1-21-11 LETTING ITEM 107

INDEX OF SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

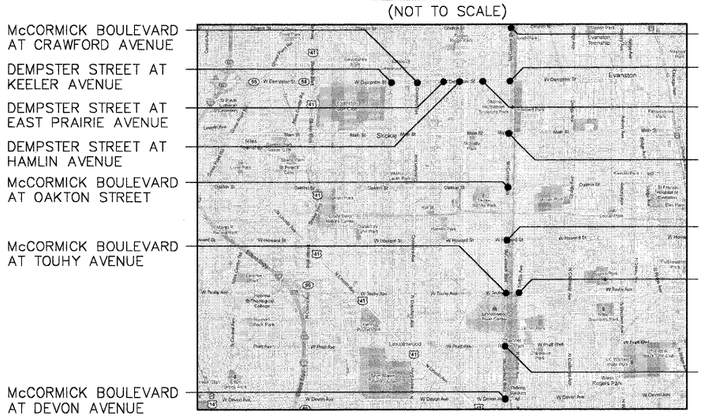
DISTRICT 1 FAU 2832 (McCORMICK ST.) &
HIGHWAY SAFETY IMPROVEMENT PROJECT FAP 378 (DEMPSTER ST.)

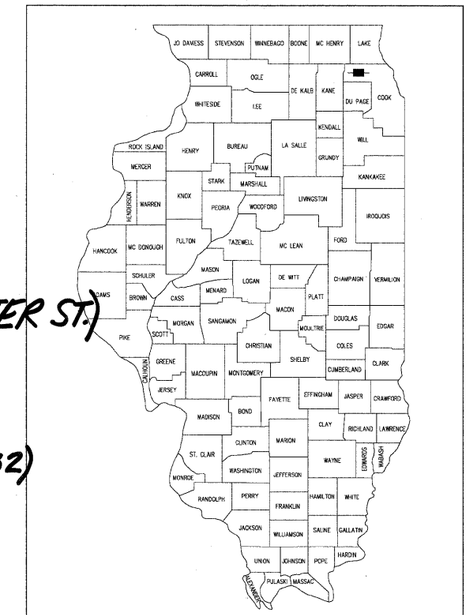
TRAFFIC SIGNAL MODERNIZATION ON VARIOUS INTERSECTIONS ON McCORMICK BOULEVARD, DEMPSTER STREET, AND TOUHY AVENUE

PROJECT: HSIP-0005(832)

VILLAGES OF SKOKIE, LINCOLNWOOD, AND CITY OF CHICAGO, ILLINOIS
COOK COUNTY
SECTION: 2010-006TS
JOB NO. D-91-451-10

LOCATION MAP
(NOT TO SCALE)





LOCATION OF SECTION INDICATED THUS: ■

KEVIN L. BELGRAVE
062-051750
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

EXPIRES: 11/30/2011

SIGNED: Kevin L. Belgrave
Kevin L. Belgrave
DATE: 10/29/2010

GHA GEWALT HAMILTON ASSOCIATES, INC.
850 Forest Edge Drive ▪ Vernon Hills, IL. 60061
Consulting Engineers & Surveyors
847-478-9700
FAX: 847-478-9701

CONTRACT NO: 60K24

CALL J.U.L.I.E. TOLL FREE 1-800-892-0123

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS

Call 48 hours before you dig
(Excluding Sat., Sun., & Holidays)
1-800-892-0123

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.

IDOT STANDARDS:

000001-06 STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001006 DECIMAL OF AN INCH OF A FOOT
701001-02 OFF-ROAD OPERATIONS 2L, 2W, >15' AWAY
701006-03 OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701501-04 URBAN LANE CLOSURE 2L, 2W UNDIVIDED
701606-07 URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-07 URBAN LANE CLOSURE MULTILANE INTERSECTION
701901-01 TRAFFIC CONTROL DEVICES
720001-01 SIGN PANEL MOUNTING DETAIL
720006-02 SIGN PANEL ERECTION DETAIL
780001-02 TYPICAL PAVEMENT MARKINGS
814001-02 HANDHOLE
857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
857006-01 SUPERVISED RAILROAD INTERCONNECT CIRCUIT
862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
877001-04 STEEL MAST ARM ASSEMBLY AND POLE, 16' THROUGH 55'
877011-04 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 16' THROUGH 55'
878001-03 CONCRETE FOUNDATION DETAILS
880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
886001-01 DETECTOR LOOP INSTALLATIONS

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 BELOW SCALES MAY BE USED.

TRAFFIC SIGNAL PLANS
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

INTERCONNECT PLANS
GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: Oct. 29 20 10
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 10 20 10
Scott E. Stitt P.E. /bc
acting ENGINEER OF DESIGN AND ENVIRONMENT

December 10 20 10
Christine M. Reed /bc
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Rev.

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TITLE SHEET
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -		
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.

*58 + 2 = 60

GHA #4085.867-872

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58 *	1
		CONTRACT #:	60K24	
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

URBAN

				FAU			FAP		
				90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 6.7% STATE 3.3% LINCOLNWOOD	90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 10% SKOKIE
	CODE NO.	ITEM	UNIT	TOTAL	0021	0021	0021	0021	0021	0021
	20200100	EARTH EXCAVATION	CU YD	48	18			10	20	
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	179	64			45	70	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	11,998	4,628	620	65	2,000	4,685	
	42400800	DETECTABLE WARNINGS	SQ FT	1,346	662	108	16	144	416	
	44000600	SIDEWALK REMOVAL	SQ FT	10,063	3,798	620	65	1,500	4,080	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6.00				2.00	4.00	
	67100100	MOBILIZATION	L SUM	1.00	0.30	0.05	0.05	0.20	0.40	
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1.00	0.30	0.05	0.05	0.20	0.40	
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1.00	0.30	0.05	0.05	0.20	0.40	
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.00	0.30	0.05	0.05	0.20	0.40	
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1.00	0.30	0.05	0.05	0.20	0.40	
**	72000100	SIGN PANEL - TYPE 1	SQ FT	80.00				36.00	44.00	
**	72000200	SIGN PANEL - TYPE 2	SQ FT	30.00					30.00	
**	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,097				462	635	
**	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	5,401	4,332	672	145	252		
**	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	647	273	72		127	175	
**	78300100	PAVEMENT MARKING REMOVAL	SQ FT	102				102		
**	78300400	THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	5,036	3,110	502	75	659	690	
	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	522				91	113	318
	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	170				48	122	
	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	149			10	96	43	
	81000900	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL	FOOT	82					82	
	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	75				25	50	
	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	3,417				1,652	1,646	119
	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	961				329	632	
	81400100	HANDHOLE	EACH	18				6	12	
	81400200	HEAVY-DUTY HANDHOLE	EACH	8				4	4	
	81400300	DOUBLE HANDHOLE	EACH	6				2	4	
	81702415	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6	FOOT	2,186				396	545	1,245
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	881			10	216	317	338
	82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	12				4	4	4
	83007300	LIGHT POLE, ALUMINUM, 35 FT. M.H., 8 FT. MAST ARM	EACH	4						4
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	22						22
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	11	6	1	1	1	2	
	85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	4				1	3	
	86400100	TRANSCEIVER - FIBER OPTIC	EACH	4				1	3	
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	8,294	3,151	664		1,577	2,902	
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6,223	1,160	478		1,429	3,156	
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5,046	396			1,398	3,252	
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,695				1,330	1,365	
	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,737				1,945	2,792	

* 100% OF THE COST SHALL BE PAID BY THE VILLAGE OF SKOKIE 0021

** SPECIALTY ITEM

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = JIM MITCHELL	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0837'	CHECKED - JRD	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	2
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

URBAN

	CODE NO.	ITEM	UNIT	TOTAL	FAU 90% FEDERAL 10% STATE 0021	FAU 90% FEDERAL 5% STATE 5% SKOKIE 0021	FAU 90% FEDERAL 6.7% STATE 3.3% LINCOLNWOOD 0021	FAP 90% FEDERAL 10% STATE 0021	FAP 90% FEDERAL 5% STATE 5% SKOKIE 0021	FAP 90% FEDERAL 10% SKOKIE 0021
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	920	249	186		267	218	
	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	8			2		6	
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	22	10	3	1	4	4	
	87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2					2	
	87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	2				2		
	87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	6				2	4	
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	68			4	16	48	
	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	12				4	8	
	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	88				44	44	
	87900200	DRILL EXISTING HANDHOLE	EACH	3			1			2
	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	45	14	4	3	12	12	
	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	12			4		8	
	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	32	12	3	1	8	8	
	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	47	26	4	1	8	8	
	88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8					8	
	88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6	6					
	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3	2	1				
	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	56	16	2	2	8	28	
	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	25	16	3		4	2	
	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	92	40	8	4	20	20	
	88500100	INDUCTIVE LOOP DETECTOR	EACH	31				8	23	
	88600100	DETECTOR LOOP, TYPE I	FOOT	1,836				704	1,132	
*	88700200	LIGHT DETECTOR	EACH	12	4	2		2	4	
*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	6	2	1		1	2	
	88800100	PEDESTRIAN PUSH-BUTTON	EACH	106	48	8	2	16	32	
	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3				1	2	
*	89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1					1	
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	15,052	881	413		11,416	487	1,855
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	14	6	1	1	2	4	
	89502380	REMOVE EXISTING HANDHOLE	EACH	30				12	16	2
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	27				9	18	
	Z0033090	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	6,696				6,696		
	X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	7	2	1		2	2	
	X8250090	COMBINATION POLE LIGHTING CONTROLLER	EACH	3				1	2	
	X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	14	6	1	1	2	4	
	X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	6,696				6,696		
	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	2,242	236	186		738	1,082	
*	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1,565	703	277		259	326	
	Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,305	725	130		190	260	
	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3				1	2	
~~* *~~	~~Z0076600~~	~~TRAINEES~~	~~HOUR~~							
	B1030000	CLEANING EXISTING CONDUIT	FOOT	5,038				5,038		

* 100% OF THE COST SHALL BE PAID BY THE VILLAGE OF SKOKIE 0021

* * SPECIALTY ITEM

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = JIM MITCHELL	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0837'	CHECKED - JRD	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	2A
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

				FAU							FAP								
			90% FEDERAL 10% STATE	90% FEDERAL 6.7% STATE 3.3% LINCOLNWOOD	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 10% STATE	90% FEDERAL 10% SKOKIE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 10% SKOKIE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 10% SKOKIE	90% FEDERAL 10% STATE
			McCORMICK BOULEVARD AT DEVON AVENUE	McCORMICK BOULEVARD AT PRATT AVENUE	McCORMICK BOULEVARD AT TOUHY AVENUE	McCORMICK BOULEVARD AT HOWARD STREET	McCORMICK BOULEVARD AT OAKTON STREET	McCORMICK BOULEVARD AT MAIN STREET	McCORMICK BOULEVARD AT DEMPSTER STREET	McCORMICK BOULEVARD AT CHURCH STREET	TOUHY AVENUE AT KEDZIE AVENUE	DEMPSTER STREET AT KEELER AVENUE	DEMPSTER STREET AT CRAWFORD AVENUE	DEMPSTER STREET AT CRAWFORD AVENUE	DEMPSTER STREET AT HAMLIN AVENUE	DEMPSTER STREET AT EAST PRAIRIE AVENUE	DEMPSTER STREET AT EAST PRAIRIE AVENUE	DEMPSTER STREET AT ST. LOUIS AVENUE/ LINCOLNWOOD DRIVE	DEMPSTER STREET AT ST. LOUIS AVENUE/ LINCOLNWOOD DRIVE	INTERCONNECT - DEMPSTER STREET FROM KEELER AVENUE TO McCORMICK BOULEVARD
			TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	STREET LIGHTING	TRAFFIC SIGNALS	TRAFFIC SIGNALS	STREET LIGHTING	TRAFFIC SIGNALS	STREET LIGHTING	INTERCONNECT
CODE NO.	ITEM	UNIT	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
20200100	EARTH EXCAVATION	CU YD			2	5			5	6		5	10		4	6		5		
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD			4	20			20	20		22	45		15	18		15		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	728	65	600	850	720	620	965	765	365	1,100	1,635		875	1,340		1,370		
42400800	DETECTABLE WARNINGS	SQ FT	104	16	104	108	112	108	122	112	48	108	96		104	100		104		
44000600	SIDEWALK REMOVAL	SQ FT	728	65	380	650	720	620	755	565	365	900	1,135		760	1,145		1,275		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO											2.00			2.00		2.00		
67100100	MOBILIZATION	L SUM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15		0.05	0.15		0.15		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15		0.05	0.15		0.15		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15		0.05	0.15		0.15		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15		0.05	0.15		0.15		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15		0.05	0.15		0.15		
** 72000100	SIGN PANEL - TYPE 1	SQ FT											36.00			27.50		16.50		
** 72000200	SIGN PANEL - TYPE 2	SQ FT																30.00		
** 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT									204		258		300	335				
** 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	618	145	720	678	864	672	744	708			252							
** 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT			147		52	72	74				127		66	109				
** 78300100	PAVEMENT MARKING REMOVAL	SQ FT									102									
** 78300400	THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	375	75	665	336	634	502	638	462			659		286	402				
81000500	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT											91			55	151	58	167	
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT											48			75		47		
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT		10									96					43		
81000900	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL	FOOT														82				
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT											25			25		25		
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT											1,652			781	89	865	30	
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT											329			347		285		
81400100	HANDHOLE	EACH											6			6		6		
81400200	HEAVY-DUTY HAND HOLE	EACH											4			2		2		
81400300	DOUBLE HANDHOLE	EACH											2			2		2		
81702415	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6	FOOT											396			285	635	260	610	
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT		10									216			193	176	124	162	
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH											4			2	2	2	2	
83007300	LIGHT POLE, ALUMINUM, 35 FT. M.H., 8 FT. MAST ARM	EACH															2		2	
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT															11		11	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	1	1	1	1	1	1	1	1			1					
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH										1	1			1		1		
86400100	TRANSCEIVER - FIBER OPTIC	EACH										1	1			1		1		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT			650	429	711	664	718	643	479	252	1,098		473	1,171		1,006		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT				776		478		384			1,429		509	1,419		1,228		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT								396			1,398			1,742		1,510		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT											1,330			742		623		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT											1,945			1,649		1,143		

* 100% OF THE COST SHALL BE PAID BY THE VILLAGE OF SKOKIE 0021
** SPECIALTY ITEM

GHA #4085.867-872

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -			VARIES	2010-006TS	COOK	58	3
	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -					CONTRACT #: 60K24		
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

				FAU								FAP									
				90% FEDERAL 10% STATE	90% FEDERAL 6.7% STATE 3.3% LINCOLNWOOD	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 10% STATE	90% FEDERAL 10% SKOKIE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 10% SKOKIE	90% FEDERAL 5% STATE 5% SKOKIE	90% FEDERAL 10% SKOKIE	90% FEDERAL 10% STATE
				McCORMICK BOULEVARD AT DEVON AVENUE	McCORMICK BOULEVARD AT PRATT AVENUE	McCORMICK BOULEVARD AT TOUHY AVENUE	McCORMICK BOULEVARD AT HOWARD STREET	McCORMICK BOULEVARD AT OAKTON STREET	McCORMICK BOULEVARD AT MAIN STREET	McCORMICK BOULEVARD AT DEMPSTER STREET	McCORMICK BOULEVARD AT CHURCH STREET	TOUHY AVENUE AT KEDZIE AVENUE	DEMPSTER STREET AT KEELER AVENUE	DEMPSTER STREET AT CRAWFORD AVENUE	DEMPSTER STREET AT CRAWFORD AVENUE	DEMPSTER STREET AT HAMLIN AVENUE	DEMPSTER STREET AT EAST PRAIRIE AVENUE	DEMPSTER STREET AT EAST PRAIRIE AVENUE	DEMPSTER STREET AT ST. LOUIS AVENUE/ LINCOLNWOOD DRIVE	DEMPSTER STREET AT ST. LOUIS AVENUE/ LINCOLNWOOD DRIVE	INTERCONNECT - DEMPSTER STREET FROM KEELER AVENUE TO McCORMICK BOULEVARD
				TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	STREET LIGHTING	TRAFFIC SIGNALS	TRAFFIC SIGNALS	STREET LIGHTING	TRAFFIC SIGNALS	STREET LIGHTING	INTERCONNECT
CODE NO.	ITEM	UNIT	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT				47		186		202	89		178			77		141			
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH		2												3		3			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH		1	4	3		3		3			4			2		2			
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH														1		1			
87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH											2								
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH											2			2		2			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT		4									16			24		24			
87800150	CONCRETE FOUNDATION, TYPE C	FOOT											4			4		4			
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT											44			22		22			
87900290	DRILL EXISTING HANDHOLE	EACH		1													1		1		
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH		3	2	4		4	4	4	4	2	8		2	4		4			
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH		4								2			2	2		2			
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH		1	2	4		3	4	2	4	2	4		2	2		2			
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH		1	6	4	8	4	4	4	4	2	4		2	2		2			
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH										2			2	2		2			
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH			2		4														
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH						1		2											
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	2		6		2		2		4	8		8	8		8			
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH			4	1	4	3	4	3	4	2									
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH		4	8	8	8	8	8	8	8	4	12		4	6		6			
88500100	INDUCTIVE LOOP DETECTOR	EACH										10	8			7		6			
88600100	DETECTOR LOOP, TYPE I	FOOT											704			582		550			
* 88700200	LIGHT DETECTOR	EACH				2		2		2			2			2		2			
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH				1		1		1			1			1		1			
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8	2	8	8	8	8	8	8	8	8	8		8	8		8			
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH											1			1		1			
* 89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH										1									
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT				503		413		378	152			960	487		395		500		11,264
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1	1	1	1	1	1	1	1	1	1		1	1		1			
89502380	REMOVE EXISTING HANDHOLE	EACH											12	2		8		8			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH											9			9		9			
X0325961	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT																			6,696
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH				1		1		1	1		1			1		1			
X8250090	COMBINATION POLE LIGHTING CONTROLLER	EACH											1			1		1			
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1	1	1	1	1	1	1	1	1	1	1		1	1		1			
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT																			6,696
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT				34		186		202	89		649			556		526			
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT				319		277		384			259			176		150			
20004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT			135	120	120	130	150	200	55		135		120	140					
20073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH											1			1		1			
* * 20076600	TRAINEES	HOUR																			
	CLEANING EXISTING CONDUIT	FOOT																			5,038

* 100% OF THE COST SHALL BE PAID BY THE VILLAGE OF SKOKIE 0021
* * SPECIALTY ITEM

GHA #4085.867-872

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SCHEDULE OF QUANTITIES**
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -		
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	3A
		CONTRACT #: 60K24		
		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.

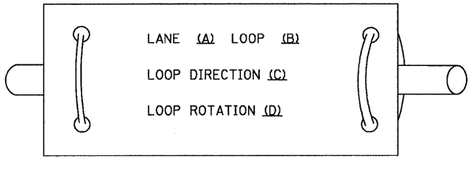
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

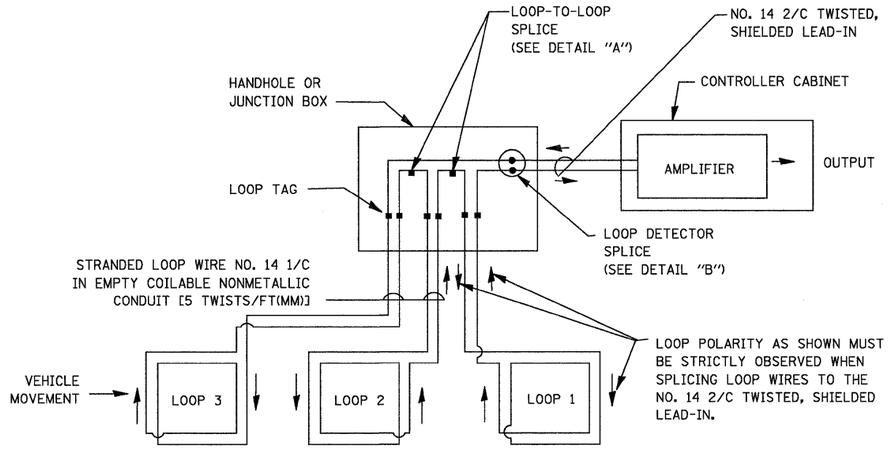


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

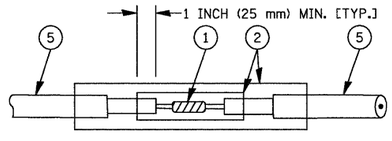
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

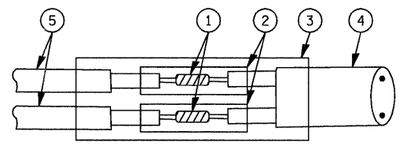


DETECTOR LOOP WIRING SCHEMATIC

- 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.

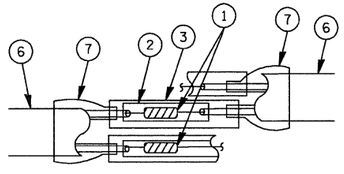


DETAIL "A"
LOOP-TO-LOOP SPLICE

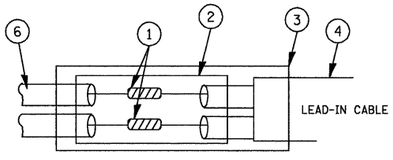


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

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

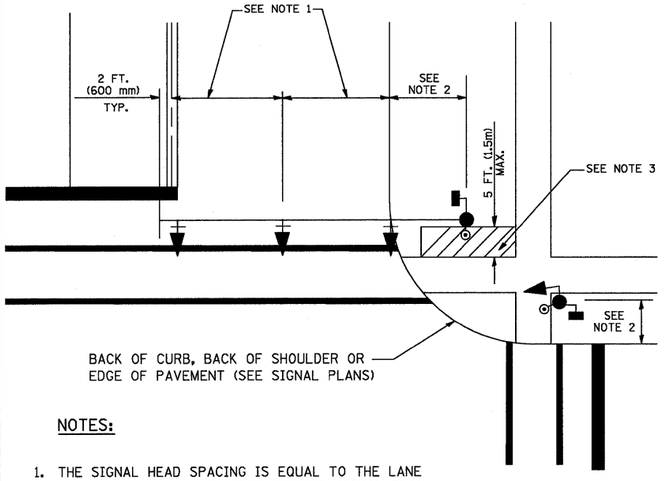
LATEST REVISION DATE: 10-28-09

GHA #4085.867-872

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -			VARIES	2010-006TS	COOK	58	4
	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -					CONTRACT #: 60K24		
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		SCALE: N.A. SHEET NO. 1 OF 6 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

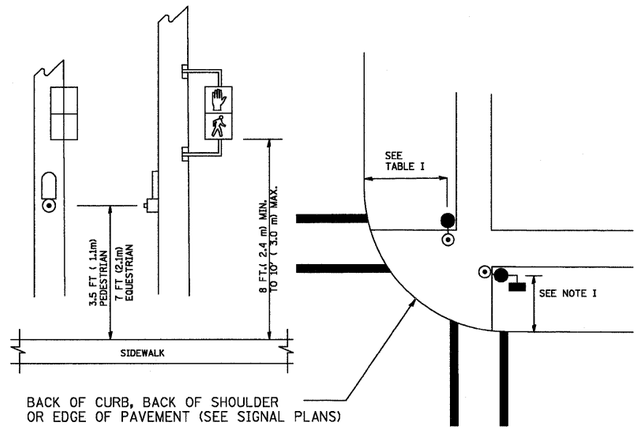
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

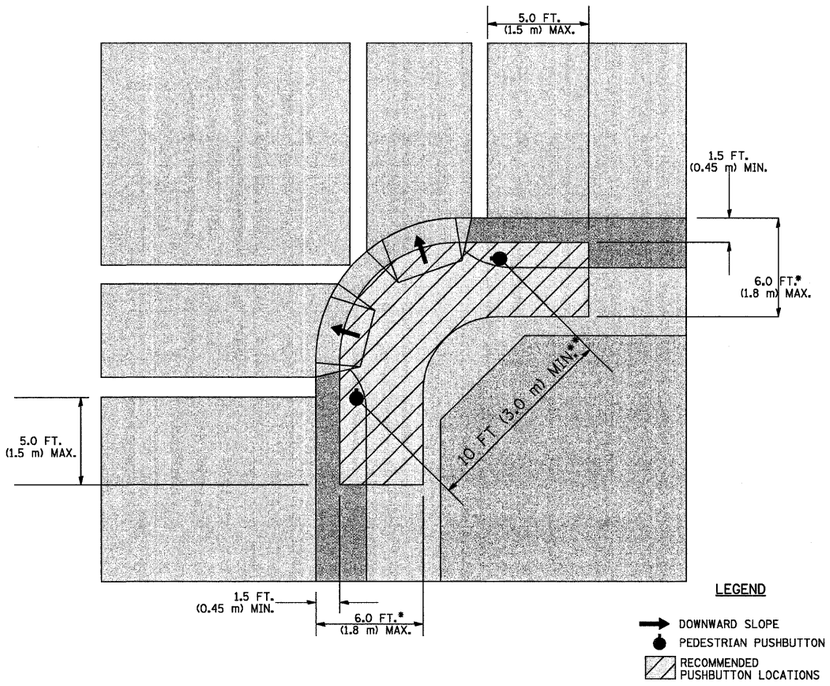
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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:

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.

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.

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.

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.

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.

LATEST REVISION DATE: 10-28-09

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.

GHA #4085.867-872

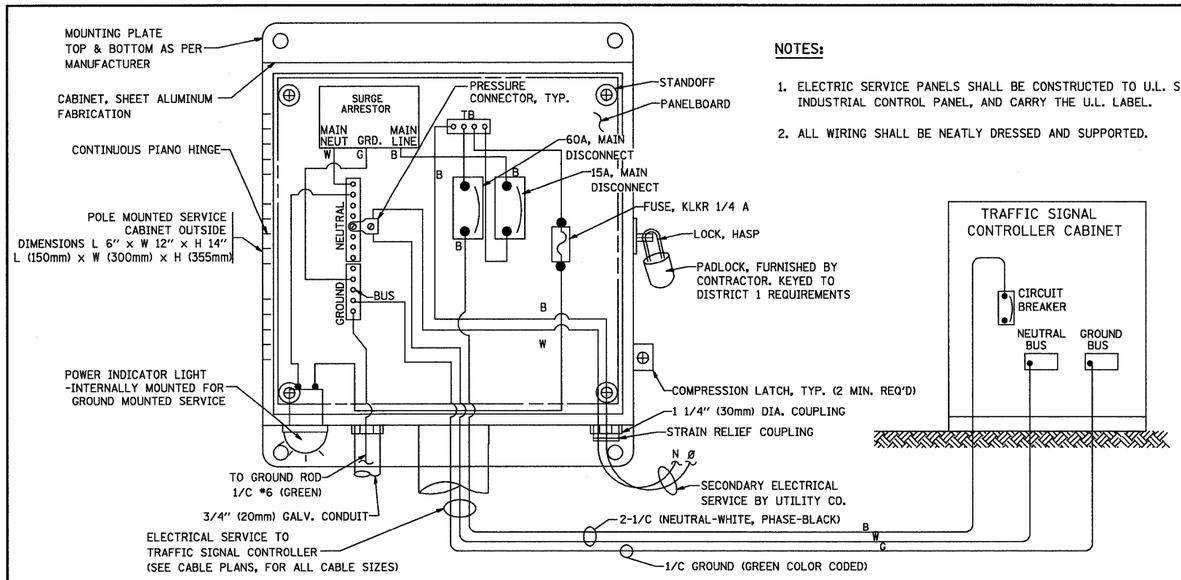
FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	5
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		



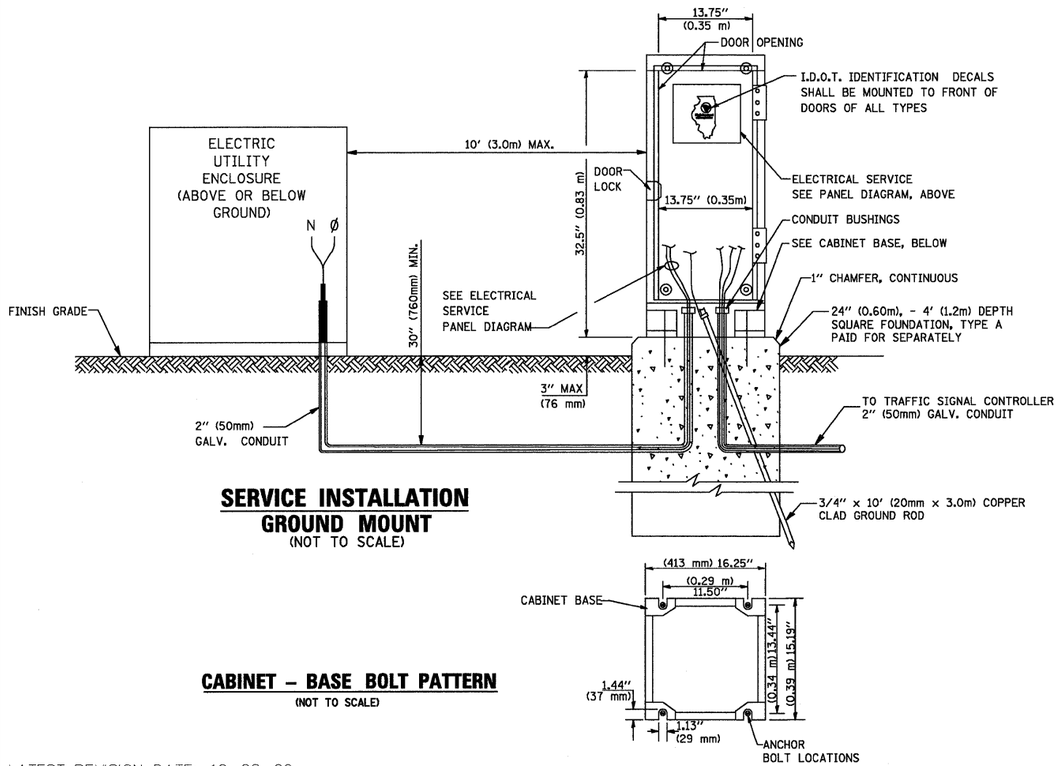
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

NOTES:

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

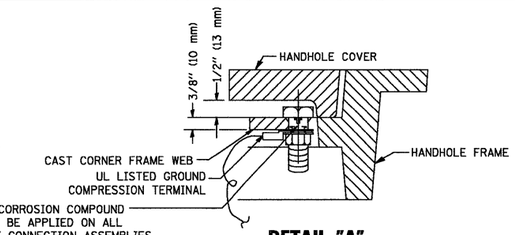


SERVICE INSTALLATION GROUND MOUNT

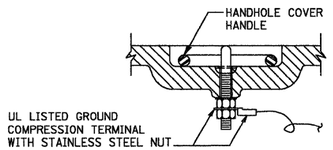
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

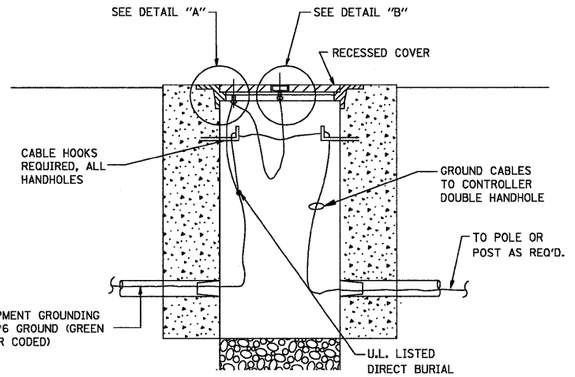
(NOT TO SCALE)



DETAIL "A"

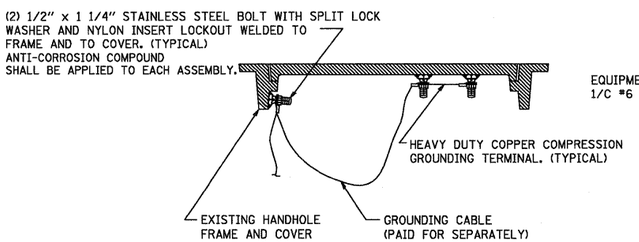


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



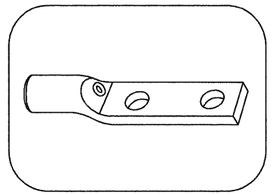
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

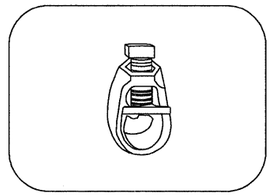
NOTES:

GROUNDING SYSTEM

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



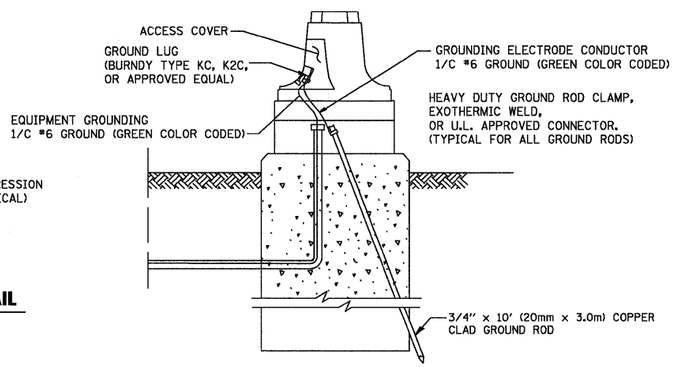
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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



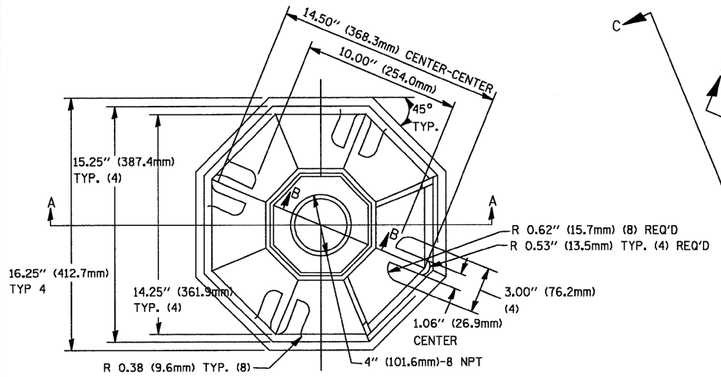
MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

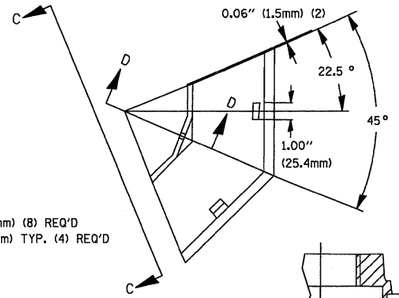
LATEST REVISION DATE: 10-28-09

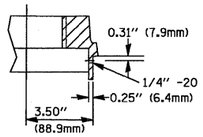
GHA #4085.867-872

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -			VARIES	2010-006TS	COOK	58	6
	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -		SCALE: N.A. SHEET NO. 3 OF 6 SHEETS STA. TO STA.			CONTRACT #: 60K24		
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -					ILLINOIS FED. AID PROJECT		

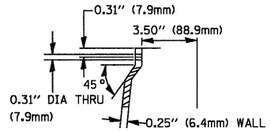


TOP VIEW

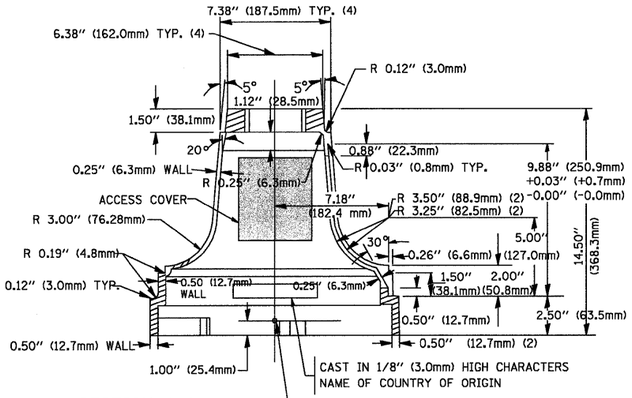




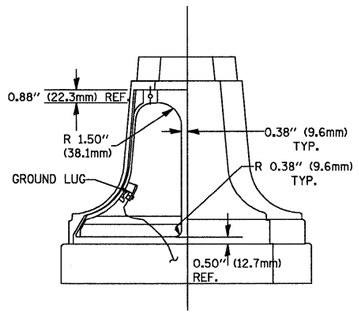
SECTION B-B



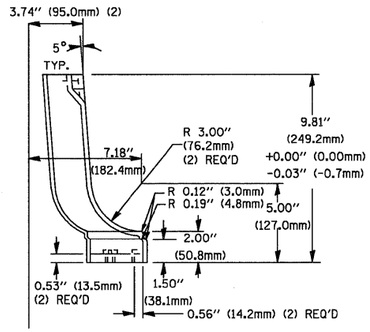
SECTION D-D



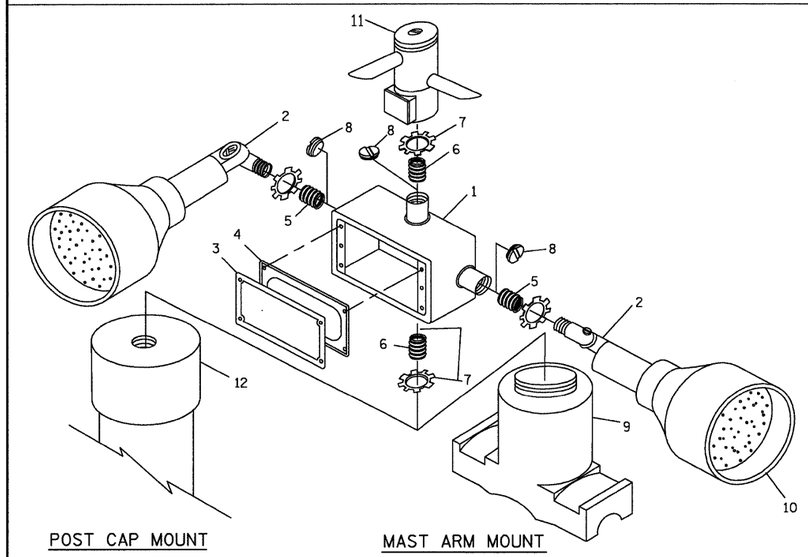
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



POST CAP MOUNT

MAST ARM MOUNT

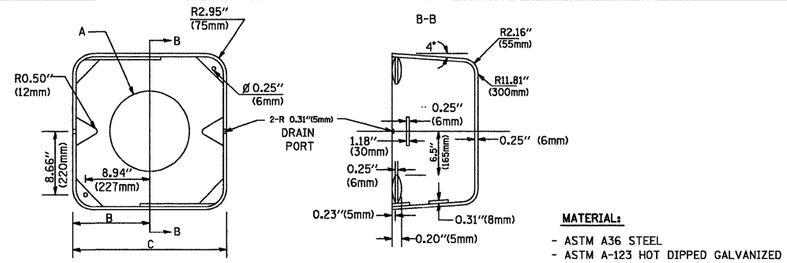
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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.

