08-02-13 LETTING ITEM 018

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

IDOT STANDARDS:

STD. NO. STANDARD SYMBOLS, ABBREVIATIONS AND SYMBOLS 000001-06 OFF-BOAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY 781001-02 701006~04 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE OFF-ROAD OPERATIONS, MULTILANE, 15" (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE 701101-03 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY 701106-02 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED 701501-08 URBAN LANE CLOSURE, 2L, 2W, BIDIRECTIONAL LEFT TURN LANE 701502-05 701601--08 URBAN LANE CLOSURE, MULTILANE, 1W, OR 2W WITH NONTRAVERSABLE MEDIAN 701606-08 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION TRAFFIC CONTROL DEVICES 701901-02 SIGN PANEL MOUNTING DETAILS 720001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 857001-01

UNINTERRUPTABLE POWER SUPPLY (UPS)

TRAFFIC SIGNAL MOUNTING DETAILS

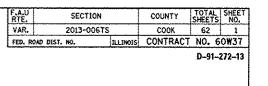
VARIOUS LOCATIONS IN NORTHWEST COOK COUNTY LIGHT EMITTING DIODE (LED) INSTALLATION CONTRACT #2

> SECTION 2013-006TS COOK COUNTY C-91-272-13

> > COOK COUNTY LOCATION MAP SEE SHEET NO. 3

> > > O62-046494
> > > REGISTERED
> > > PROFESSIONAL
> > > ENGINEER
> > > OF
> > >
> > > Street
> > >
> > > Talket LINO
> > > Expires 11-31-13







STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 28 20 13
Thin D. Baranzolli P.E. &
actives engineer of design and environmen

June 28 20 13 One Oswan P.E. B. DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

OF THE STATE OF ILLINOIS

PRINTED BY THE AUTHORITY

0 100° 200° 398° — 1° = 100° 0 50° 150° 100° 1° = 50° 0 50° 100° 1° = 40° 0 50° 100° 1° = 30° 1° = 30° — 1° = 20°

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

J.U.L.I.E.
JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: SUDUD MAHMOUD PROJECT MANAGER: DARYLE DREW

CONTRACT NO. 60W37

., DISTRICT ONE: STEPHEN TRAVIA / SUDUD MAHMOUD (847) 705-4420

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INDEX OF SHEETS

T5#

PAGE

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COVER SHEET
INDEX OF SHEETS
LOCATION MAP
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SUMMARY OF QUANTITIES

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS 9--14 INTERSECTION NAME

PAGE	<u>T5#</u>	INTERSECTION NAME
15	3213	IL 68 DUNDÉE RD AT BUFFALO GROVE FIRE HOUSE
16	3112	IL 68 DUNDEE RD AT BUFFALO GROVE HIGH SCHOOL
17	3110	IL 68 DUNDEE RD AT BUFFALO GROVE RD
18	3155	IL 68 DUNDEE RD AT GOLFVIEW TERRACE
19	3210	IL 68 DUNDEE RD AT WEIDNER RD/CROFTON LN
20	20480	PALATINE RD AT ROSELLE RD
21	5315	HICKS RD AT CARPENTER DR
22	5295	HICKS RD AT CUNNINGHAM DR
23	11735	HICKS RD AT CONNINGHAM DR HICKS RD AT HELEN RD
24		
2 1 25	5305	HICKS RD AT ILLINOIS AVE/INDUSTRIAL AVE
	12005	HICKS RD AT SELLSTROM DR (FKA OLD HICKS RD)
26	2970	IL 62 ALGONQUIN RD AT HARPER COLLEGE DR
27	2990	IL 62 ALGONQUIN RD AT ROSELLE RD
28	3122	IL 68 DUNDEE RD AT DENISE DR
29	3120	IL 68 DUNDEE RD AT HICKS RD
30	1157	IL 68 DUNDEE RD AT LYNDA DR
31	3165	IL 68 DUNDEE RD AT QUENTIN RD
32	3190	IL 68 DUNDEE RD AT SMITH RD
33	3168	IL 68 DUNDEE RD AT STERLING AVE
34	5425	LAKE COOK RD AT QUENTIN RD
35		PALATINE RD AT QUENTIN RD
36	14715	PALATINE RD AT SMITH ST
37	1150	US 12-IL 53 RAND RD AT IL 53 HICKS RD
38	1280	US 14 NORTHWEST HWY AT QUENTIN RD
39	20590	US 14 NORTHWEST HWY AT FIRST BANK DR
40-41	1225	US 14 NORTHWEST HWY AT HICKS RD S JCT
42	1180	US 14 NORTHWEST HWY AT IL 53 EAST RAMP
43	1185	US 14 NORTHWEST HWY AT IL 53 WEST RAMP
44	1172	US 14 NORTHWEST HWY AT STERLING AVE
45	1250	US 14 NORTHWEST HWY AT US POST OFFICE ENTRANCE
46	5300	HICKS RD AT EUCLID AVE
47	11730	HICKS RD AT NORTHROP GRUMMAN DR
48	2665	IL 53 EAST RAMP AT IL 62 ALGONQUIN RD
49	2860	IL 58 GOLF RD AT RING RD (3COM)
	2770	IL 58 GOLF RD AT GOULD DR
51	2930	IL 62 ALGONQUIN RD AT ARBOR DR
52	14741	IL 62 ALGONQUIN RD AT CARRIAGE WAY/ESSEX WAY
53	2980	IL 62 ALGONQUIN RD AT MAGNOLIA DR/COMMERCE DR
54	2708	IL 62 ALGONQUIN RD AT MARKET PLACE ENTRANCE
55	2985	IL 62 ALGONQUIN RD AT NEW WILKE RD
56	21595	IL 62 ALGONQUIN RD AT NEWPORT DR
57	14744	IL 62 ALGONQUIN RD AT WEBER RD/OLD WILKE RD
58	5395	KIRCHOFF RD AT WILKE RD/NEW WILKE RD
59	5600	OLD PLUM GROVE RD AT MEACHAM RD
60	2967	IL 62 ALGONQUIN RD AT MEIJER DR

- TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS 61 AND DRIVEWAYS (TC-10)
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC~14)

GENERAL NOTES:

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.

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

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK, FOR LOCATIONS OF UTILITIES. LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

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

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

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

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAYEMENT, 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.

ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE TEST STANDARD OF THE ILLINOIS DEPARTMENT OF

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES.

THE CONTRACTOR IS REQUIRED TO ATTEND AN ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) PRECONSTRUCTION MEETING AND SHALL INFORM THE IDOT TRAFFIC ENGINEER BEFORE WORK COMMENCES.

THE CONTRACTOR SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS.

THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING SAFE AND HEALTHFUL CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING REFORE THE DAMAGE INCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE,

NEW CONTROLLER CABINETS SHALL BE PLACED SO THAT, a) THE DOORS OPEN AWAY FROM THE CURB OR TRAVEL WAY, b) AND THE TRAFFIC MOVEMENTS AT THE INTERSECTION ARE VISIBLE FROM THE CONTROLLER.

ANY CONTROLLER CABINET WHETHER NEW OR EXISTING TO RECEIVE UPS, WILL HAVE A "L" SHAPED 3 FOOT CONCRETE MAINTENANCE PAD INSTALLED. THE COST OF INSTALLATION OF CONCRETE PAD IS INCIDENTAL TO NEW CONTROLLER AND OR UPS INSTALLATIONS.

PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION, THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST, IF THE BOLTS ARE NOT REUSABLE, THEN THE EXISTING POST SHALL REMAIN IN PLACE OR AS DIRECTED BY THE

ALL EXISTING SIGNING SHALL BE MAINTAINED PER ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS AND TRANSFERRED TO THE NEW TRAFFIC SIGNALS WHERE APPLICABLE. CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEAD INTERSECTIONS OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING SIGNAL HEAD, LED, RETROFIT PAY ITEM OF THE TYPE AND NUMBER OF SIGNAL HEADS, FACES AND SECTIONS AS SPECIFIED IN THE PLANS.

THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE TRAFFIC SIGNAL POST. GALVANIZED STEEL PAY ITEM OF THE LENGTH AS SPECIFIED ON THE PLANS.

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, CONTRACTOR SHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATION:

IL ROUTE 53 EAST RAMP AT IL ROUTE 62 ALGONQUIN ROAD TS# 5300 HICKS ROAD AT EUCLID AVENUE

VILLAGE OF ROLLING MEADOWS 3600 KIRCHOFF ROAD ROLLING MEADOWS, IL 60008 847-394-8500

REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH LOMBARD, IL 60148

630-317-5720

TO STA.

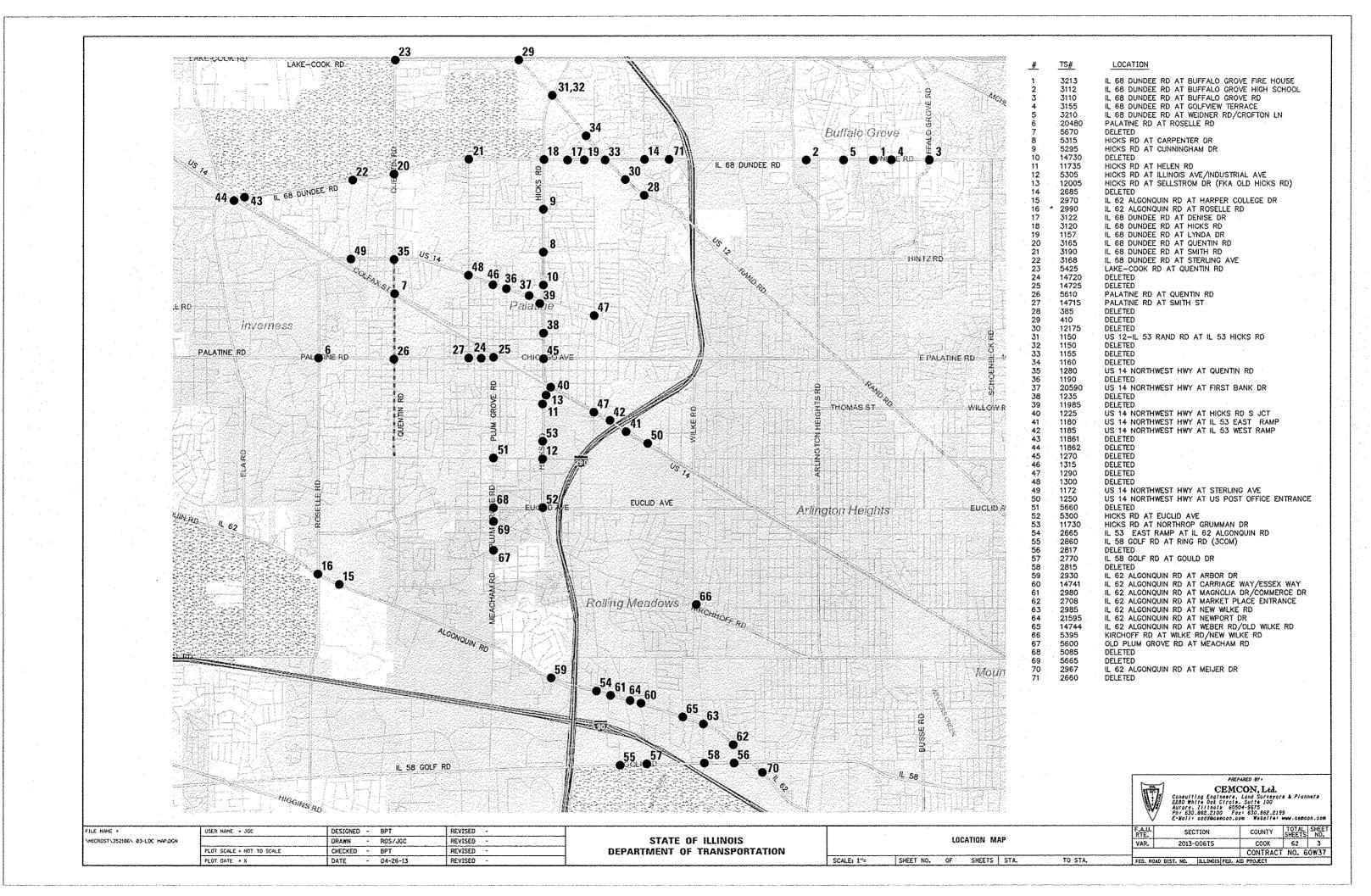
PREPARED BY CEMCON, Ltd. Consulting Engineers. Land Surveyors & Planners 2280 White Oak Cirols. Suite 100 Aurora, Illinois 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199 E-Wall: odddoomoon.com Website: w

USER NAME . JCC FILE NAME . DESIGNED - BPT REVISED -MICROST\352186\ 82-INDEX.DCN DRAWN - RDS/JGC REVISED . PLOT SCALE = NOT TO SCALE CHECKED - SPT REVISED - 04-26-13 REVISED DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS

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

SECTION COUNTY 2013-006TS COOK 62 2 VAR. CONTRACT NO. 60W37 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



