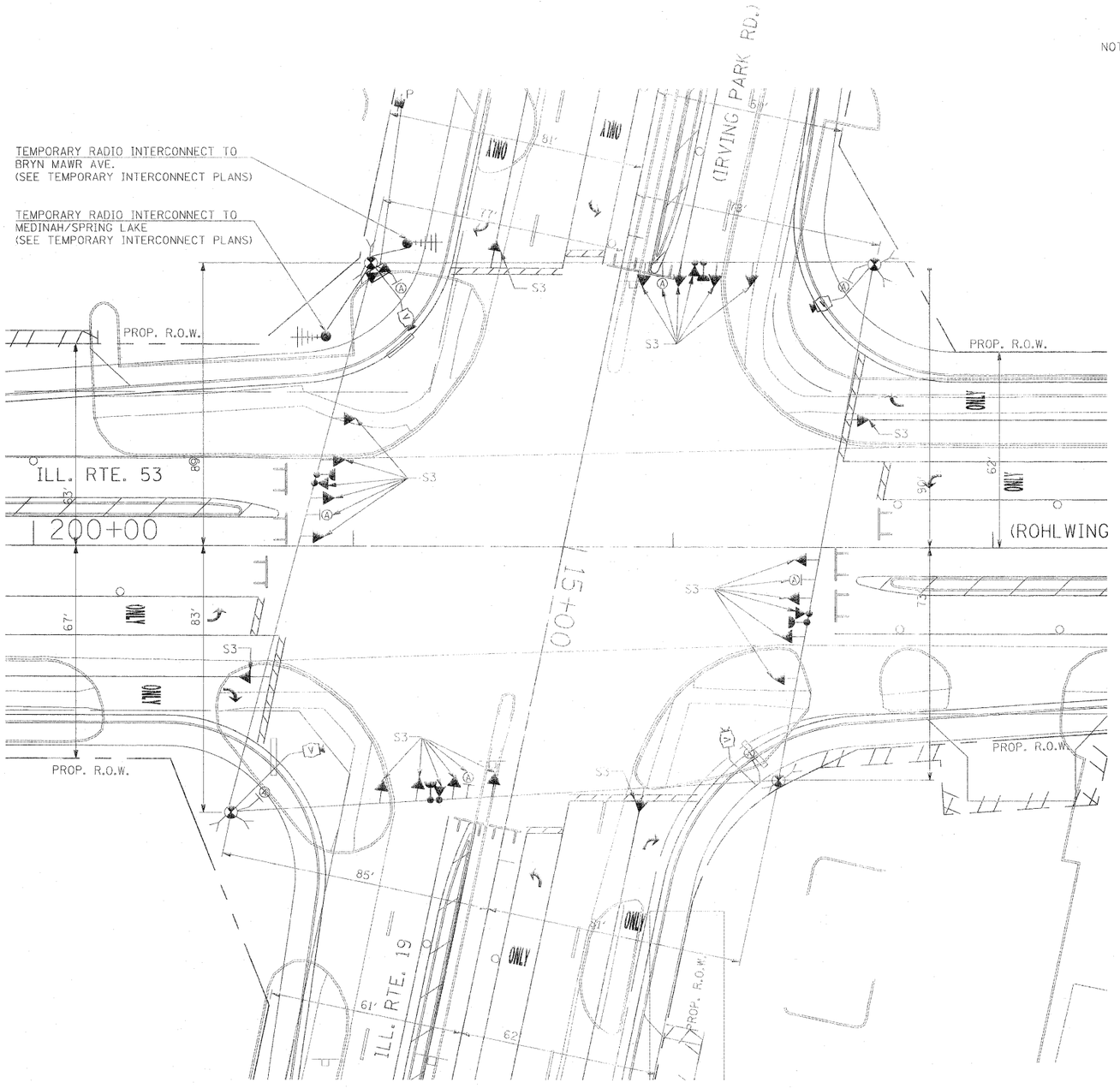
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ILL. RTE. 19 (IRVING PARK RD.)
STAGE 2 (SHEET 3 OF 5)

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

Δ Rev. 6-8-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	479
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



SIGNAL HEAD PLACEMENTS FOR STAGE S3

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LEFT ON GREEN ARROW ONLY

R10-5, 24" X 30" (8 REQUIRED)

R10-5 SIGNS SHALL BE MOUNTED, ONE EACH ON SPAN WIRE AND FAR LEFT POLE FOR ALL APPROACHES OF THE INTERSECTION

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

1 Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

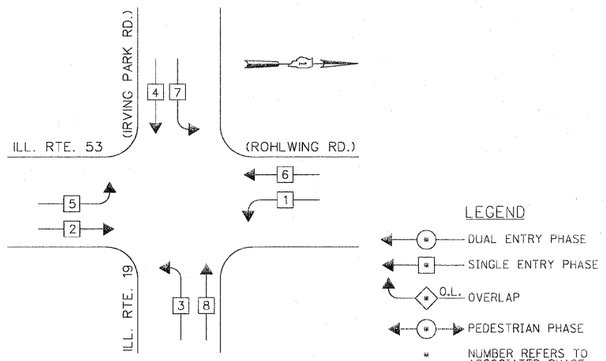
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ILL. RTE. 19 (IRVING PARK RD)
STAGE 3 (SHEET 4 OF 5)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	480
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



LEGEND

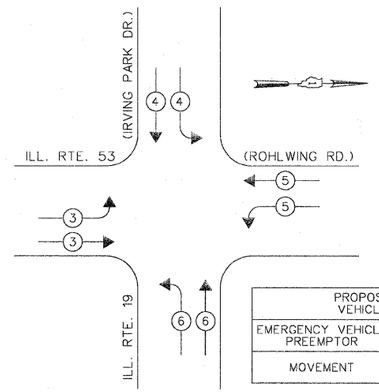
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. OVERLAP
- PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: PRE-STAGE, S1-1, S2-3, S3,
AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

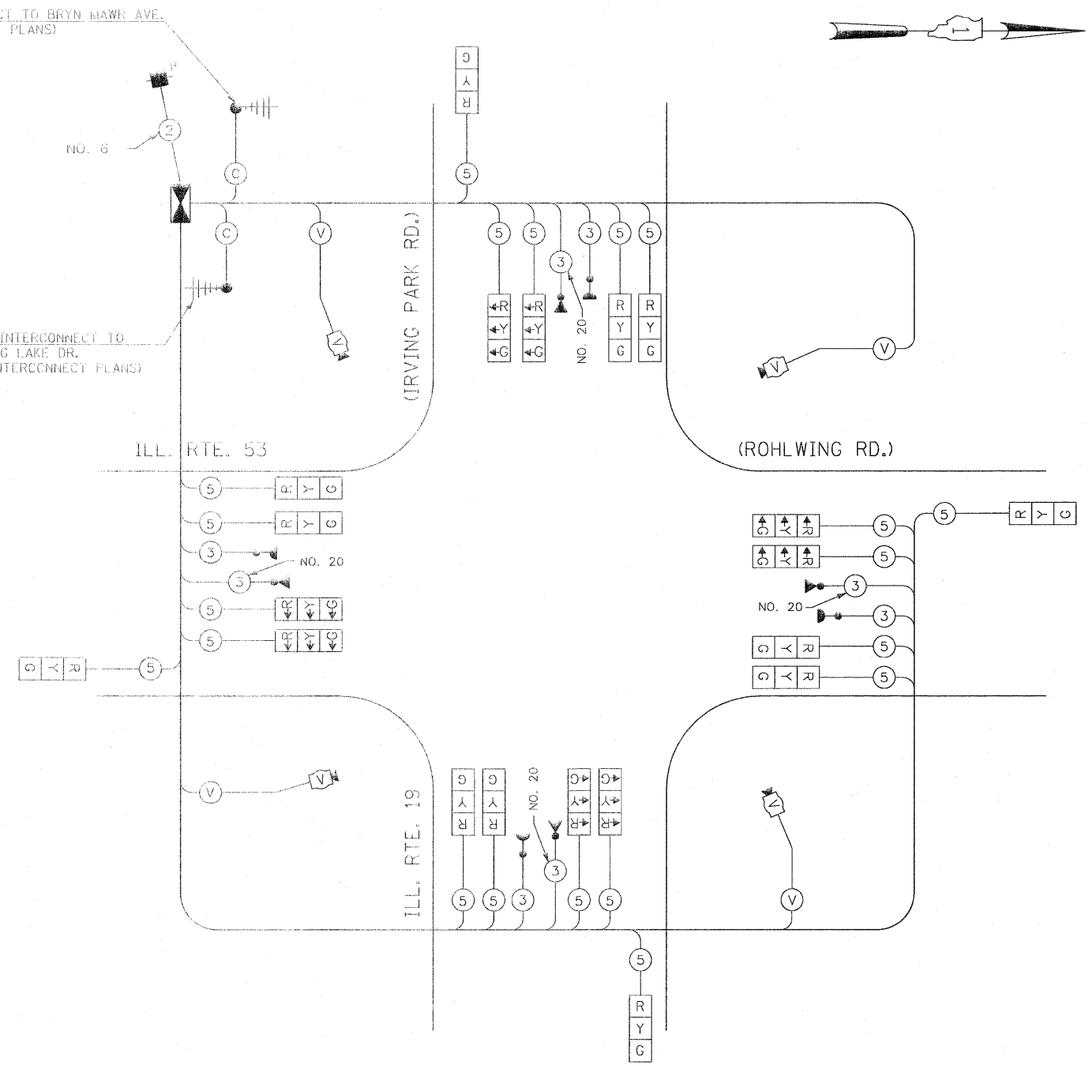
STAGES: PRE-STAGE, S1-1, S2-3, S3,
AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	620

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON



TEMPORARY CABLE PLAN

(NOT TO SCALE)

STAGES: PRE-STAGE, S1-1, S1-2, S1-3,
S2-1, S2-2, S2-3, S3, AND
AFTER PROPOSED ROADWAY GEOMETRICS
ARE BUILT

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

1 Rev. 6-8-11

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

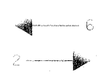
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ILL. RTE. 19 (IRVING PARK RD.) PRE-STAGE, STAGE 1,
STAGE 2, STAGE 3 AS NOTED AND AFTER PROPOSED ROADWAY GEOMETRICS ARE BUILT (SHEET 5 OF 5)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	481
		CONTRACT NO. 60477		

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

TEMPORARY SEQUENCE OF OPERATION (FOR STAGE 1, SUB STAGES 2,3 AND STAGE 2, SUB STAGES 1,2 WITH LEAD-LAG OPERATION FOR ILL. RTE. 19 AND ILL. RTE. 53)

MOVEMENT																																						FLASH
PHASE		2+5					2+6							1+6					4+7					4+8							3+8						
INTERVAL		1	2A	2B	3A	3B	4	5A	5B	6A	6B	7A	7B	8	9A	9B	10A	10B	11	12A	12B	13A	13B	14	15A	15B	16A	16B	17A	17B	18	19A	19B	20A	20B			
CHANGE TO			1+6 3+8 4+7 4+8		2+6			1+6		2+5		3+8 4+7 4+8			2+5 3+8 4+7 4+8		2+6			1+6 2+5 2+6 3+8		4+8		4+7		3+8		1+6 2+5 2+6			1+6 2+5 2+6 4+7		4+8				
ILLINOIS ROUTE 19 (IRVING PARK ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	G	Y	R	Y	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 19 (IRVING PARK ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	E/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄Y	◄R	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ILLINOIS ROUTE 19 (IRVING PARK ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	Y	R	G	Y	R	G	G	R		
ILLINOIS ROUTE 19 (IRVING PARK ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	W/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄Y	◄R	◄Y	◄R	◄R		
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	N/B	G	Y	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	N/B	◄G	◄Y	◄R	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	S/B	R	R	R	R	R	G	G	G	Y	R	Y	R	G	Y	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	S/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄Y	◄R	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R

PHASE 2 + 6 SHALL BE PLACED ON RECALL.

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

⚠ Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY SEQUENCE OF OPERATION ILL. RTE. 53 (ROHLWING RD.) AT ILL. RTE. 19 (IRVING PARK RD.) STAGE 1 – SUB STAGES 2, 3 AND STAGE 2 – SUB STAGES 1, 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MAA, EA	REVISED -			2578	532B	DuPage	781	482
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -					CONTRACT NO. 60477		
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION (FOR STAGE 1, SUB STAGES 2, 3 AND STAGE 2, SUB STAGES 1, 2 WITH LEAD-LAG OPERATION FOR ILL. RTE. 19 AND ILL. RTE. 53)

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	1		4		4		4		8		8	11		11	14		14		14		18		18	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	2	3	4	5	
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2	1C	3,4,5	1E	2	1G	3,5	1J	4	1L	2,3,5	4	1P	2,4,5	3	1S	2,4	1U	3	1W	5	1Y	2,3,4	5					
ILLINOIS ROUTE 19 (IRVING PARK ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	Y	R	G	G	Y	R	R	R	R	R	G	R	R	◊
ILLINOIS ROUTE 19 (IRVING PARK ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	E/B	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂Y	◂R	◂G	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂G	◂R	◂R	◊
ILLINOIS ROUTE 19 (IRVING PARK ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	G	G	Y	R	G	R	R	R	G	◊
ILLINOIS ROUTE 19 (IRVING PARK ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	W/B	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂Y	◂R	◂G	◂R	◂R	◂R	◂G	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	N/B	G	Y	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	R	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	N/B	◂G	◂Y	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂G	◂R	◂R	◂R	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	S/B	R	R	R	Y	R	Y	R	G	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
ILLINOIS ROUTE 53 (ROHLWING ROAD) TWO FAR LEFT SPAN WIRE SIGNALS WITH LEFT TURN ARROWS	S/B	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂Y	◂R	◂G	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂R	◂G	◂R	◊

◊ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4, OR 5 IS TERMINATED.

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

⚠ Rev. 6-8-11

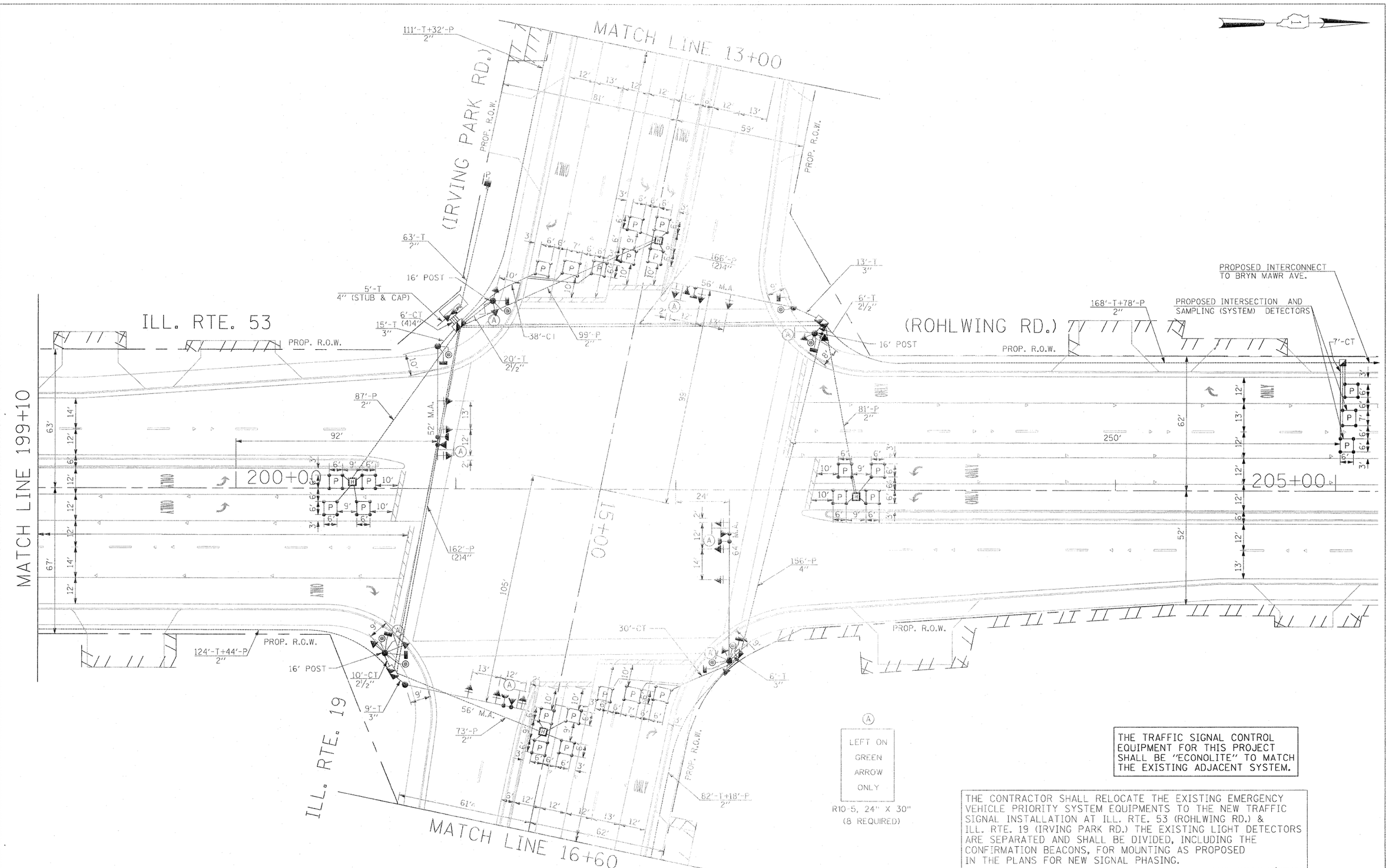
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
ILL RTE. 53 (ROHLWING RD.) AT ILL. RTE. 19 (IRVING PARK RD.)
STAGE 1 – SUB STAGES 2, 3 AND STAGE 2 – SUB STAGE 1, 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	483
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



Rev. 6-8-11

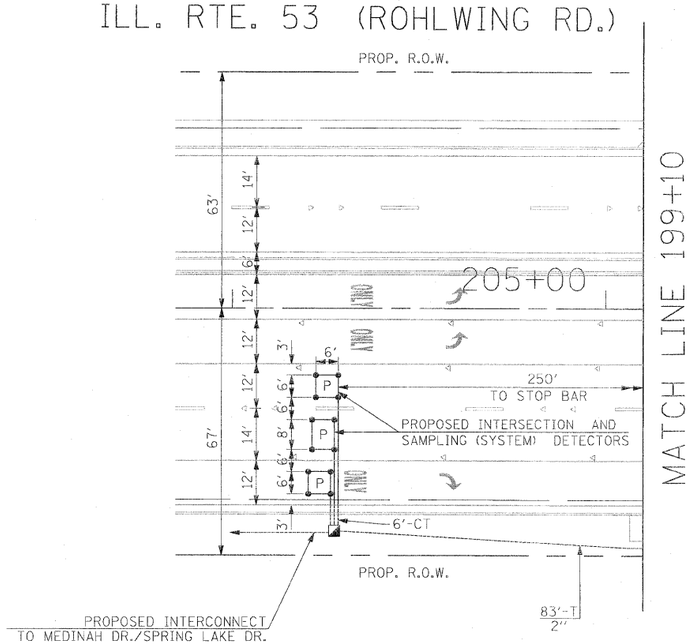
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

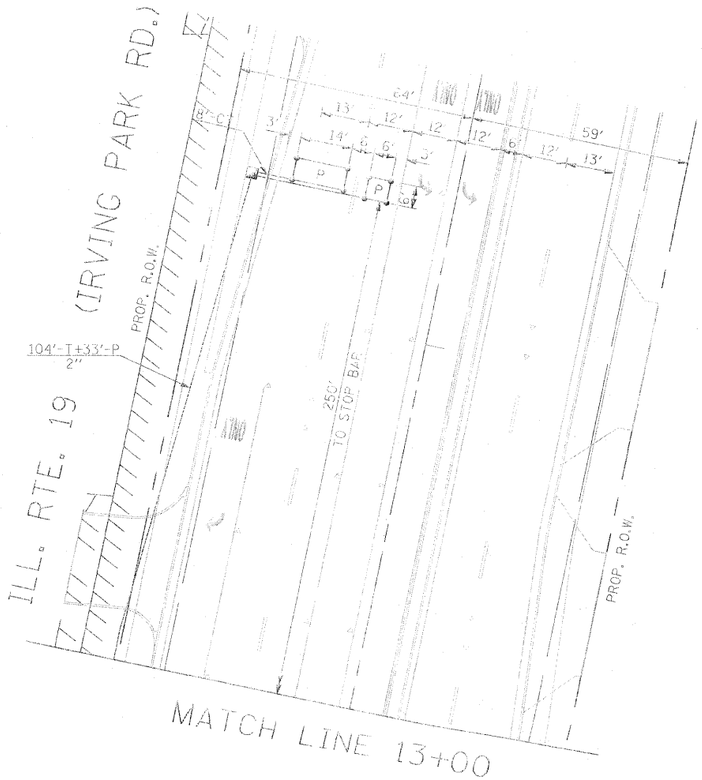
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

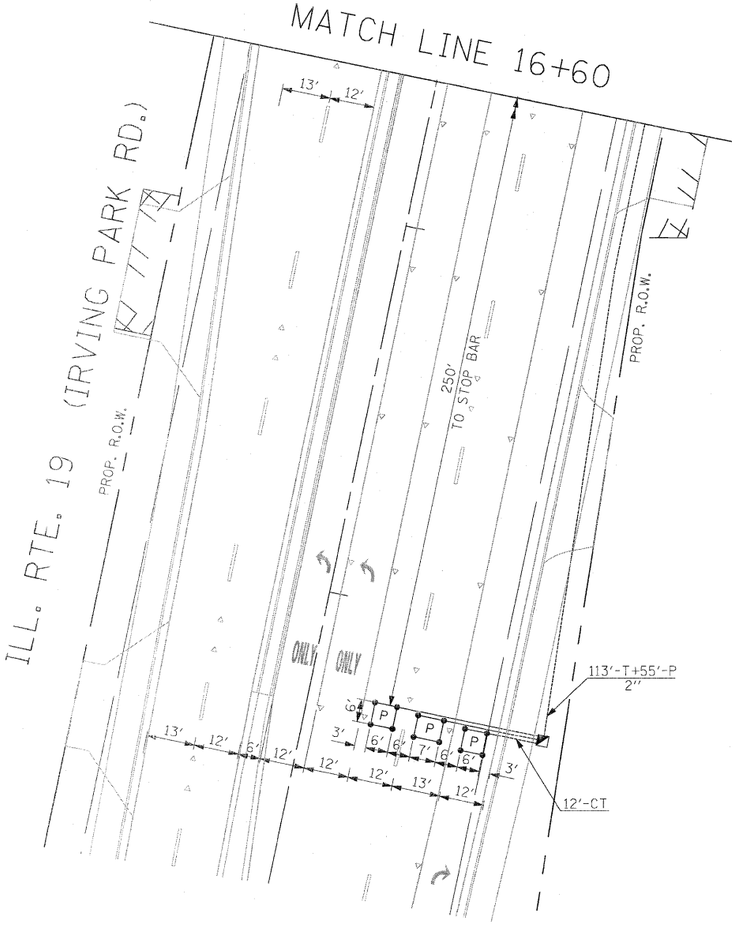
TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ILL RTE. 19 (IRVING PARK RD.)
(SHEET 1 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	484
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





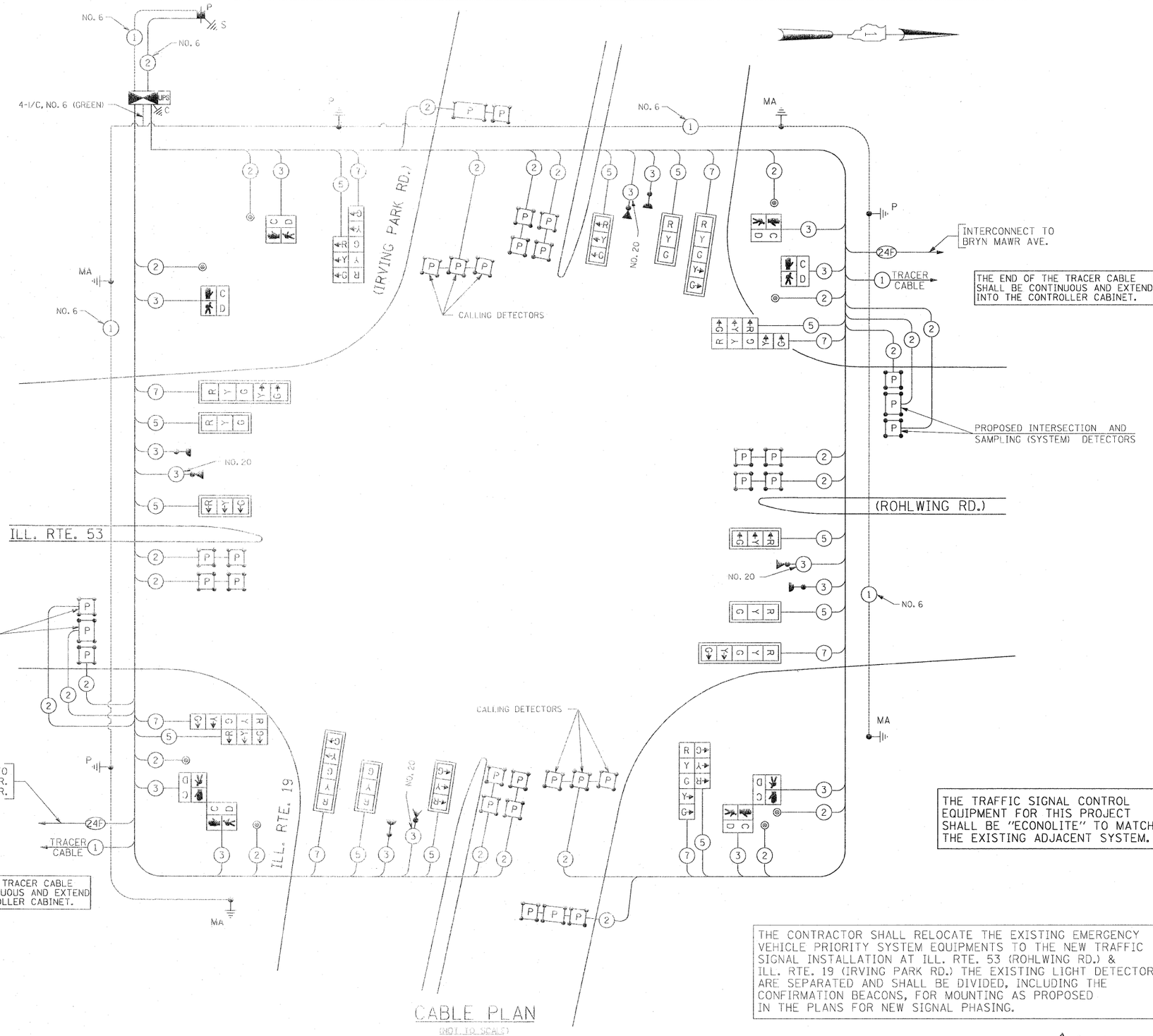


THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

⚠ Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN ILLINOIS ROUTE 53 (ROHLWING RD.) AT ILL. RTE. 19 (IRVING PARK RD.) (SHEET 2 OF 2)
		DRAWN - MAA, EA	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -		
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	485
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



CABLE PLAN

(NOT TO SCALE)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	X WATTAGE INCAND.	LED	X %OPERATION	
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	689.2

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & ILL. RTE. 19 (IRVING PARK RD.) THE EXISTING LIGHT DETECTORS ARE SEPARATED AND SHALL BE DIVIDED, INCLUDING THE CONFIRMATION BEACONS, FOR MOUNTING AS PROPOSED IN THE PLANS FOR NEW SIGNAL PHASING.

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ILL. RTE. 19 (IRVING PARK RD)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	486
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

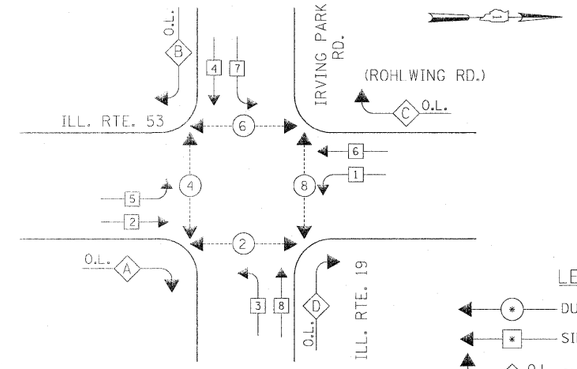
SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
55	SQ FT	SIGN PANEL - TYPE 1
35	SQ FT	SIGN PANEL - TYPE 2
848	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
36	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
43	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
29	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
600	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
812	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
3	EACH	DOUBLE HANDHOLE
928	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1753	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
2938	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3161	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1955	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
5699	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
83	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 64 FT.
12	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
15	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
63	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
18	EACH	INDUCTIVE LOOP DETECTOR
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
* 4	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1195	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
845	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 1129	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF ADDISON

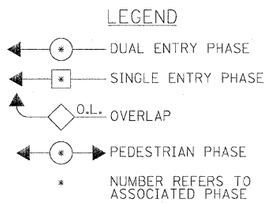
THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & ILL. RTE. 19 (IRVING PARK RD.) THE EXISTING LIGHT DETECTORS ARE SEPARATED AND SHALL BE DIVIDED, INCLUDING THE CONFIRMATION BEACONS, FOR MOUNTING AS PROPOSED IN THE PLANS FOR NEW SIGNAL PHASING.

CONTROLLER SEQUENCE

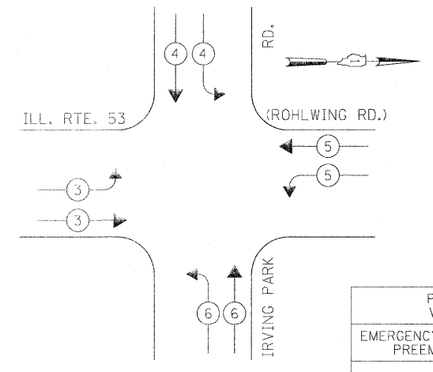


PHASE DESIGNATION DIAGRAM

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



EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

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

⚠ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ILL. RTE. 19 (IRVING PARK RD.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	487
		CONTRACT NO. 60477		

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

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THF 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.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

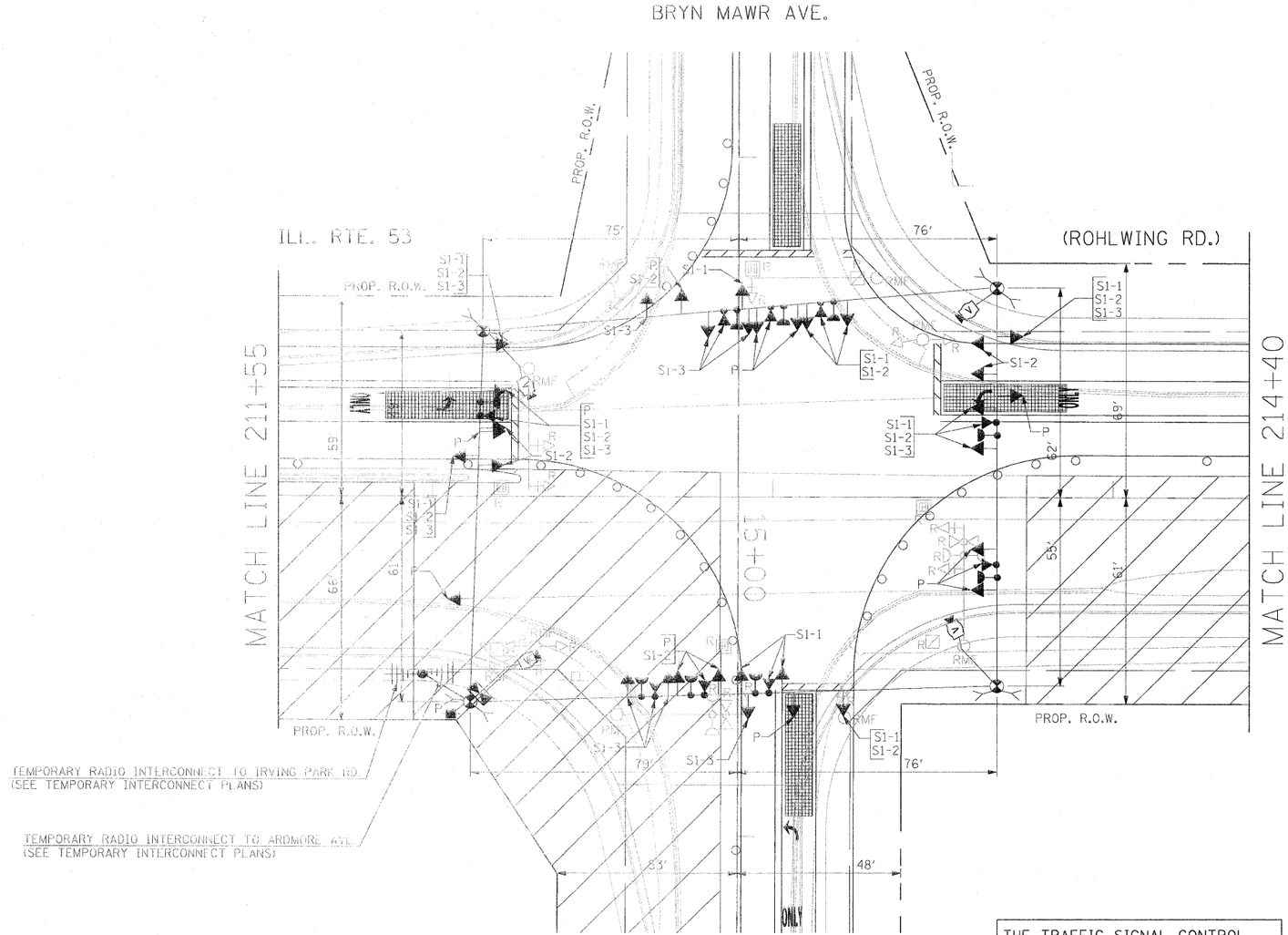
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

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

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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & BRYN MAWR AVE.

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



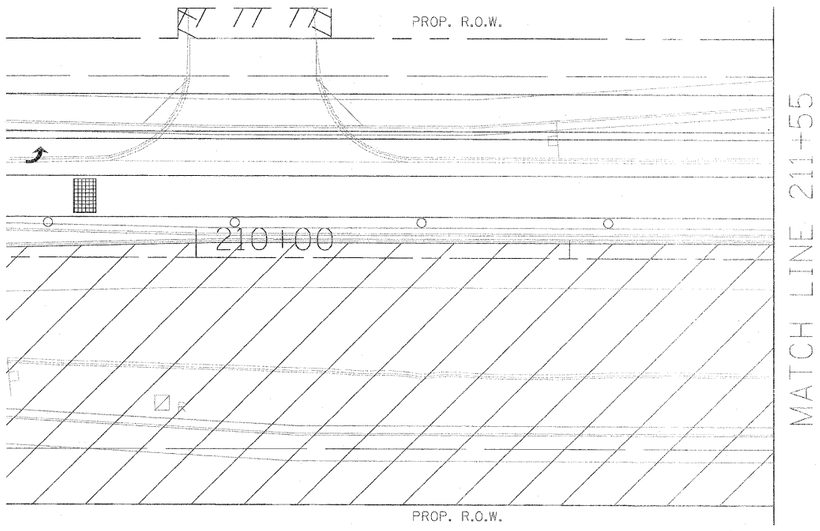
SIGNAL HEAD PLACEMENTS FOR STAGES: PRE-STAGE S1-1, S1-2, AND S1-3.

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

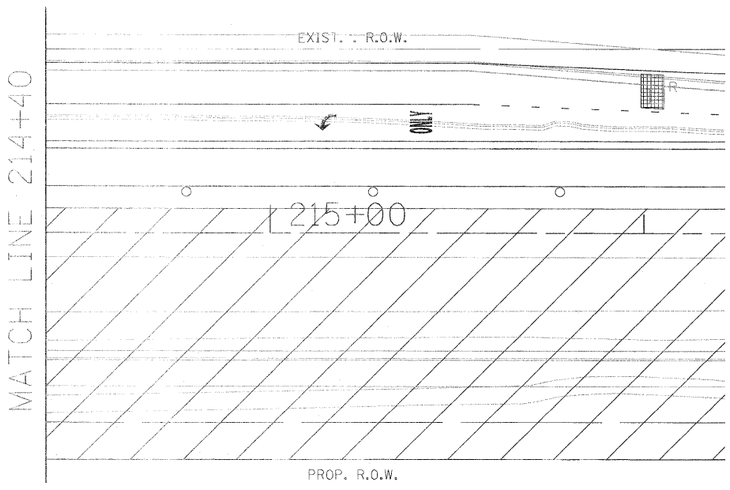
⚠ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN ILLINOIS ROUTE 53 (ROHLWING RD.) AT BRYN MAWR AVE. PRE STAGE AND STAGE 1 (SHEET 1 OF 4).	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MAA, EA	REVISED -			2578	532B	DuPage	781	488
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -					CONTRACT NO. 60477		
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ILL. RTE. 53 (ROHLWING RD.)



ILL. RTE. 53 (ROHLWING RD.)



NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

Rev. 6-8-11

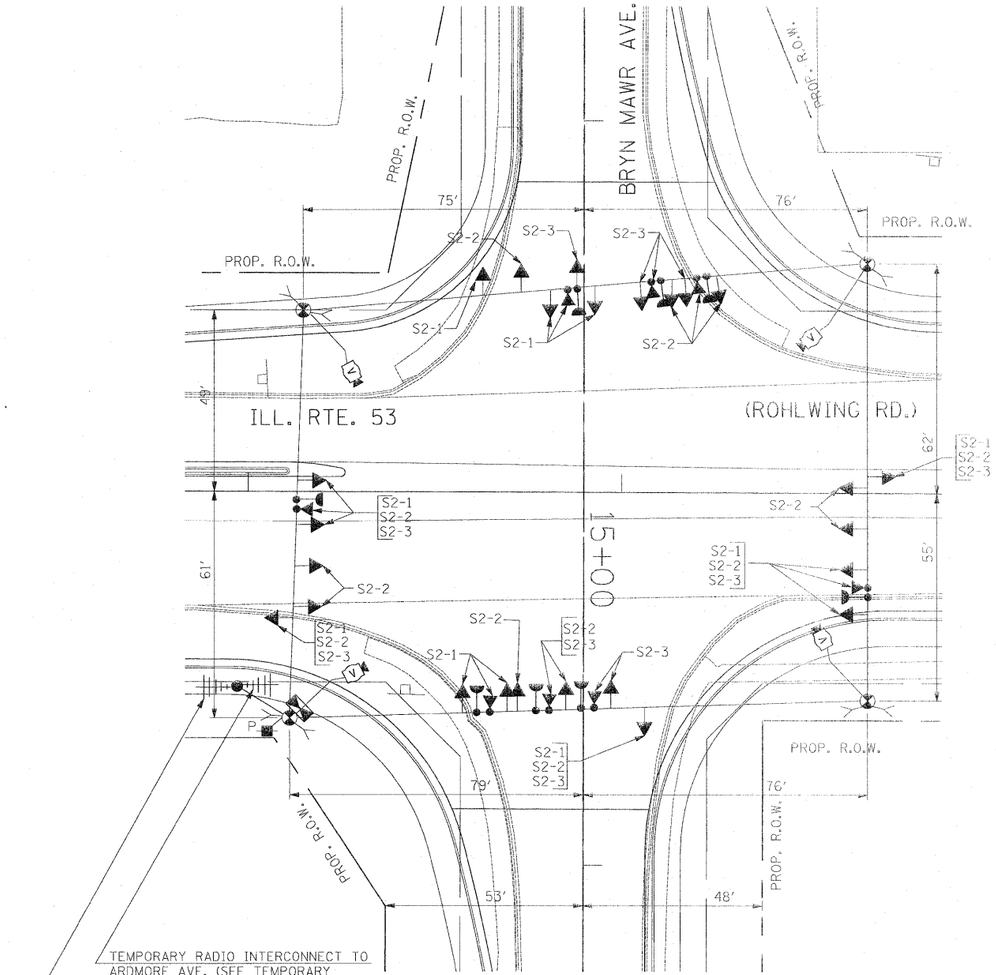
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

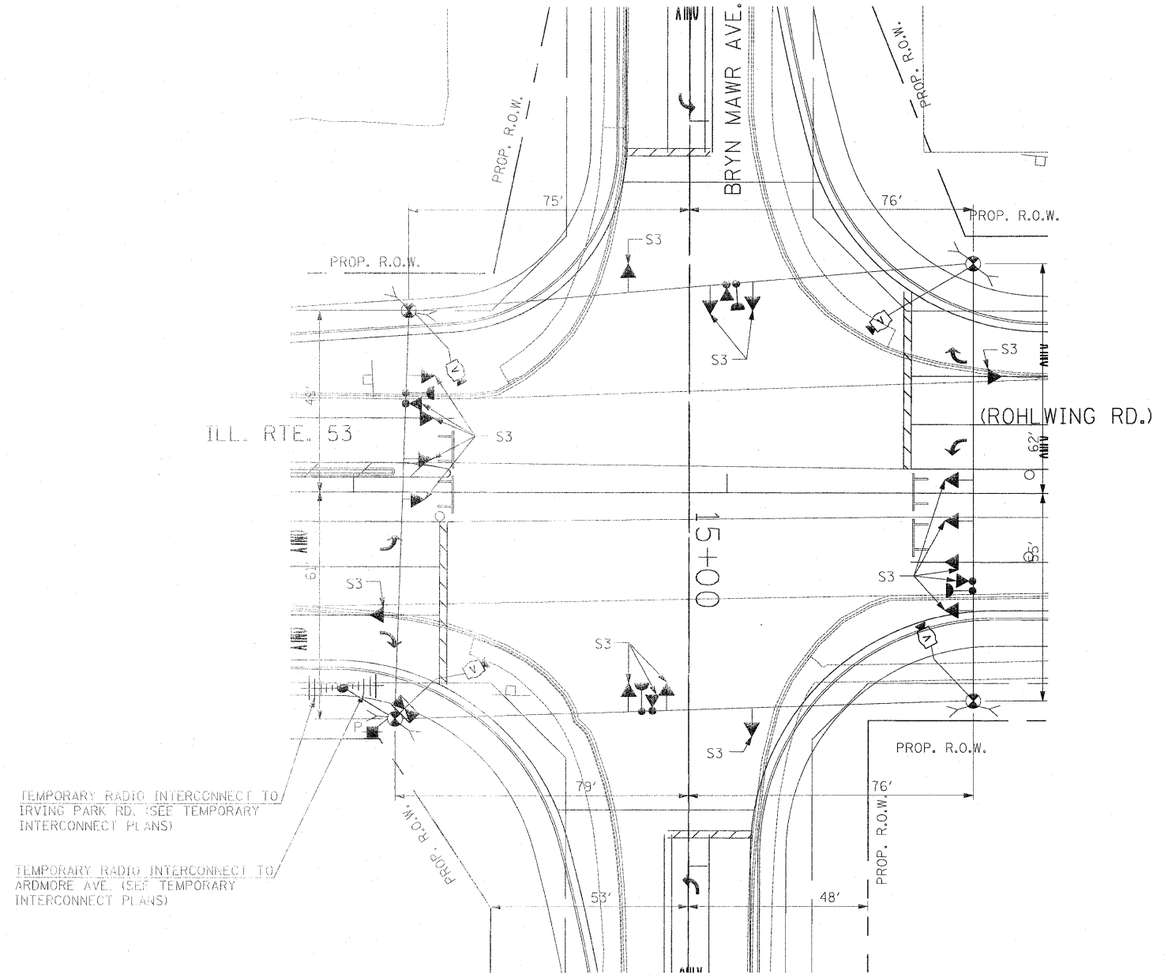
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT BRYN MAWR AVE. PRE STAGE AND STAGE 1 (SHEET 2 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	489
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



SIGNAL HEAD PLACEMENTS FOR STAGES: S2-1, S2-2, AND S2-3.



SIGNAL HEAD PLACEMENTS FOR STAGE S3

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

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

⚠Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

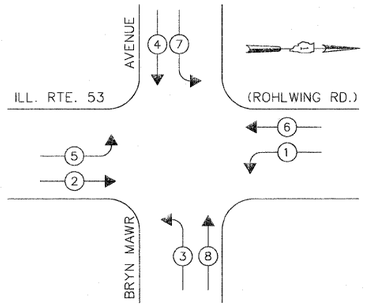
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT BRYN MAWR AVE.
STAGE 2 AND STAGE 3 (SHEET 3 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	490
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



LEGEND

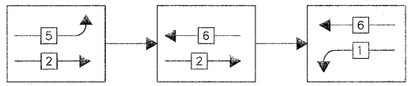
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. OVERLAP
- PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

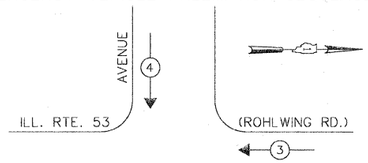
STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

FOR PHASES 1, 2, 5, & 6 IN THE PHASE DESIGNATION DIAGRAM SHOWN ABOVE, THE FOLLOWING PHASE SEQUENCE SHALL BE FOLLOWED FOR STAGES S1-2, S2-2, AND S3.