LATEST REVISION DATE: 10-28-09



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

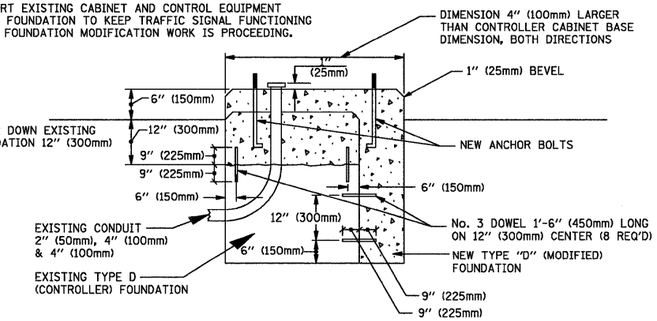
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

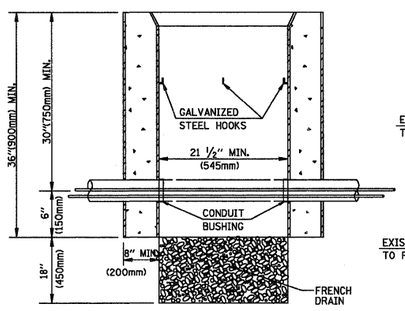
NOTES:

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.

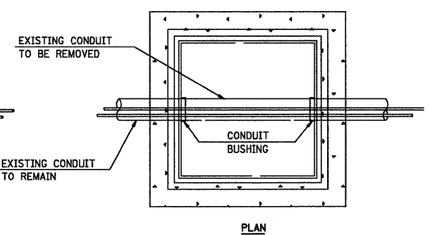
NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



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

GHA #4085.867-872

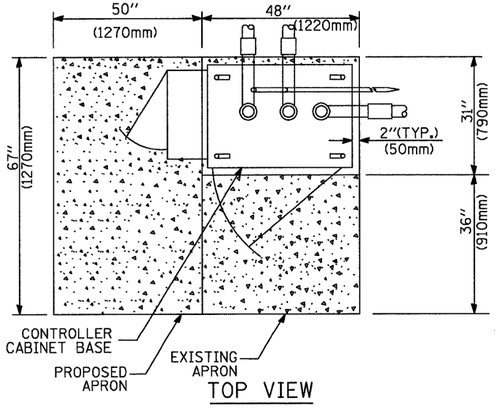
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
4085.867-872-DT1.dwg		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

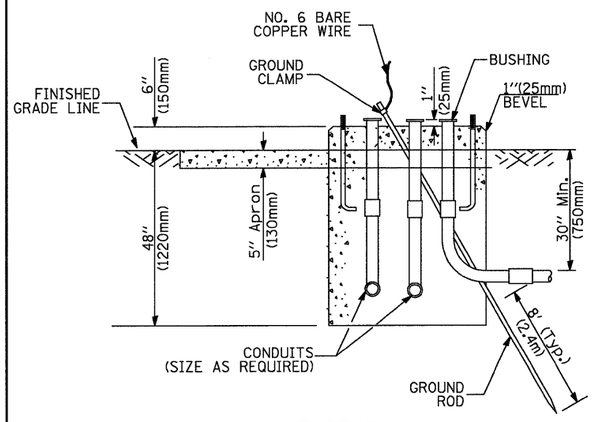
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

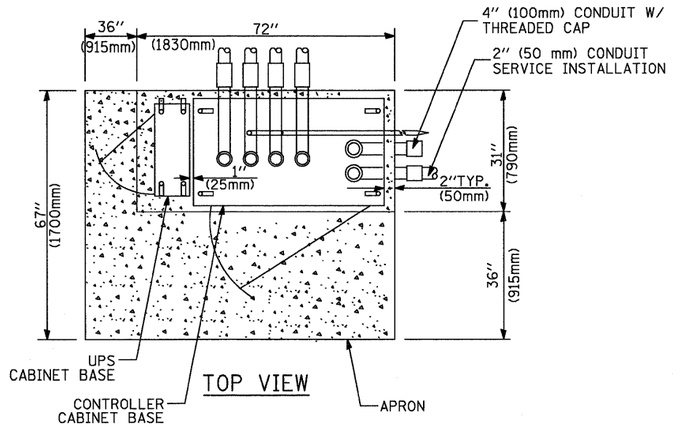
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	7
		CONTRACT #:	60K24	
		ILLINOIS FED. AID PROJECT		



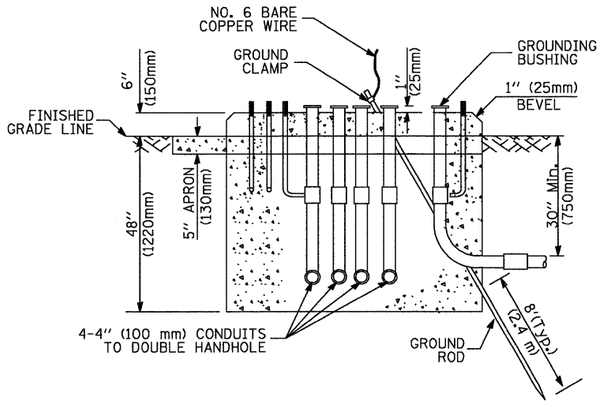
TOP VIEW



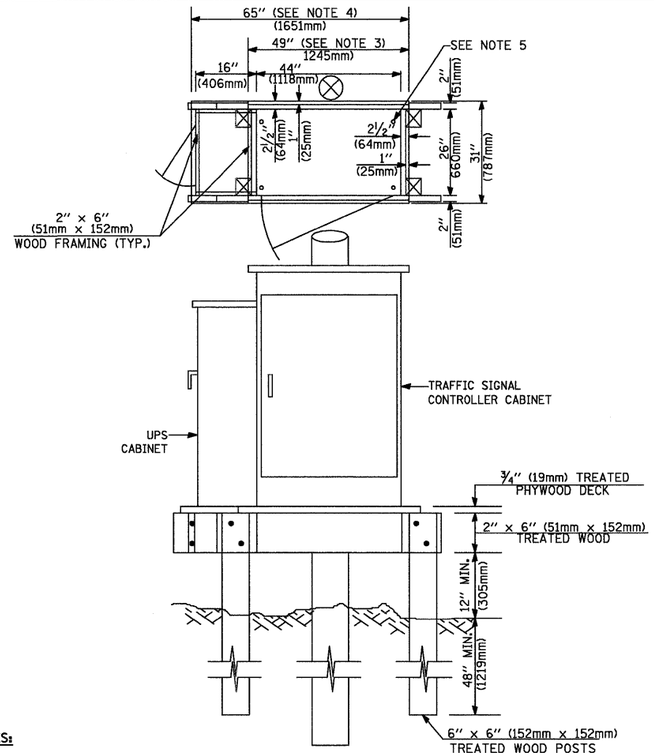
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



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

LATEST REVISION DATE: 06-30-10

GHA #4085.867-872

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
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	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
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SCALE: N.A. | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	8
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

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

LATEST REVISION DATE: 10-28-09

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G Y G	R Y G Y G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G Y G "P"	R Y G Y G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC 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 REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

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

GHA #4085.867-872

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	
		DRAWN - ZCW	REVISED -	
	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -	
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.A. | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	9
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT.
2. ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFFITED WITH LED INDICATIONS. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF THE LED SIGNAL AND LED CONFIRMATION BEACON INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY

MATCH LINE (SEE LOWER LEFT)

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

TRAFFIC SIGNAL LEGEND

PROPOSED

PORTLAND CEMENT CONCRETE SIDEWALK, 5"

DETECTABLE WARNING

AVENUE
EXIST. R.O.W.
50' 50'
11' 11' 11' 11' 12' 12'
EXIST. SIDEWALK
EXIST. SIDEWALK

THERMOPLASTIC PAVEMENT MARKING REMOVAL =90 SQ FT.
THERMOPLASTIC PAVEMENT MARKING – LINE 12" =180 FT.
(82'-E-2")
BANK
EXIST. 16' POST
SIDEWALK REMOVAL =250 SQ FT.
P.C.C. SIDEWALK, 5" =250 SQ FT.
(301'-E-2")
EXIST. R.O.W.
McCORMICK
(31'-E-2½")
DETECTABLE WARNINGS
=32 SQ FT.
(6'-E-2½")
EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS
EXISTING 32' MAST ARM
(42'-E-4")
THERMOPLASTIC PAVEMENT MARKING REMOVAL =100 SQ FT.
THERMOPLASTIC PAVEMENT MARKING – LINE 12" =192 FT.
50' 12' 12' 12' 12' 63'
(66'-E-4")
(9'-E-2½")
EXIST. SIDEWALK
EXIST. R.O.W.
(248'-E-2")
(29'-E-2½")
SIDEWALK REMOVAL =120 SQ FT.
P.C.C. SIDEWALK, 5" =120 SQ FT.
(148'-E-4")
EXISTING 30' MAST ARM
PARK
SIDEWALK REMOVAL =120 SQ FT.
P.C.C. SIDEWALK, 5" =120 SQ FT.
THERMOPLASTIC PAVEMENT MARKING REMOVAL =60 SQ FT.
THERMOPLASTIC PAVEMENT MARKING– LINE 12" =120 FT.

RENTAL
EXIST. R.O.W.
SIDEWALK REMOVAL =140 SQ FT.
P.C.C. SIDEWALK, 5" =140 SQ FT.
DETECTABLE WARNINGS
=12 SQ FT.
(60'-E-2½")
SIDEWALK REMOVAL =120 SQ FT.
P.C.C. SIDEWALK, 5" =120 SQ FT.
EXIST. 16' POST
DETECTABLE WARNINGS
=12 SQ FT.
(411'-E-2")
EXISTING 26' MAST ARM
SPAULDING AVENUE
33'
(12'-E-2½")
THERMOPLASTIC PAVEMENT MARKING REMOVAL =65 SQ FT.
THERMOPLASTIC PAVEMENT MARKING – LINE 12" =126 FT.
EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS
40'
(45'-E-4")
12' 12' 12' 12'
(49'-E-4")
DETECTABLE WARNINGS
=12 SQ FT.
SIDEWALK REMOVAL =120 SQ FT.
P.C.C. SIDEWALK, 5" =120 SQ FT.
EXISTING 26' MAST ARM
BOULEVARD
66'
EXIST. SIDEWALK
(23'-E-2½")
(37'-E-2½")
(83'-E-2")
(5'-E(2)-4")
EXIST. INTERCONNECT TO PRATT AVENUE
EXIST. R.O.W.
NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-2100 IN A TYPE IV CABINET.
VACANT
EXIST. 16' POST
SIDEWALK REMOVAL =108 SQ FT.
P.C.C. SIDEWALK, 5" =108 SQ FT.
DETECTABLE WARNING
=12 SQ FT.
(86'-E-2")
(148'-E-2")
11' 11' 18' 11' 11'
33' 33'
EXIST. R.O.W.
DEVON
ONLY

AVENUE
EXIST. R.O.W.
50' 50'
11' 11' 11' 12' 12'
ONLY
DEVON
ONLY

MATCH LINE (SEE UPPER RIGHT)

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

8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	PEDESTRIAN PUSH-BUTTON
2	EACH	INCANDESCENT CONFIRMATION BEACON

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

GHA #4085.867

FILE NAME = McCORMICK@DEVON.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	
		DRAWN - ZCW	REVISED -	
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -	
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
McCORMICK BOULEVARD AT DEVON AVENUE

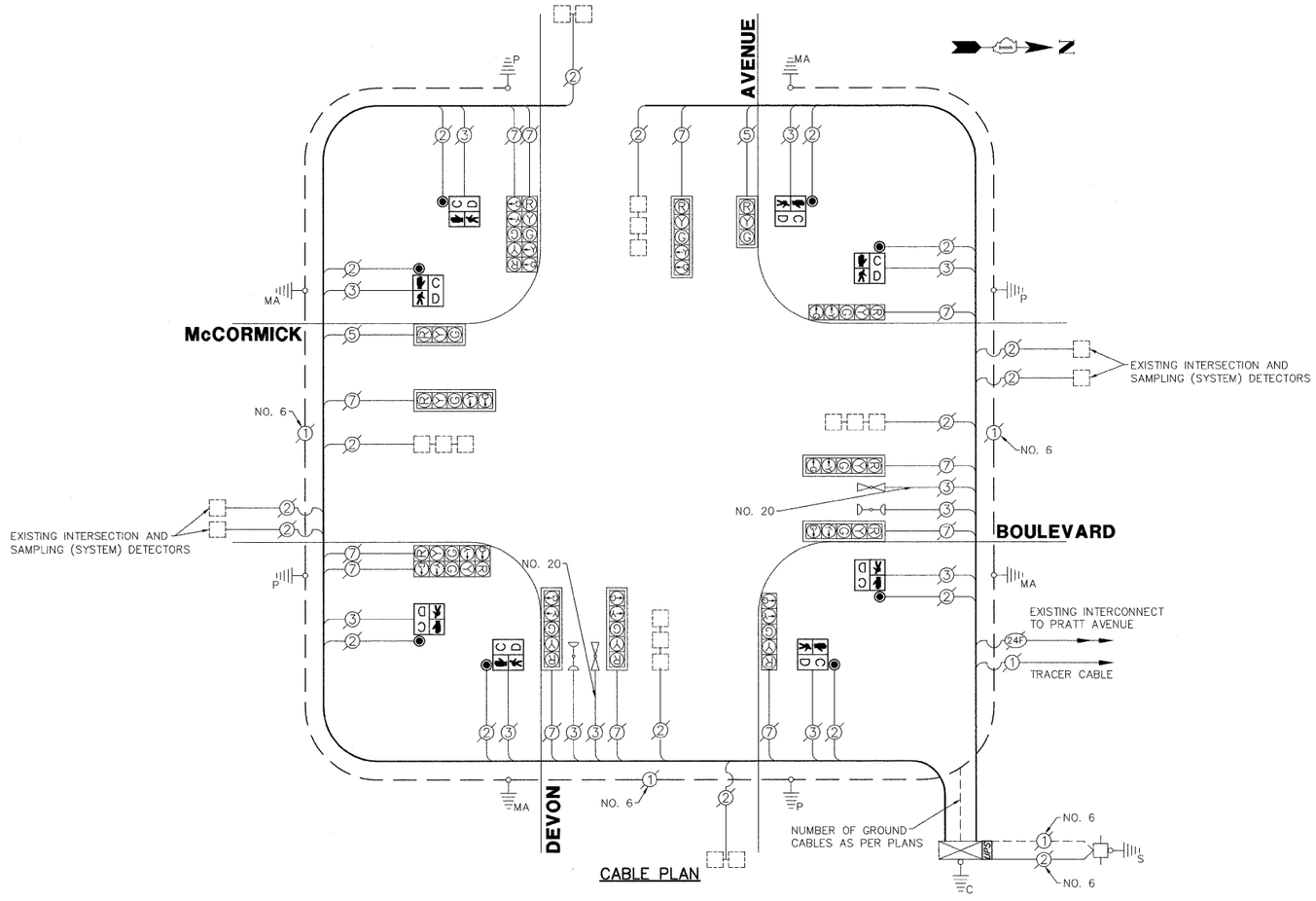
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	10
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

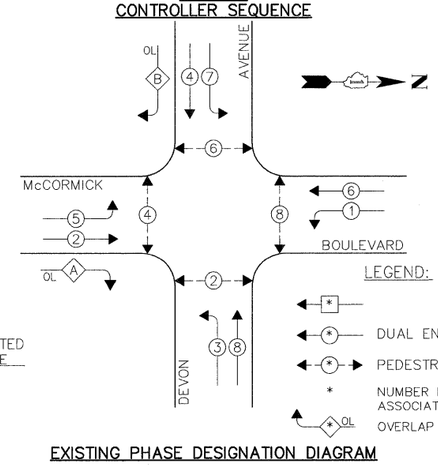
McCORMICK BOULEVARD AT DEVON AVENUE

NO.	QUANT.	UNIT	
1.	728	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
2.	104	SQ FT	DETECTABLE WARNINGS
3.	728	SQ FT	SIDEWALK REMOVAL
4.	0.05	L SUM	MOBILIZATION
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
7.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
9.	618	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
10.	375	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
11.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
12.	8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
13.	8	EACH	PEDESTRIAN PUSH-BUTTON
14.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
15.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY



CABLE PLAN

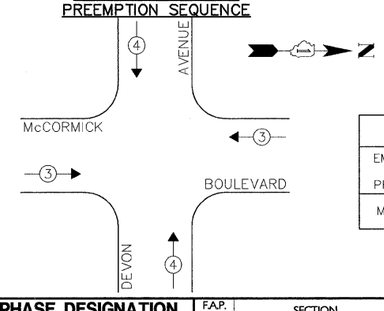
EXISTING CONTROLLER SEQUENCE



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

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	35.0
SIGNAL (GREEN)	14	135	15	0.25	84.0
ARROW	24	135	12	0.10	28.0
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	591.0

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816–5465
COMPANY: COM–ED

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

GHA #4085.867

FILE NAME = 4085.867–872–CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
McCORMICK BOULEVARD AT DEVON AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	11
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT ON A SEPARATE TYPE A FOUNDATION CONNECTED TO THE CONTROLLER CABINET THROUGH THE DOUBLE HANDHOLE WITH A 3" GALVANIZED STEEL CONDUIT.
2. ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH LED INDICATORS. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. ALL CABINET MODIFICATION AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF THE LED SIGNAL AND LED CONFIRMATION BEACON INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.

TRAFFIC SIGNAL LEGEND

	PROPOSED
PORTLAND CEMENT CONCRETE SIDEWALK, 5"	
DETECTABLE WARNING	

GRAPHIC SCALE

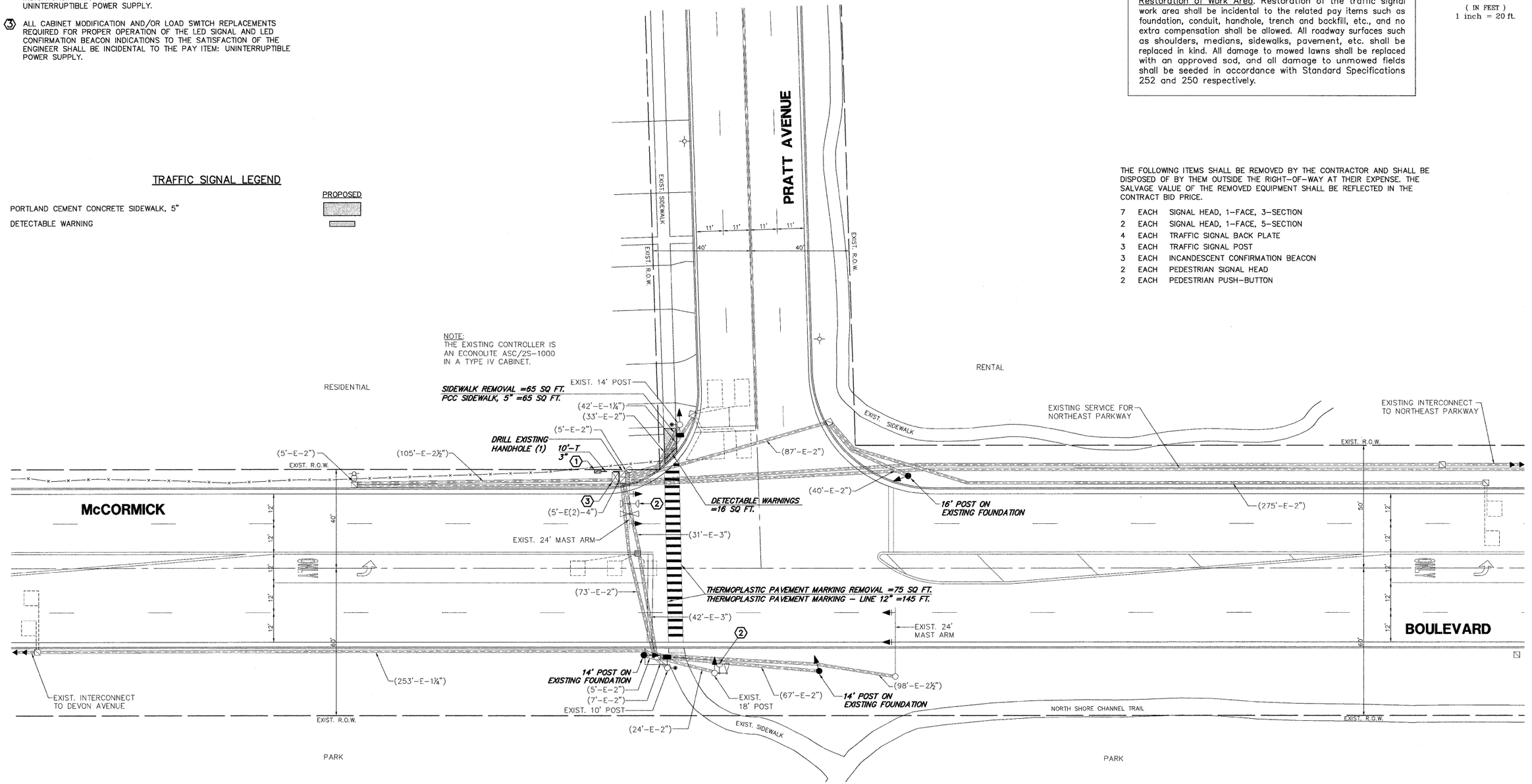
20 0 10 20

(IN FEET)
1 inch = 20 ft.

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

7	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	TRAFFIC SIGNAL BACK PLATE
3	EACH	TRAFFIC SIGNAL POST
3	EACH	INCANDESCENT CONFIRMATION BEACON
2	EACH	PEDESTRIAN SIGNAL HEAD
2	EACH	PEDESTRIAN PUSH-BUTTON



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

GHA #4085.867

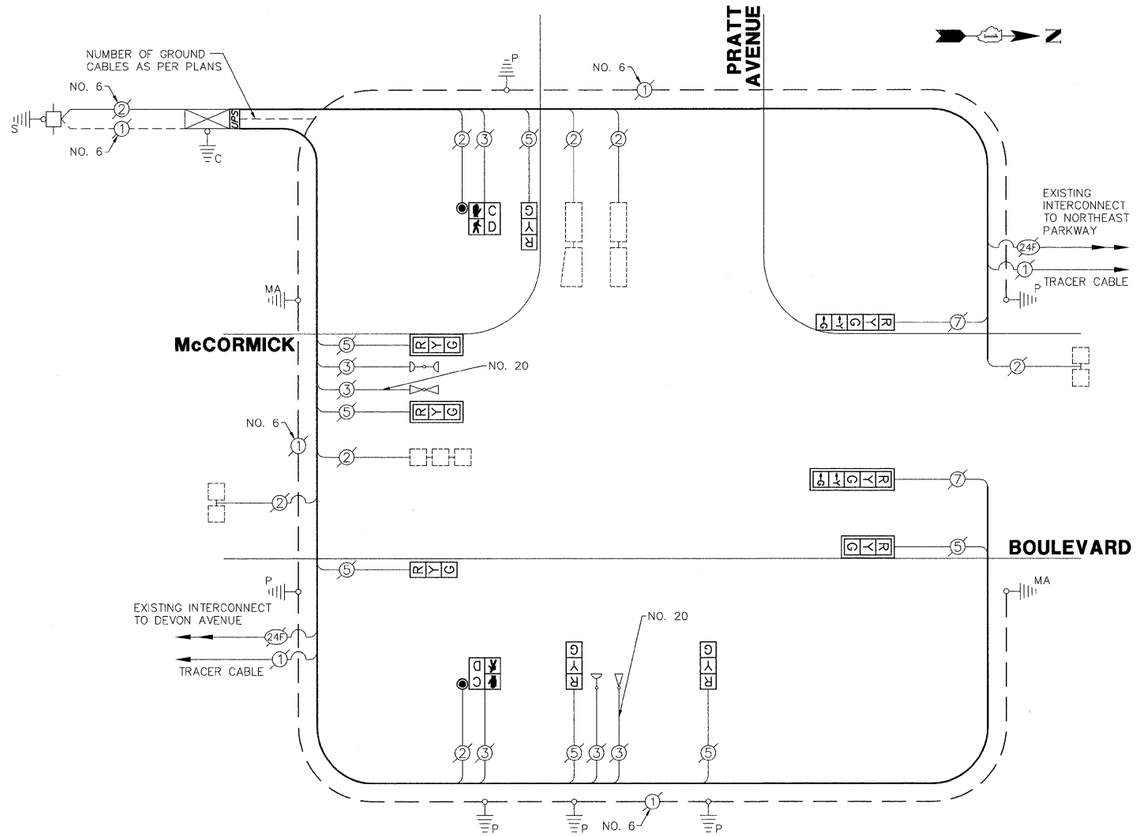
FILE NAME = McCORMICK@PRATT.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN McCORMICK BOULEVARD AT PRATT AVENUE
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20' SHEET NO. OF 54SHEETS STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	12
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

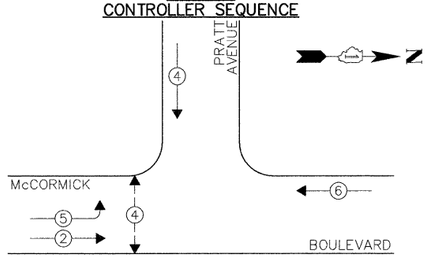
McCORMICK BOULEVARD AT PRATT AVENUE

NO.	QUANT.	UNIT	
1.	65	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
2.	16	SQ FT	DETECTABLE WARNINGS
3.	65	SQ FT	SIDEWALK REMOVAL
4.	0.05	L SUM	MOBILIZATION
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
7.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
9.	145	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
10.	75	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
11.	10	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
12.	10	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
13.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
14.	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
15.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
16.	4	FOOT	CONCRETE FOUNDATION, TYPE A
17.	1	EACH	DRILL EXISTING HANDHOLE
18.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
19.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
20.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
21.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
22.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
23.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
24.	2	EACH	PEDESTRIAN PUSH-BUTTON
25.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
26.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY

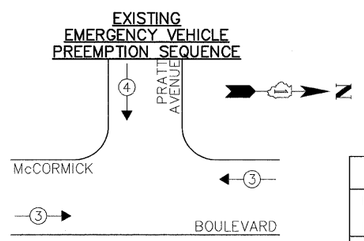


CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

EXISTING PHASE DESIGNATION DIAGRAM

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	9	135	17	0.50	76.5
SIGNAL (YELLOW)	9	135	25	0.25	22.5
SIGNAL (GREEN)	9	135	15	0.25	54.0
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	332.8

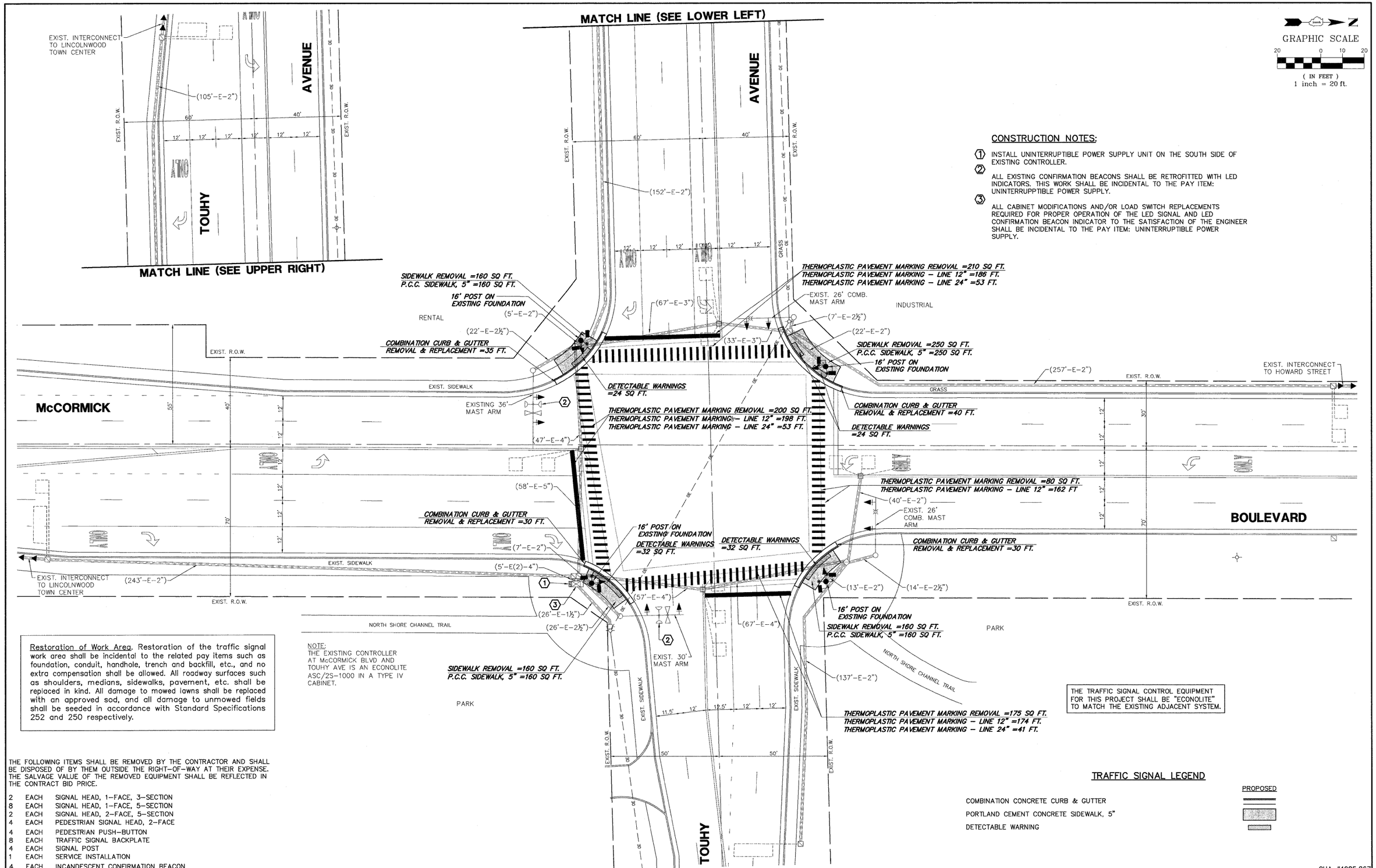
ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816–5465
COMPANY: COM–ED

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

GHA #4085.867

FILE NAME = 4085.867–872–CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE McCORMICK BOULEVARD AT PRATT AVENUE
		DRAWN - MEM	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	13
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		



GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT ON THE SOUTH SIDE OF EXISTING CONTROLLER.
2. ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH LED INDICATORS. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF THE LED SIGNAL AND LED CONFIRMATION BEACON INDICATOR TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

NOTE:
THE EXISTING CONTROLLER AT McCORMICK BLVD AND TOUHY AVE IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

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

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

2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
8	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSH-BUTTON
8	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	SIGNAL POST
1	EACH	SERVICE INSTALLATION
4	EACH	INCANDESCENT CONFIRMATION BEACON

TRAFFIC SIGNAL LEGEND

	PROPOSED
COMBINATION CONCRETE CURB & GUTTER	
PORTLAND CEMENT CONCRETE SIDEWALK, 5"	
DETECTABLE WARNING	

GHA #4085.867

FILE NAME = McCORMICK@TOUHY.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
McCORMICK BOULEVARD AT TOUHY AVENUE

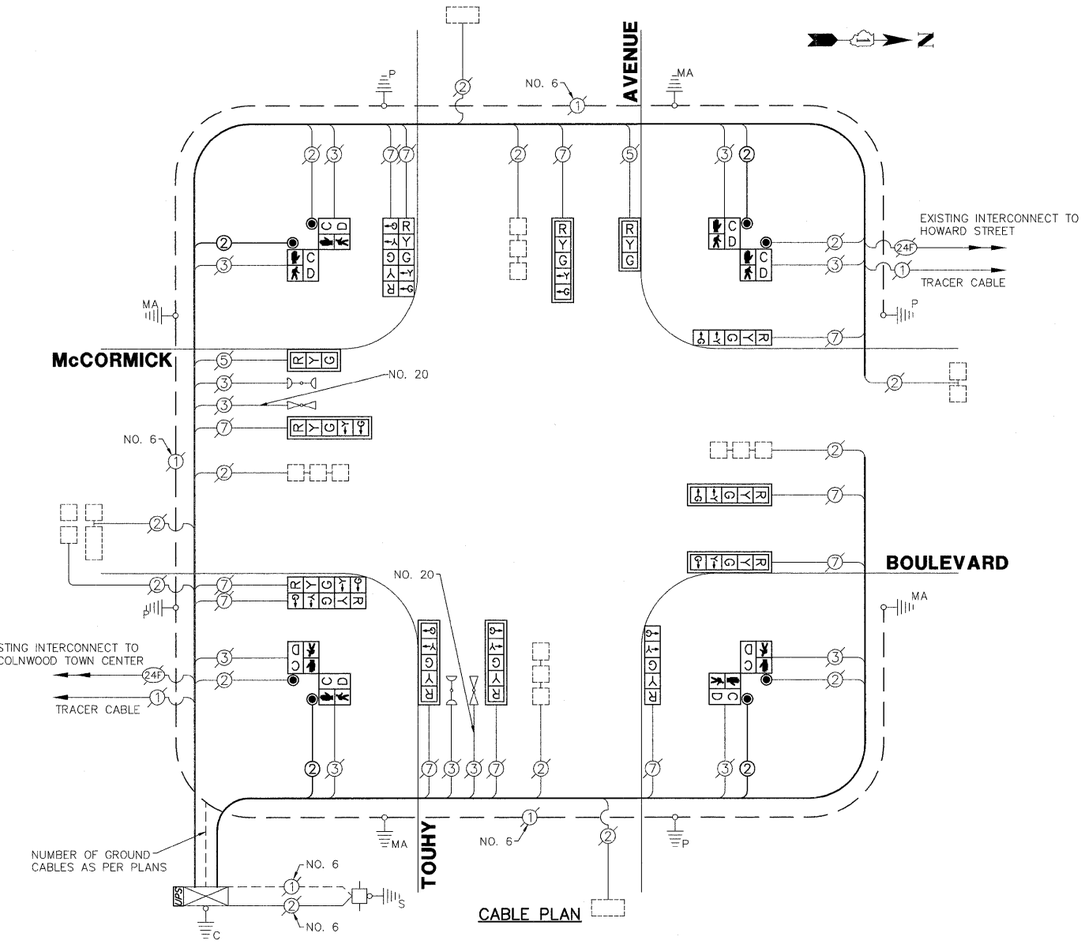
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	14
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			

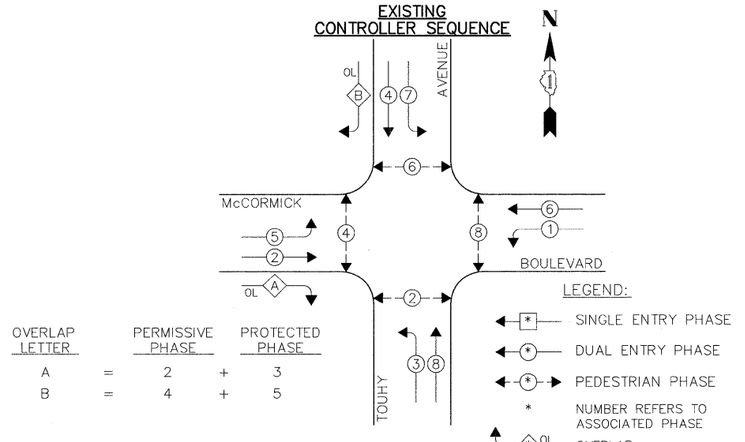
SCHEDULE OF QUANTITIES

McCORMICK BOULEVARD AT TOUHY AVENUE

NO.	QUANT.	UNIT	
1.	2	CU YD	EARTH EXCAVATION
2.	4	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
3.	600	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
4.	104	SQ FT	DETECTABLE WARNINGS
5.	380	SQ FT	SIDEWALK REMOVAL
6.	135	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
7.	0.05	L SUM	MOBILIZATION
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
9.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
10.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
11.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
12.	720	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
13.	147	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
14.	665	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
15.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
16.	650	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
17.	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
18.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
19.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
20.	6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
21.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
22.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
23.	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
24.	8	EACH	PEDESTRIAN PUSH-BUTTON
25.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
26.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY

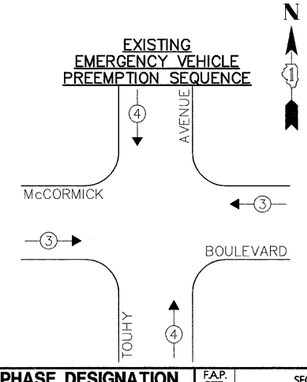


CABLE PLAN



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

EXISTING PHASE DESIGNATION DIAGRAM



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	35.0
SIGNAL (GREEN)	14	135	15	0.25	84.0
ARROW	24	135	12	0.10	28.8
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	591.8