			FI	UNDING PARTICIPATI	ON						
OCATION	COLUMN	TS •	INTERSECTION	MUNICIPALITY	STATE	LAKE COUNTY	BUFFALO GROVE	PALATINE	ROLLING MEADOWS	U.S. POSTAL SERVICE	ATRIUM A 3800 GOLF LLC
1	3	3213	IL 68 DUNDEE RD AT BUFFALO GROVE FIRE HOUSE	BUFFALO GROVE	96. 7%		3. 3%				
2	3	3112	IL 68 DUNDEE RD AT BUFFALO GROVE HIGH SCHOOL	BUFFALO GROVE	96. 7%	<u> </u>	3, 3%			<u></u>	<u> </u>
3	1	3110	IL 68 DUNDEE RD AT BUFFALO GROVE RD	BUFFALO GROVE	100.0%	<u></u>					ļ
4	8	3155	IL 68 DUNDEE RD AT GOLFVIEW TERRACE	BUFFALO GROVE	95, 0%		5.0%				ļ
5	8	3210	IL 68 DUNDEE RD AT WEIDNER RD/CROFTON LN	BUFFALO GROVE	95.0%		5. OX				<u> </u>
6	1	20480	PALATINE RD AT ROSELLE RD	INVERNESS	100.0%					ł	<u> </u>
7		5670	DELETED				ļ				ļ
8	9	5315	HICKS RD AT CARPENTER DR	PALATINE	95. 0%			5.0%			ļ
9	9	5295	HICKS RD AT CUNNINGHAM DR	PALATINE	95.0%	<u> </u>		5.0%			<u> </u>
10		14730	DELETED	PALATINE		ļ			····-		
1.1	4	11735	HICKS RD AT HELEN RD	PALATINE	96. 7%	ļ	<u> </u>	3. 3%		<u> </u>	
12	10	5305	HICKS RD AT ILLINOIS AVE/INDUSTRIAL AVE	PALATINE	95.0%	<u> </u>		2.5%	2, 5%		ļ
13	9	12005	HICKS RD AT SELLSTROM DR (FKA OLD HICKS RD)	PALATINE	95.0%	<u> </u>		5.0%			
14 .		2685	DELETED	20.12705	05 01/			5.01			
15 16	9	2970	IL 62 ALCONOUTH PD AT POSELLE PD	PALATINE	95.0%		<u> </u>	5.0%		<u> </u>	
17	9	3122	IL 62 ALGONQUIN RD AT ROSELLE RD IL 68 DUNDEE RD AT DENISE DR	PALATINE	100.0%	 		E 01			
18	1	3120	IL 68 DUNDEE RD AT HICKS RD	PALATINE PALATINE	95.0%			5, 0%		ļ	
19	9	1157	IL 68 DUNDEE RD AT LYNDA DR	PALATINE	95. 0%	 		5, 0%			
20	1	3165	IL 68 DUNDEE RD AT QUENTIN RD	PALATINE	100.0%	<u> </u>		3.0%			
21	9	3190	IL 68 DUNDEE RD AT SMITH RD	PALATINE	95.0%			5, 0%			
22	4	3168	IL 68 DUNDEE RD AT STERLING AVE	PALATINE	96. 7%			3. 3%			ļ
23	13	5425	LAKE COOK RD AT QUENTIN RD	PALATINE	97. 5%	2, 5%		3, 3,			
24		14720	DELETED	TACATING	V 11 V/2	2, 5/4			··		
25		14725	DELETED								<u> </u>
26	1	5610	PALATINE RD AT QUENTIN RD	PALATINE	100.0%						
27	4	14715	PALATINE RD AT SMITH ST	PALATINE	96. 7%			3, 3%			
28		385	DELETED	1						· · · · · · · · · · · · · · · · · · ·	- :
29		410	DELETED								
30		12175	DELETED	1							
31	1	1150	US 12-IL 53 RAND RD AT IL 53 HICKS RD	PALATINE	100.0%						
32		1150	DELETED								
33		1155	DELETED								
34		1160	DELETED				· · · · · · · · · · · · · · · · · · ·				
35	1	1280	US 14 NORTHWEST HWY AT QUENTIN RD	PALATINE	100.0%						
36		1190	DELETEO							-	`
37	9	20590	US 14 NORTHWEST HWY AT FIRST BANK DR	PALATINE	95.0%			5.0%			1
38		1235	DELETED						· · · · · · · · · · · · · · · · · · ·		
39		11985	DELETED								
40	2	1225	US 14 NORTHWEST HWY AT HICKS RD S JCT	PALATINE	97.5%			2.5%			<u> </u>
41	1	1180	US 14 NORTHWEST HWY AT IL 53 EAST RAMP	PALATINE	100.0%						T
42	1	1185	US 14 NORTHWEST HWY AT IL 53 WEST RAMP	PALATINE	100.0%						
43		11861	DELETED								
44		11862	DELETED								
45		1270	DELETED								
46		1315	DELETED								
47		1290	DELETED								
48		1300	DELETED								
49	9	1172	US 14 NORTHWEST HWY AT STERLING AVE	PALATINE	95.0%			5.0%			
50	6	1250	US 14 NORTHWEST HWY AT US POST OFFICE ENTRANCE	PALATINE	96. 7%					3. 3%	
51		5660	DELETED								
52	1	5300	HICKS RD AT EUCLID AVE	ROLLING MEADOWS	100.0%						
53	5	11730	HICKS RD AT NORTHROP GRUMMAN DR	ROLLING MEADOWS	96. 7%				3. 3%		
54	1	2665	IL 53 EAST RAMP AT IL 62 ALGONOUIN RD	ROLLING MEADOWS	100.0%						
55	7	2860	IL 58 GOLF RD AT RING RD (3COM)	ROLLING MEADOWS	96. 7%						3, 3%
56		2817	DELETED								
57	11	2770	IL 58 GOLF RD AT GOULD DR	ROLLING MEADOWS	95.0%				5.0%		
58	ĺ	2815	DELETED					1			

CEMCON, Ltd.
Concuiting Engineers, Lond Surveyore & Planners
2280 White Oct Circle, Suite 100
Aurora, Illinois 60504-78675
Ph. 630,882,2100 Fax: 630,682,2199
E-Maji: octdosamoon.oom Wabailer www.cemoon.oo

DESIGNED - BPT USER NAME 4 JGC REVISED -DRAWN - RDS/JGC
CHECKED - BPT
DATE - 04-26-13 REVISED -REVISED -PLOT SCALE = NOT TO SCALE PLOT DATE * X

FILE NAME .

\MICROST\352186\ 84-SUMMARY.DCN

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 1 OF 5) SCALE: 1"=20" SHEET NO. OF SHEETS STA. TO STA.

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F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
VAR.	2013-006TS	COOK	26	4
		CONTRAC	T NO. 6	OW3
FED. RO	AD DIST. NO. BLUBOIS FED. AID	PROJECT		

			SUMMARY C	F QUANTITIES HEAD!	ING LEGEND						
 	·· · · · · · · · · · · · · · · · · · ·	 	F	UNDING PARTICIPATI	ON						
LOCATION	COLUMN	T\$ *	INTERSECTION	MUNICIPALITY	STATE	LAKE COUNTY	BUFFALO GROVE	PALATINE	ROLLING MEADOWS	U.S. POSTAL SERVICE	ATRIUM AT 3800 GOLF
59	11	2930	IL 62 ALGONOUIN RD AT ARBOR DR	ROLLING MEADOWS	95.0%				5.0%		T
60	11	14741	IL 62 ALGONOUIN RD AT CARRIAGE WAY/ESSEX WAY	ROLLING MEADOWS	95.0%				5.0%		
61	11	2980	IL 62 ALGONOUIN RD AT MAGNOLIA DR/COMMERCE DR	ROLLING MEADOWS	95.0%				5.0%		1
62	11	2708	IL 62 ALGONOUIN RD AT MARKET PLACE ENTRANCE	ROLLING MEADOWS	95.0%				5.0%		
63	11	2985	IL 62 ALGONOUIN RD AT NEW WILKE RD	ROLLING MEADOWS	95.0%				5. 0%		
64	5	21595	IL 62 ALGONQUIN RD AT NEWPORT DR	ROLLING MEADOWS	96. 7%				3. 3%		
65	5	14744	IL 62 ALGONQUIN RD AT WEBER RD/OLD WILKE RD	ROLLING MEADOWS	96. 7%				3. 3%		
66	12	5395	KIRCHOFF RD AT WILKE RD/NEW WILKE RD	ROLLING MEADOWS	92.5%	1			7, 5%		T
67	5	5600	OLD PLUM GROVE RD AT MEACHAM RD	ROLLING MEADOWS	96. 7%	1		- '	3. 3%		1
68		5085	DELETED]					1
69		5665	DELETED								
70	11	2967	IL 62 ALGONQUIN RD AT MEIJER DR	ROLLING MEADOWS	95.0%				5.0%		1
71		2660	DELETED			<u> </u>	1		· · · · · · · · · · · · · · · · · · ·		1

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PREPARED BY:

CEMCON, L64.

Consulting Engineers. Land Surveyors & Planners
2200 White Engineers. Land Surveyors & Planners
2200 White Engineers. Land Surveyors & Planners
Ph. 530. 682.2109 Fext. 530.682.2199
E-Well's coddmoemoon.com Website' www.comcon.com

FILE NAME +	user mame « JGC	DESIGNED -	BPT	REVISED -
\MICROST\352186\ 85-SUMMARY,BGN		DRAWN -	RDS/JGC	REVISED -
	PLOT SCALE = NOY TO SCALE	CHECKED -	8PT	REVISED -
	PLOT DATE * X	DATE -	04-26-13	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

		SUI		Y OF QUA		
ALE: 1"=20"	SHEET !	NO.	OF	SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
VAR.	2013-006TS	COOK	62	5
		CONTRACT	NO. 6	OW3
FED, RC	DAD DIST. NO. ILLINOIS FED. A	LID PROJECT		

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1,	2	3	4	5	6	7	8	9	10	11	12	13	

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CODE		1	TOTAL					T	RAFF	IC S	IGN	AL				
NUMBER	ITEM	UNIT	QUANTITY						Į	JRBA	N					
			000000000000000000000000000000000000000	-										***************************************		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6										***************************************		
-			-											***************************************		
67100100	MOBILIZATION	L SUM	1	1										Acessassia		

70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1								-		***************************************	1	
			To the state of th												-	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	45	12	1	2	3	4	1	1	2	9 .	1	7	1	1
		<u> </u>														
86400100	TRANSCEIVER - FIBER OPTIC	EACH	5					2	1	1				1		
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87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	7					3 .						4	***************************************	
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	9	3			<u> </u>	1					3.	2		
					ļ											
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1				ļ	1								
				ļ			<u></u>									
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	11	2				8						1	***************************************	
		<u> </u>	***************************************				ļ								***************************************	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	19				<u> </u>	12					2	5		
					ļ										***************************************	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6	4				2								

88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	13	4	ļ		<u> </u>	2					4	3	_	
		***		<u></u>												
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5	<u> </u>				2						3	_	
		1					_	<u> </u>						***************************************		
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	6	<u></u>									4	2		_
N.			<u> </u>											***************************************		

	PREPARED BY	
ONA.	CEMCON, Led.	
	Consulting Engineers. Lond Surveyors &	Planner
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2280 White Oak Circle, Suite 100 Aurera, Itilhola 60504-9675	
/	Ph: 630.862.2100 Fax: 630.862.2199	****

	FILE NAME :	USER NAME = JGC	DESIGNED	-	8PT	REVISED -
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-		PLOT DATE . X	DATE	-	04-26-13	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	s		RY OF QUANTITIE HEET 3 OF 5)	S
SCALE: 1"=20'	SHEET NO.	٥F	SHEETS STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
VAR.	2013-006TS	COOK	62	6
		CONTRACT	NO. 6	0W3
FED. RO	AD DIST. NO. ILLINOIS FED. A	D PROJECY		

				1	2	3	4	5	6	7	8	9	10	11	12 13
		****	***************************************	CONSTRUCTION CODE 0021											
CODE		TOT							RAFF	IC S	IGNA	AL			
NUMBER	ITEM	UNIT	QUANTITY						Ĺ	JRBAI	4				
					-								-		www.
88030310	SIGNAL HEAD, LED. 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1											1	-
88030330	SIGNAL HEAD, LED. 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	1											1	
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	62	11	 -	2	6	4	2			24		10	3
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	13	4		2		2	1			3		1	

88102757	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	1											1.
-															
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	36	18				10					4	4	
											$\overline{}$			-	
88500100	INDUCTIVE LOOP DETECTOR	EACH	29	****				8	5	8				8	
			4.5	**************************************			6					30		16	-
88800100	PEDESTRIAN PUSH-BUTTON	EACH	44				ь					22		10	
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	40	12	1	2	3	2			2	9	1.	6	1 1
														-	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	27	4		1	1	4	1	1	1	6	1	6	1
				ļ		ļ						_		***************************************	
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	5					2	1	1				1	_
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	45	12	1	2	3	4	1	1	2	9	1	7	1 1
X8880015	PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	46	17		4,		6	3		4	5		3 .	4

X8803038	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1									1 -			-
		***************************************	***************************************						l					\perp	and the same of th

PREPARED BY:

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Aucars, Illinois 60504-8675
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E-Wall: aaddacemon.com Website: www.cemcon.com

FILE NAME :	USER NAME = JGC	DESIGNED	~	8PT	REVISED -
\MJCROST\352186\ B7-SUMMARY.DGN		DRAWN	-	RDS/JGC	REVISEO -
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	PLOT DATE * X	DATE	-	04-26-13	REVISED -

STAT	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 4 OF 5)								
SCALE: 1"=20"	SHEET NO.	OF	SHEETS	STA.	TO STA.			

_	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEE.
	VAR.	2013-006TS	COOK	62	7
_			CONTRACT	NO. 6	OW37
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1111nals 60504-9615
Ph. 530. 562.2109 Fax: 630.682.2199
E-Wall: coddDocmcon.com Webbile: www.gemoon.com

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SH
VAR.	2013-006TS	COOK	62	- {
 		CONTRACT	NO. 6	OW.
FED. RC	PAD DIST. NO. BLUNDIS FED. A	D PROJECT		

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0042 REVISED -FILE NAME . USER NAME . JGC DRAWN - ROS/JGC CHECKED - BPT MICROST\352186\ 88-SUMMARY,DGN REVISED -PLOT SCALE + NOT TO SCALE REVISED -DATE - 04-26-13 PLOT DATE = X REVISED -

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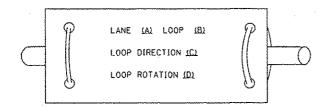
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 5 OF 5) SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

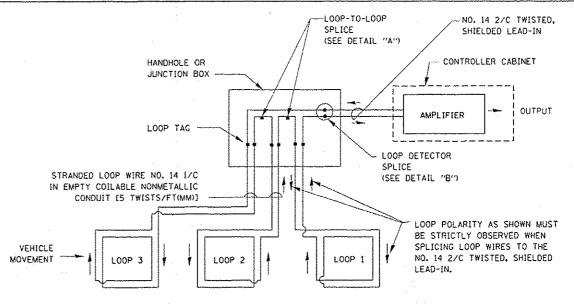
LOOP DETECTOR NOTES

- 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

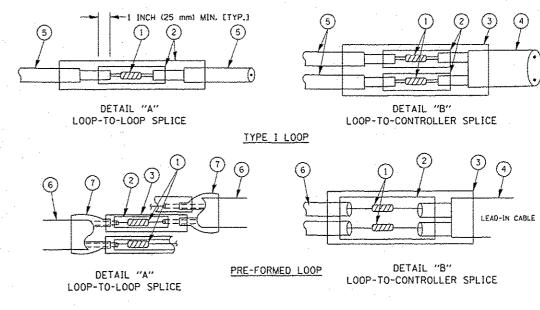


- A. LANE I IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP "1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



LOOP DETECTOR SPLICE

- 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

SCALE:

T XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

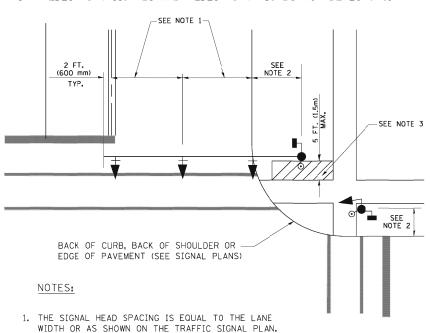
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	F.A.P. SECTION COUNTY SHEE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR. 2013-006TS COOK 62	9
STANDARD TRAFFIC STONAL DESIGN DETAILS	CONTRACT NO.	60W37
CALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

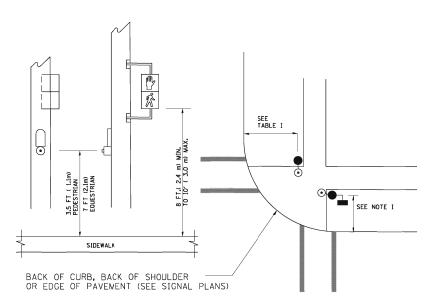
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



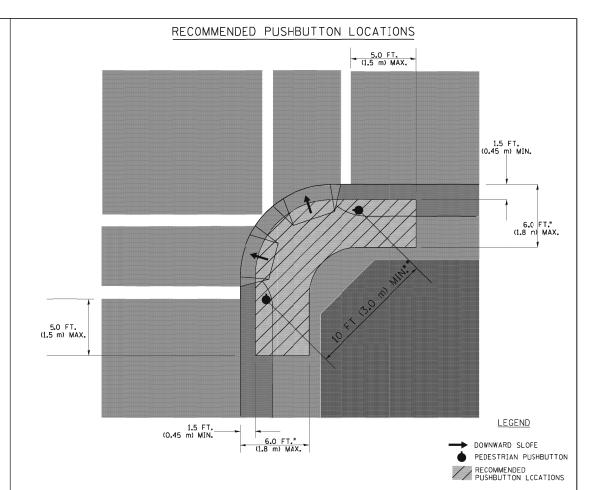
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE; UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO 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."