PHASES 3, 4, 7 & 8 SHALL FOLLOW THE STANDARD SEQUENCE IN ACCORDANCE WITH STATE STANDARD 857001

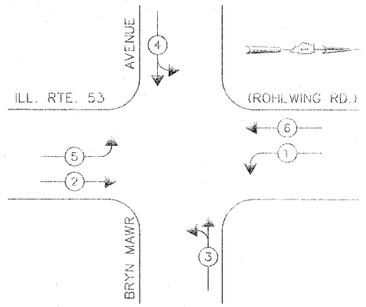
EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↓↑

STAGES: PRE-STAGE, S1-1, S1-3, S2-1, S2-3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

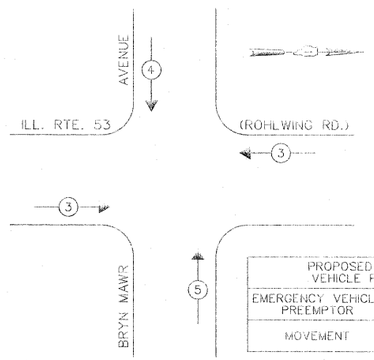
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: STAGE 2 - SUBSTAGE 3

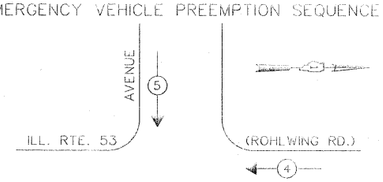
EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

STAGES: STAGE 2 - SUBSTAGE 3

EMERGENCY VEHICLE PREEMPTION SEQUENCE



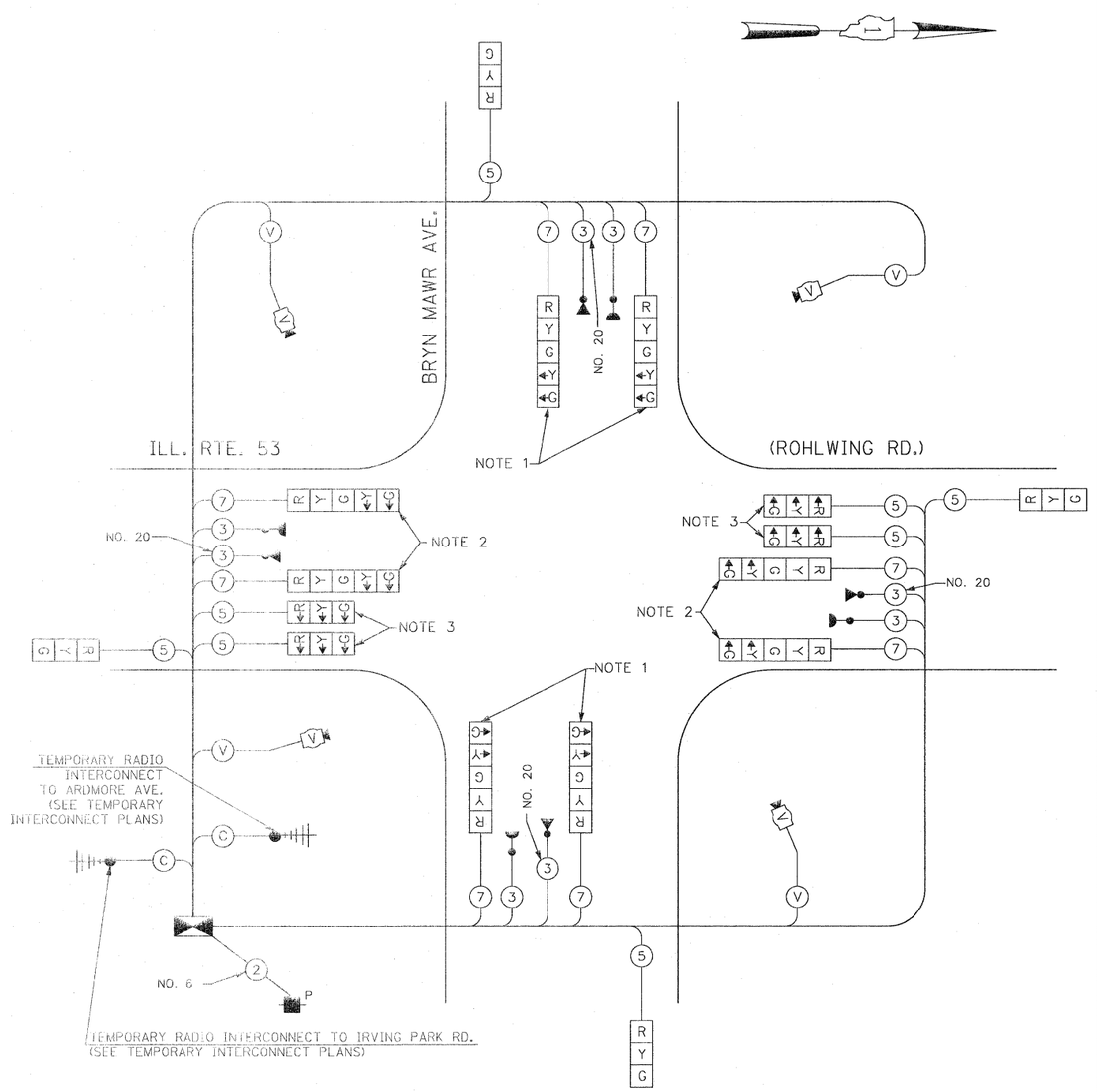
PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↓↑

STAGES: S1-2, S2-2, AND S3

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	X WATTAGE INCAND.	LED	X %OPERATION	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	491.2

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON



TEMPORARY CABLE PLAN

(NOT TO SCALE)

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

NOTE 1: THE LEFT TURN YELLOW ARROW INDICATION SECTIONS FOR BRYN MAWR AVENUE SHALL BE DISCONNECTED AND BAGGED DURING CONSTRUCTION STAGE 2 - SUBSTAGE 3.

NOTE 2: THE GREEN AND YELLOW LEFT TURN ARROW INDICATION SECTIONS IN THE 5-SECTION SIGNAL HEADS FOR THE NORTHBOUND AND SOUTHBOUND DIRECTIONS OF TRAFFIC SHALL BE DISCONNECTED AND BAGGED DURING CONSTRUCTION STAGES S1-2, S2-2, AND S3.

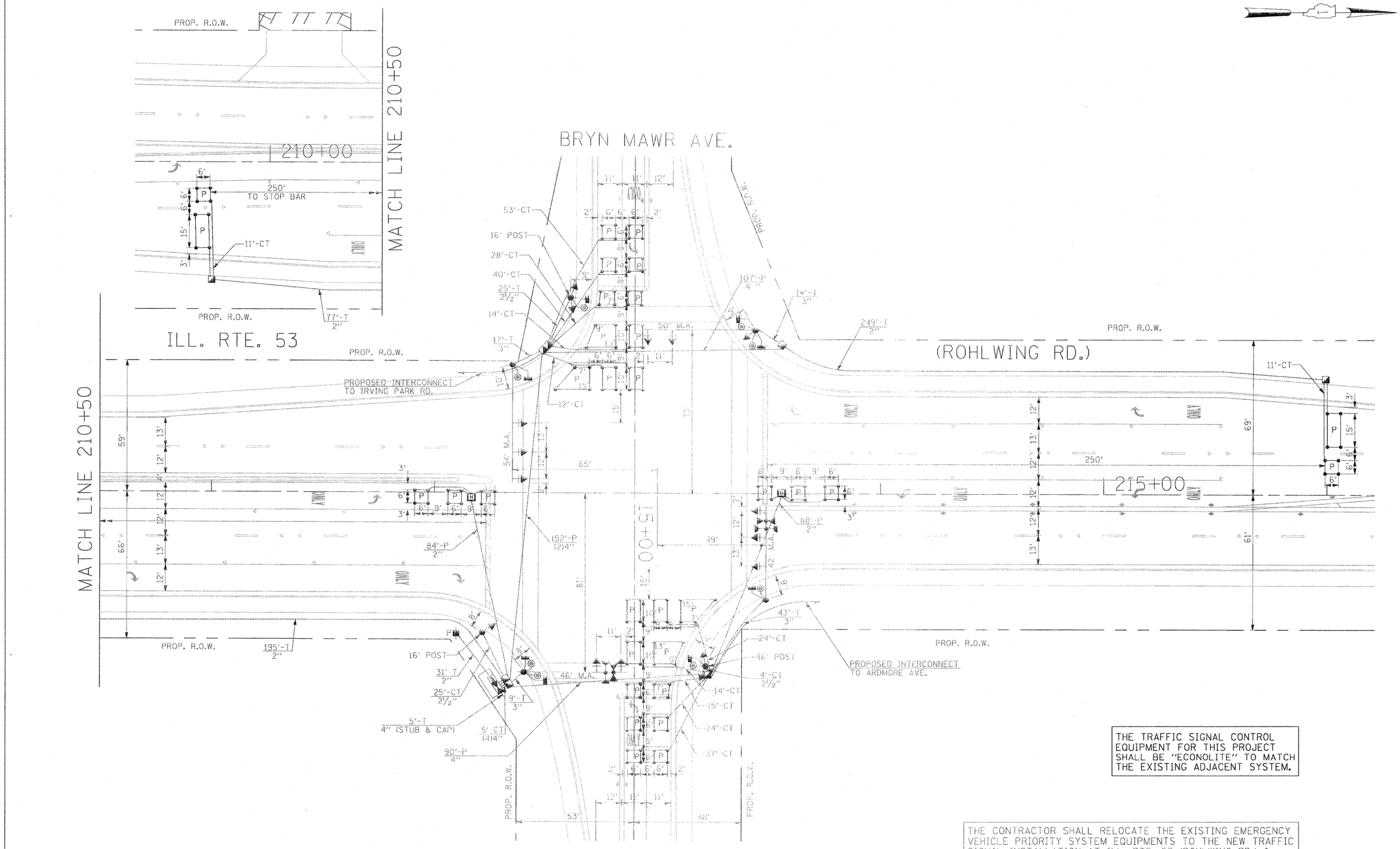
NOTE 3: THE 3-SECTION SIGNAL HEADS WITH ALL LEFT TURN ARROW INDICATIONS SHALL BE NEEDED ONLY DURING CONSTRUCTION STAGES S1-2, S2-2, AND S3. THEY WILL BE DISCONNECTED AND BAGGED DURING OTHER CONSTRUCTION STAGES.

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

1 Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE, ILLINOIS ROUTE 53 (ROHLWING RD.) AT BRYN MAWR AVE., PRE-STAGE, STAGE 1, STAGE 2, AND STAGE 3 (SHEET 4 OF 4)
	PLOT SCALE = $SCALE$	DRAWN - MAA, EA	REVISED -		SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = $DATE$	CHECKED - PKG, EA	REVISED -		
		DATE - 5/18/2011	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	491
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & BRYN MAWR AVE.

⚠ Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT BRYN MAWR AVE.

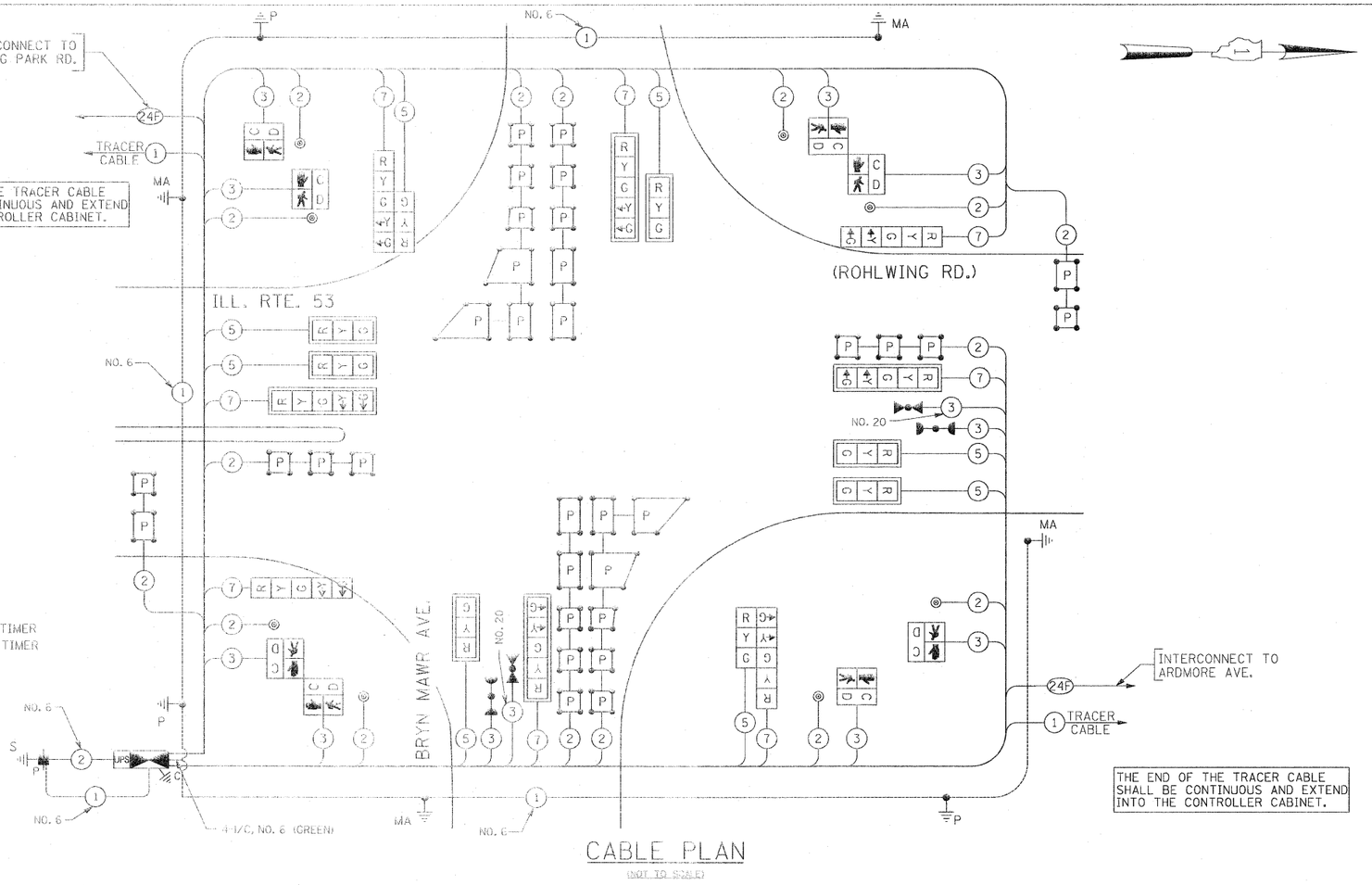
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	492
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
15	SQ FT	SIGN PANEL - TYPE 1
22.5	SQ FT	SIGN PANEL - TYPE 2
552	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
54	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
83	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
172	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
501	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
4	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
670	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1493	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1865	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1790	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1780	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1797	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
51	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.
12	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
56	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	INDUCTIVE LOOP DETECTOR
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
* 2	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
10	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1290	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
667	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 317	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF ITASCA

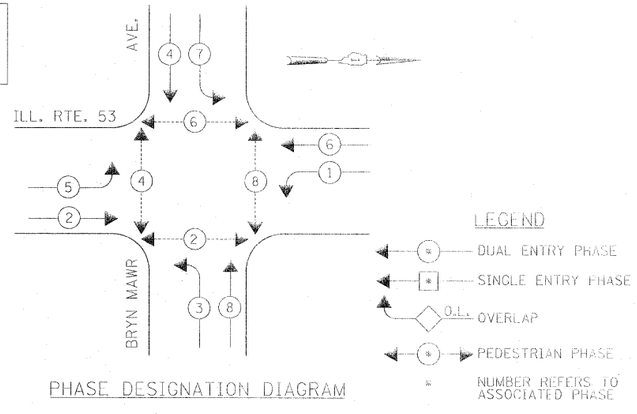


CABLE PLAN

(NOT TO SCALE)

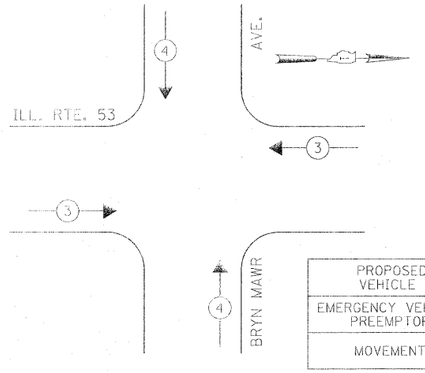
THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & BRYN MAWR AVE.

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	615.2

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

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

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT BRYN MAWR AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	493
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

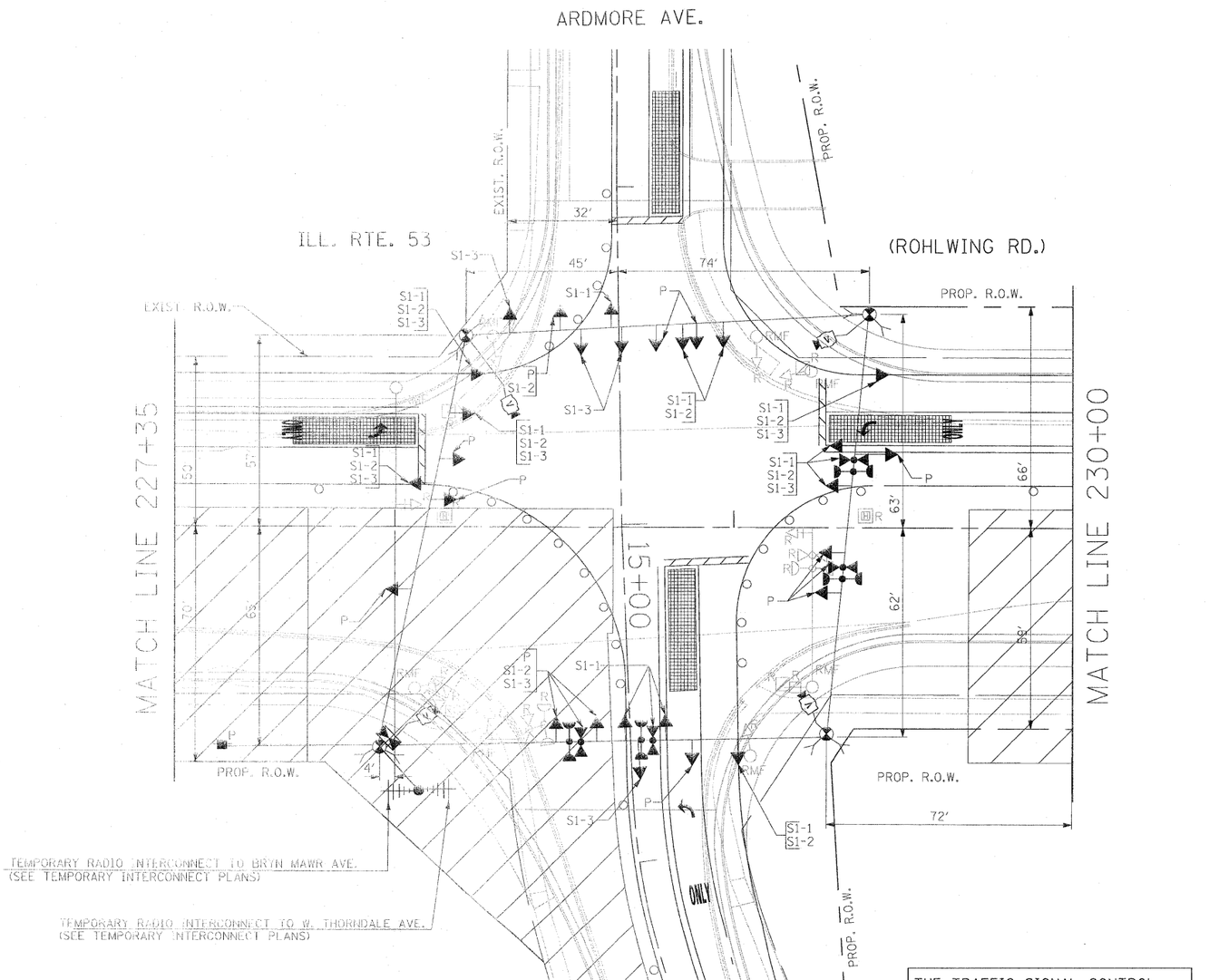
1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
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.

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

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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & ARDMORE AVE.

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



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

⚠ Rev. 6-8-11

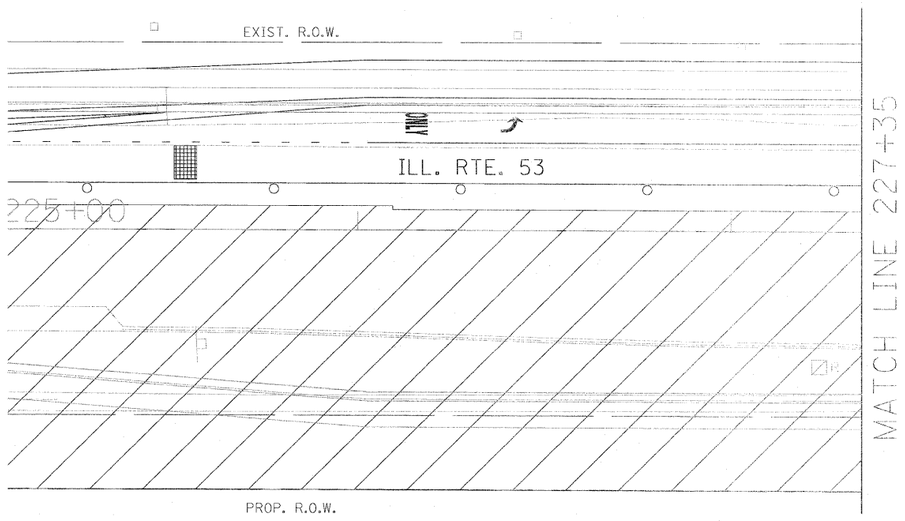
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

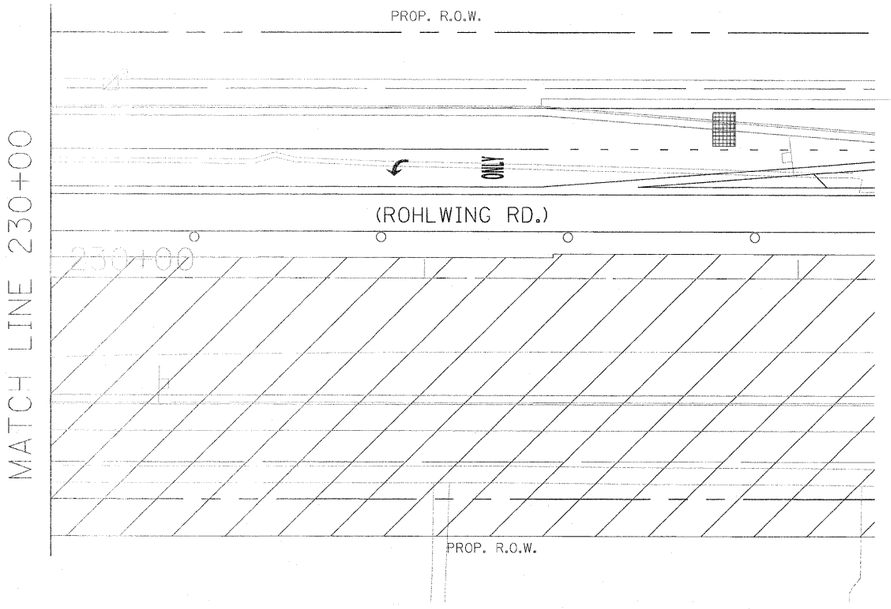
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARDMORE AVE. PRE STAGE AND STAGE 1 (SHEET 1 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	494
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





Rev. 6-8-11

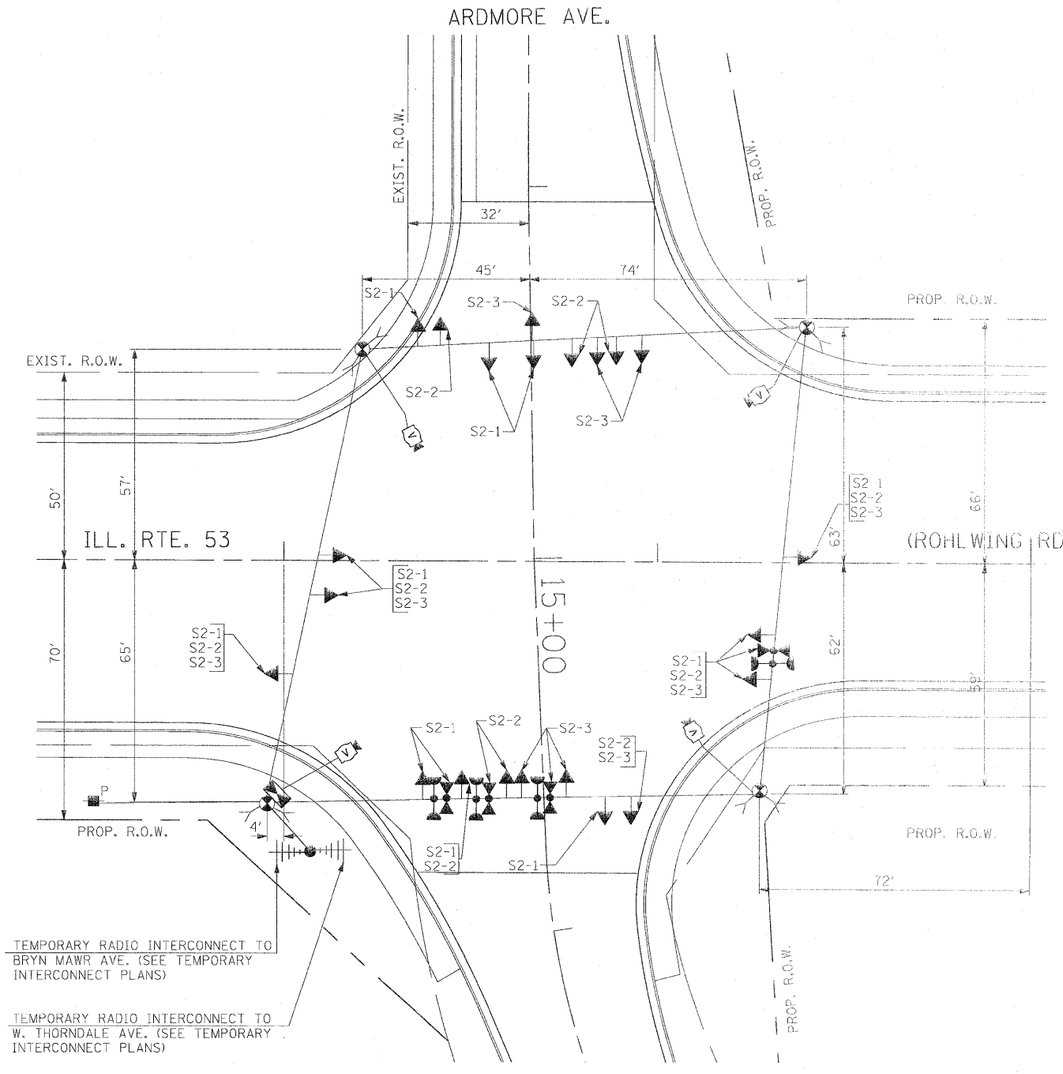
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

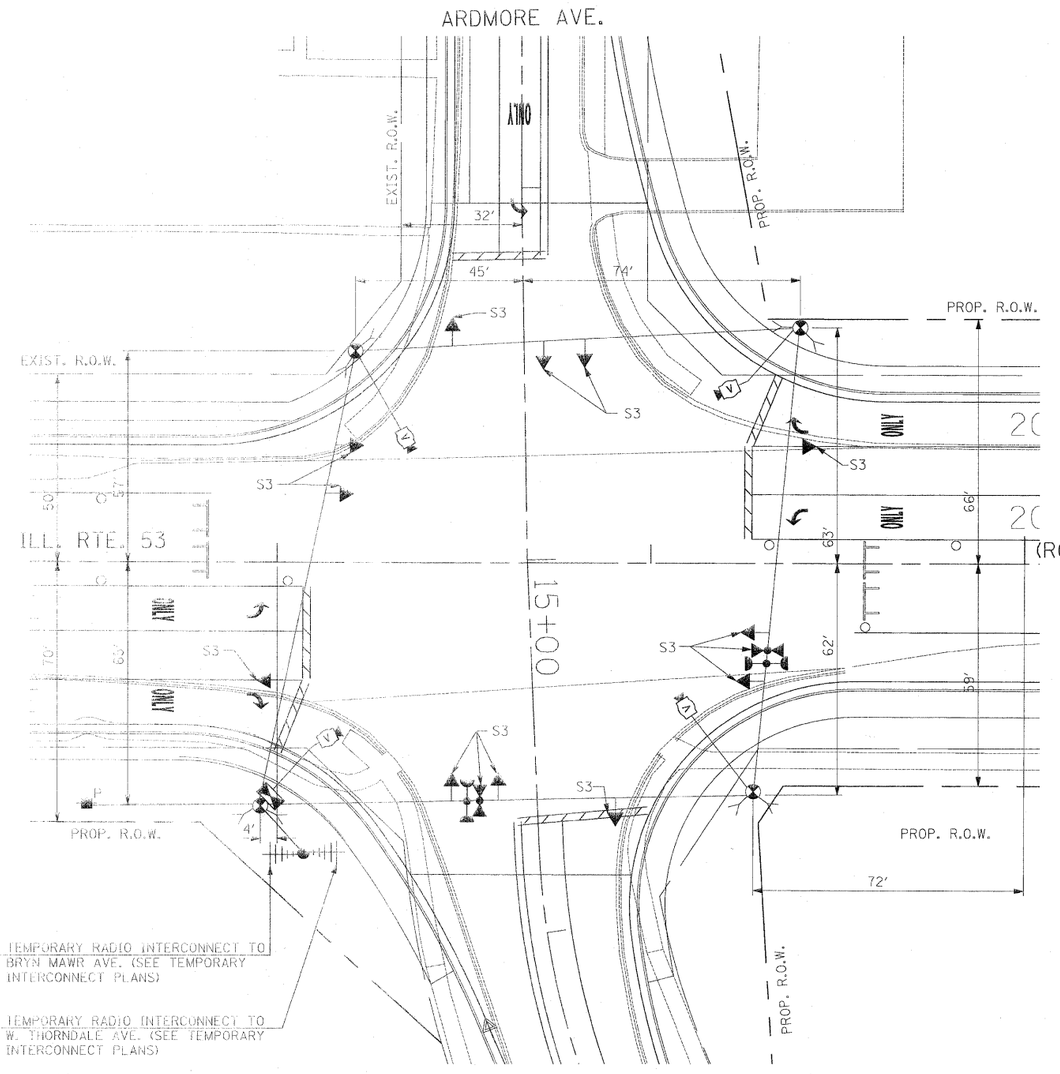
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARDMORE AVE. PRE STAGE
AND STAGE 1 (SHEET 2 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	495
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SIGNAL HEAD PLACEMENTS FOR STAGES: S2-1, S2-2, AND S2-3.



SIGNAL HEAD PLACEMENTS FOR STAGES S3

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

⚠ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

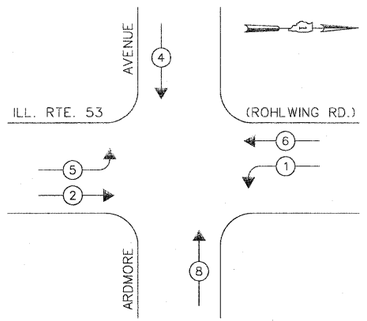
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARDMORE AVE.
STAGE 2 AND STAGE 3 (SHEET 3 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	496
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



LEGEND

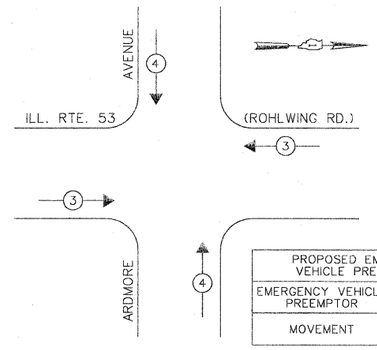
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. OVERLAP
- PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

EMERGENCY VEHICLE PREEMPTION SEQUENCE



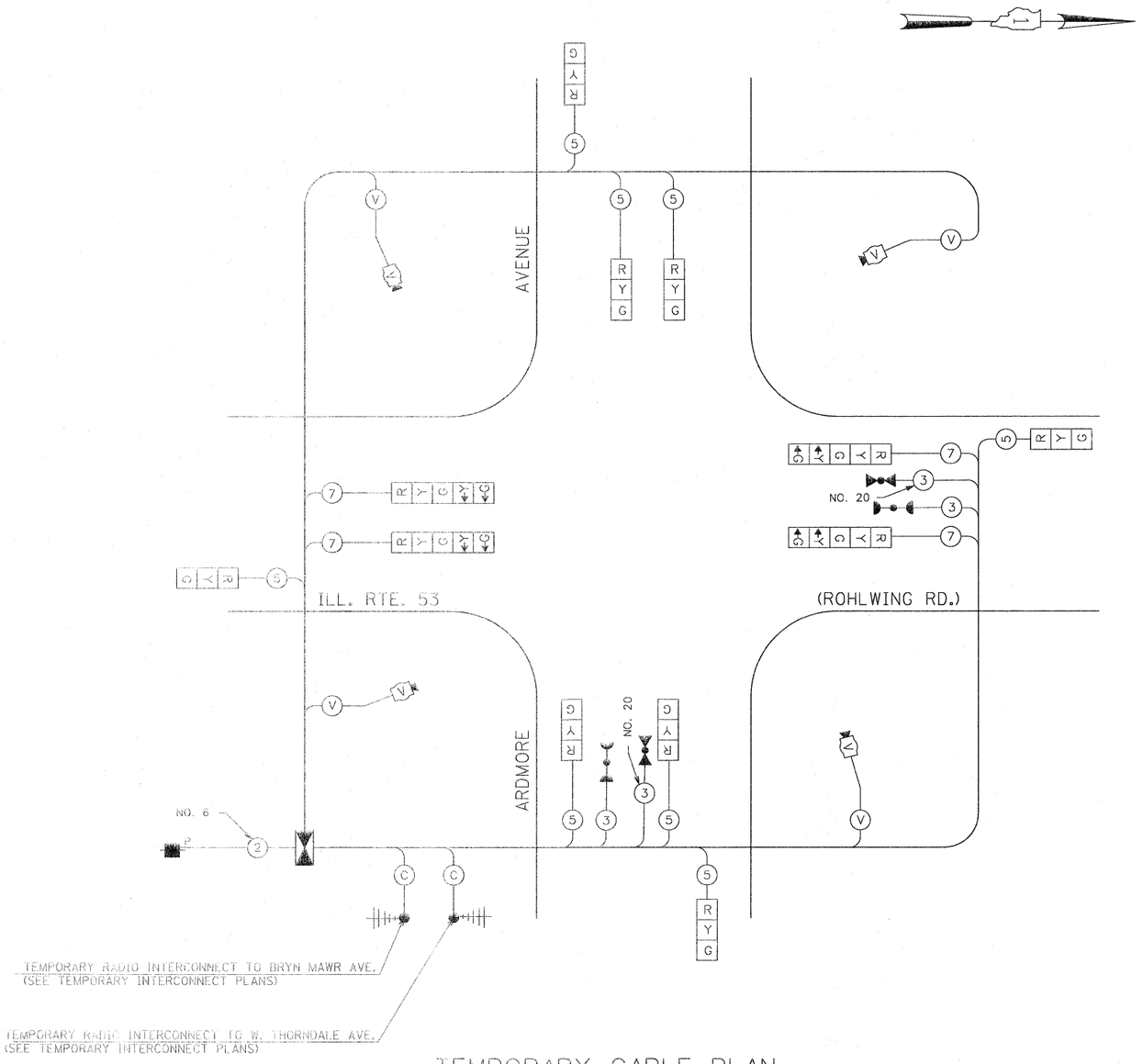
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.6
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	481.6

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON



TEMPORARY CABLE PLAN

(NOT TO SCALE)

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

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

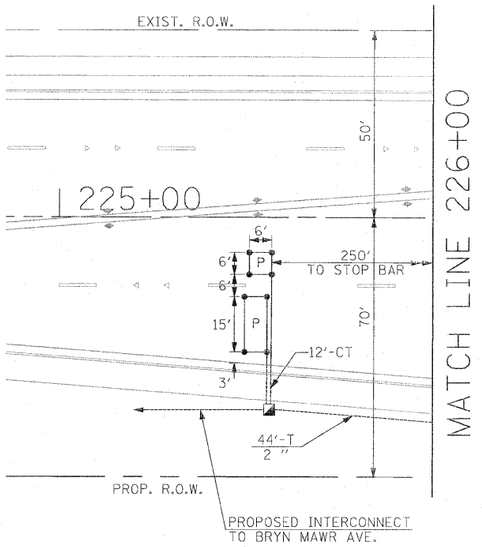
1 Rev. 6-8-11

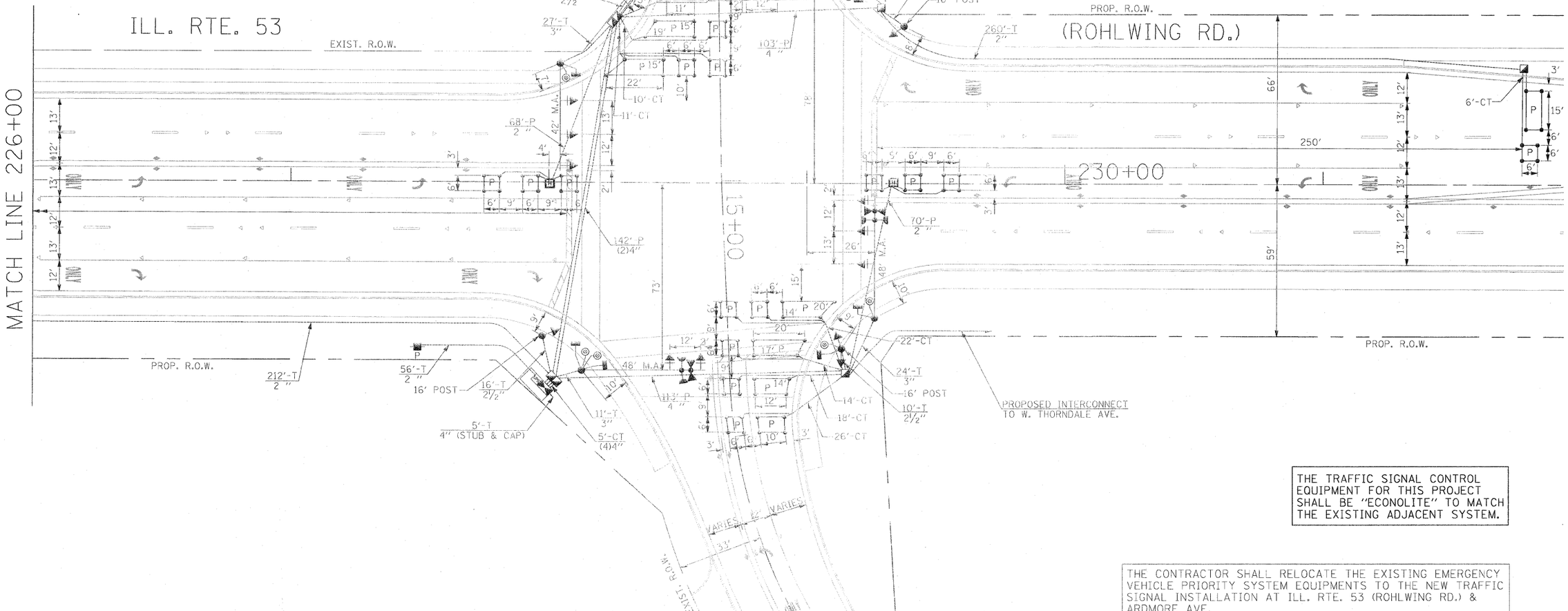
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARDMORE AVE.
PRE STAGE, STAGE 1, STAGE 2 AND STAGE 3 (SHEET 4 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	497
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & ARDMORE AVE.

⚠ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARDMORE AVE.

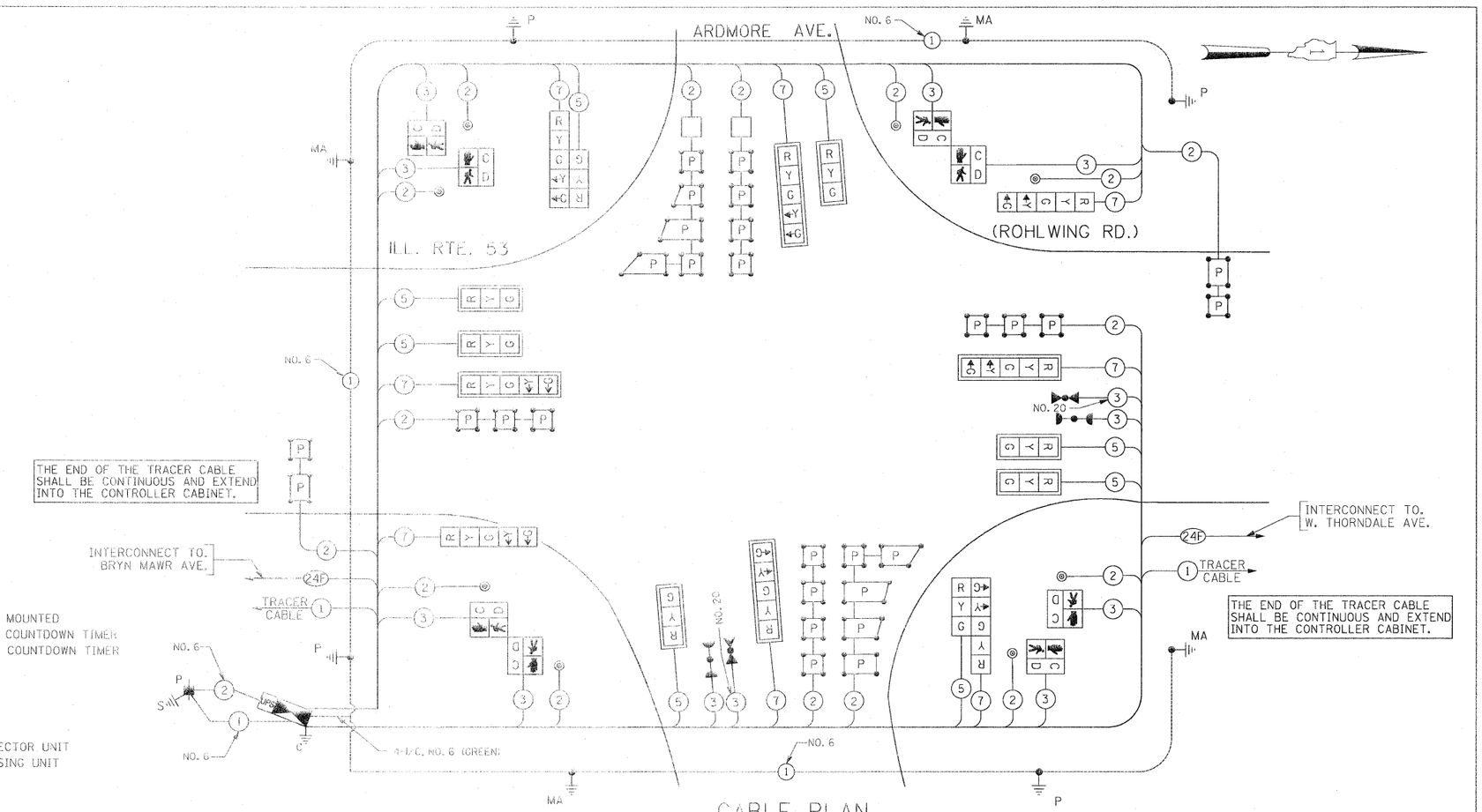
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	498
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
33	SQ FT	SIGN PANEL - TYPE 1
572	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
46	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
78	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
144	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
500	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
4	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
660	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1480	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1879	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1788	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1750	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1954	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
76	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
1	EACH	STEEL MAST ARM ASSEMBLEY AND POLE, 44 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
52	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	INDUCTIVE LOOP DETECTOR
66	FOOT	DETECTOR LOOP, TYPE 1
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
* 2	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1220	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
854	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 343	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF ITASCA

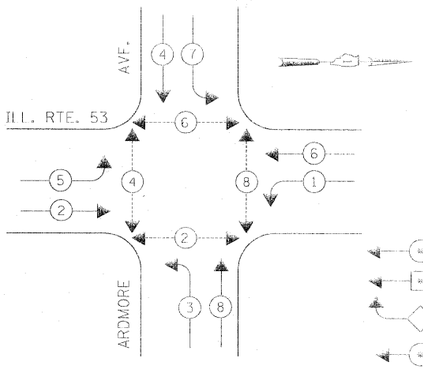


CABLE PLAN

(NOT TO SCALE)

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

CONTROLLER SEQUENCE

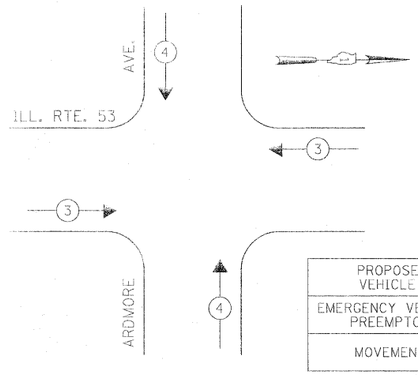


LEGEND

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

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & ARDMORE AVE.

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X ZOPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	615.2

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT ARDMORE AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	499
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

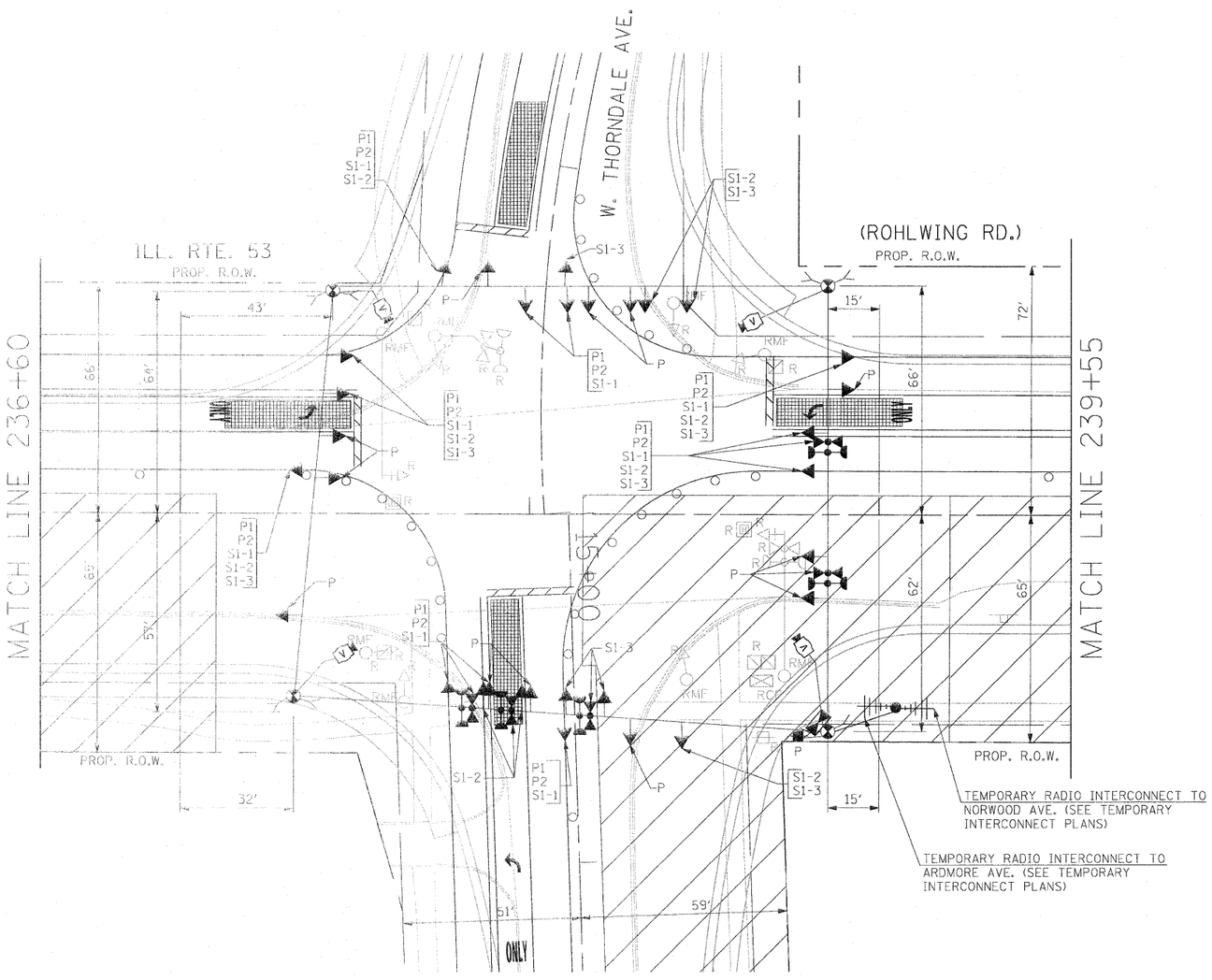
1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
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.

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

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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & W. THORNDALE AVE.

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



SIGNAL HEAD PLACEMENTS FOR STAGES: PRE-STAGE S1-1, S1-2, AND S1-3.