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816–5465
COMPANY: COM–ED

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

GHA #4085.867

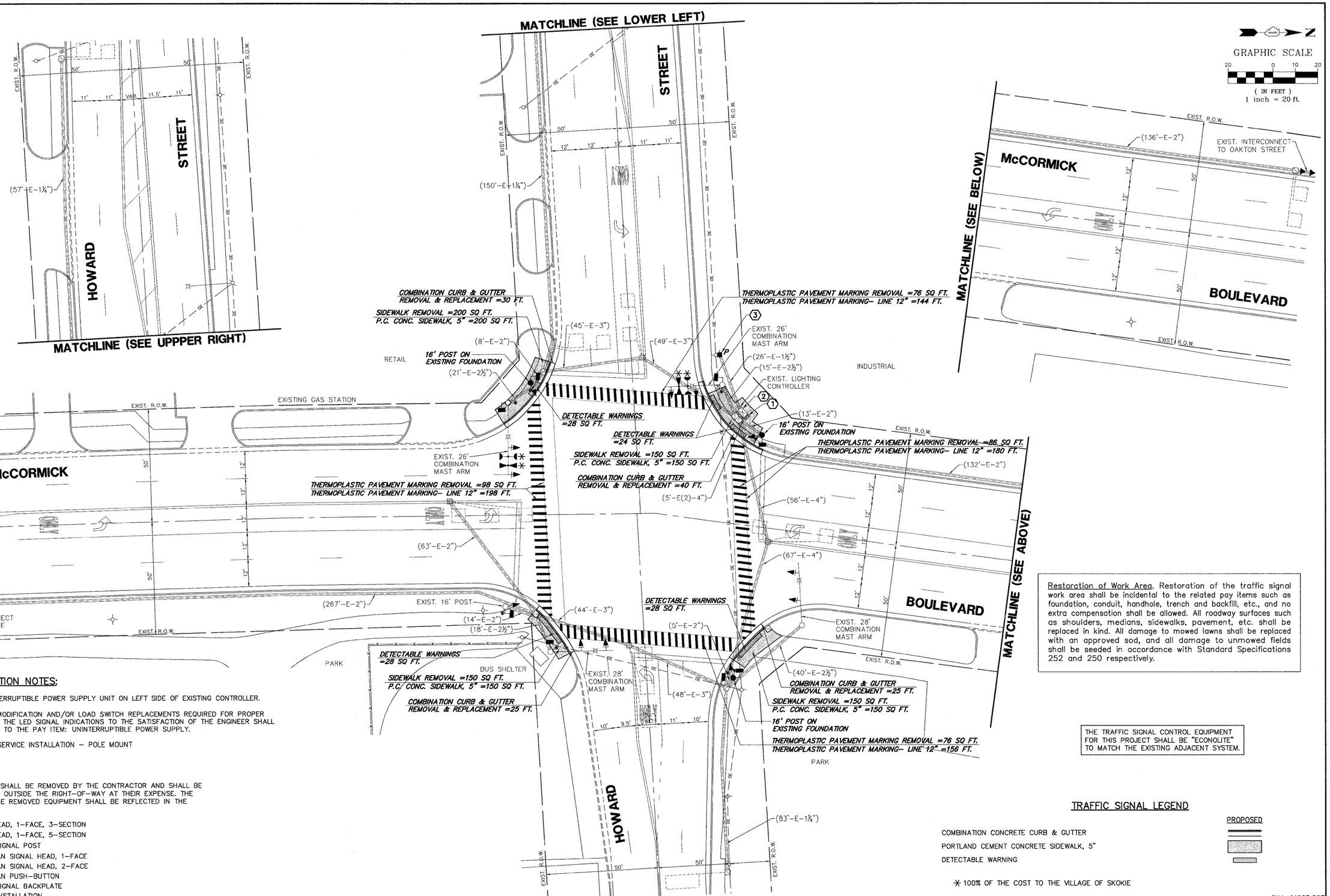
FILE NAME = 4085.867–872–CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
McCORMICK BOULEVARD AT TOUHY AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	15
		CONTRACT #:	60K24	
	ILLINOIS FED. AID PROJECT			



CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT ON LEFT SIDE OF EXISTING CONTROLLER.
2. ALL CABINET MODIFICATION AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF THE LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. INSTALL NEW SERVICE INSTALLATION – POLE MOUNT

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

4	EACH	SIGNAL HEAD, 1–FACE, 3–SECTION
8	EACH	SIGNAL HEAD, 1–FACE, 5–SECTION
3	EACH	TRAFFIC SIGNAL POST
1	EACH	PEDESTRIAN SIGNAL HEAD, 1–FACE
3	EACH	PEDESTRIAN SIGNAL HEAD, 2–FACE
4	EACH	PEDESTRIAN PUSH–BUTTON
8	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

TRAFFIC SIGNAL LEGEND

	PROPOSED
COMBINATION CONCRETE CURB & GUTTER	
PORTLAND CEMENT CONCRETE SIDEWALK, 5"	
DETECTABLE WARNING	

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

GHA #4085.867

FILE NAME = McCORMICK@HOWARD.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN McCORMICK BOULEVARD AT HOWARD STREET
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

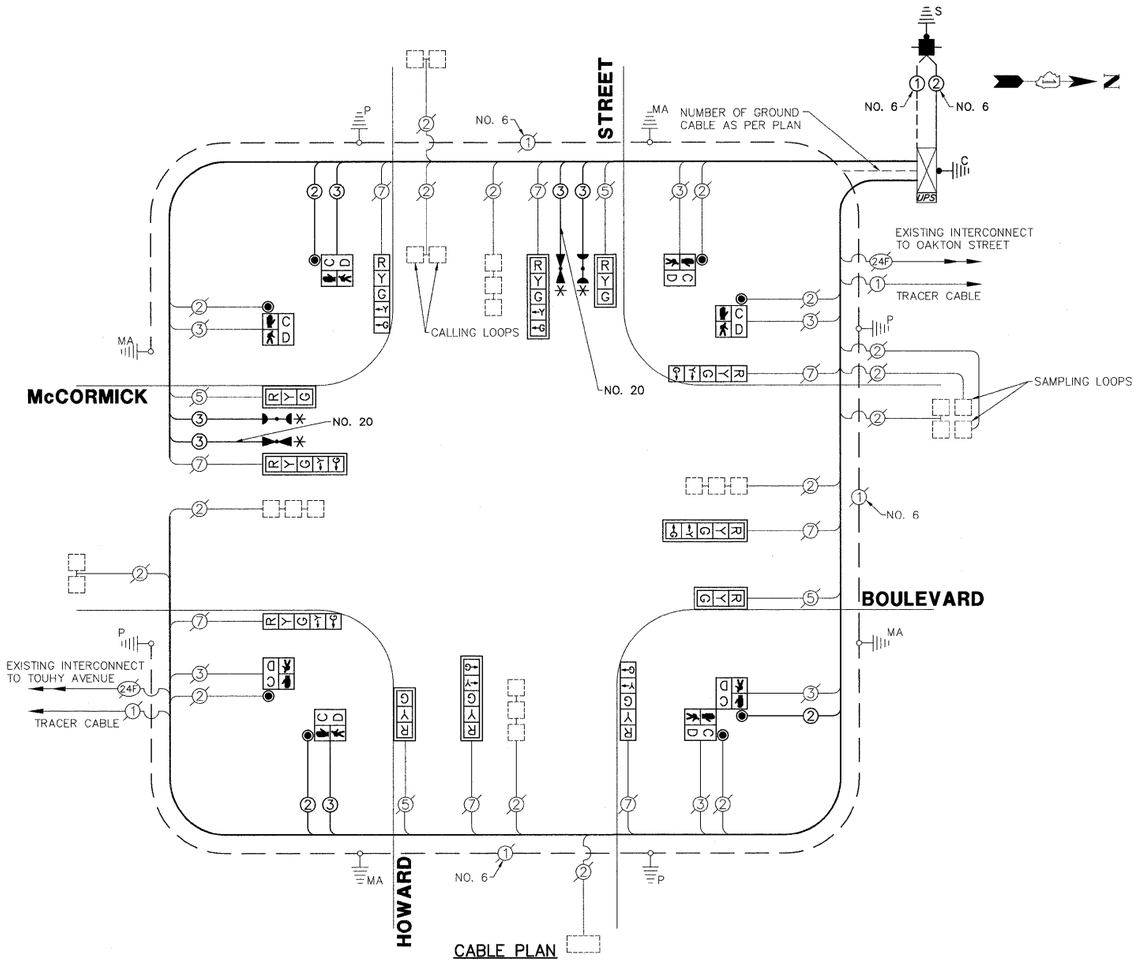
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	16
		CONTRACT #:	60K24	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

McCORMICK BOULEVARD AT HOWARD STREET

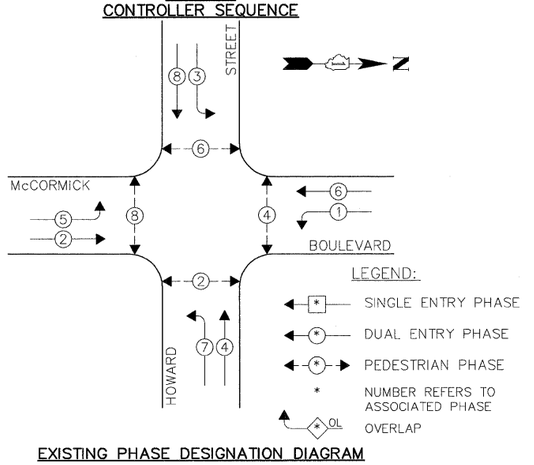
NO.	QUANT.	UNIT	
1.	5	CU YD	EARTH EXCAVATION
2.	20	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
3.	850	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
4.	108	SQ FT	DETECTABLE WARNINGS
5.	650	SQ FT	SIDEWALK REMOVAL
6.	120	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
7.	0.05	L SUM	MOBILIZATION
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
9.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
10.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
11.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
12.	678	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
13.	336	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
14.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
15.	429	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
16.	766	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
17.	47	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
18.	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
19.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
20.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
21.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
22.	6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
23.	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
24.	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
✳25.	2	EACH	LIGHT DETECTOR
✳26.	1	EACH	LIGHT DETECTOR AMPLIFIER
27.	8	EACH	PEDESTRIAN PUSH-BUTTON
28.	503	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
29.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
30.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
31.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
32.	34	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
✳33.	319	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE



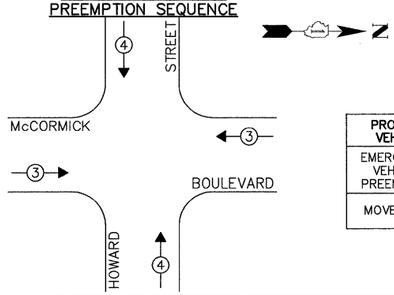
CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

PROPOSED 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
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	30.0
SIGNAL (GREEN)	12	135	15	0.25	72.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	--	100	1.00	100.0
LUMINAIRE	--	--	250	0.50	--
L.E.D. ST. NAME SIGN	--	--	64	0.50	--
VIDEO SYSTEM	--	--	150	1.00	--
BATTERY BACKUP	1	--	25	1.00	25.0
ILLUMINATED SIGN	--	--	25	0.05	--
				TOTAL =	548.2

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

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

GHA #4085.867

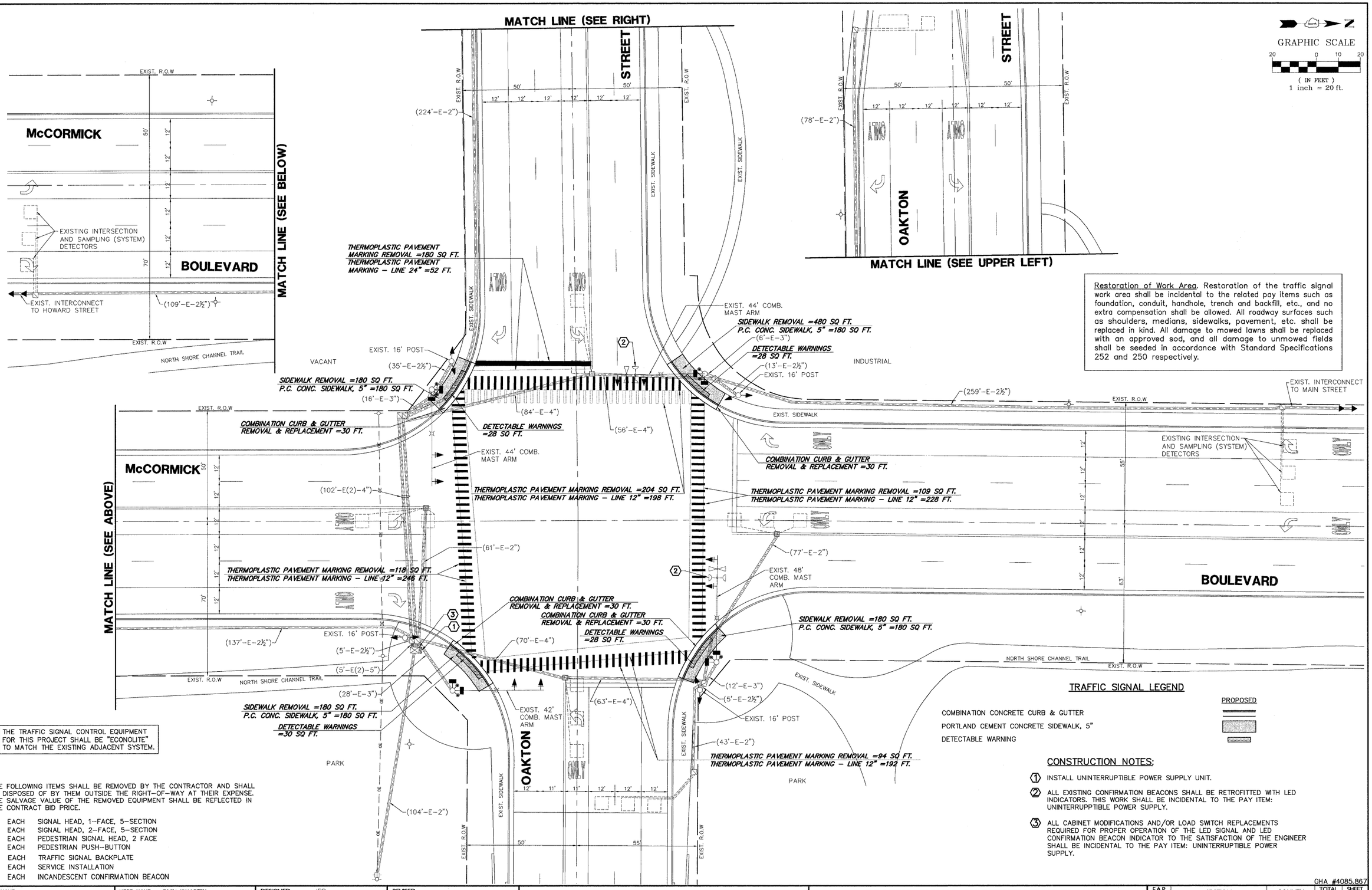
FILE NAME = 4085.867-872-CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	
		DRAWN - MEM	REVISED -	
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -	
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
McCORMICK BOULEVARD AT HOWARD STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	17
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		



Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

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

8	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 2 FACE
4	EACH	PEDESTRIAN PUSH-BUTTON
8	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION
4	EACH	INCANDESCENT CONFIRMATION BEACON

TRAFFIC SIGNAL LEGEND

PROPOSED

COMBINATION CONCRETE CURB & GUTTER

PORTLAND CEMENT CONCRETE SIDEWALK, 5"

DETECTABLE WARNING

CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT.
2. ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH LED INDICATORS. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF THE LED SIGNAL AND LED CONFIRMATION BEACON INDICATOR TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.

GHA #4085.867

FILE NAME = McCORMICK@OAKTON.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
McCORMICK BOULEVARD AT OAKTON STREET

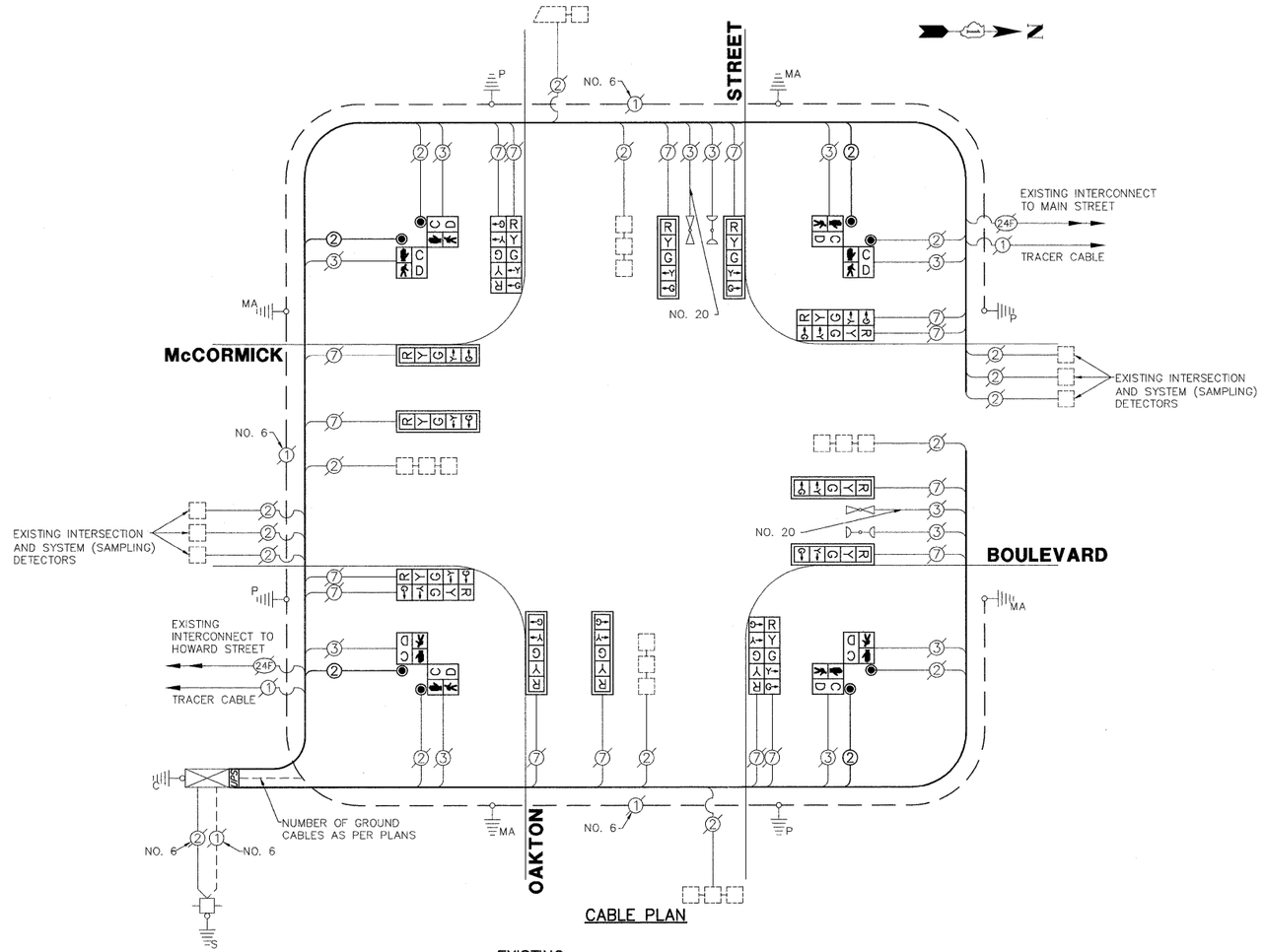
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	18
		CONTRACT #:	60K24	
		ILLINOIS FED. AID PROJECT		

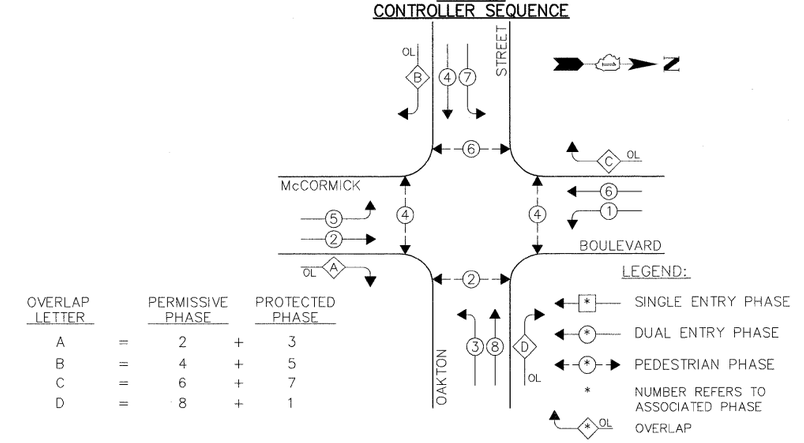
SCHEDULE OF QUANTITIES

McCORMICK BOULEVARD AT OAKTON STREET

NO.	QUANT.	UNIT	
1.	720	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
2.	112	SQ FT	DETECTABLE WARNINGS
3.	720	SQ FT	SIDEWALK REMOVAL
4.	120	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
5.	0.05	L SUM	MOBILIZATION
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
7.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
9.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
10.	864	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
11.	52	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
12.	634	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
13.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
14.	711	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
15.	8	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
16.	4	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
17.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
18.	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
19.	8	EACH	PEDESTRIAN PUSH-BUTTON
20.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
21.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY

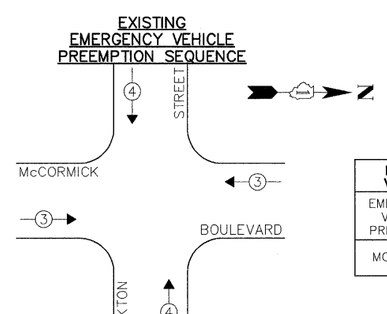


CABLE PLAN



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

EXISTING PHASE DESIGNATION DIAGRAM



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	40.0
SIGNAL (GREEN)	16	135	15	0.25	96.0
ARROW	32	135	12	0.10	38.4
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	635.4

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816–5465
COMPANY: COM–ED

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

GHA #4085.867

FILE NAME = 4085.867–872–CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED – JRD	REVISED –
		DRAWN – MEM	REVISED –
	PLOT SCALE = 1" = .0833'	CHECKED – KLB	REVISED –
	PLOT DATE = 10/29/2010	DATE – 10/29/2010	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

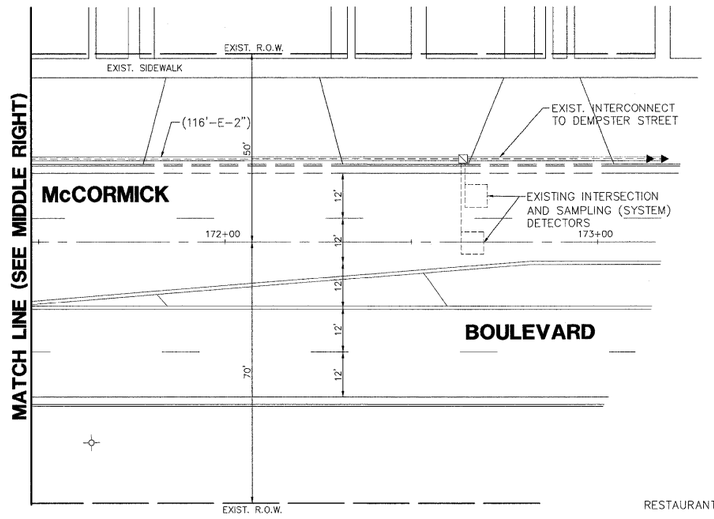
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
McCORMICK BOULEVARD AT OAKTON STREET

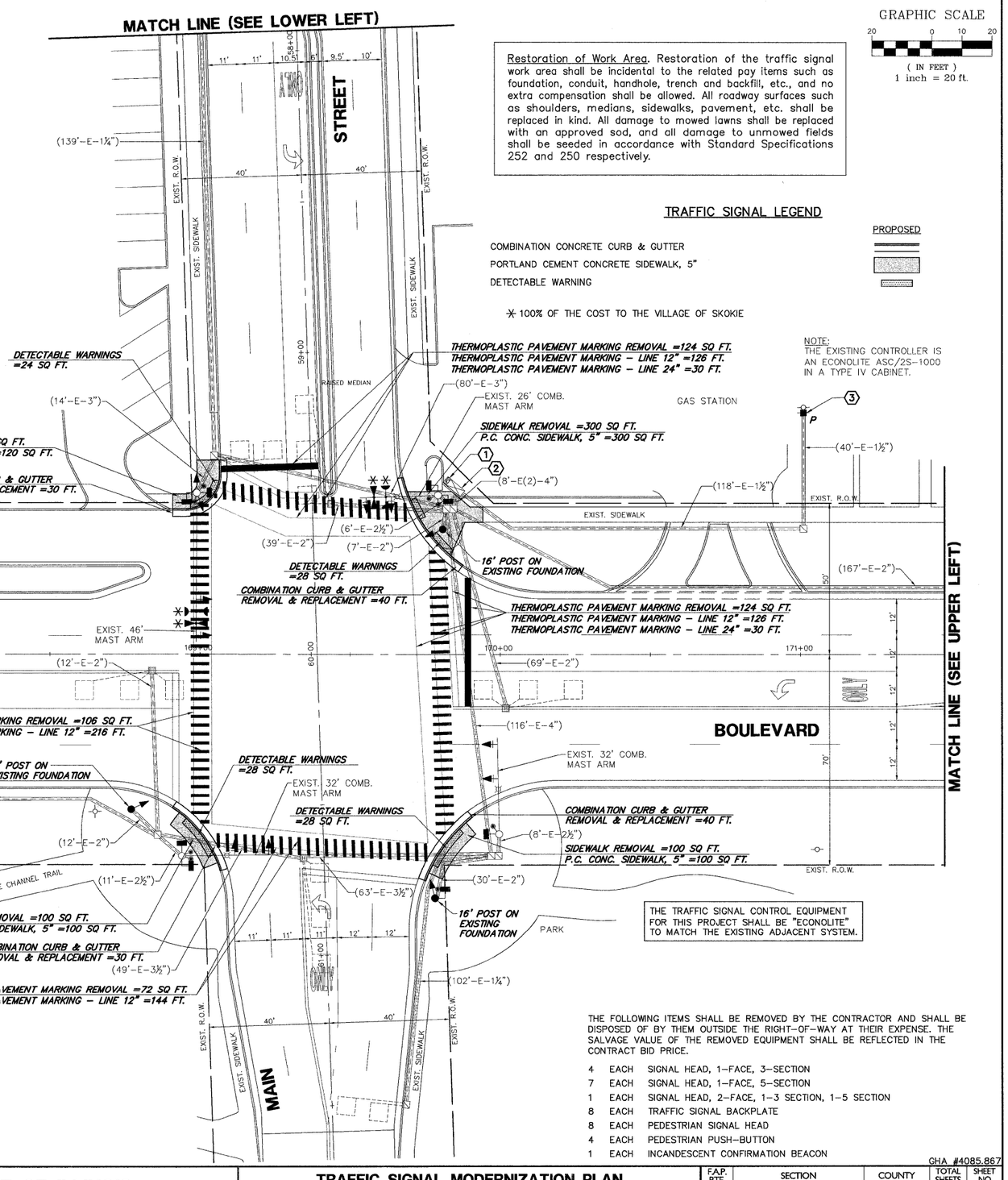
SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

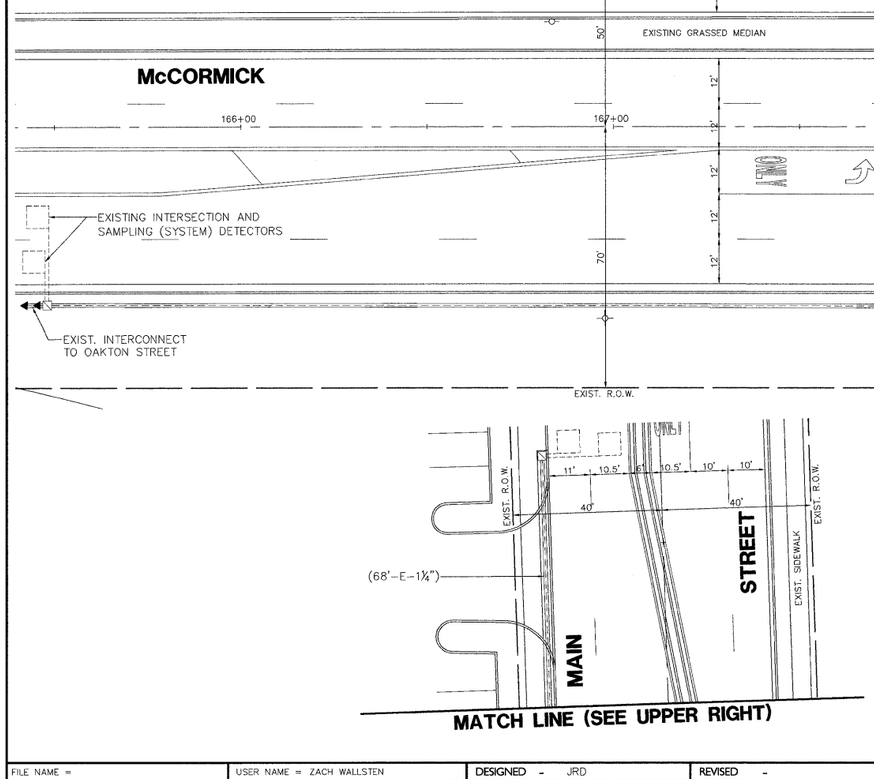
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	19
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT.
2. ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATIONS OF THE LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. INSTALL NEW SERVICE INSTALLATION–POLE MOUNT.







GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

TRAFFIC SIGNAL LEGEND

PROPOSED

COMBINATION CONCRETE CURB & GUTTER

PORTLAND CEMENT CONCRETE SIDEWALK, 5"

DETECTABLE WARNING

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

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

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

4	EACH	SIGNAL HEAD, 1–FACE, 3–SECTION
7	EACH	SIGNAL HEAD, 1–FACE, 5–SECTION
1	EACH	SIGNAL HEAD, 2–FACE, 1–3 SECTION, 1–5 SECTION
8	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN SIGNAL HEAD
4	EACH	PEDESTRIAN PUSH–BUTTON
1	EACH	INCANDESCENT CONFIRMATION BEACON

GHA #4085.867

FILE NAME = McCORMICK@MAIN.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
McCORMICK BOULEVARD AT MAIN STREET

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

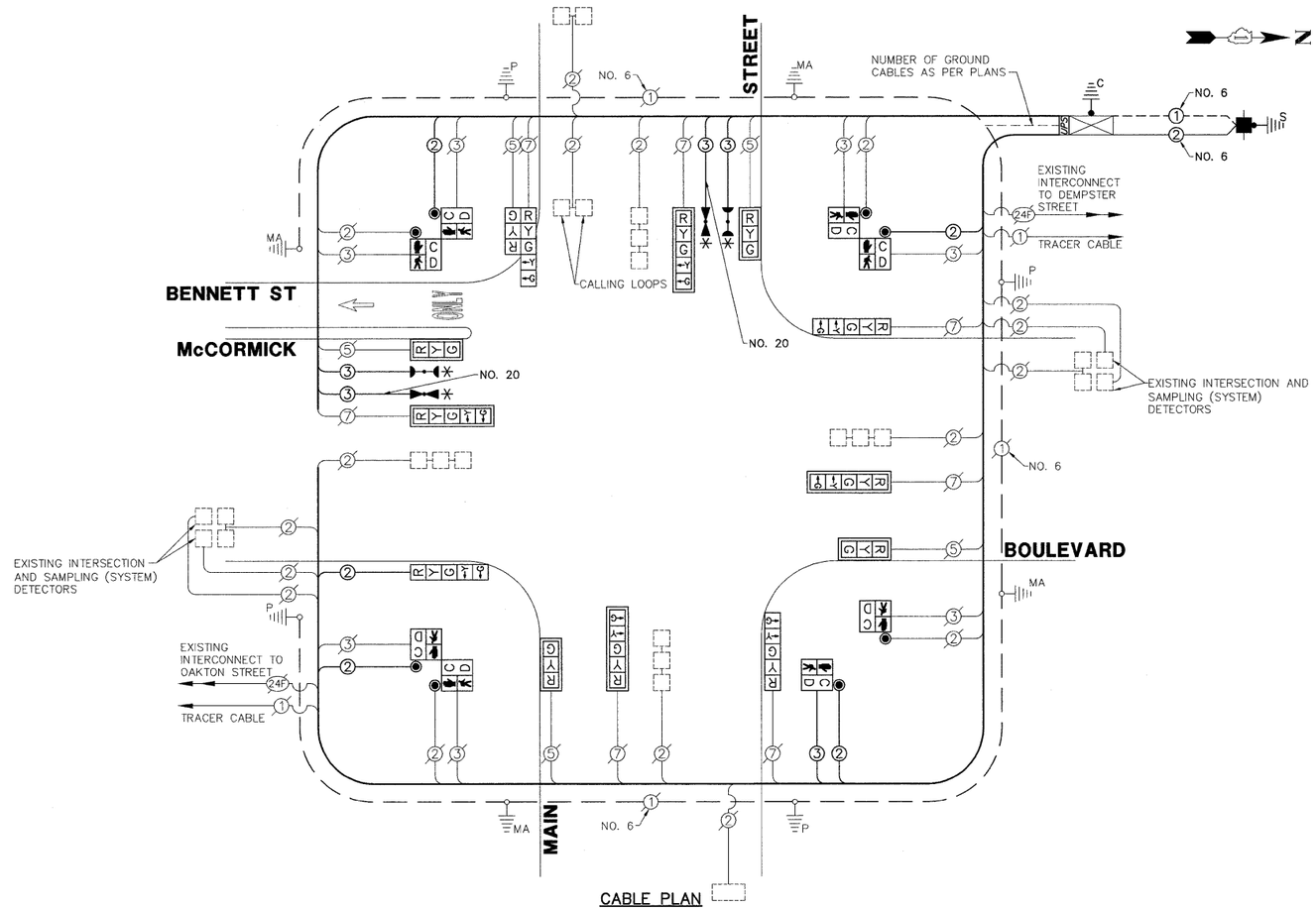
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	20
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

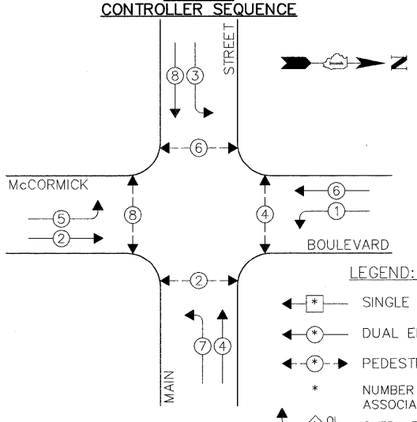
McCORMICK BOULEVARD AT MAIN STREET

NO.	QUANT.	UNIT	
1.	620	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
2.	108	SQ FT	DETECTABLE WARNINGS
3.	620	SQ FT	SIDEWALK REMOVAL
4.	130	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
5.	0.05	L SUM	MOBILIZATION
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
7.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
9.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
10.	672	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
11.	72	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
12.	502	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
13.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
14.	664	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
15.	478	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
16.	186	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
17.	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
18.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
19.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
20.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
21.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
22.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
23.	3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
24.	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
✳25.	2	EACH	LIGHT DETECTOR
✳26.	1	EACH	LIGHT DETECTOR AMPLIFIER
27.	8	EACH	PEDESTRIAN PUSH-BUTTON
28.	413	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
29.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
30.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
31.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
32.	186	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
✳33.	277	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

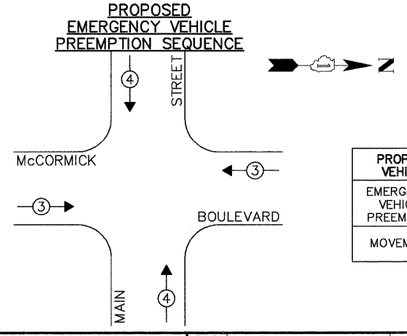
✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE



CABLE PLAN



EXISTING PHASE DESIGNATION DIAGRAM



PROPOSED 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 L.E.D.	% OPERATION	
SIGNAL (RED)	13	135	17	0.50	110.5
SIGNAL (YELLOW)	13	135	25	0.25	32.5
SIGNAL (GREEN)	13	135	15	0.25	78.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	565.2

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

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

GHA #4085.867

FILE NAME = 4085.867-872-CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
McCORMICK BOULEVARD AT MAIN STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	21
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

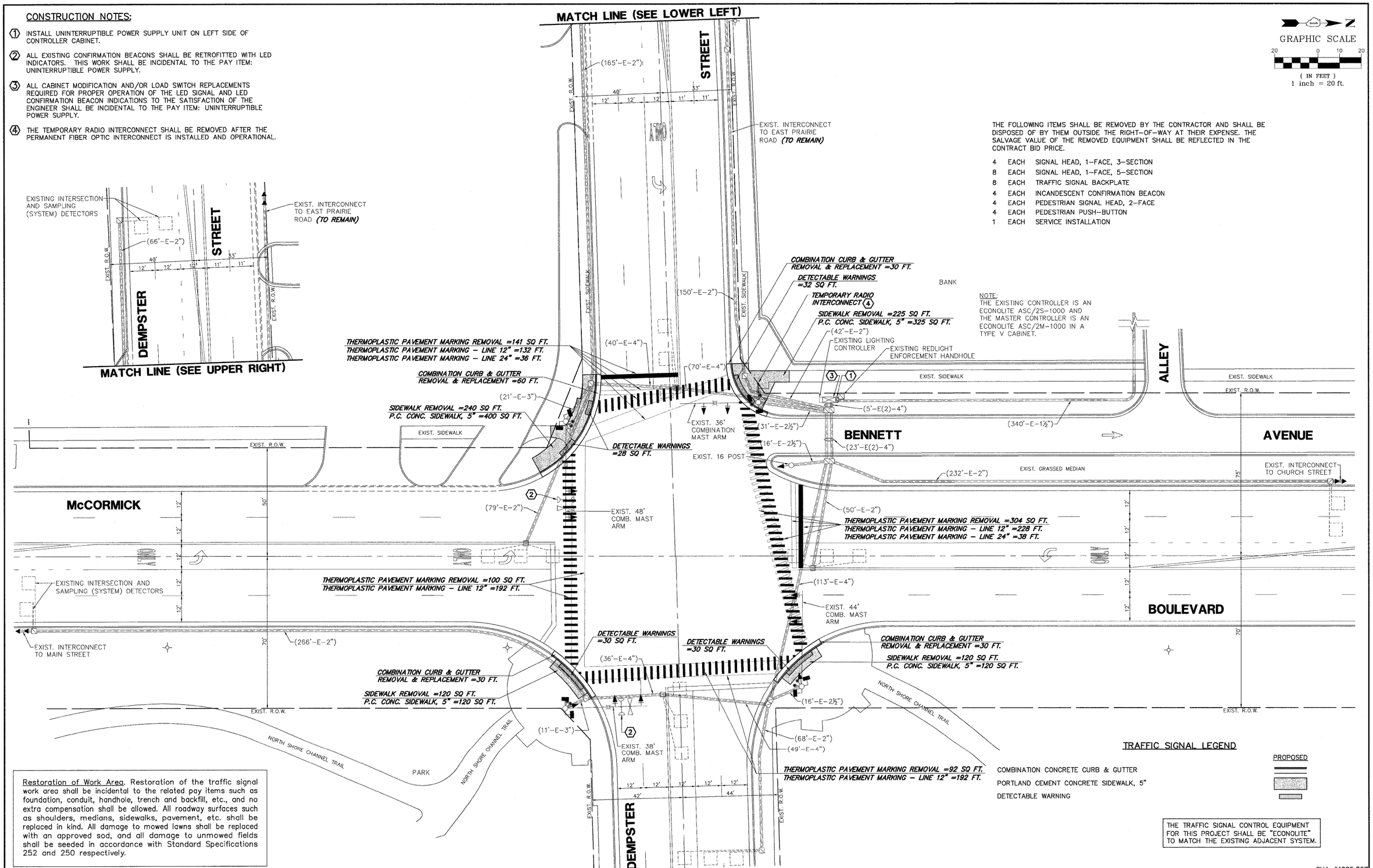
CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT ON LEFT SIDE OF CONTROLLER CABINET.
2. ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH LED INDICATORS. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. ALL CABINET MODIFICATION AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF THE LED SIGNAL AND LED CONFIRMATION BEACON INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
4. THE TEMPORARY RADIO INTERCONNECT SHALL BE REMOVED AFTER THE PERMANENT FIBER OPTIC INTERCONNECT IS INSTALLED AND OPERATIONAL.