- 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:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

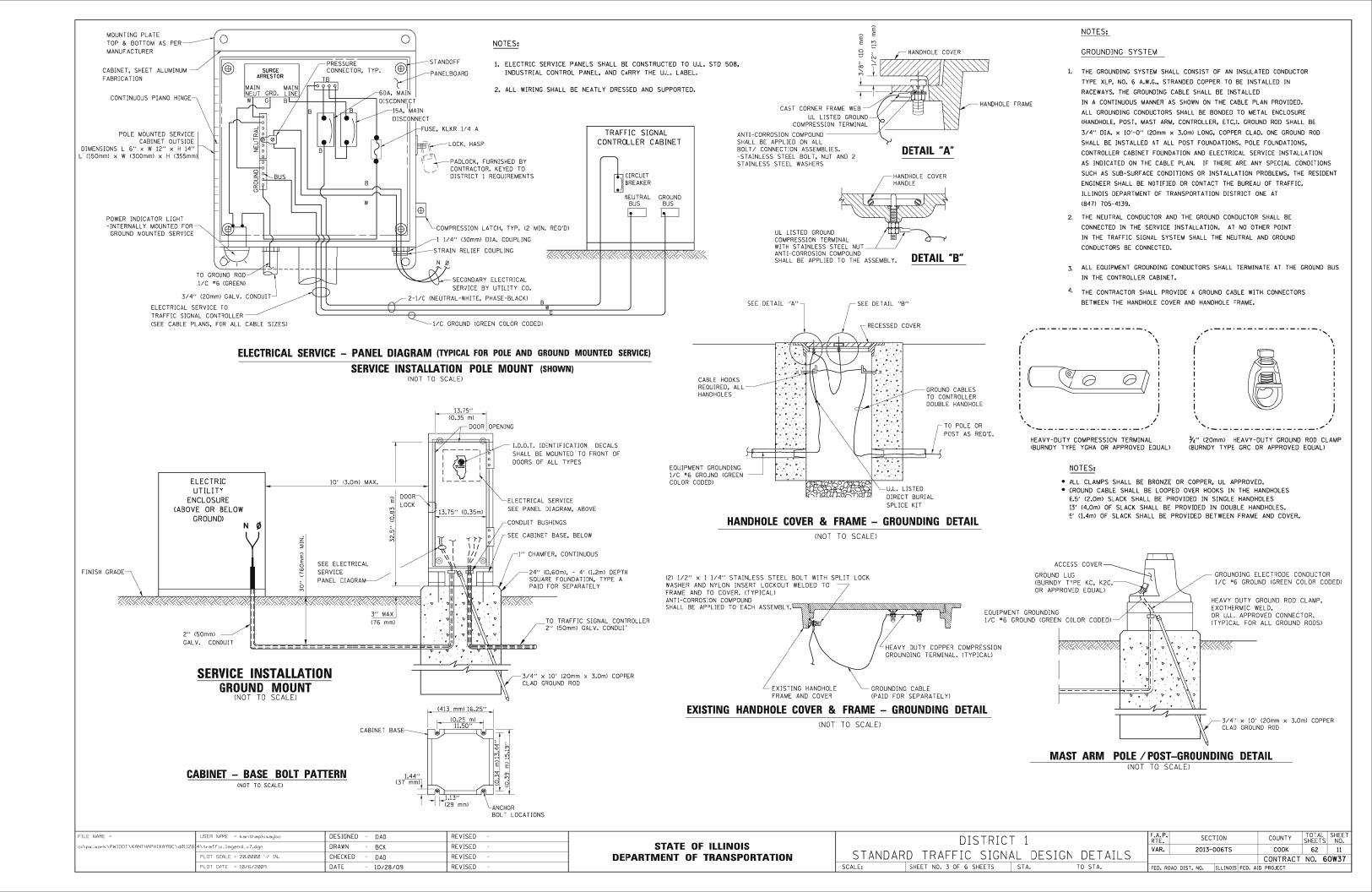
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
-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

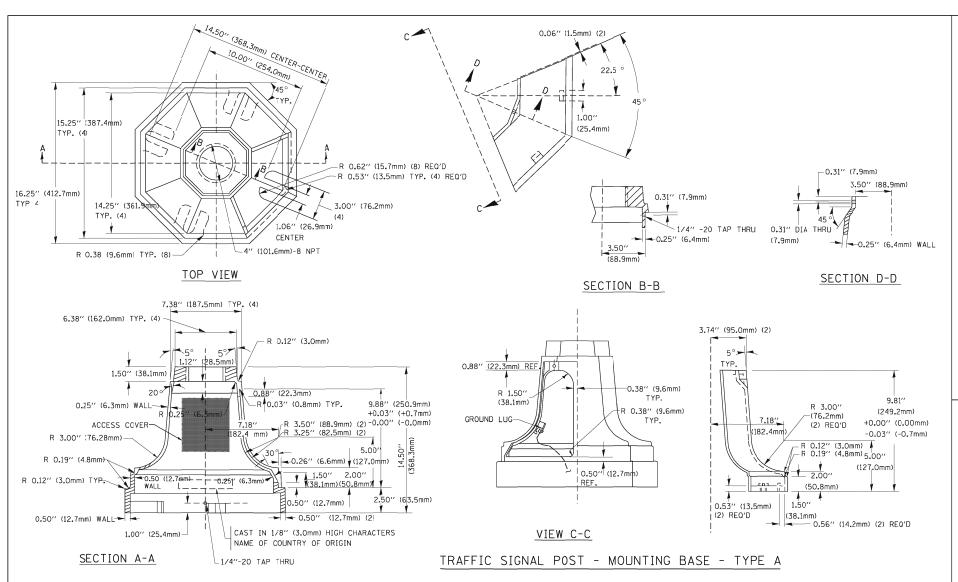
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		PLDT DATE = 10/6/2009	DATE	- 10/28/09	REVISED	-

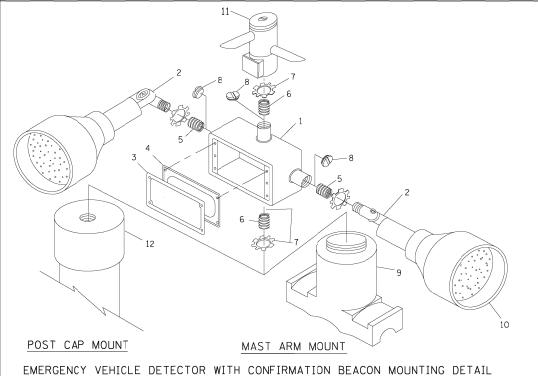
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	DIS	TRICT	1		F.A.P. RTE.	
STANDARD	TRAFFIC	SIGNA	L DESIGN	DETAILS	VAR.	20
SCALE:	SHEET NO. 2 OF 6	SHEETS	STA.	TO STA.	FED. ROAD DI	ST. NO

F.A.P. RTE.		SEC ²	TION			COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		2013-0	DO6TS		T	COOK	62	10
						CONTRACT	NO. 6	50W37
FED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		



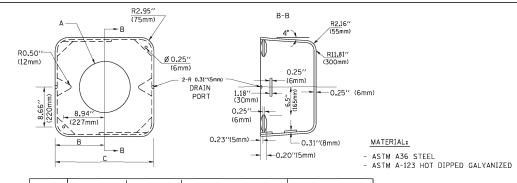




ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

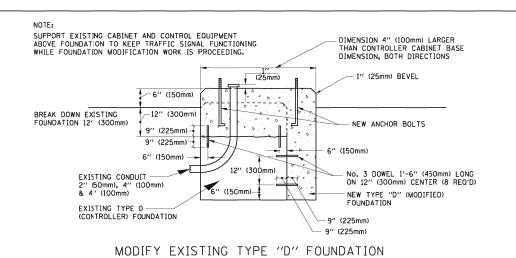


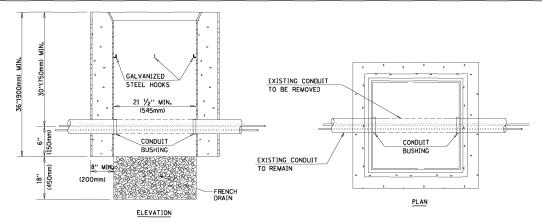
Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

NOTES:

- 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.





NOTES:

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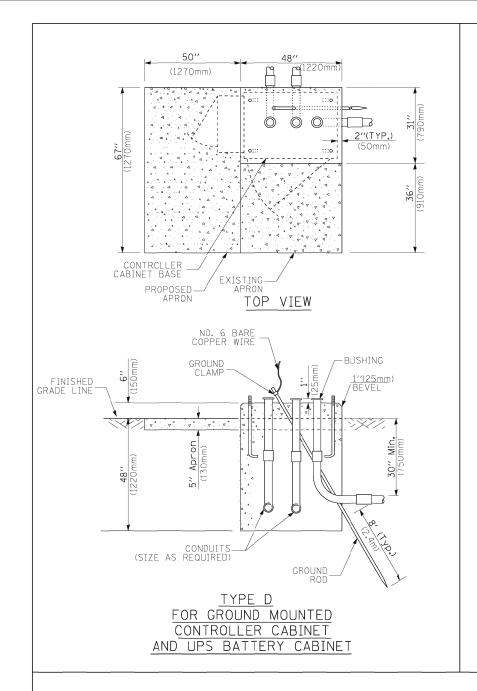
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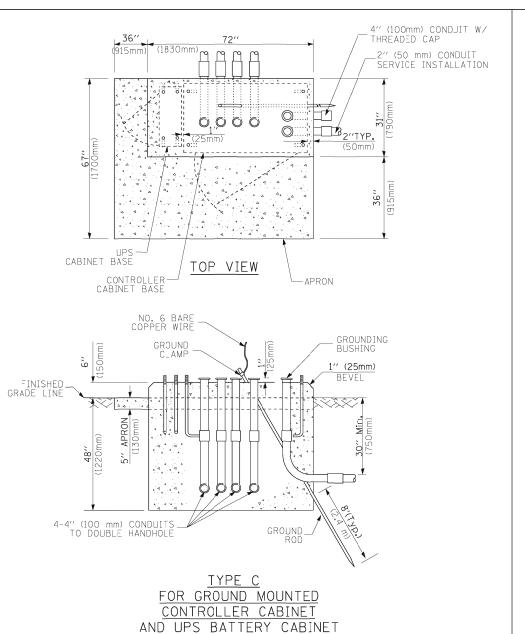
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

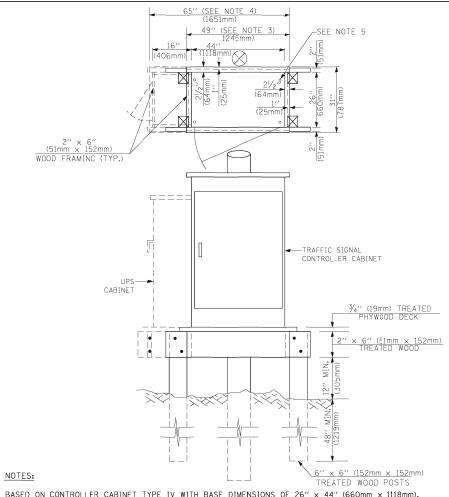
HANDHOLE TO INTERCEPT EXISTING CONDUIT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT	1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ANDARD TRAFFIC SIGNA	J DESIGN DETAILS	VAR.	2013-006TS	COOK	62	12
ANDARD TRAFFIC SIGNA	L DESIGN DETAILS	2		CONTRACT	NO. 6	OW37
SHEET NO. 4 OF 6 SHEETS	STA. TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED. A	AID PROJECT		







- 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

TYPE D - CONTROLLER	4'-0''	(1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0''	(1.2m)

FOUNDATION

TYPE A - Signal Post

TYPE C - CONTROLLER W/ UPS

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	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	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

DEPTH 4'-0" (1.2m)

4'-0" (1.2m)

- 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 nm) 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 most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

COUNTY TOTAL SHEE SHEETS NO.

CONTRACT NO. 60W37

62 13

COOK

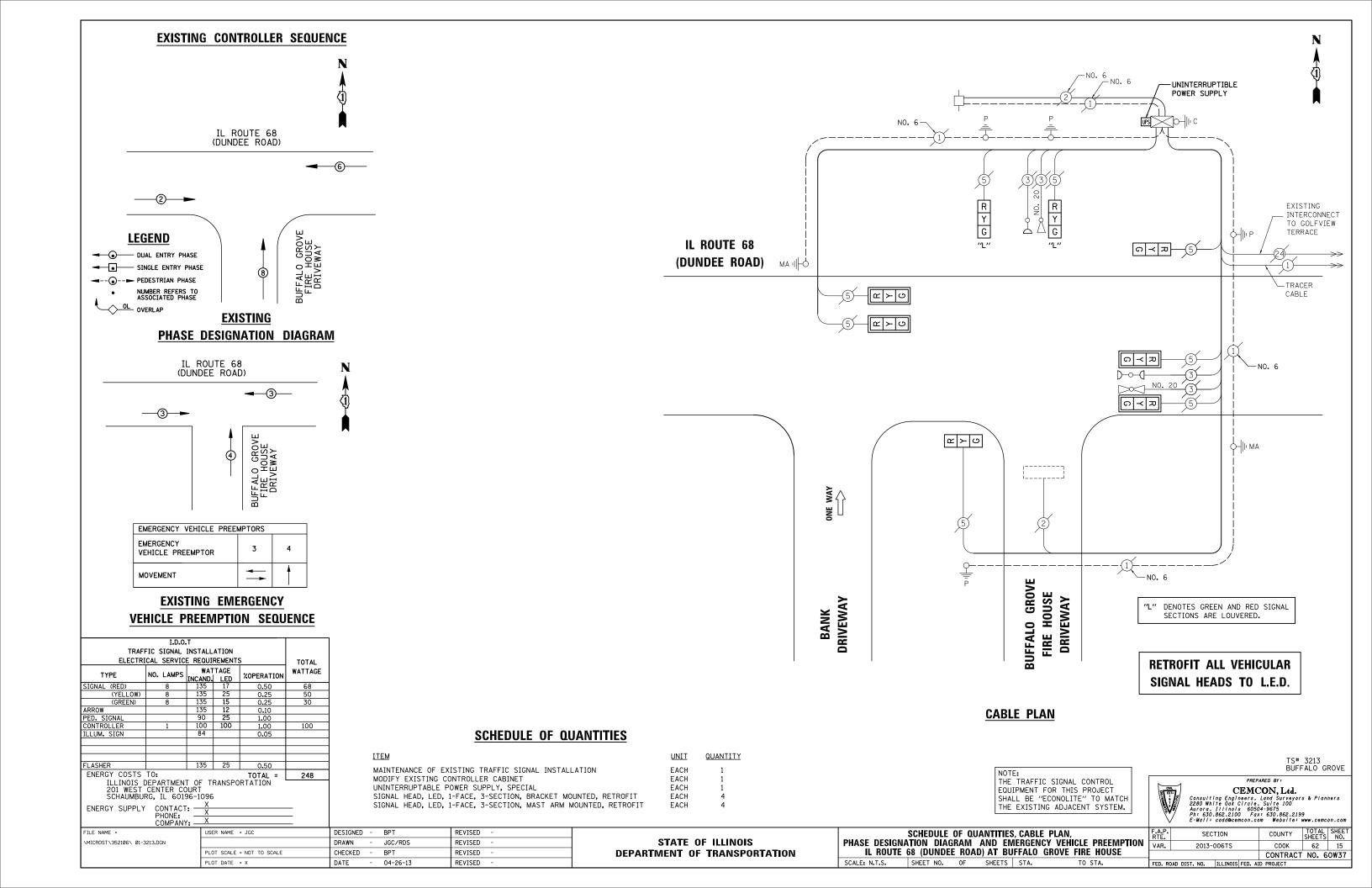
FILE NAME = U	JSER NAME = kanthaphixaybo	DESIGNED	- DAG	REVISED	-
c:\pw_work\PWIDOT\KANTHAPHIXAYBC\dØ1126 4\	traffic_legend_v7.dgn	DRAWN	- BC(REVISED	-
P	PLOT SCALE = 20.0000 '/ IN.	CHECKED	- DAO	REVISED	-
P	PLDT DATE = 10/6/2009	DATE	- 10/28/09	REVISED	-