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

Rev. 6-8-11

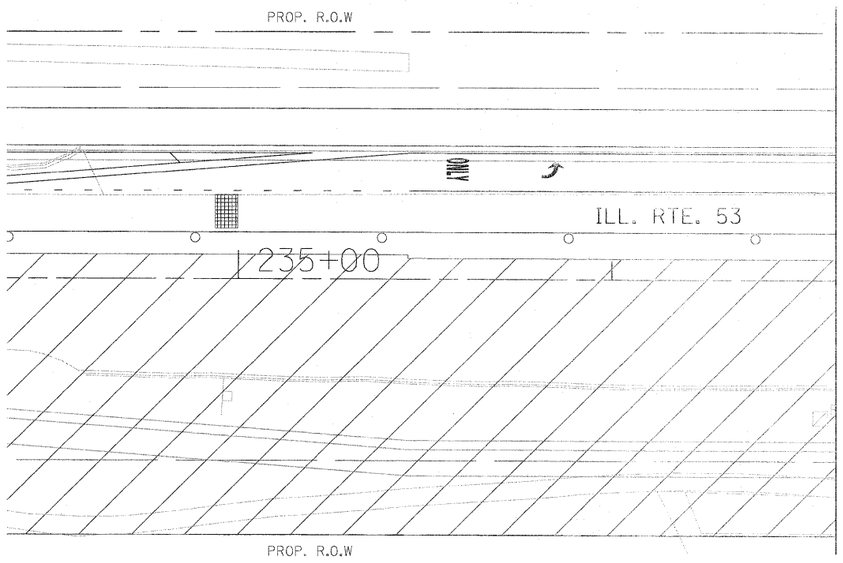
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

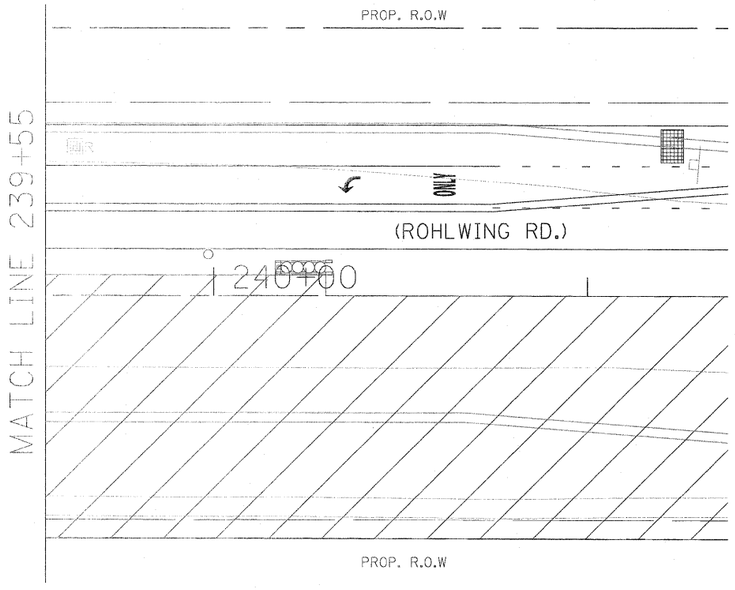
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT W. THORNDALE AVE.
PRE STAGE AND STAGE 1 (SHEET 1 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	500
		CONTRACT NO. 60477		

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



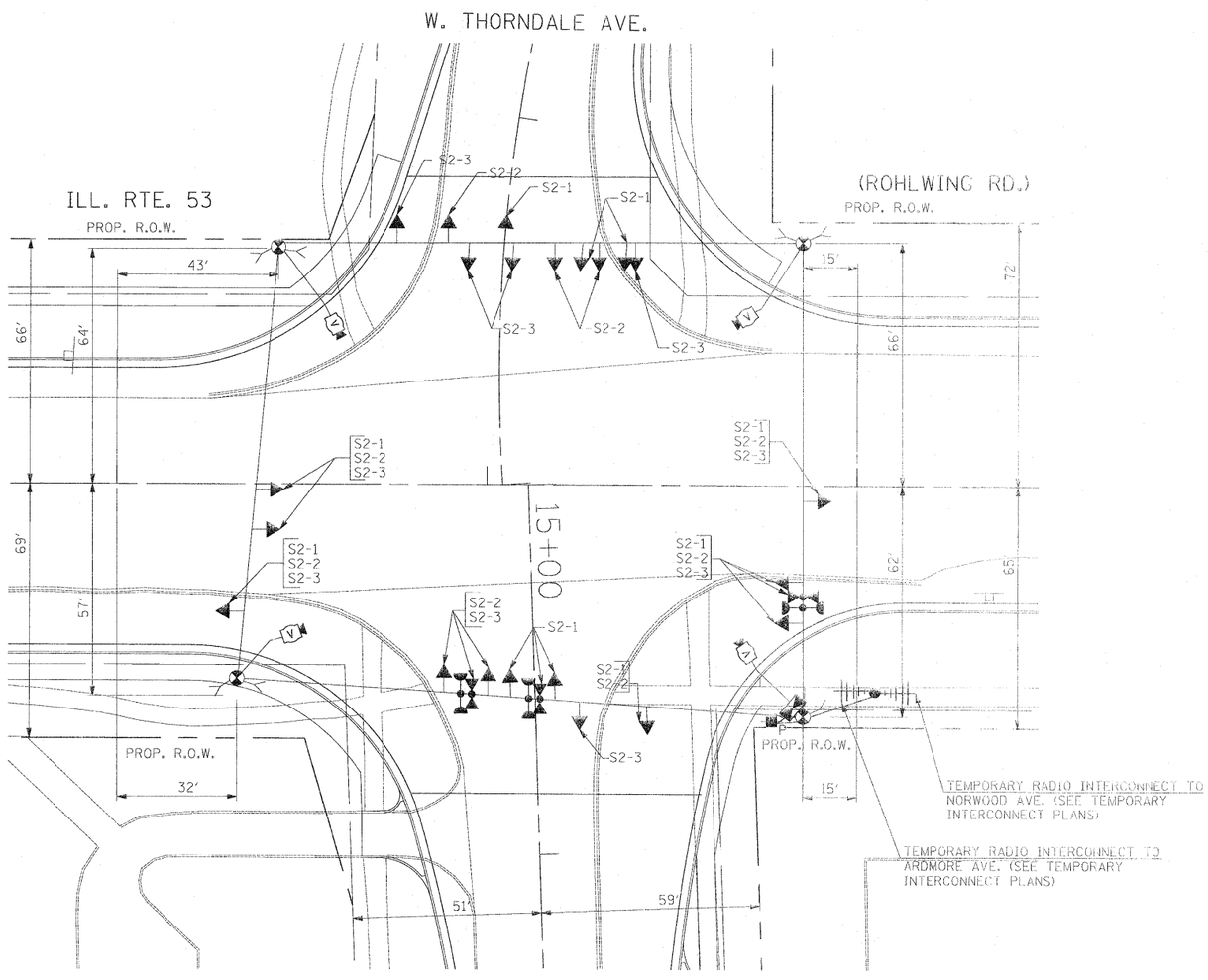


FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN ILLINOIS HOUTE 53 (ROHLWING RD.) AT W. THORNDALE AVE. PRE STAGE AND STAGE 1 (SHEET 2 OF 4).
		DRAWN - MAA, EA	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -		SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		

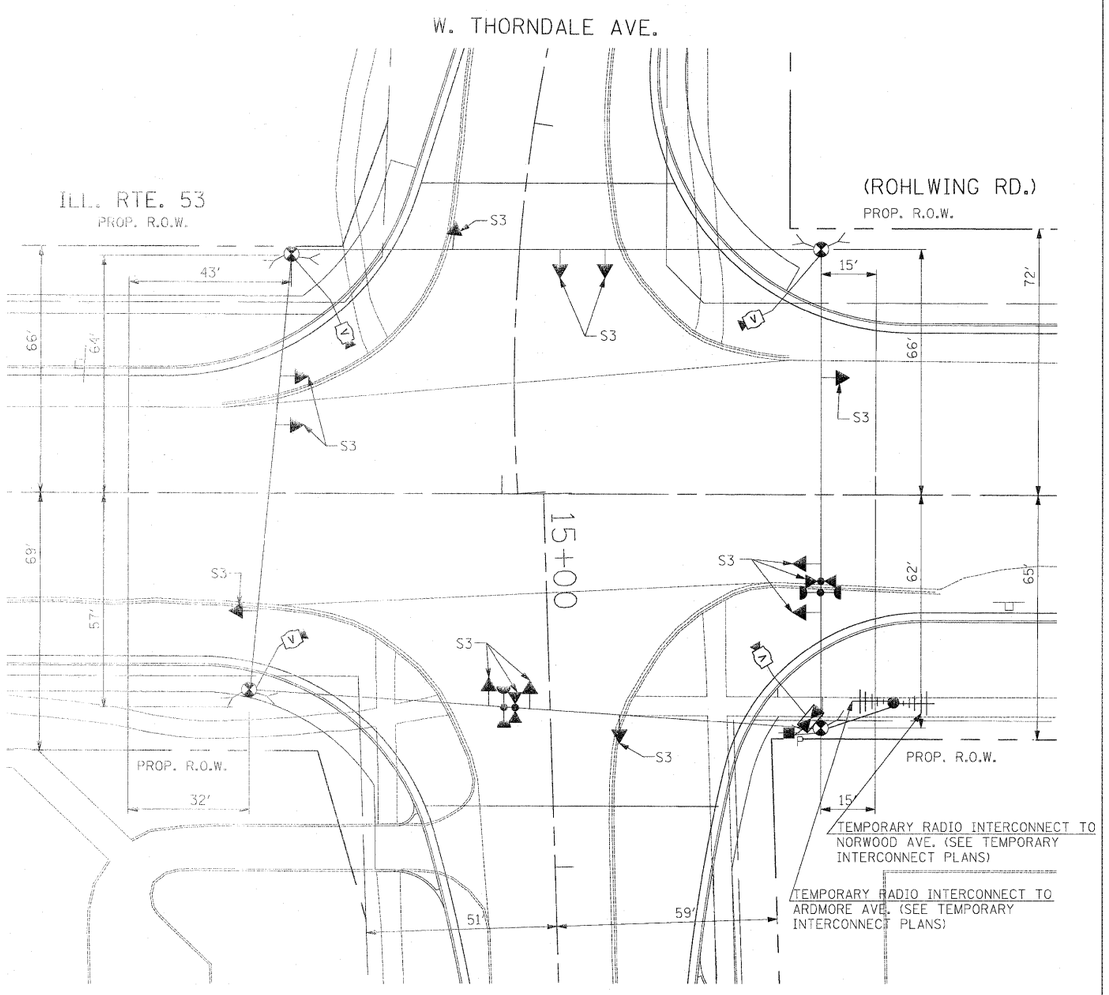
⚠ Rev. 6-8-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	501
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



SIGNAL HEAD PLACEMENTS FOR STAGES: S2-1, S2-2, AND S2-3.



SIGNAL HEAD PLACEMENTS FOR STAGE 3

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

1 Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

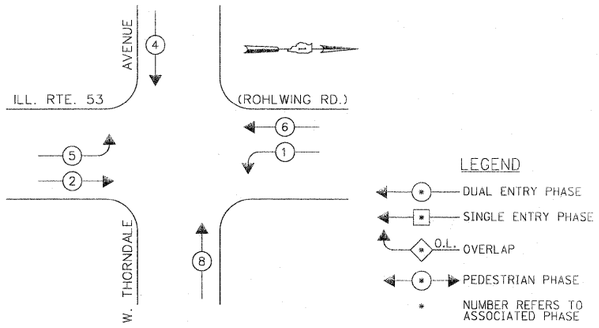
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT W. THORNDALE AVE.
STAGE 2 AND STAGE 3 (SHEET 3 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	502
		CONTRACT NO. 60477		

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

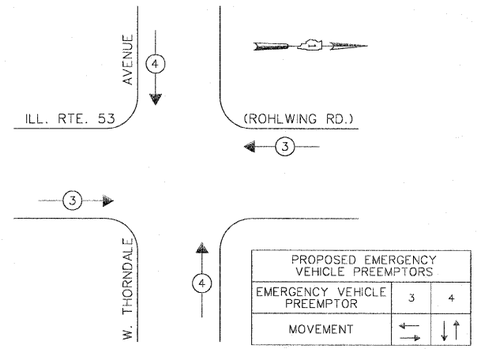
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

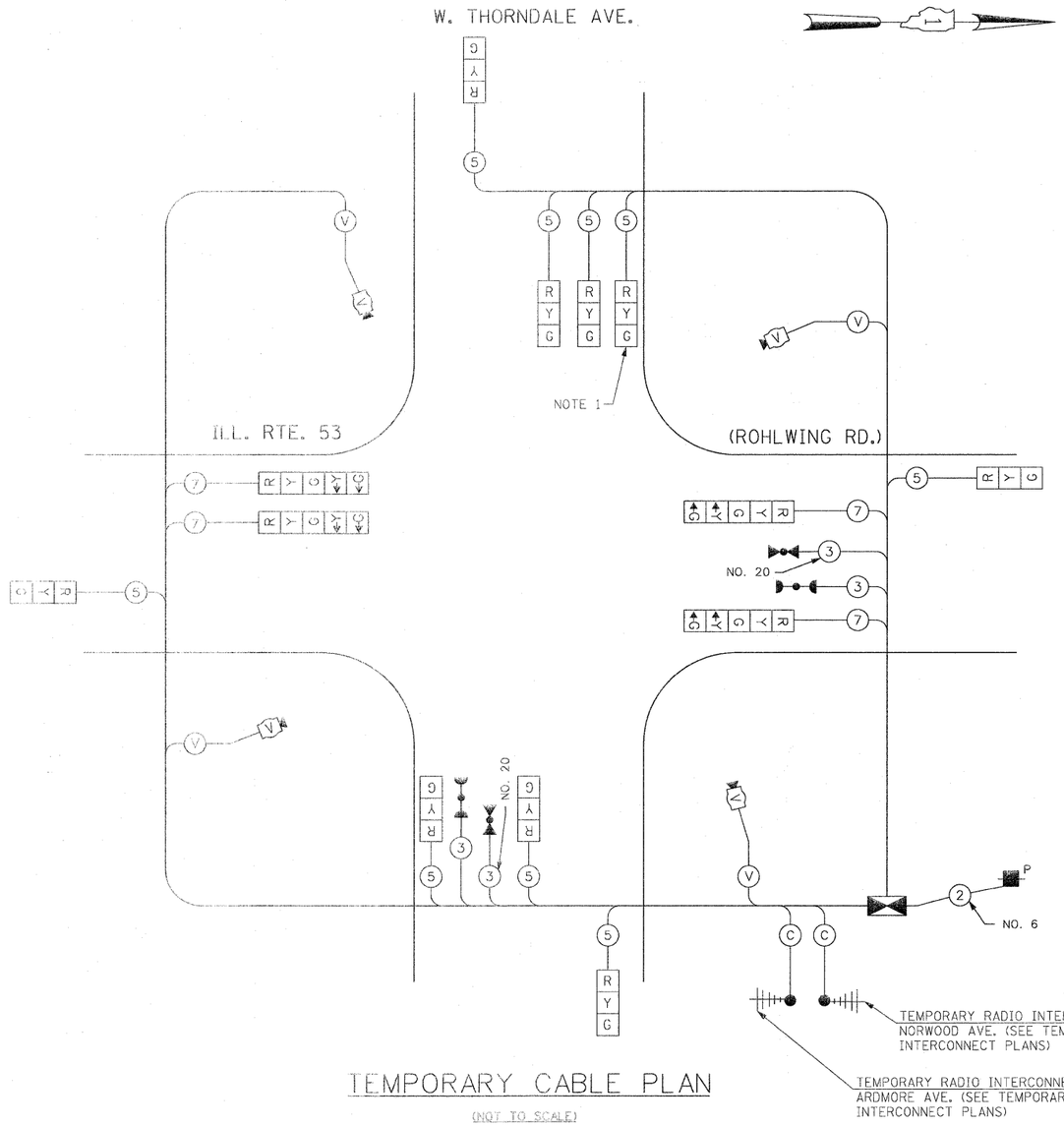
STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	135	17	0.50	110.5
(YELLOW)	13	135	25	0.25	81.25
(GREEN)	13	135	15	0.25	48.75
ARROW	8	135	12	0.10	9.6
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	500.1

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON



TEMPORARY CABLE PLAN

(NOT TO SCALE)

STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

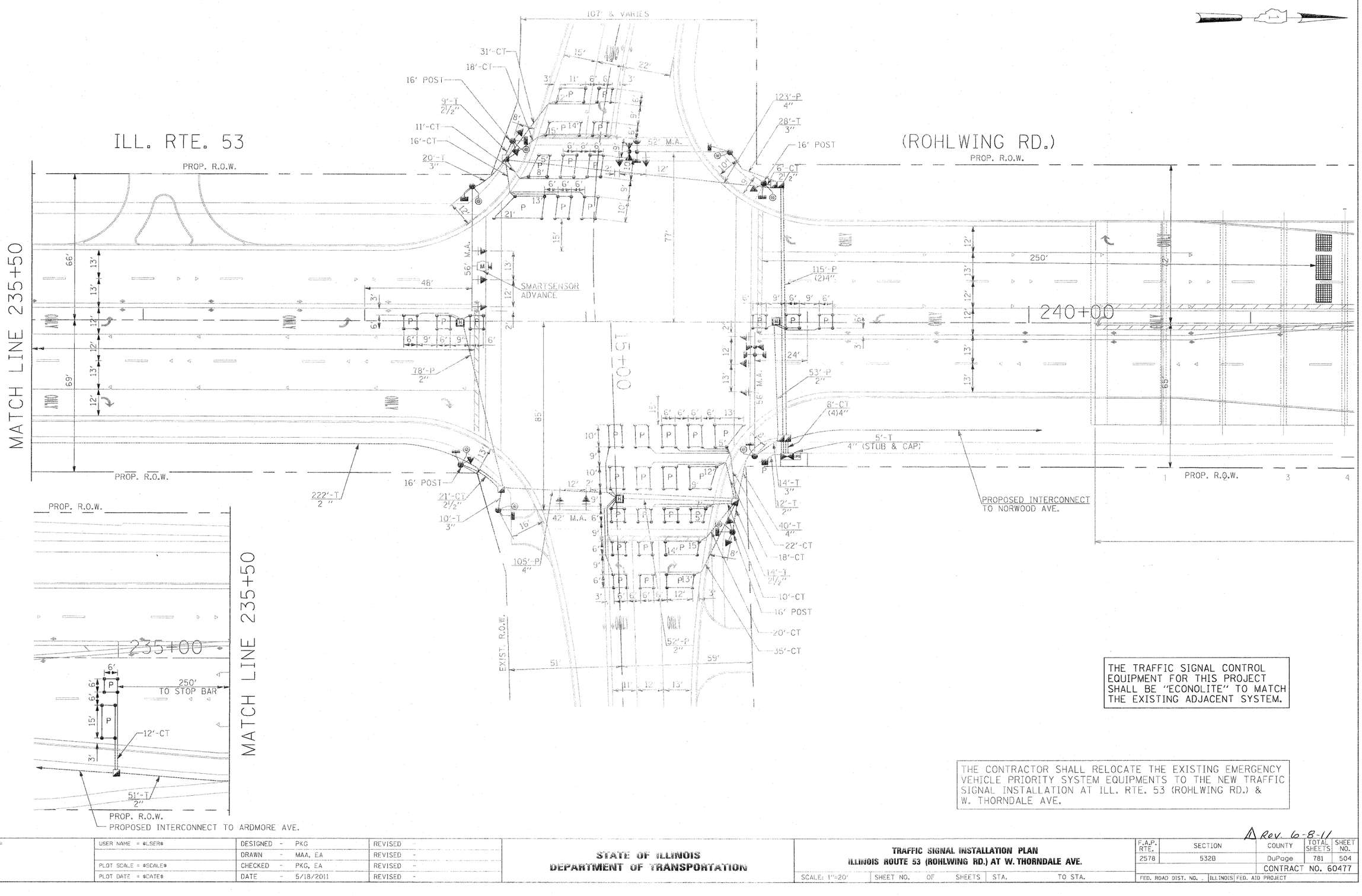
NOTE 1: THE 3-SECTION SIGNAL HEADS WITH CIRCULAR RED, YELLOW, AND GREEN INDICATIONS SHOWN WITH NOTE 1 FOR THE WESTBOUND DIRECTION OF TRAFFIC ARE NEEDED ONLY DURING STAGE 2 - SUBSTAGE 3 CONSTRUCTION ONLY AND SHALL NOT BE USED IN ANY OTHER CONSTRUCTION STAGES, AND SHALL BE BAGGED AND DISCONNECTED DURING OTHER CONSTRUCTION STAGES.

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

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE ILLINOIS ROUTE 53 (ROHLWING RD.) AT W. THORNDALE AVE. PRE-STAGE, STAGE 1, STAGE 2, AND STAGE 3 (SHEET 4 OF 4).
		DRAWN - MAA, EA	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -		
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	503
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & W. THORNDALE AVE.

Δ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT W. THORNDALE AVE.

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

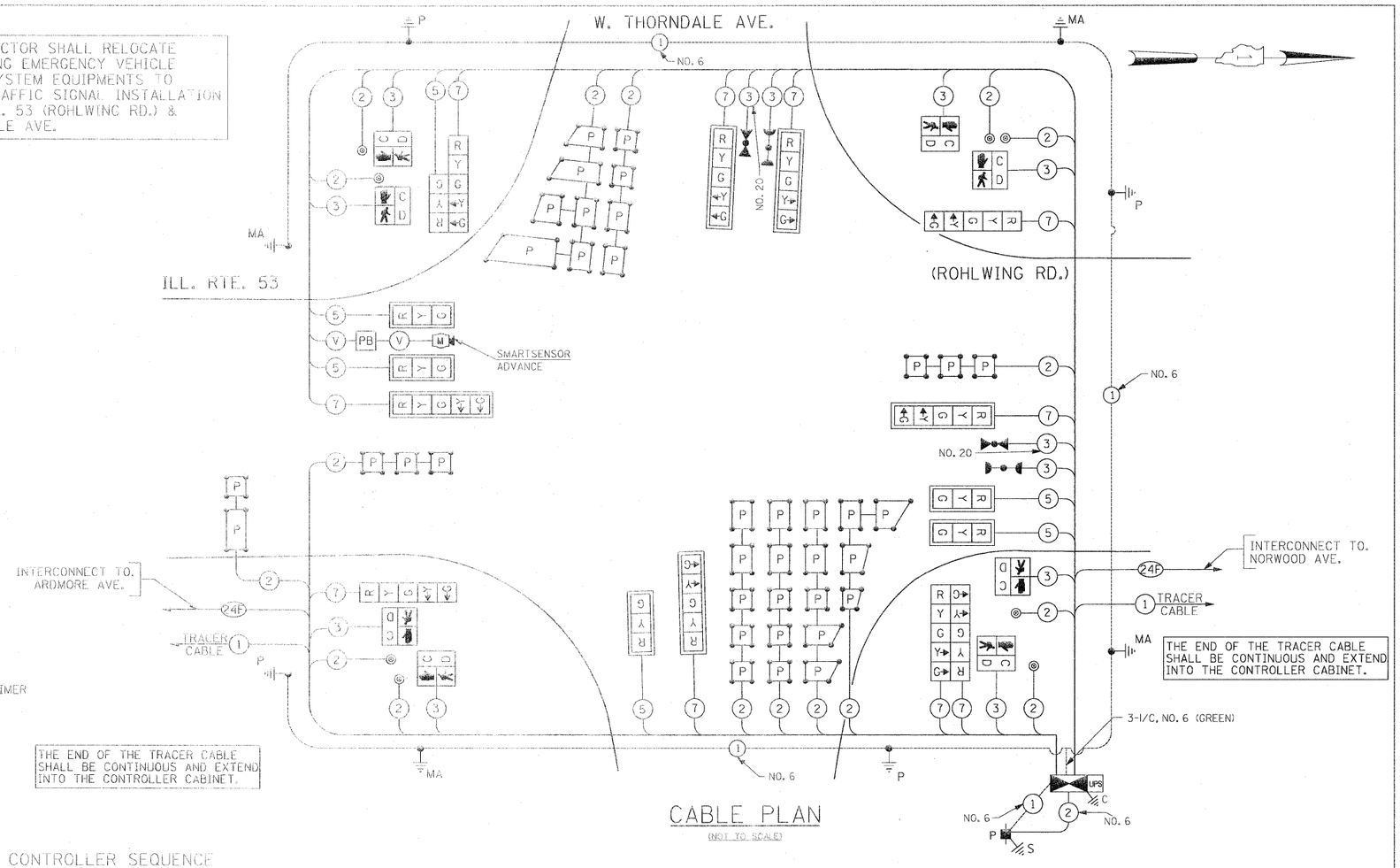
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	504
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
15	SQ FT	SIGN PANEL - TYPE 1
22.5	SQ FT	SIGN PANEL - TYPE 2
284	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
50	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
112	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
37	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
183	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
458	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
4	EACH	HANDHOLE
3	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
429	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1555	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1965	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1488	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2185	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1740	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
28	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
28	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
42	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9	EACH	INDUCTIVE LOOP DETECTOR
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
* 2	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8	EACH	REMOVE FXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1719	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
770	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 363	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
1	EACH	MICROWAVE VEHICLE SENSOR (SMARTSENSOR ADVANCE)

* 100% COST TO VILLAGE OF ITASCA

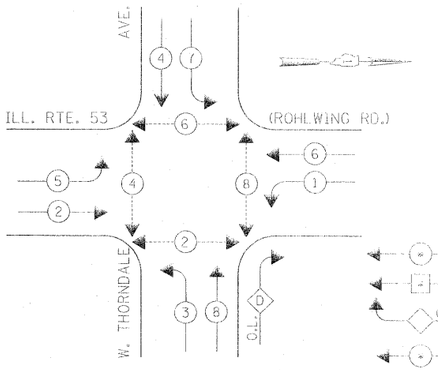
THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & W. THORNDALE AVE.



CABLE PLAN

(NOT TO SCALE)

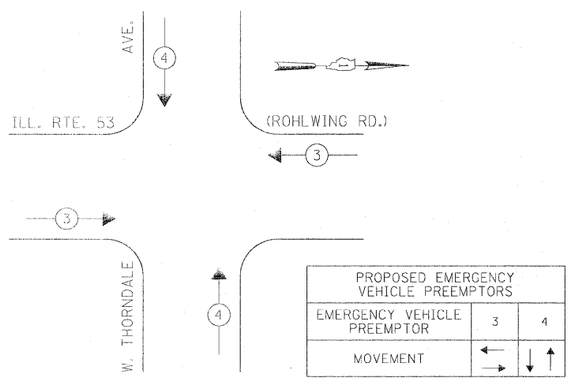
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	135	17	0.50	127.5
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW	20	135	12	0.10	24
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	601.5

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT W. THORNDALE AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	505
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

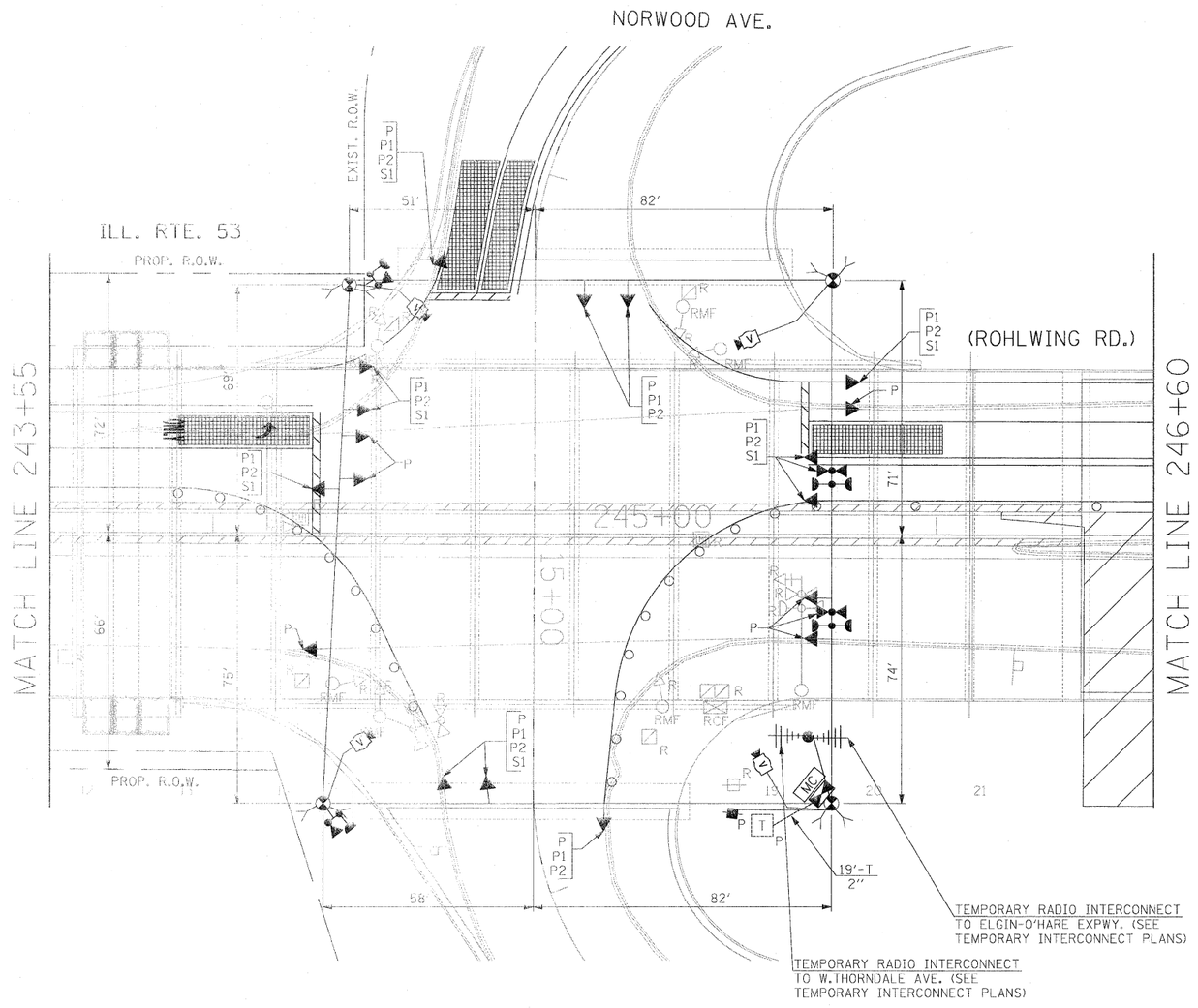
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

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

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

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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & NORWOOD AVE. ONE OF THE EXISTING LIGHT DETECTORS WHICH IS ALREADY SEPARATED SHALL BE DIVIDED, INCLUDING THE CONFIRMATION BEACON, FOR MOUNTING AS PROPOSED IN THE PLANS.



SIGNAL HEAD PLACEMENTS FOR STAGES: PRE-STAGE, P1, P2, AND S1.

NOTE 1: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION PRESTAGE - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

NOTE 2: THE EAST LEG IS CLOSED TO TRAFFIC DURING CONSTRUCTION STAGE S1. THEREFORE, THE SIGNAL HEADS PLACEMENT FOR WESTBOUND TRAFFIC IS NOT SHOWN FOR STAGE S1.

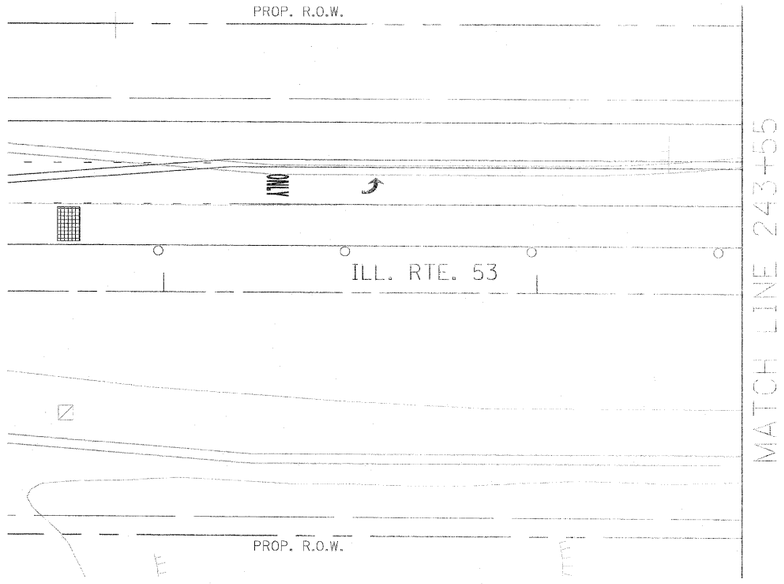
⚠ Rev. 6-8-11

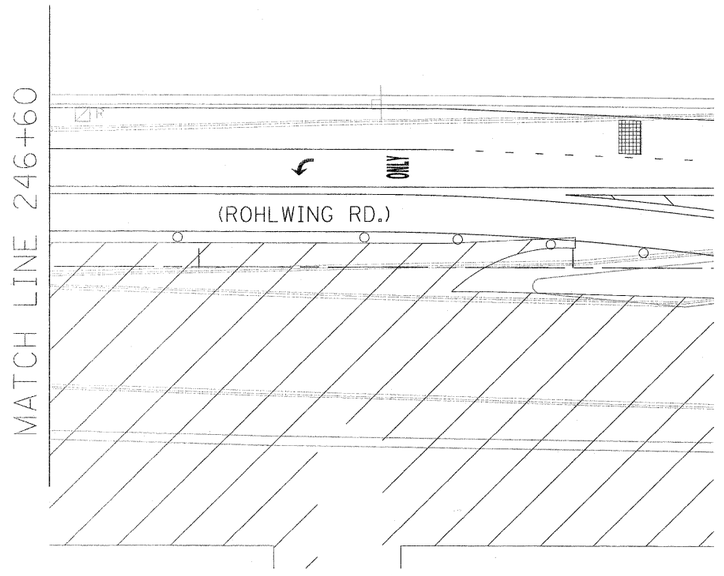
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORWOOD AVE. PRE STAGE, PRE STAGE SUBSTAGE 1, PRE STAGE SUBSTAGE 2, AND STAGE 1 (SHEET 1 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	506
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





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

⚠ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORWOOD AVE. PRE STAGE, PRE STAGE SUBSTAGE 1, PRE STAGE SUBSTAGE 2, AND STAGE 1 (SHEET 2 OF 4).

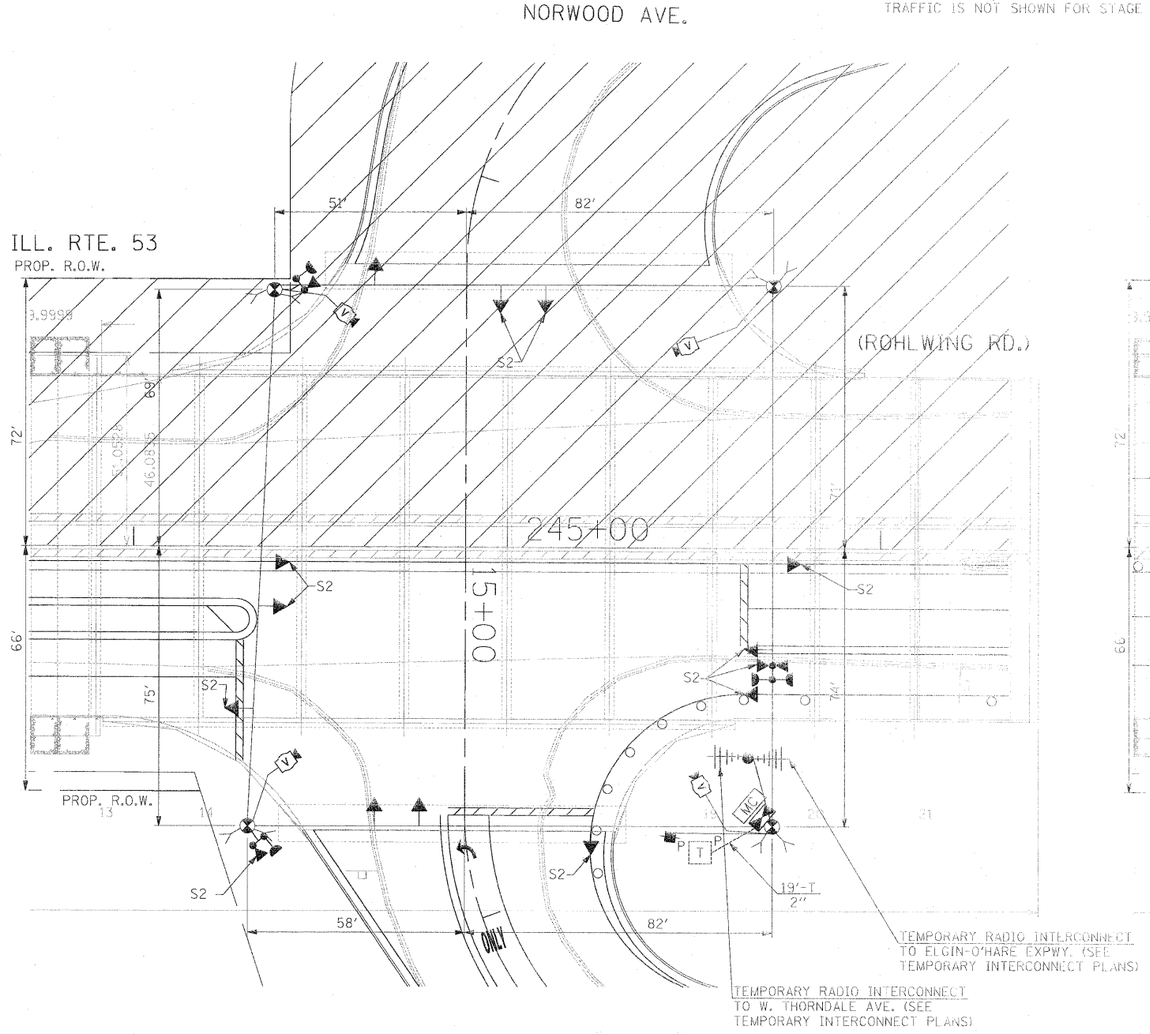
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	507
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

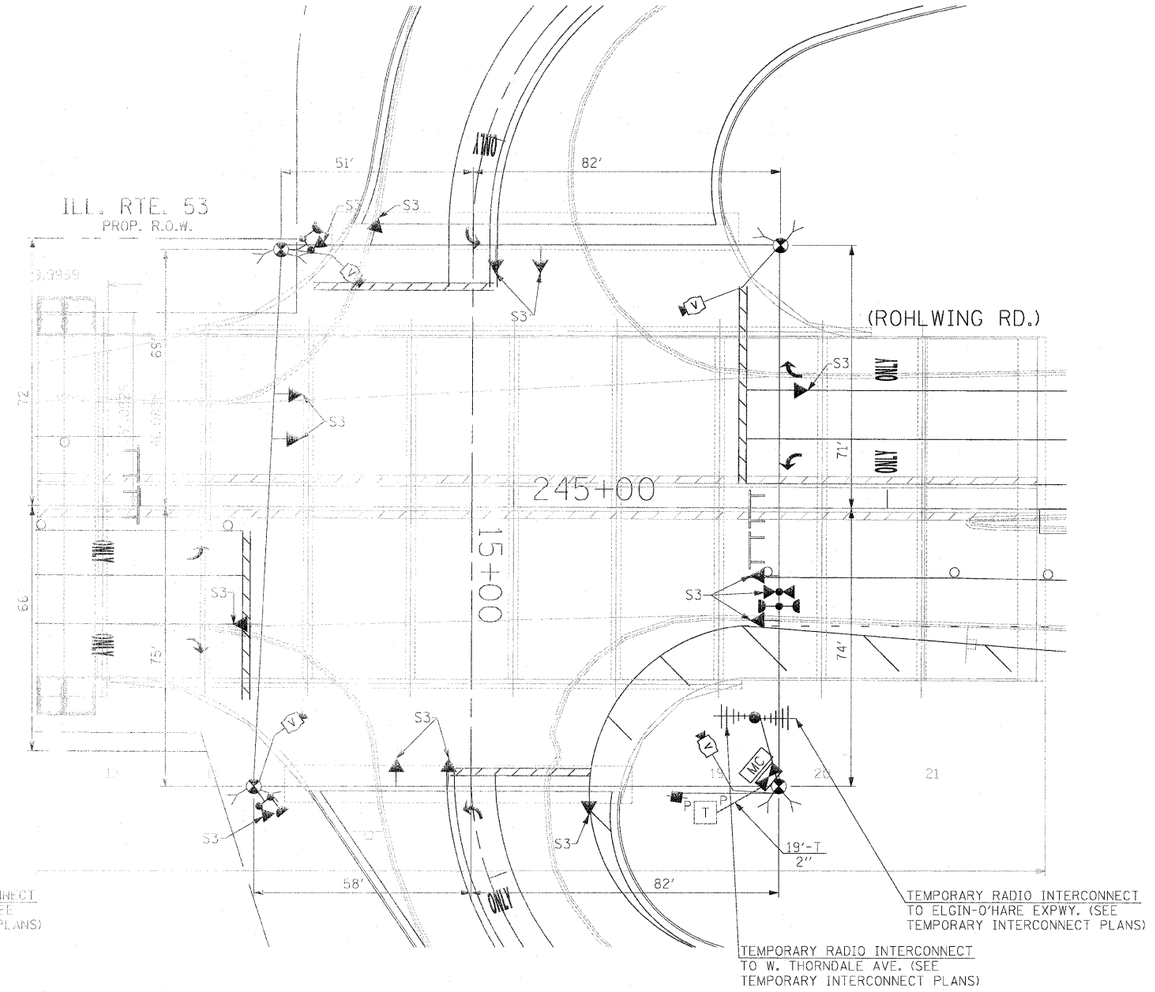
NOTE 1: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION PRESTAGE + SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

NOTE 2: THE SIGNAL HEAD PLACEMENT FOR NORWOOD AVENUE FOR CONSTRUCTION STAGES S2 AND S3 SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR DEPENDING ON THE CONSTRUCTION STAGING USED BY THE CONTRACTOR FOR NORWOOD AVENUE.

NOTE 3: THE WEST LEG IS CLOSED TO TRAFFIC DURING CONSTRUCTION STAGE S2. THEREFORE, THE SIGNAL HEADS PLACEMENT FOR EASTBOUND TRAFFIC IS NOT SHOWN FOR STAGE 2.



SIGNAL HEAD PLACEMENTS FOR STAGE S2



SIGNAL HEAD PLACEMENTS FOR STAGE S3

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

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

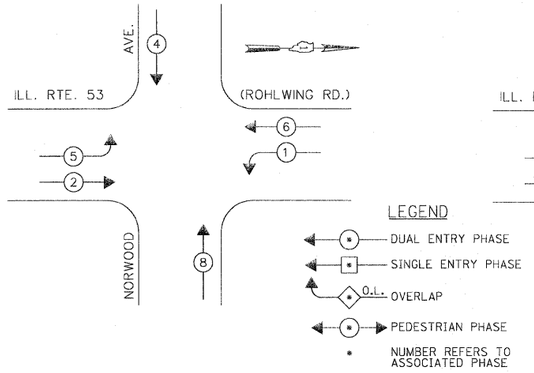
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORWOOD AVE.
STAGE 2 AND STAGE 3 (SHEET 3 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	508
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

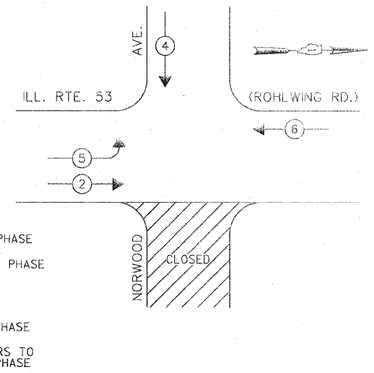
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: PRE-STAGE, P1, P2, S3,
AND AFTER PROPOSED GEOMETRICS ARE BUILT

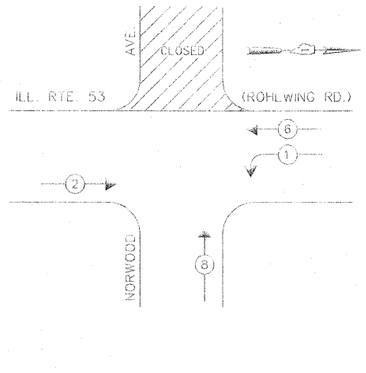
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

STAGE 1

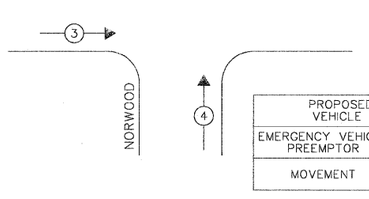
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

STAGE 2

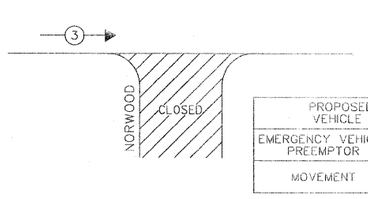
EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

STAGES: PRE-STAGE, P1, P2, S3,
AND AFTER PROPOSED GEOMETRICS ARE BUILT

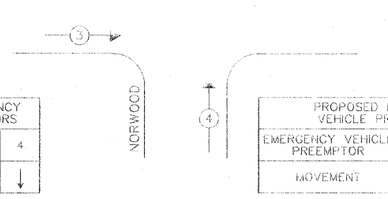
EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

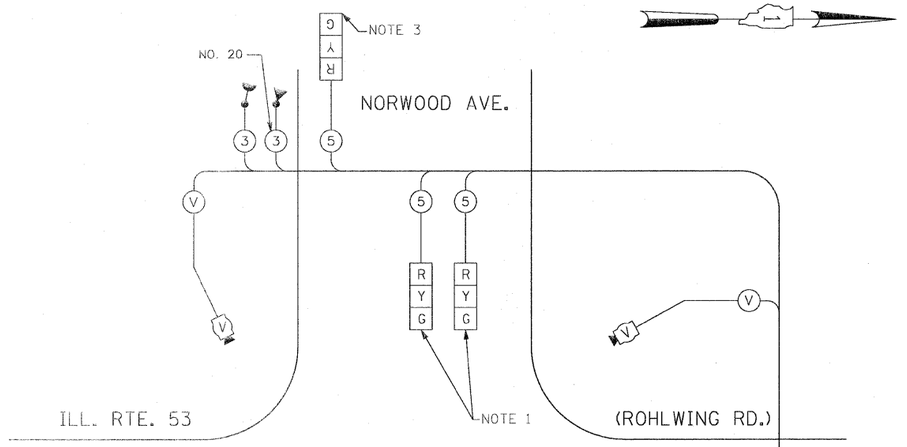
STAGE 1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

STAGE 2



TEMPORARY CABLE PLAN

(NOT TO SCALE)

STAGES: PRE-STAGE, P1, P2, S1, S2, S3,
AND AFTER PROPOSED GEOMETRICS ARE BUILT

A MASTER CONTROLLER WILL BE SUPPLIED AT THIS INTERSECTION, THE COST OF WHICH SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

THE TELEPHONE SERVICE MUST BE MAINTAINED AT THIS TEMPORARY TRAFFIC SIGNAL INSTALLATION. THIS ITEM OF WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

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

Rev. 6-8-11

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

TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.6
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	481.6

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

*ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

NOTE 1: THE SIGNAL HEADS FOR THE WESTBOUND TRAFFIC SHALL BE DISCONNECTED AND BAGGED DURING CONSTRUCTION STAGE 1 WHEN EAST LEG IS CLOSED TO TRAFFIC.

NOTE 2: THE GREEN AND YELLOW LEFT TURN ARROW INDICATIONS FOR SOUTHBOUND TO EASTBOUND TRAFFIC SHALL BE DISCONNECTED AND BAGGED DURING CONSTRUCTION STAGE 1.

NOTE 3: THE SIGNAL HEADS FOR THE EASTBOUND TRAFFIC SHALL BE DISCONNECTED AND BAGGED DURING CONSTRUCTION STAGE 2 WHEN WEST LEG IS CLOSED TO TRAFFIC.

NOTE 4: THE GREEN AND YELLOW LEFT TURN ARROW INDICATIONS FOR NORTHBOUND TO WESTBOUND TRAFFIC SHALL BE DISCONNECTED AND BAGGED DURING CONSTRUCTION STAGE 2.