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

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

4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
8	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
8	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	INCANDESCENT CONFIRMATION BEACON
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION



Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

TRAFFIC SIGNAL LEGEND

PROPOSED

COMBINATION CONCRETE CURB & GUTTER

PORTLAND CEMENT CONCRETE SIDEWALK, 5"

DETECTABLE WARNING

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

GHA #4085.867

FILE NAME = McCORMICK@DEMPSTER.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
McCORMICK AVENUE AT DEMPSTER STREET

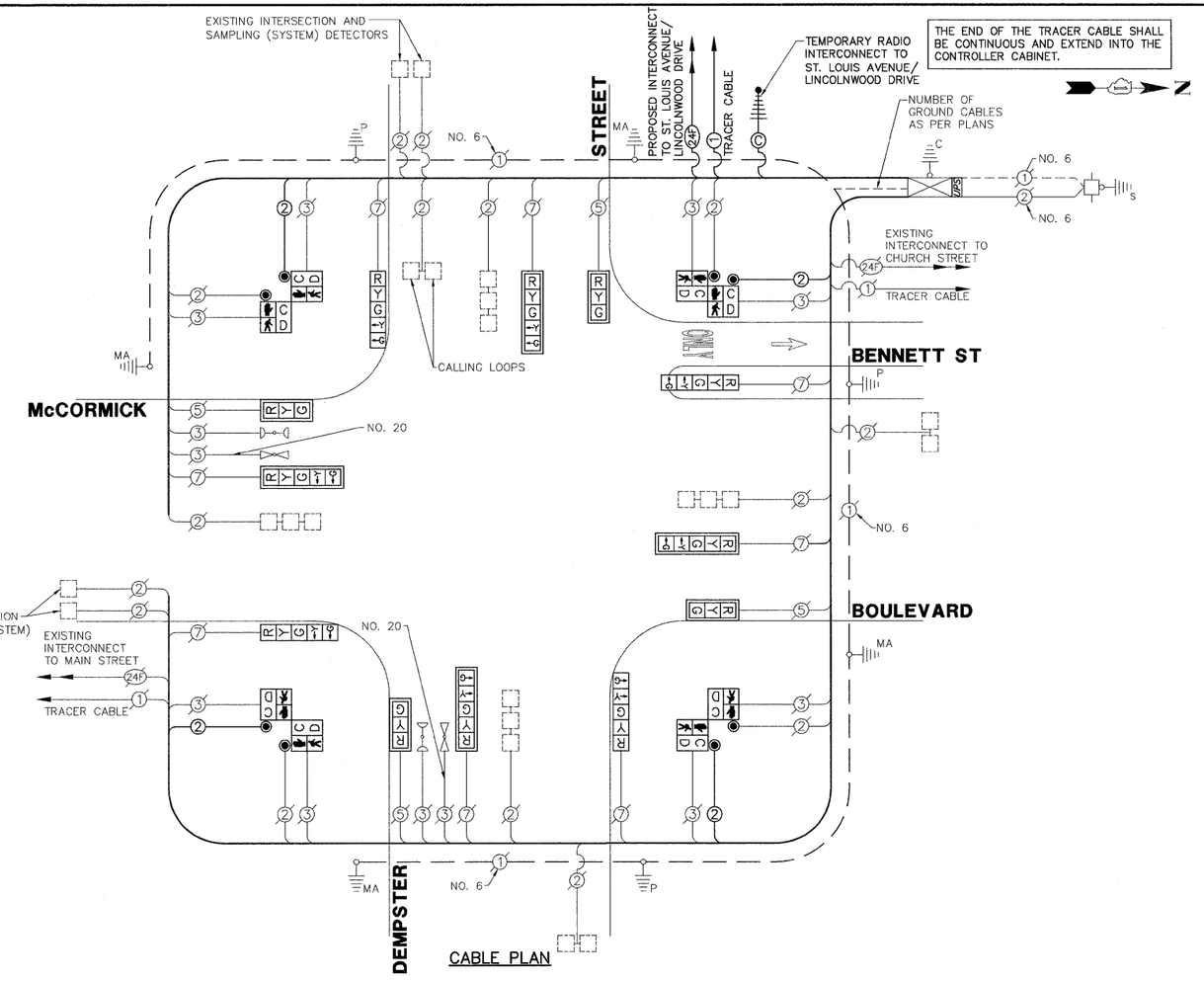
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	22
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

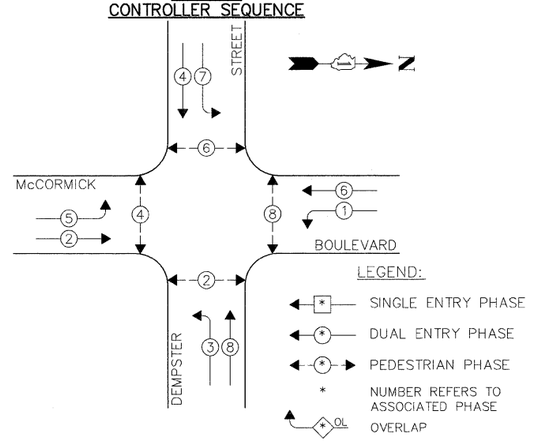
McCORMICK BOULEVARD AT DEMPSTER STREET

NO.	QUANT.	UNIT	
1.	5	CU YD	EARTH EXCAVATION
2.	20	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
3.	965	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
4.	122	SQ FT	DETECTABLE WARNINGS
5.	755	SQ FT	SIDEWALK REMOVAL
6.	150	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
7.	0.05	L SUM	MOBILIZATION
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
9.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
10.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
11.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
12.	744	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
13.	74	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
14.	638	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
15.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
16.	718	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
17.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
18.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
19.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
20.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
21.	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
22.	8	EACH	PEDESTRIAN PUSH-BUTTON
23.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
24.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY



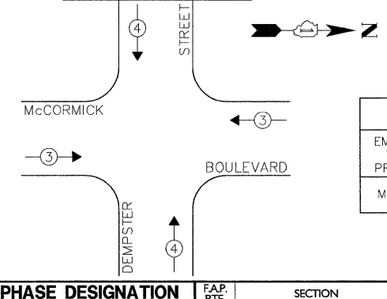
CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	30.0
SIGNAL (GREEN)	12	135	15	0.25	72.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	23.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	548.2

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

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

GHA #4085.867

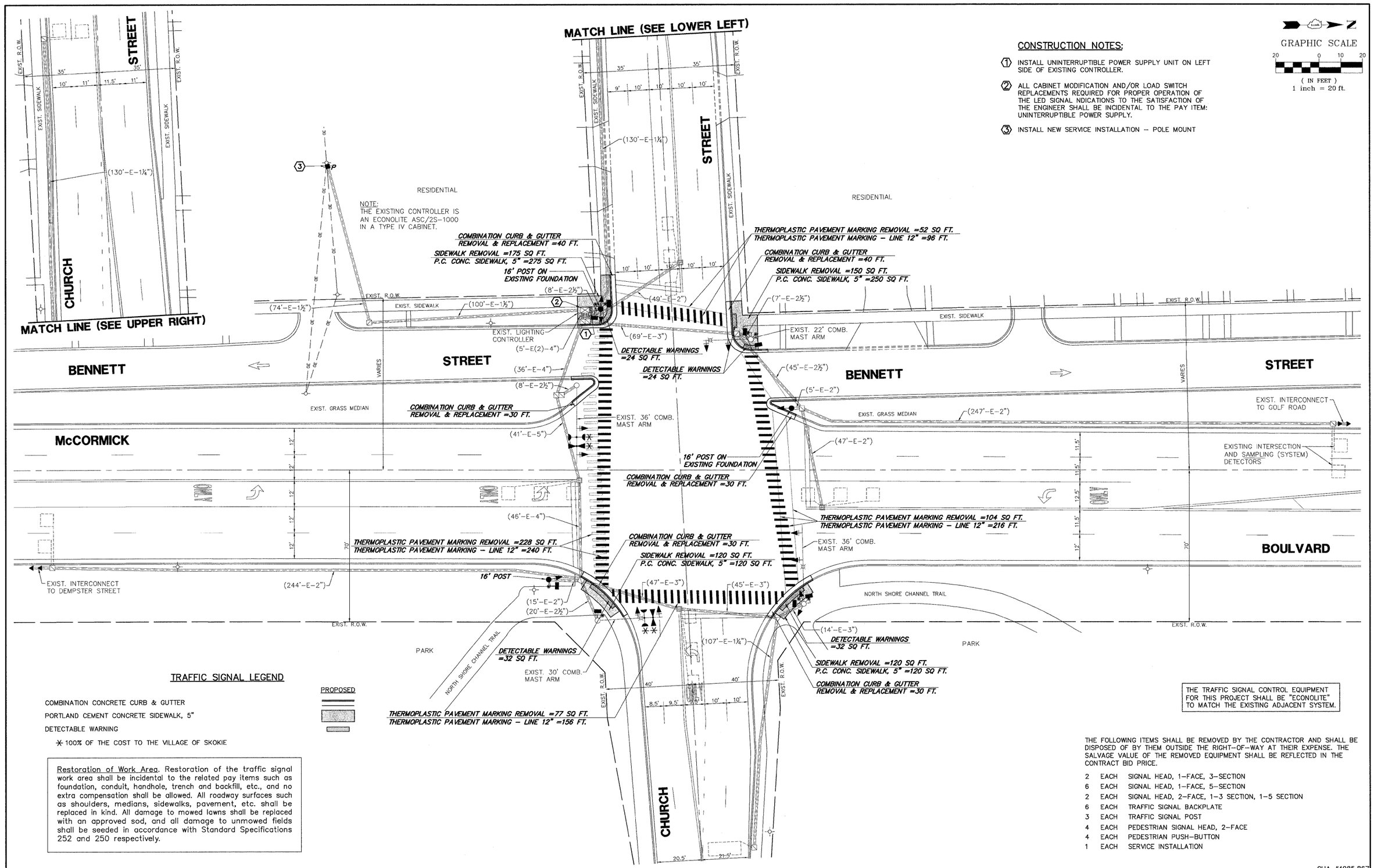
FILE NAME = 4085.867-872-CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
McCORMICK BOULEVARD AT DEMPSTER STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	23
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		



CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT ON LEFT SIDE OF EXISTING CONTROLLER.
2. ALL CABINET MODIFICATION AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF THE LED SIGNAL NDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. INSTALL NEW SERVICE INSTALLATION – POLE MOUNT

TRAFFIC SIGNAL LEGEND

PROPOSED

COMBINATION CONCRETE CURB & GUTTER

PORTLAND CEMENT CONCRETE SIDEWALK, 5"

DETECTABLE WARNING

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

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

2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
6	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
6	EACH	TRAFFIC SIGNAL BACKPLATE
3	EACH	TRAFFIC SIGNAL POST
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION

GHA #4085.867

FILE NAME = McCORMICK@CHURCH.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
McCORMICK BOULEVARD AT CHURCH STREET

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

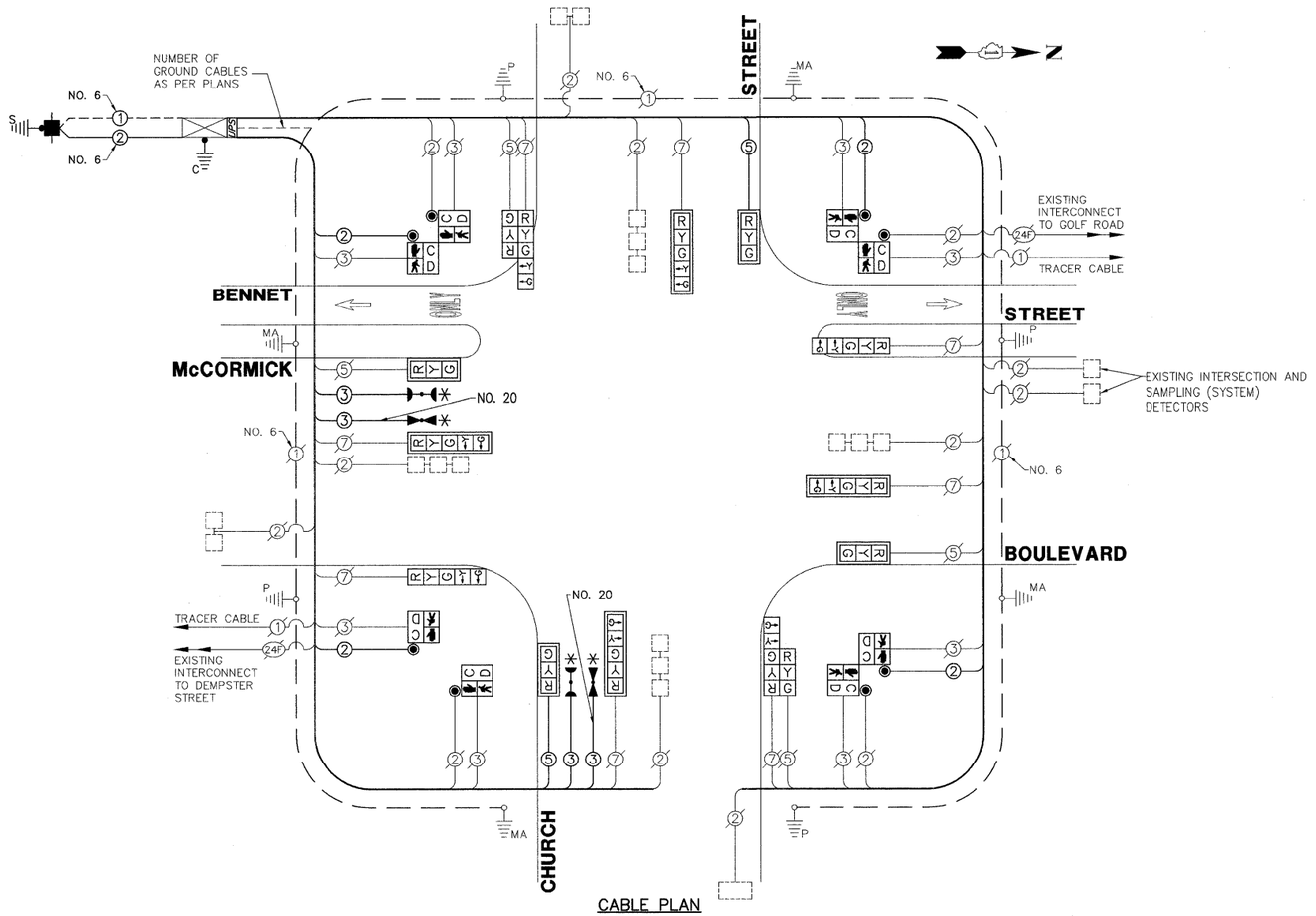
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	24
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

McCORMICK BOULEVARD AT CHURCH STREET

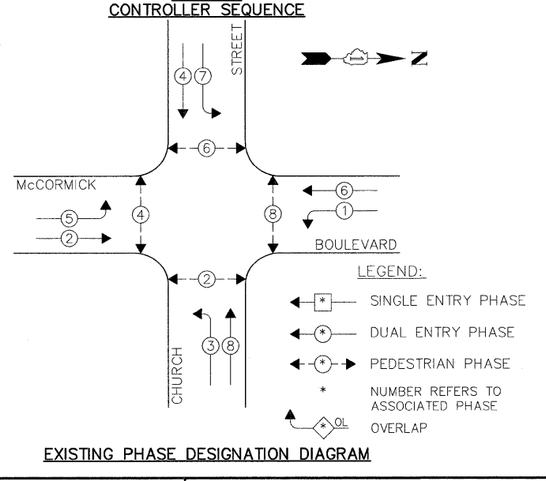
NO.	QUANT.	UNIT	
1.	6	CU YD	EARTH EXCAVATION
2.	20	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
3.	765	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
4.	112	SQ FT	DETECTABLE WARNINGS
5.	565	SQ FT	SIDEWALK REMOVAL
6.	200	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
7.	0.05	L SUM	MOBILIZATION
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
9.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
10.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
11.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
12.	708	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
13.	462	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
14.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
15.	643	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
✳16.	384	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
17.	396	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
18.	202	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
19.	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
20.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
21.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
22.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
23.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
24.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
25.	3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
26.	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
✳27.	2	EACH	LIGHT DETECTOR
✳28.	1	EACH	LIGHT DETECTOR AMPLIFIER
29.	8	EACH	PEDESTRIAN PUSH-BUTTON
30.	378	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
31.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
32.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
33.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
34.	202	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
✳35.	384	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE



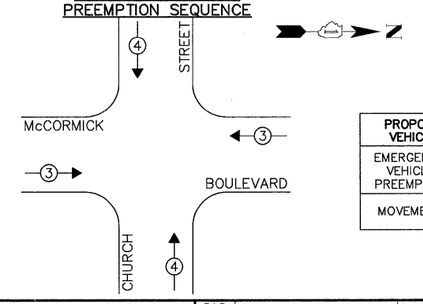
CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

PROPOSED 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 L.E.D.	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	35.0
SIGNAL (GREEN)	14	135	15	0.25	84.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	582.2

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816–5465
COMPANY: COM–ED

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

GHA #4085.867

FILE NAME = 4085.867–872–CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE McCORMICK BOULEVARD AT CHURCH STREET
		DRAWN - MEM	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	25
		CONTRACT #:	60K24	
	ILLINOIS | FED. AID PROJECT			

CONSTRUCTION NOTES:

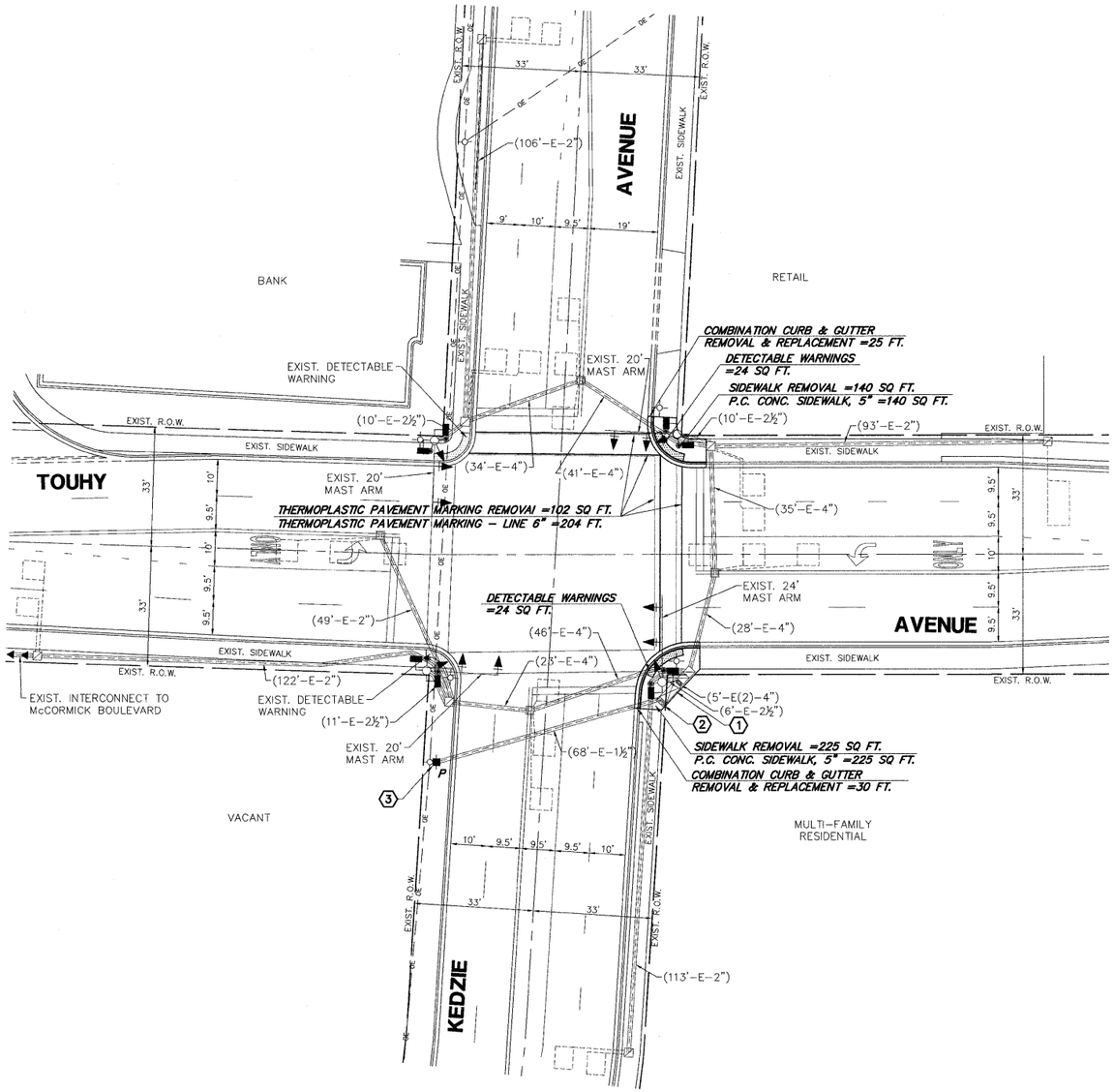
1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT.
2. ALL CABINET MODIFICATION AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF THE LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. INSTALL NEW SERVICE INSTALLATION – POLE MOUNT

N

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.



Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

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

4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
8	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
8	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION

TRAFFIC SIGNAL LEGEND

	PROPOSED
COMBINATION CONCRETE CURB & GUTTER	
PORTLAND CEMENT CONCRETE SIDEWALK, 5"	
DETECTABLE WARNING	

GHA #4085.868

FILE NAME = Touhy @ Kedzie.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
TOUHY STREET AT KEDZIE AVENUE

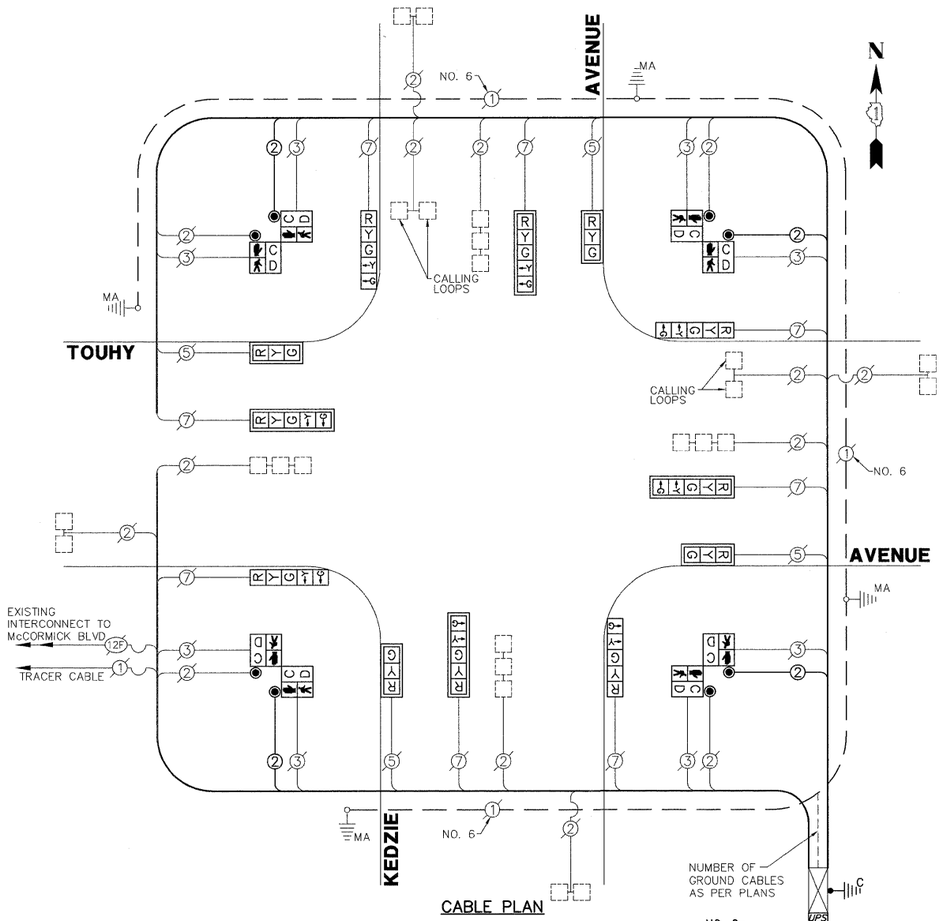
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	26
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			

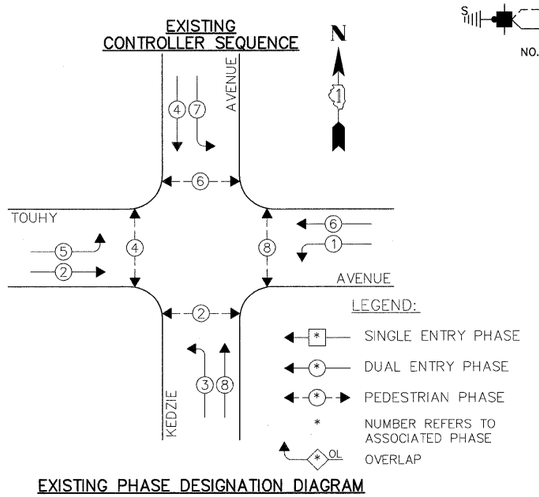
SCHEDULE OF QUANTITIES

TOUHY AVENUE AT KEDZIE AVENUE

NO.	QUANT.	UNIT	
1.	365	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
2.	48	SQ FT	DETECTABLE WARNINGS
3.	365	SQ FT	SIDEWALK REMOVAL
4.	55	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
5.	0.05	L SUM	MOBILIZATION
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
7.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
9.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
10.	204	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
11.	102	SQ FT	PAVEMENT MARKING REMOVAL
12.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
13.	479	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
14.	89	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
15.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
16.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
17.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
18.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
19.	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
20.	8	EACH	PEDESTRIAN PUSH-BUTTON
21.	152	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
22.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
23.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
24.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
25.	89	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C



CABLE PLAN



EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	30.0
SIGNAL (GREEN)	12	135	15	0.25	72.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	548.2

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

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

GHA #4085.868

FILE NAME = 4085.867-872-CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

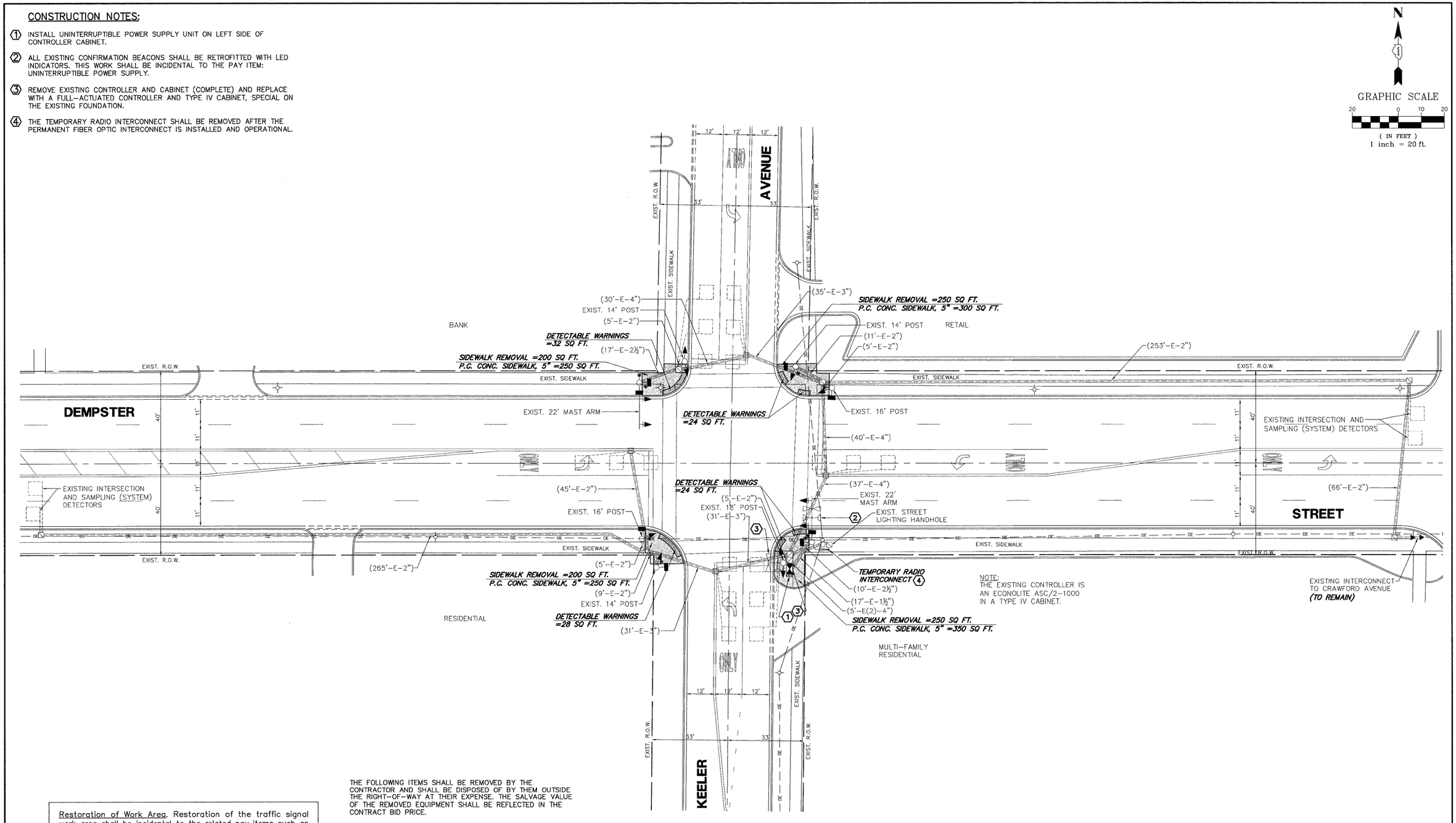
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
TOUHY AVENUE AT KEDZIE AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	27
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT ON LEFT SIDE OF CONTROLLER CABINET.
2. ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH LED INDICATORS. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. REMOVE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON THE EXISTING FOUNDATION.
4. THE TEMPORARY RADIO INTERCONNECT SHALL BE REMOVED AFTER THE PERMANENT FIBER OPTIC INTERCONNECT IS INSTALLED AND OPERATIONAL.



NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-1000 IN A TYPE IV CABINET.

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

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

1	EACH	CONTROLLER AND CABINET, COMPLETE
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
8	EACH	PEDESTRIAN PUSH-BUTTON
4	EACH	INCANDESCENT CONFIRMATION BEACON

GHA #4085.868

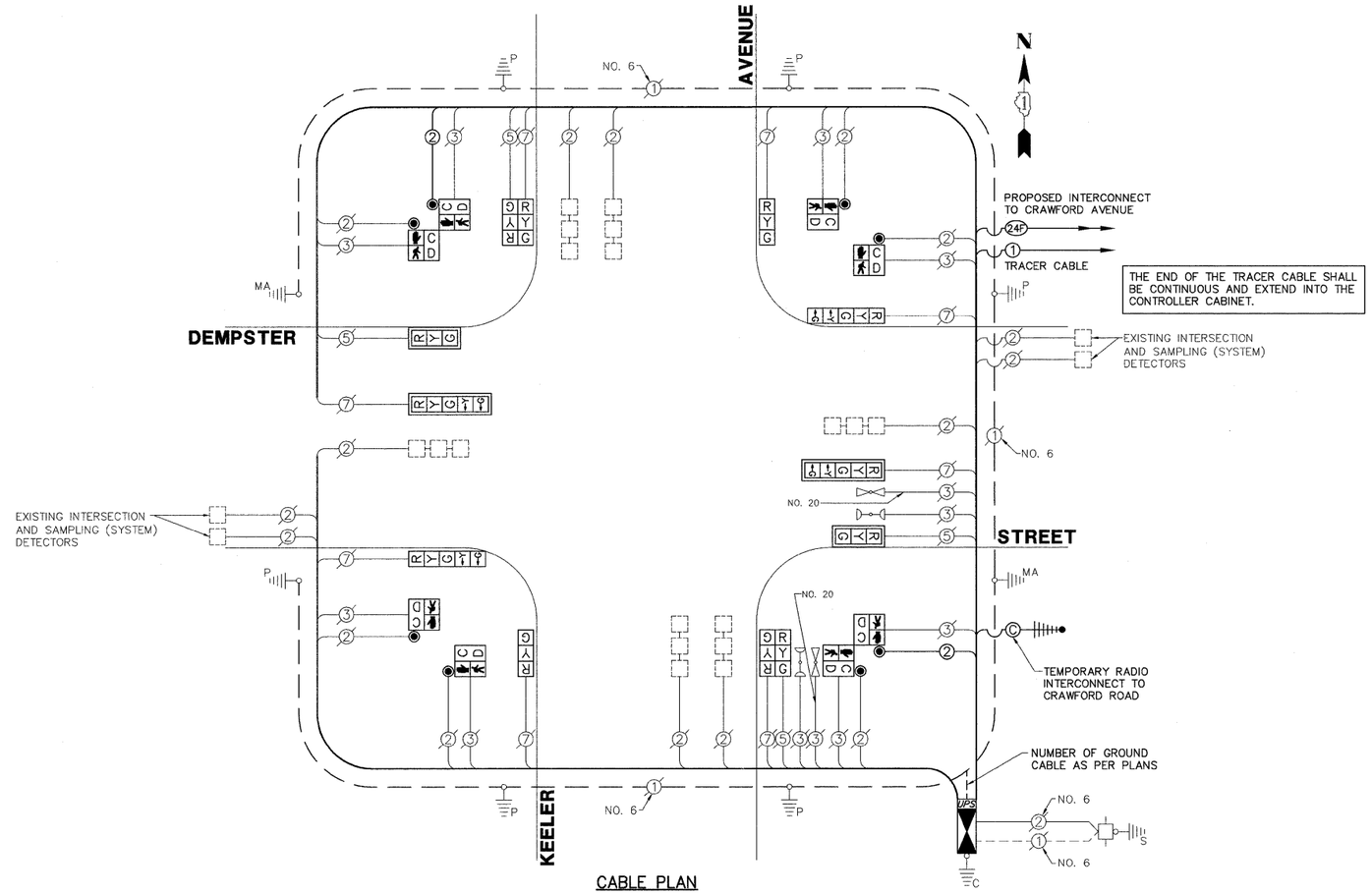
FILE NAME = Dempster @ Keeler.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TRAFFIC SIGNAL MODERNIZATION PLAN DEMPSTER STREET AT KEELER AVENUE**
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .08'	CHECKED - KLB	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	28
		CONTRACT #:	60K24	
		ILLINOIS FED. AID PROJECT		

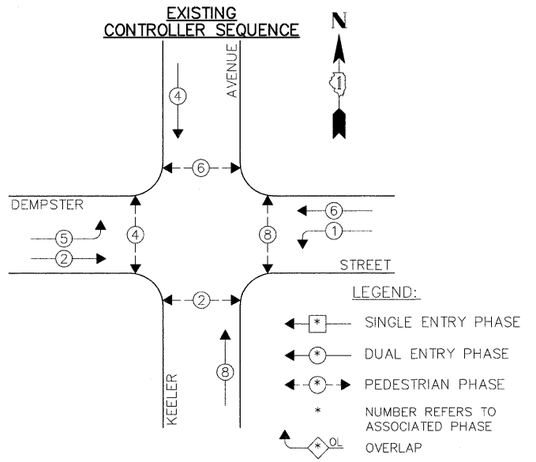
SCHEDULE OF QUANTITIES

DEMPSTER STREET AT KEELER AVENUE

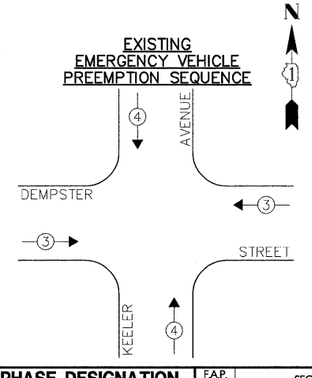
NO.	QUANT.	UNIT	
1.	5	CU YD	EARTH EXCAVATION
2.	22	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
3.	1,100	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
4.	108	SQ FT	DETECTABLE WARNINGS
5.	900	SQ FT	SIDEWALK REMOVAL
6.	0.05	L SUM	MOBILIZATION
7.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
9.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
10.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
11.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
12.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
13.	1	EACH	TRANSCEIVER - FIBER OPTIC
14.	252	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
15.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
16.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
17.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
18.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
19.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
20.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
21.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
22.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
23.	10	EACH	INDUCTIVE LOOP DETECTOR
24.	8	EACH	PEDESTRIAN PUSH-BUTTON
25.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
26.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
27.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY



CABLE PLAN



EXISTING PHASE DESIGNATION DIAGRAM



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	30.0
SIGNAL (GREEN)	12	135	15	0.25	22.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	538.6

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

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

GHA #4085.868

FILE NAME = 4085.867-872-CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

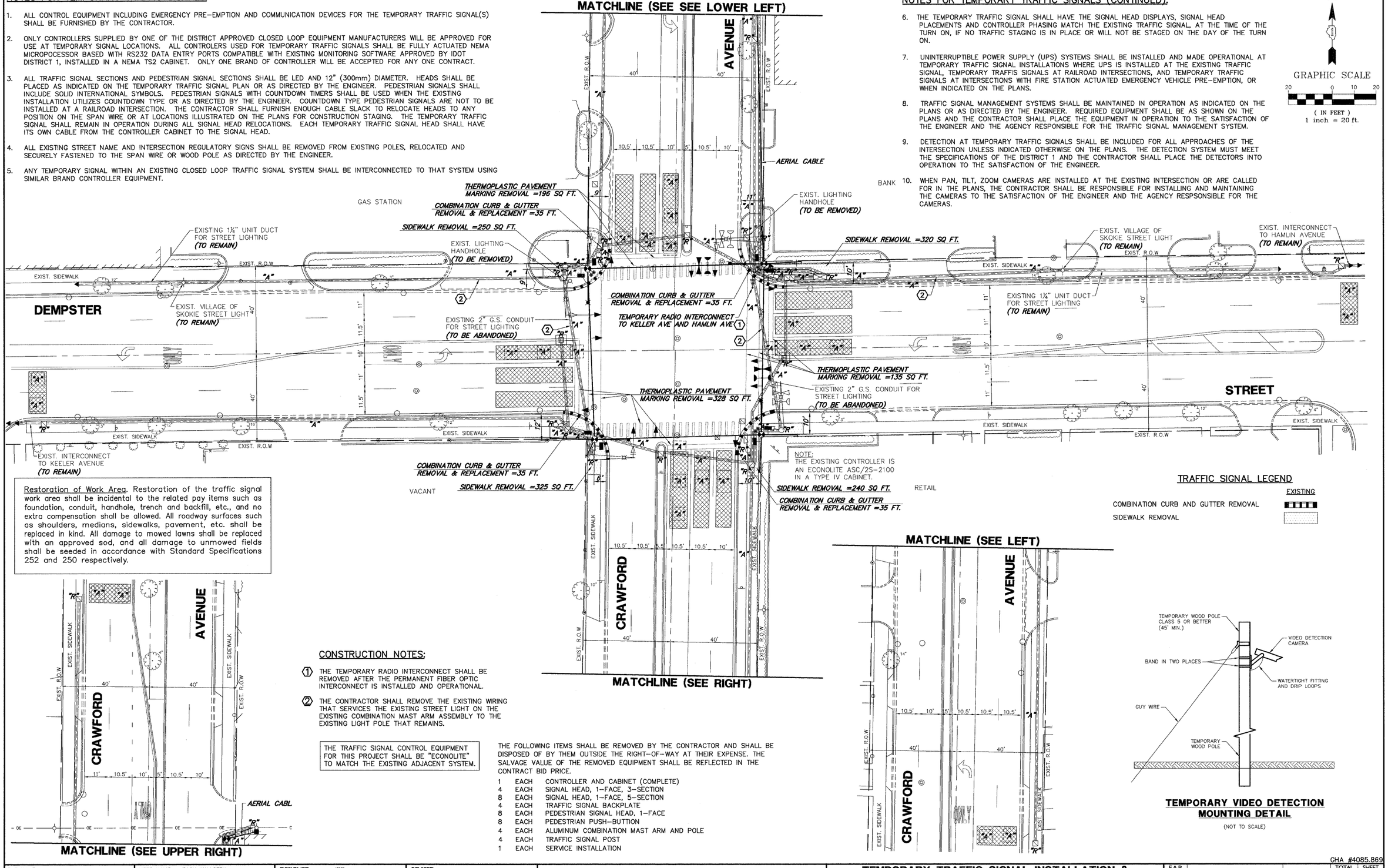
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
DEMPSTER STREET AT KEELER AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	29
		CONTRACT #: 60K24		
		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 CONTROLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPOCESSOR 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 CONTROLLER EQUIPMENT.



NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTINUED):

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 TRAFFIS 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 THE 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 RESPSONSIBLE FOR THE CAMERAS.

N

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

CONSTRUCTION NOTES:

① THE TEMPORARY RADIO INTERCONNECT SHALL BE REMOVED AFTER THE PERMANENT FIBER OPTIC INTERCONNECT IS INSTALLED AND OPERATIONAL.

② THE CONTRACTOR SHALL REMOVE THE EXISTING WIRING THAT SERVICES THE EXISTING STREET LIGHT ON THE EXISTING COMBINATION MAST ARM ASSEMBLY TO THE EXISTING LIGHT POLE THAT REMAINS.

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

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

1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
8	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
8	EACH	PEDESTRIAN PUSH-BUTTION
4	EACH	ALUMINUM COMBINATION MAST ARM AND POLE
4	EACH	TRAFFIC SIGNAL POST
1	EACH	SERVICE INSTALLATION

TRAFFIC SIGNAL LEGEND

	EXISTING
COMBINATION CURB AND GUTTER REMOVAL	
SIDEWALK REMOVAL	

TEMPORARY VIDEO DETECTION MOUNTING DETAIL

(NOT TO SCALE)

GHA #4085.869

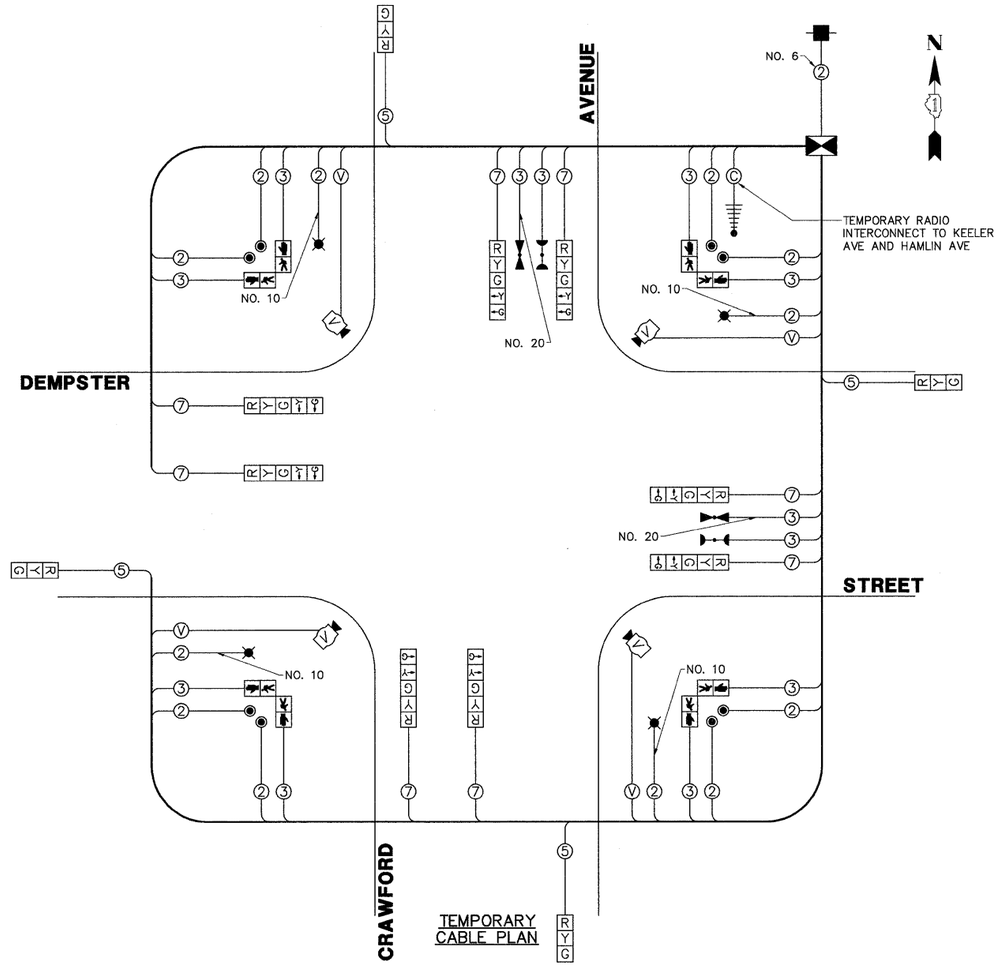
FILE NAME = 4085.869-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	
		DRAWN - ZCW	REVISED -	
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -	
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -	

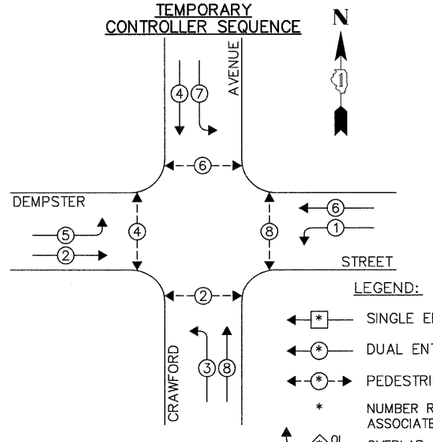
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

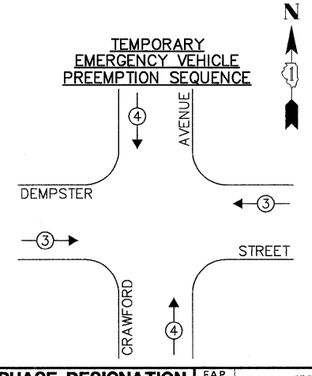
TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT DEMPSTER STREET AT CRAWFORD AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	30
		CONTRACT #:	60K24	
		ILLINOIS FED. AID PROJECT		







TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	↓↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS		WATTAGE			TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	4	150	250	0.50	600.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	841.2

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

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

GHA #4085.869

FILE NAME = 4085.867-872-CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, & TEMPORARY VEHICLE PREEMPTION SEQUENCE
DEMPSTER STREET AT CRAWFORD AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	31
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES:

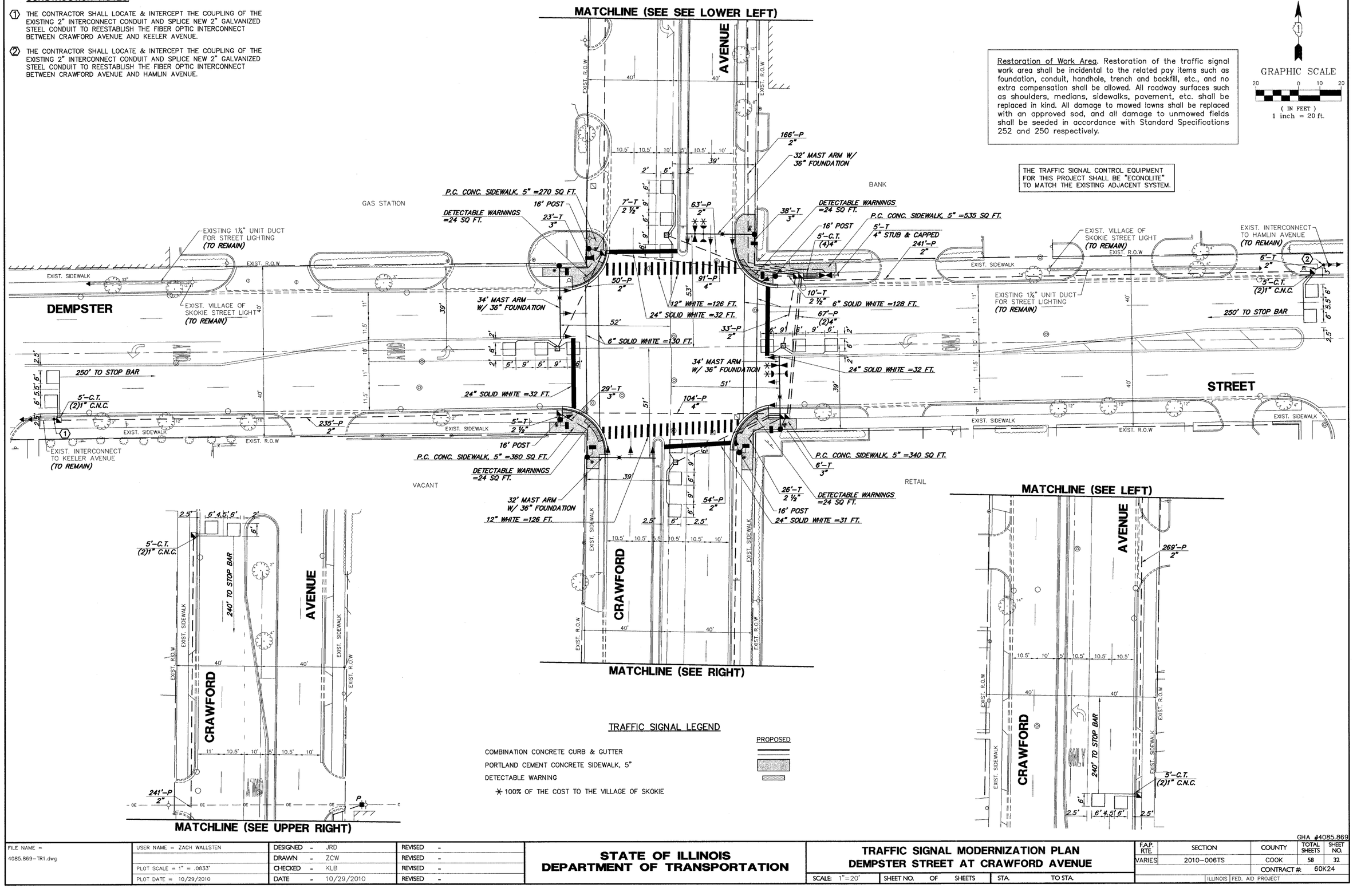
1. THE CONTRACTOR SHALL LOCATE & INTERCEPT THE COUPLING OF THE EXISTING 2" INTERCONNECT CONDUIT AND SPLICE NEW 2" GALVANIZED STEEL CONDUIT TO REESTABLISH THE FIBER OPTIC INTERCONNECT BETWEEN CRAWFORD AVENUE AND KEELER AVENUE.
2. THE CONTRACTOR SHALL LOCATE & INTERCEPT THE COUPLING OF THE EXISTING 2" INTERCONNECT CONDUIT AND SPLICE NEW 2" GALVANIZED STEEL CONDUIT TO REESTABLISH THE FIBER OPTIC INTERCONNECT BETWEEN CRAWFORD AVENUE AND HAMLIN AVENUE.

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

N

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.



TRAFFIC SIGNAL LEGEND

PROPOSED

COMBINATION CONCRETE CURB & GUTTER

PORTLAND CEMENT CONCRETE SIDEWALK, 5"

DETECTABLE WARNING

⚹ 100% OF THE COST TO THE VILLAGE OF SKOKIE

GHA #4085.869

FILE NAME = 4085.869-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN DEMPSTER STREET AT CRAWFORD AVENUE
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	32
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

DEMPSTER STREET AT CRAWFORD AVENUE

NO.	QUANT.	UNIT	
1.	10	CU YD	EARTH EXCAVATION
2.	45	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
3.	1,635	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
4.	96	SQ FT	DETECTABLE WARNINGS
5.	1,135	SQ FT	SIDEWALK REMOVAL
6.	135	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
7.	2.00	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
8.	0.15	L SUM	MOBILIZATION
9.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
10.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
11.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
12.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
13.	36	SQ FT	SIGN PANEL - TYPE 1
14.	258	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
15.	252	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
16.	127	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
17.	659	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
18.	26	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
19.	48	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
20.	96	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
21.	25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
22.	1,352	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
23.	329	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
24.	6	EACH	HANDHOLE
25.	4	EACH	HEAVY-DUTY HANDHOLE
26.	2	EACH	DOUBLE HANDHOLE
27.	156	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
28.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
29.	1	EACH	TRANSCEIVER - FIBER OPTIC
30.	1,098	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
31.	1,429	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
32.	1,398	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
33.	1,330	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
34.	1,945	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
35.	178	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
36.	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
37.	2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.
38.	2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.
39.	16	FOOT	CONCRETE FOUNDATION, TYPE A
40.	4	FOOT	CONCRETE FOUNDATION, TYPE C
41.	44	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
42.	8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
43.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
44.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
45.	8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
46.	12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
47.	8	EACH	INDUCTIVE LOOP DETECTOR
48.	704	FOOT	DETECTOR LOOP, TYPE I
✳49.	2	EACH	LIGHT DETECTOR
✳50.	1	EACH	LIGHT DETECTOR AMPLIFIER
51.	8	EACH	PEDESTRIAN PUSH-BUTTON
52.	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
53.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
54.	12	EACH	REMOVE EXISTING HANDHOLE
55.	9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
56.	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
57.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
58.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
59.	649	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
✳60.	259	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

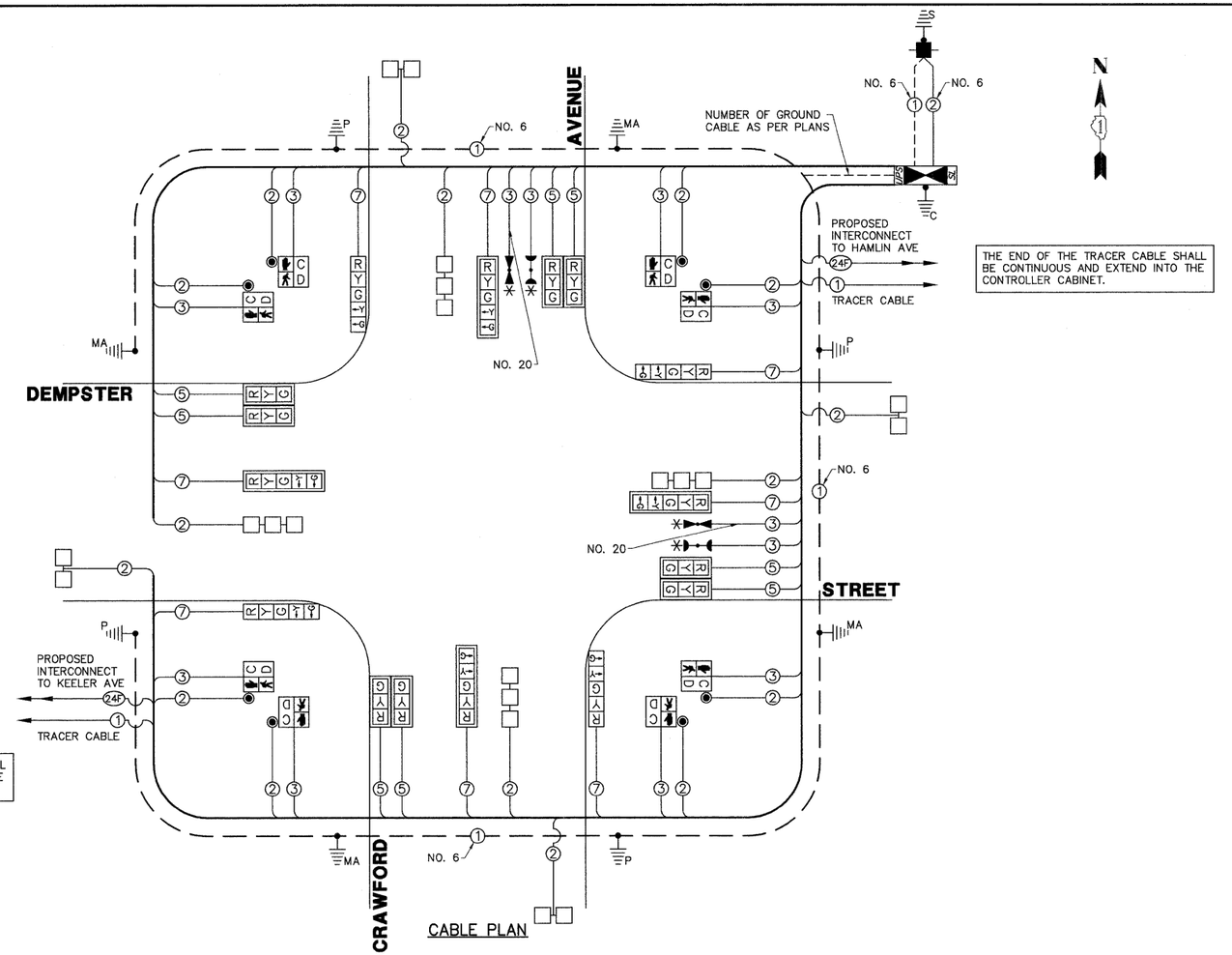
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	40.0
SIGNAL (GREEN)	16	135	15	0.25	96.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	–
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	616.2

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

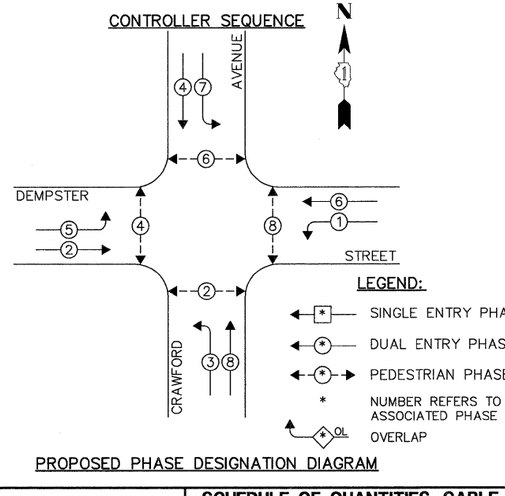
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

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

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

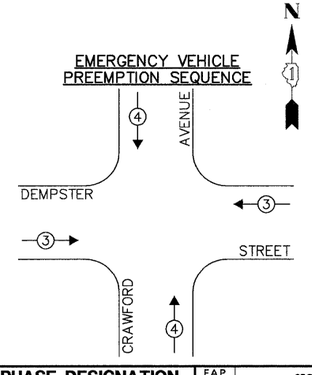


CABLE PLAN



LEGEND:
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

PROPOSED PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	↑↑

GHA #4085.869

FILE NAME = 4085.867-872-CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE DEMPSTER STREET AT CRAWFORD AVENUE**
		DRAWN - MEM	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	33
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

DEMPSTER STREET AT CRAWFORD AVENUE INTERSECTION LIGHTING

NO.	QUANT.	UNIT	
1.	65	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
2.	300	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
3.	396	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6
4.	60	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
5.	4	EACH	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT
6.	960	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
7.	2	EACH	REMOVE EXISTING HANDHOLE
8.	1	EACH	COMBINATION POLE LIGHTING CONTROLLER

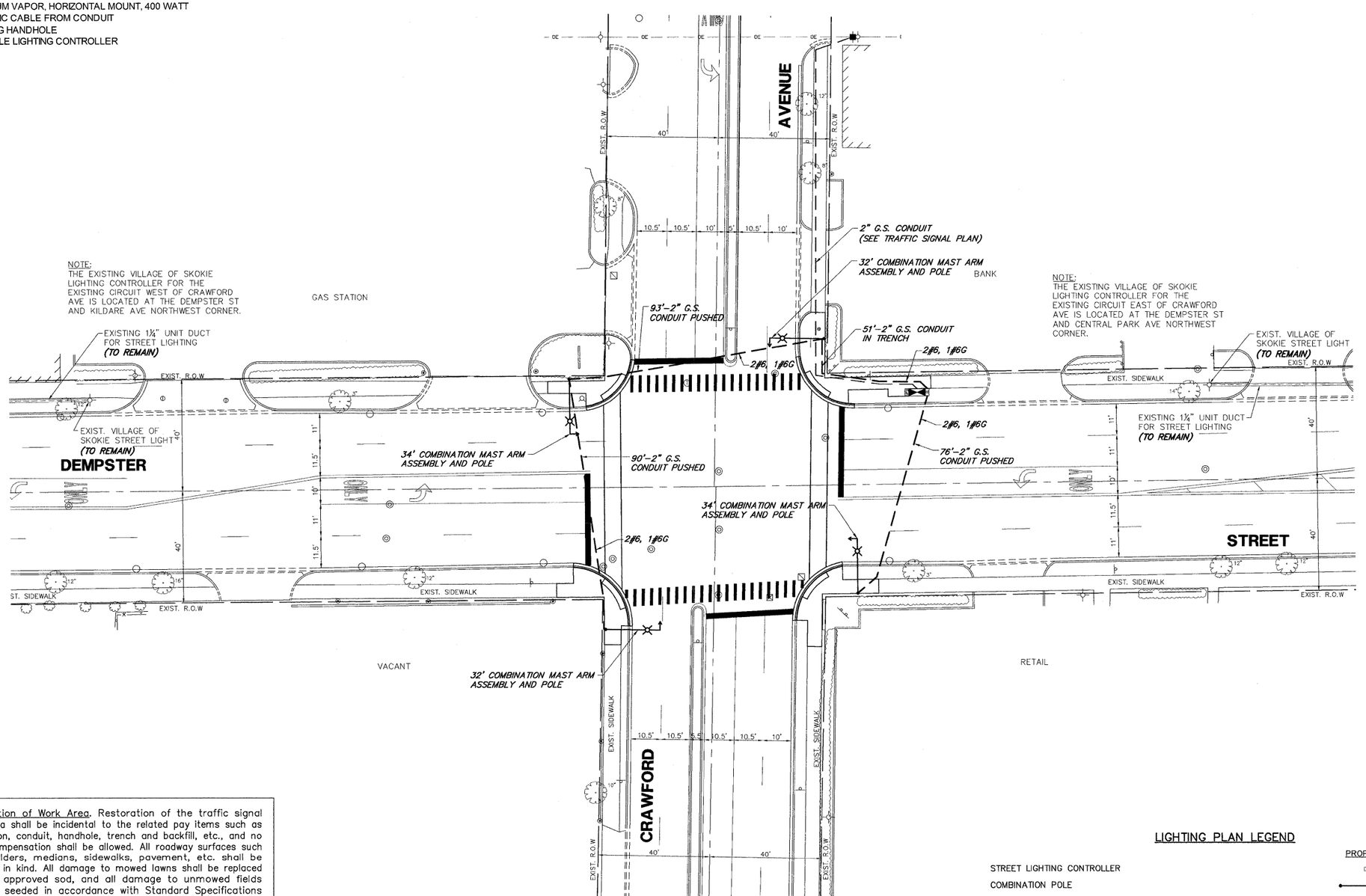
N

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.



Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

LIGHTING PLAN LEGEND

PROPOSED

STREET LIGHTING CONTROLLER

COMBINATION POLE

GHA #4085.869

FILE NAME = 4085.869-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

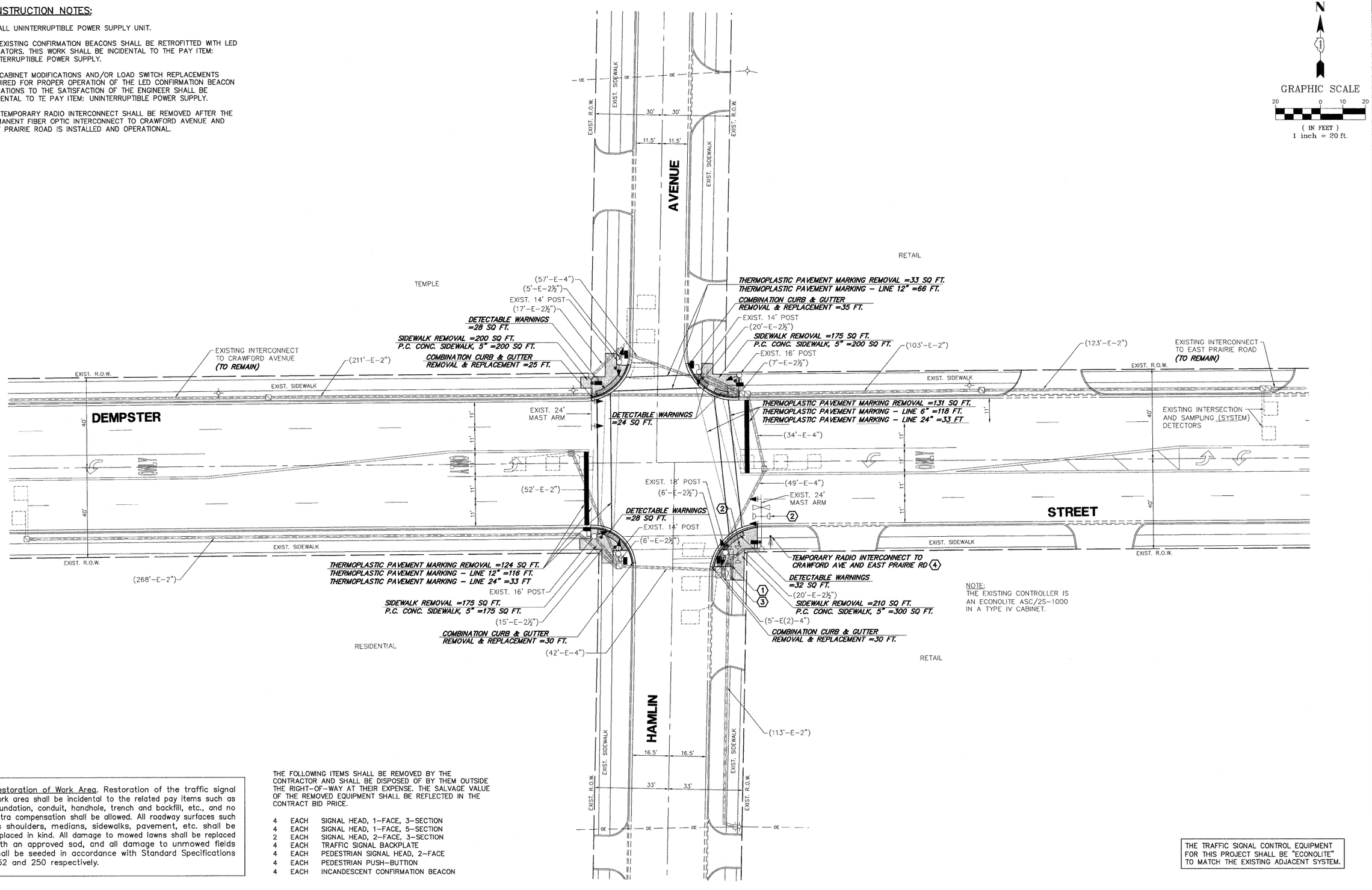
INTERSECTION LIGHTING PLAN
DEMPSTER STREET AT CRAWFORD AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	34
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES:

1. INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT.
2. ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH LED INDICATORS. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF THE LED CONFIRMATION BEACON INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO TE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
4. THE TEMPORARY RADIO INTERCONNECT SHALL BE REMOVED AFTER THE PERMANENT FIBER OPTIC INTERCONNECT TO CRAWFORD AVENUE AND EAST PRAIRIE ROAD IS INSTALLED AND OPERATIONAL.



NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSH-BUTTION
4	EACH	INCANDESCENT CONFIRMATION BEACON

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

GHA #4085.868

FILE NAME = Dempster @ Hamlin.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
DEMPSTER STREET AT HAMLIN AVENUE

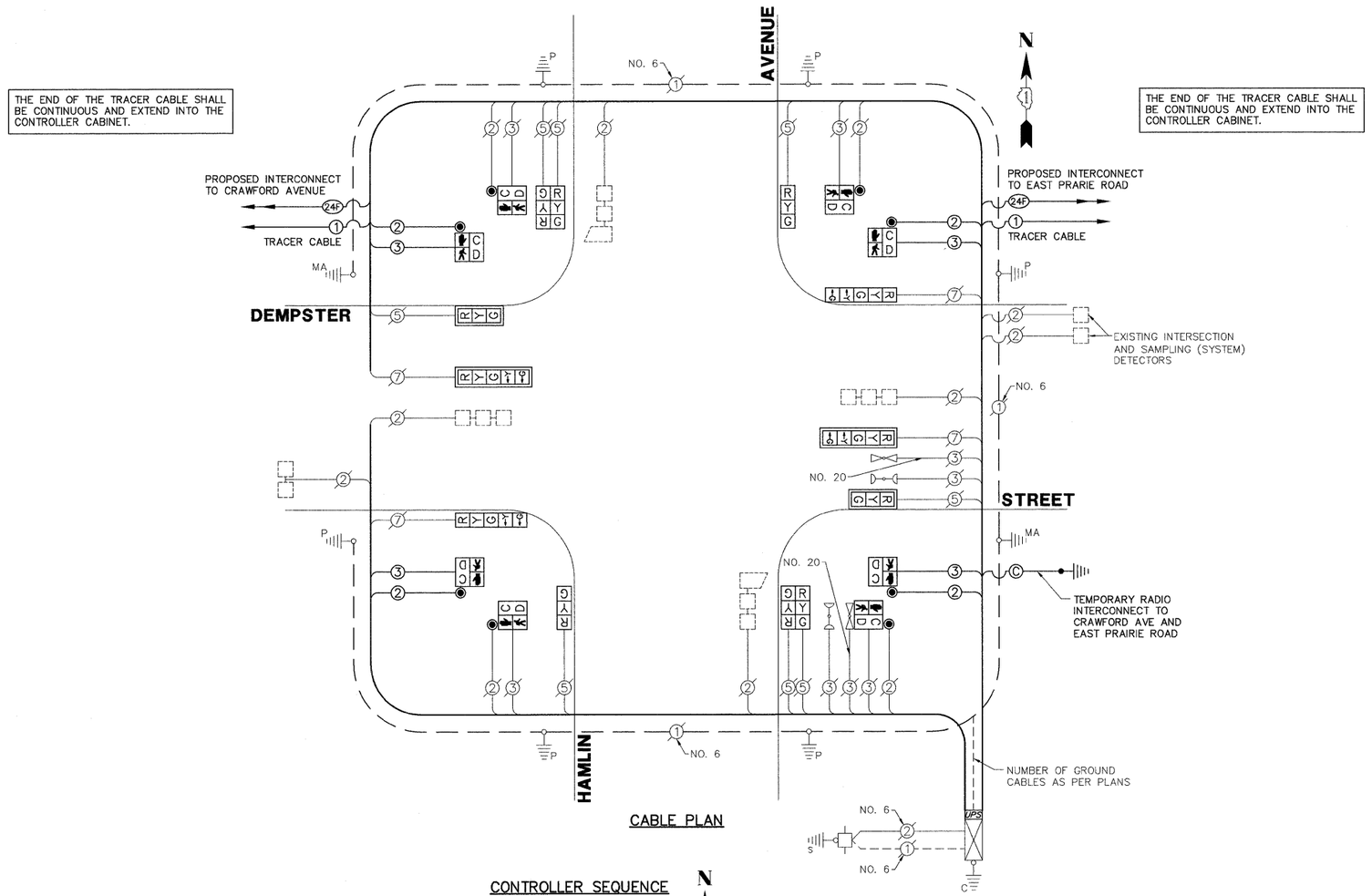
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

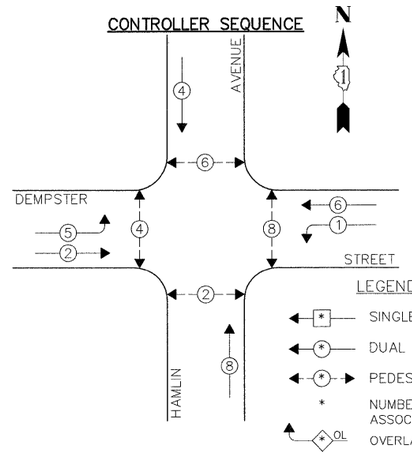
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	35
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

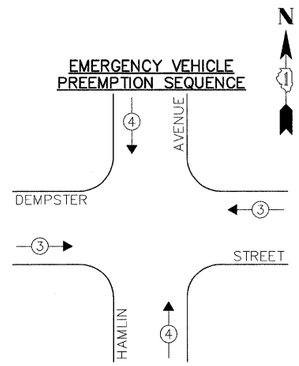
SCHEDULE OF QUANTITIES

DEMPSTER STREET AT HAMLIN AVENUE

NO.	QUANT.	UNIT	
1.	4	CU YD	EARTH EXCAVATION
2.	15	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
3.	875	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
4.	104	SQ FT	DETECTABLE WARNINGS
5.	760	SQ FT	SIDEWALK REMOVAL
6.	120	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
7.	0.05	L SUM	MOBILIZATION
8.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
9.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
10.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
11.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
12.	300	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
13.	66	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
14.	288	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
15.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
16.	473	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
17.	509	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
18.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
19.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
20.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
21.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
22.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
23.	8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
24.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
25.	8	EACH	PEDESTRIAN PUSH-BUTTON
26.	487	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
27.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
28.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY







EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

EXISTING 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 L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	–	–	100	1.00	–
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	456.6

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816–5465
COMPANY: COM–ED

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

GHA #4085.868

FILE NAME = 4085.867–872–CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED – JRD	REVISED –
		DRAWN – MEM	REVISED –
	PLOT SCALE = 1" = .0833'	CHECKED – KLB	REVISED –
	PLOT DATE = 10/29/2010	DATE – 10/29/2010	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
DEMPSTER STREET AT HAMLIN AVENUE

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

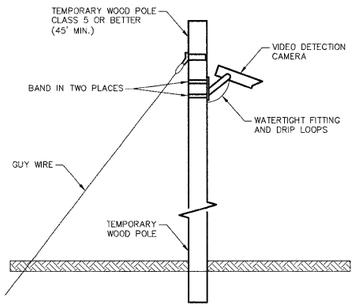
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	36
		CONTRACT #:	60K24	
		ILLINOIS FED. AID PROJECT		

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 CONTROLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPOCESSOR 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 CONTROLLER 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 TRAFFIS 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 THE 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 RESPSONSIBLE FOR THE CAMERAS.