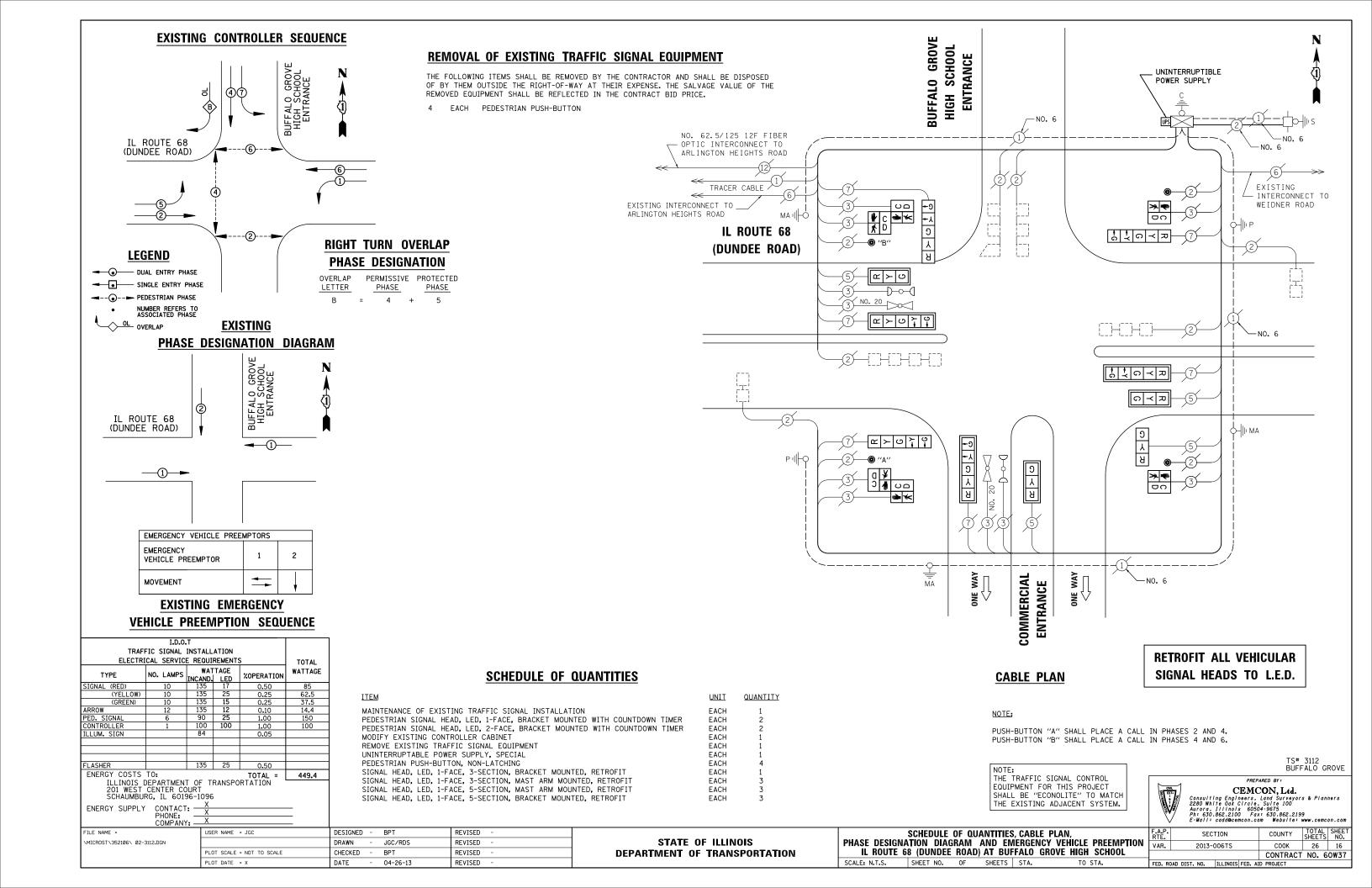
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

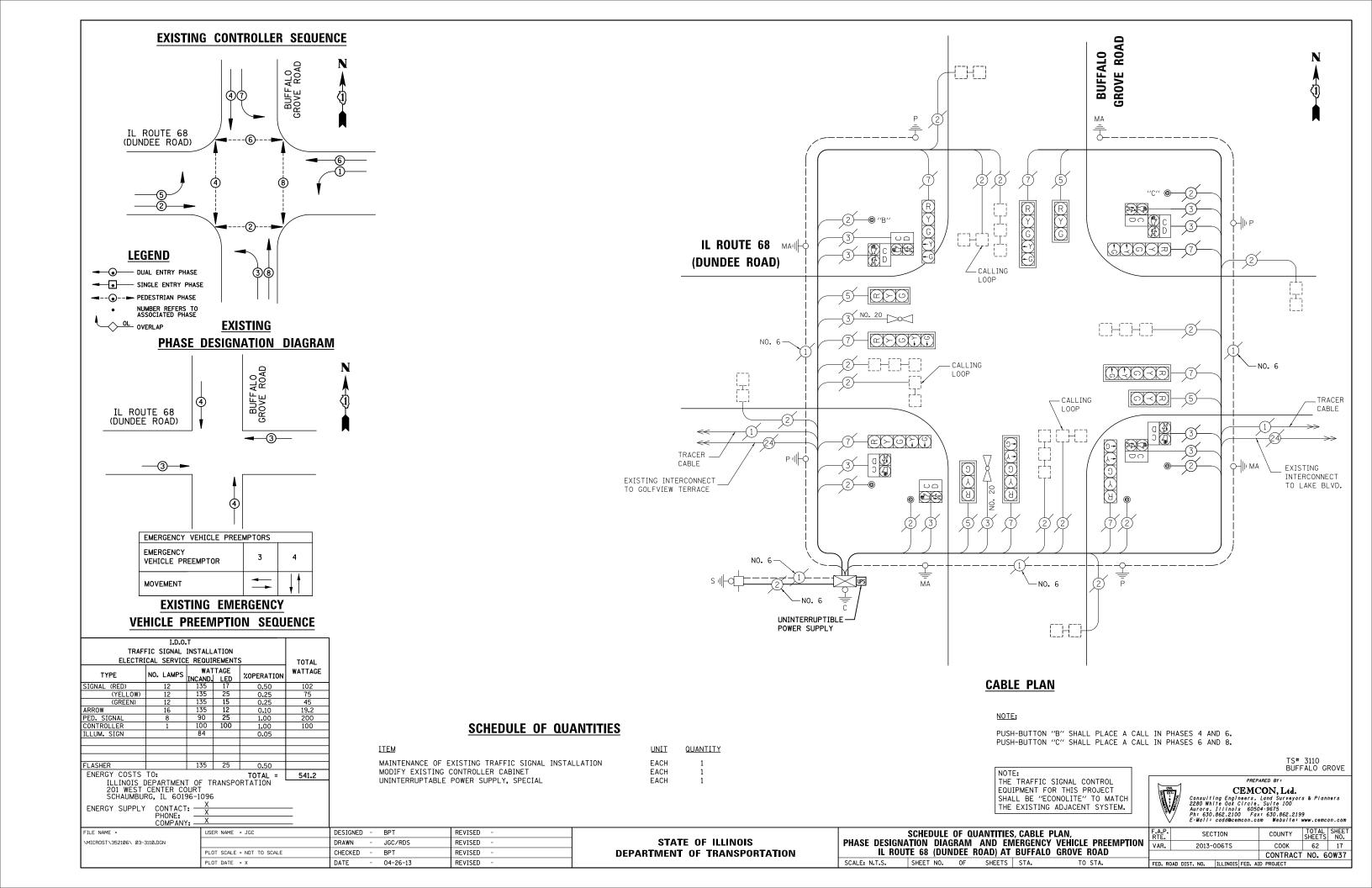
	DIS	RICT 1		F.A.P. RTE.	SECTION	
l standaf	RD TRAFFIC	SIGNAL DE	SIGN DETAIL	C VAR.	2013-006TS	
JIANDAI	(D TIVALLIC	SIONAL DE	SION DETAIL			
SCALE:	SHEET NO. 5 OF 6 SH	EETS STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FEI	ō.