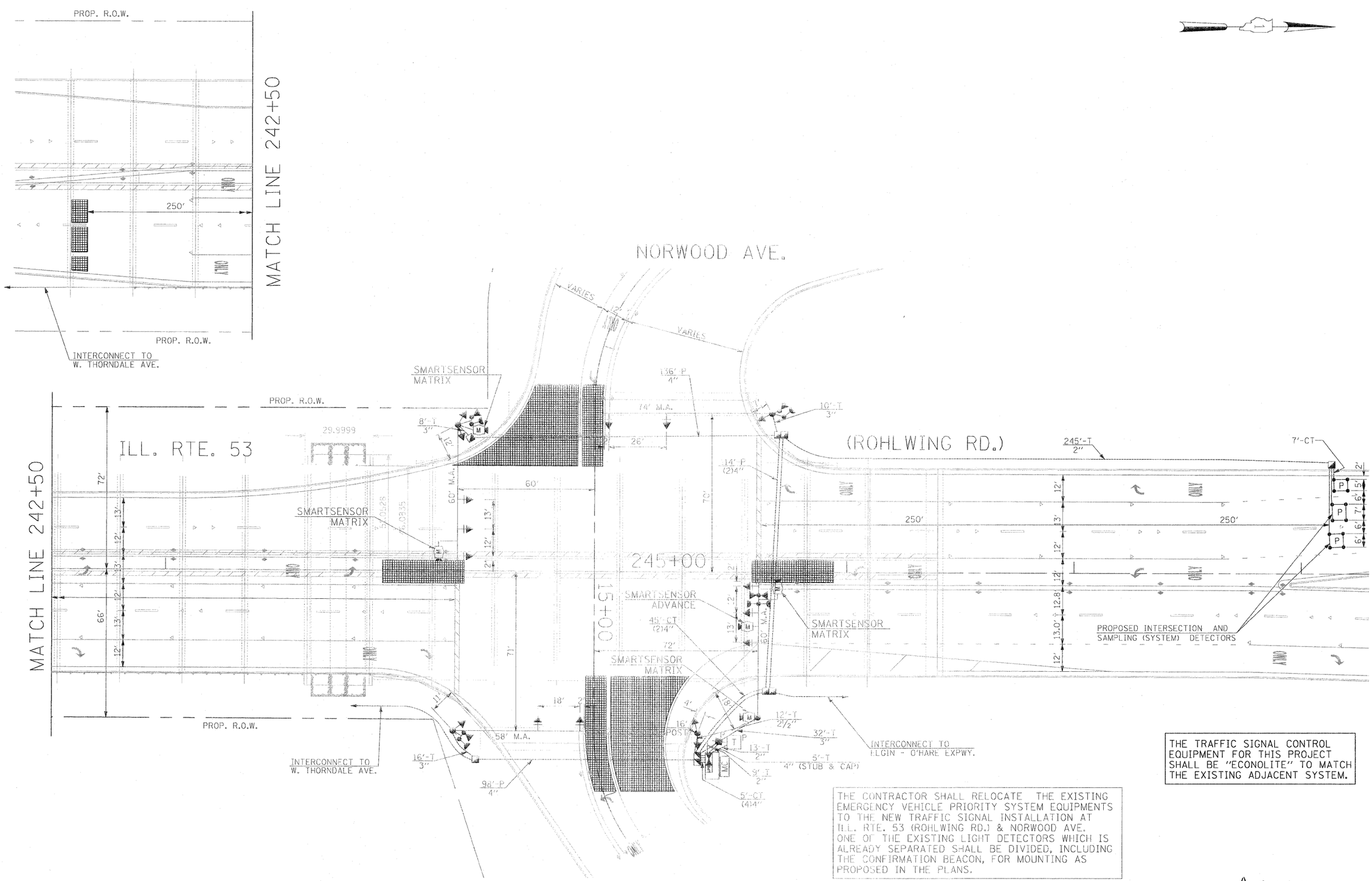
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORWOOD AVE. PRE-STAGE,
STAGE 1, STAGE 2, AND STAGE 3 (SHEET 4 OF 4).

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	509
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



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

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & NORWOOD AVE. ONE OF THE EXISTING LIGHT DETECTORS WHICH IS ALREADY SEPARATED SHALL BE DIVIDED, INCLUDING THE CONFIRMATION BEACON, FOR MOUNTING AS PROPOSED IN THE PLANS.

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORWOOD AVE.

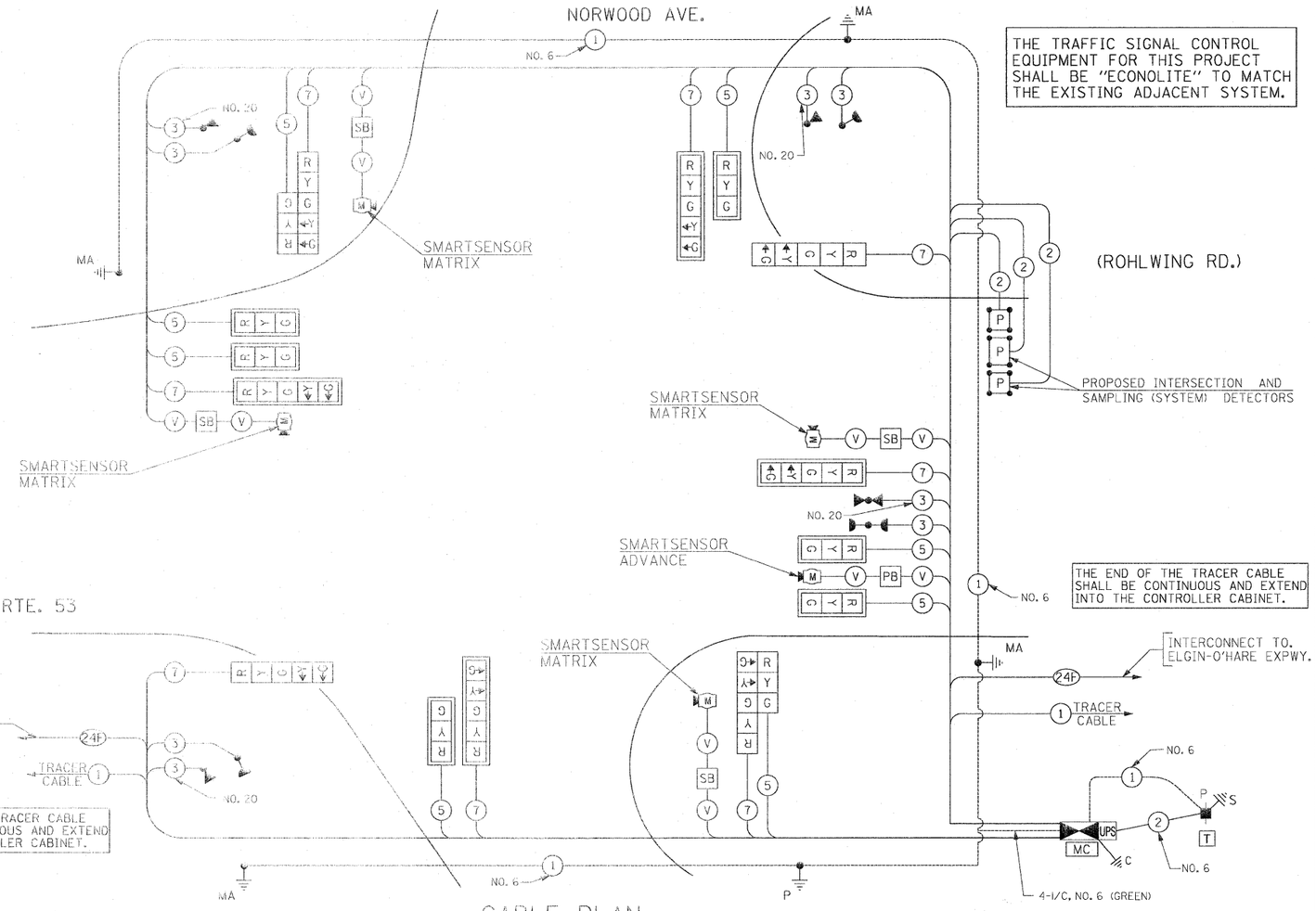
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	510
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

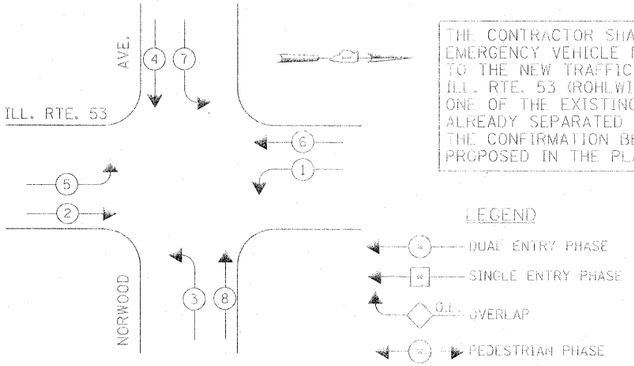
QUANTITY	UNIT	ITEM
31.5	SQ FT	SIGN PANEL - TYPE 1
267	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
12	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
66	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
115	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
462	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
3	EACH	HANDHOLE
3	EACH	DOUBLE HANDHOLE
371	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
* 930	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2015	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1950	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1377	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
29	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 74 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
88	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
3	EACH	INDUCTIVE LOOP DETECTOR
* 1	EACH	LIGHT DETECTOR
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
* 3	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	FOOT	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8	FOOT	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
113	EACH	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
770	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 930	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
4	EACH	MICROWAVE VEHICLE SENSOR (SMARTSENSOR MATRIX)
1	EACH	MICROWAVE VEHICLE SENSOR (SMARTSENSOR ADVANCE)

* 100% COST TO VILLAGE OF ITASCA



CABLE PLAN
(NOT TO SCALE)

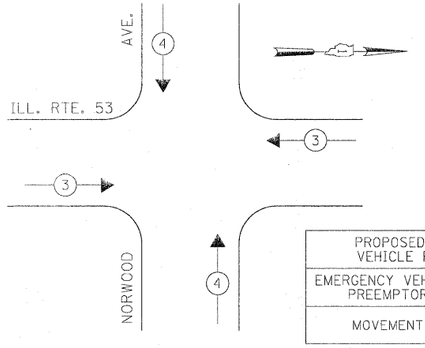
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & NORWOOD AVE. ONE OF THE EXISTING LIGHT DETECTORS WHICH IS ALREADY SEPARATED SHALL BE DIVIDED, INCLUDING THE CONFIRMATION BEACON, FOR MOUNTING AS PROPOSED IN THE PLANS.

EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND
SB = SPLICE BOX
PB = POLE BOX

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	ZOPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	16	135	12	0.10	19.2
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	415.2

VILLAGE OF ITASCA
550 WEST IRVING PARK ROAD
ITASCA, ILLINOIS 60143-1795

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

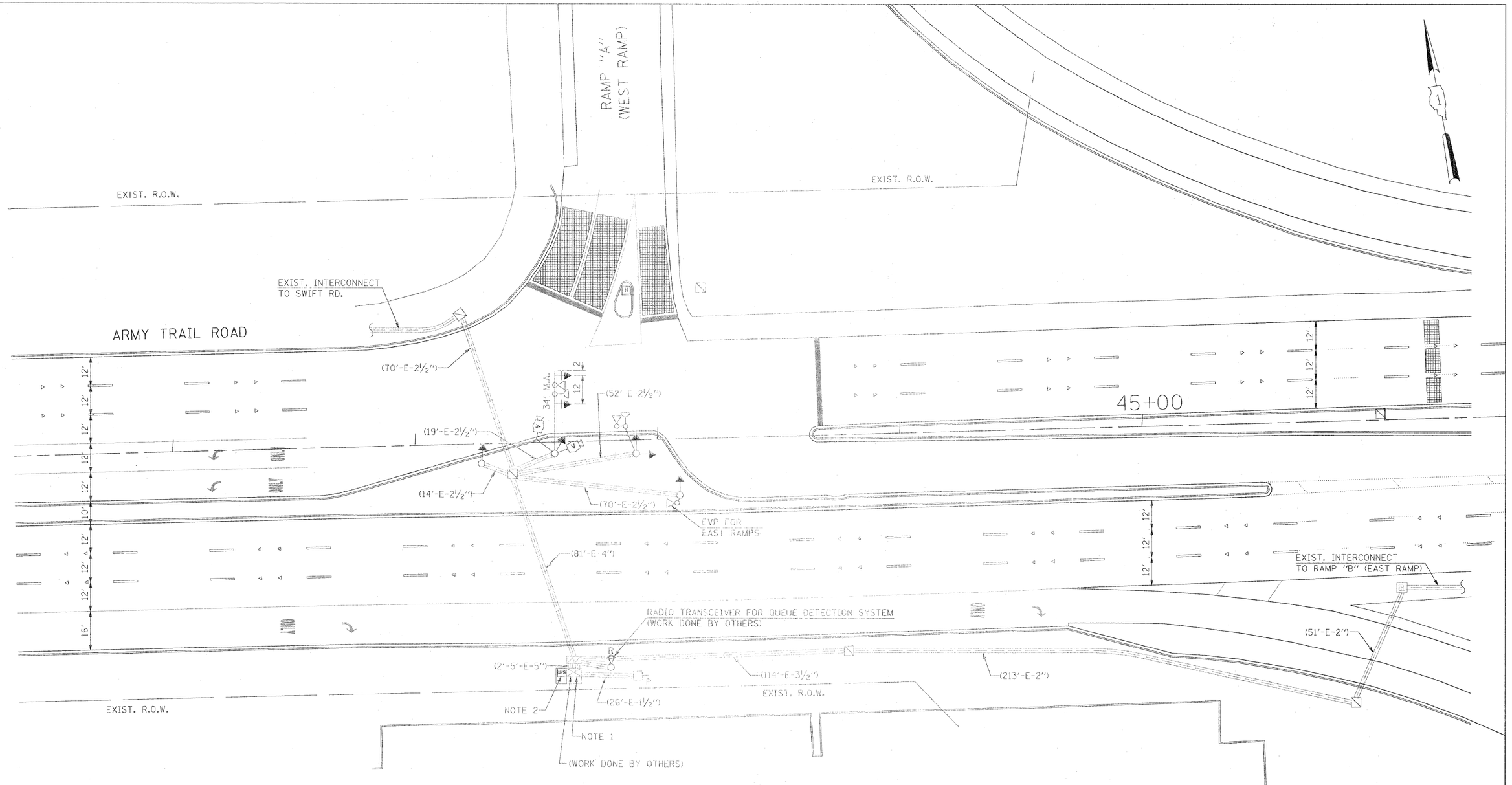
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREMEEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 53 (ROHLWING RD.) AT NORWOOD AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	511
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

1 Rev. 6-8-11



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

2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE

NOTE 1: THE EXISTING 3C NO. 20 CABLE SHALL BE USED FOR TEMPORARY LIGHT DETECTOR TO BE MOUNTED ON THE TEMPORARY SIGNAL AT THE EAST RAMPS FOR THE TRAFFIC SIGNAL INSTALLATION AT THE WEST RAMP. ADDITIONAL CABLE SHALL BE SPLICED AS NEEDED. AFTER THE PERMANENT TRAFFIC SIGNAL INSTALLATION AT THE EAST RAMPS AND ARMY TRAIL ROAD IS OPERATIONAL, THE EXISTING 3C NO. 20 CABLE USED AS A TEMPORARY CABLE SHALL BE REMOVED (TOTAL 1701 FT.). THE REMOVAL OF THE EXISTING CABLE SHALL BE PAID FOR SEPARATELY AS "REMOVE EXISTING CABLE FROM CONDUIT".

NOTE 2: A P.C.C. APRON SIDEWALK, FIVE (5) INCHES THICK, SHALL BE PROVIDED FOR THE UNINTERRUPTIBLE POWER SUPPLY IN ACCORDANCE WITH THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF "UNINTERRUPTIBLE POWER SUPPLY" AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE SAME.

Δ Rev. 6-8-11

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
ARMY TRAIL RD. AT RAMP "A" (WEST RAMP)

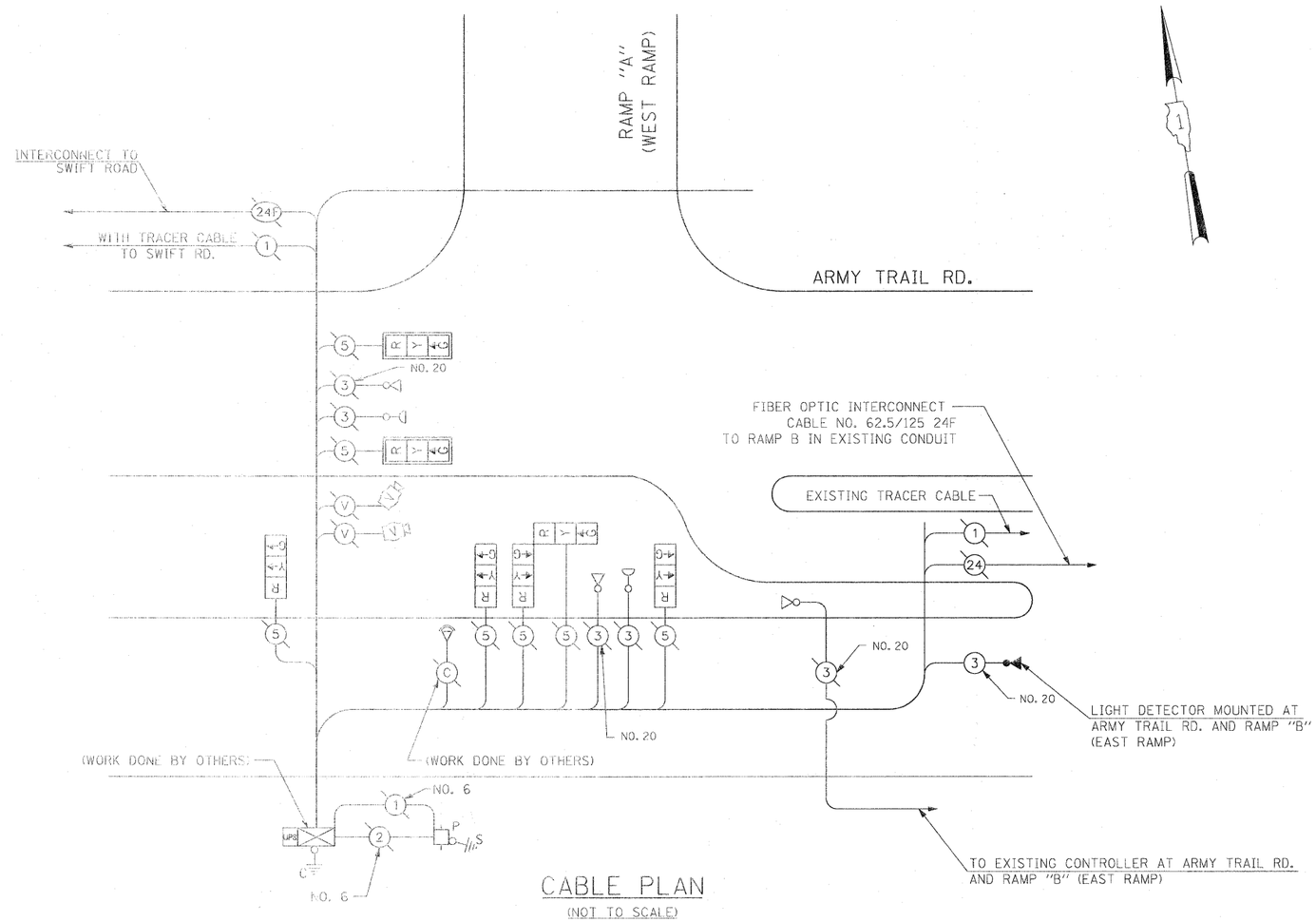
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	512
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
* 1	EACH	LIGHT DETECTOR
1701	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
* 1772	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

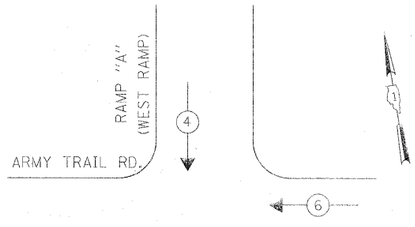
* 100% COST TO VILLAGE OF ADDISON



CABLE PLAN

(NOT TO SCALE)

CONTROLLER SEQUENCE



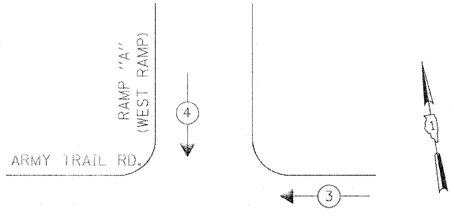
PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. OVERLAP
- PEDESTRIAN PHASE

* NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	7	135	17	0.50	59.5
(YELLOW)	7	135	25	0.25	43.75
(GREEN)	7	135	15	0.25	26.5
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	379.5

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

Δ Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUANTITIES
ARMY TRAIL RD. AT RAMP "A" (WEST RAMP)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	513
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

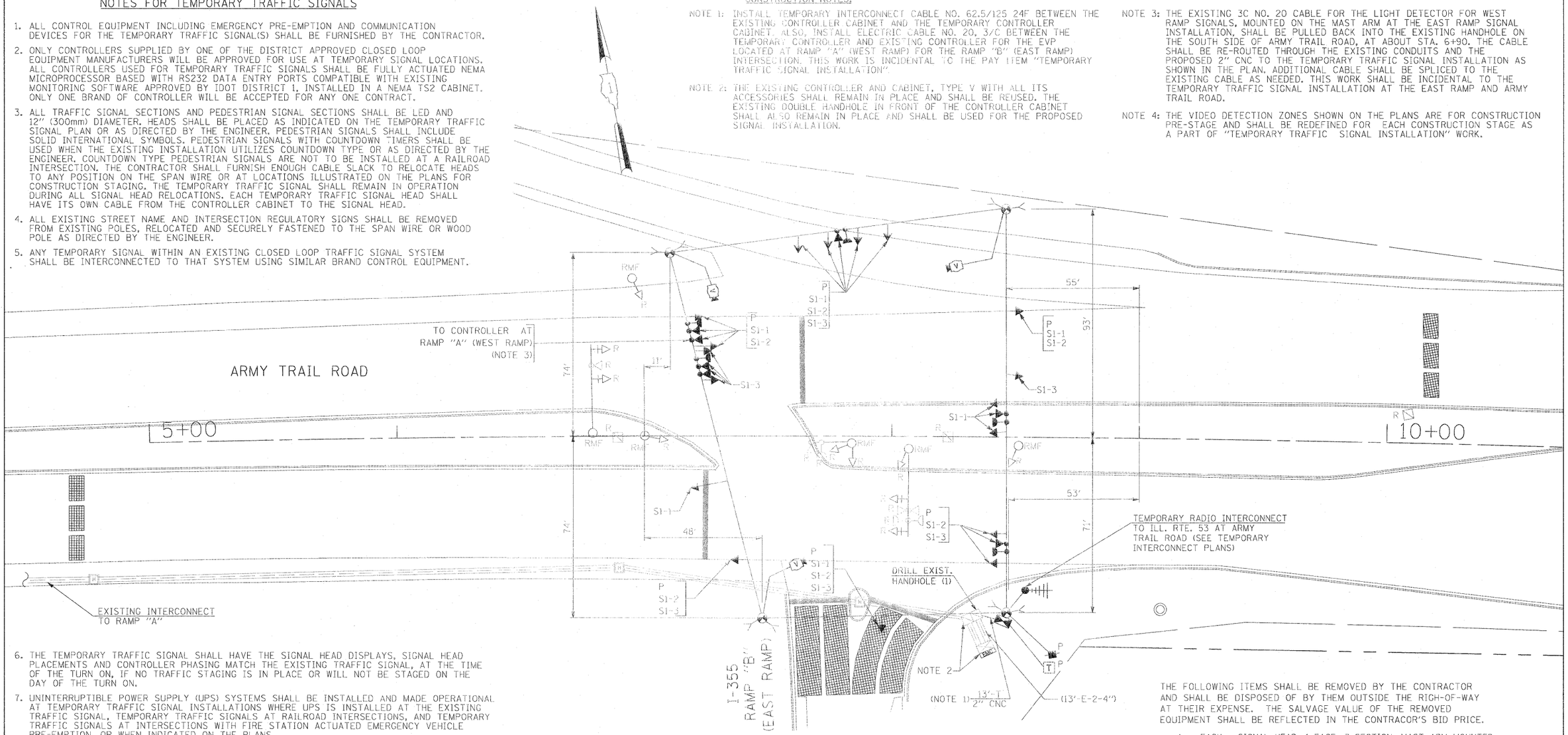
CONSTRUCTION NOTES:

NOTE 1: INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 24F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET. ALSO, INSTALL ELECTRIC CABLE NO. 20, 3/C BETWEEN THE TEMPORARY CONTROLLER AND EXISTING CONTROLLER FOR THE EVP LOCATED AT RAMP "A" (WEST RAMP) FOR THE RAMP "B" (EAST RAMP) INTERSECTION. THIS WORK IS INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

NOTE 2: THE EXISTING CONTROLLER AND CABINET, TYPE V WITH ALL ITS ACCESSORIES SHALL REMAIN IN PLACE AND SHALL BE REUSED. THE EXISTING DOUBLE HANDHOLE IN FRONT OF THE CONTROLLER CABINET SHALL ALSO REMAIN IN PLACE AND SHALL BE USED FOR THE PROPOSED SIGNAL INSTALLATION.

NOTE 3: THE EXISTING 3C NO. 20 CABLE FOR THE LIGHT DETECTOR FOR WEST RAMP SIGNALS, MOUNTED ON THE MAST ARM AT THE EAST RAMP SIGNAL INSTALLATION, SHALL BE PULLED BACK INTO THE EXISTING HANDHOLE ON THE SOUTH SIDE OF ARMY TRAIL ROAD, AT ABOUT STA. 6+90. THE CABLE SHALL BE RE-ROUTED THROUGH THE EXISTING CONDUITS AND THE PROPOSED 2" CNC TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AS SHOWN IN THE PLAN. ADDITIONAL CABLE SHALL BE SPLICED TO THE EXISTING CABLE AS NEEDED. THIS WORK SHALL BE INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AT THE EAST RAMP AND ARMY TRAIL ROAD.

NOTE 4: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION PRE-STAGE AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



SIGNAL HEAD PLACEMENTS FOR
STAGES: PRE-STAGE, S1-1, S1-2, AND S1-3.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
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.

THE EXISTING TELEPHONE SERVICE AND EXISTING MASTER CONTROLLER SHALL BE MAINTAINED ON THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE COST OF WHICH SHALL BE CONSIDERED AS INCIDENTAL TO "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

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

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

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

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

AGENCY: VILLAGE OF ADDISON

CONTACT INFORMATION:
RUDY ESPEDIDO
VILLAGE OF ADDISON
ENGINEERNG DEPARTMENT
PHONE: (630)693-7533

3	EACH	LIGHT DETECTOR

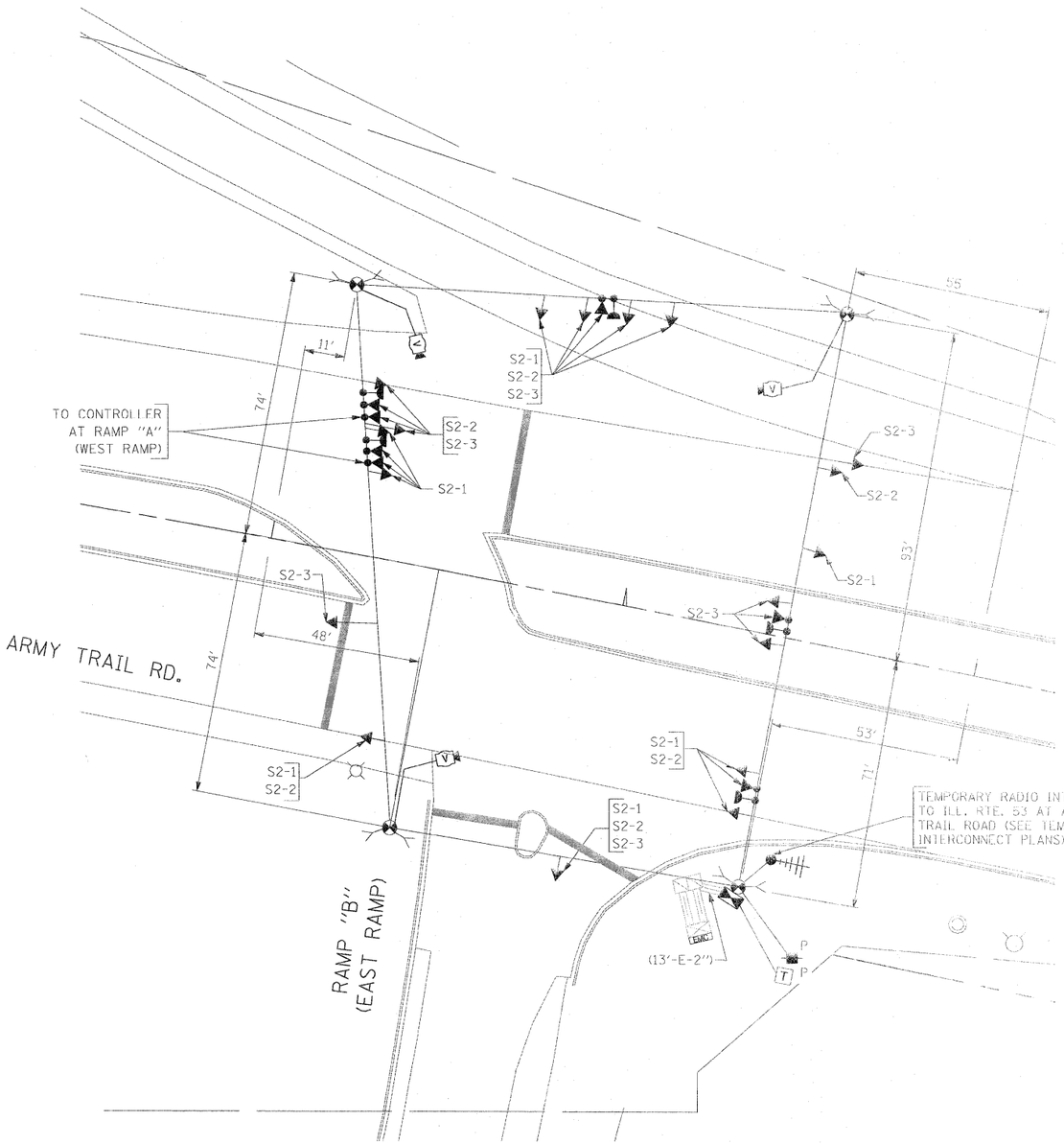
Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

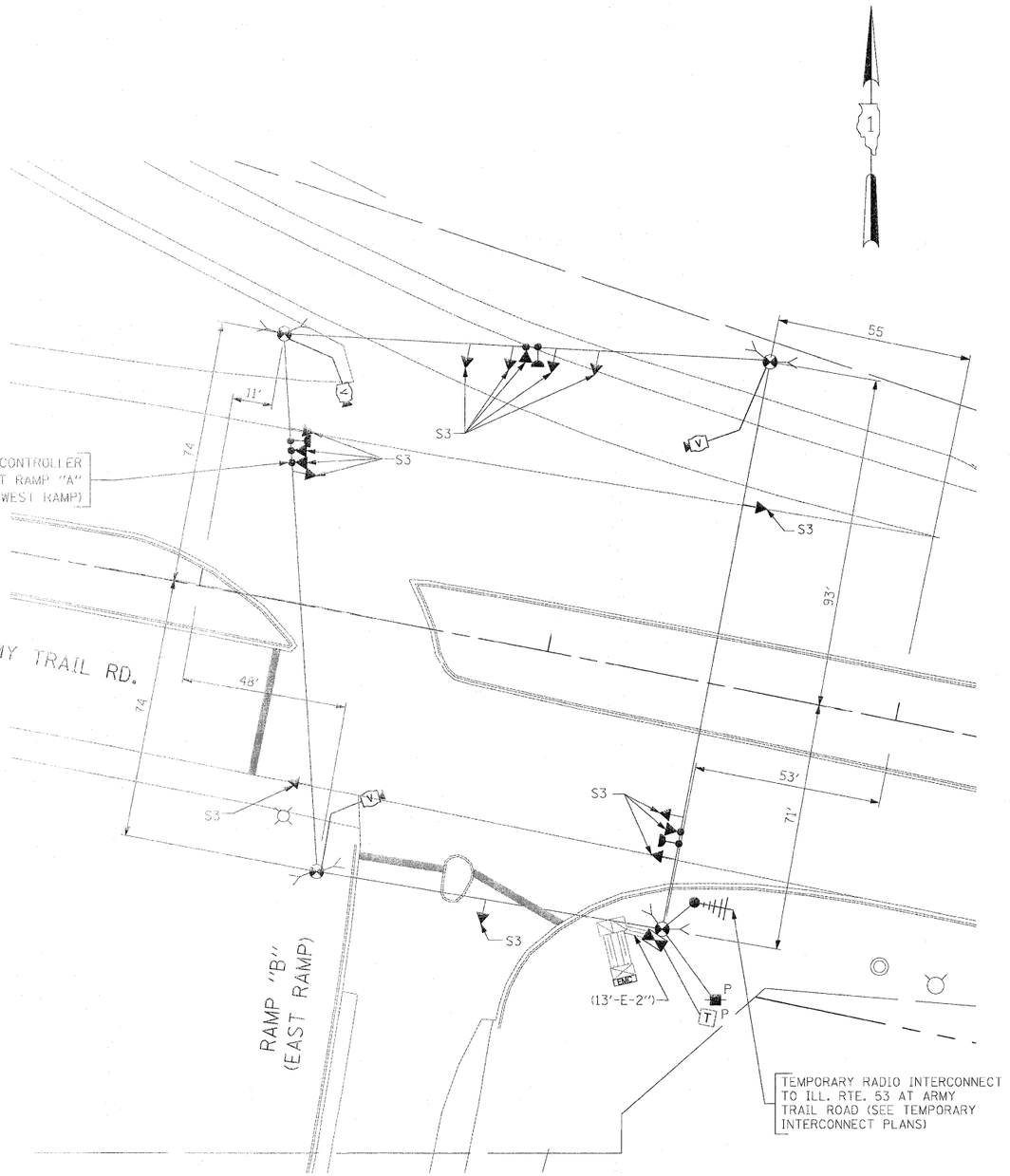
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ARMY TRAIL RD. AT RAMP "B" (EAST RAMP) PRE STAGE AND
STAGE 1 (SHEET 1 OF 3)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	514
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



SIGNAL HEAD PLACEMENTS FOR
STAGES: S2-1, S2-2, AND S2-3.



SIGNAL HEAD PLACEMENTS FOR
STAGE 3.

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

⚠ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

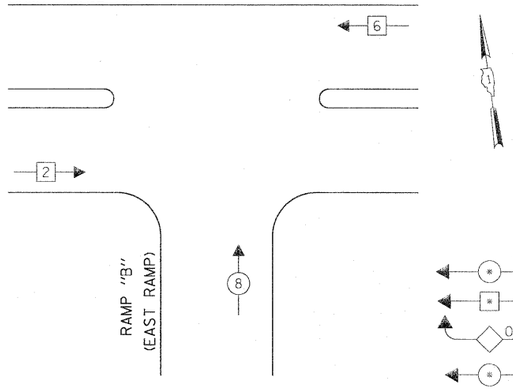
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ARMY TRAIL RD. AT RAMP "B" (EAST RAMP) STAGE 2 AND STAGE 3 (SHEET 2 OF 3)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	515
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE

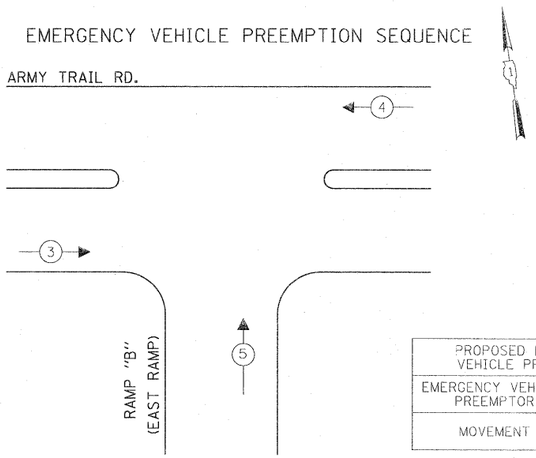


LEGEND

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

TEMPORARY PHASE DESIGNATION DIAGRAM
CONSTRUCTION SEQUENCE FOR
PRE-CONSTRUCTION STAGE ONLY

EMERGENCY VEHICLE PREEMPTION SEQUENCE



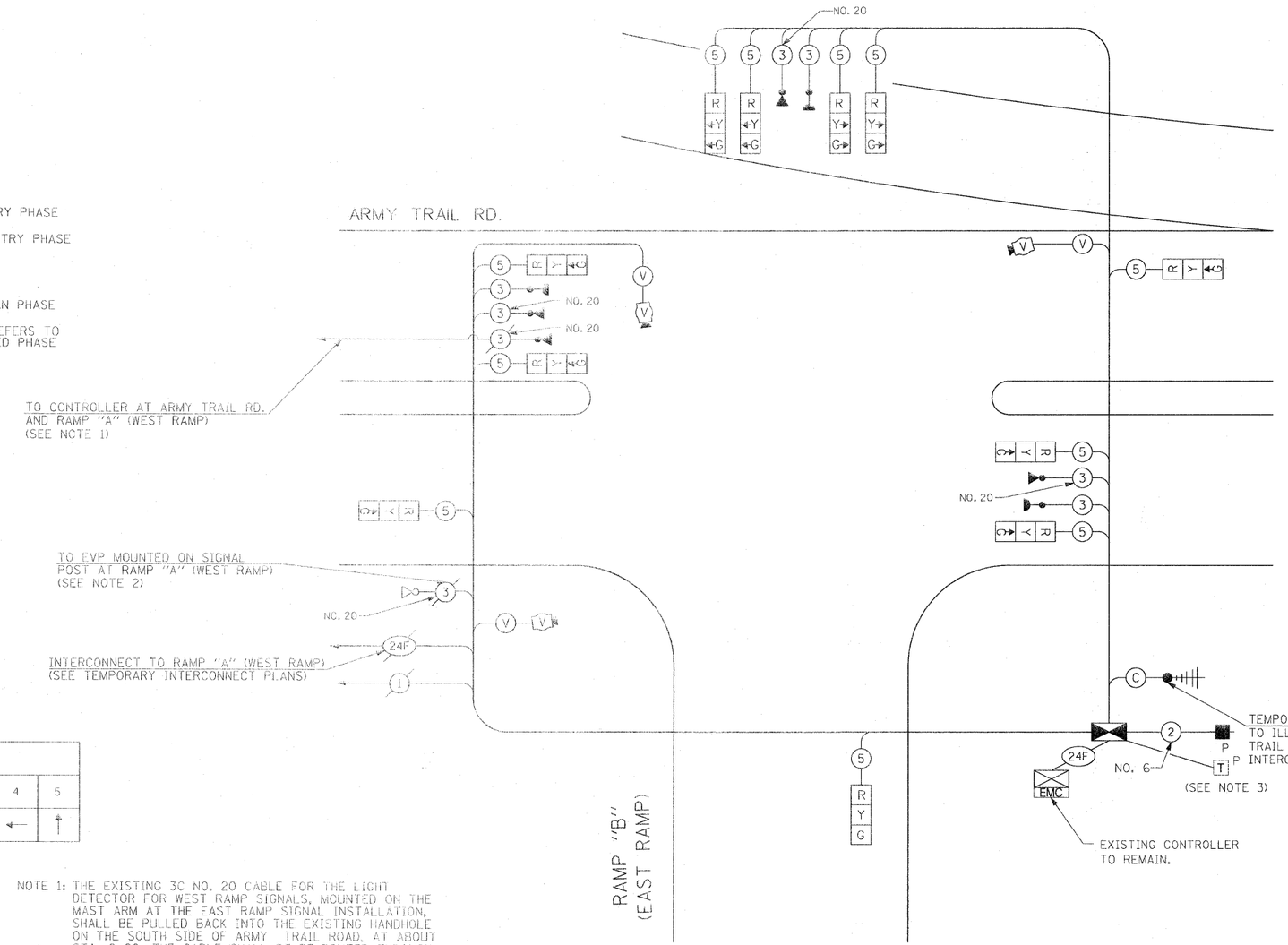
PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑

EMERGENCY VEHICLE PREEMPTION SEQUENCE
FOR PRE-CONSTRUCTION STAGE ONLY

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	X WATTAGE INCAND.	WATTAGE LED	X %OPERATION	
SIGNAL (RED)	11	135	17	0.50	93.5
(YELLOW)	11	135	25	0.25	68.75
(GREEN)	11	135	15	0.25	41.25
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	453.5

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

ENERGY SUPPLY CONTACT: ELLIE SARALLO
PHONE: (630) 424 5124
COMPANY: COMMONWEALTH EDISON



CABLE PLAN
(NOT TO SCALE)

NOTE 1: THE EXISTING 3C NO. 20 CABLE FOR THE LIGHT DETECTOR FOR WEST RAMP SIGNALS, MOUNTED ON THE MAST ARM AT THE EAST RAMP SIGNAL INSTALLATION, SHALL BE PULLED BACK INTO THE EXISTING HANDHOLE ON THE SOUTH SIDE OF ARMY TRAIL ROAD, AT ABOUT STA. 6+90. THE CABLE SHALL BE RE-ROUTED THROUGH THE EXISTING CONDUITS AND THE PROPOSED 2" CNC TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AS SHOWN IN THE PLAN. ADDITIONAL CABLE SHALL BE SPLICED TO THE EXISTING CABLE AS NEEDED. THIS WORK SHALL BE INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AT THE EAST RAMP AND ARMY TRAIL ROAD.

NOTE 2: INSTALL 2C NO. 20 CABLE BETWEEN EXISTING CONTROLLER AND TEMPORARY CONTROLLER FOR THE EXISTING LIGHT DETECTOR MOUNTED AT RAMP "A" (WEST RAMP) SIGNAL INSTALLATION FOR THE SIGNAL INSTALLATION AT RAMP "B" (EAST RAMP). THIS WORK WILL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

NOTE 3: THE TELEPHONE SERVICE MUST BE MAINTAINED AT THIS TEMPORARY TRAFFIC SIGNAL INSTALLATION. THIS ITEM OF WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

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

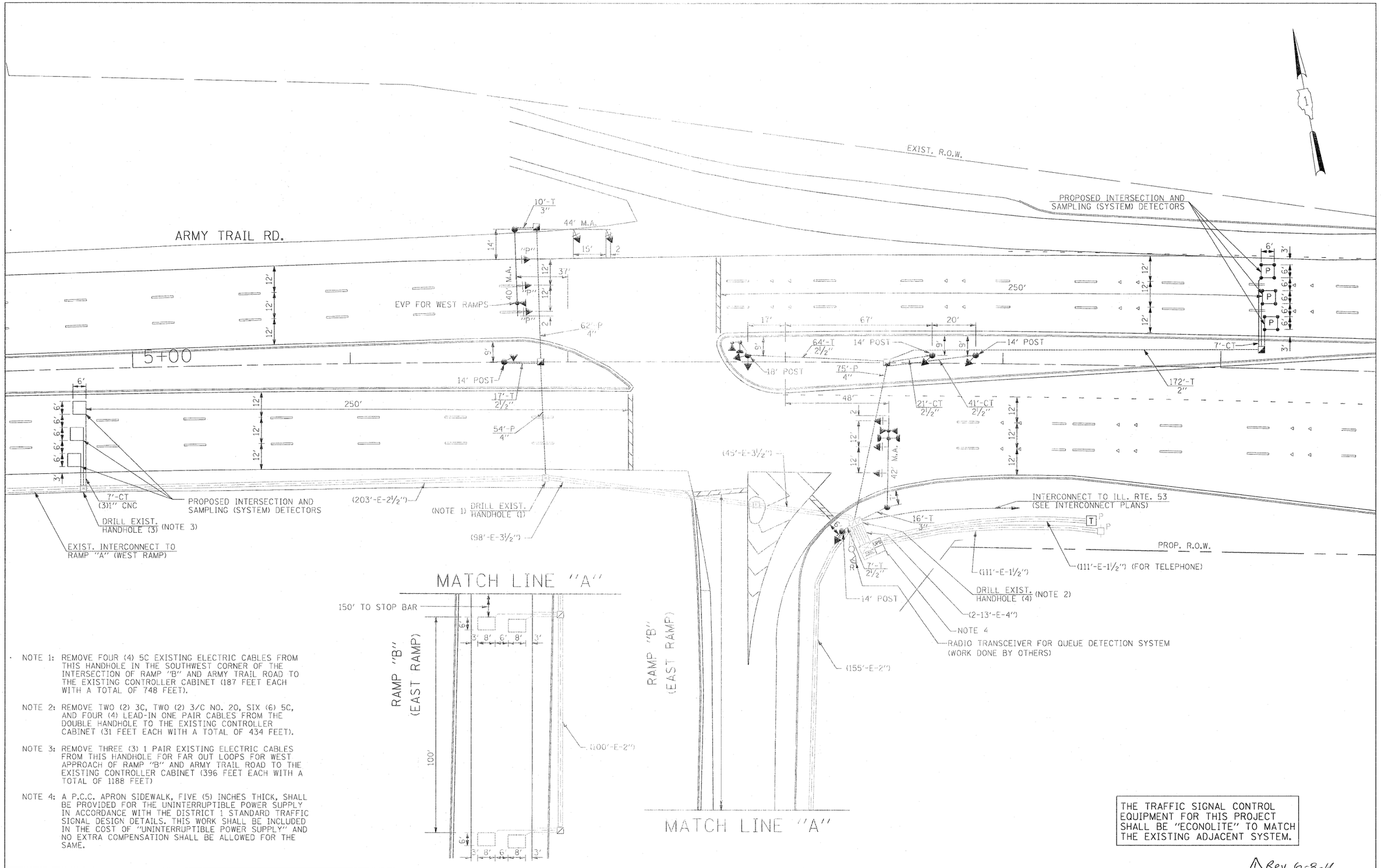
⚠ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MAA, EA	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -	
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -	

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ARMY TRAIL ROAD AT RAMP "B" (EAST RAMP) (SHEET 3 OF 3)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	516
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE 1: REMOVE FOUR (4) 5C EXISTING ELECTRIC CABLES FROM THIS HANDHOLE IN THE SOUTHWEST CORNER OF THE INTERSECTION OF RAMP "B" AND ARMY TRAIL ROAD TO THE EXISTING CONTROLLER CABINET (187 FEET EACH WITH A TOTAL OF 748 FEET).

NOTE 2: REMOVE TWO (2) 3C, TWO (2) 3/C NO. 20, SIX (6) 5C, AND FOUR (4) LEAD-IN ONE PAIR CABLES FROM THE DOUBLE HANDHOLE TO THE EXISTING CONTROLLER CABINET (31 FEET EACH WITH A TOTAL OF 434 FEET).

NOTE 3: REMOVE THREE (3) 1 PAIR EXISTING ELECTRIC CABLES FROM THIS HANDHOLE FOR FAR OUT LOOPS FOR WEST APPROACH OF RAMP "B" AND ARMY TRAIL ROAD TO THE EXISTING CONTROLLER CABINET (396 FEET EACH WITH A TOTAL OF 1188 FEET)

NOTE 4: A P.C.C. APRON SIDEWALK, FIVE (5) INCHES THICK, SHALL BE PROVIDED FOR THE UNINTERRUPTIBLE POWER SUPPLY IN ACCORDANCE WITH THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF "UNINTERRUPTIBLE POWER SUPPLY" AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE SAME.