N

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.



TEMPORARY VIDEO DETECTION MOUNTING DETAIL

(NOT TO SCALE)

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

1	EACH	CONTROLLER AND CABINET (COMMPLETE)
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
2	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
6	EACH	PEDESTRIAN PUSH-BUTTON
2	EACH	ALUMINUM COMBINATION MAST ARM POLE
6	EACH	TRAFFIC SIGNAL POST
1	EACH	SERVICE INSTALLATION

CONSTRUCTION NOTES:

① THE TEMPORARY RADIO INTERCONNECT SHALL BE REMOVED AFTER THE PERMANENT FIBER OPTIC INTERCONNECT TO HAMLIN AVENUE AND ST. LOUIS AVENUE/LINCOLNWOOD DRIVE IS INSTALLED AND OPERATIONAL.

② THE CONTRACTOR SHALL REMOVE THE EXISTING WIRING THAT SERVICES THE EXISTING STREET LIGHT ON THE EXISTING COMBINATION MAST ARM ASSEMBLY TO THE EXISTING LIGHT POLE THAT REMAINS.

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

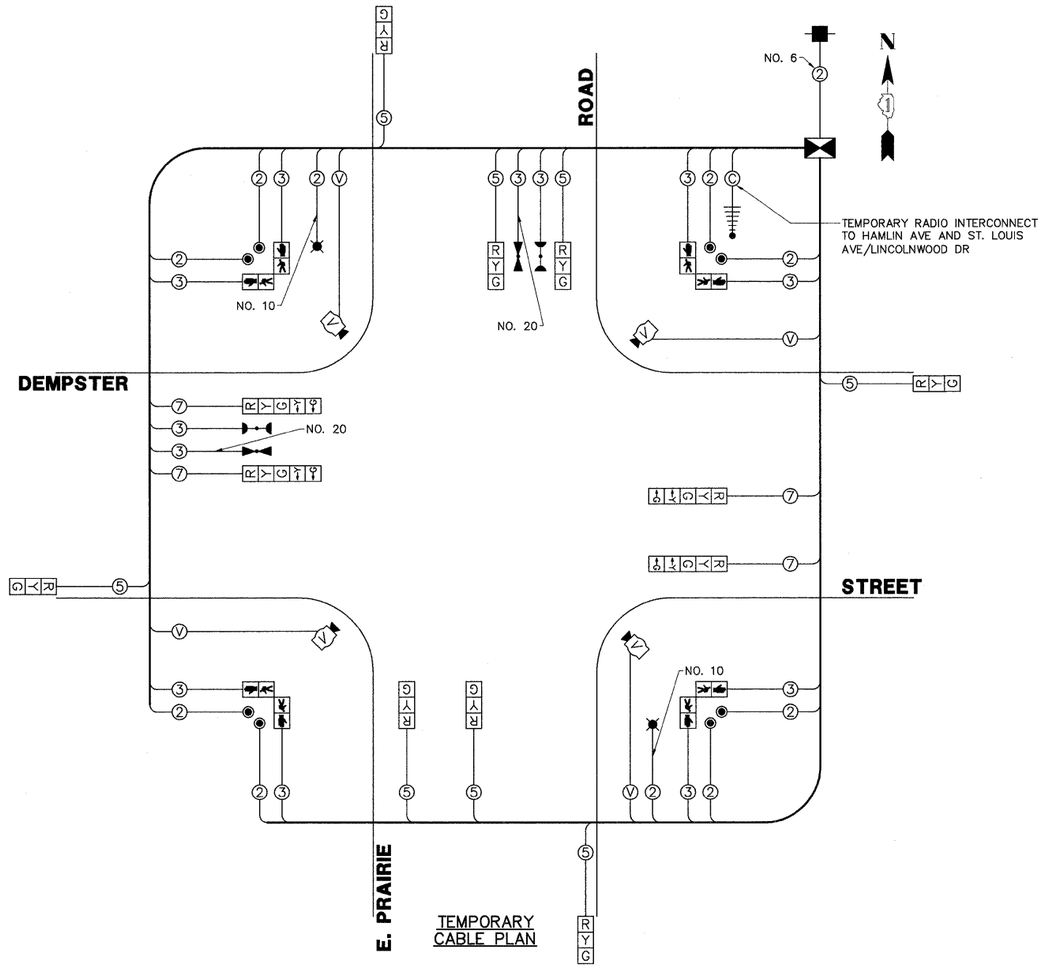
TRAFFIC SIGNAL LEGEND

	EXISTING
COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT	
SIDEWALK REMOVAL	

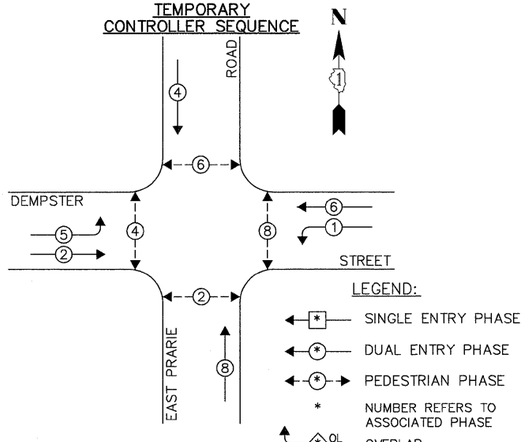
GHA #4085.870

FILE NAME = 4085.870-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT DEMPSTER STREET AT EAST PRAIRIE ROAD**				
		DRAWN - ZCW	REVISED -						
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20'	SHEET NO. OF SHEETS	STA.	TO STA.	
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -						

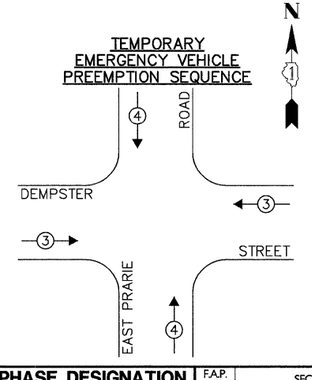
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	37
		CONTRACT #:	60K24	
		ILLINOIS FED. AID PROJECT		



TEMPORARY CABLE PLAN



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	— —	↓ ↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS		WATTAGE			TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	2	150	250	0.50	150
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	681.6

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

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

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

GHA #4085.870

FILE NAME = 4085.867-872-CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

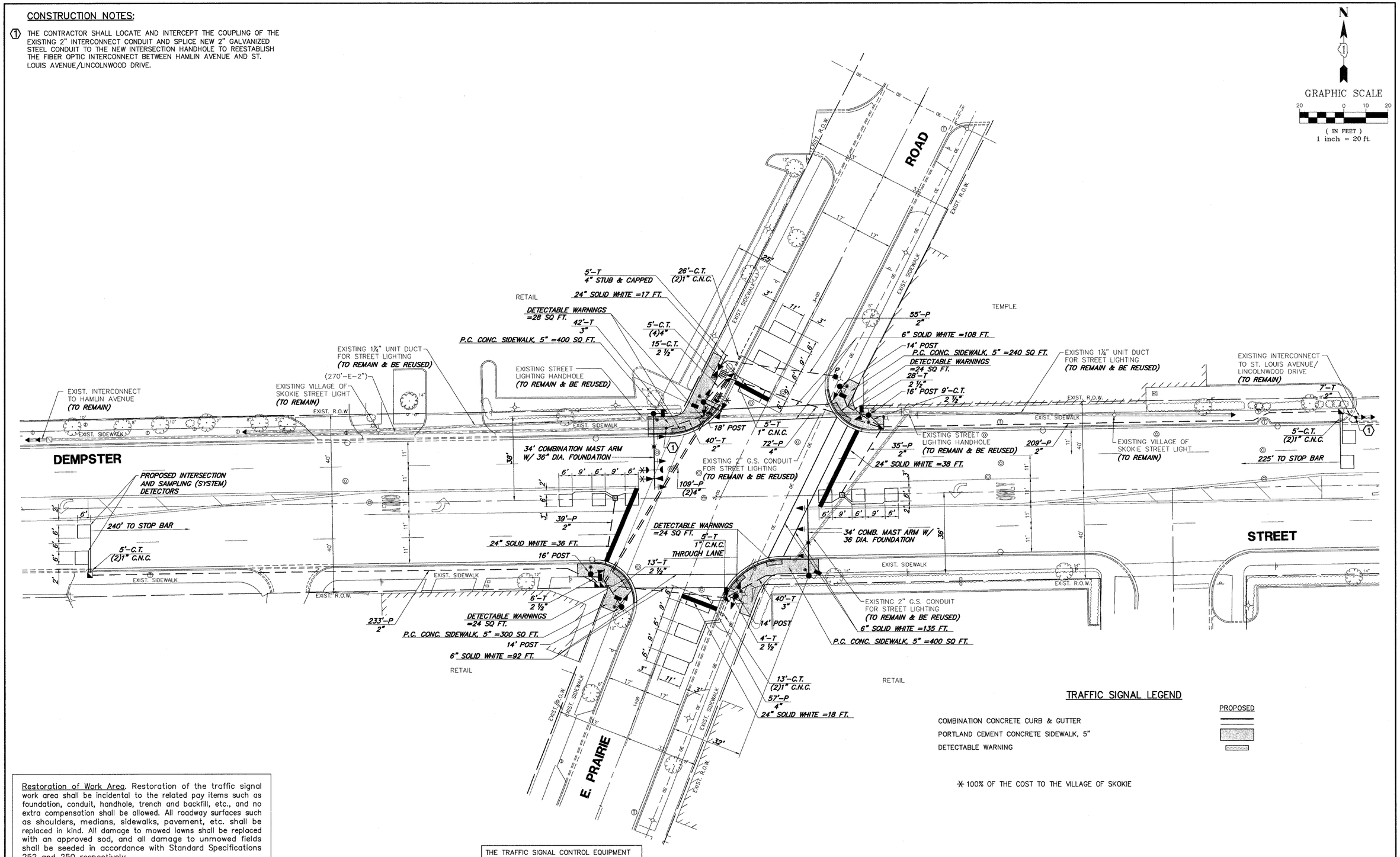
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, & TEMPORARY VEHICLE PREEMPTION SEQUENCE
DEMPSTER STREET AT EAST PRAIRIE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	38
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES:

(1) THE CONTRACTOR SHALL LOCATE AND INTERCEPT THE COUPLING OF THE EXISTING 2" INTERCONNECT CONDUIT AND SPLICE NEW 2" GALVANIZED STEEL CONDUIT TO THE NEW INTERSECTION HANDHOLE TO REESTABLISH THE FIBER OPTIC INTERCONNECT BETWEEN HAMLIN AVENUE AND ST. LOUIS AVENUE/LINCOLNWOOD DRIVE.



TRAFFIC SIGNAL LEGEND

	PROPOSED
COMBINATION CONCRETE CURB & GUTTER	
PORTLAND CEMENT CONCRETE SIDEWALK, 5"	
DETECTABLE WARNING	

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

GHA #4085.870

FILE NAME = 4085.870-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
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	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
DEMPSTER STREET AT EAST PRAIRIE ROAD

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

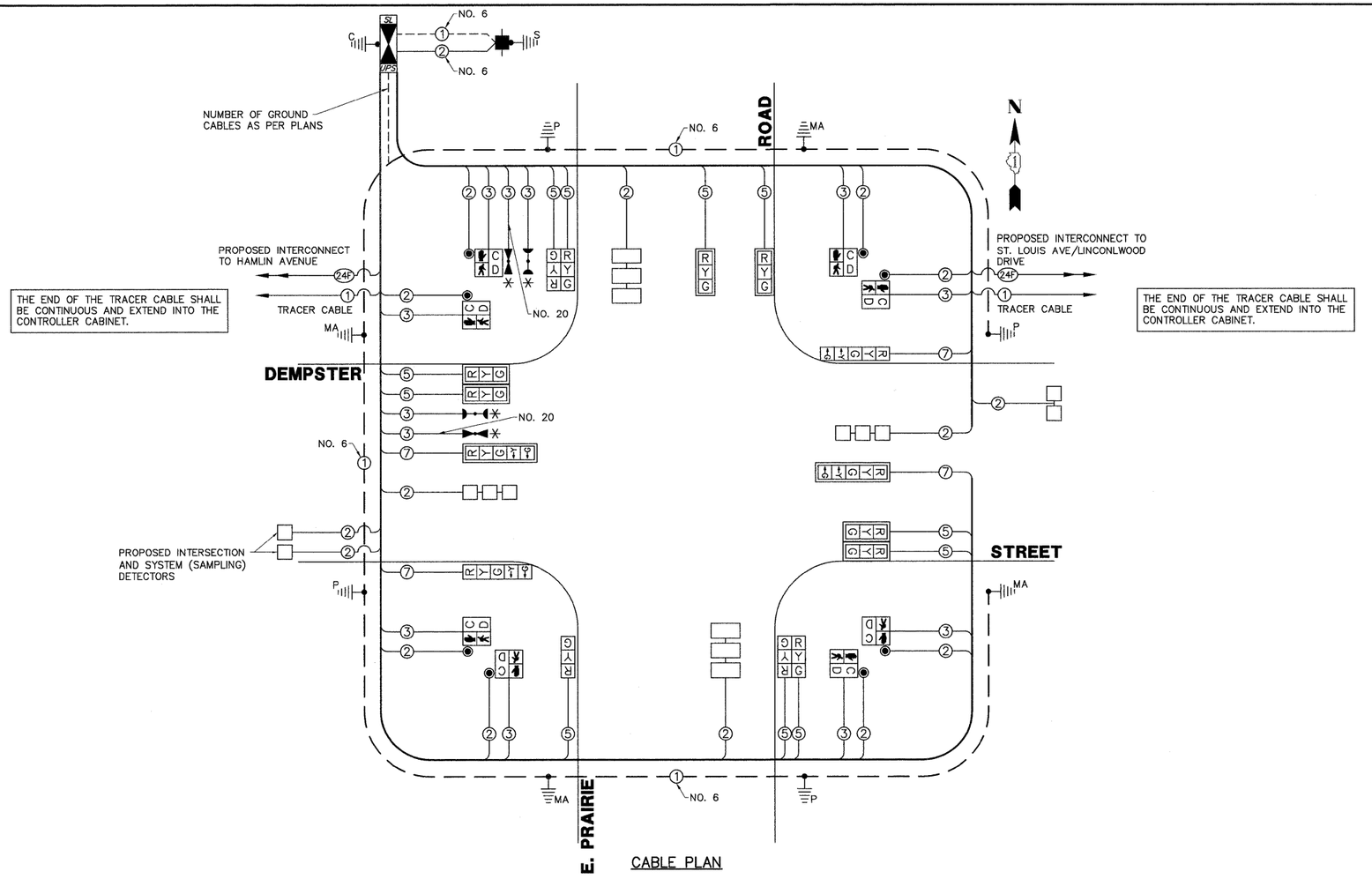
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	39
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

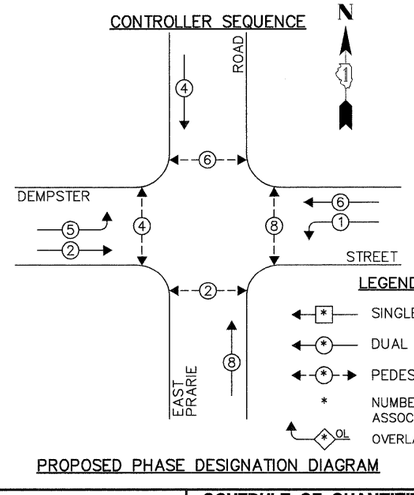
DEMPSTER STREET AT EAST PRAIRIE AVENUE

NO.	QUANT.	UNIT	
1.	6	CU YD	EARTH EXCAVATION
2.	18	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
3.	1,340	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
4.	100	SQ FT	DETECTABLE WARNINGS
5.	1,145	SQ FT	SIDEWALK REMOVAL
6.	140	FOOT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
7.	2.00	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
8.	0.15	L SUM	MOBILIZATION
9.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
10.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
11.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
12.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
13.	27.50	SQ FT	SIGN PANEL - TYPE 1
17.	335	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
18.	109	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
19.	402	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
20.	75	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
21.	82	FOOT	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL
22.	25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
23.	571	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
24.	347	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
25.	4	EACH	HANDHOLE
26.	2	EACH	HEAVY-DUTY HANDHOLE
27.	2	EACH	DOUBLE HANDHOLE
28.	143	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
29.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
30.	1	EACH	TRANSCEIVER - FIBER OPTIC
31.	1,171	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
32.	1,419	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
33.	1,742	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
34.	742	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
35.	1,649	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
36.	77	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
37.	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
38.	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
39.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
40.	2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.
41.	24	FOOT	CONCRETE FOUNDATION, TYPE A
42.	4	FOOT	CONCRETE FOUNDATION, TYPE C
43.	22	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
44.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
45.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
46.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
47.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
48.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
49.	8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
50.	6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
51.	7	EACH	INDUCTIVE LOOP DETECTOR
52.	582	FOOT	DETECTOR LOOP, TYPE I
✳53.	2	EACH	LIGHT DETECTOR
✳54.	1	EACH	LIGHT DETECTOR AMPLIFIER
55.	8	EACH	PEDESTRIAN PUSH-BUTTON
56.	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
57.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
58.	8	EACH	REMOVE EXISTING HANDHOLE
59.	9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
60.	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
61.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
62.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
63.	556	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
✳64.	176	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

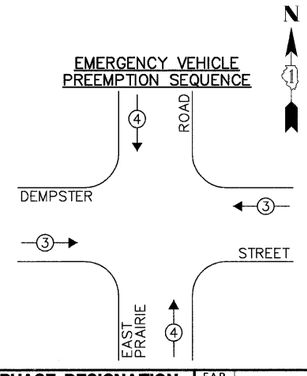
✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE



CABLE PLAN



PROPOSED PHASE DESIGNATION DIAGRAM



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	35.0
SIGNAL (GREEN)	14	135	15	0.25	84.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	1	–	25	1.00	25.0
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	572.6

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

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

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

GHA #4085.870

FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
4085.867-872-CABLE.dwg		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
DEMPSTER STREET AT EAST PRAIRIE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	40
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

DEMPSTER STREET AT EAST PRAIRIE AVENUE INTERSECTION LIGHTING

NO.	QUANT.	UNIT	
✳ 1.	206	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
2.	299	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
3.	2	EACH	HANDHOLE
4.	920	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6
✳ 5.	226	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
6.	4	EACH	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT
✳ 7.	2	EACH	LIGHT POLE, ALUMINUM, 35 FT. M.H., 8 FT. MAST ARM
✳ 8.	11	FOOT	LIGHT POLE FOUNDATION, 24" DIAMETER
✳ 9.	1	EACH	DRILL EXISTING HANDHOLE
✳ 10.	395	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
11.	1	EACH	COMBINATION POLE LIGHTING CONTROLLER

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

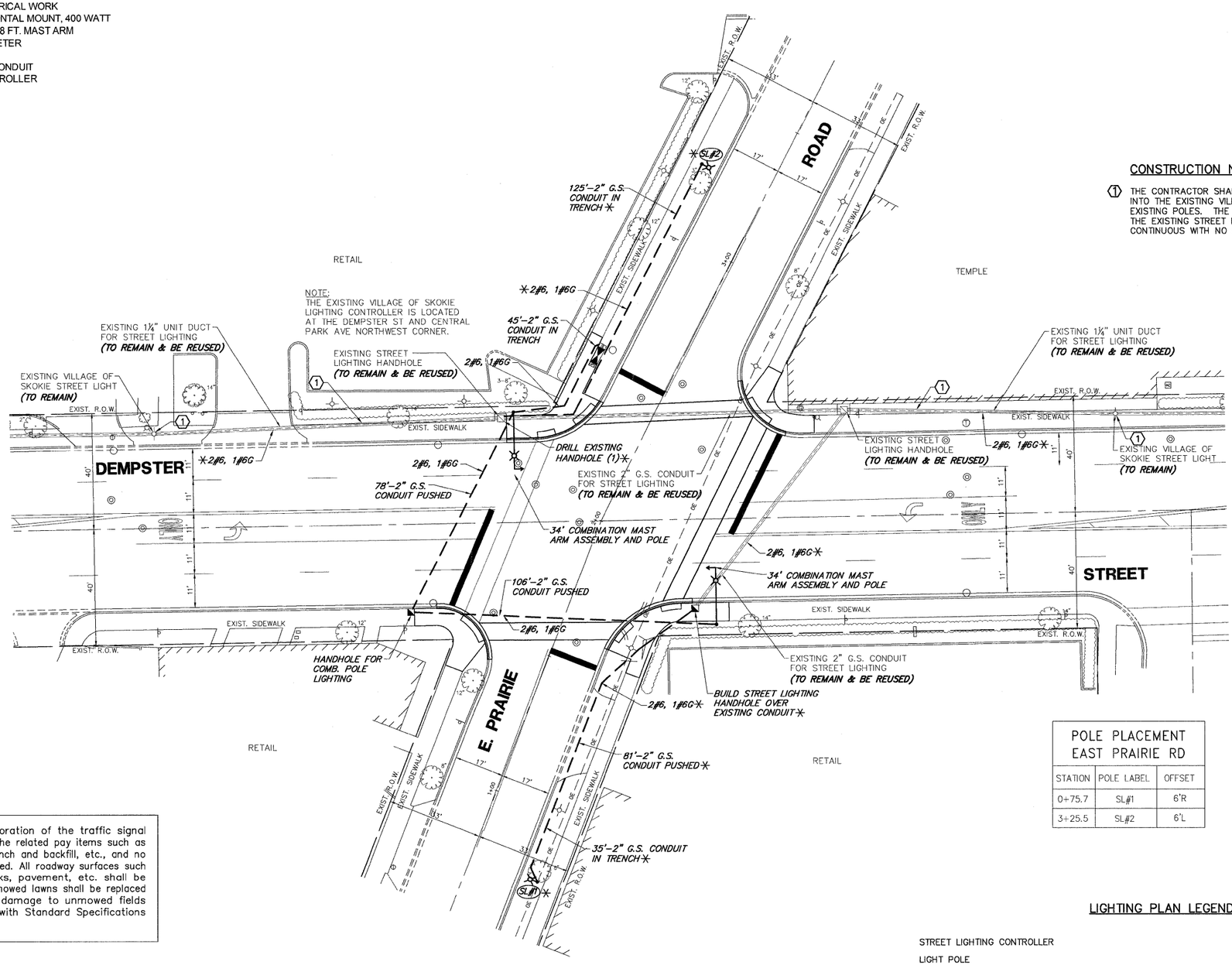
N

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.



CONSTRUCTION NOTES:

(1) THE CONTRACTOR SHALL SPLICE NEW WIRES SERVICING SL#1 OR SL#2 INTO THE EXISTING VILLAGE OF SKOKIE STREET LIGHT CIRCUIT IN EXISTING POLES. THE CONTRACTOR SHALL INSTALL NEW WIRING FROM THE EXISTING STREET LIGHT TO SL#1 OR SL#2. THE WIRING SHALL BE CONTINUOUS WITH NO SPLICING ALLOWED. ✳

POLE PLACEMENT EAST PRAIRIE RD		
STATION	POLE LABEL	OFFSET
0+75.7	SL#1	6'R
3+25.5	SL#2	6'L

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

LIGHTING PLAN LEGEND

PROPOSED

STREET LIGHTING CONTROLLER

LIGHT POLE

COMBINATION POLE

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

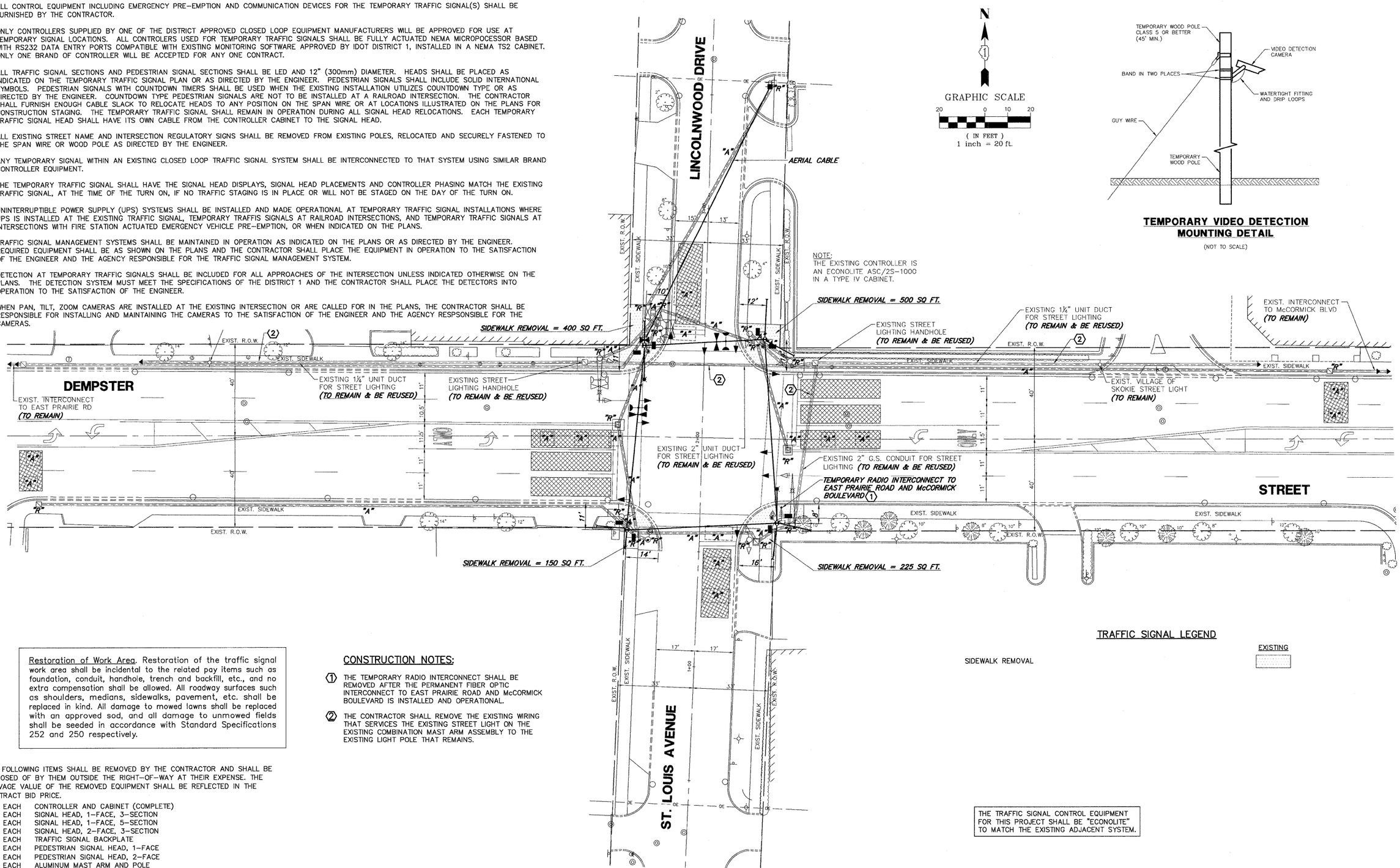
GHA #4085.870

FILE NAME = 4085.870-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERSECTION LIGHTING PLAN DEMPSTER STREET AT EAST PRAIRIE ROAD**
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	41
		CONTRACT #: 60K24		
	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 CONTROLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPOCESSOR 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 CONTROLLER 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 TRAFFIS 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 THE 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 RESPSONSIBLE FOR THE CAMERAS.



TEMPORARY VIDEO DETECTION MOUNTING DETAIL

(NOT TO SCALE)

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

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

1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
2	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
3	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
2	EACH	ALUMINUM MAST ARM AND POLE
6	EACH	TRAFFIC SIGNAL POST
1	EACH	SERVICE INSTALLATION

CONSTRUCTION NOTES:

(1) THE TEMPORARY RADIO INTERCONNECT SHALL BE REMOVED AFTER THE PERMANENT FIBER OPTIC INTERCONNECT TO EAST PRAIRIE ROAD AND McCORMICK BOULEVARD IS INSTALLED AND OPERATIONAL.

(2) THE CONTRACTOR SHALL REMOVE THE EXISTING WIRING THAT SERVICES THE EXISTING STREET LIGHT ON THE EXISTING COMBINATION MAST ARM ASSEMBLY TO THE EXISTING LIGHT POLE THAT REMAINS.

TRAFFIC SIGNAL LEGEND

EXISTING

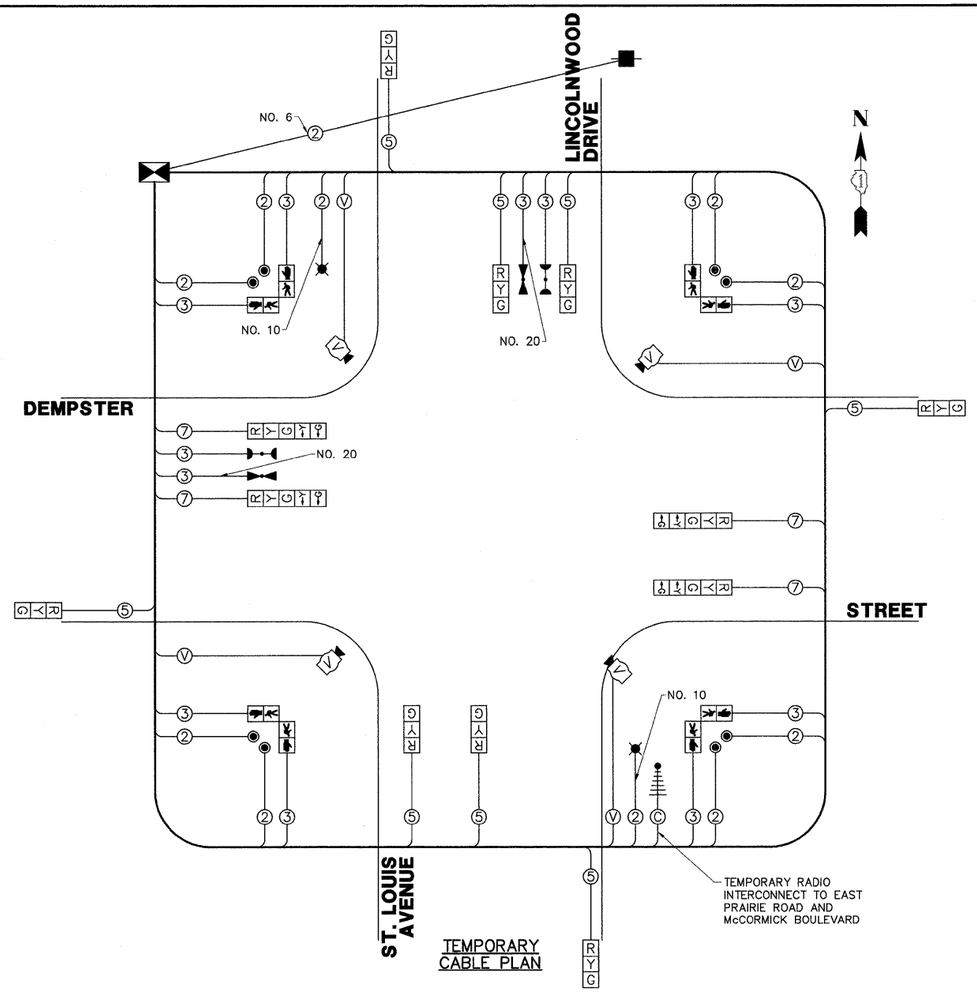
SIDEWALK REMOVAL

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

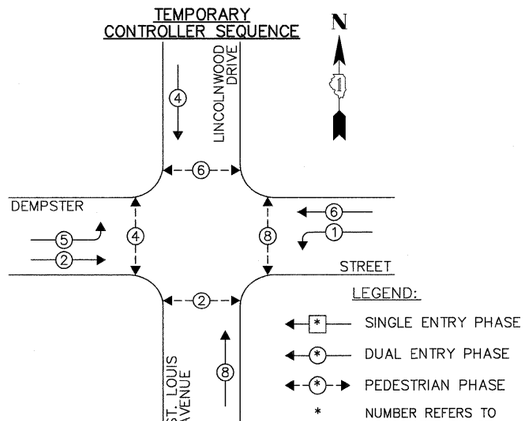
GHA #4085.871

FILE NAME = 4085.871-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT DEMPSTER ST AT ST. LOUIS AV/LINCOLNWOOD DR**			
		DRAWN - ZCW	REVISED -					
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.	
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -					

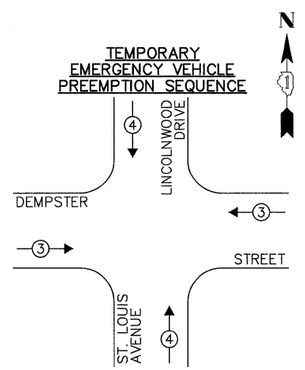
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	42
		CONTRACT #:	60K24	
	ILLINOIS FED. AID PROJECT			



TEMPORARY CABLE PLAN



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	— —	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS		WATTAGE			TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	62.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	2	150	250	0.50	150
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	681.6

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816–5465
COMPANY: COM–ED

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

GHA #4085.871

FILE NAME = 4085.867–872–CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, & TEMPORARY VEHICLE PREEMPTION SEQUENCE
DEMPSTER ST AT ST. LOUIS AVE/LINCOLNWOOD DR

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	43
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES:

① THE CONTRACTOR SHALL LOCATE AND INTERCEPT THE COUPLING OF THE EXISTING 2" INTERCONNECT CONDUIT AND Ssplice NEW 2" GALVANIZED STEEL CONDUIT TO THE NEW INTERSECTION HANDHOLE TO REESTABLISH THE FIBER OPTIC INTERCONNECT BETWEEN ST. LOUIS AVENUE/LINCOLNWOOD DRIVE AND EAST PRAIRIE ROAD.