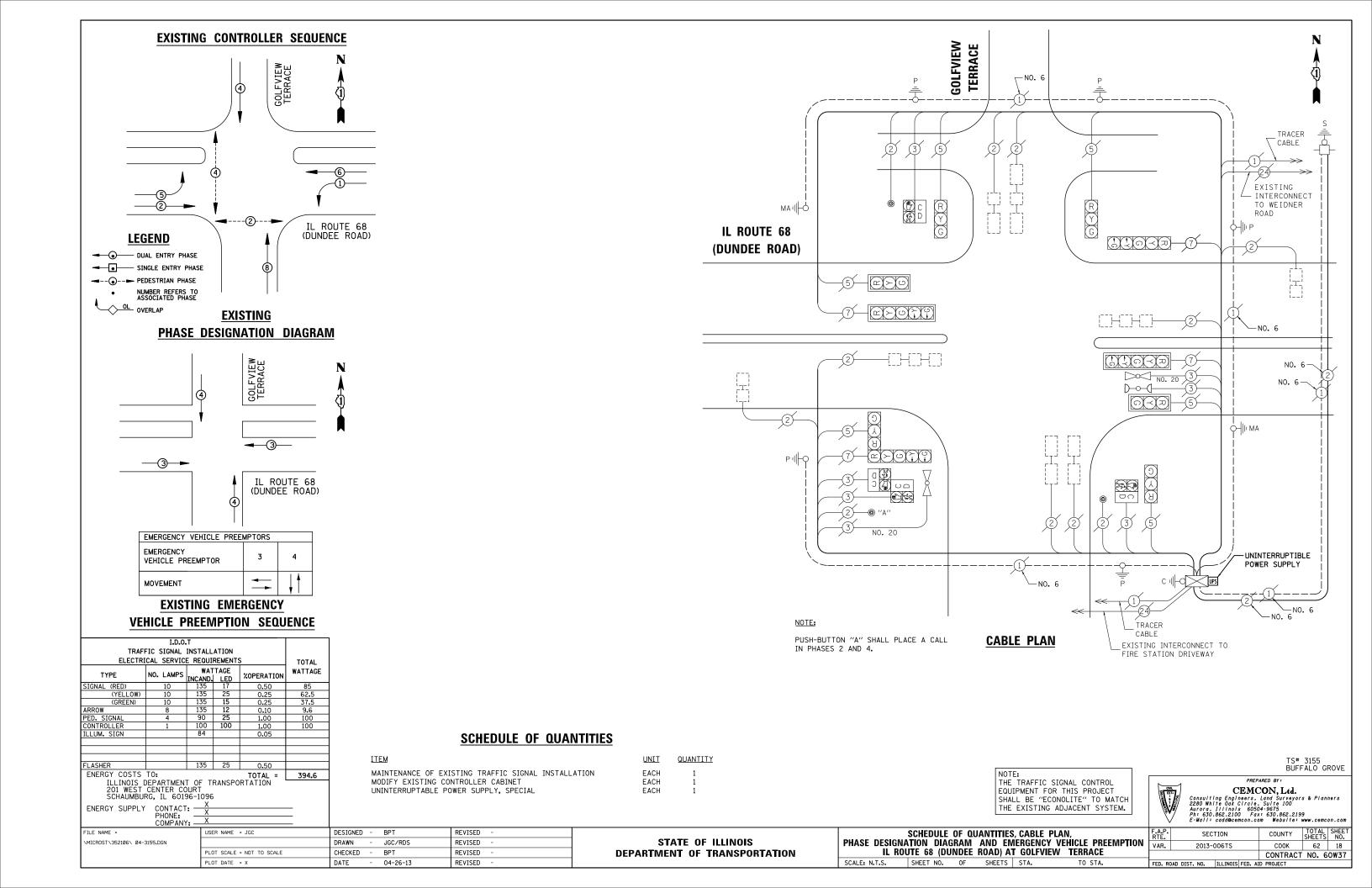
TRAFFIC SIGNAL LEGEND

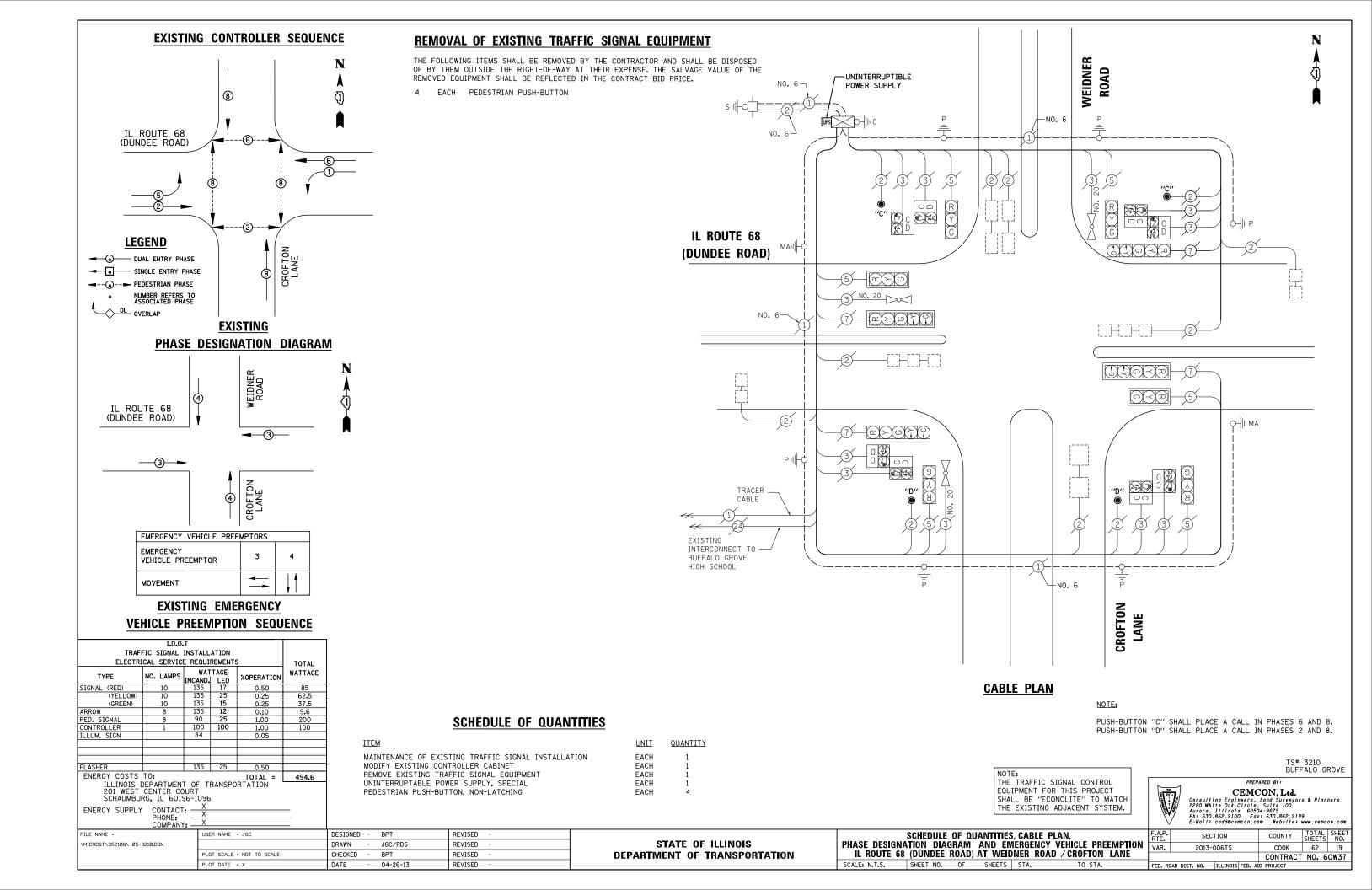
<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED
ONTROLLER CABINET	\bowtie R	\bowtie		EMERGENCY VEHICLE LIGHT DETECTOR	R≪	\bowtie	~	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
NILROAD CONTROL CABINET				CONFIRMATION BEACON	R_{o-0}	0-()	•-(~	
MMUNICATIONS CABINET	C C	ECC	СС	HANDHOLE	R			COAXIAL CABLE		— <u>(c)</u>	<u> </u>
STER CONTROLLER		EMC	MC		D			VENDOR CABLE FOR CAMERA		€ E	
STER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	K H	H	H				
INTERRUPTIBLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	"\S\\\ R		0	COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u>—</u> 6—	_6_
RVICE INSTALLATION, POLE OR (G) GROUND MOUNT	- <u>R</u>	-□ ^P	<u>-</u> ■	JUNCTION BOX GALVANIZED STEEL CONDUIT	W	<u> </u>	<u> </u>	FIBER OPTIC CABLE NO. 62.5/125, MM12F		— <u>(12</u> F)—	
LEPHONE CONNECTION POLE OR (G) GROUND MOUNT	R	P	P	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	P			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		<u>—24F</u> —	(24F)
EEL MAST ARM ASSEMBLY AND POLE	R	0	•	AND CABLE						,	
UMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		-	——
EEL COMBINATION MAST ARM	R _O ¤	0->	•	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS)		,	
SEMBLY AND POLE WITH LUMINAIRE	R			SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		C	^C →
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH PTZ CAMERA	PTZ	PTZ	PTZ	INTERSECTION ITEM		I	IP	OR (S) SERVICE		·	·
GNAL POST	R	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
MPORARY WOOD POLE (CLASS 5 OR TTER) 45 FOOT (13.7m) MINIMUM	R ⊗	\otimes		RELOCATE ITEM	KL ,			STEEL MAST ARM POLE AND	_RMF		
	R	>	>	ABANDON ITEM 12" (300mm) TRAFFIC SIGNAL SECTION	А	R	R	FOUNDATION TO BE REMOVED	O		
Y WIRE	R	>	<u>→</u>	12 (JOURNAL SECTION				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
CNAL HEAD CONSTRUCTION STACES		7	-	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		(R)					
CHARL HEAD CONSTRUCTION STAGES IMBERS INDICATE THE CONSTRUCTION STAGES			→ ²	TELLOW AND GREEN TRAFFIC SIGNAL FACE		Ö		STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O→¤———		
SNAL HEAD WITH BACKPLATE	+₽ ^R	+	+-			R	R	FOUNDATION TO BE REMOVED	0 4		
SNAL HEAD OPTICALLY PROGRAMMED		—⊳"p"	-▶ "P"	SIGNAL FACE		G	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF O		
ASHER INSTALLATION DENOTES SOLAR POWER)	R ○	O-'⊳''F''	←► "F"			4 9	← Y ← G	INTERSECTION & SAMPLING		[IS]	IS
DESTRIAN SIGNAL HEAD	R	-0	4				R	(SYSTEM) DETECTOR			
	-∐ R	Ц	•	SIGNAL FACE WITH BACKPLATE.			Y	SAMPLING (SYSTEM) DETECTOR		S	S
DESTRIAN PUSHBUTTON DETECTOR	©	(6)	©	"P" INDICATES PROGRAMMED HEAD		G TY	G ◆Y	EXISTING INTERSECTION LCOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	ΓOR	[P]	
CESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	© APS	@APS	APS				 G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		Ŷ _ Ŷ	
UMINATED SIGN	R		•			′′P′′	′′P′′	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	ror .	ÎPPÎ	
O LEFT TURN"			\(\right\)	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
LUMINATED SIGN O RIGHT TURN''	R			12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		. ⊸ [PS]	← [PS]
TECTOR LOOP, TYPE I		[-]		INTERNATIONAL SYMEOL, OUTLINED				The same same end (storem) between		<u> </u>	
		e	□ P I	12" (300mm) PEDESTRIAN SIGNAL HEAD			•	RAILROAD	CANADA	ni e	
REFORMED DETECTOR LODP		J-4	↓ P↓	INTERNATIONAL SYMBOL, SOLID			*	NAILNUAD	O I IVID	ULO	
CROWAVE VEHICLE SENSOR	R M)	M	 M ■	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER			₽ C ★ D			EXISTING	PROPOSED
DEO DETECTION CAMERA	R [V](1	[Ŷħ	(V•	RADIO INTERCONNECT	 R ○	##**		RAILROAD CONTROL CABINET		R R	₽⋖
DEO DETECTION ZONE				MOTO INTERCONNECT		·		RAILROAD CANTILEVER MAST ARM		X OX X X	XeX X X
	R	шш		RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL		X o X	XOX
N, TILT, ZOOM CAMERA	PTZ	PTZ	PTZ	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		(5)					
RELESS DETECTOR SENSOR	RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE		X0X >	XOX
RELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		(1)	1	CROSSBUCK		≥	*
NAME = USER NAME = kanthaphixa	aybo DE	ESIGNED - DAG/BCK	REVISED	-				DISTRICT 1	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET
.work\PWIDOT\KANTHAPHIXAYBC\dð1126 4\traffic_legend_v7.dgn	DF	RAWN - BCK	REVISED	STATI	OF ILLINOIS	S		STANDARD TRAFFIC SIGNAL DESIGN DETAIL		2013-006TS	C00K 62