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

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ARMY TRAIL RD. AT RAMP "B" (EAST RAMP)
(SHEET 1 OF 2)

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

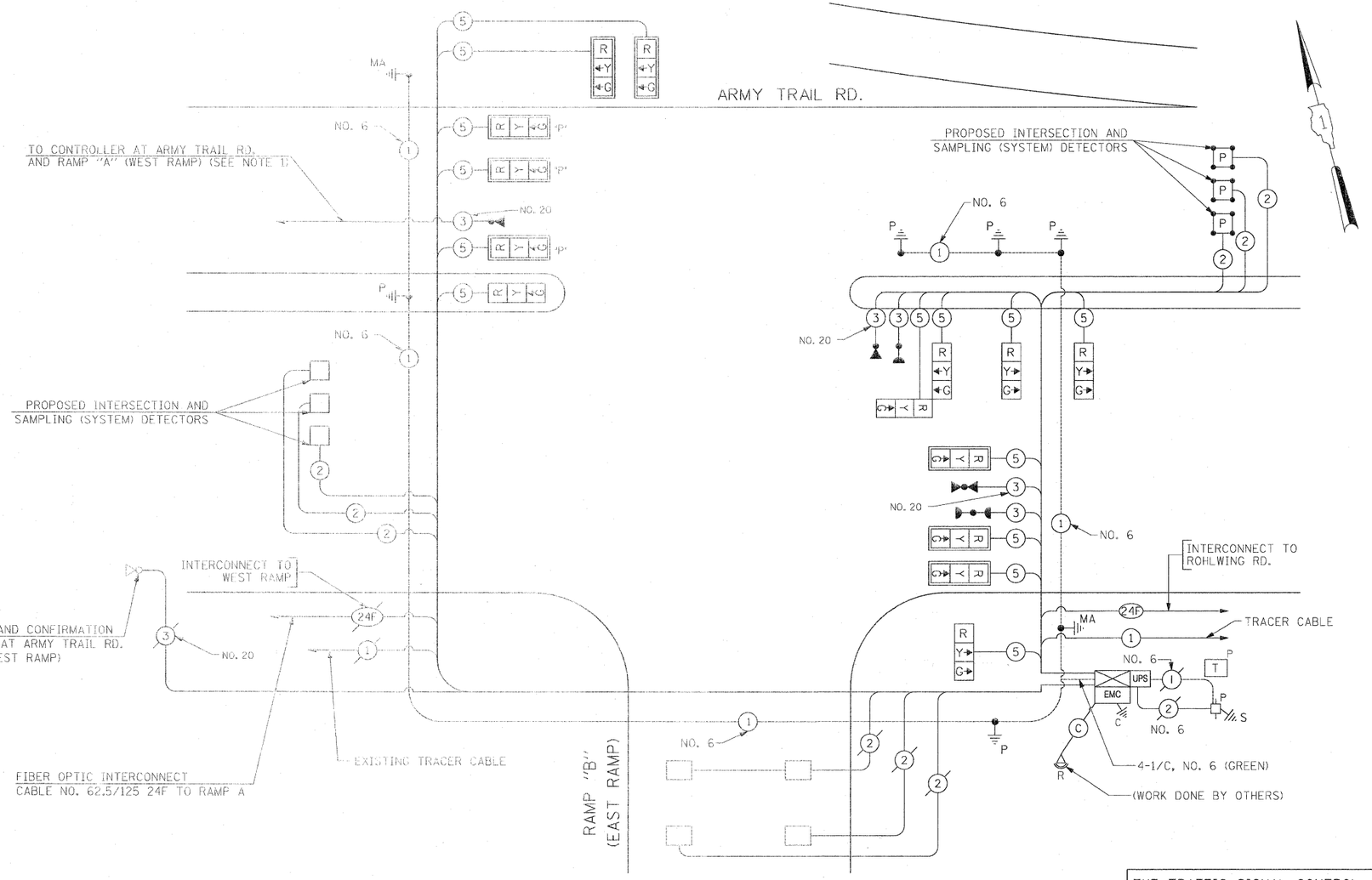
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	517
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
172	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
143	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
26	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
191	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
4	EACH	HANDHOLE
279	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
306	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3225	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2058	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 44 FT.
20	FOOT	CONCRETE FOUNDATION, TYPE A
27	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
4	EACH	DRILL EXISTING HANDHOLE
3	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION MAST ARM MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
117	FOOT	DETECTOR LOOP, TYPE I
* 2	EACH	LIGHT DETECTOR
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
2370	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
6	EACH	REMOVE EXISTING CONCRETE FOUNDATION
117	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
3	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
699	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 306	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF ADDISON

NOTE 1: THE LIGHT DETECTOR WILL BE PAID FOR UNDER THE WEST RAMP PLANS.



CABLE PLAN

(NOT TO SCALE)

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

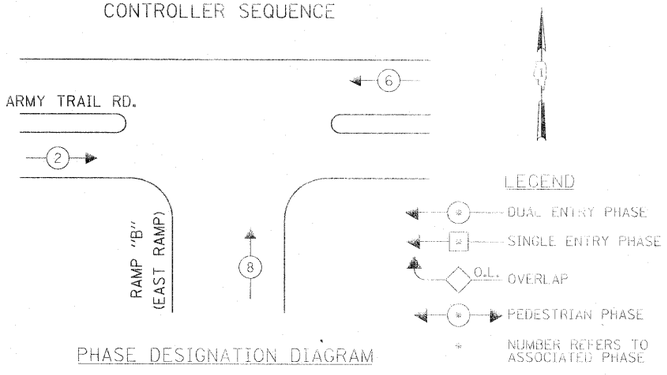
I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	359

VILLAGE OF ADDISON
1 FRIENDSHIP PLAZA
ADDISON, ILLINOIS 60101

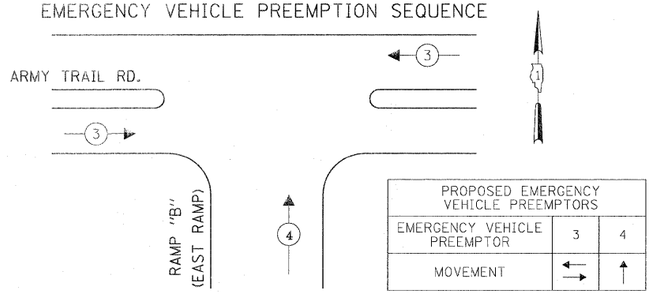
ENERGY SUPPLY CONTACT: ELLIE SARALLO
PHONE: (630) 424 5124
COMPANY: COMMONWEALTH EDISON

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

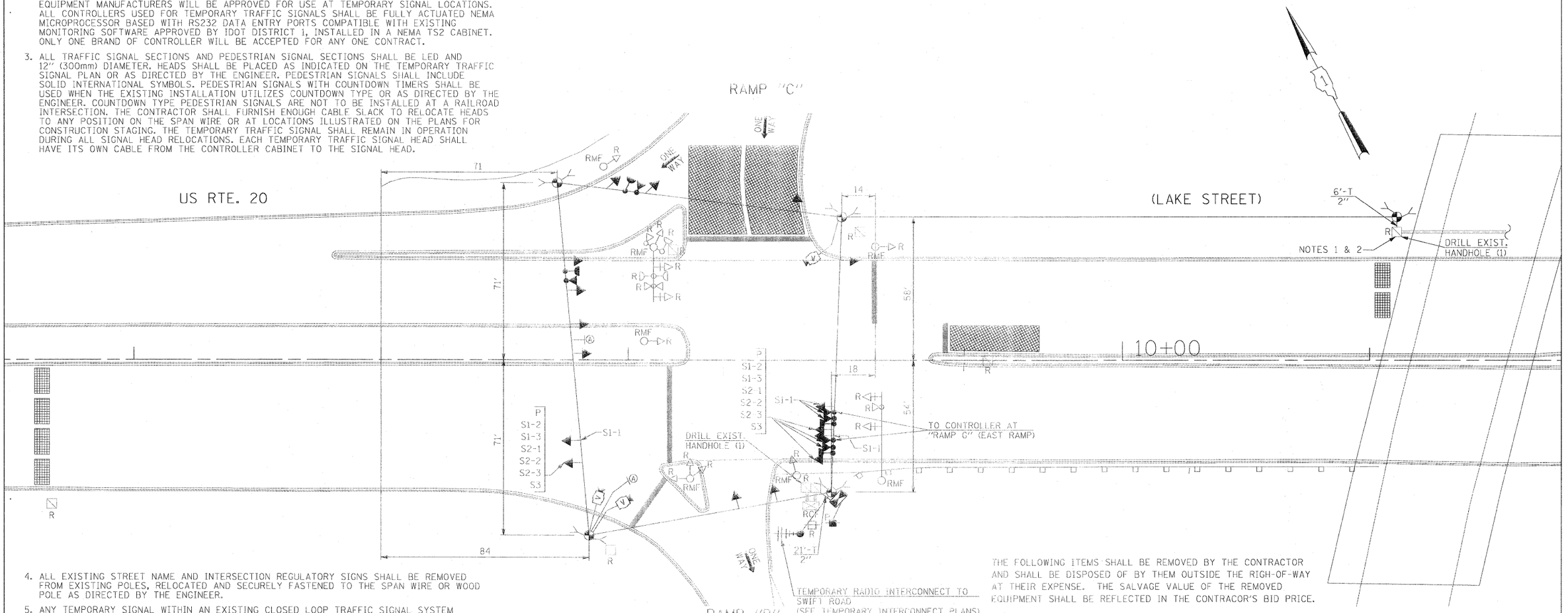
Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUANTITIES ARMY TRAIL ROAD AT RAMP "B" (EAST RAMP) (SHEET 2 OF 2)
		DRAWN - MAA, EA	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	518
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.



4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
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.

SIGNAL HEAD PLACEMENT FOR ALL STAGES

CONSTRUCTION NOTES:

NOTE 1: THE HANDHOLES AND CONDUITS CARRYING THE LIGHT DETECTOR AND/OR INTERCONNECT CABLES FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATIONS AT THE EAST AND WEST RAMPS OF I-355 SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT AND THE PROPOSED INTERCONNECT CABLES ARE IN PLACE AND IN OPERATION; SO AS TO MAINTAIN THE EXISTING TRAFFIC SIGNAL INTERCONNECT SYSTEM AND TEMPORARY EVP CABLES.

NOTE 2: DISCONNECT EXISTING FIBER OPTIC INTERCONNECT AND TRACER CABLES FROM THE EXISTING CONTROLLER, PULL THEM BACK INTO THE HANDHOLE NEAR THIS WOOD POLE AND RE-ROUTE THE INTERCONNECT CABLE AERIALLY TO THE PROPOSED TEMPORARY CONTROLLER. ADDITIONAL CABLE SHALL BE SPLICED, IF NEEDED. THIS WORK SHALL BE INCEDENTAL TO TEMPORARY TRAFFIC SIGNAL INSTALLATION AND NO SEPARATE COMPENSATION SHALL BE ALLOWED FOR THE SAME.

NOTE 3: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION PRE-STAGE AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

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

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

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

AGENCY: VILLAGE OF ADDISON

CONTACT INFORMATION:
RUDY ESPEDIDO
VILLAGE OF ADDISON
ENGINEERNG DEPARTMENT
PHONE: (630)693-7533

3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

Ⓐ
LEFT ON GREEN ARROW ONLY
R10-5,
24" X 30"
(2 REQUIRED)

Rev. 6-8-11

FILE NAME = $FILE_$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

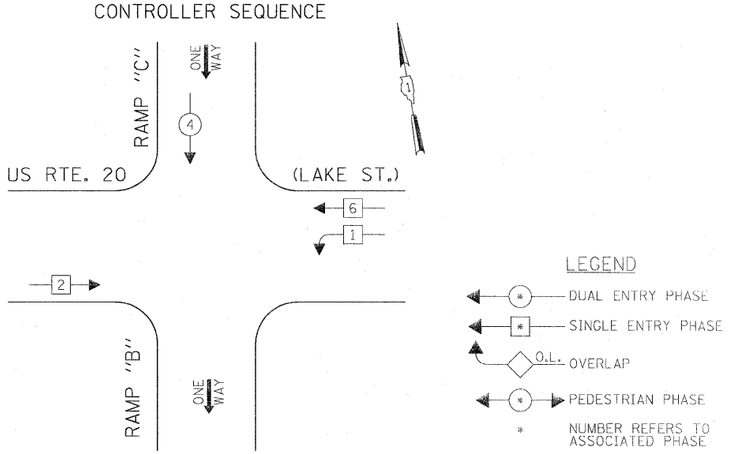
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
U.S. ROUTE 20 (LAKE ST.) AT RAMPS "B" AND "C" (WEST RAMPS) ALL STAGES
(SHEET 1 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	519
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE

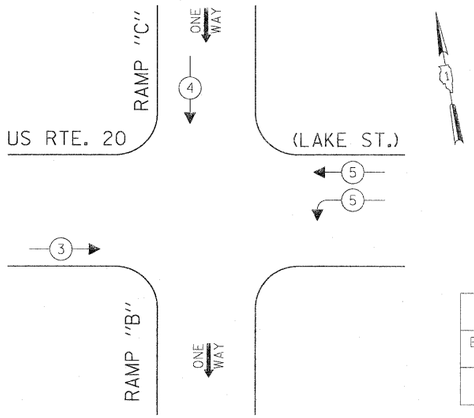


LEGEND

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

TEMPORARY PHASE DESIGNATION DIAGRAM
FOR ALL STAGES

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

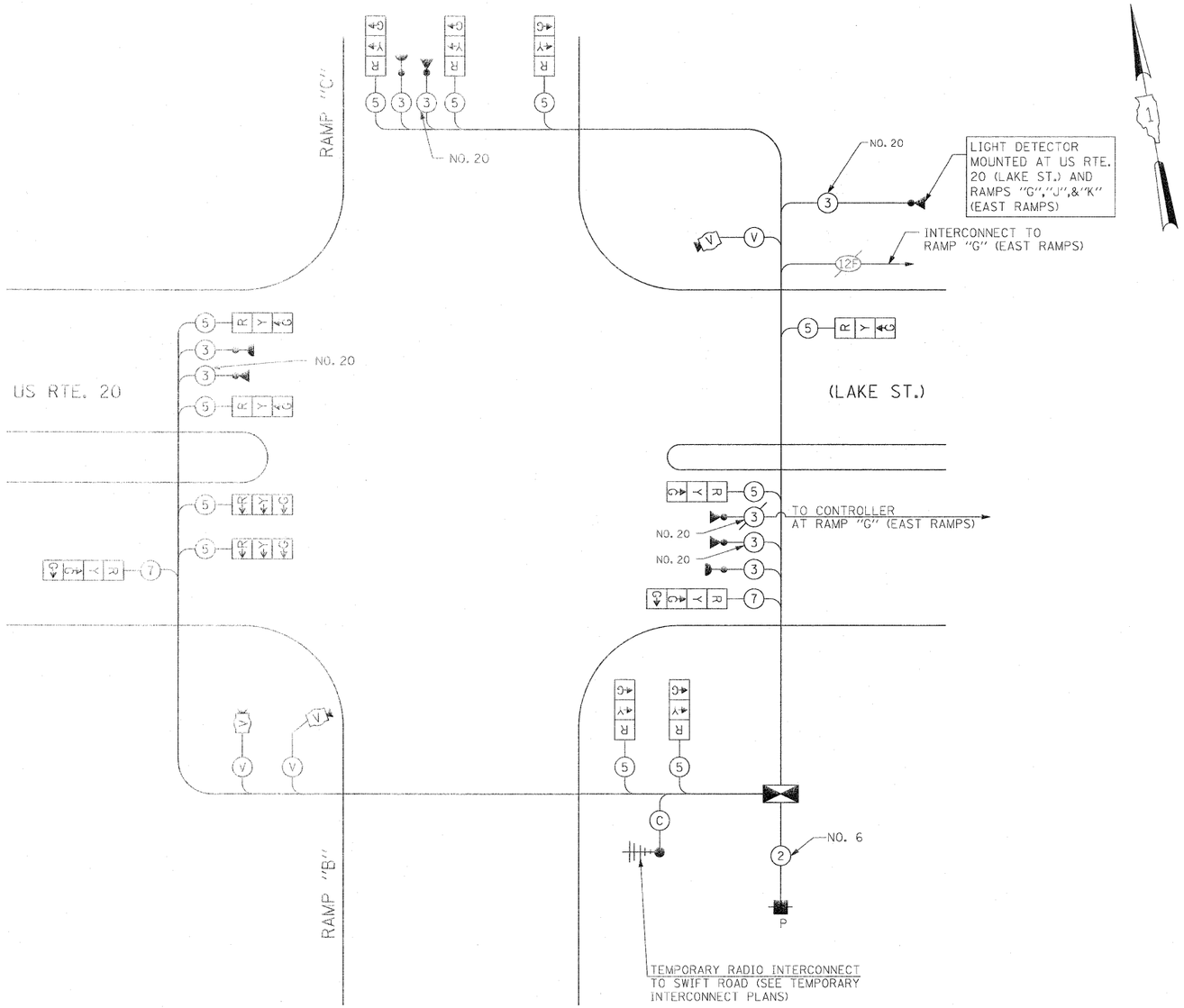
FOR ALL STAGES

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

TYPE	NO LAMPS	WATTAGE x INCAND.	WATTAGE x LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	135	17	0.50	110.5
(YELLOW)	13	135	25	0.25	81.25
(GREEN)	15	135	15	0.25	56.25
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	498

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

ENERGY SUPPLY CONTACT: ELLIE SARALLO
PHONE: (630) 424 5124
COMPANY: COMMONWEALTH EDISON



CABLE PLAN
(NOT TO SCALE)

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

⚠Rev. 6-8-11

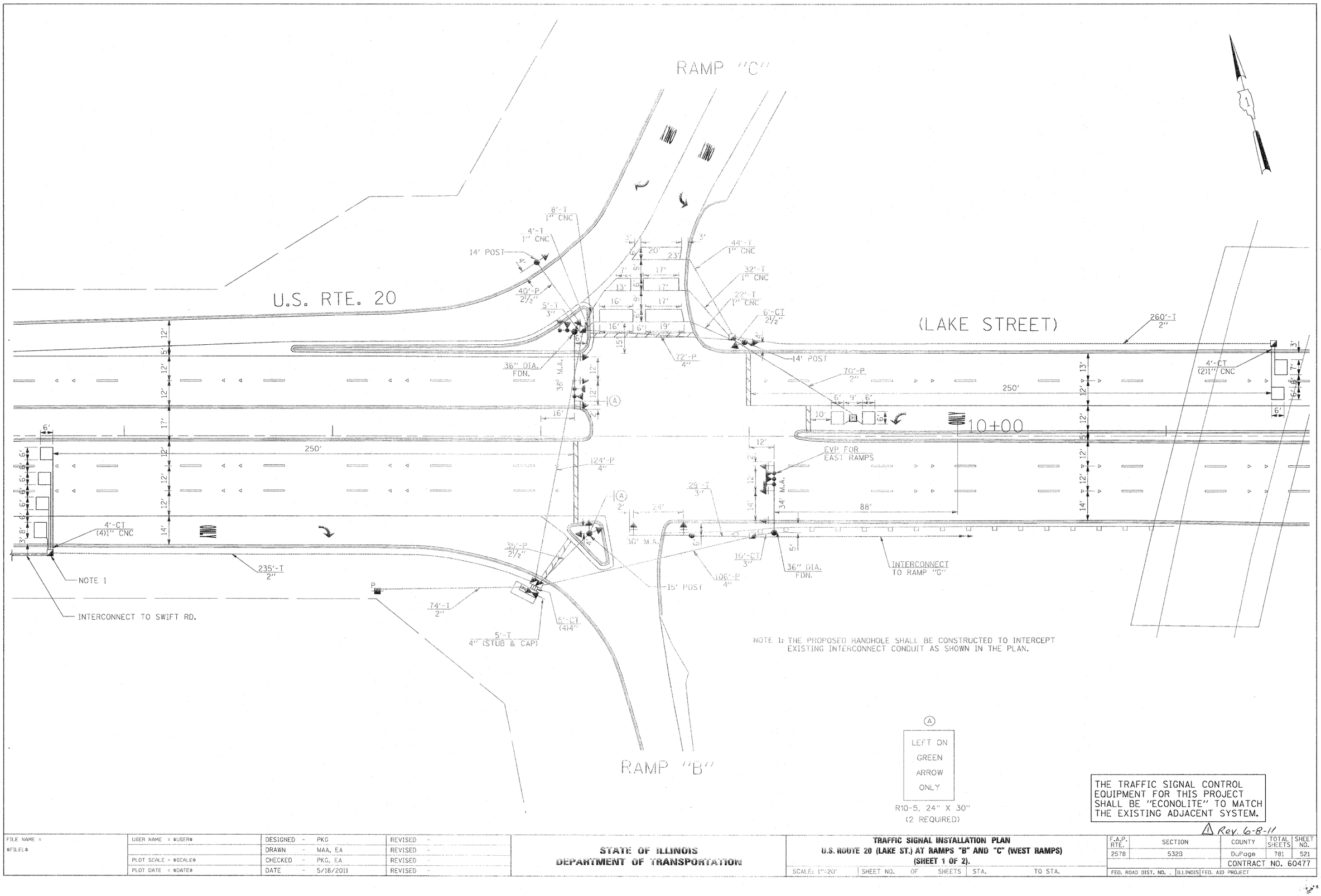
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE. 20 AT RAMPS "B" AND "C" (WEST RAMPS) (SHEET 2 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	520
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



NOTE 1: THE PROPOSED HANDHOLE SHALL BE CONSTRUCTED TO INTERCEPT EXISTING INTERCONNECT CONDUIT AS SHOWN IN THE PLAN.

(A)

LEFT ON GREEN ARROW ONLY

R10-5, 24" X 30"
(2 REQUIRED)

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

⚠ Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
U.S. ROUTE 20 (LAKE ST.) AT RAMPS "B" AND "C" (WEST RAMPS)
(SHEET 1 OF 2).

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

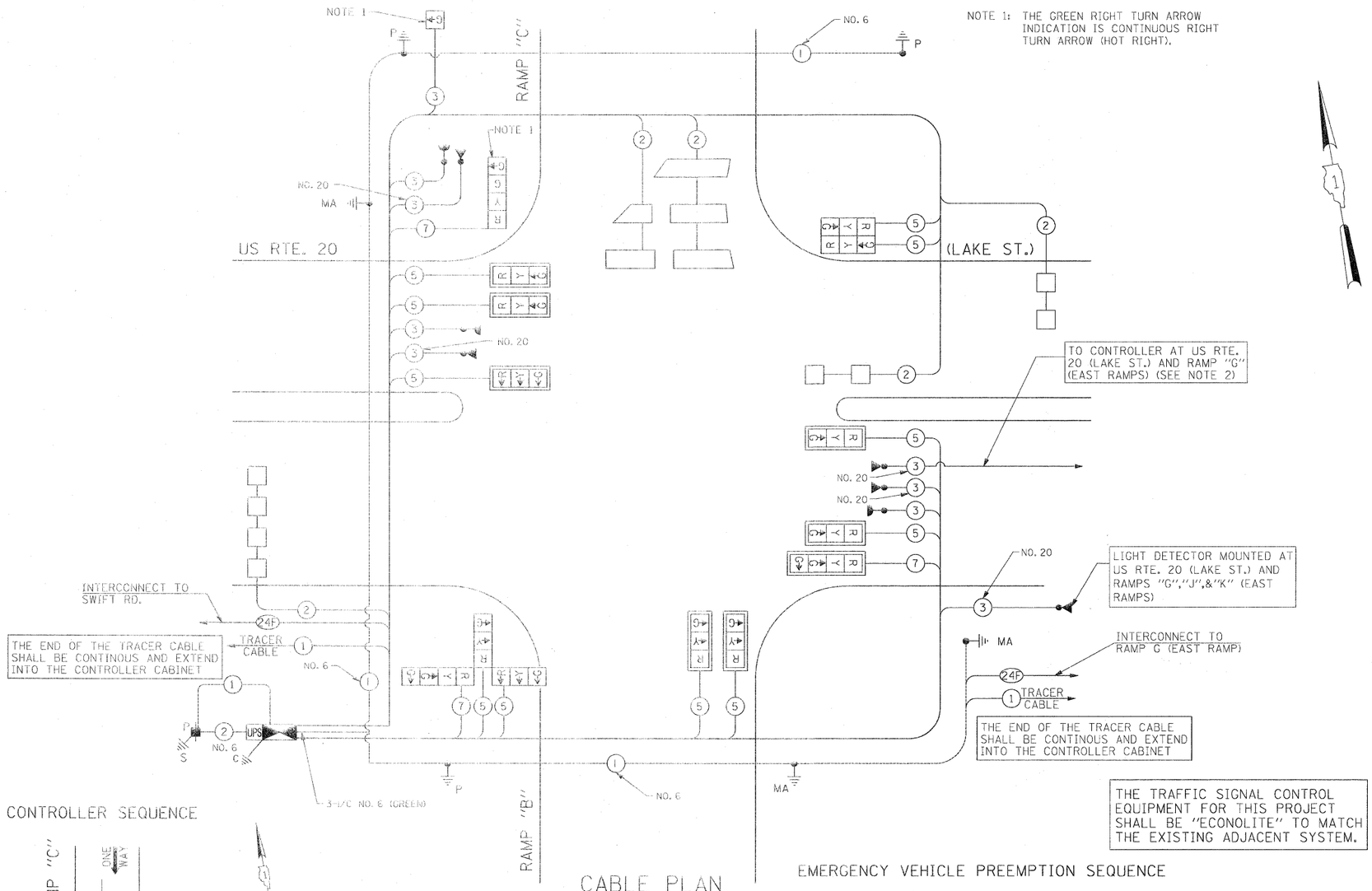
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	521
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
10	SQ FT	SIGN PANEL - TYPE 1
569	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
6	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
44	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
70	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
75	FOOT	CONDUIT PUSHED, 2½" DIA., GALVANIZED STEEL
302	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
1	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
613	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1831	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2083	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
427	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1455	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
94	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
12	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
33	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
1	EACH	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED
7	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-4 SECTION BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
5	EACH	INDUCTIVE LOOP DETECTOR
562	FOOT	DETECTOR LOOP, TYPE 1
* 4	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
7	EACH	REMOVE EXISTING HANDHOLE
8	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
662	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 1620	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF ADDISON

NOTE 2: THE LIGHT DETECTOR WILL BE PAID FOR UNDER THE EAST RAMP PLANS.

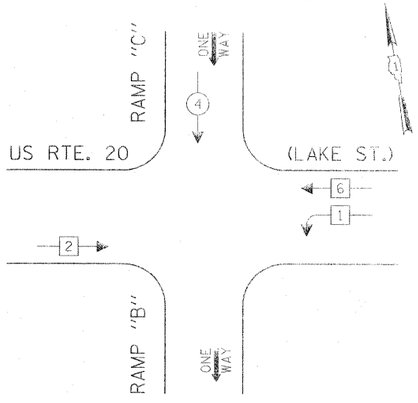


NOTE 1: THE GREEN RIGHT TURN ARROW INDICATION IS CONTINUOUS RIGHT TURN ARROW (HOT RIGHT).

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

CABLE PLAN
(NOT TO SCALE)

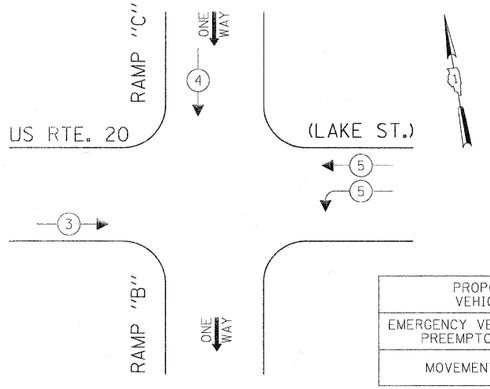
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

Rev. 6-8-11

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

TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	16	135	15	0.25	60
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
HOT GREEN RIGHT ARROW	2		12	1.00	24.00
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	390.5

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

ENERGY SUPPLY CONTACT: ELLIE SARALLO
PHONE: (630) 424 5124
COMPANY: COMMONWEALTH EDISON

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUANTITIES
US RTE. 20 AT RAMPS "B" AND "C" (WEST RAMPS) (SHEET 2 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	522
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

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

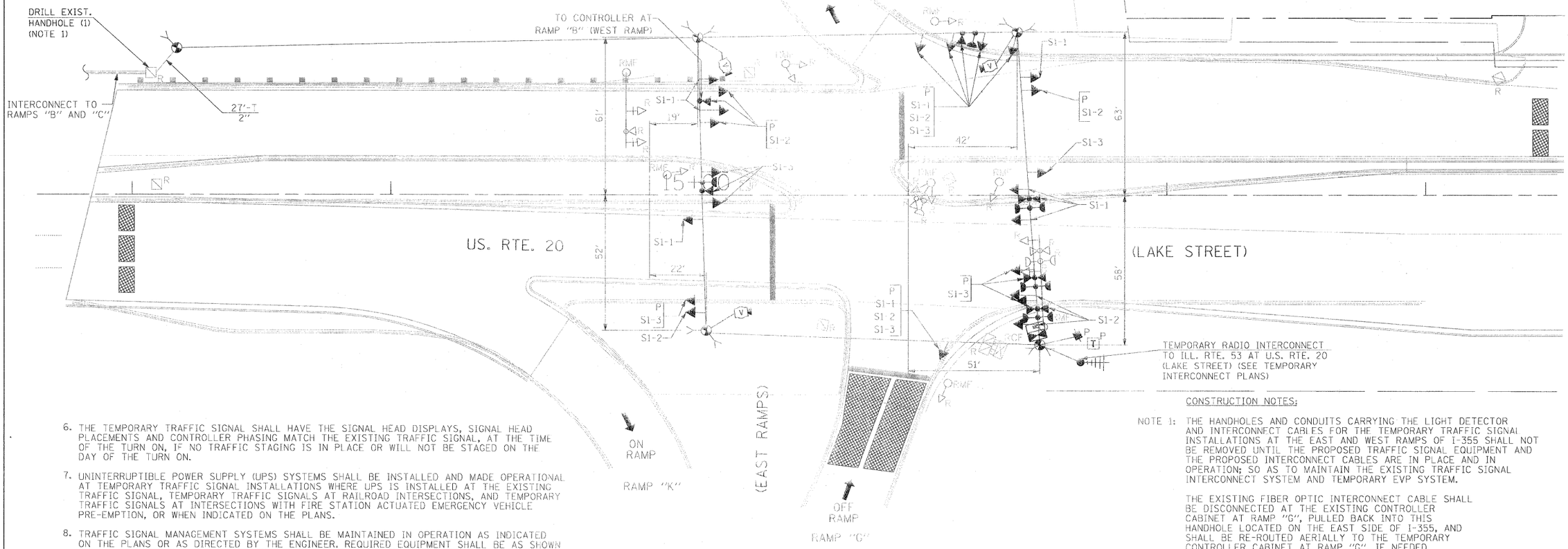
1	EACH	CONTROLLER AND CABINET COMPLETE
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE
6	EACH	TRAFFIC SIGNAL POST
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE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

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

AGENCY: VILLAGE OF ADDISON

CONTACT INFORMATION:
RUDY ESPEDIDO
VILLAGE OF ADDISON
ENGINEERNG DEPARTMENT
PHONE: (630)693-7533

3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER



SIGNAL HEAD PLACEMENTS FOR
STAGES: PRE-STAGE, S1-1, S1-2, AND S1-3.

TEMPORARY RADIO INTERCONNECT TO ILL. RTE. 53 AT U.S. RTE. 20 (LAKE STREET) (SEE TEMPORARY INTERCONNECT PLANS)

CONSTRUCTION NOTES:

NOTE 1: THE HANDHOLES AND CONDUITS CARRYING THE LIGHT DETECTOR AND INTERCONNECT CABLES FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATIONS AT THE EAST AND WEST RAMPS OF I-355 SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT AND THE PROPOSED INTERCONNECT CABLES ARE IN PLACE AND IN OPERATION; SO AS TO MAINTAIN THE EXISTING TRAFFIC SIGNAL INTERCONNECT SYSTEM AND TEMPORARY EVP SYSTEM.

THE EXISTING FIBER OPTIC INTERCONNECT CABLE SHALL BE DISCONNECTED AT THE EXISTING CONTROLLER CABINET AT RAMP "G", PULLED BACK INTO THIS HANDHOLE LOCATED ON THE EAST SIDE OF I-355, AND SHALL BE RE-ROUTED AERIALLY TO THE TEMPORARY CONTROLLER CABINET AT RAMP "G". IF NEEDED, ADDITIONAL FIBER OPTIC CABLE SHALL BE SPLICED TO THE EXISTING FIBER OPTIC CABLE. THIS WORK WILL BE INCLUDED IN THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AND NO EXTRA COMPENSATION SHALL BE PROVIDED FOR THE SAME.

NOTE 2: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION PRE-STAGE AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

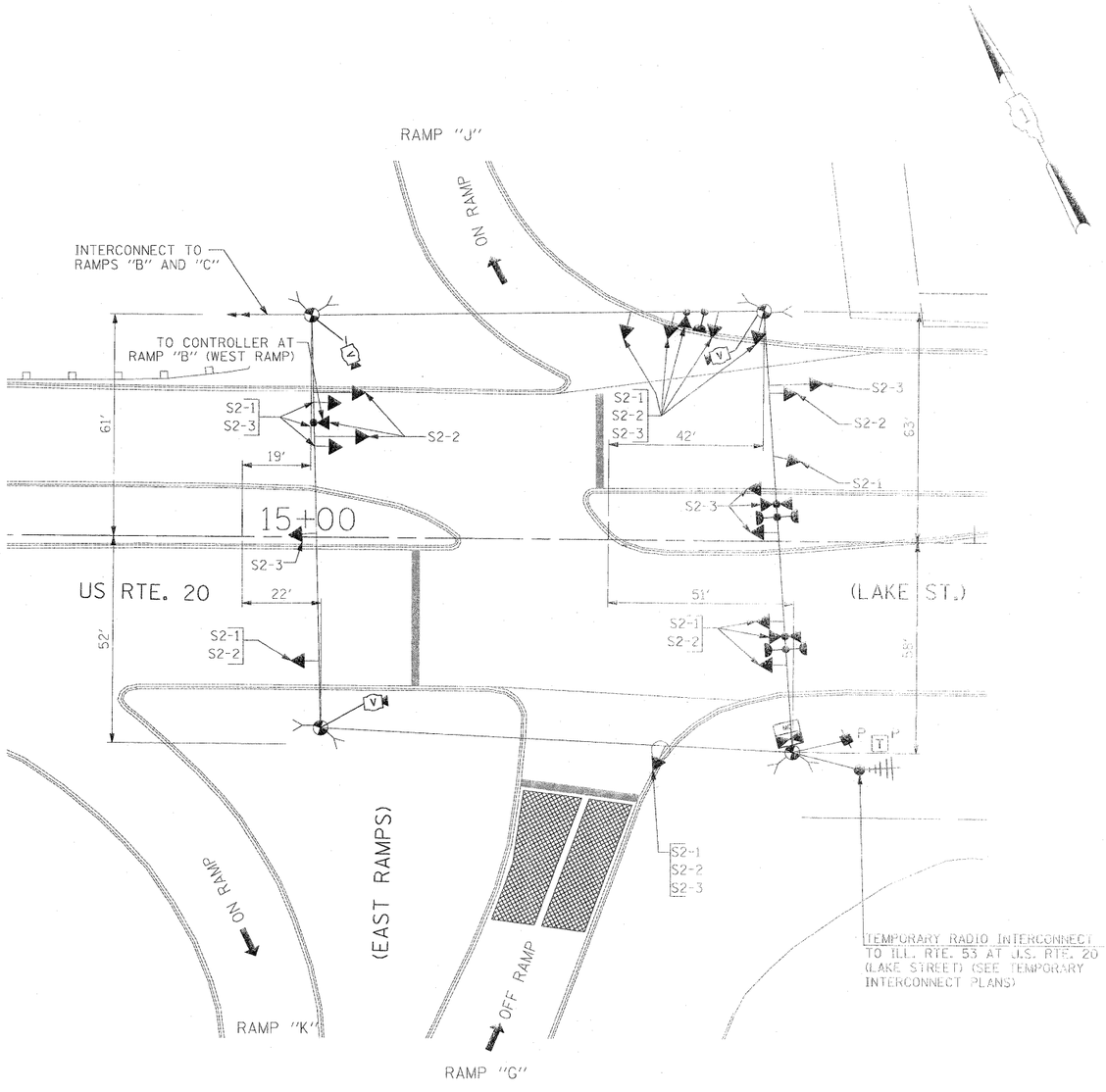
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

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

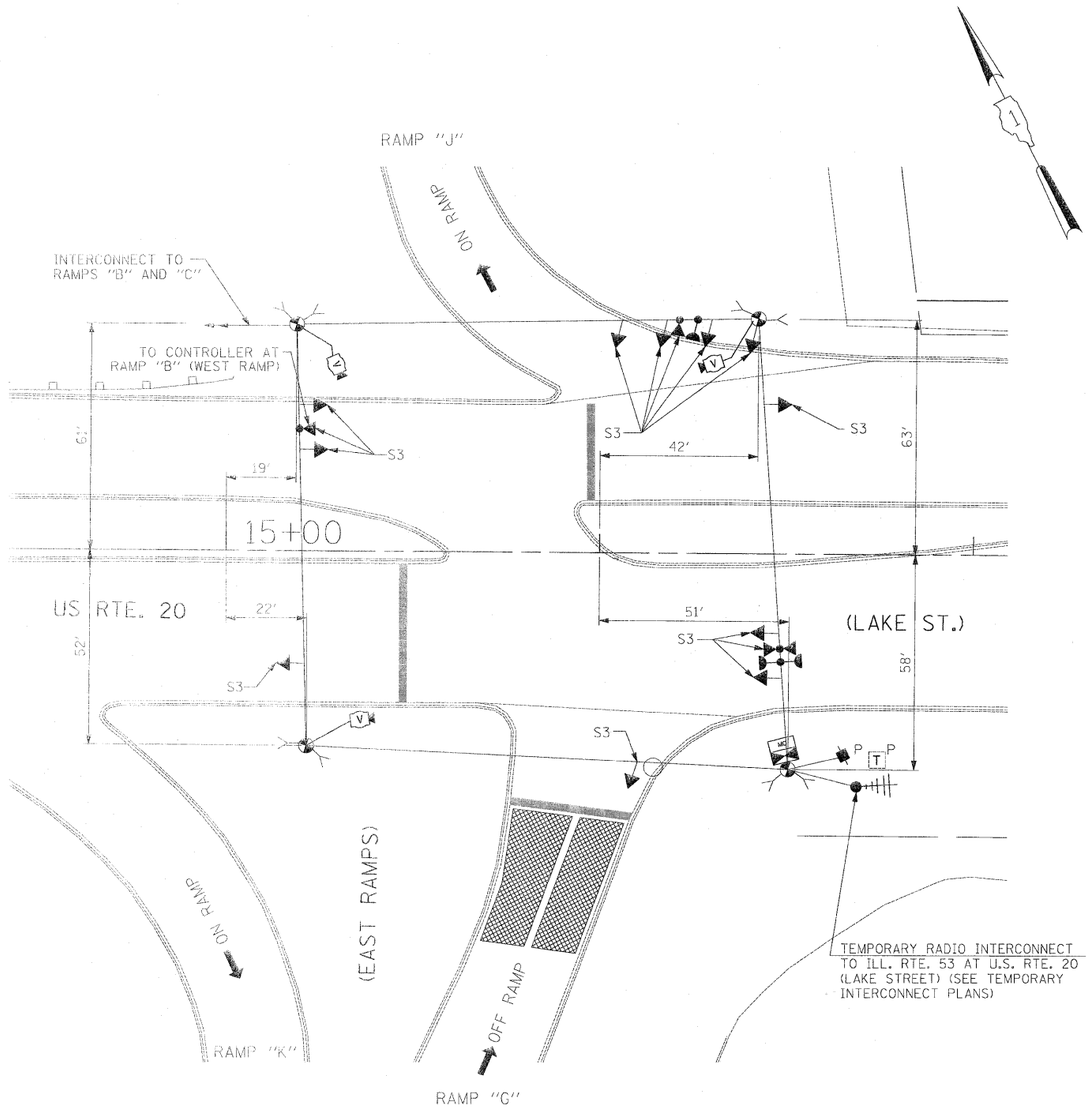
Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN U.S. ROUTE 20 (LAKE ST.) AT RAMPS "G","J", AND "K" (EAST RAMPS) PRE STAGE AND STAGE 1 (SHEET 1 OF 3).
		DRAWN - MAA, EA	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -		SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	523
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SIGNAL HEAD PLACEMENTS FOR STAGES: S2-1, S2-2, AND S2-3.



SIGNAL HEAD PLACEMENTS FOR STAGE 3.

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
U.S. ROUTE 20 (LAKE ST.) AT RAMPS "G","J", AND "K" (EAST RAMPS) STAGE 2 AND STAGE 3 (SHEET 2 OF 3).

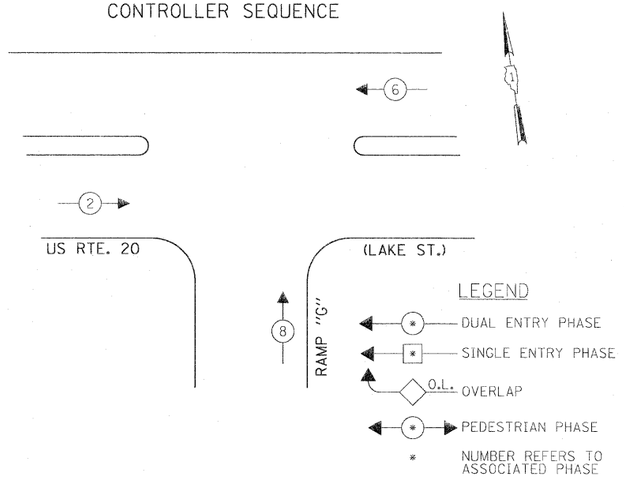
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

⚠ Rev. 6-8-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	524
		CONTRACT NO. 60477		

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

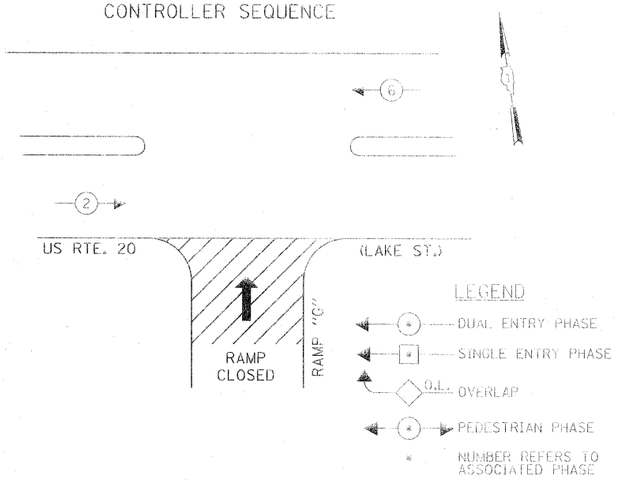
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: S1-2, S1-3, S2-1, S2-2, S2-3, AND S3

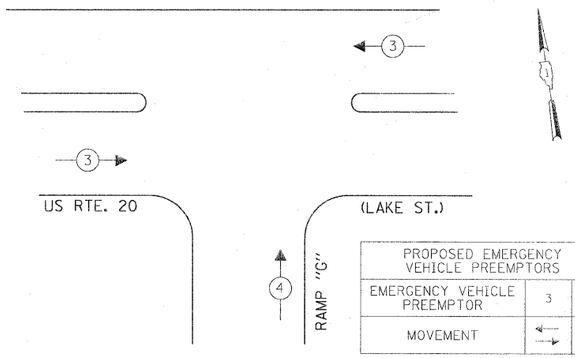
CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

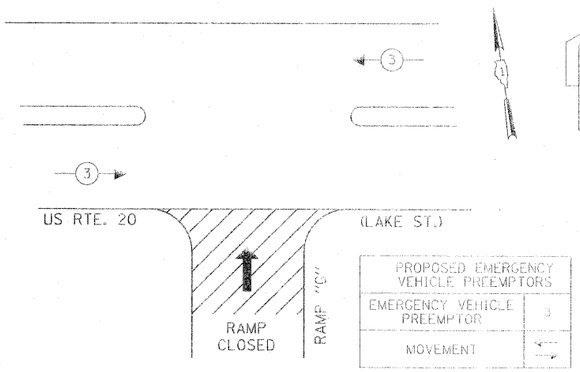
STAGE S1-1

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

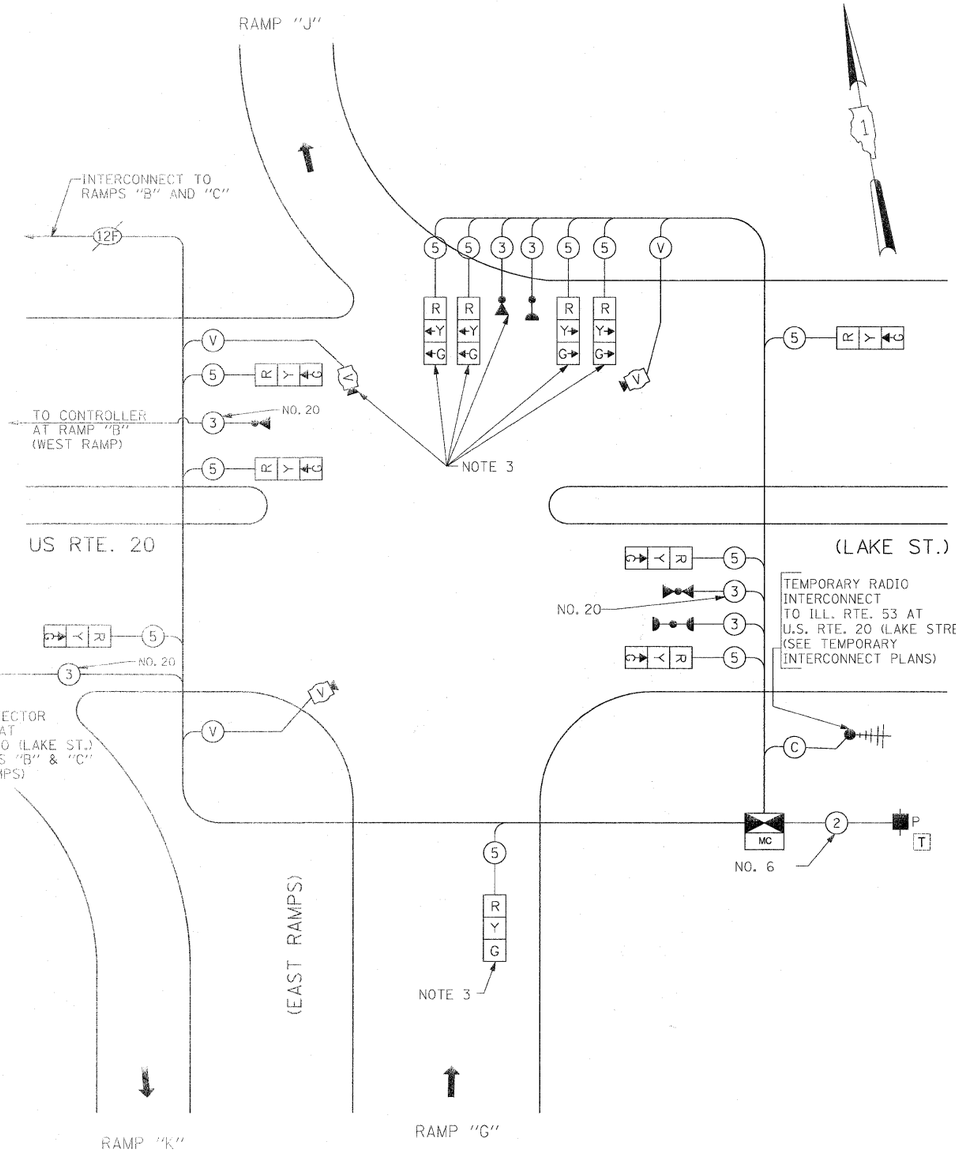


STAGES: S1-2, S1-3, S2-1, S2-2, S2-3, AND S3

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



STAGE S1-1



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)	11	135	17	0.50	93.5
(YELLOW)	11	135	25	0.25	68.75
(GREEN)	11	135	15	0.25	41.25
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	453.5