N

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

LINCOLNWOOD DR

DEMPSTER

STREET

ST. LOUIS AVENUE

EXIST. VILLAGE OF SKOKIE STREET LIGHT (TO REMAIN)
EXIST. R.O.W.
EXIST. SIDEWALK
EXISTING 1¼" UNIT DUCT FOR STREET LIGHTING (TO REMAIN & BE REUSED)
EXISTING STREET LIGHTING HANDHOLE (TO REMAIN & BE REUSED)
EXIST. INTERCONNECT TO EAST PRAIRIE RD (TO REMAIN)
250' TO STOP BAR
5'-C.T. (2)1" C.N.C.
250'-P 2"
25'-C.T. (2)1" C.N.C.
6'-T 1" C.N.C.
P.C. CONC. SIDEWALK, 5" = 450 SQ FT.
5'-T 2" STUB & CAPPED
5'-C.T. (4) 4"
18' POST
7'-C.T. 2 ½"
THROUGH LANE
34' COMB. MAST ARM W/ 36" DIA. FOUNDATION
DETECTABLE WARNINGS = 28 SQ FT.
54'-P 2"
81'-P (2) 4"
DETECTABLE WARNINGS = 24 SQ FT.
57'-P 4"
14' POST
5'-T 1" C.N.C.
8'-C.T. 2 ½"
16' POST
17'-P 2 ½"
P.C. CONC. SIDEWALK, 5" = 170 SQ FT.
14' POST
119'-P 2"
14' POST
P.C. CONC. SIDEWALK, 5" = 450 SQ FT.
DETECTABLE WARNINGS = 24 SQ FT.
16' POST
9'-C.T. 2 ½"
66'-P 4"
24'-T 2 ½"
23'-T 3" 23'-T 2"
31'-P 2"
EXISTING 2" UNIT DUCT FOR STREET LIGHTING (TO REMAIN & BE REUSED)
EXISTING 2" G.S. CONDUIT FOR STREET LIGHTING (TO REMAIN & BE REUSED)
34' COMB. MAST ARM W/ 36" DIA. FOUNDATION
9'-T 2"
P.C. CONC. SIDEWALK, 5" = 250 SQ FT.
20'-T 3"
7'-C.T. 2 ½"
14'-C.T. (2)1" C.N.C.
EXISTING 1¼" UNIT DUCT FOR STREET LIGHTING (TO REMAIN & BE REUSED)
249'-P 2"
EXIST. INTERCONNECT TO McCORMICK BLVD (TO REMAIN)
5'-C.T. (2) 1" C.N.C.
250' TO STOP BAR

TRAFFIC SIGNAL LEGEND

	PROPOSED
PORTLAND CEMENT CONCRETE SIDEWALK, 5"	
DETECTABLE WARNING	

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

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

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

GHA #4085.871

FILE NAME = 4085.871-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
DEMPSTER ST AT ST. LOUIS AV/LINCOLNWOOD DR

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

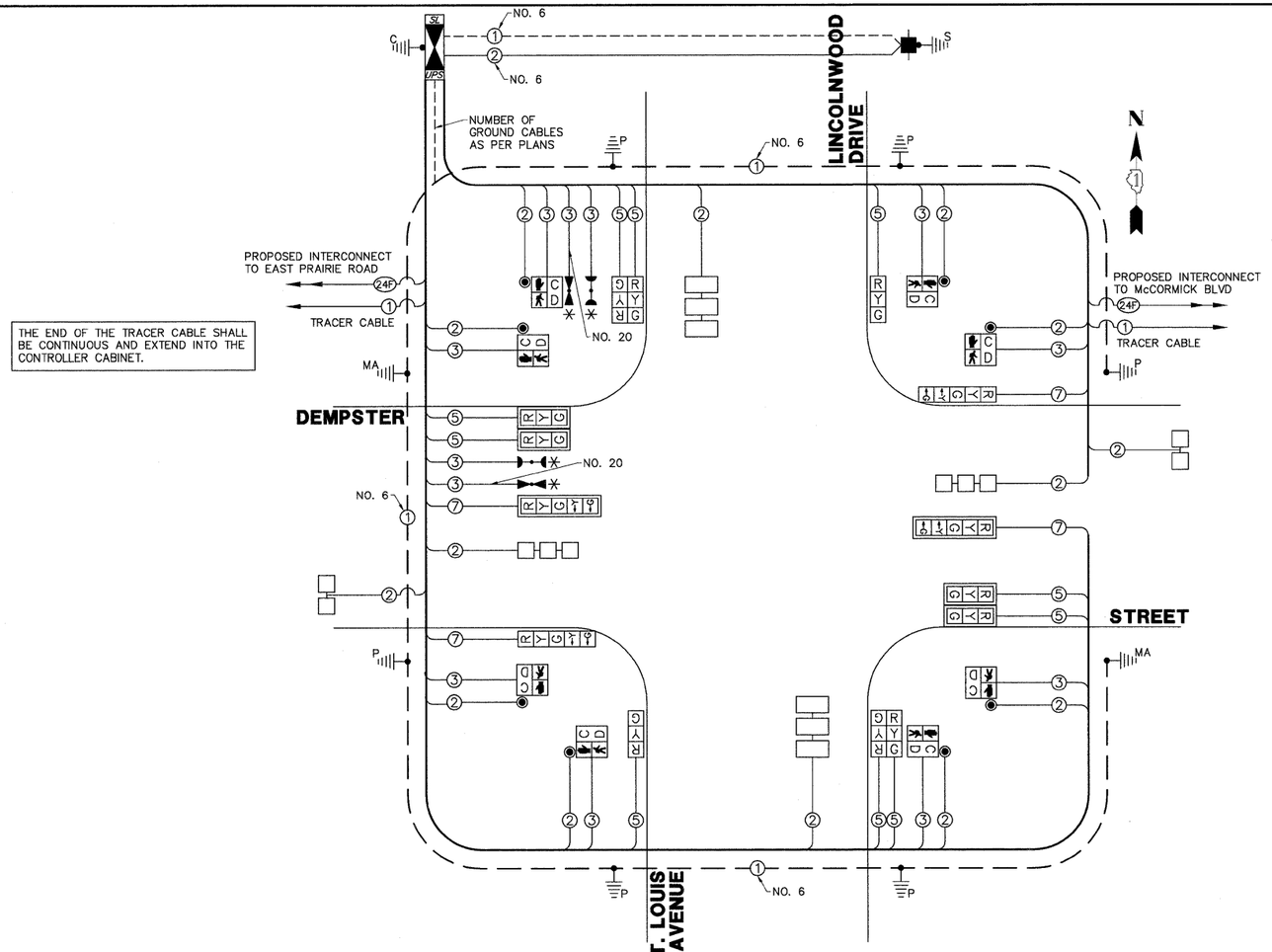
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	44
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

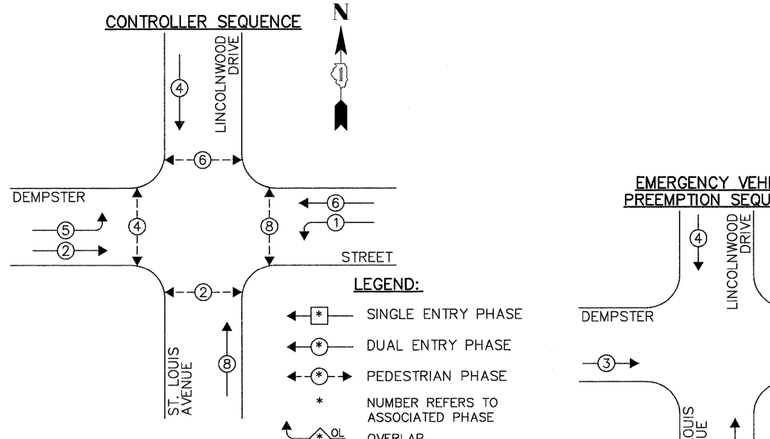
DEMPSTER STREET AT ST. LOUIS AVENUE/LINCOLNWOOD DRIVE

NO.	QUANT.	UNIT	
1.	5	CU YD	EARTH EXCAVATION
2.	15	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
3.	1,370	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
4.	104	SQ FT	DETECTABLE WARNINGS
5.	1,275	SQ FT	SIDEWALK REMOVAL
6.	2.00	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
7.	0.15	L SUM	MOBILIZATION
8.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
9.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
10.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
11.	0.15	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
12.	16.50	SQ FT	SIGN PANEL - TYPE 1
13.	30.00	SQ FT	SIGN PANEL - TYPE 2
14.	23	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
15.	47	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
16.	43	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
17.	25	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
18.	703	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
19.	285	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
20.	4	EACH	HANDHOLE
21.	2	EACH	HEAVY-DUTY HANDHOLE
22.	2	EACH	DOUBLE HANDHOLE
23.	94	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
24.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
25.	1	EACH	TRANSCEIVER - FIBER OPTIC
26.	1,006	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
27.	1,228	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
28.	1,510	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
29.	623	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
30.	1,143	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
31.	141	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
32.	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
33.	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
34.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
35.	2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.
36.	24	FOOT	CONCRETE FOUNDATION, TYPE A
37.	4	FOOT	CONCRETE FOUNDATION, TYPE C
38.	22	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
39.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
40.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
41.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
42.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
43.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
44.	8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
45.	6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
46.	6	EACH	INDUCTIVE LOOP DETECTOR
47.	550	FOOT	DETECTOR LOOP, TYPE I
✳48.	2	EACH	LIGHT DETECTOR
✳49.	1	EACH	LIGHT DETECTOR AMPLIFIER
50.	8	EACH	PEDESTRIAN PUSH-BUTTON
51.	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
52.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
53.	8	EACH	REMOVE EXISTING HANDHOLE
54.	9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
55.	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
56.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
57.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
58.	526	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
✳59.	150	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE



CABLE PLAN



PROPOSED PHASE DESIGNATION DIAGRAM

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	35.0
SIGNAL (GREEN)	14	135	15	0.25	84.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	--	100	1.00	100.0
LUMINAIRE	--	--	250	0.50	--
L.E.D. ST. NAME SIGN	--	--	64	0.50	--
VIDEO SYSTEM	--	--	150	1.00	--
BATTERY BACKUP	1	--	25	1.00	25.0
ILLUMINATED SIGN	--	--	25	0.05	--
				TOTAL =	572.6

ENERGY COSTS – BILLED TO: IDOT – DISTRICT 1
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196
ENERGY SUPPLY – CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COM-ED

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

GHA #4085.871

FILE NAME = 4085.867-872-CABLE.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - MEM	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
DEMPSTER STREET AT ST. LOUIS AVENUE/LINCOLNWOOD DRIVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	45
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

DEMPSTER STREET AT ST. LOUIS AVENUE/LINCOLNWOOD DRIVE INTERSECTION LIGHTING

NO.	QUANT.	UNIT	
✳ 1.	202	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
2.	192	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
3.	2	EACH	HANDHOLE
4.	870	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6
✳ 5.	192	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
6.	4	EACH	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT
✳ 7.	2	EACH	LIGHT POLE, ALUMINUM, 35 FT. M.H., 8 FT. MAST ARM
✳ 8.	11	FOOT	LIGHT POLE FOUNDATION, 24" DIAMETER
✳ 9.	1	EACH	DRILL EXISTING HANDHOLE
✳ 10.	500	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
11.	1	EACH	COMBINATION POLE LIGHTING CONTROLLER

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

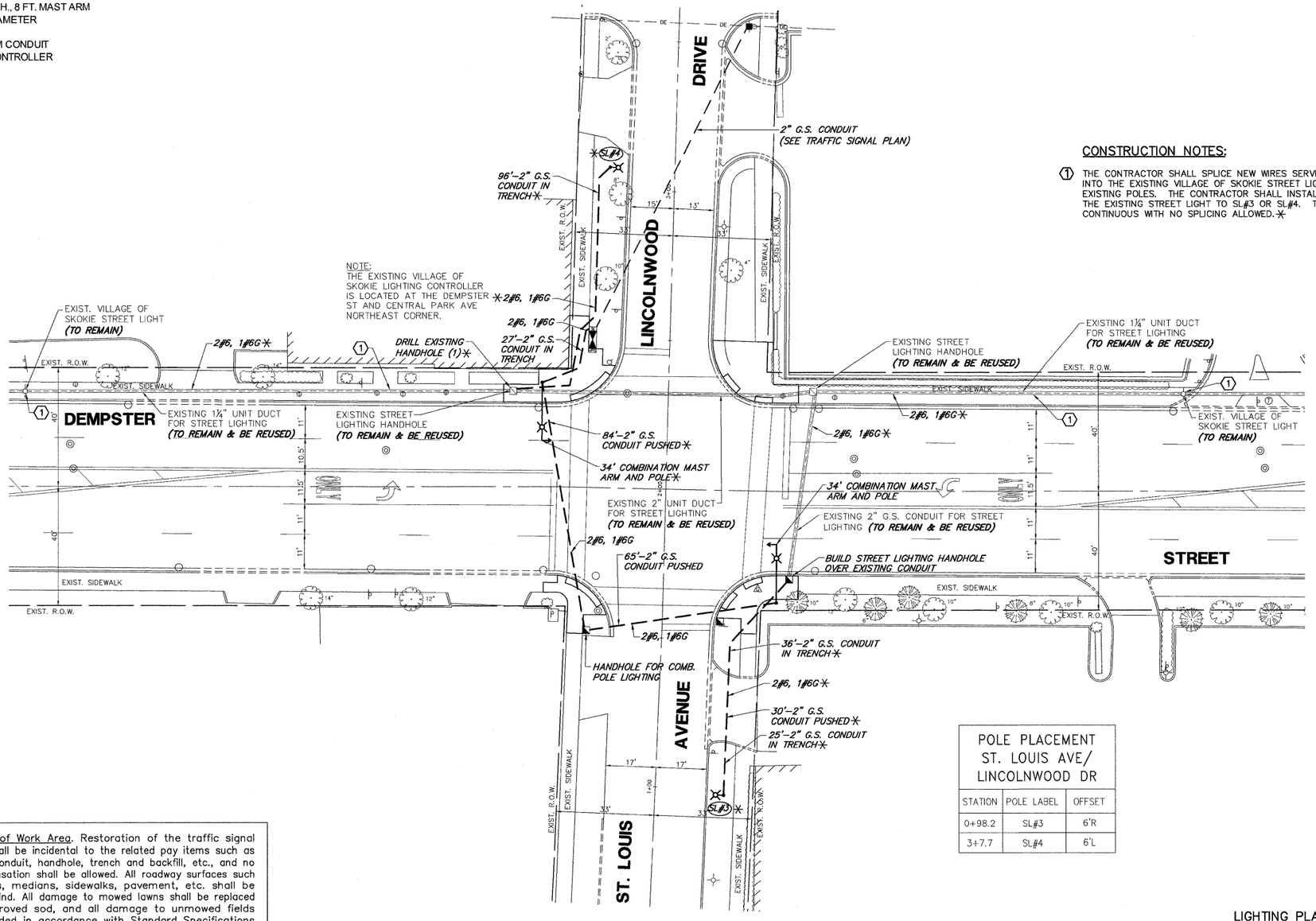
N

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.



CONSTRUCTION NOTES:

① THE CONTRACTOR SHALL SPLICE NEW WIRES SERVICING SL#3 OR SL#4 INTO THE EXISTING VILLAGE OF SKOKIE STREET LIGHT CIRCUIT IN EXISTING POLES. THE CONTRACTOR SHALL INSTALL NEW WIRING FROM THE EXISTING STREET LIGHT TO SL#3 OR SL#4. THE WIRING SHALL BE CONTINUOUS WITH NO SPLICING ALLOWED. ✳

POLE PLACEMENT ST. LOUIS AVE/ LINCOLNWOOD DR		
STATION	POLE LABEL	OFFSET
0+98.2	SL#3	6'R
3+7.7	SL#4	6'L

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

LIGHTING PLAN LEGEND

PROPOSED

STREET LIGHTING CONTROLLER

LIGHT POLE

COMBINATION POLE

✳ 100% OF THE COST TO THE VILLAGE OF SKOKIE

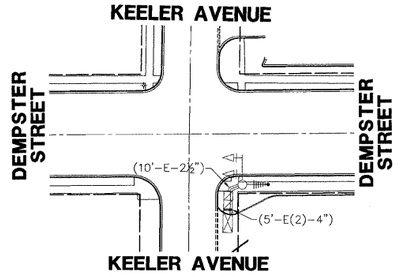
GHA #4085.871

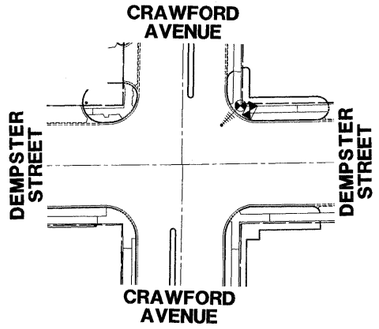
FILE NAME = 4085.871-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERSECTION LIGHTING PLAN DEMPSTER ST AT ST. LOUIS AV/LINCOLNWOOD DR**
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

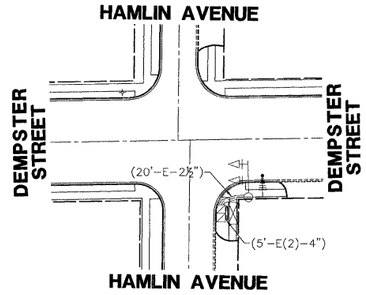
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	46
		CONTRACT #:	60K24	
	ILLINOIS | FED. AID PROJECT			

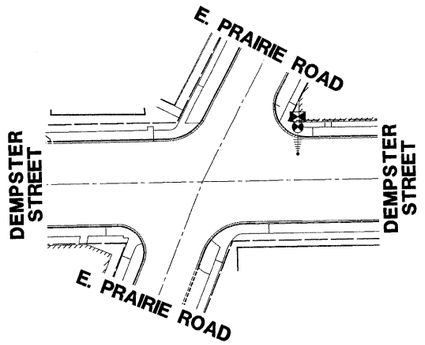
CONSTRUCTION NOTES:

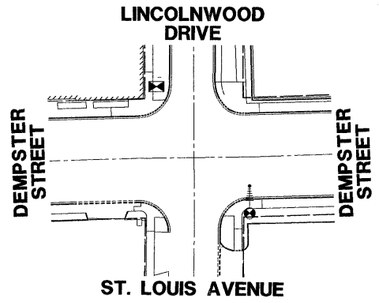
(1) THE TEMPORARY DISCONNECT OF THE EXISTING INTERCONNECT SYSTEM WILL BE COORDINATED WITH THE TEMPORARY TRAFFIC SIGNAL TURN-ON AT DEMPSTER STREET AND CRAWFORD AVENUE BY THE CONTRACTOR WITH THE IDOT MAINTENANCE CONTRACTOR. THE IDOT AREA TRAFFIC SIGNAL ENGINEER SHALL BE NOTIFIED 72 HOURS IN ADVANCE.

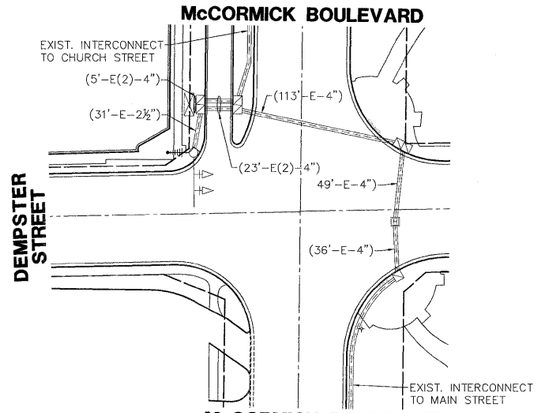


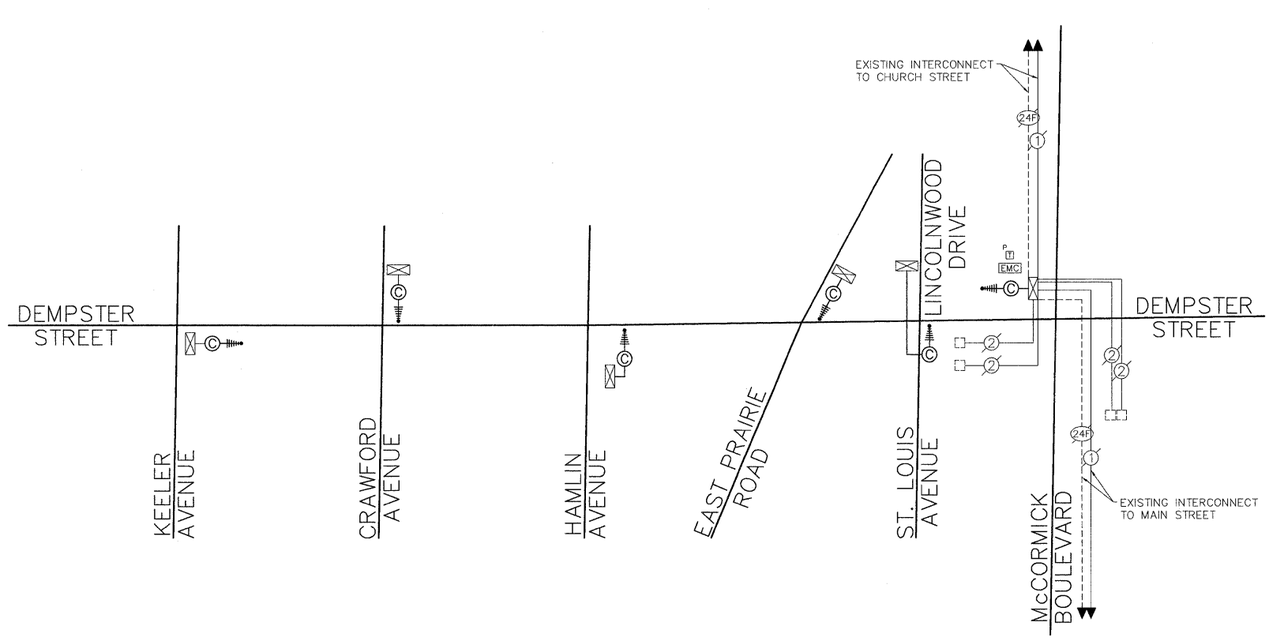












N

1

GRAPHIC SCALE

50 0 25 50

(IN FEET)

1 inch = 50 ft.

GHA #4085.868-87

FILE NAME = DEMPSTER INTERCONNECT.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

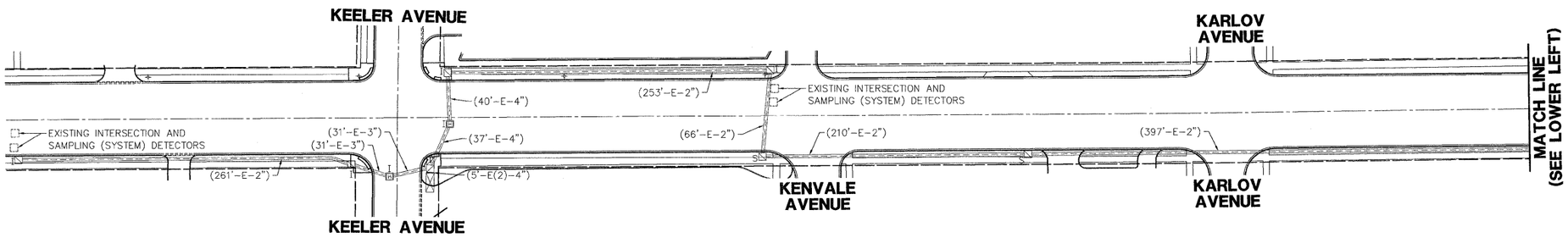
TEMPORARY INTERCONNECT PLAN AND SCHEMATIC
DEMPSTER ST FROM KEELER AV TO McCORMICK BLVD

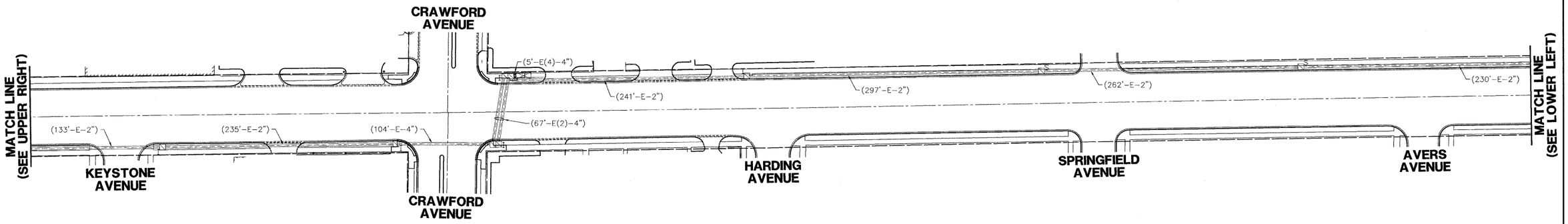
SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

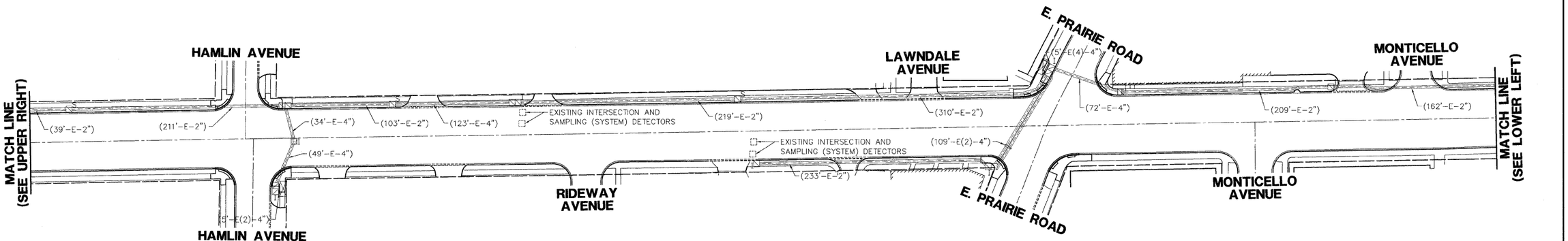
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	47
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

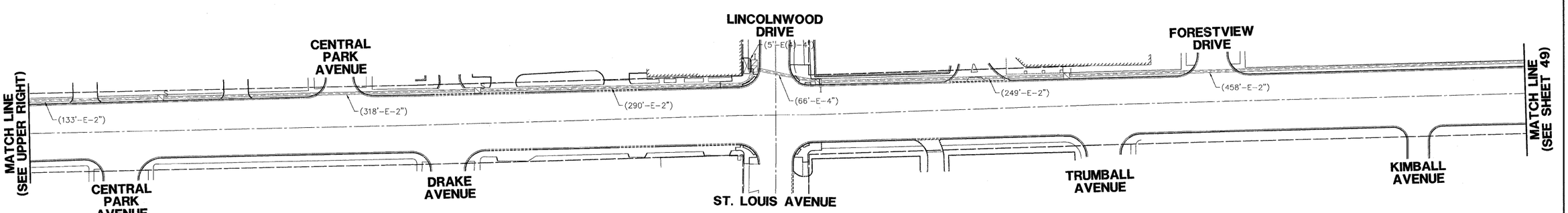
CONSTRUCTION NOTES:

(1) THE CONTRACTOR SHALL REMOVE ALL EXISTING FIBER OPTIC AND TRACER INTERCONNECT CABLES BETWEEN KEELER AVENUE AND McCORMICK BOULEVARD AFTER THE TEMPORARY RADIO INTERCONNECT IS OPERATIONAL.









N

GRAPHIC SCALE
50 0 25 50
(IN FEET)
1 inch = 50 ft.

GHA #4085.868-871

FILE NAME = DEMPSTER INTERCONNECT.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN (SHEET 1 OF 2)
DEMPSTER ST FROM KEELER AV TO McCORMICK BLVD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	48
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES:

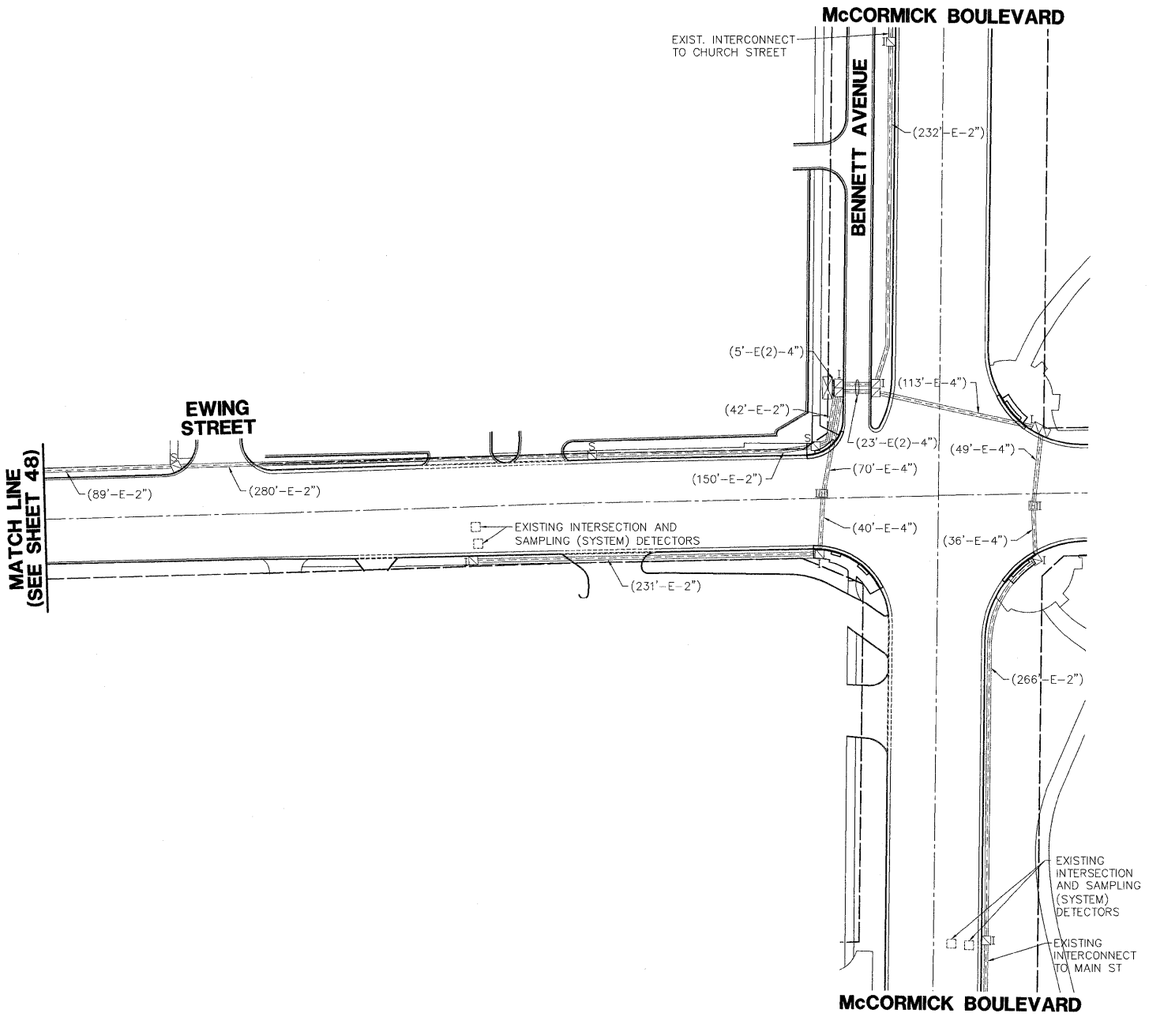
① THE CONTRACTOR SHALL REMOVE ALL EXISTING FIBER OPTIC AND TRACER INTERCONNECT CABLES BETWEEN KEELER AVENUE AND McCORMICK BOULEVARD AFTER THE TEMPORARY RADIO INTERCONNECT IS OPERATIONAL.

N

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.



FILE NAME = DEMPSTER INTERCONNECT.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN (SHEET 2 OF 2)
DEMPSTER ST FROM KEELER AV TO McCORMICK BLVD

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

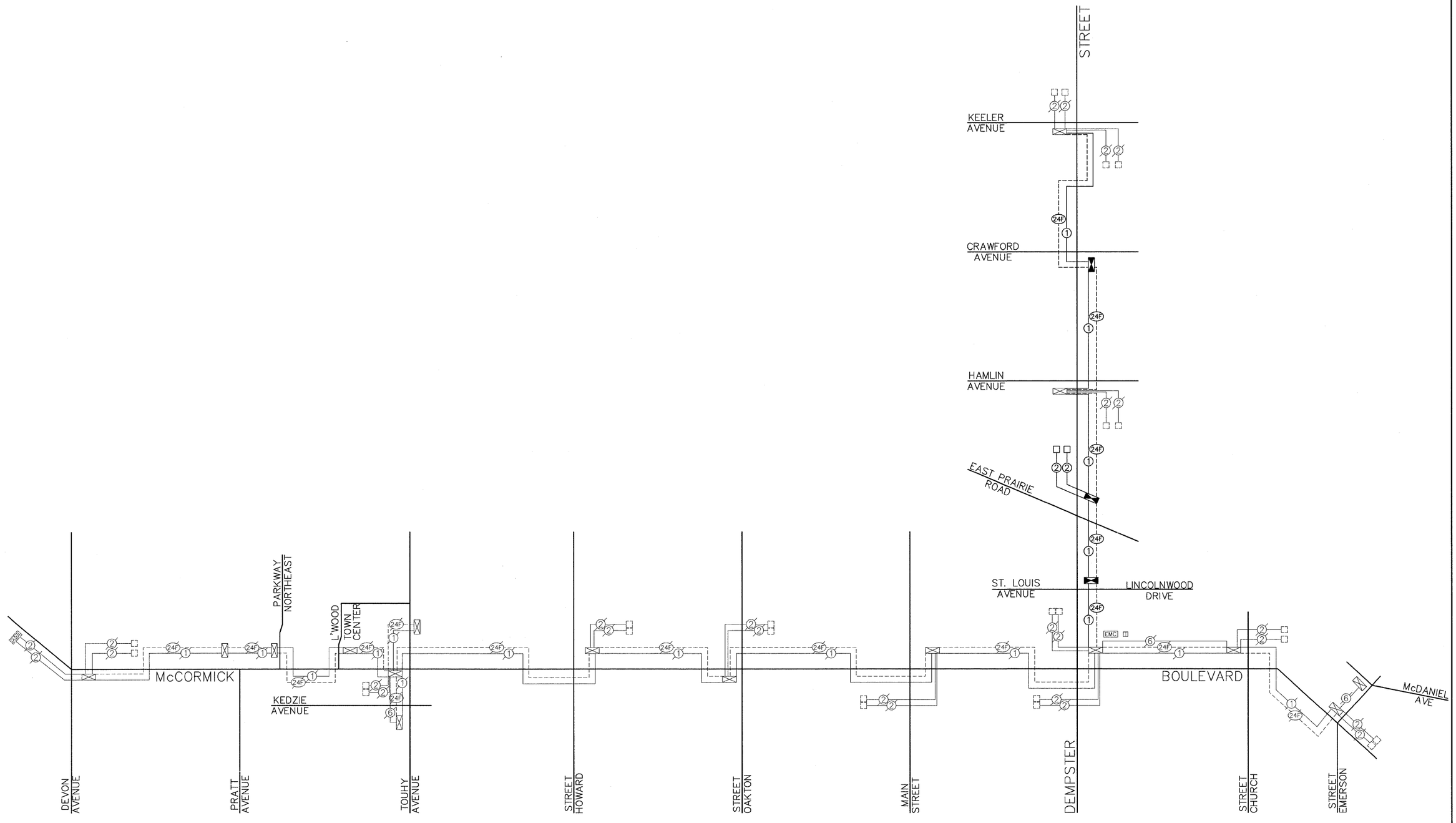
GHA #4085.868-871

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	49
		CONTRACT #:	60K24	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

INTERCONNECT - DEMPSTER STREET FROM KEELER AVENUE TO McCORMICK BOULEVARD

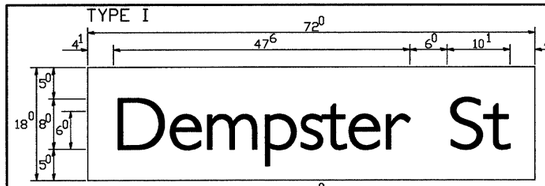
NO.	QUANT.	UNIT	
1.	5,038	FOOT	CLEAN EXISTING CONDUIT
2.	11,264	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
3.	6,696	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
4.	6,696	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F



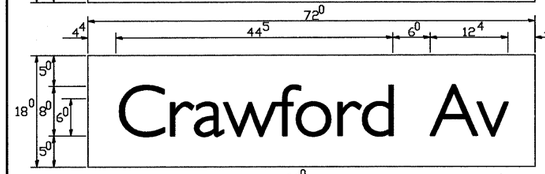
GHA #4085.868-871

FILE NAME = DEMPSTER INTERCONNECT.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERCONNECT SCHEMATIC - McCORMICK BOULEVARD FROM DEVON AVENUE TO EMERSON STREET & DEMPSTER STREET FROM KEELER AVENUE TO McCORMICK BOULEVARD**	F.A.P. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - ZCW	REVISED -			VARIES	2010-006TS / COOK / 58 / 50
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.		CONTRACT #: 60K24
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -				ILLINOIS FED. AID PROJECT

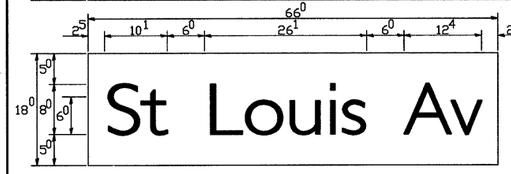
TYPE I



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

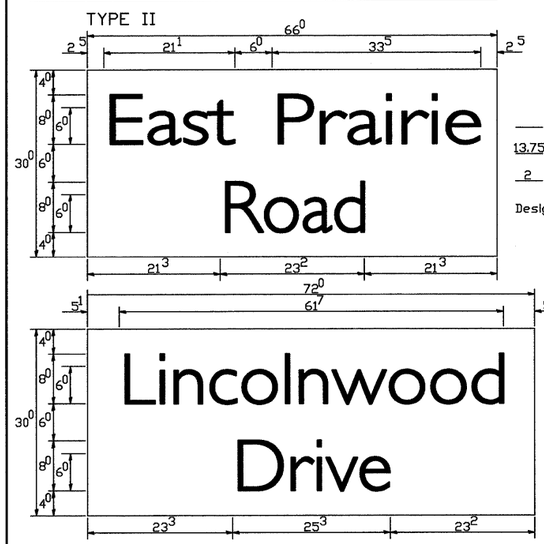


___ Sq. M. each
9.0 Sq. Ft. each
2 Required
Design Series D



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

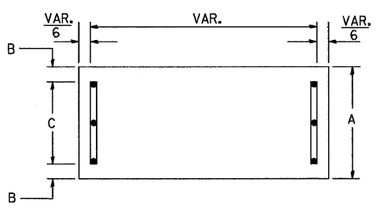
TYPE II



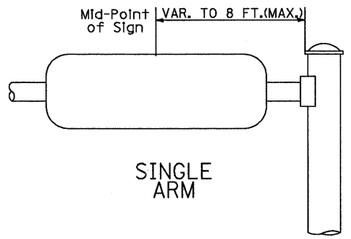
___ Sq. M. each
13.75 Sq. Ft. each
2 Required
Design Series D

___ Sq. M. each
15.0 Sq. Ft. each
2 Required
Design Series C

SUPPORTING CHANNELS

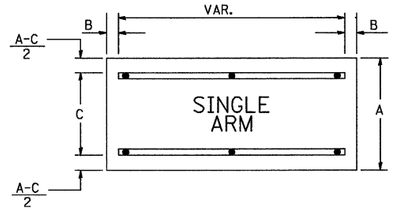


A	B	C
18″	2″	14″

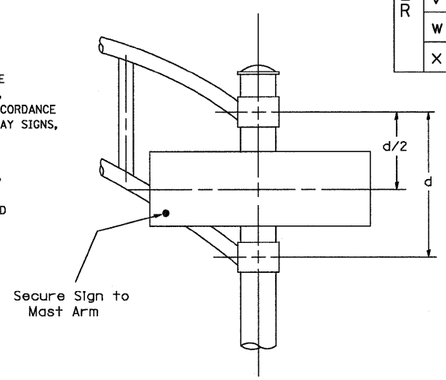


SINGLE ARM

SUPPORTING CHANNELS



A	B	C
18″	2″	12″
30″	2″	22″



DUAL ARM

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

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.