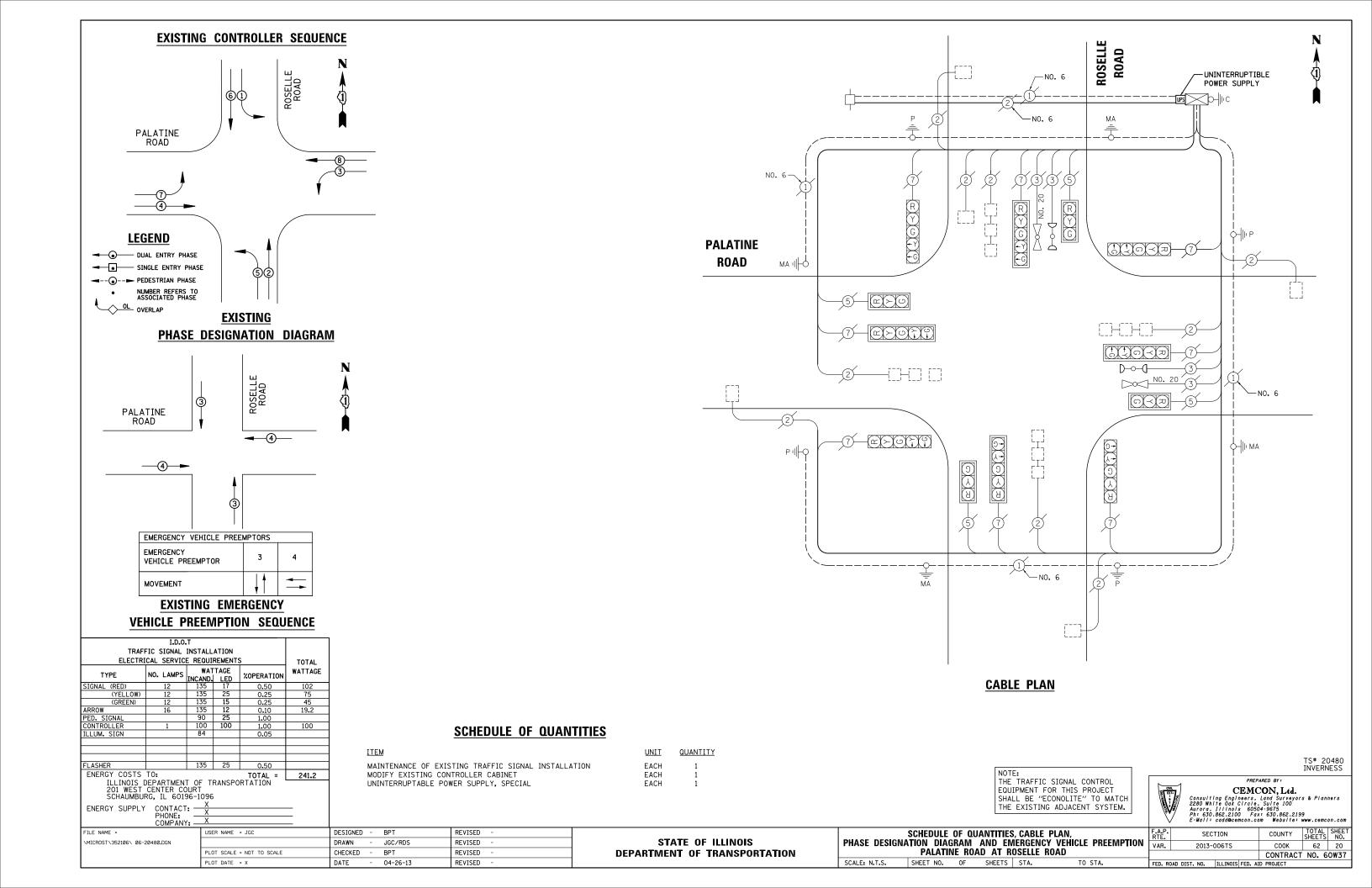


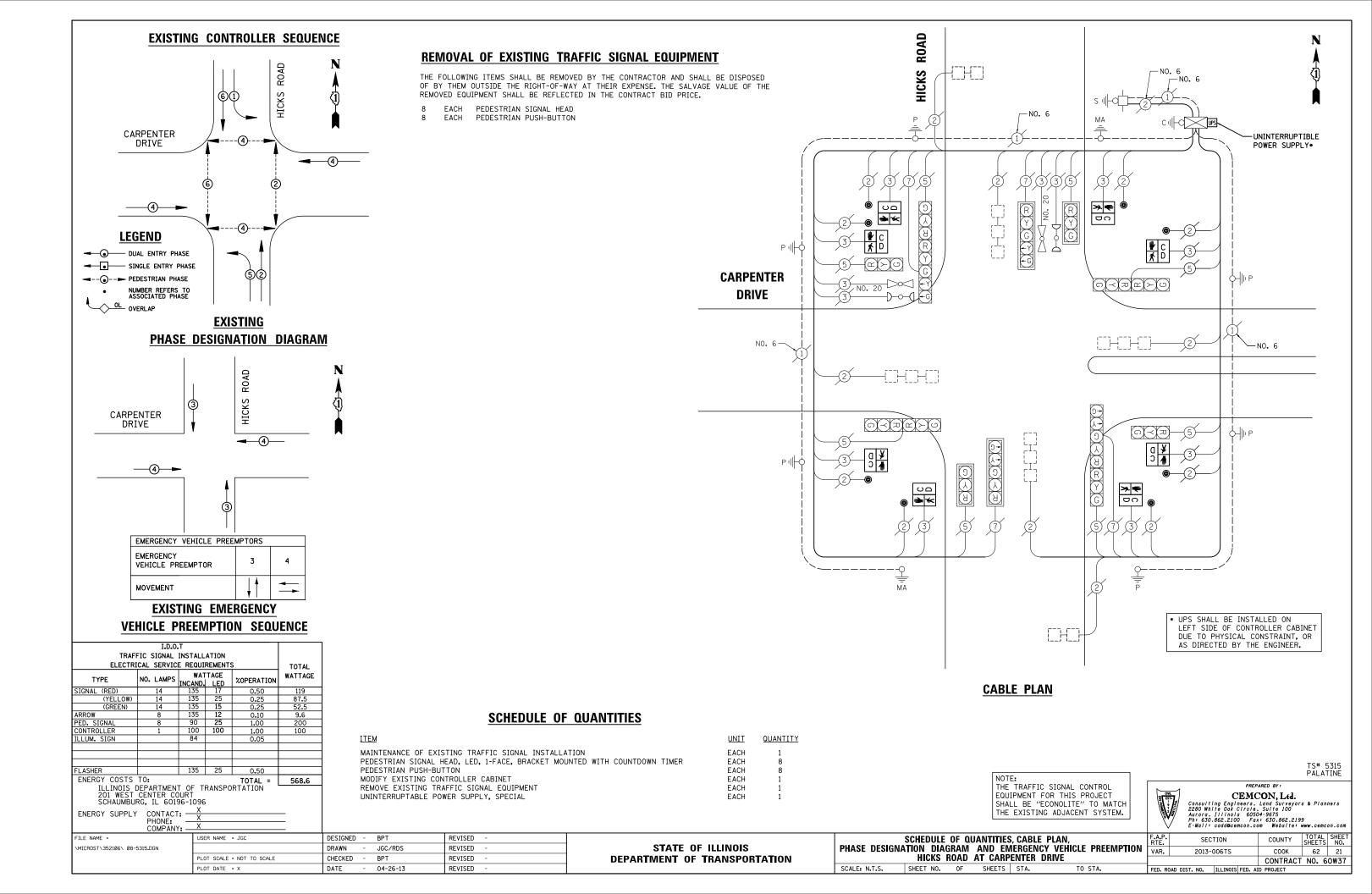


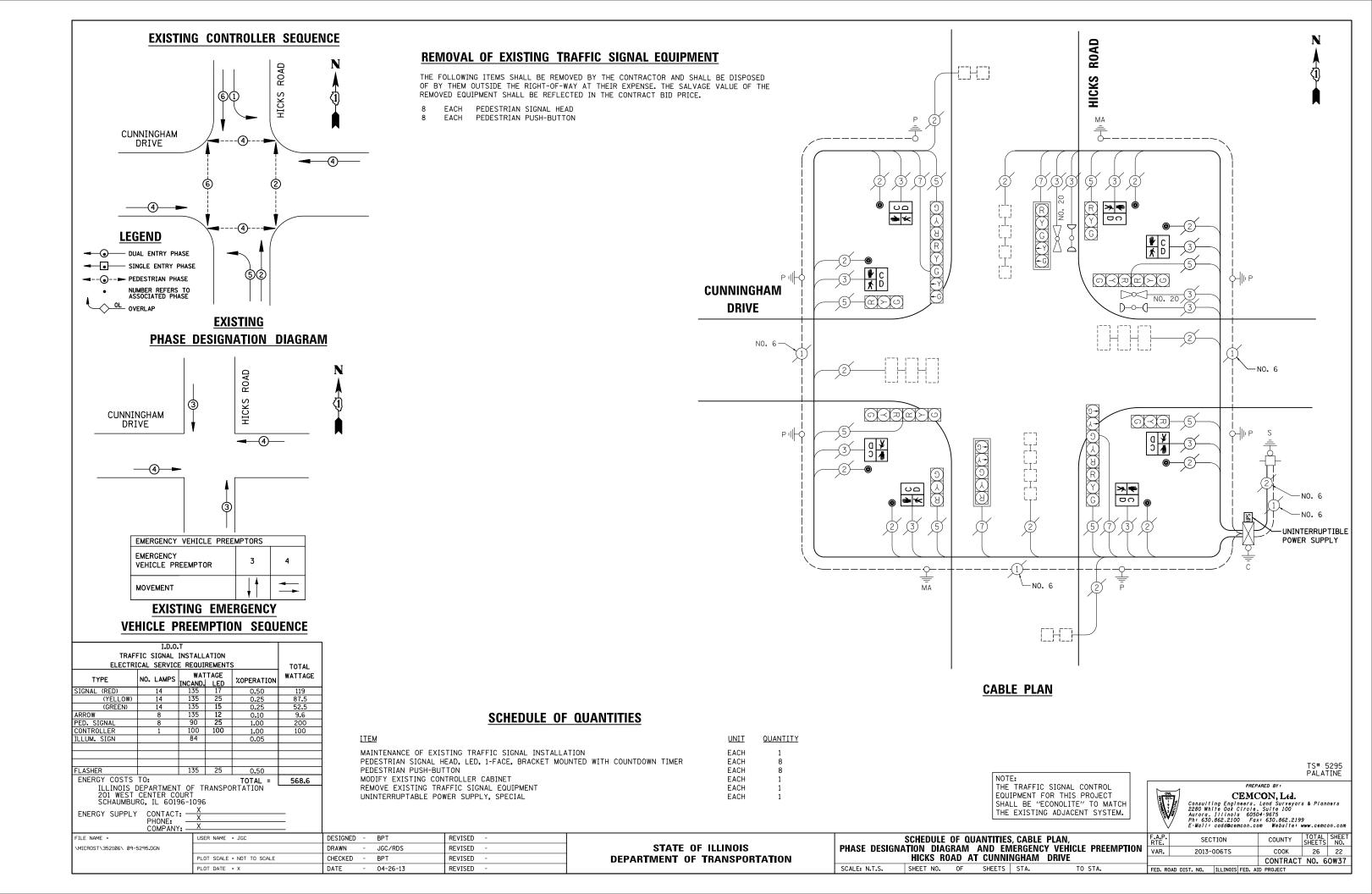


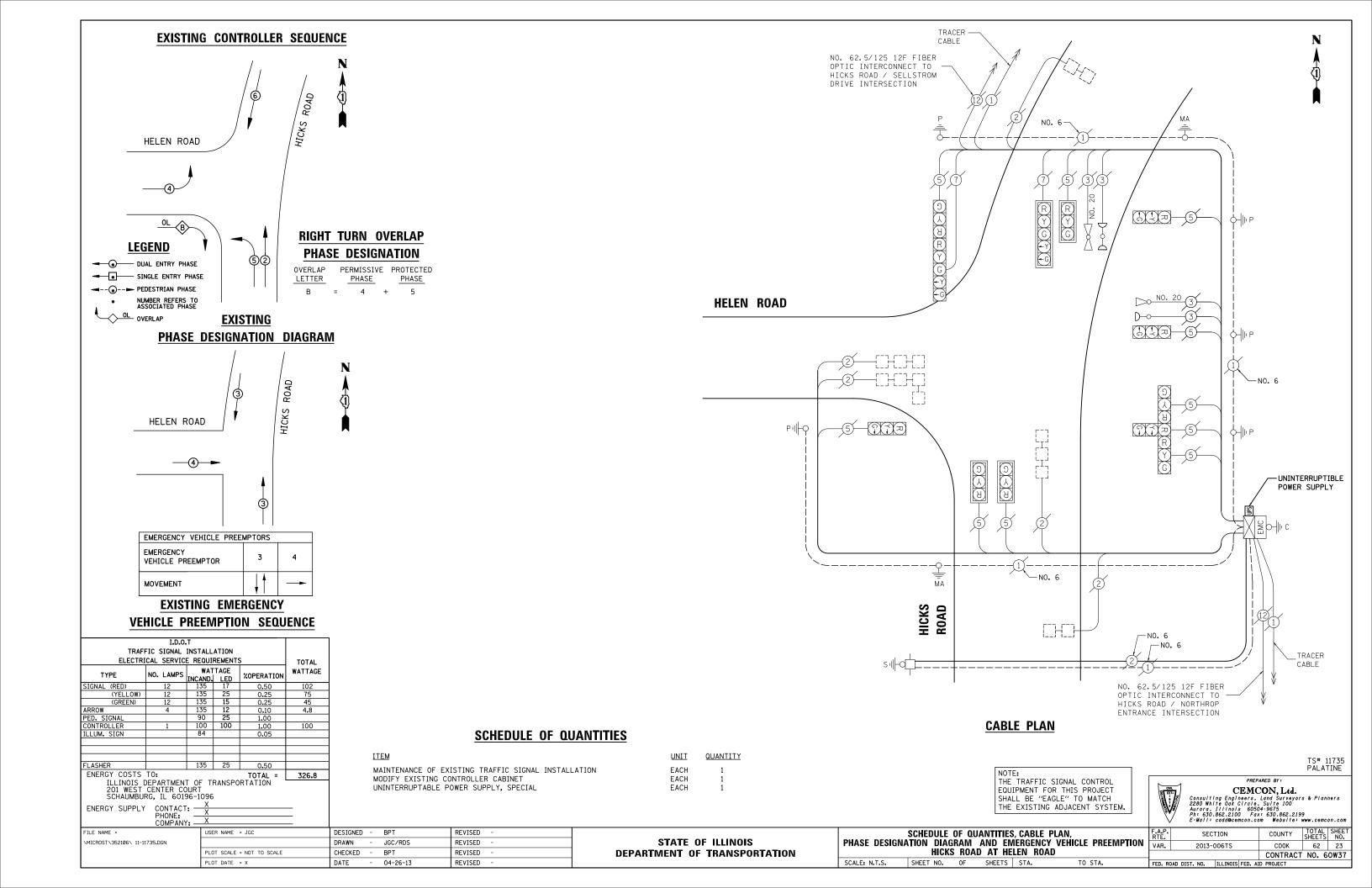


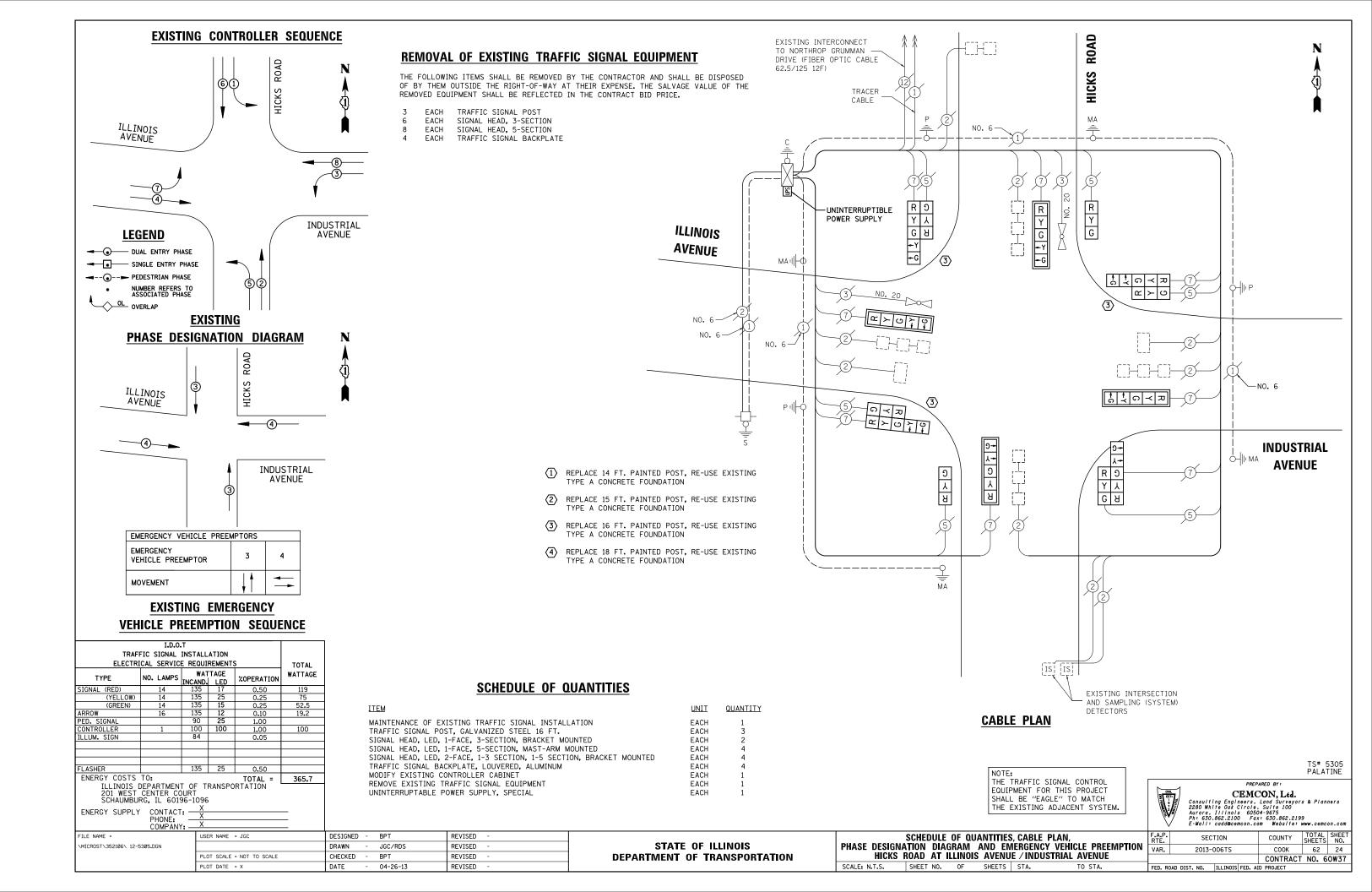