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

ENERGY SUPPLY CONTACT: ELLIE SARALLO
PHONE: (630) 424 5124
COMPANY: COMMONWEALTH EDISON

NOTE 1: A MASTER CONTROLLER WILL BE SUPPLIED AT THIS INTERSECTION. THE COST OF WHICH SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

NOTE 2: THE TELEPHONE SERVICE MUST BE MAINTAINED AT THIS TEMPORARY TRAFFIC SIGNAL INSTALLATION. THIS ITEM OF WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

NOTE 3: THE SIGNAL HEADS FOR THE NB OFF RAMP AT LAKE STREET SHALL BE DISCONNECTED AT THE CONTROLLER AND BAGGED DURING CONSTRUCTION STAGE S1-1 WHEN THE OFF RAMP IS CLOSED TO TRAFFIC. THE VIDEO DETECTION SHALL ALSO BE DISABLED

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

⚠ Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

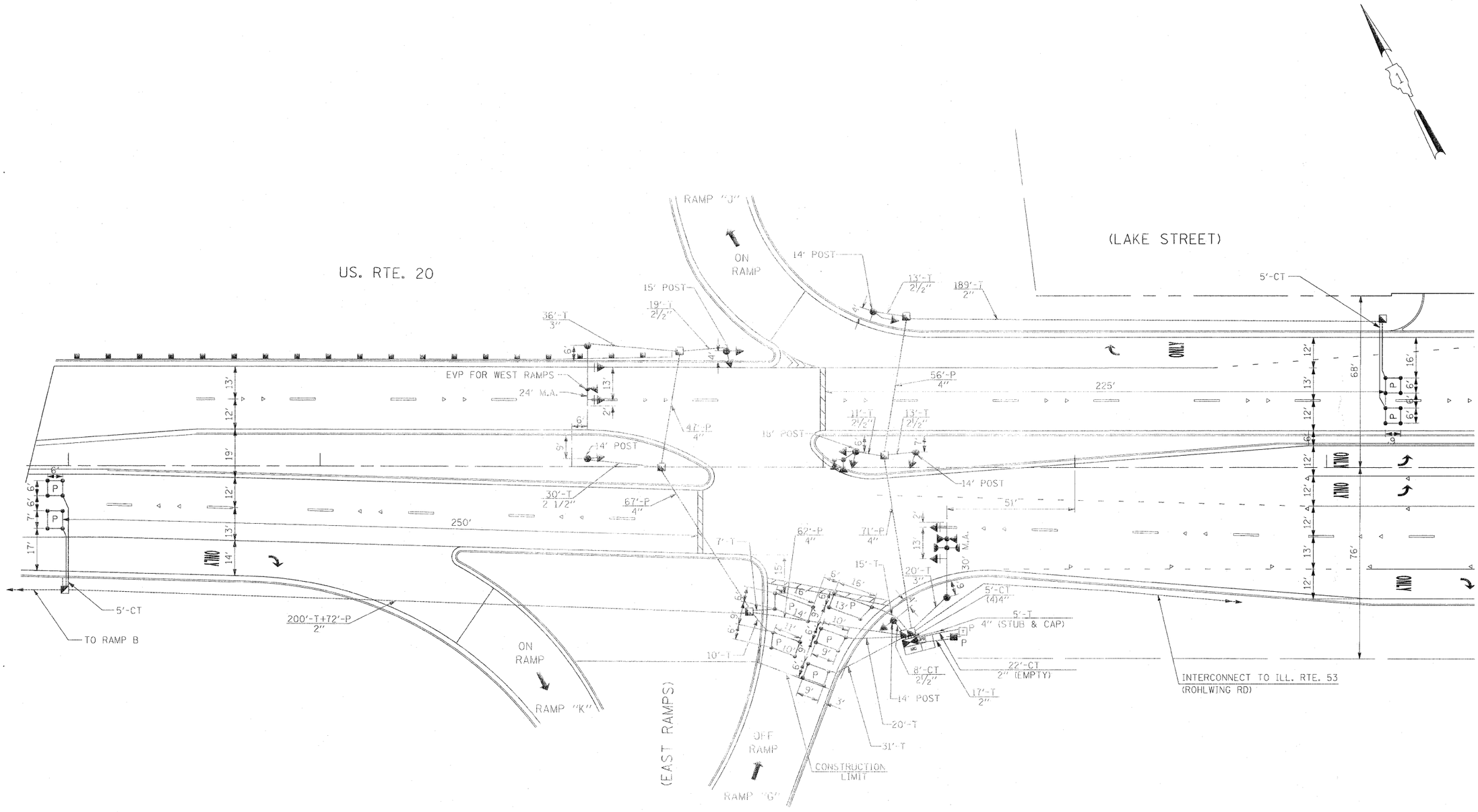
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
U.S. RTE. 20 (LAKE ST.) AT RAMPS "G","J", AND "K" (EAST RAMPS) (SHEET 3 OF 3)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	525
		CONTRACT NO. 60477		

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



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

Δ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION
U.S. ROUTE 20 (LAKE ST.) AT RAMPS "G", "J", AND "K" (EAST RAMPS)
(SHEET 1 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	526
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

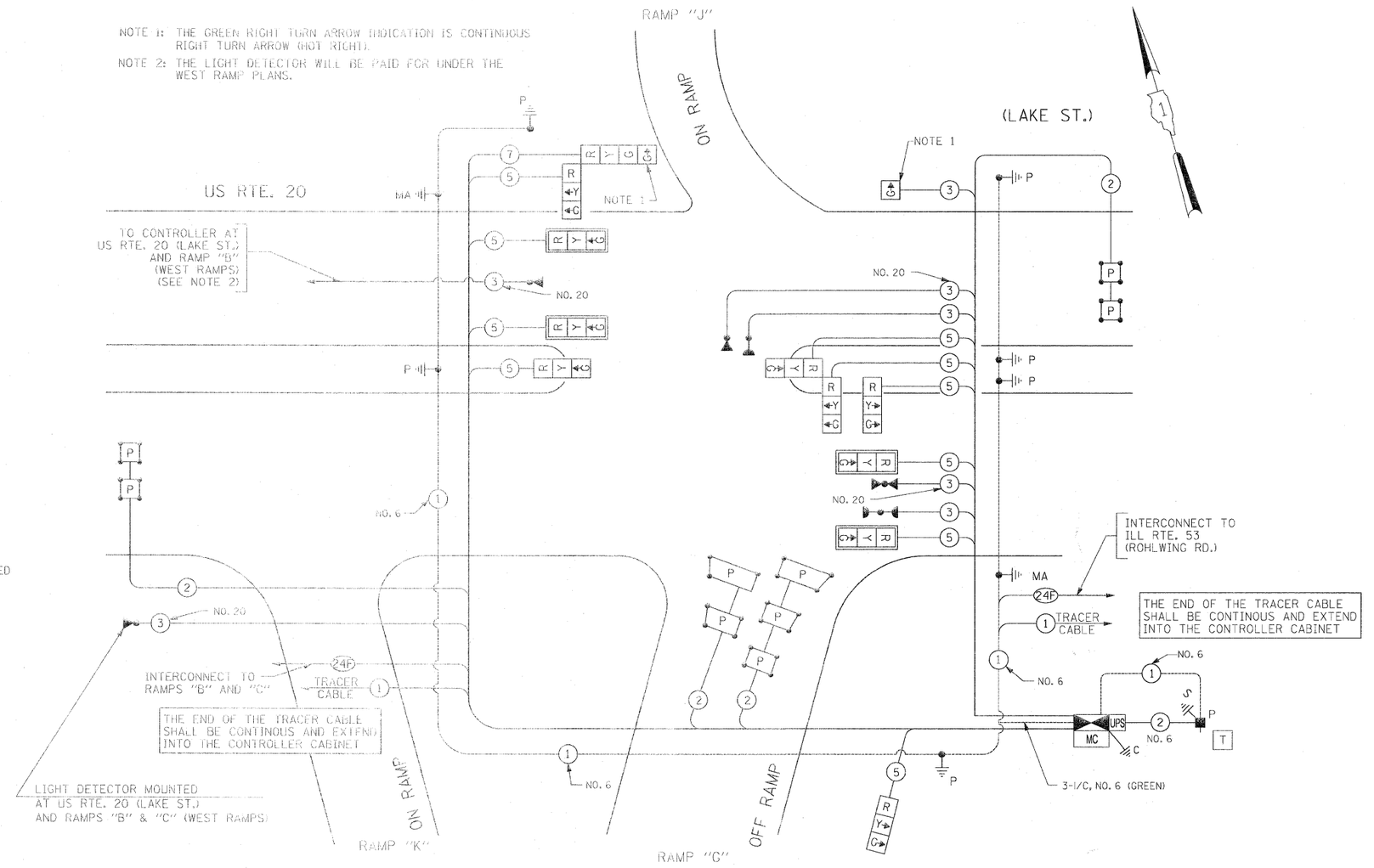
SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
423	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
94	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
56	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
72	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
303	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
7	EACH	HANDHOLE
1	EACH	DOUBLE HANDHOLE
563	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
* 417	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1674	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
844	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
37	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
24	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
11	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
1	EACH	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
4	EACH	INDUCTIVE LOOP DETECTOR
* 3	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
385	EACH	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
690	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
* 1071	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

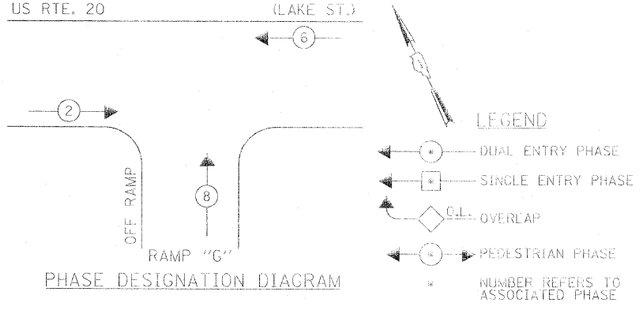
* 100% COST TO VILLAGE OF ADDISON

NOTE 1: THE GREEN RIGHT TURN ARROW INDICATION IS CONTINUOUS RIGHT TURN ARROW (HOT RIGHT).

NOTE 2: THE LIGHT DETECTOR WILL BE PAID FOR UNDER THE WEST RAMP PLANS.



CONTROLLER SEQUENCE

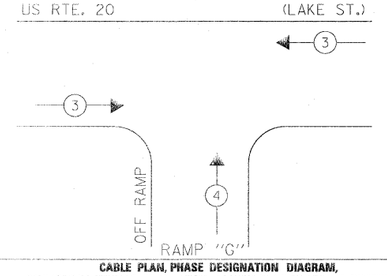


PHASE DESIGNATION DIAGRAM

CABLE PLAN

(NOT TO SCALE)

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS X	WATTAGE INCAND.	WATTAGE LED	X OPERATION	
SIGNAL (RED)	11	135	17	0.50	93.5
(YELLOW)	11	135	25	0.25	68.75
(GREEN)	11	135	15	0.25	41.25
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
HOT GREEN RIGHT ARROW	2		12	1.00	24
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	327.5

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

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

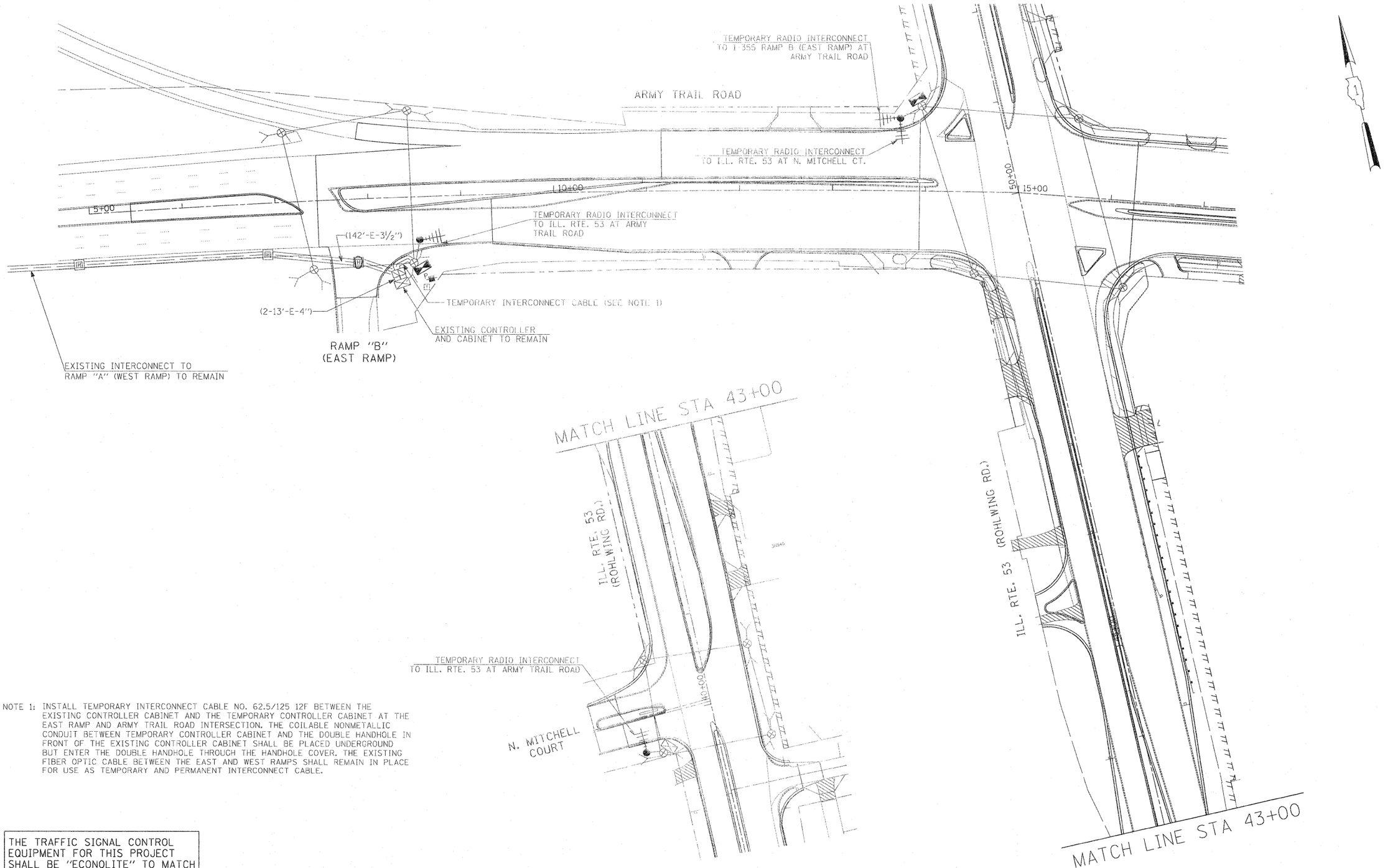
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUANTITIES
U.S. ROUTE 20 (LAKE ST.) AT RAMPS "G", "J", AND "K" (EAST RAMPS)
(SHEET 2 OF 2)

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

Rev. 6-8-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	527
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



NOTE 1: INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 12F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET AT THE EAST RAMP AND ARMY TRAIL ROAD INTERSECTION. THE COILABLE NONMETALLIC CONDUIT BETWEEN TEMPORARY CONTROLLER CABINET AND THE DOUBLE HANDHOLE IN FRONT OF THE EXISTING CONTROLLER CABINET SHALL BE PLACED UNDERGROUND BUT ENTER THE DOUBLE HANDHOLE THROUGH THE HANDHOLE COVER. THE EXISTING FIBER OPTIC CABLE BETWEEN THE EAST AND WEST RAMPS SHALL REMAIN IN PLACE FOR USE AS TEMPORARY AND PERMANENT INTERCONNECT CABLE.

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

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

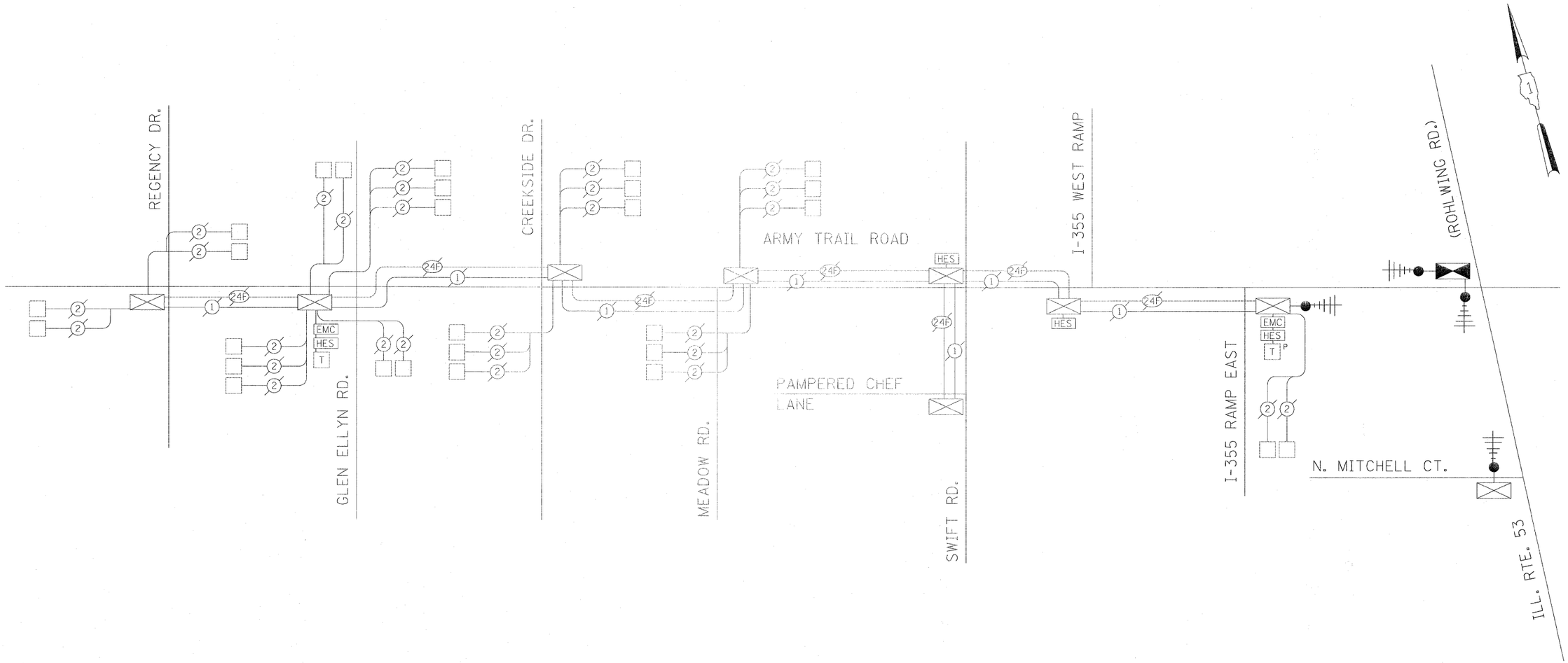
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
ARMY TRAIL ROAD FROM RAMP "B" (EAST RAMP) TO ILL. RTE. 53 (ROHLWING RD.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	528
		CONTRACT NO. 60477		

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



LEGEND

HARDENED ETHERNET SWITCH [HES]

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

△ Rev. 6-8-11

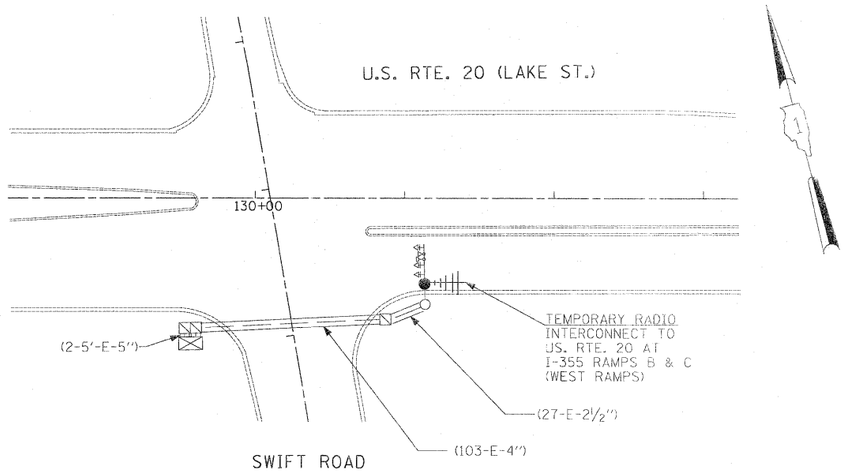
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

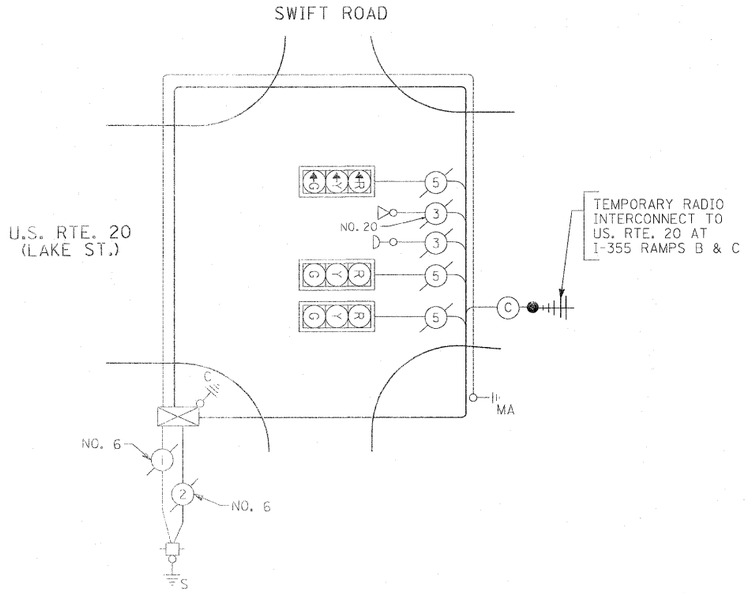
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
ARMY TRAIL ROAD FROM REGENCY DR. TO ILL. RTE. 53 (ROHLWING RD.)

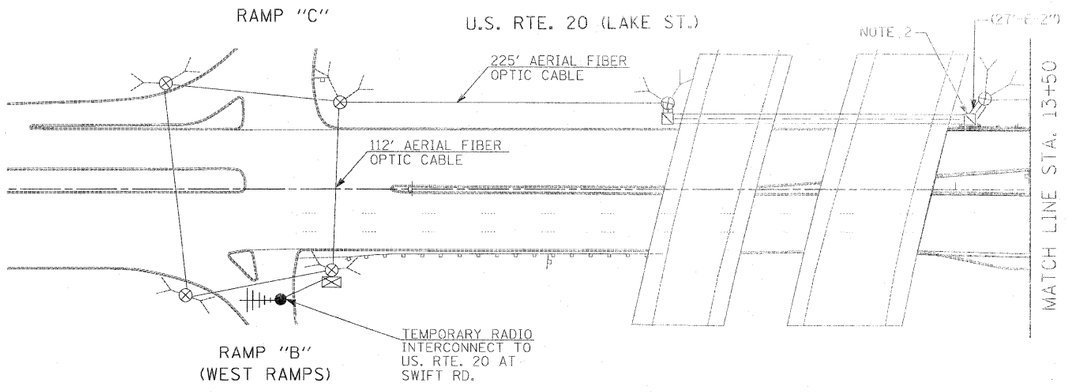
SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	529
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		





PARTIAL CABLE DIAGRAM
US ROUTE 20 @ SWIFT RD.



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

Rev. 6-8-11

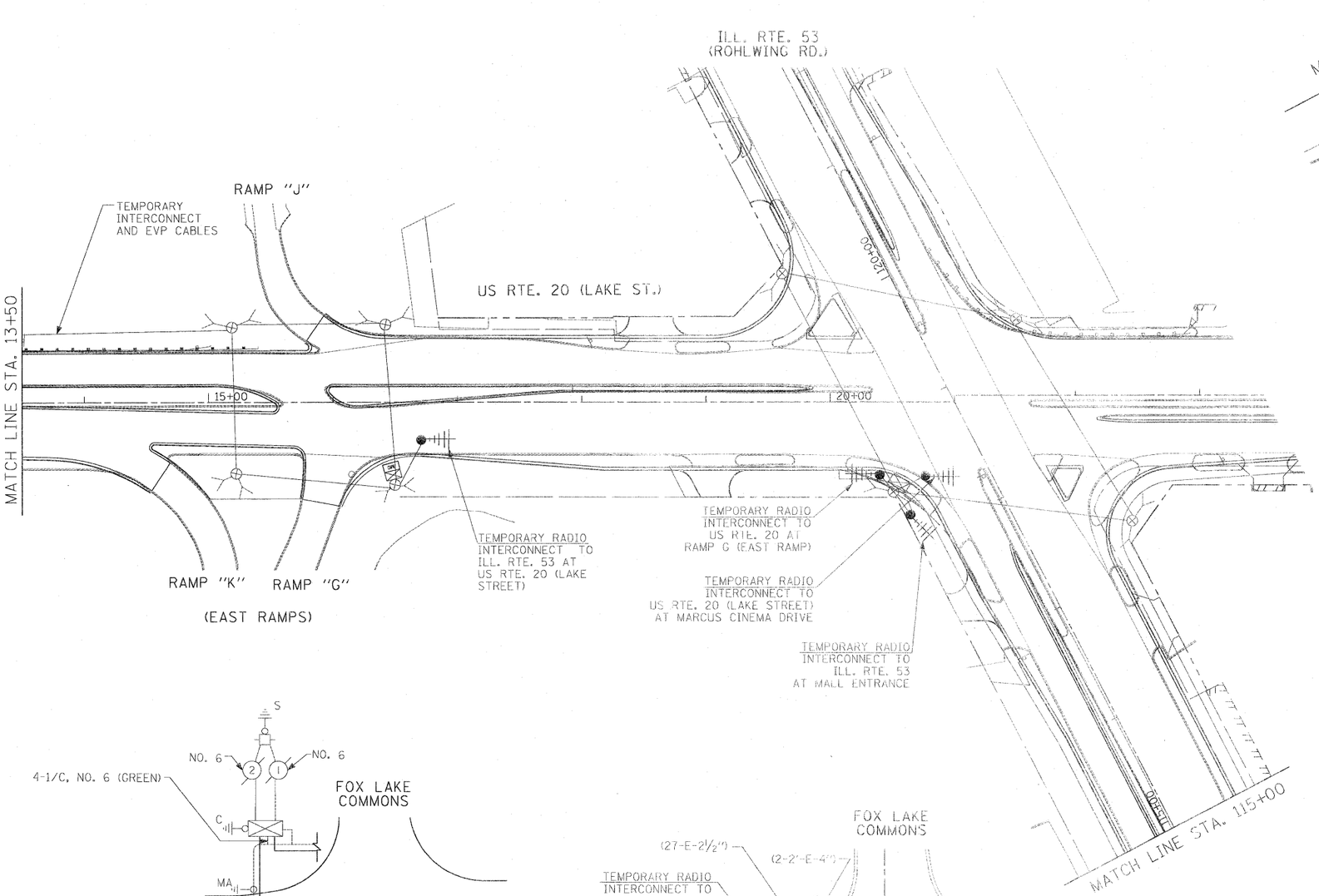
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

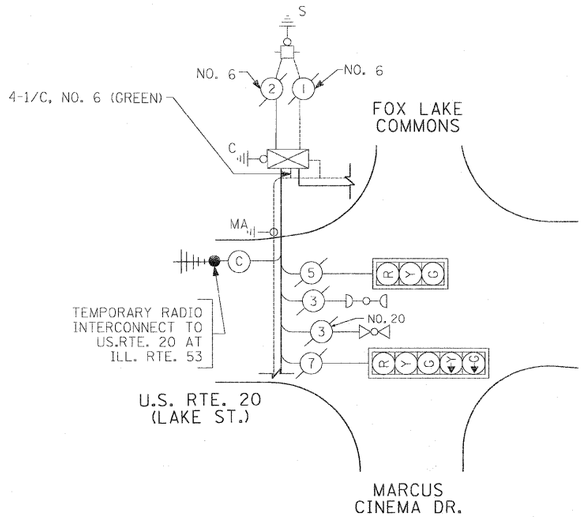
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
U.S. RTE. 20 (LAKE ST.) FROM ILL. RTE. 53 (ROHLWING RD.) TO SWIFT ROAD

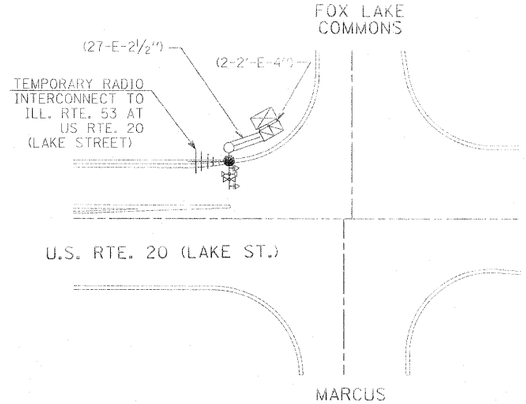
SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	530
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





PARTIAL CABLE DIAGRAM
US ROUTE 20 @ MARCUS CINEMA DR.



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

⚠ Rev. 6-8-11

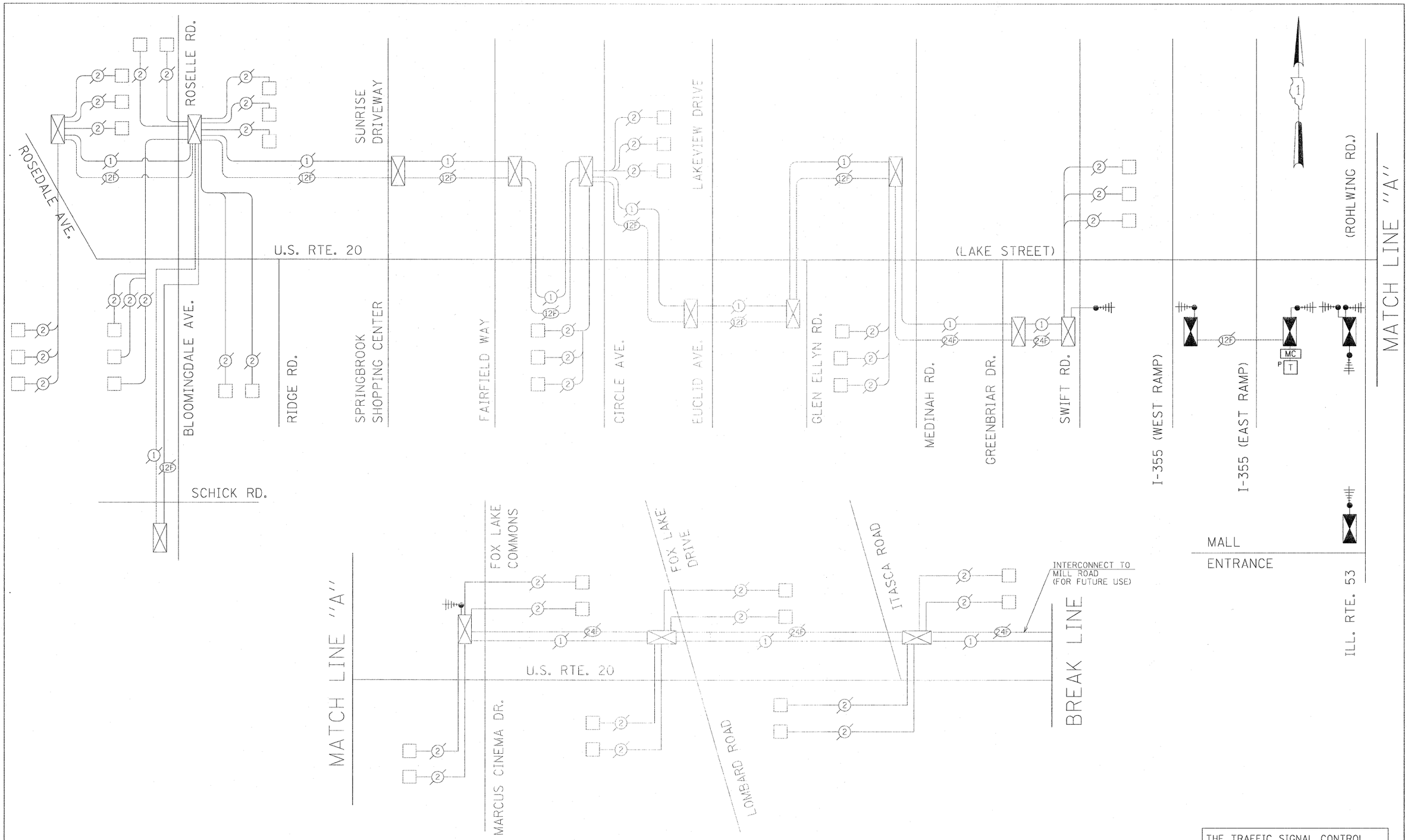
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
U.S. RTE. 20 (LAKE ST.) FROM ILL. RTE. 53 (ROHLWING RD.)
TO SWIFT ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	530A
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

⚠ Rev. 6-8-11

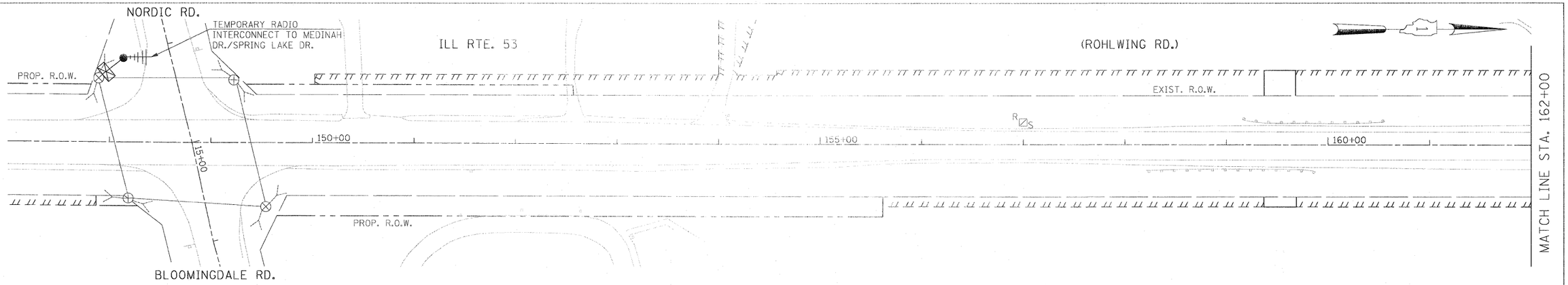
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

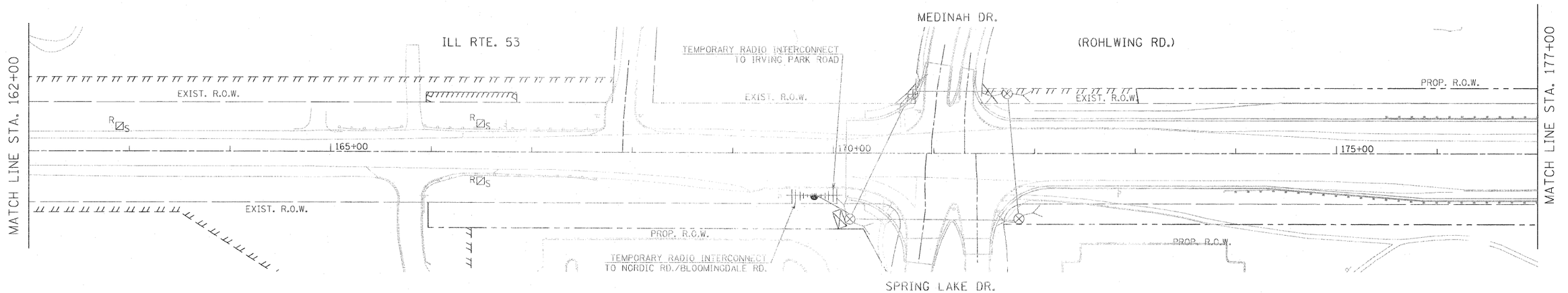
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
U.S. RTE. 20 (LAKE ST.) FROM ROSEDALE AVE. TO ILL. RTE. 53 (ROHLWING RD.)

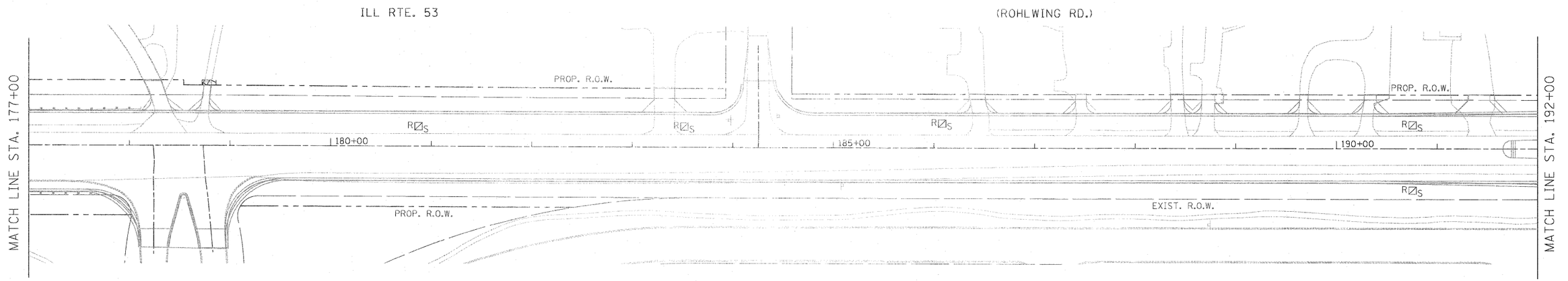
SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	531
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		





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



Rev. 6-8-11

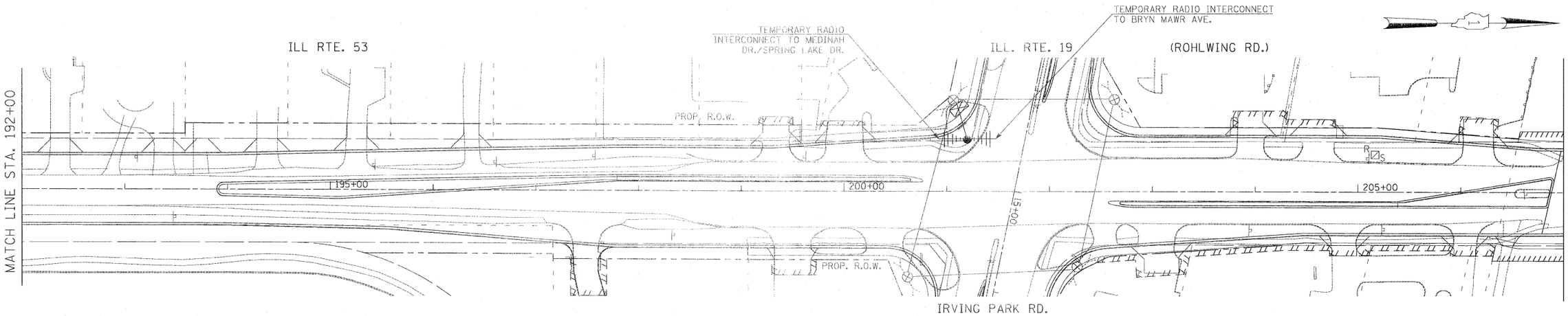
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

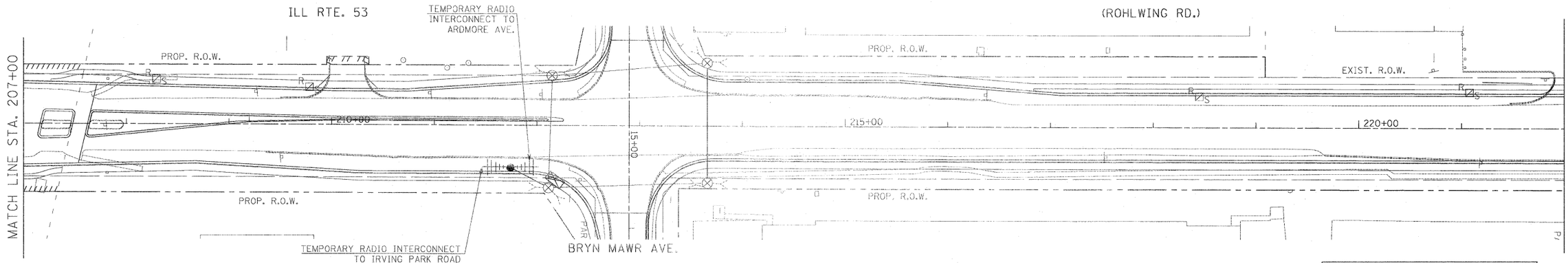
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
ILL. RTE. 53 (ROHLWING RD.) FROM NORDIC ROAD TO THORNDALE AVE.
(SHEET 1 OF 3)

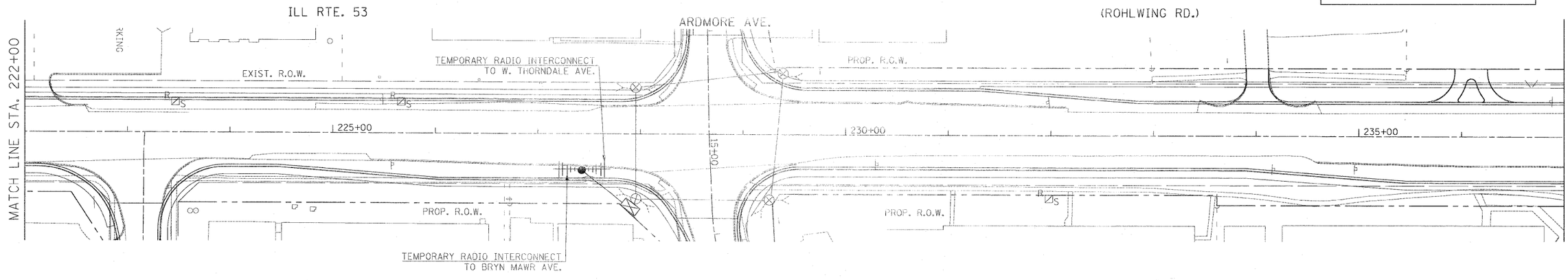
SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	532
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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



Rev. 6-8-11

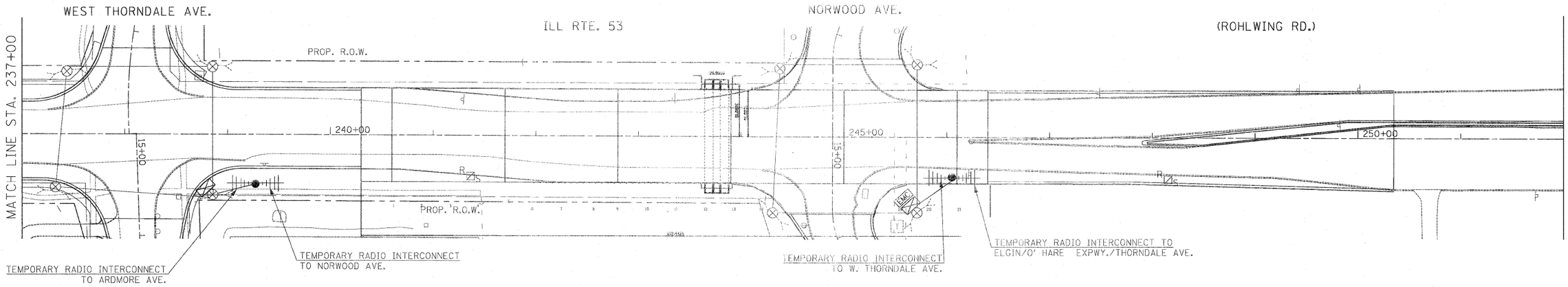
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

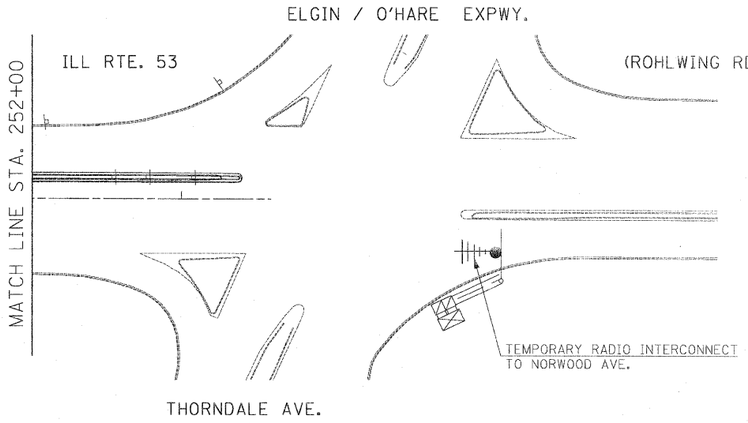
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

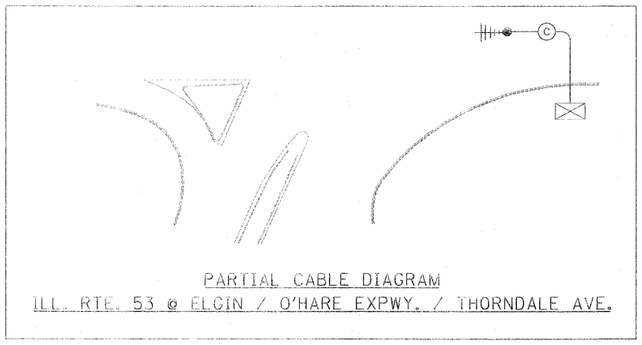
TEMPORARY INTERCONNECT PLAN
ILL. RTE. 53 (ROHLWING RD.) FROM NORDIC ROAD TO THORNDALE AVE.
(SHEET 2 OF 3)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	533
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		







PARTIAL CABLE DIAGRAM
ILL. RTE. 53 @ ELGIN / O'HARE EXPWY. / THORNDALE AVE.