LATEST REVISION DATE: 3-15-09

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 l j l m n q u	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}
b f k o p s	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
c e	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
r	0^{6}	1^{0}	1^{2}	1^{4}	0^{6}	1^{0}	0^{3}	0^{3}	0^{5}	0^{6}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}
t z	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
v y	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}
w	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
x	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}

Number To Number
Spacing Chart 8 Inch Series "C & D"

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

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

UPPER AND LOWER CASE LETTER WIDTHS

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

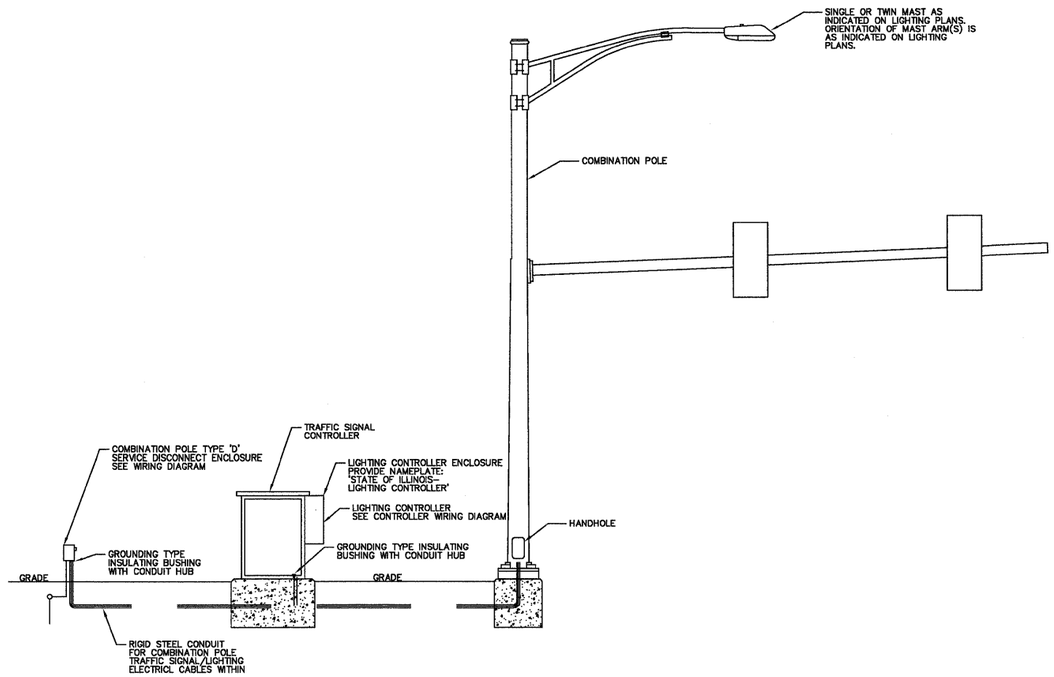
NUMBER	6 INCH SERIES, C	6 INCH SERIES, D	8 INCH SERIES, C	8 INCH SERIES, D
1	1^{2}	1^{4}	1^{5}	2^{0}
2	3^{2}	4^{0}	4^{3}	5^{3}
3	3^{2}	4^{0}	4^{3}	5^{3}
4	3^{5}	4^{3}	4^{7}	5^{7}
5	3^{2}	4^{0}	4^{3}	5^{3}
6	3^{2}	4^{0}	4^{3}	5^{3}
7	3^{2}	4^{0}	4^{3}	5^{3}
8	3^{2}	4^{0}	4^{3}	5^{3}
9	3^{2}	4^{0}	4^{3}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

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

GHA #4085.867-872

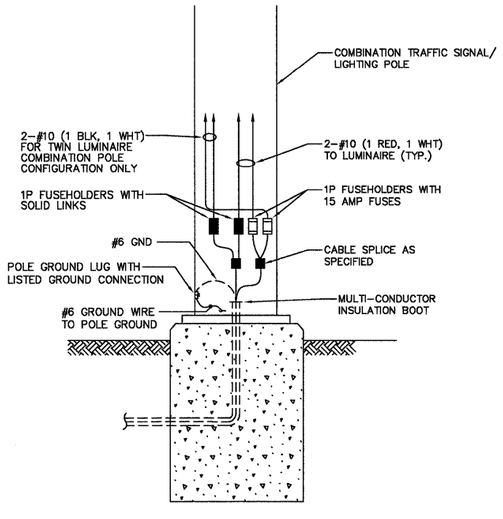
FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS MAST ARM MOUNTED STREET NAME SIGNS
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - JRD	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	51
		CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		



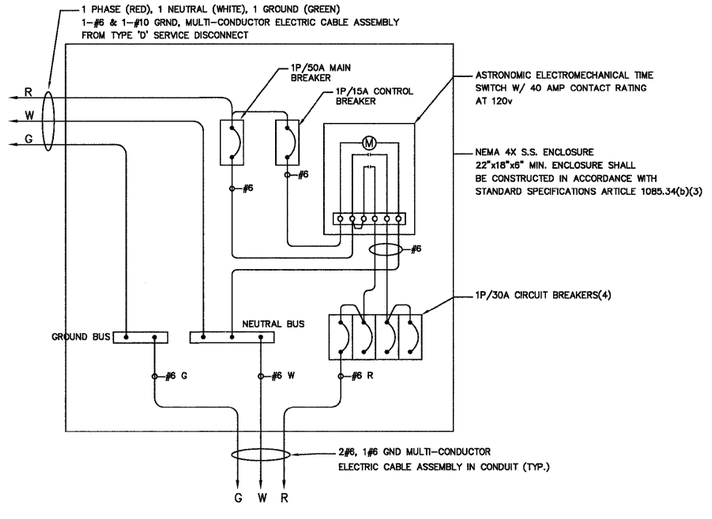
COMBINATION POLE LIGHTING CABLING - TYPICAL

(SEE INTERSECTION/LIGHTING PLANS FOR DETAILED ROUTING REQUIREMENT AND FOR CONDUCTOR AND CONDUIT SIZES)
(NOT TO SCALE)



COMBINATION POLE LIGHTING WIRING DIAGRAM

(NOT TO SCALE)



COMBINATION POLE LIGHTING CONTROLLER WIRING DIAGRAM

(NOT TO SCALE)

GHA #4085.867–872

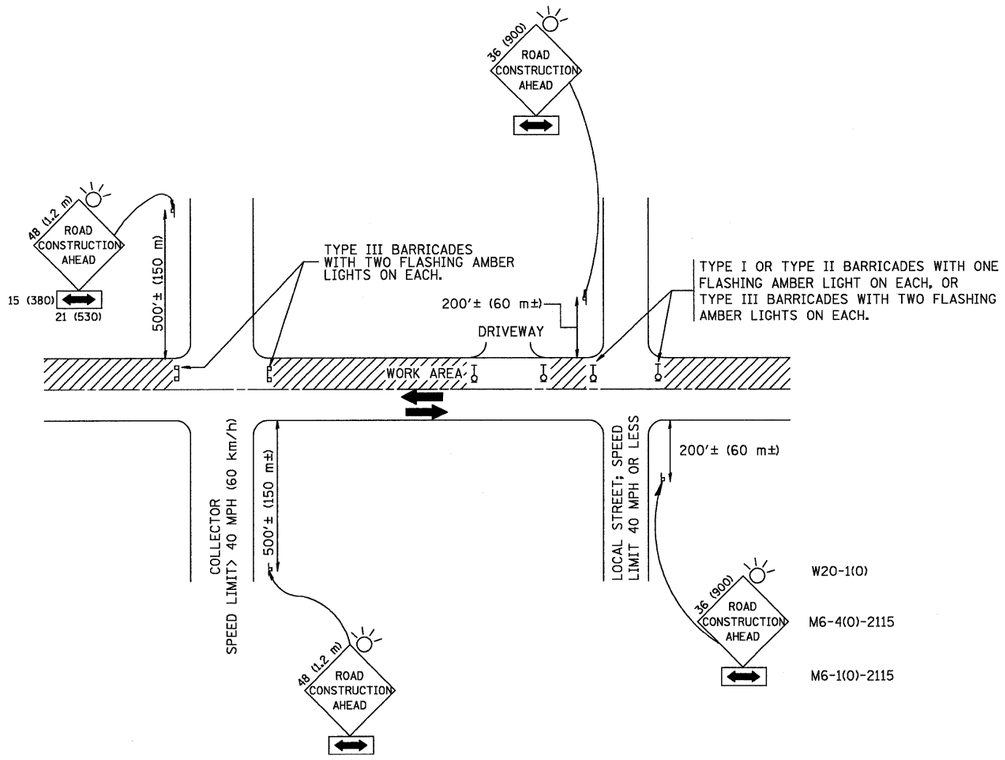
FILE NAME = 4085.867–872–DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRIC SERVICE, CONTROL, & CABLE TERMINATION FOR LIGHTING ON COMBINATION TRAFFIC/SIGNAL LIGHT POLES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010–006TS	COOK	58	52
		CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			



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

NOTES:

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

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

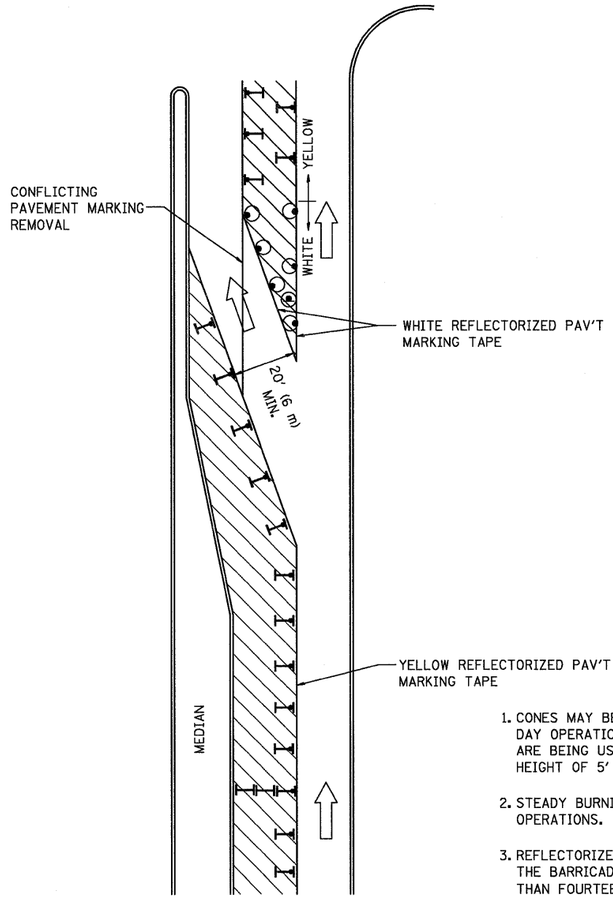
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER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

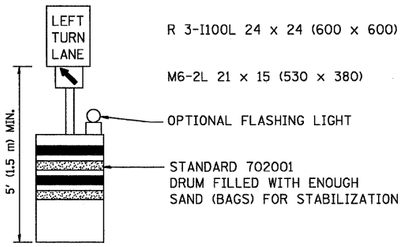
C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

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

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

TC-10, LATEST REVISION DATE: 01-06-00





GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS

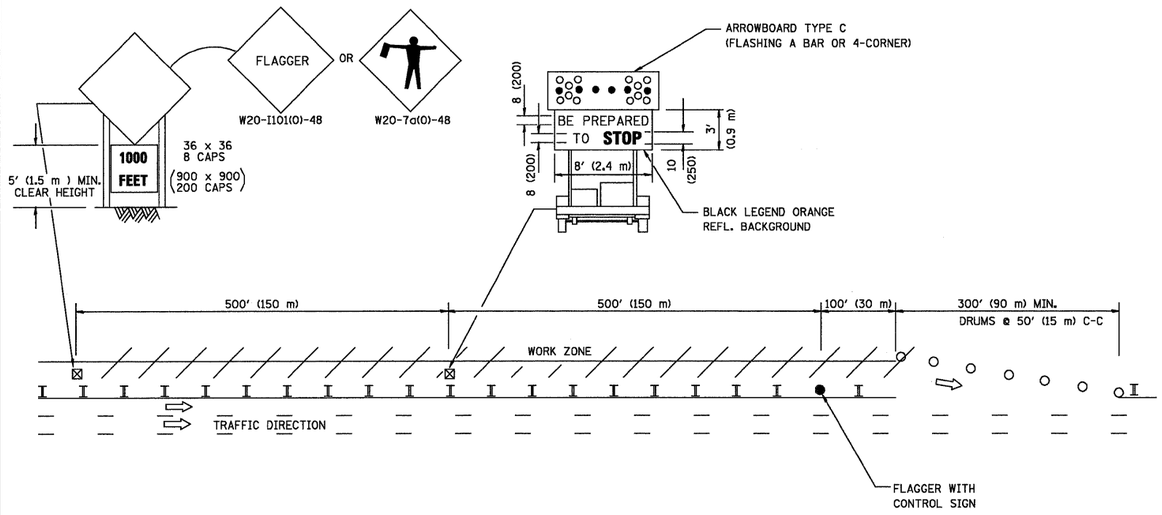
TC-14, LATEST REVISION DATE: 9-14-09

GHA #4085.867-872

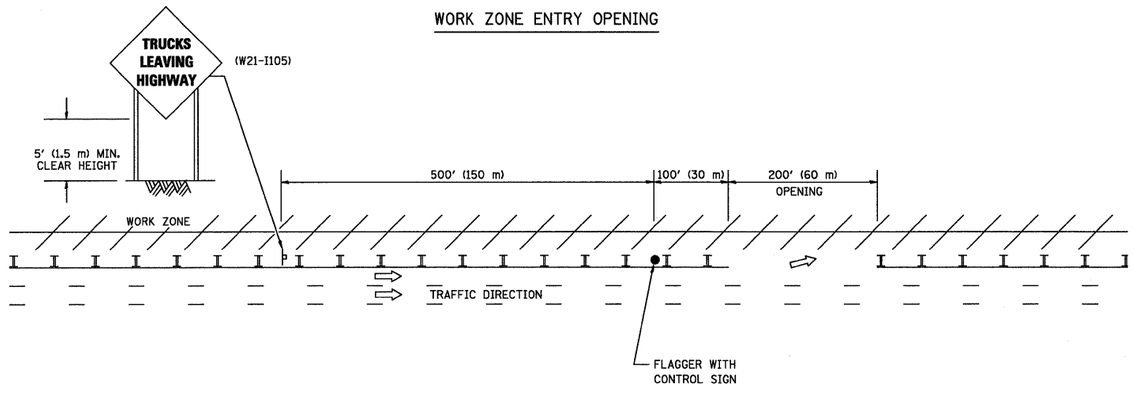
FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -			VARIES	2010-006TS	COOK	58	53
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.		TC-10 & TC-14	CONTRACT #: 60K24		
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -					ILLINOIS	FED. AID PROJECT	

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENING

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



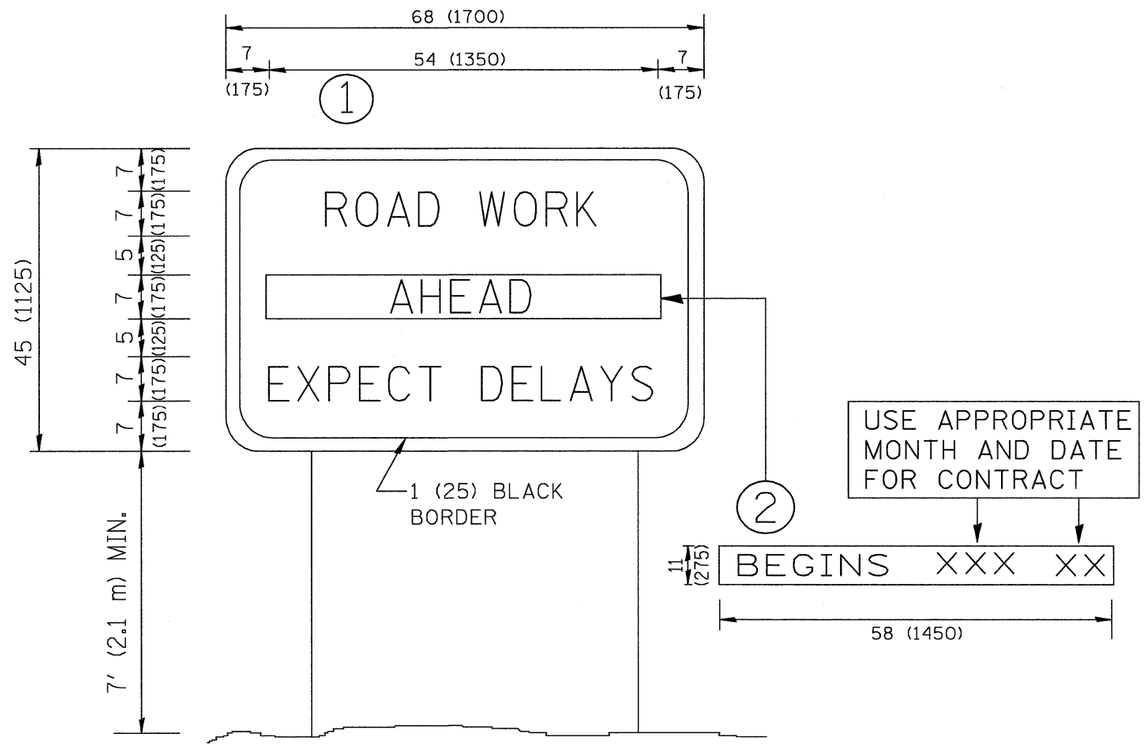
NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

TC-18, LATEST REVISION DATE: 12-09

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

ARTERIAL ROAD INFORMATIONAL SIGN



NOTES:

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

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

TC-22, LATEST REVISION DATE: 01-31-07

GHA #4085.867-872

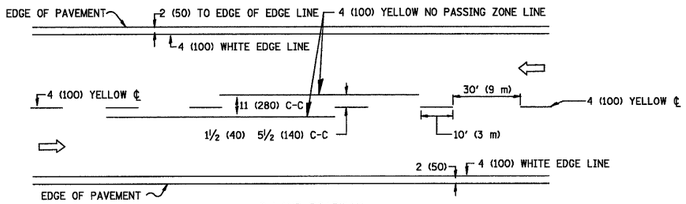
FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

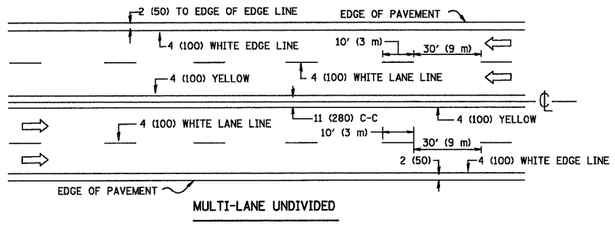
DISTRICT 1
STANDARD DETAILS

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

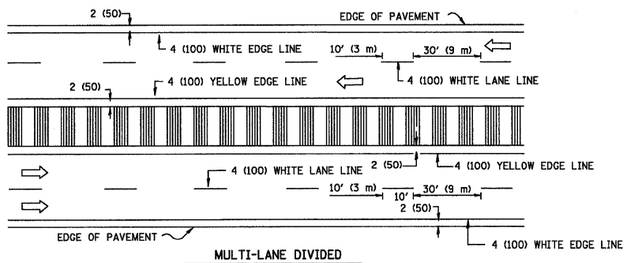
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	54
	TC-18 & TC-22	CONTRACT #: 60K24		
	ILLINOIS FED. AID PROJECT			



2-LANE ROADWAY



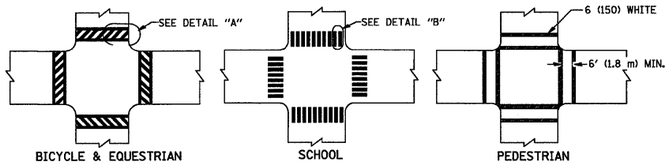
MULTI-LANE UNDIVIDED

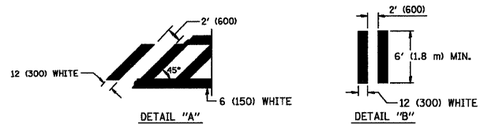


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

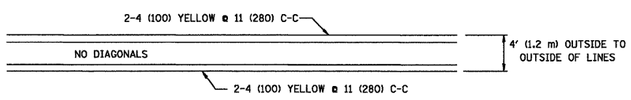
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

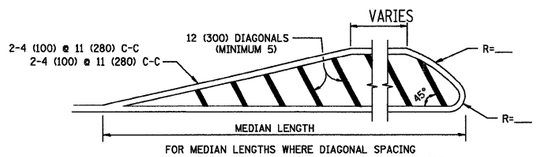




TYPICAL CROSSWALK MARKING



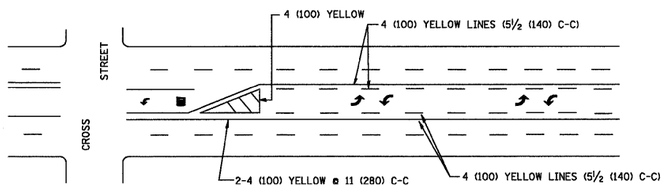
4' (1.2 m) WIDE MEDIANS ONLY



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

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

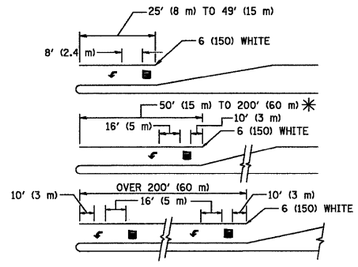
MEDIANS OVER 4' (1.2 m) WIDE



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

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

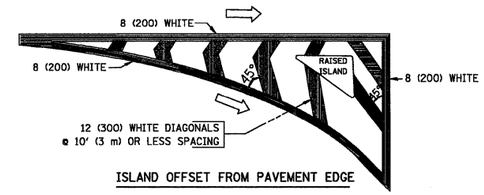


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) ⬆ AREA = 20.8 SQ. FT. (1.9 m²)

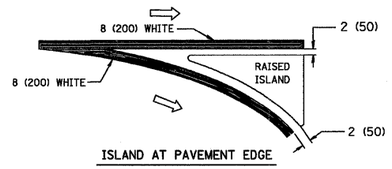
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

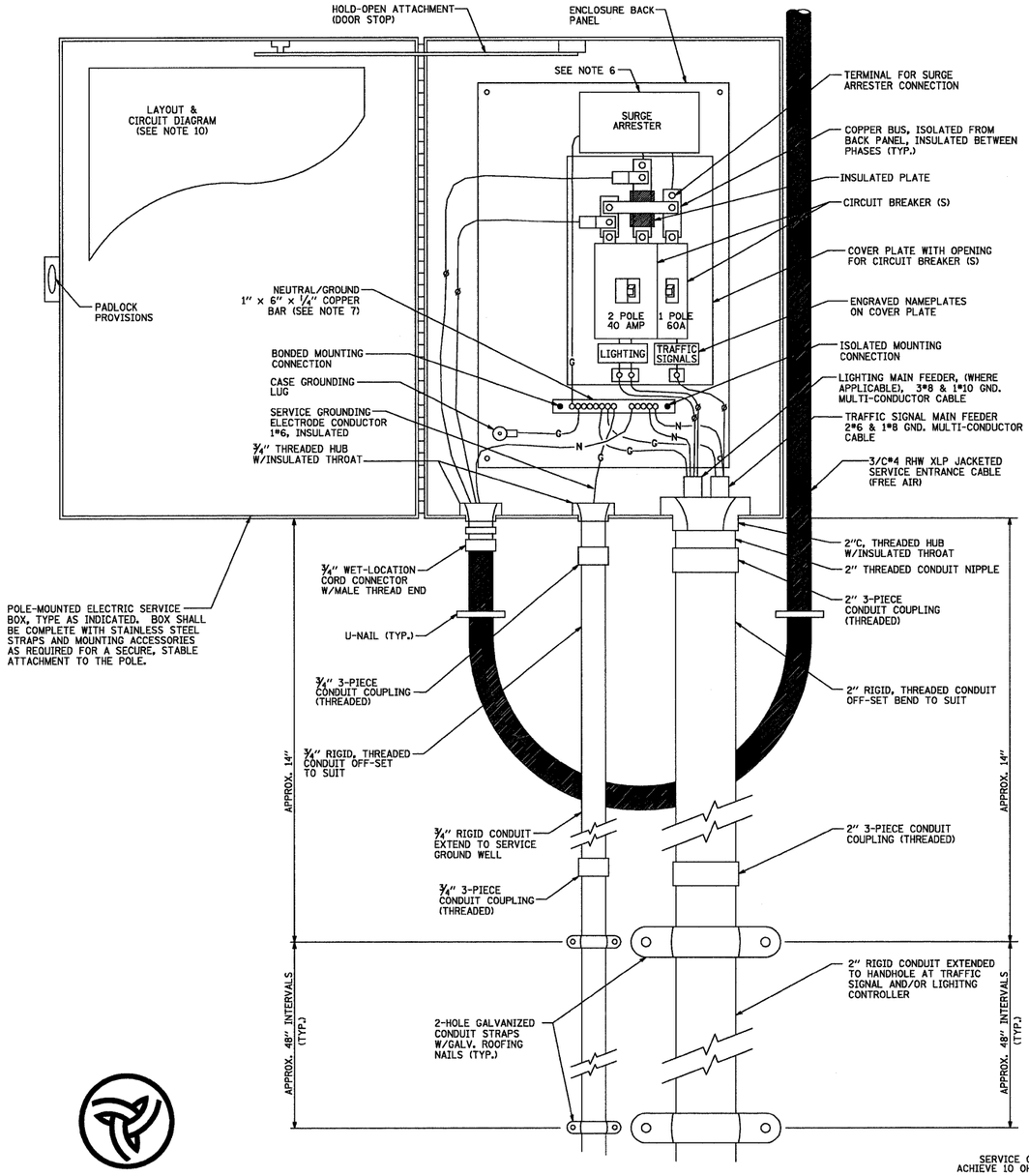
All dimensions are in inches (millimeters) unless otherwise shown.

TYPICAL PAVEMENT MARKINGS

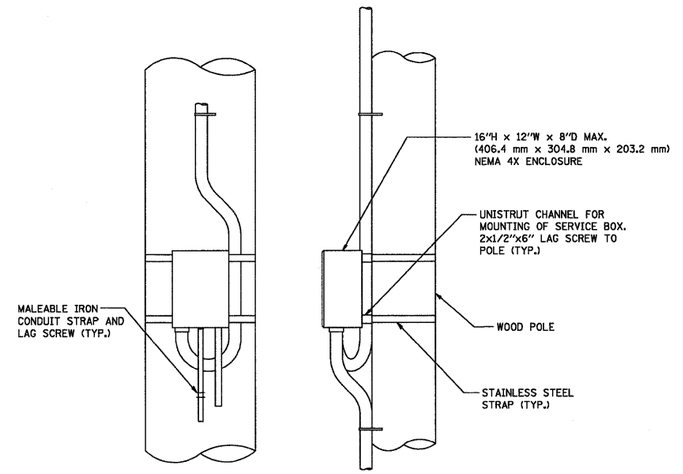
TC-13, LATEST REVISION DATE: 09-09-09

GHA #4085.867-872

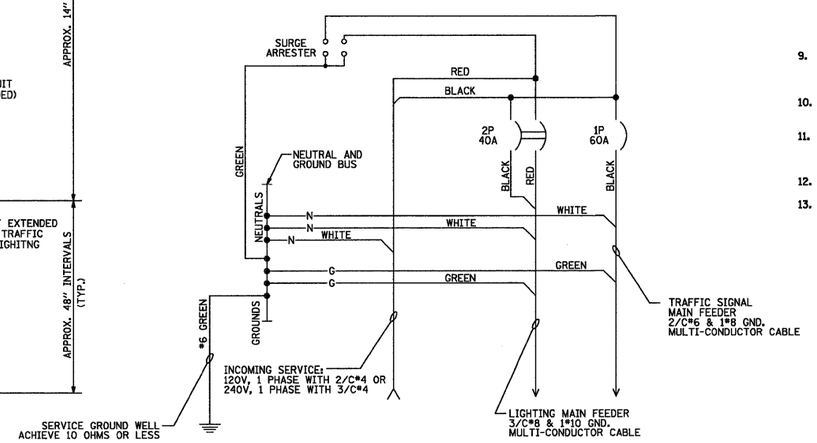
FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -			VARIES	2010-006TS	COOK	58	55
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -				TC-13	CONTRACT #: 60K24		
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



POLE-MOUNTED ELECTRIC SERVICE ENTRANCE
GENERAL LAYOUT DIAGRAM



DISCONNECT MOUNTING DETAIL
N.T.S.



SCHEMATIC DIAGRAM

NOTES:

1. ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
2. THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:
   - TYPE A — FULLY EQUIPPED FOR 240/120V. 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
   - TYPE A1 — FULLY EQUIPPED FOR 240/120V. 3W SERVICE, BLANK COVER IN LIEU OF LIGHTING MAIN BREAKER
   - TYPE B — EQUIPPED FOR 120V. SERVICE, COMPLETE WITH 1P, 60A. TRAFFIC SIGNALS MAIN BREAKER
   - TYPE B1 — EQUIPPED FOR 120V. SERVICE, COMPLETE WITH 1P, 40A. TRAFFIC SURVEILLANCE MAIN BREAKER
3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H1208SSGLP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/ TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.
7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
9. THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
11. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
12. LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

6" DECAL ON FRONT COVER

BE-230, LATEST REVISION DATE: 08-13-04

COMBINATION LIGHTING & TRAFFIC POLE MOUNTED ELECTRIC SERVICE BOX DETAIL

GHA #4085.867-872

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD DETAILS

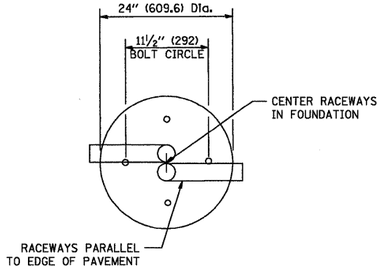
SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	56
	BE-230	CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		

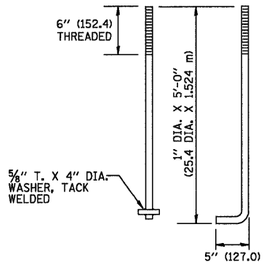
LIGHT POLE FOUNDATION
30' (9.144 m) TO 35' (10.668 m)
M.H. 11 1/2" (292 mm) BOLT CIRCLE

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

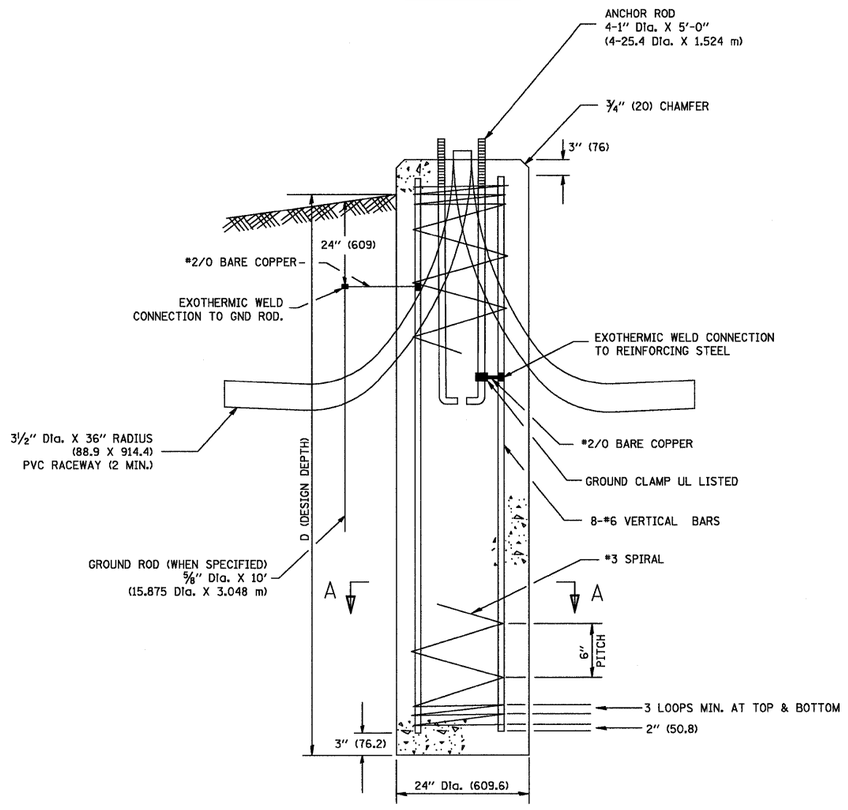
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND Ø = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND Ø = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND Ø = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



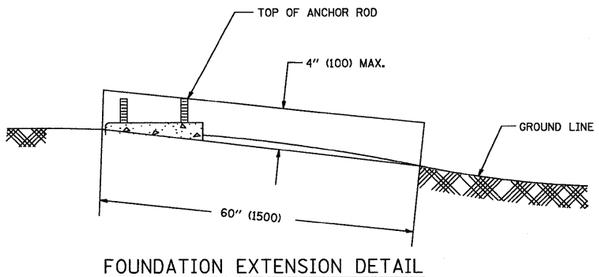
TOP VIEW



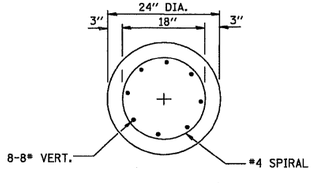
ANCHOR BOLT DETAIL



FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



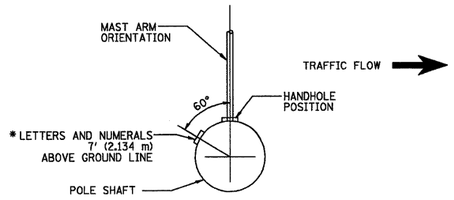
SECTION A-A

NOTES

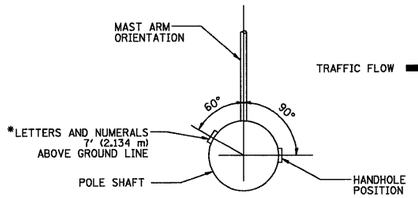
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED ¾-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

GHA #4085.867-872

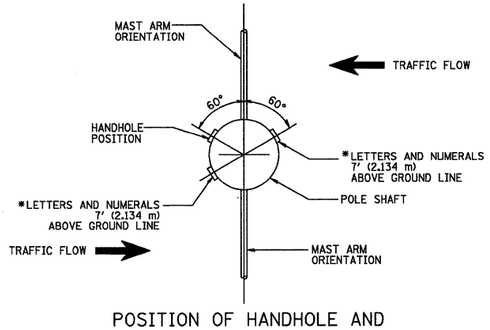
FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -					VARIES	2010-006TS	COOK	58	57
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -						BE-300	CONTRACT #: 60K24		
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -		SCALE: N.A.	SHEET NO. OF SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		



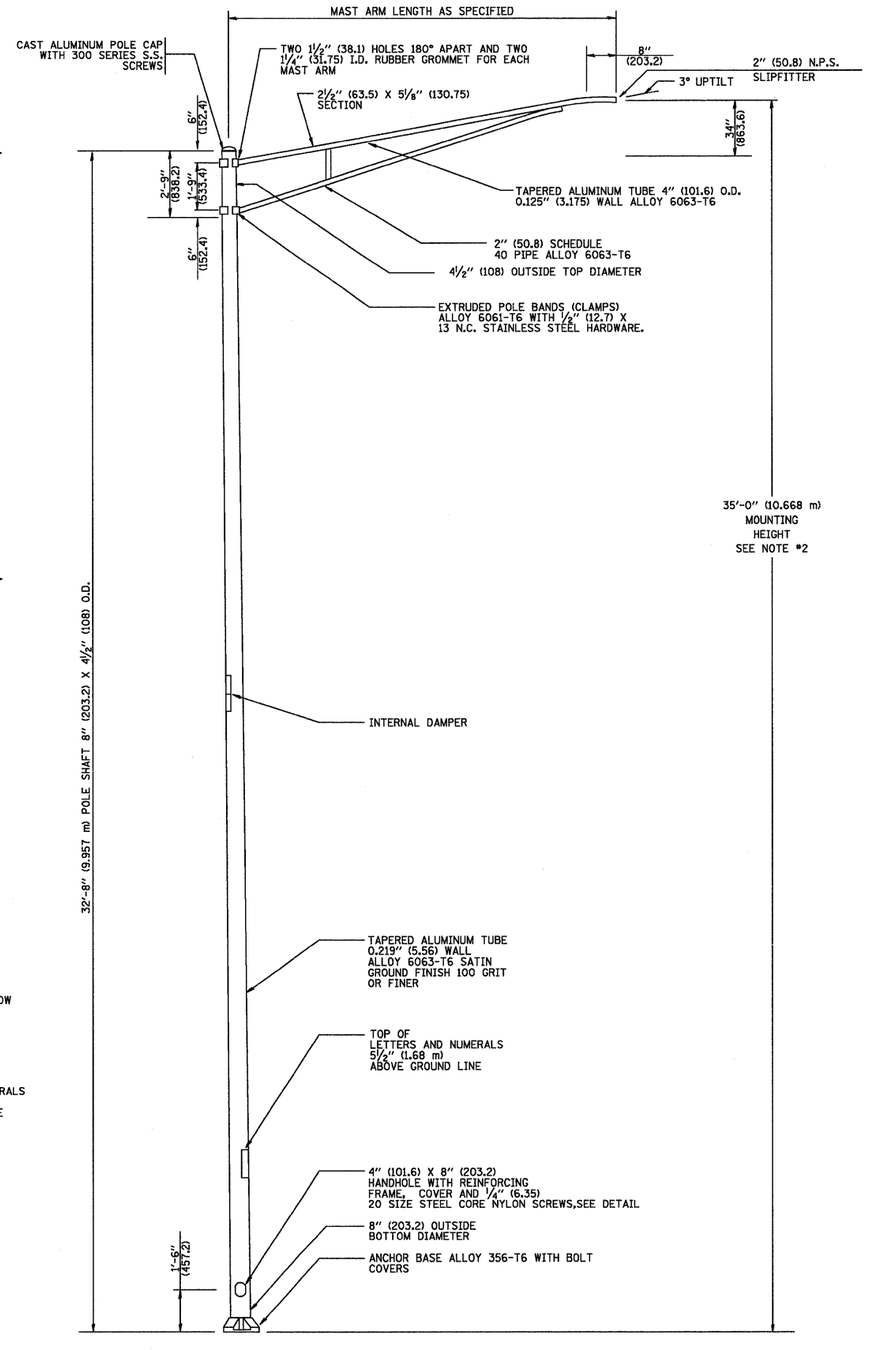
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

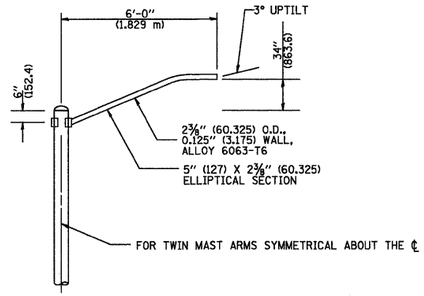


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

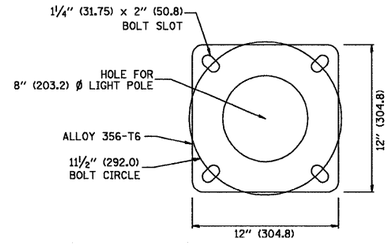




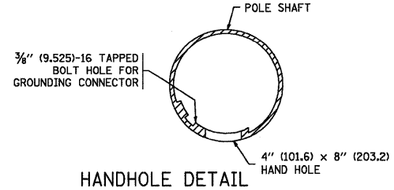
6' (1.8 m) SINGLE MEMBER MAST ARM
(N.T.S.)

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
11½" (292.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

ALUMINUM LIGHT POLE
35'-0" (10.668 m) MOUNTING HEIGHT

BE-402, LATEST REVISION DATE: 09-02-03

GHA #4085.867-872

FILE NAME = 4085.867-872-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 10/29/2010	DATE - 10/29/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	2010-006TS	COOK	58	58
	BE-402	CONTRACT #: 60K24		
		ILLINOIS FED. AID PROJECT		