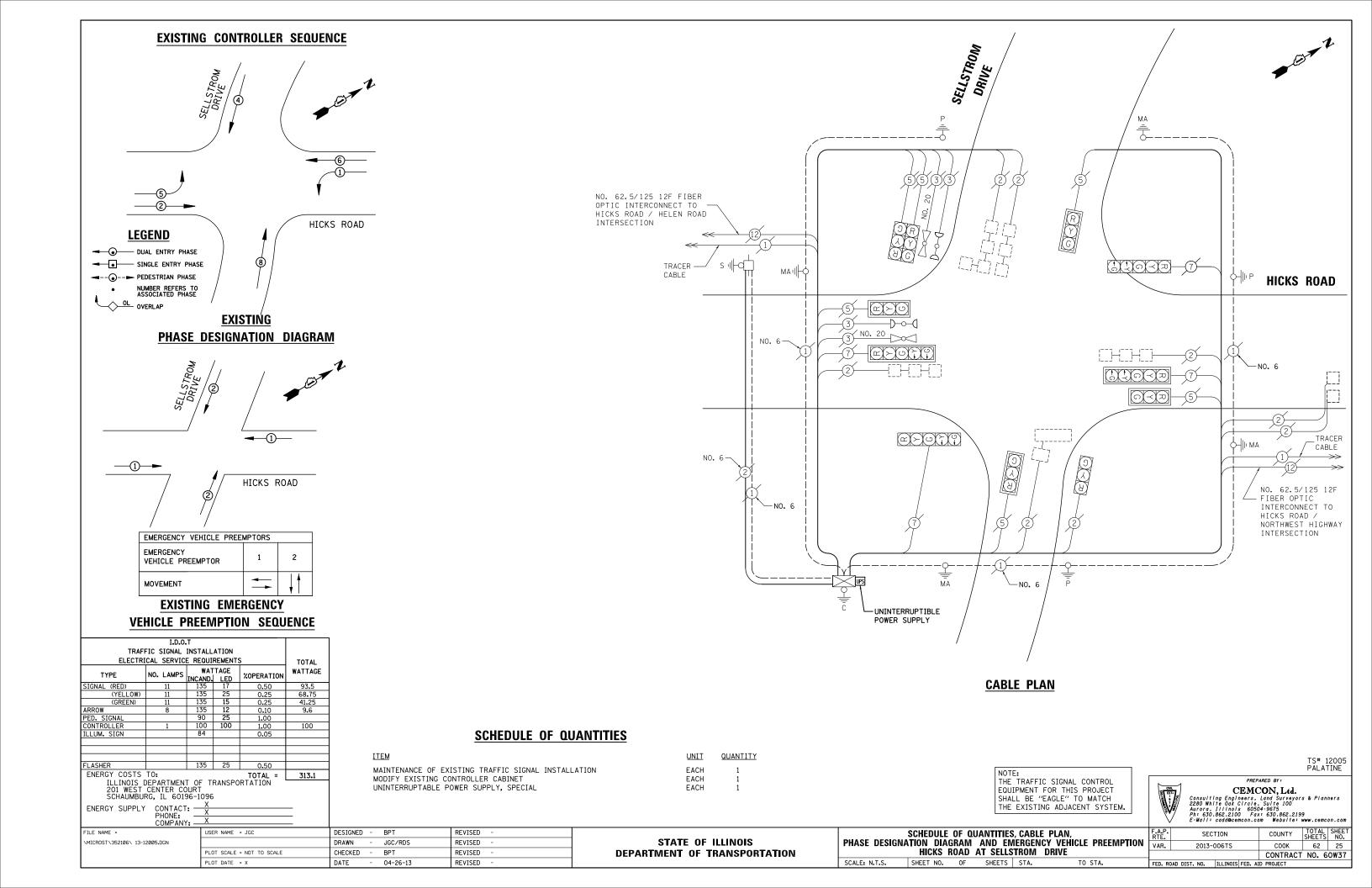


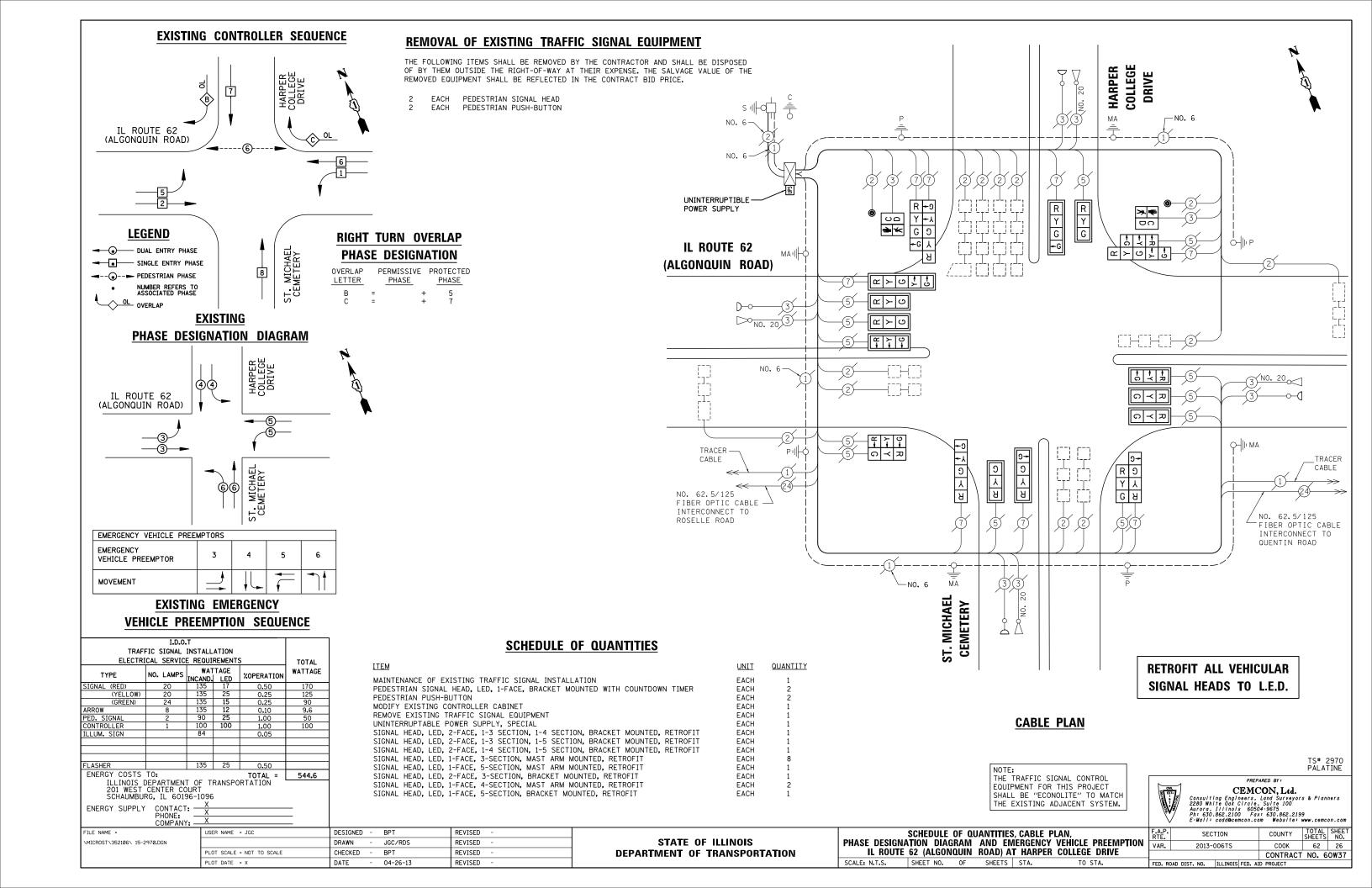


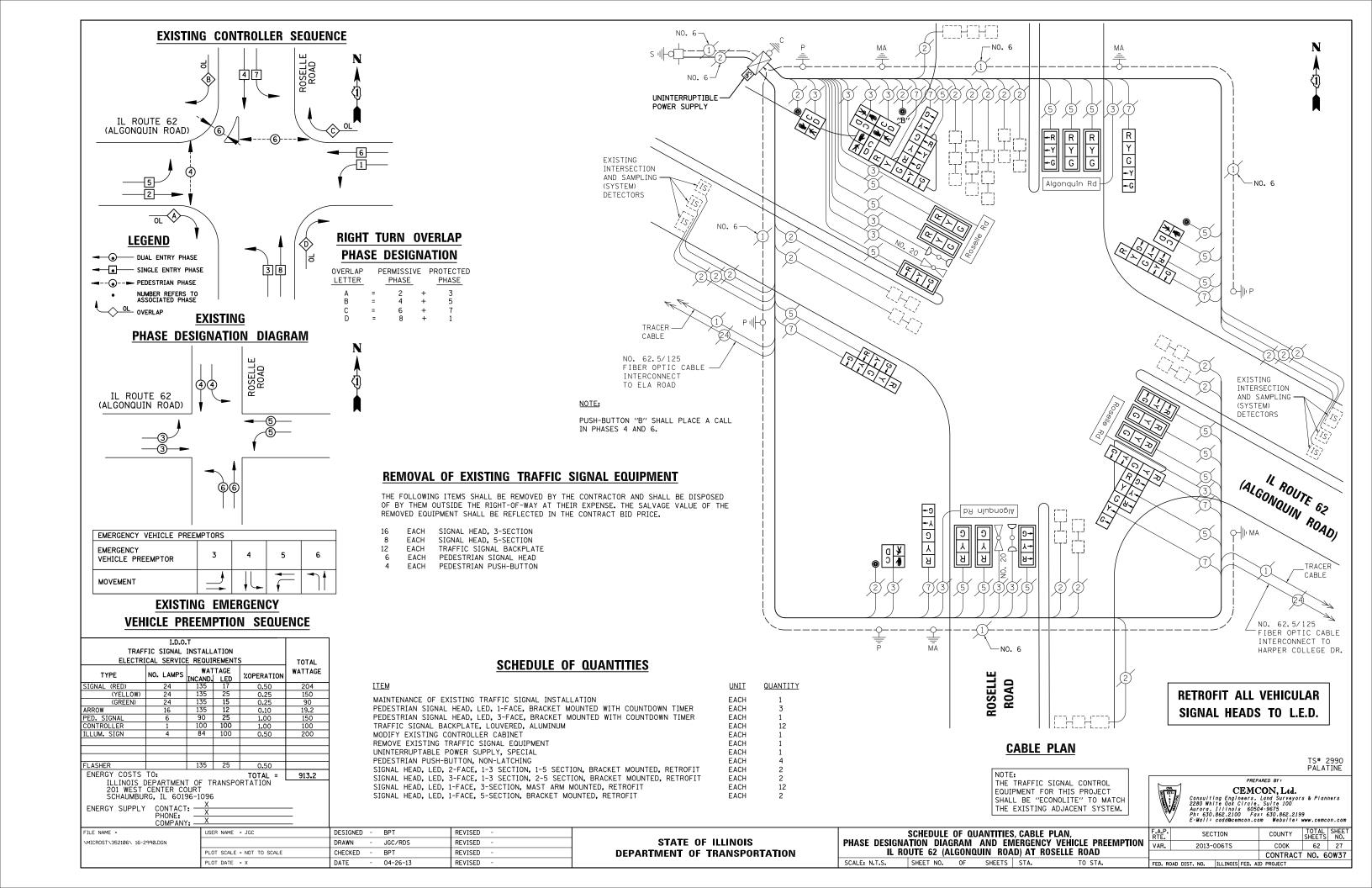


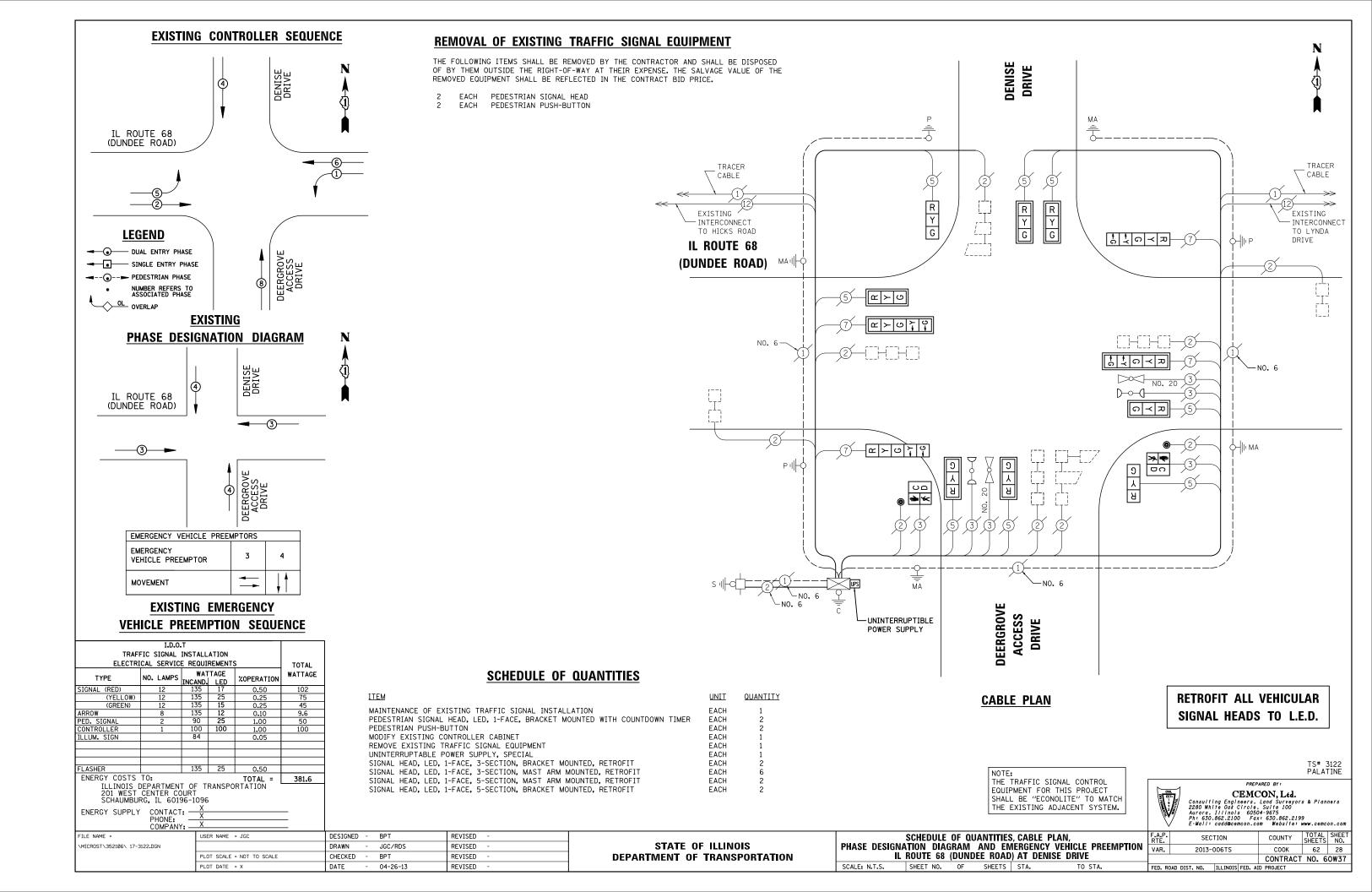


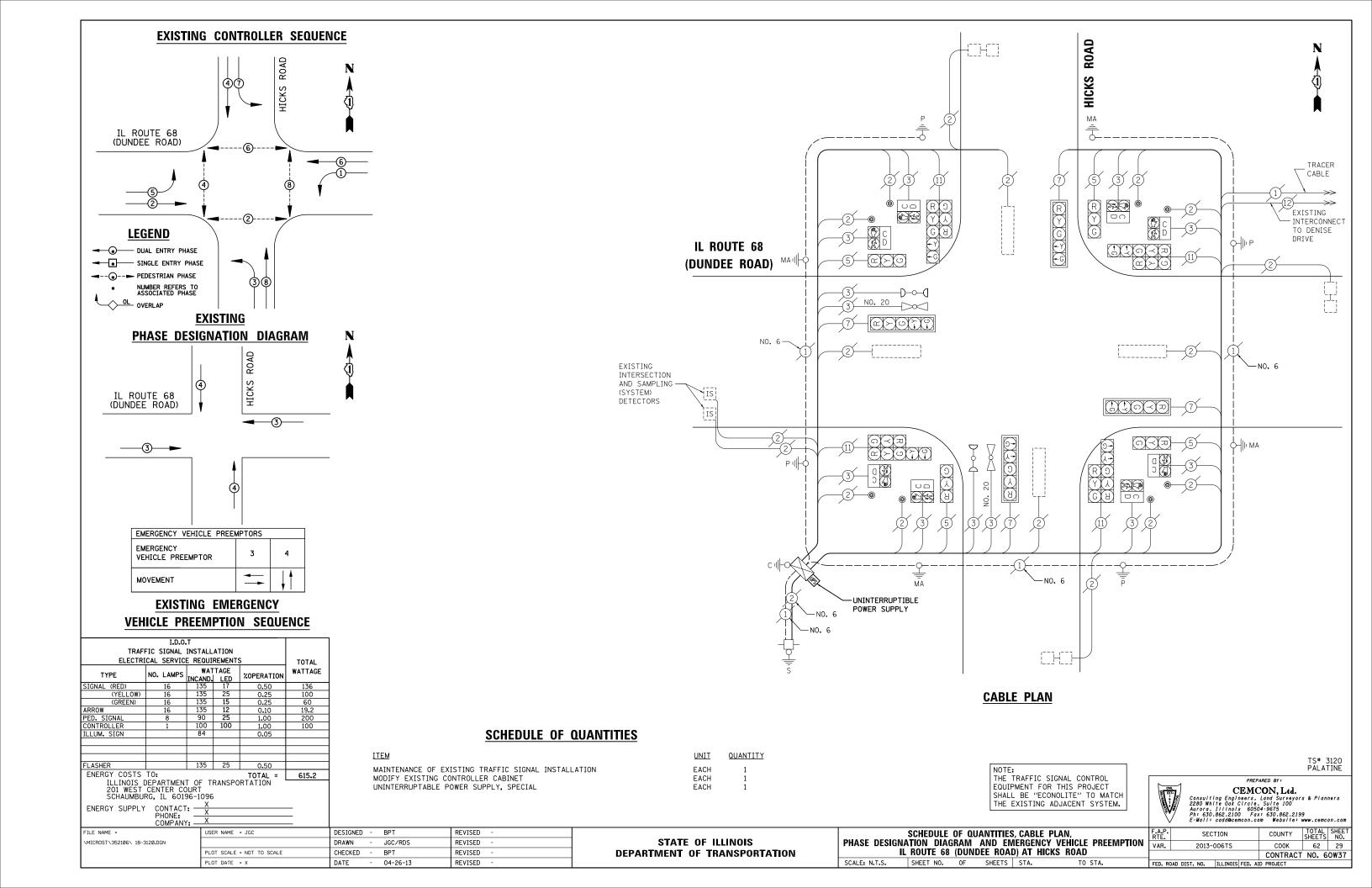