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

1 Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

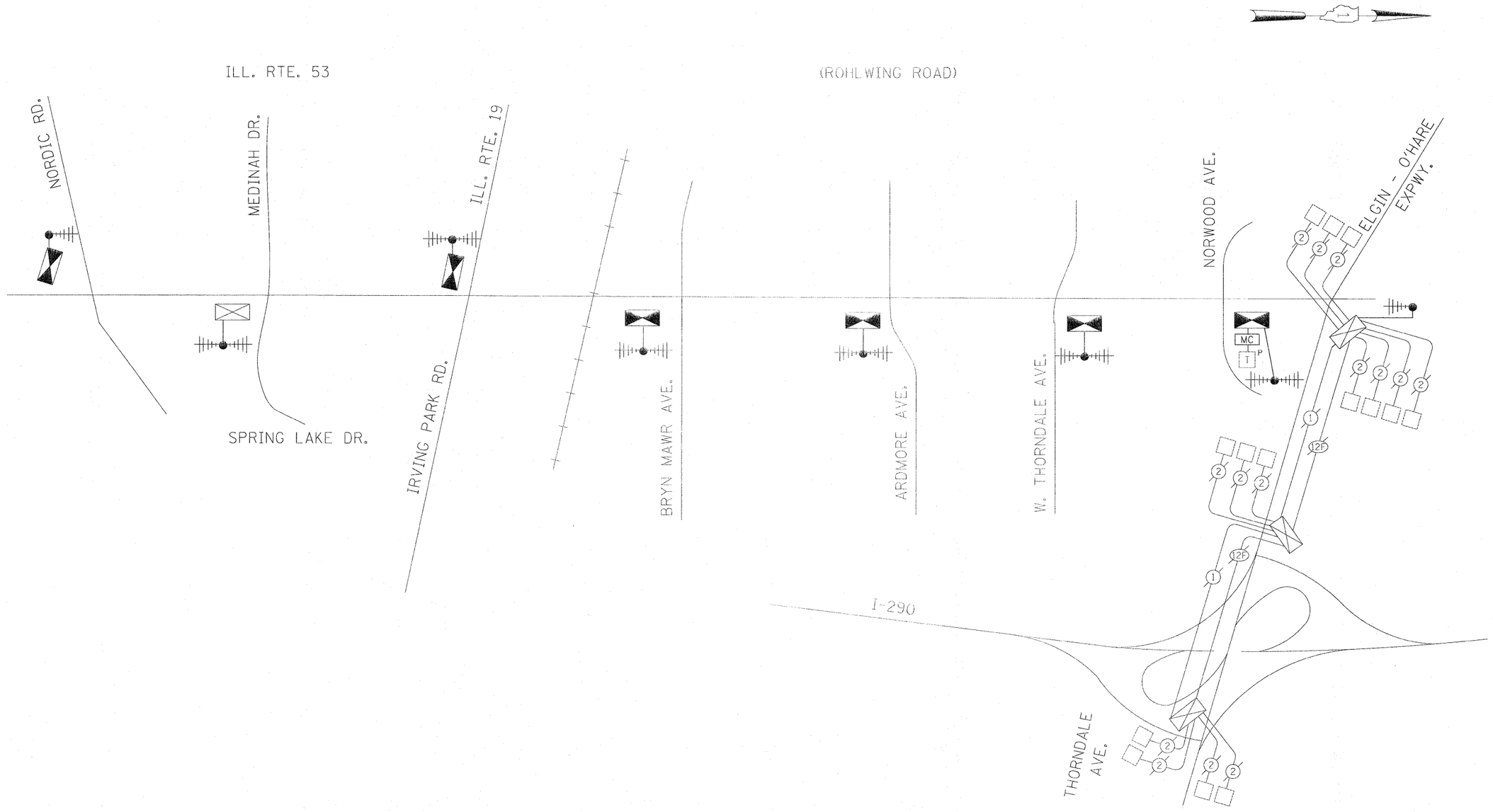
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
ILL. RTE. 53 (ROHLWING RD.) FROM NORDIC ROAD TO THORNDALE AVE.
(SHEET 3 OF 3)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	534
		CONTRACT NO. 60477		

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



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

Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

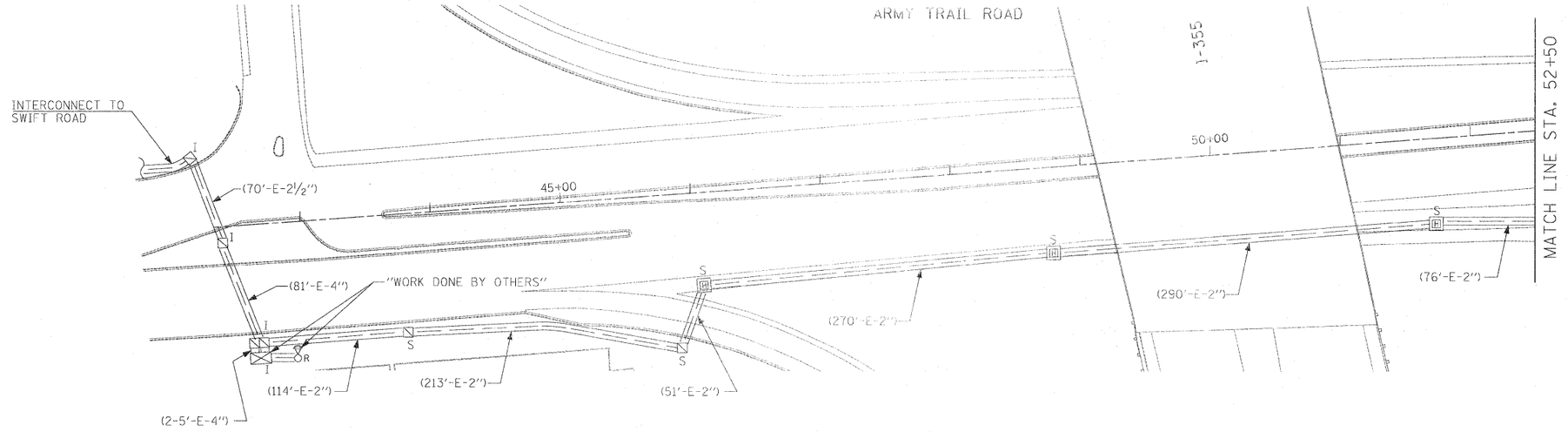
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

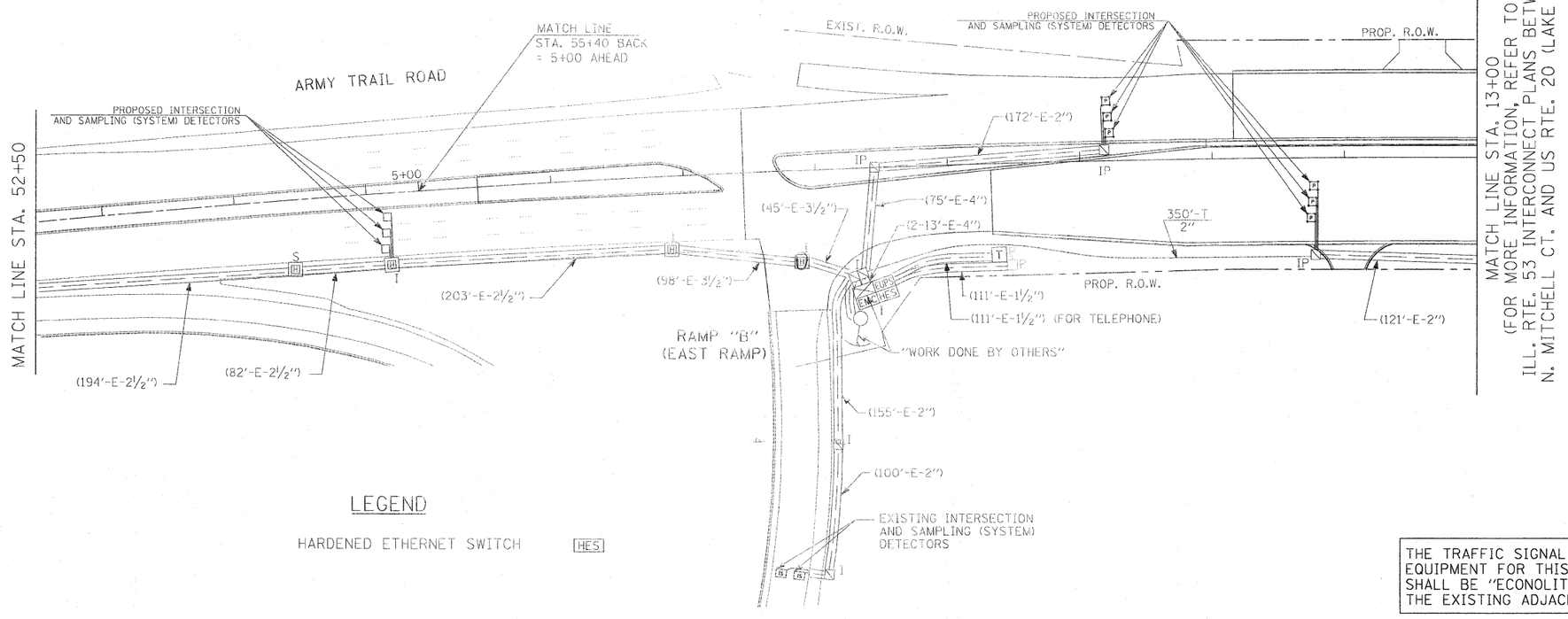
TEMPORARY INTERCONNECT SCHEMATIC
ILLINOIS ROUTE 53 (ROHLWING RD.) FROM
NORDIC ROAD TO ELGIN-O'HARE EXPWY./THORNDALE AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	535
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

RAMP "A" (WEST RAMP)





LEGEND

HARDENED ETHERNET SWITCH [HES]

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

Rev. 6-8-11

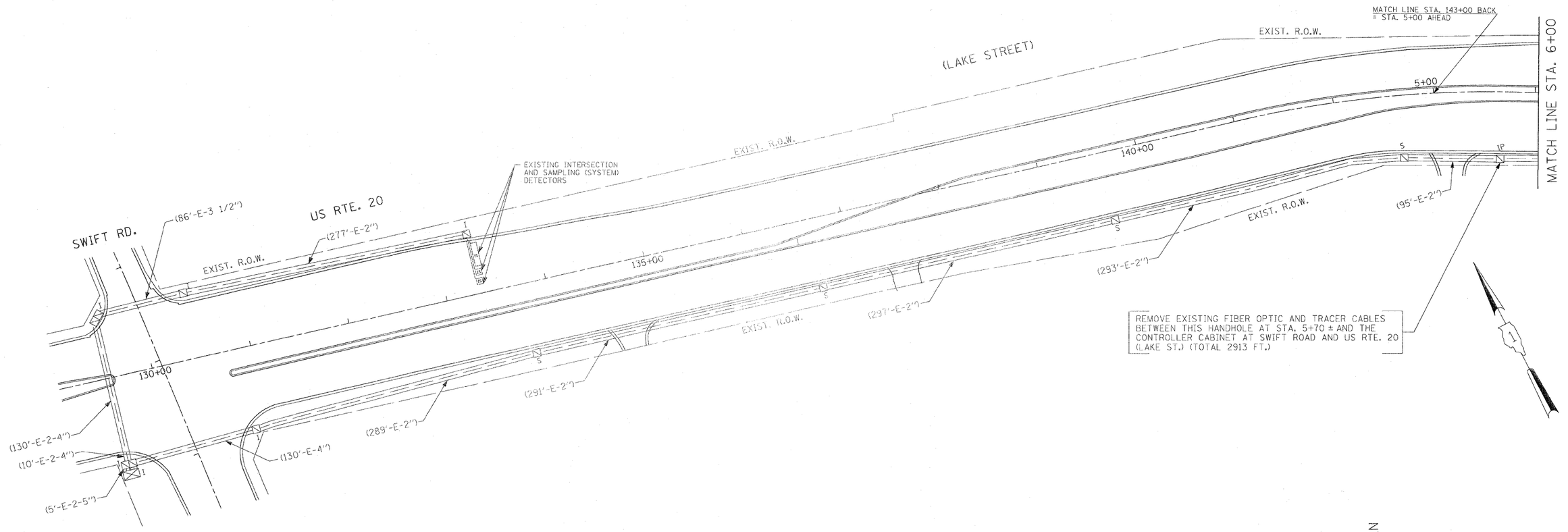
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
ARMY TRAIL ROAD FROM ILL. RTE. 53 (ROHLWING RD.) TO I-355 RAMP "B"
(SHEET 1 OF 1)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	536
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



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

⚠ Rev. 6-8-11

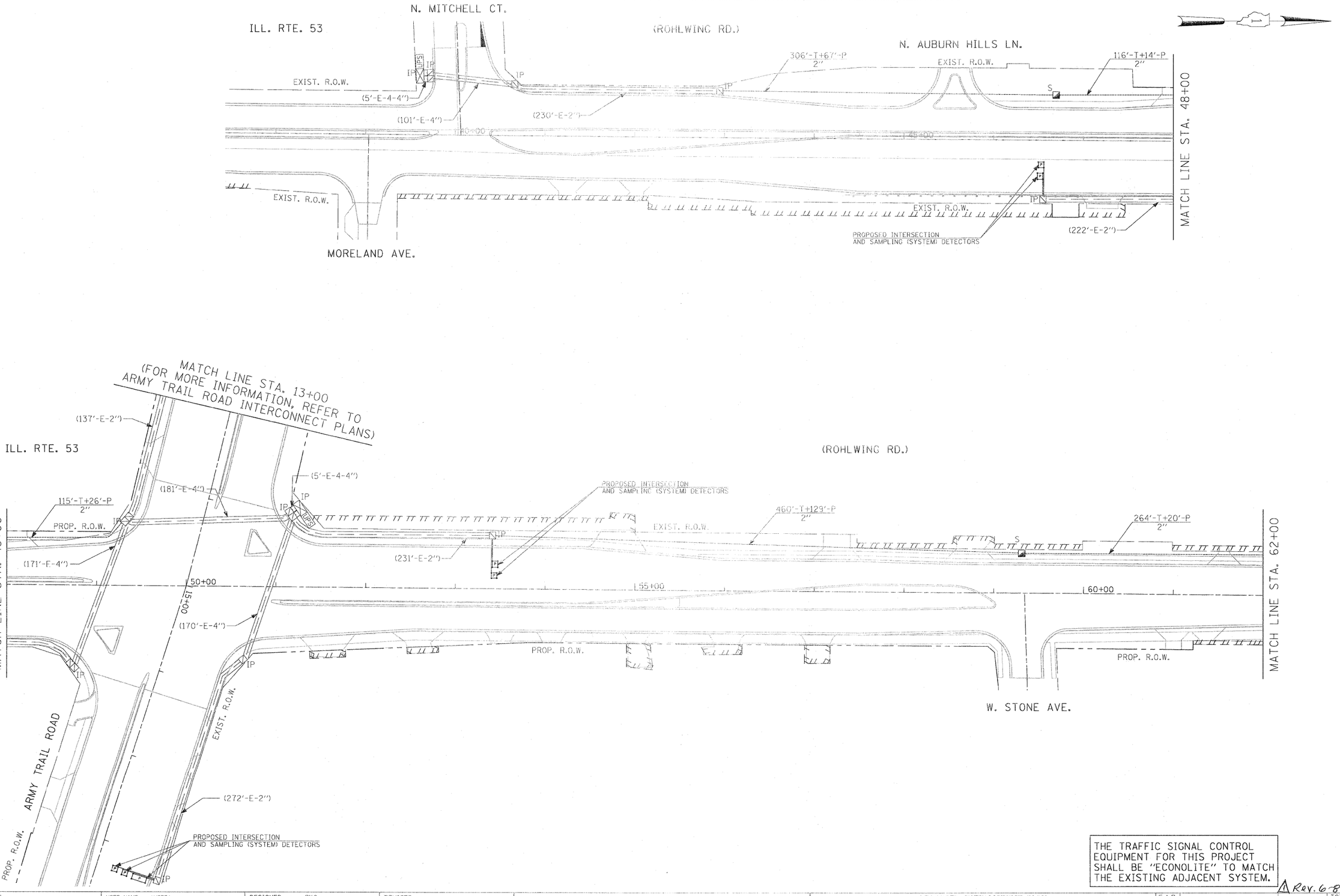
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
U.S. RTE. 20 (LAKE ST.) FROM ILL. RTE. 53 (ROHLWING RD.)
TO SWIFT ROAD (SHEET 1 OF 1)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	537
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



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

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

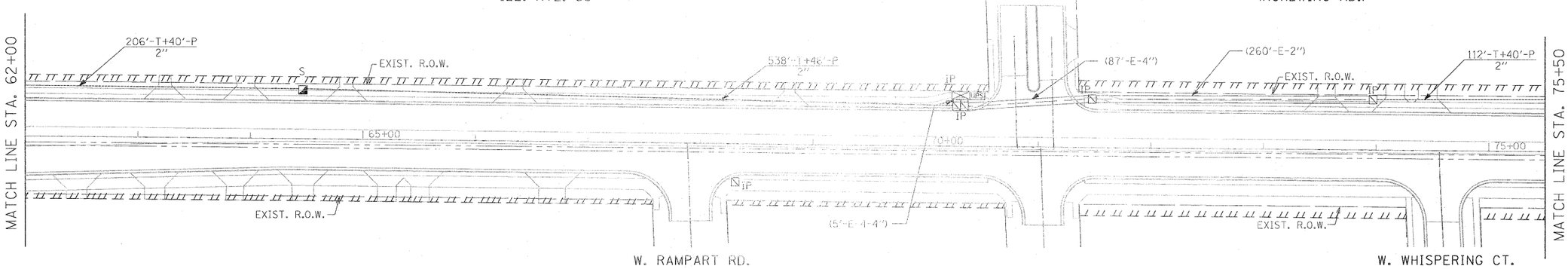
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

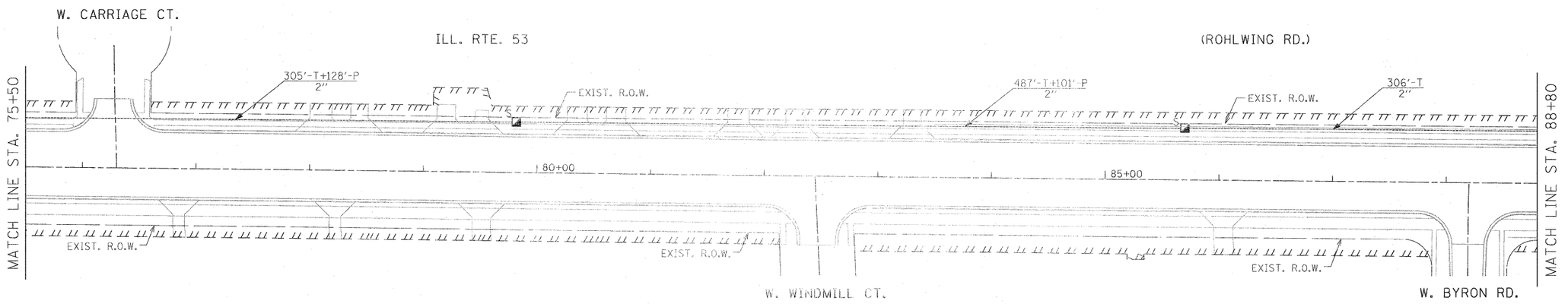
PROPOSED INTERCONNECT PLAN
ILL. RTE. 53 (ROHLWING RD.) FROM N. MITCHELL CT. TO US RTE. 20 (LAKE STREET)
(SHEET 1 OF 4)

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

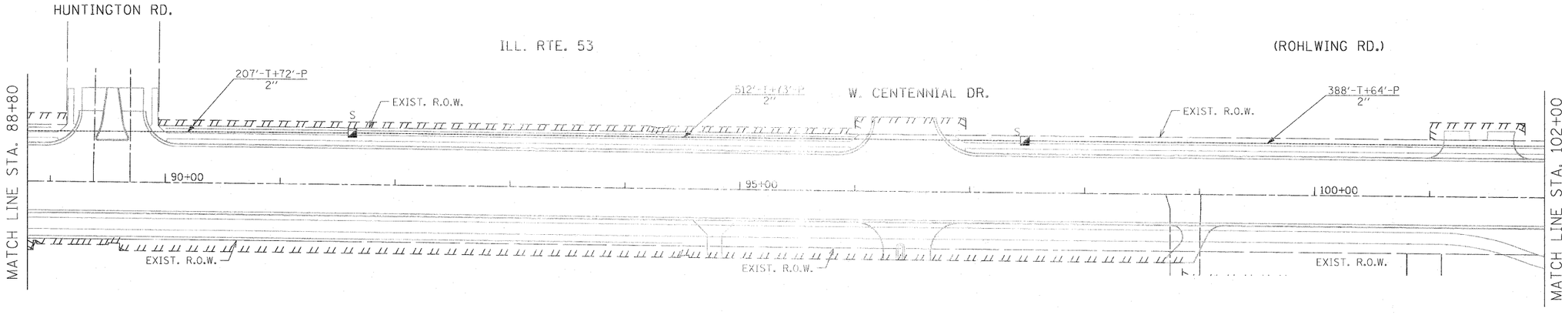
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	538
		CONTRACT NO. 60477		

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





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



Rev. 6-8-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

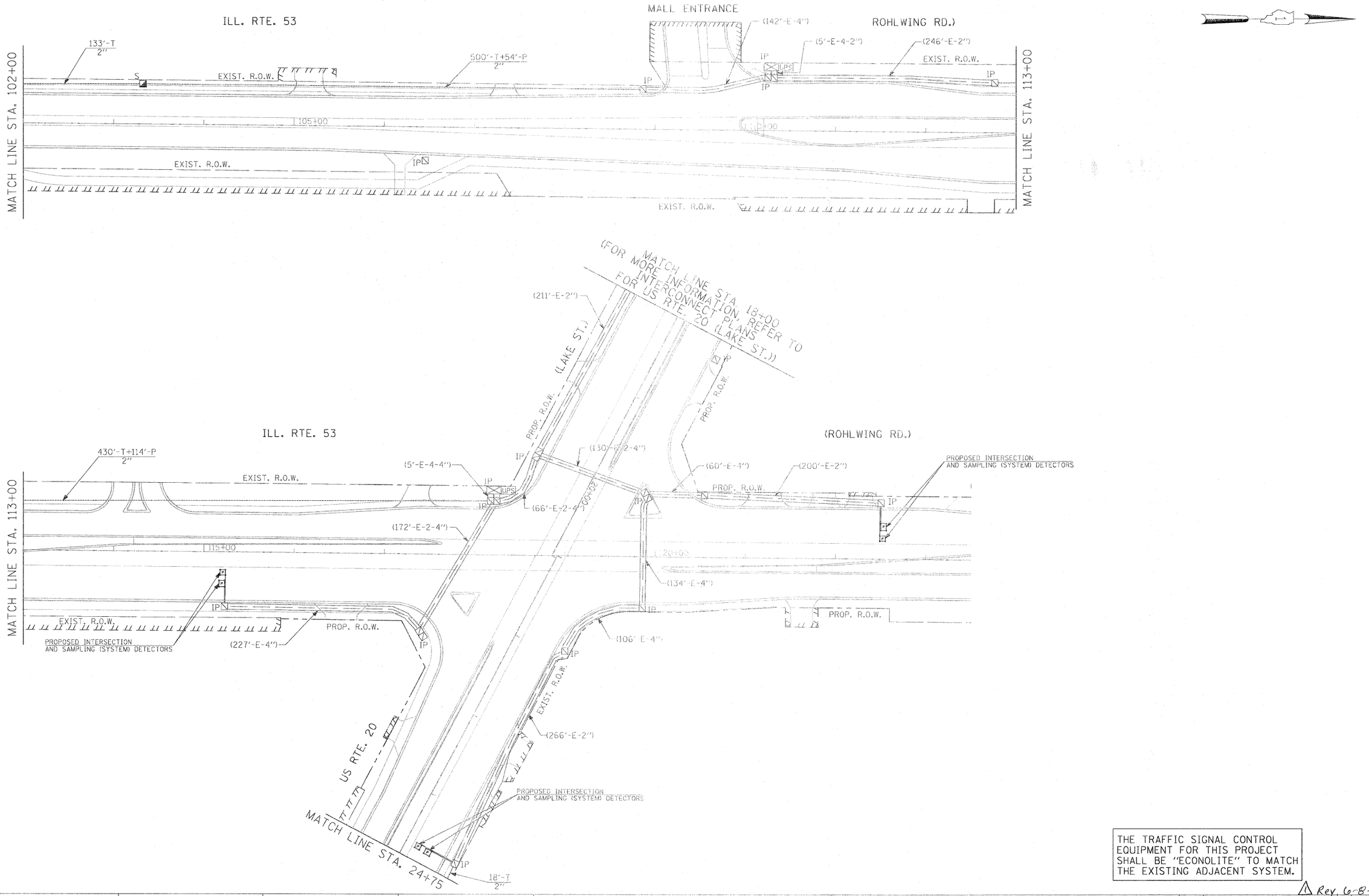
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
ILL. RTE. 53 (ROHLWING RD.) FROM N. MITCHELL CT. TO US RTE. 20 (LAKE STREET)
(SHEET 2 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	539
		CONTRACT NO. 60477		

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



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

Rev. 6-8-11

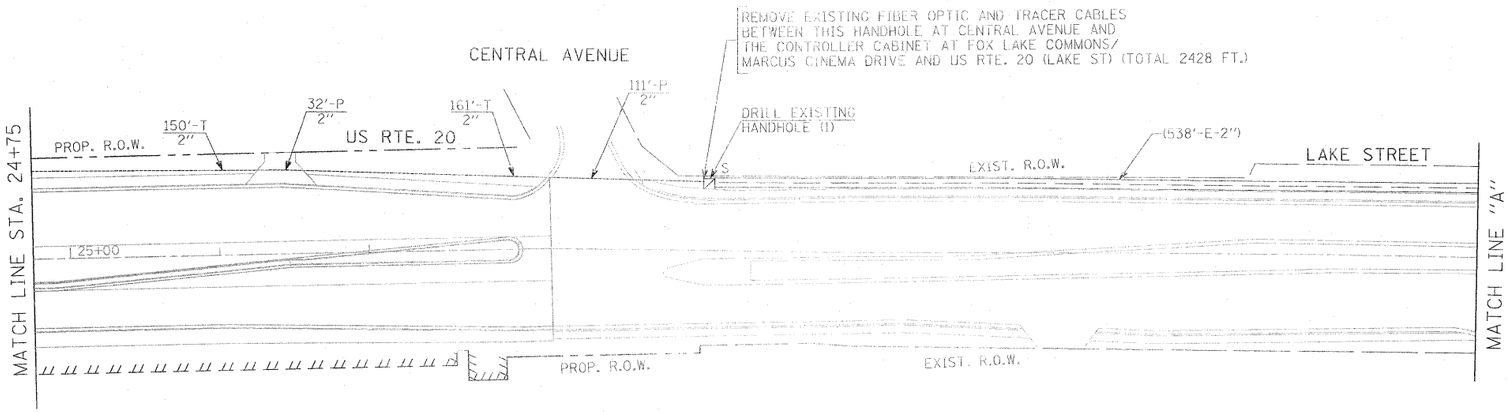
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

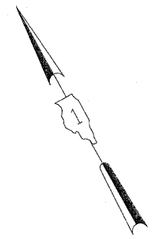
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

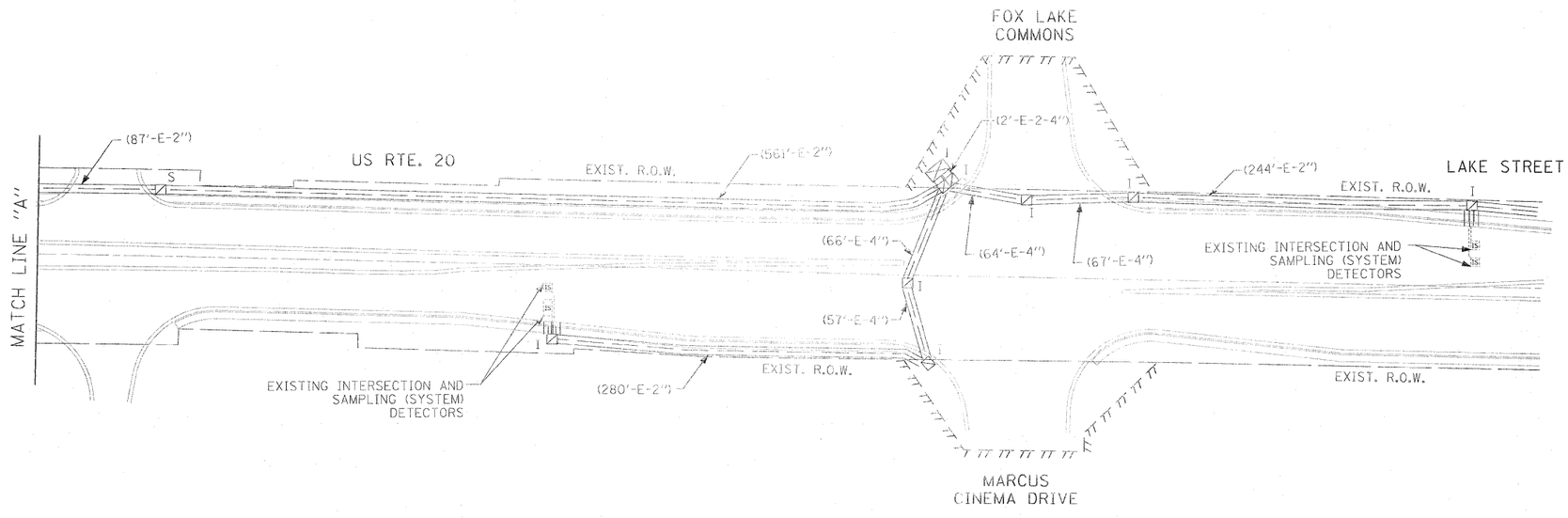
PROPOSED INTERCONNECT PLAN
ILL. RTE. 53 (ROHLWING RD.) FROM N. MITCHELL CT. TO US RTE. 20 (LAKE STREET)
(SHEET 3 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	540
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

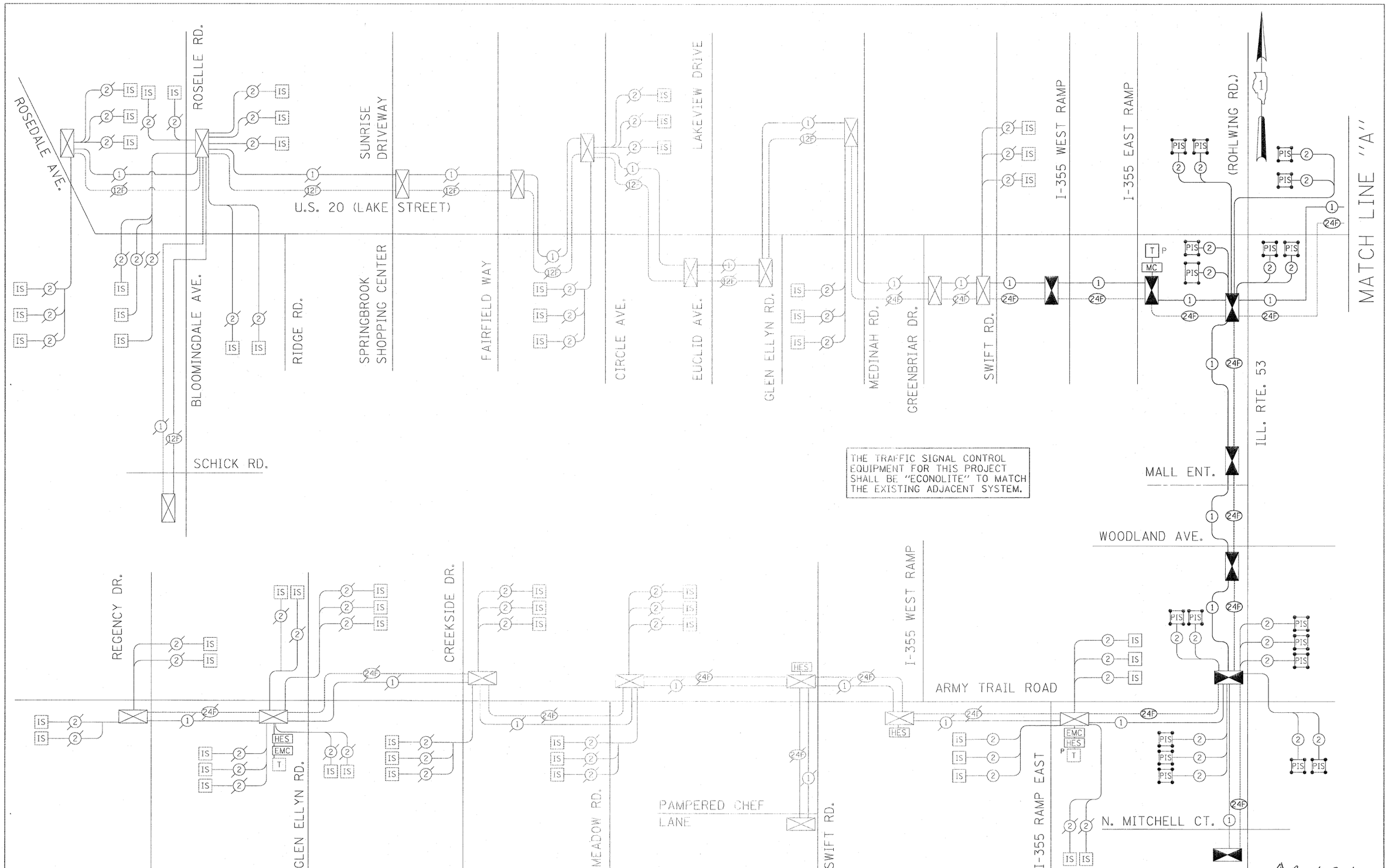






Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN US RTE. 20 (LAKE STREET) FROM ILL. RTE. 83 TO FOX LAKE COMMONS/MARCUS CINEMA DRIVE (SHEET 4 OF 4)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MAA, EA	REVISED -						2578	532B	DuPage	781	540A
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -								CONTRACT NO. 60477		
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

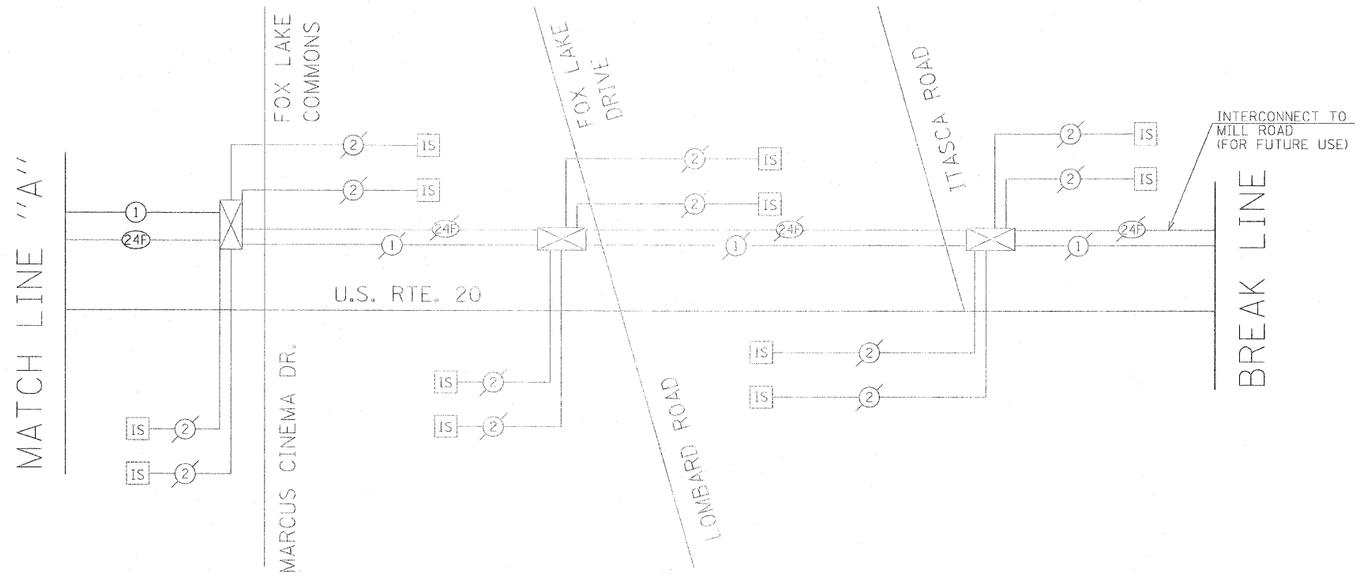
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC
ILL. RTE. 53 (ROHLWING RD.) FROM N. MITCHELL CT. TO U.S. RTE. 20 (LAKE ST.), ARMY TRAIL ROAD FROM REGENCY DR. TO ILL. RTE. 53 (ROHLWING RD.) AND U.S. RTE. 20 (LAKE ST.) FROM ROSEDALE AVE. TO ILL. RTE. 53 (ROHLWING RD.) (SHEET 1 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	541
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

⚠ Rev. 6-8-11



SCHEDULE OF INTERCONNECT QUANTITIES

QUANTITY	UNIT	ITEM
6574	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
1131	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
8	EACH	HANDHOLE
6574	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
2	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MASTER CONTROLLER (SPECIAL)
5341	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING HANDHOLE
14575	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C
8	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL 2
14809	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F

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

⚠ Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

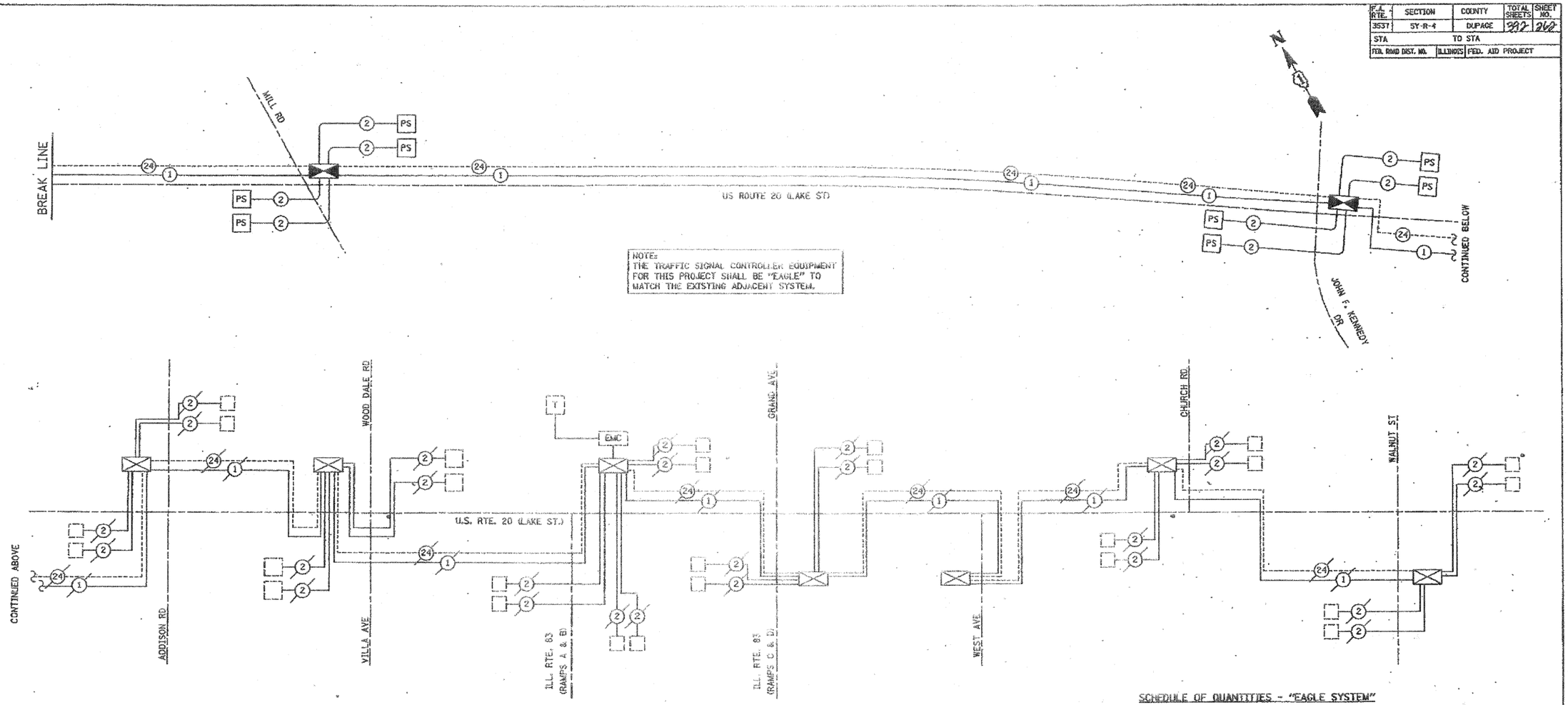
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC
US RTE. 20 (LAKE AVE.) FROM MARCUS CINEMA DR/FOX LAKE COMMONS TO ITASCA RD. (SHEET 2 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	541A
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	5Y-R-4	DUPAGE	262	262
STA		TO STA		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

INTERCONNECT SCHEMATIC LEGEND

- PROPOSED INTERSECTION CONTROLLER
- EXISTING INTERSECTION CONTROLLER
- PROPOSED MASTER CONTROLLER — MC
- EXISTING MASTER CONTROLLER — EMC
- MASTER MASTER CONTROLLER — MMC
- PROPOSED INTERSECTION & SAMPLING (SYSTEM DETECTORS)
- EXISTING INTERSECTION & SAMPLING (SYSTEM DETECTORS)
- PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MMI 2F SMI 2F — (24)
- PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE — (12)
- PROPOSED INTERCONNECT CABLE - NO.18 3 PAIR TWISTED, SHIELDED — (6)
- PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED — (2)
- EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE — (12)
- EXISTING INTERCONNECT CABLE - NO.18 3 PAIR TWISTED, SHIELDED — (6)
- EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED — (2)
- PROPOSED TELEPHONE CONNECTION — T
- PROPOSED ELECTRIC CABLE 1/C (AS SPECIFIED) — (1)
- EXISTING INTERSECTION LOOP DETECTORS PROPOSED SAMPLING (SYSTEM DETECTORS) — P
- EXISTING TELEPHONE CONNECTION — T
- EXISTING ELECTRIC CABLE 1/C (AS SPECIFIED) — (1)
- EXISTING SAMPLING (SYSTEM DETECTORS) — ES
- PROPOSED SAMPLING (SYSTEM DETECTORS) — PS

SCHEDULE OF QUANTITIES - "EAGLE SYSTEM"

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	6976
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	2473
HANDHOLE	EACH	10
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	6976
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	10469
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	10469
DRILL EXISTING HANDHOLE	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

SHEET 2 OF 2

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC & SCHEDULE OF QUANTITIES

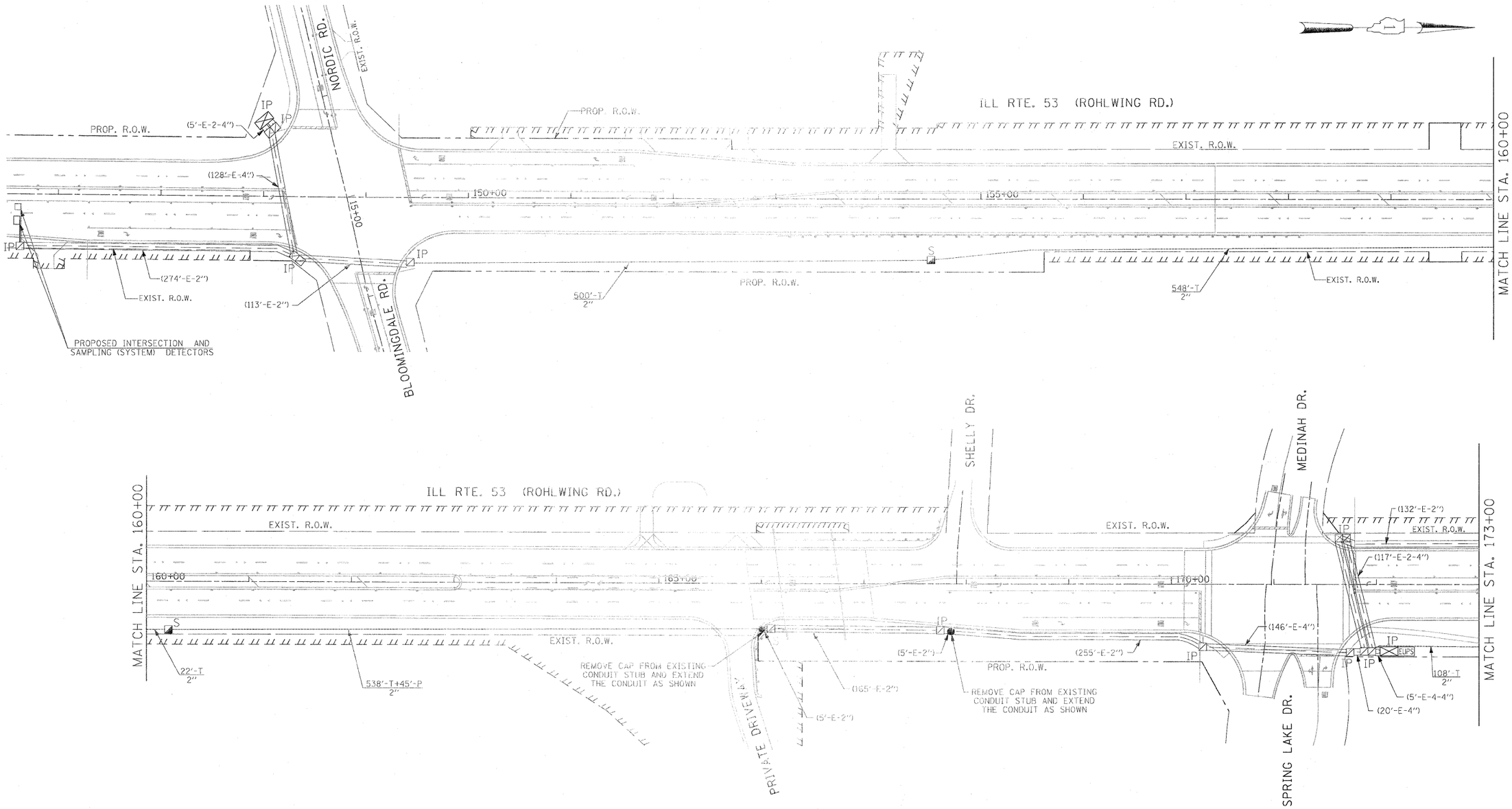
US ROUTE 20 (LAKE STREET)
"EAGLE" SYSTEM

SCALE: NONE
DATE 03/01/05

DRAWN BY: ALS
CHECKED BY: MJH
CHECKED BY: RN

⚠ Rev. 6-8-11

5418.



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

1 Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

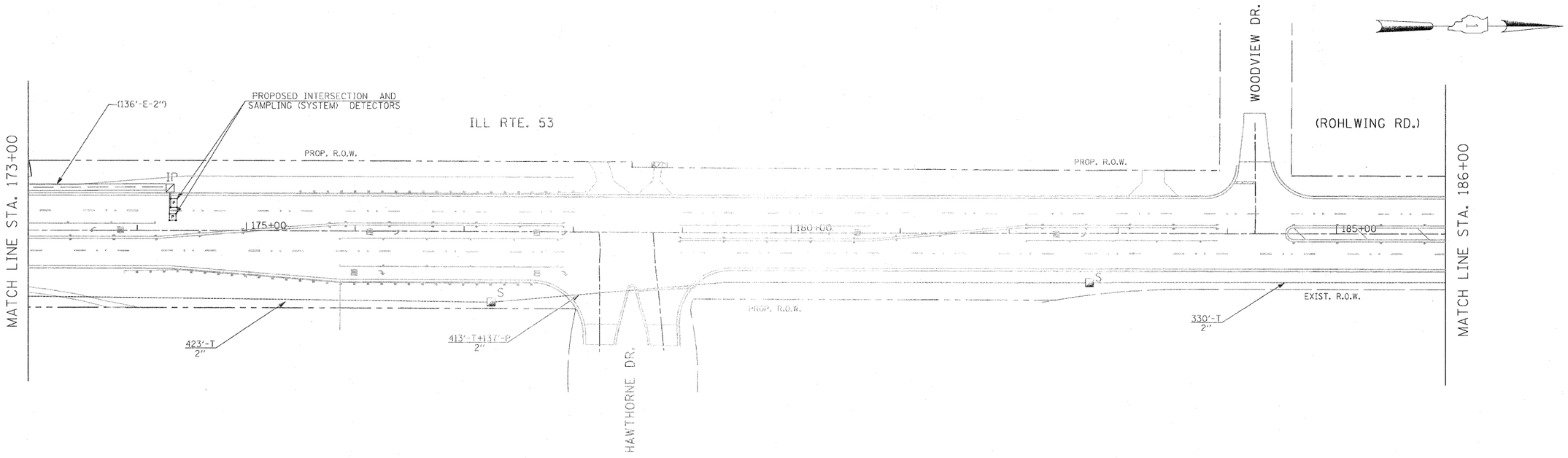
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

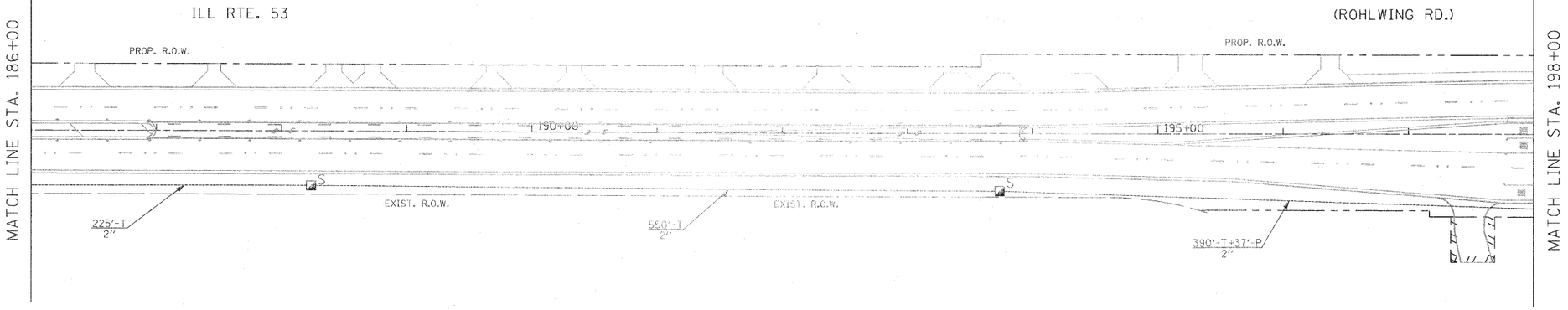
PROPOSED INTERCONNECT PLAN
ILL. RTE. 53 (ROHLWING RD.) FROM NORDIC RD/BLOOMINGDALE RD. TO ELGIN-O'HARE EXPWY/THORNDALE AVE.
(SHEET 1 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	542
		CONTRACT NO. 60477		

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





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

1 Rev. 6-8-11

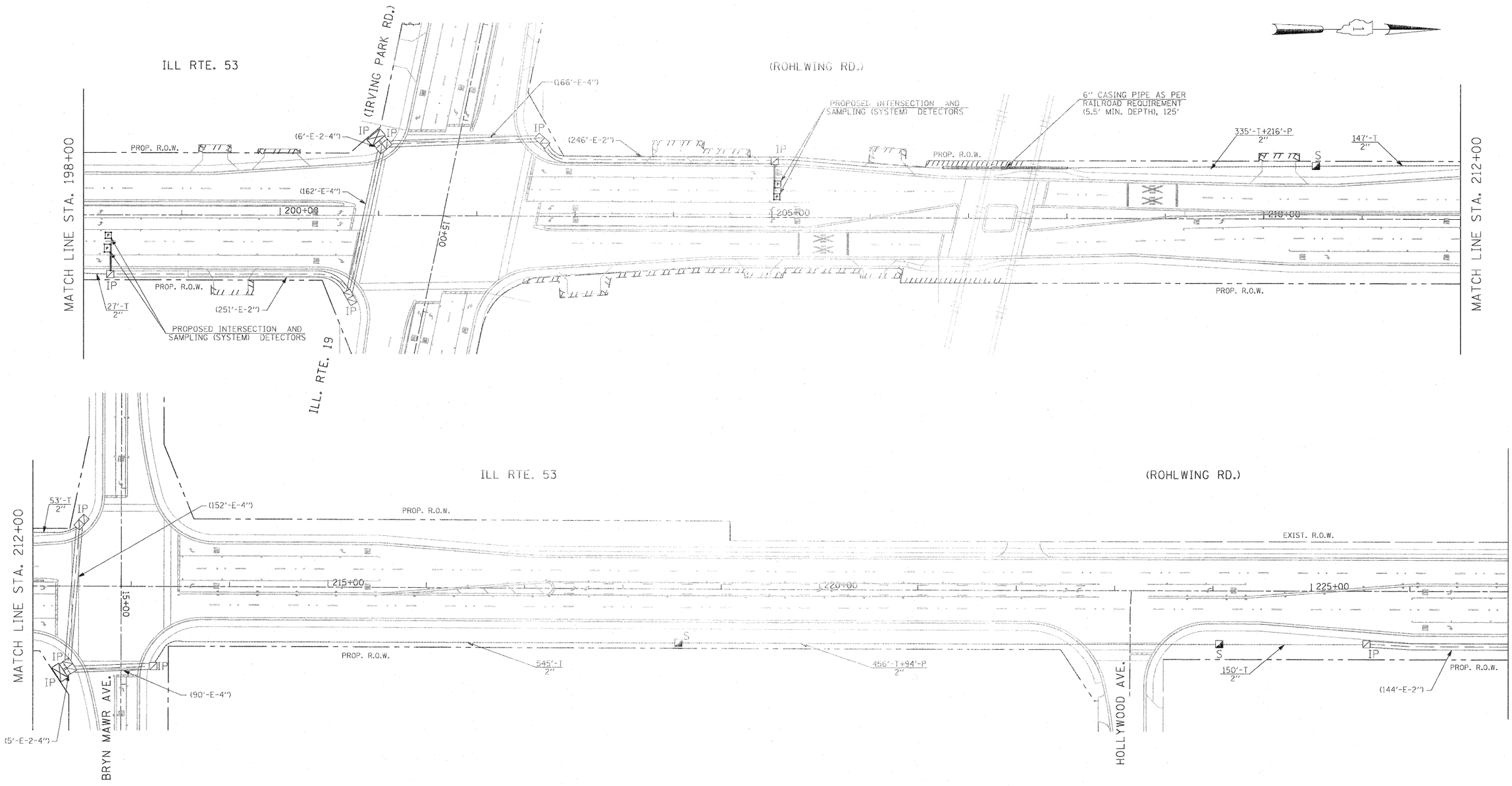
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
ILL. RTE. 53 (ROHLWING RD.) FROM NORDIC RD/BLOOMINGDALE RD. TO ELGIN-O'HARE EXPWY/THORNDALE AVE.
(SHEET 2 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	543
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

⚠1 Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

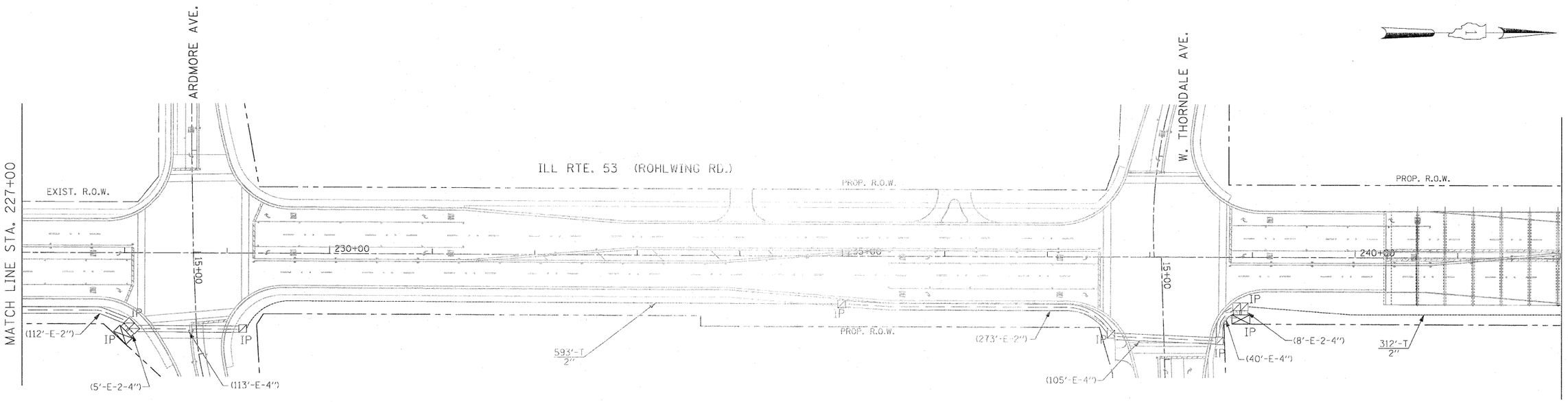
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
ILL RTE 53 (ROHLWING RD.) FROM NORDIC RD/BLOOMINGDALE RD. TO ELGIN-O'HARE EXPWY/THORNDALE AVE.
(SHEET 3 OF 4)

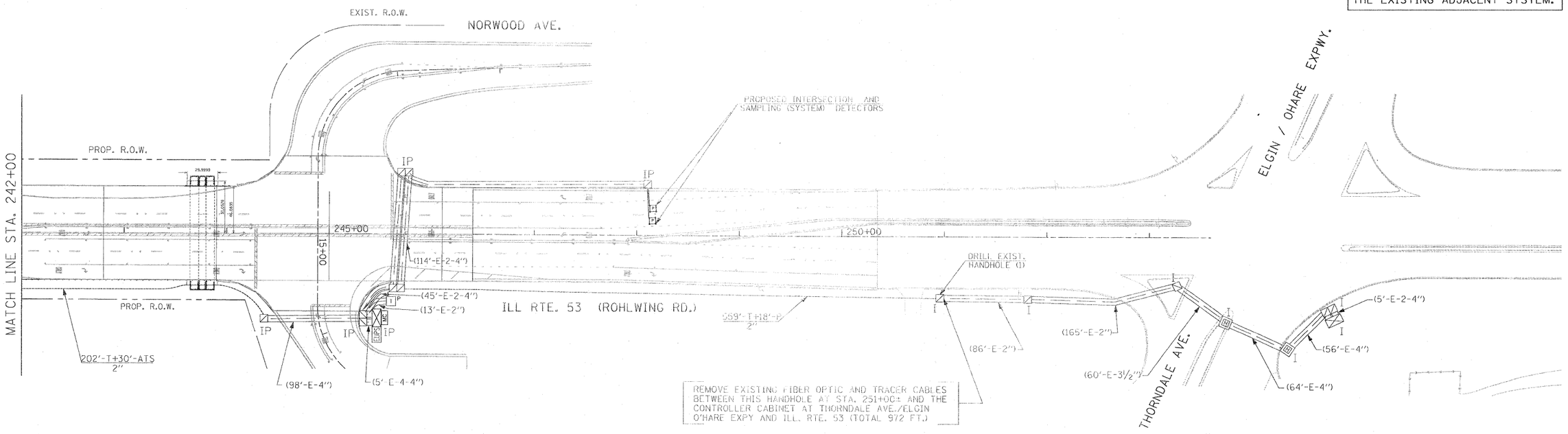
SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	544
		CONTRACT NO. 60477		

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



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



REMOVE EXISTING FIBER OPTIC AND TRACER CABLES BETWEEN THIS HANDHOLE AT STA. 251+00± AND THE CONTROLLER CABINET AT THORNDALE AVE./ELGIN O'HARE EXPY AND ILL. RTE. 53 (TOTAL 972 FT.)

1 Rev. 6-8-11

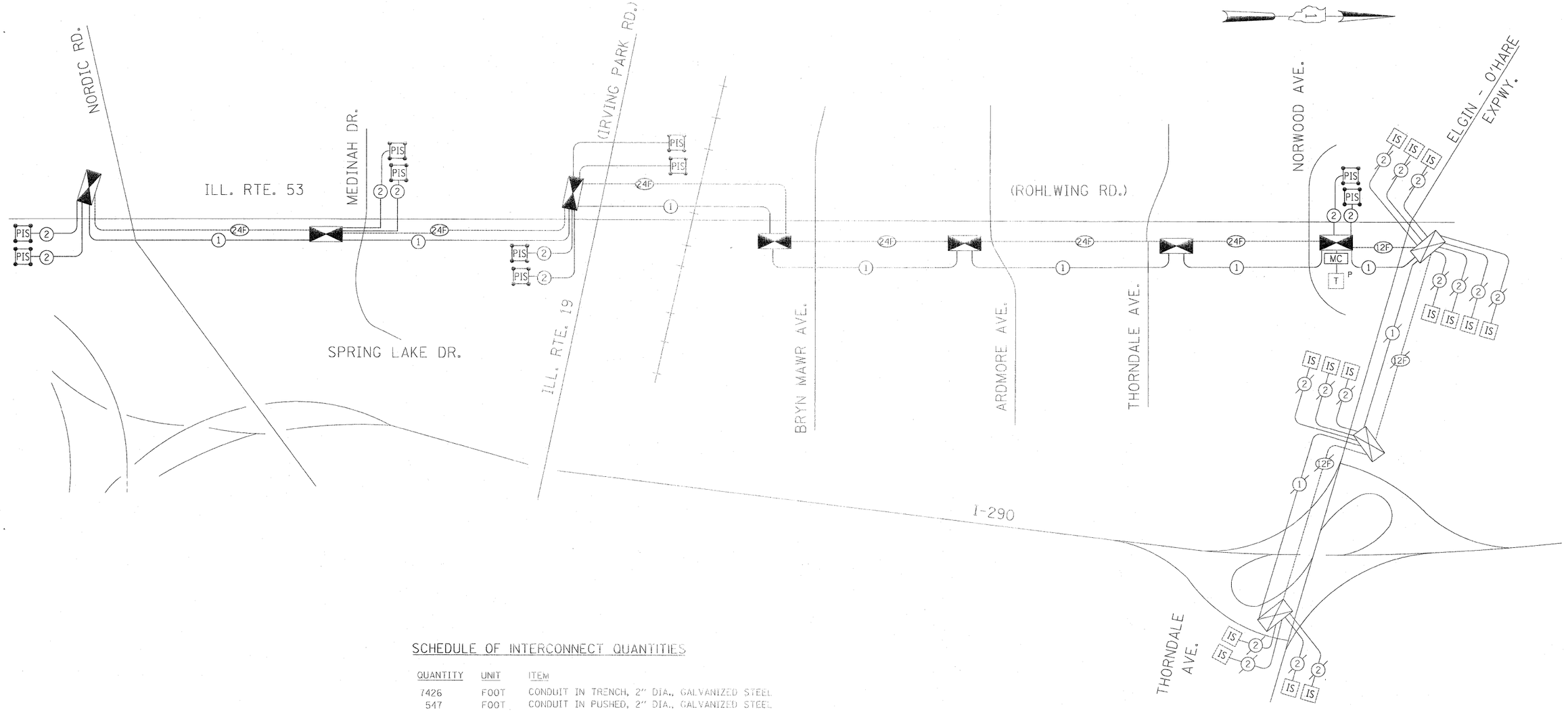
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
ILL. RTE. 53 (ROHLWING RD.) FROM NORDIC RD./BLOOMINGDALE RD. TO ELGIN-O'HARE EXPWY/THORNDALE AVE.
(SHEET 4 OF 4)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	545
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



SCHEDULE OF INTERCONNECT QUANTITIES

QUANTITY	UNIT	ITEM
7426	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
547	FOOT	CONDUIT IN PUSHED, 2" DIA., GALVANIZED STEEL
30	FOOT	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL
9	EACH	HANDHOLE
7426	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MASTER CONTROLLER (SPECIAL)
1	EACH	DRILL EXISTING HANDHOLE
972	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
19	EACH	REMOVE EXISTING HANDHOLE
11834	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 IC
7	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL 2
12016	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
125	FOOT	STEEL CASING 6"

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

A Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

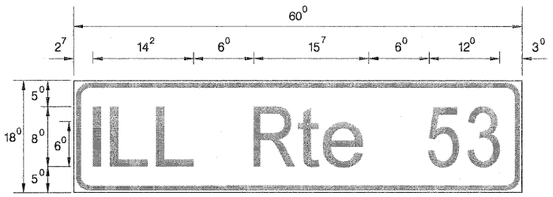
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC
ILLINOIS ROUTE 53 (ROHLWING RD.) FROM NORDIC ROAD TO ELGIN-O'HARE EXPWY/ THORNDALE AVE.

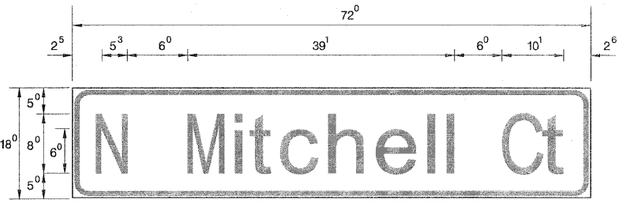
SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	546
		CONTRACT NO. 60477		

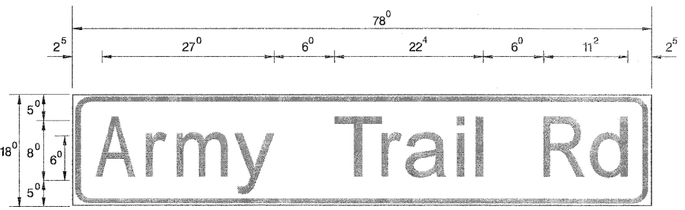
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



___ Sq. M. each
7.5 Sq. Ft. each
22 Required
Design Series D

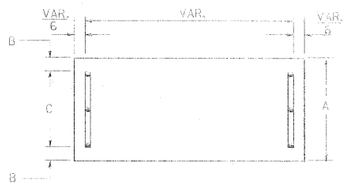


___ Sq. M. each
9.0 Sq. Ft. each
2 Required
Design Series D

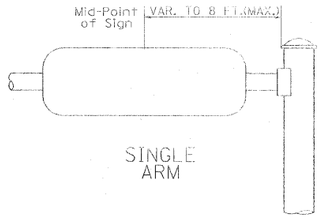


___ Sq. M. each
9.75 Sq. Ft. each
2 Required
Design Series D

SUPPORTING CHANNELS

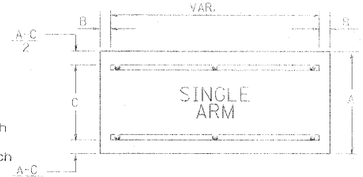


A	B	C
18"	2"	14"



SINGLE ARM

SUPPORTING CHANNELS



___ Sq. M. each
9.75 Sq. Ft. each
2 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:

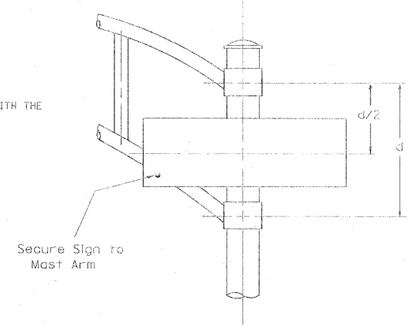
* J.O. HERBERT CO.
MIDLOTHIAN, VA.

* 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.



DUAL ARM

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

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

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 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

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

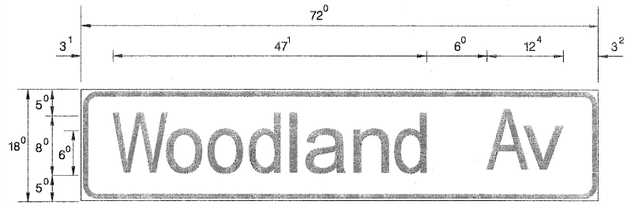
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS (SHEET 1 OF 5)

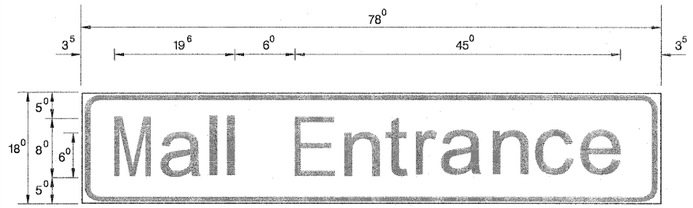
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	547
		CONTRACT NO. 60477		

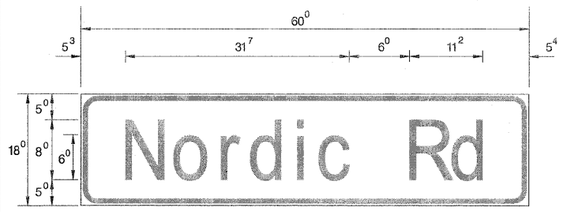
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



- Sq. M. each
9 Sq. Ft. each
2 Required
Design Series D



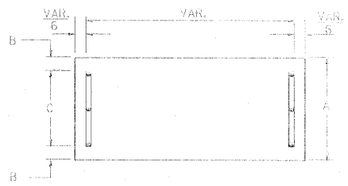
- Sq. M. each
9.75 Sq. Ft. each
2 Required
Design Series D



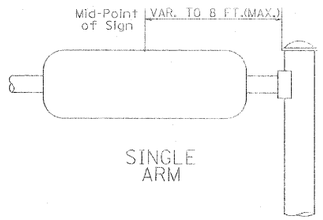
- Sq. M. each
7.5 Sq. Ft. each
2 Required
Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

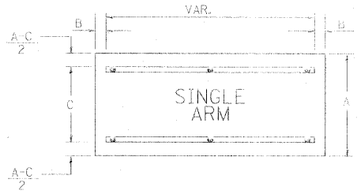
SUPPORTING CHANNELS



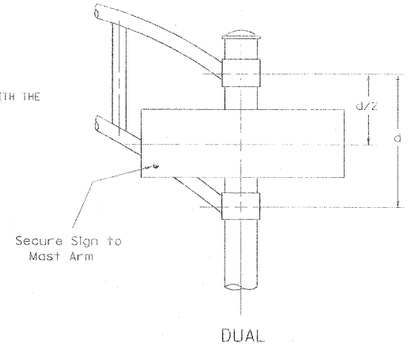
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



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



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

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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.

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2 (3) DENOTES 3"/8

FIRST LETTER \ SECOND LETTER	a c d e g o q	b h i k l m n p r u	f w	j	s t	v y	x	z
SERIES	C D	C D	C D	C D	C D	C D	C D	C D
A W X	1²,1⁴	1⁴,1⁵	1²,1⁴	0⁶,1⁰	1¹,1⁴	0⁶,1⁰	1¹,1²	1²,1⁴
B	1⁴,1⁵	2⁰,2¹	1⁴,1⁵	1¹,1²	1⁴,1⁵	1²,1⁴	1²,1⁴	1⁶,1⁷
C E G	1⁴,1⁵	2⁰,2¹	1²,1⁴	0⁶,1⁰	1²,1⁴	1²,1⁴	1⁴,1⁵	1⁴,1⁵
D O Q R	1⁴,1⁵	2⁰,2¹	1⁴,1⁵	0⁶,1⁰	1²,1⁴	1²,1⁴	1⁴,1⁵	1⁴,1⁵
F	0⁵,0⁶	1⁴,1⁵	0⁶,1⁰	0⁵,0⁶	0⁶,1⁰	0⁶,1⁰	0⁶,1⁰	1¹,1²
H I M N	2⁰,2¹	2²,2⁴	2⁰,2¹	1⁴,1⁵	1⁶,1⁷	1⁶,1⁷	2⁰,2¹	2⁰,2¹
J U	2⁰,2¹	2⁰,2¹	1⁶,1⁷	1⁴,1⁵	1⁶,1⁷	1⁶,1⁷	1⁶,1⁷	2⁰,2¹
K L	1¹,1²	1⁶,1⁷	1¹,1²	0⁵,0⁶	1¹,1²	1¹,1²	1¹,1²	1²,1⁴
P	1²,1⁴	1⁴,1⁵	1²,1⁴	0⁵,0⁶	1¹,1²	1¹,1²	1²,1⁴	1²,1⁴
S	1²,1⁴	1⁶,1⁷	1²,1⁴	0⁶,1⁰	1²,1⁴	1²,1⁴	1²,1⁴	1²,1⁴
T	1¹,1²	1⁶,1⁷	0⁶,1⁰	0⁶,1⁰	1¹,1²	1¹,1²	1¹,1²	1²,1⁴
V	0⁶,1⁰	1⁴,1⁵	1¹,1²	0⁶,1⁰	1²,1⁴	1²,1⁴	1²,1⁴	1²,1⁴
Y	0⁵,0⁶	1⁴,1⁵	0⁶,1⁰	0⁵,0⁶	0⁵,0⁷	0⁵,0⁶	0⁶,1⁰	1¹,1²
Z	1⁶,1⁷	2²,2⁴	1⁶,1⁷	1²,1⁴	1⁶,1⁷	1⁶,1⁷	1⁶,1⁷	2⁰,2¹

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

FIRST LETTER \ SECOND LETTER	a c d é 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 n g i j l m n q u	1⁶,1⁷	2²,2⁴	1⁶,1⁷	1²,1⁴	1⁴,1⁵	1⁴,1⁵	1⁶,1⁷	1⁶,1⁷
b f k o p s	1²,1⁴	1⁶,1⁷	1¹,1²	0⁵,0⁶	1¹,1²	1¹,1²	1²,1⁴	1²,1⁴
c e	1²,1⁴	1⁶,1⁷	1²,1⁴	0⁶,1⁰	1²,1⁴	1²,1⁴	1²,1⁴	1²,1⁴
r	0⁶,1⁰	1²,1⁴	0⁶,1⁰	0³,0³	0⁵,0⁶	0⁵,0⁶	0⁶,1⁰	0⁶,1⁰
t z	1²,1⁴	1⁶,1⁷	1²,1⁴	0⁶,1⁰	1¹,1²	1¹,1²	1²,1⁴	1²,1⁴
v y	1¹,1²	1⁴,1⁵	1¹,1²	0⁵,0⁶	1¹,1²	1¹,1²	1¹,1²	1²,1⁴
w	1¹,1²	1⁴,1⁵	1¹,1²	0⁵,0⁶	1¹,1²	1¹,1²	1¹,1²	1²,1⁴
x	1²,1⁴	1⁶,1⁷	1¹,1²	0⁵,0⁶	1¹,1²	1¹,1²	1²,1⁴	1²,1⁴

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	1⁶,1⁷	1⁶,1⁷	1⁴,1⁵	1²,1⁴	1⁴,1⁵	1⁴,1⁵	1⁶,1⁷	1²,1⁴	1⁶,1⁷	1⁶,1⁷
1	2⁰,2¹	2⁰,2¹	2⁰,2¹	1⁶,1⁷	1⁴,1⁵	2⁰,2¹	2⁰,2¹	1⁴,1⁵	2⁰,2¹	2⁰,2¹
2 3 4	1⁴,1⁵	1⁴,1⁵	1⁴,1⁵	1²,1⁴	1²,1⁴	1⁴,1⁵	1⁴,1⁵	1¹,1²	1⁶,1⁷	1⁴,1⁵
5	1⁴,1⁵	1⁴,1⁵	1⁴,1⁵	1¹,1²	1¹,1²	1⁴,1⁵	1⁴,1⁵	1¹,1²	1⁴,1⁵	1⁴,1⁵
6	1⁶,1⁷	1⁴,1⁵	1⁴,1⁵	1²,1⁵	1²,1⁴	1⁴,1⁵	1⁴,1⁵	1¹,1²	1⁴,1⁵	1⁴,1⁵
7	1²,1⁴	1²,1⁴	1⁴,1⁵	1²,1⁵	0⁵,0⁶	1²,1⁴	1⁴,1⁵	1¹,1²	1⁴,1⁵	1²,1⁴
8	1⁶,1⁷	1⁶,1⁷	1⁴,1⁵	1²,1⁵	1²,1⁴	1⁴,1⁵	1⁶,1⁷	1²,1⁴	1⁶,1⁷	1⁴,1⁵

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	3⁶	5⁰	5⁰	6⁵	a	3⁵	4²
B	3²	4⁰	4³	5³	b	3⁵	4²
C	3²	4⁰	4³	5³	c	3⁵	4¹
D	3²	4⁰	4³	5³	d	3⁵	4²
E	3⁰	3⁵	4⁰	4⁷	e	3⁵	4²
F	3⁰	3⁵	4⁰	4⁷	f	2³	2⁶
G	3²	4⁰	4³	5³	g	3⁵	4²
H	3²	4⁰	4³	5³	h	3⁵	4²
I	0⁷	0⁷	1¹	1²	i	1¹	1¹
J	3⁰	3⁶	4⁰	5⁰	j	2⁰	2²
K	3²	4¹	4³	5⁴	k	3⁵	4²
L	3⁰	3⁵	4⁰	4⁷	l	1¹	1¹
M	3⁷	4⁵	5¹	6¹	m	6⁰	7⁰
N	3²	4⁰	4³	5³	n	3⁵	4²
O	3⁴	4²	4⁵	5⁵	o	3⁶	4³
P	3²	4⁰	4³	5³	p	3⁵	4²
Q	3⁴	4²	4⁵	5⁵	q	3⁵	4²
R	3²	4⁰	4³	5³	r	2⁶	3²
S	3²	4⁰	4³	5³	s	3⁶	4²
T	3⁰	3⁵	4⁰	4⁷	t	2⁷	3²
U	3²	4⁰	4³	5³	u	3⁵	4²
V	3⁵	4⁴	4⁷	6⁰	v	4²	4⁷
W	4⁴	5²	6⁰	7⁰	w	5⁵	6⁴
X	3⁴	4⁰	4⁵	5³	x	4⁴	5¹
Y	3⁶	5⁰	5⁰	6⁶	y	4⁶	5³
Z	3²	4⁰	4³	5³	z	3⁶	4³

NUMBER	6 INCH SERIES C	6 INCH SERIES D	8 INCH SERIES C	8 INCH SERIES D
1	1²	1⁴	1⁵	2⁰
2	3²	4⁰	4³	5³
3	3²	4⁰	4³	5³
4	3⁵	4³	4⁷	5⁷
5	3²	4⁰	4³	5³
6	3²	4⁰	4³	5³
7	3²	4⁰	4³	5³
8	3²	4⁰	4³	5³
9	3²	4⁰	4³	5³
0	3⁴	4²	4⁵	5⁵

Δ Rev. 6-8-11

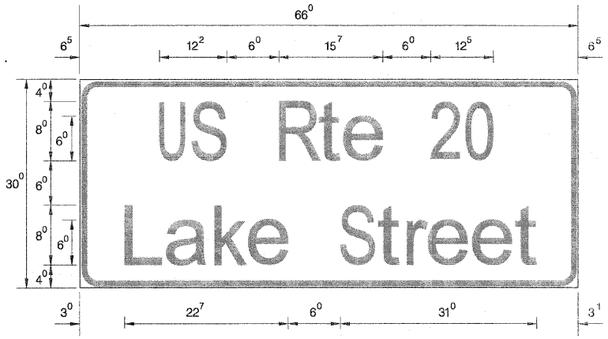
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

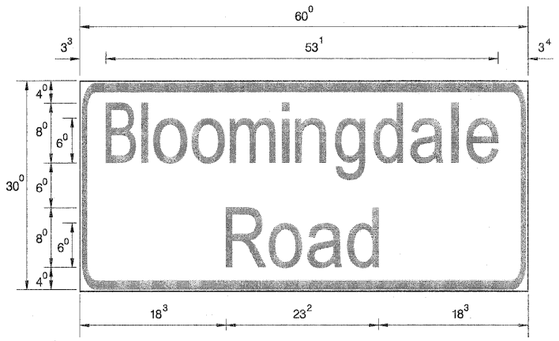
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS (SHEET 2 OF 5)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	548
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

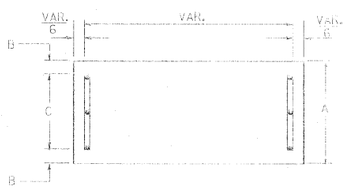




NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

SUPPORTING CHANNELS

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



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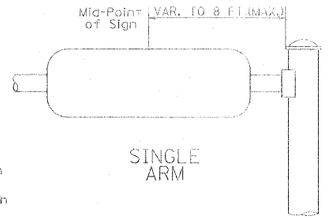
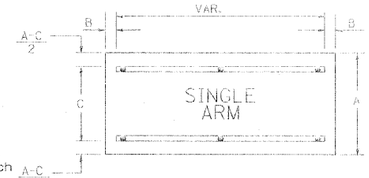


SINGLE ARM

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

SUPPORTING CHANNELS



SINGLE ARM

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

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

GENERAL NOTES

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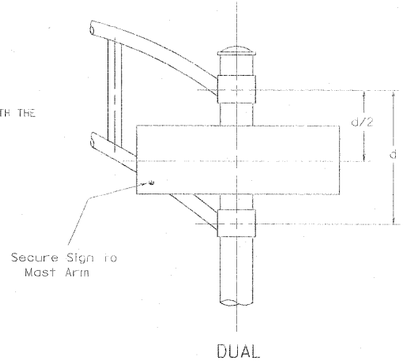


DUAL ARM

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

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

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 d g i j l m n q u		b f k o p s		c e		r		t z		v y		w		x	
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 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

A Rev. 6-8-11

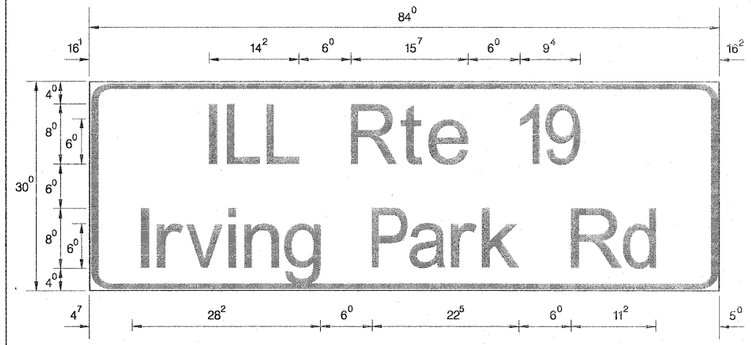
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

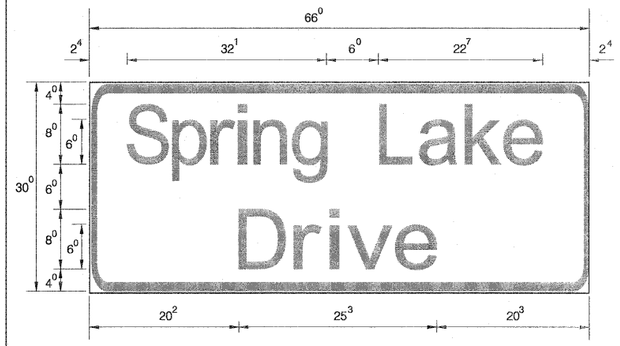
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

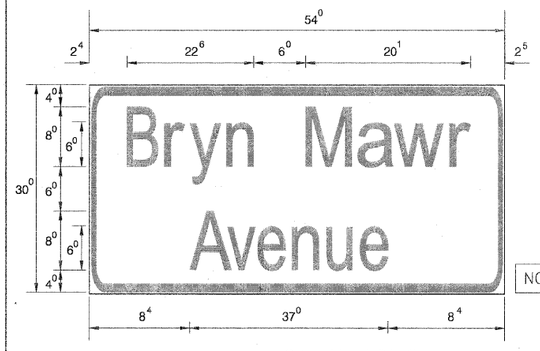
MAST ARM MOUNTED STREET NAME SIGNS (SHEET 3 OF 5)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	549
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		







NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

GENERAL NOTES

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

* J.O. HERBERT CO.
MIDLOTHIAN, VA.

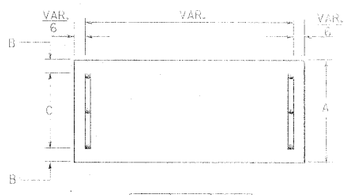
* WESTERN REMAC INC.
WOODRIDGE, IL.

PARTS LISTING:

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

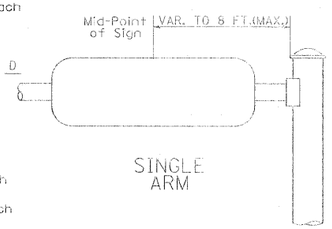
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

SUPPORTING CHANNELS



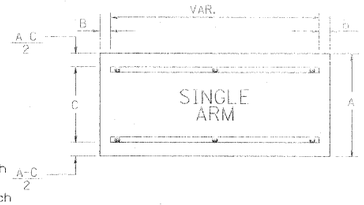
A	B	C
18"	2"	14"

__ Sq. M. each
17.5 Sq. Ft. each
2 Required
Design Series D



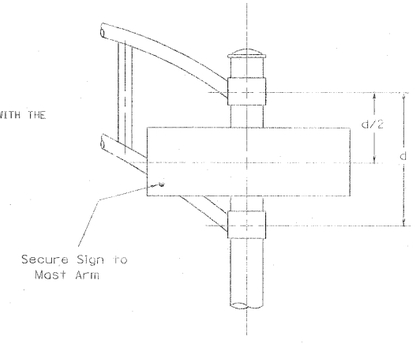
__ Sq. M. each
13.75 Sq. Ft. each
2 Required
Design Series D

SUPPORTING CHANNELS



__ Sq. M. each
11.25 Sq. Ft. each
2 Required
Design Series D

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



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

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2 (3) DENOTES 3/8"

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1²	1⁴	1⁴	1⁵	1²	1⁴	0⁶	1⁰	1¹	1⁴	0⁶	1⁰	1¹	1²	1²	1⁴
B	1⁴	1⁵	2⁰	2¹	1⁴	1⁵	1¹	1²	1⁴	1⁵	1²	1⁴	1²	1⁴	1⁶	1⁷
C E G	1⁴	1⁵	2⁰	2¹	1²	1⁴	0⁶	1⁰	1²	1⁴	1²	1⁴	1⁴	1⁵	1⁴	1⁵
D O Q R	1⁴	1⁵	2⁰	2¹	1⁴	1⁵	0⁶	1⁰	1²	1⁴	1²	1⁴	1⁴	1⁵	1⁴	1⁵
F	0⁵	0⁶	1⁴	1⁵	0⁶	1⁰	0⁵	0⁶	0⁶	1⁰	0⁶	1⁰	0⁶	1⁰	1¹	1²
H I M N	2⁰	2¹	2²	2⁴	2⁰	2¹	1⁴	1⁵	1⁶	1⁷	1⁶	1⁷	2⁰	2¹	2⁰	2¹
J U	2⁰	2¹	2⁰	2¹	1⁶	1⁷	1⁴	1⁵	1⁶	1⁷	1⁶	1⁷	1⁶	1⁷	2⁰	2¹
K L	1¹	1²	1⁶	1⁷	1¹	1²	0⁵	0⁶	1¹	1²	1¹	1²	1¹	1²	1²	1⁴
P	1²	1⁴	1⁴	1⁵	1²	1⁴	0⁵	0⁶	1¹	1²	1¹	1²	1²	1⁴	1²	1⁴
S	1²	1⁴	1⁶	1⁷	1²	1⁴	0⁶	1⁰	1²	1⁴	1²	1⁴	1²	1⁴	1²	1⁴
T	1¹	1²	1⁶	1⁷	0⁶	1⁰	0⁶	1⁰	1¹	1²	1¹	1²	1¹	1²	1²	1⁴
V	0⁶	1⁰	1⁴	1⁵	1¹	1²	0⁶	1⁰	1²	1⁴	1²	1⁴	1²	1⁴	1²	1⁴
Y	0⁵	0⁶	1⁴	1⁵	0⁶	1⁰	0⁵	0⁶	0⁵	0⁷	0⁵	0⁶	0⁶	1⁰	1¹	1²
Z	1⁶	1⁷	2²	2⁴	1⁶	1⁷	1²	1⁴	1⁶	1⁷	1⁶	1⁷	1⁶	1⁷	2⁰	2¹

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	1⁶	1⁷	2²	2⁴	1⁶	1⁷	1²	1⁴	1⁴	1⁵	1⁴	1⁵	1⁶	1⁷	1⁶	1⁷
b f k o p s	1²	1⁴	1⁶	1⁷	1¹	1²	0⁵	0⁶	1¹	1²	1¹	1²	1²	1⁴	1²	1⁴
c e	1²	1⁴	1⁶	1⁷	1²	1⁴	0⁶	1⁰	1²	1⁴	1²	1⁴	1²	1⁴	1²	1⁴
r	0⁶	1⁰	1²	1⁴	0⁶	1⁰	0³	0³	0⁵	0⁶	0⁵	0⁶	0⁶	1⁰	0⁶	1⁰
t z	1²	1⁴	1⁶	1⁷	1²	1⁴	0⁶	1⁰	1¹	1²	1¹	1²	1²	1⁴	1²	1⁴
v y	1¹	1²	1⁴	1⁵	1¹	1²	0⁵	0⁶	0⁶	1⁰	0⁶	1⁰	1¹	1²	1¹	1²
w	1¹	1²	1⁴	1⁵	1¹	1²	0⁵	0⁶	1¹	1²	1¹	1²	1¹	1²	1²	1⁴
x	1²	1⁴	1⁶	1⁷	1¹	1²	0⁵	0⁶	1¹	1²	1¹	1²	1¹	1²	1²	1⁴

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	1⁶	1⁷	1⁶	1⁷	1⁴	1⁵	1²	1⁴	1⁴	1⁵	1⁴	1⁵	1⁶	1⁷	1²	1⁴	1⁶	1⁷	1⁶	1⁷
1	2⁰	2¹	2⁰	2¹	2⁰	2¹	1⁶	1⁷	1⁴	1⁵	2⁰	2¹	2⁰	2¹	1⁴	1⁵	2⁰	2¹	2⁰	2¹
2 3 4	1⁴	1⁵	1⁴	1⁵	1⁴	1⁵	1²	1⁴	1²	1⁴	1⁴	1⁵	1⁴	1⁵	1¹	1²	1⁶	1⁷	1⁴	1⁵
5	1⁴	1⁵	1⁴	1⁵	1⁴	1⁵	1¹	1²	1¹	1²	1⁴	1⁵	1⁴	1⁵	1¹	1²	1⁴	1⁵	1⁴	1⁵
6	1⁶	1⁷	1⁴	1⁵	1⁴	1⁵	1²	1⁵	1²	1⁴	1⁴	1⁵	1⁴	1⁵	1¹	1²	1⁴	1⁵	1⁴	1⁵
7	1²	1⁴	1²	1⁴	1⁴	1⁵	1²	1⁵	0⁵	0⁶	1²	1⁴	1⁴	1⁵	1¹	1²	1⁴	1⁵	1²	1⁴
8	1⁶	1⁷	1⁶	1⁷	1⁴	1⁵	1²	1⁵	1²	1⁴	1⁴	1⁵	1⁶	1⁷	1²	1⁴	1⁶	1⁷	1⁴	1⁵

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS SERIES C	D	8 INCH UPPER CASE LETTERS SERIES C	D	LETTERS	6 INCH LOWER CASE LETTERS SERIES C	D
A	3⁶	5⁰	5⁰	6⁵	a	3⁵	4²
B	3²	4⁰	4³	5³	b	3⁵	4²
C	3²	4⁰	4³	5³	c	3⁵	4¹
D	3²	4⁰	4³	5³	d	3⁵	4²
E	3⁰	3⁵	4⁰	4⁷	e	3⁵	4²
F	3⁰	3⁵	4⁰	4⁷	f	2³	2⁶
G	3²	4⁰	4³	5³	g	3⁵	4²
H	3²	4⁰	4³	5³	h	3⁵	4²
I	0⁷	0⁷	1¹	1²	i	1¹	1¹
J	3⁰	3⁶	4⁰	5⁰	j	2⁰	2²
K	3²	4¹	4³	5⁴	k	3⁵	4²
L	3⁰	3⁵	4⁰	4⁷	l	1¹	1¹
M	3⁷	4⁵	5¹	6¹	m	6⁰	7⁰
N	3²	4⁰	4³	5³	n	3⁵	4²
O	3⁴	4²	4⁵	5⁵	o	3⁶	4³
P	3²	4⁰	4³	5³	p	3⁵	4²
Q	3⁴	4²	4⁵	5⁵	q	3⁵	4²
R	3²	4⁰	4³	5³	r	2⁶	3²
S	3²	4⁰	4³	5³	s	3⁶	4²
T	3⁰	3⁵	4⁰	4⁷	t	2⁷	3²
U	3²	4⁰	4³	5³	u	3⁵	4²
V	3⁵	4⁴	4⁷	6⁰	v	4²	4⁷
W	4⁴	5²	6⁰	7⁰	w	5⁵	6⁴
X	3⁴	4⁰	4⁵	5³	x	4⁴	5¹
Y	3⁶	5⁰	5⁰	6⁶	y	4⁶	5³
Z	3²	4⁰	4³	5³	z	3⁶	4³

NUMBER	6 INCH SERIES C	D	8 INCH SERIES C	D
1	1²	1⁴	1⁵	2⁰
2	3²	4⁰	4³	5³
3	3²	4⁰	4³	5³
4	3⁵	4³	4⁷	5⁷
5	3²	4⁰	4³	5³
6	3²	4⁰	4³	5³
7	3²	4⁰	4³	5³
8	3²	4⁰	4³	5³
9	3²	4⁰	4³	5³
0	3⁴	4²	4⁵	5⁵

Rev. 6-8-11

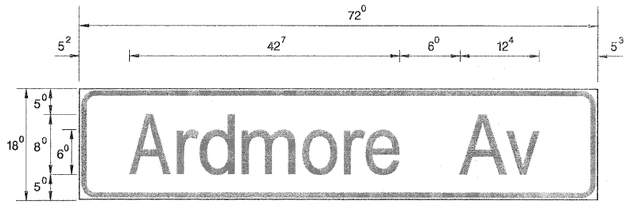
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

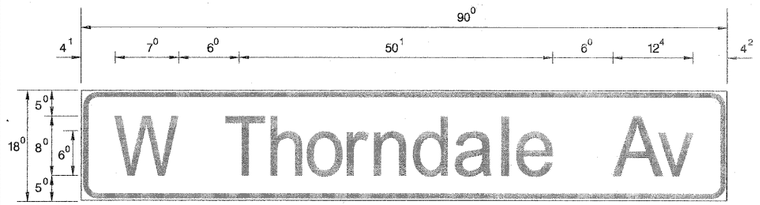
MAST ARM MOUNTED STREET NAME SIGNS (SHEET 4 OF 5)

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

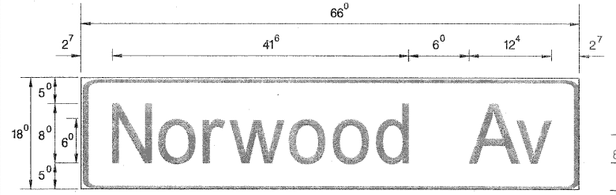
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	550
		CONTRACT NO. 60477		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

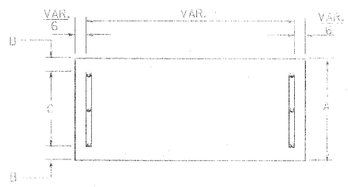


___ Sq. M. each
11.25 Sq. Ft. each
2 Required
Design Series D

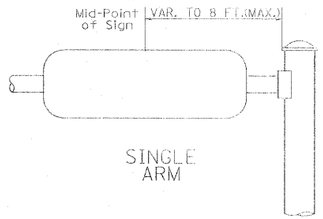


___ Sq. M. each
8.25 Sq. Ft. each
2 Required
Design Series D

SUPPORTING CHANNELS

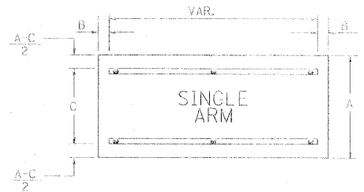


A	B	C
18"	2"	14"



SINGLE ARM

SUPPORTING CHANNELS



SINGLE ARM

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".
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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:

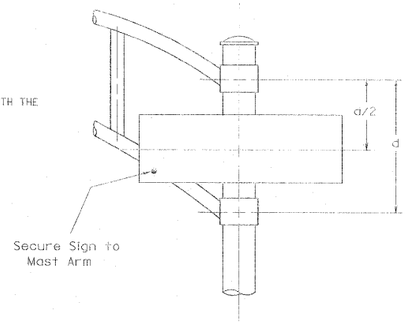
* J.O. HERBERT CO.
MIDLOTHIAN, VA.

* 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.



DUAL ARM

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

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

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 C	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	D	8 INCH UPPER CASE LETTERS SERIES C	D	LETTERS	6 INCH LOWER CASE LETTERS SERIES C	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	D	8 INCH SERIES C	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}

Rev. 6-8-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - MAA, EA	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG, EA	REVISED -
	PLOT DATE = $DATE$	DATE - 5/18/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS (SHEET 5 OF 5)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	5328	DuPage	781	551
		CONTRACT NO. 60477		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		