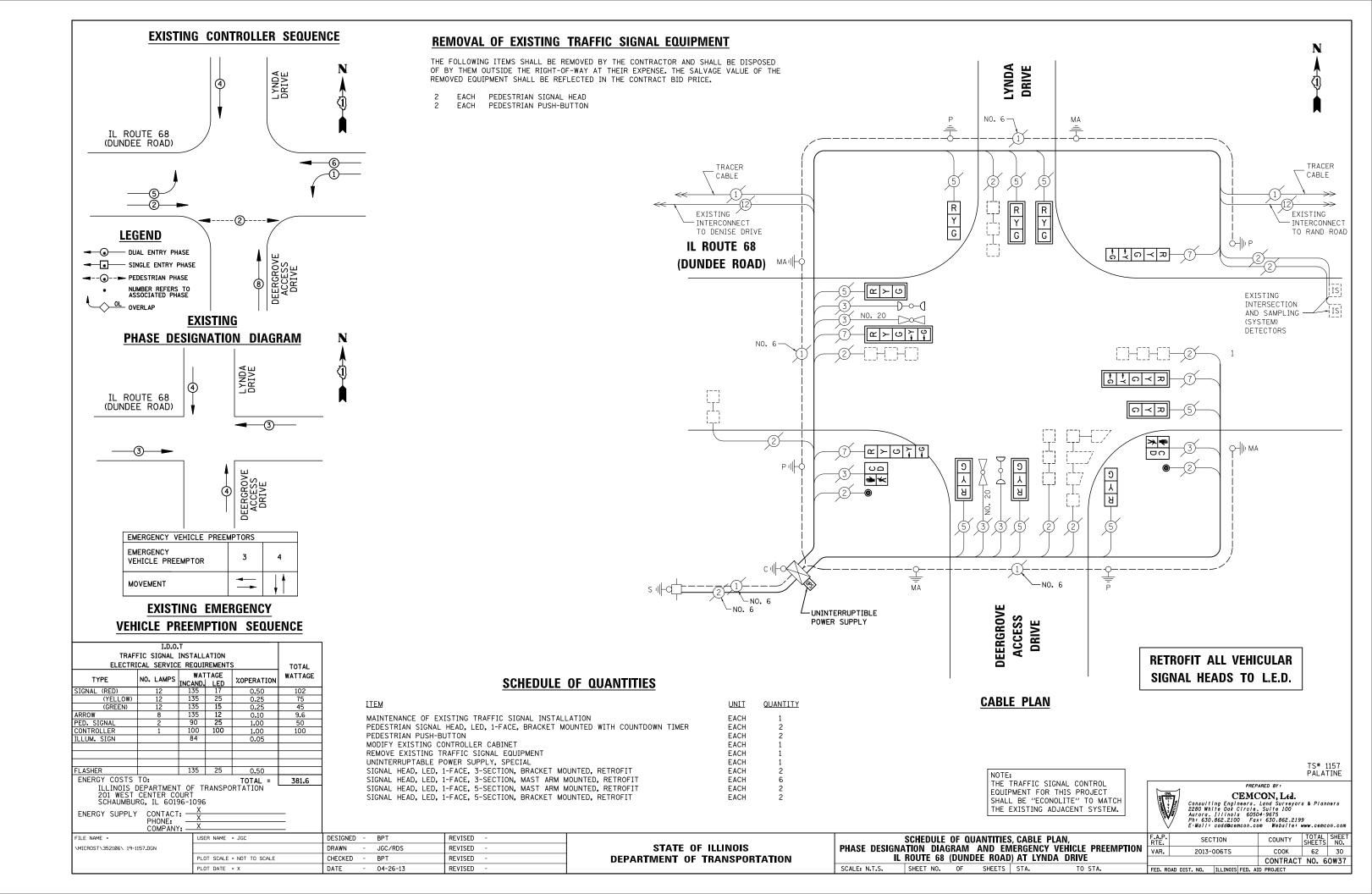


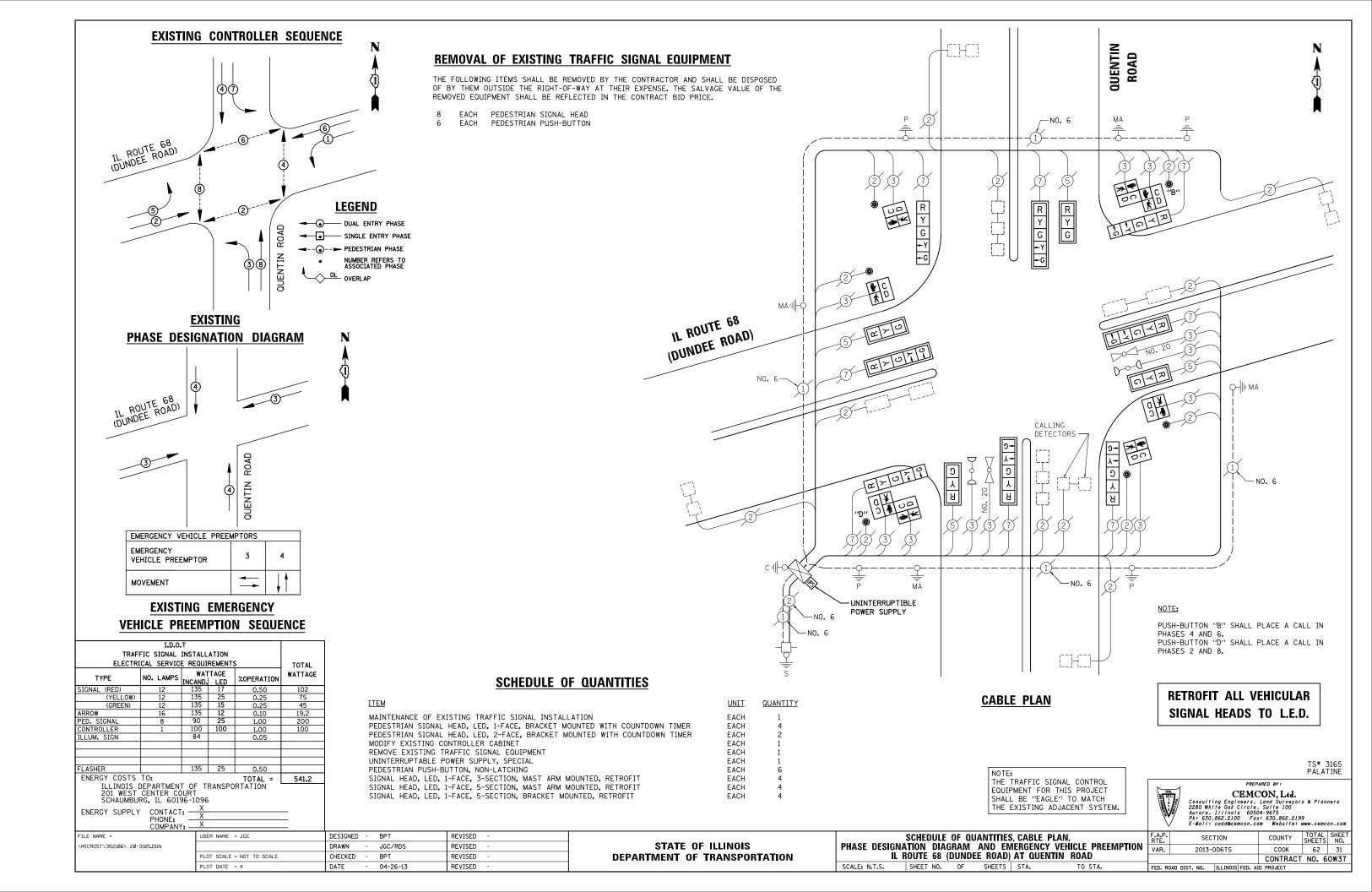


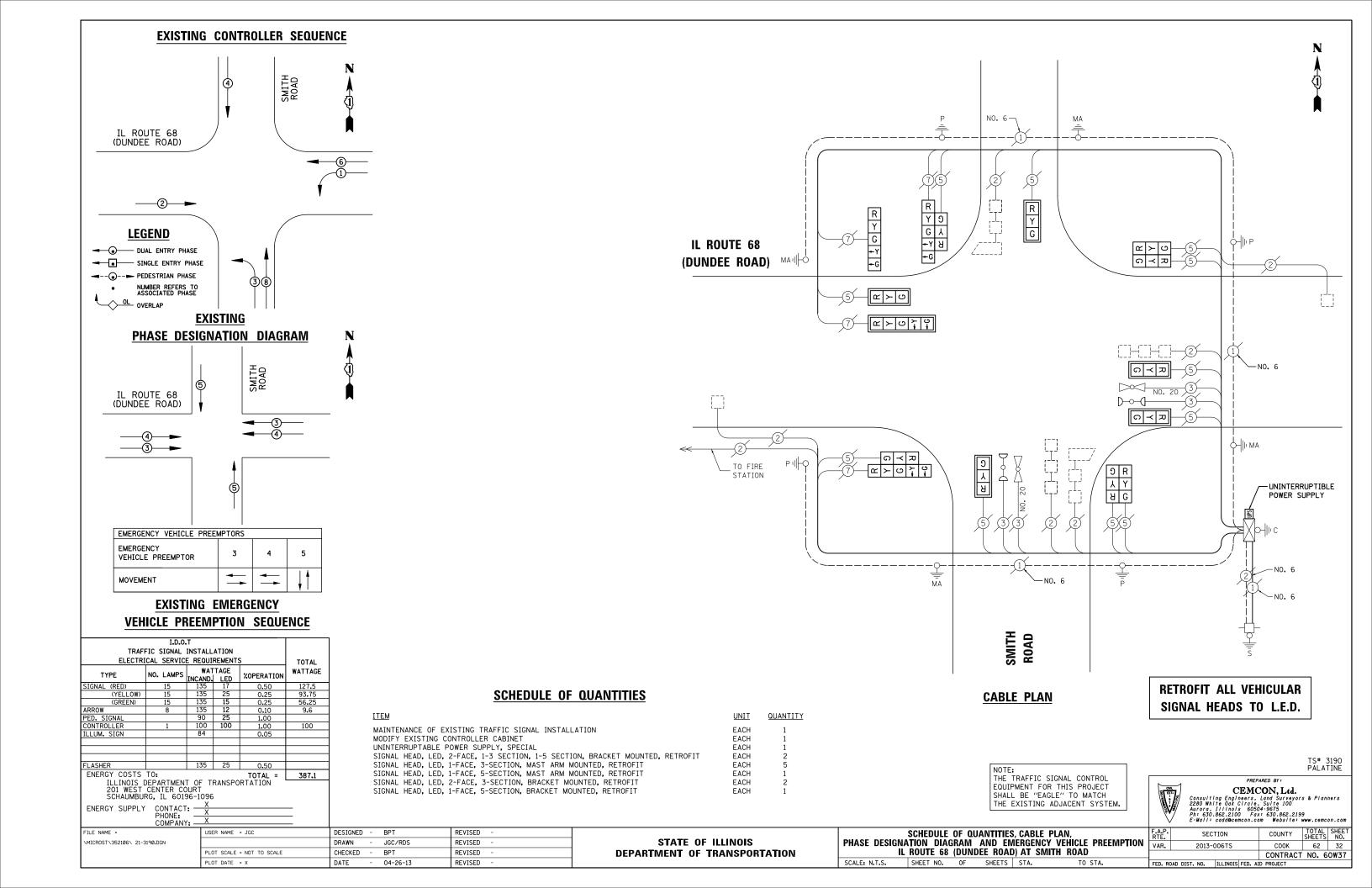


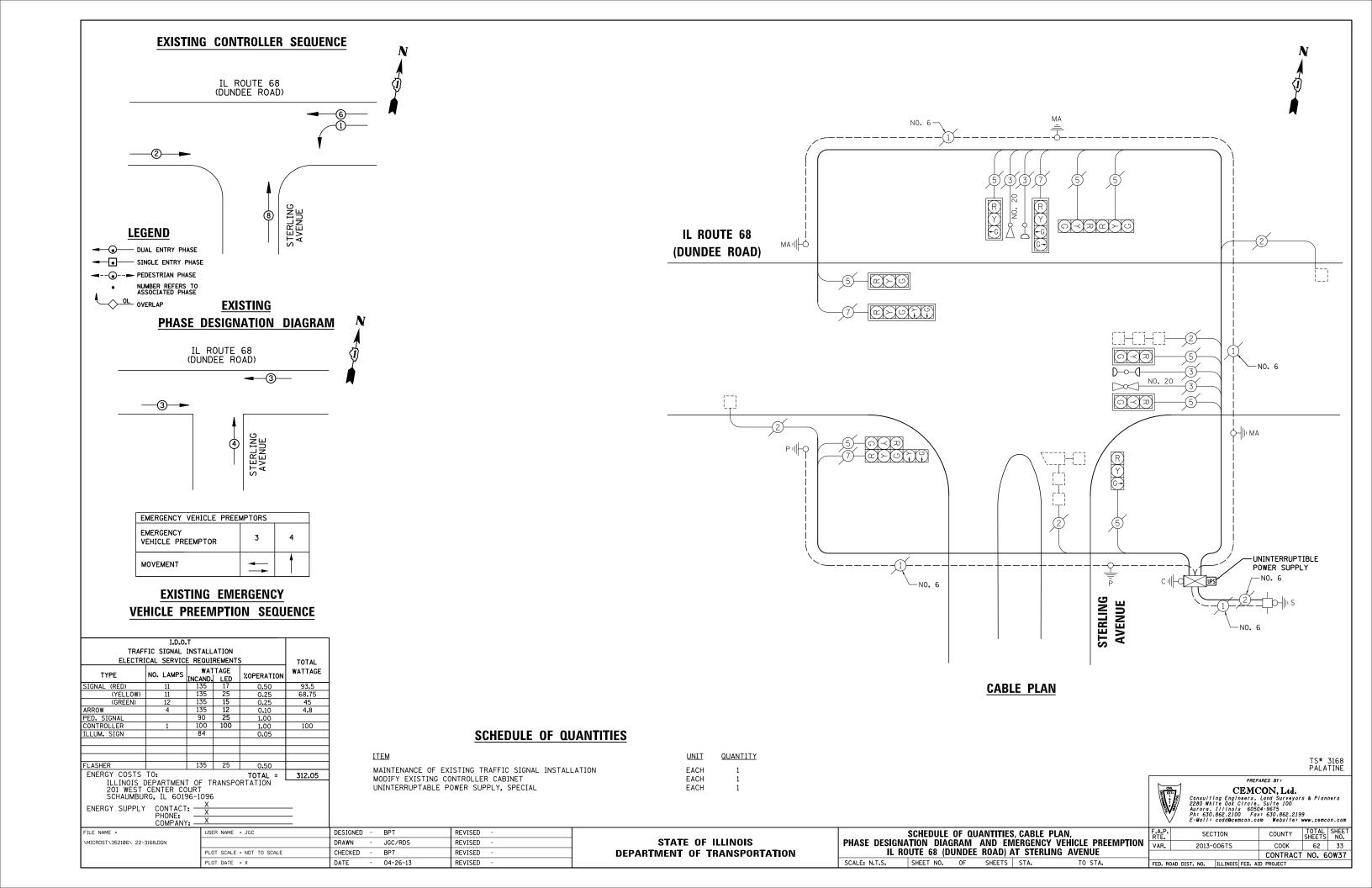


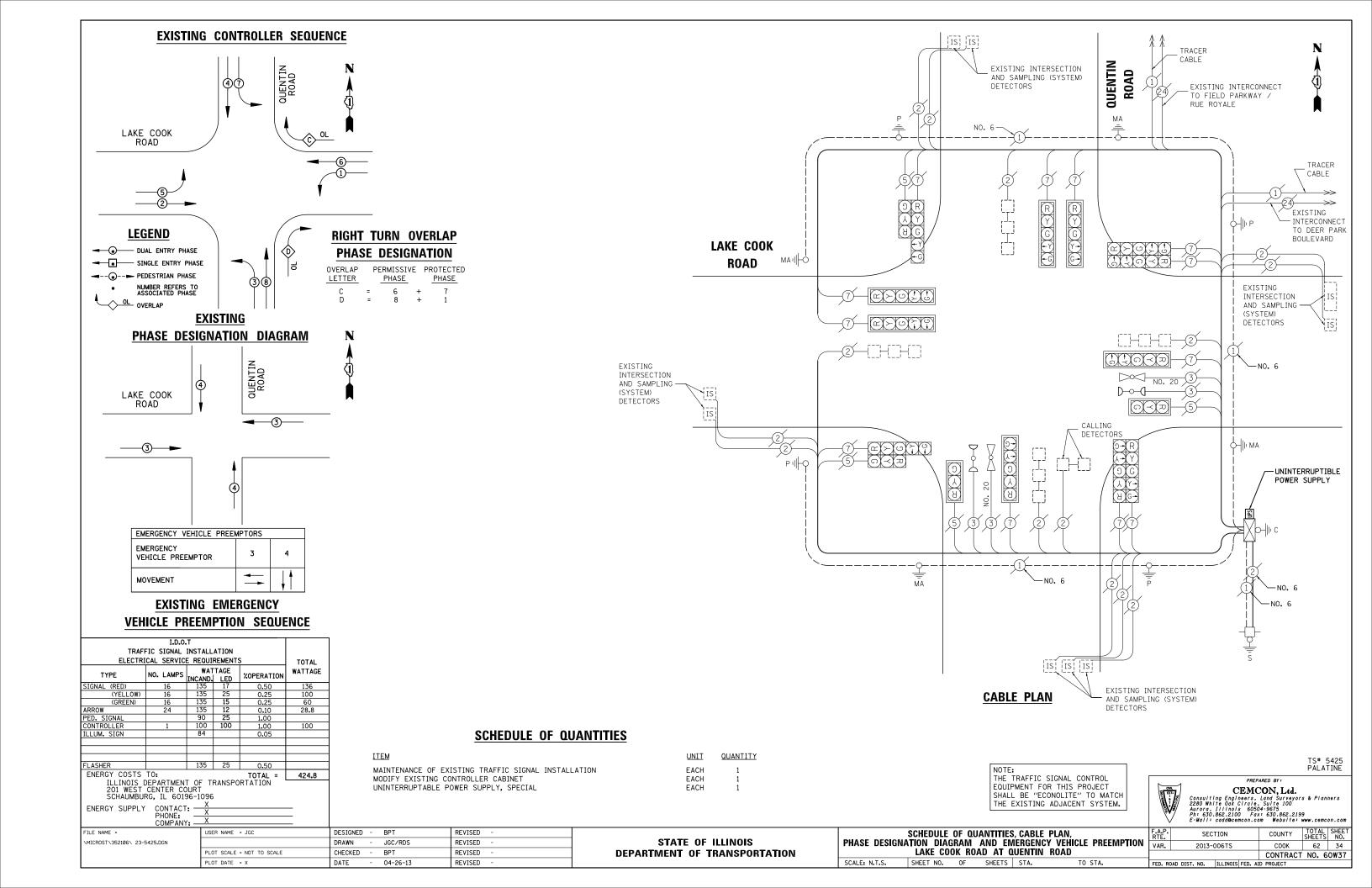


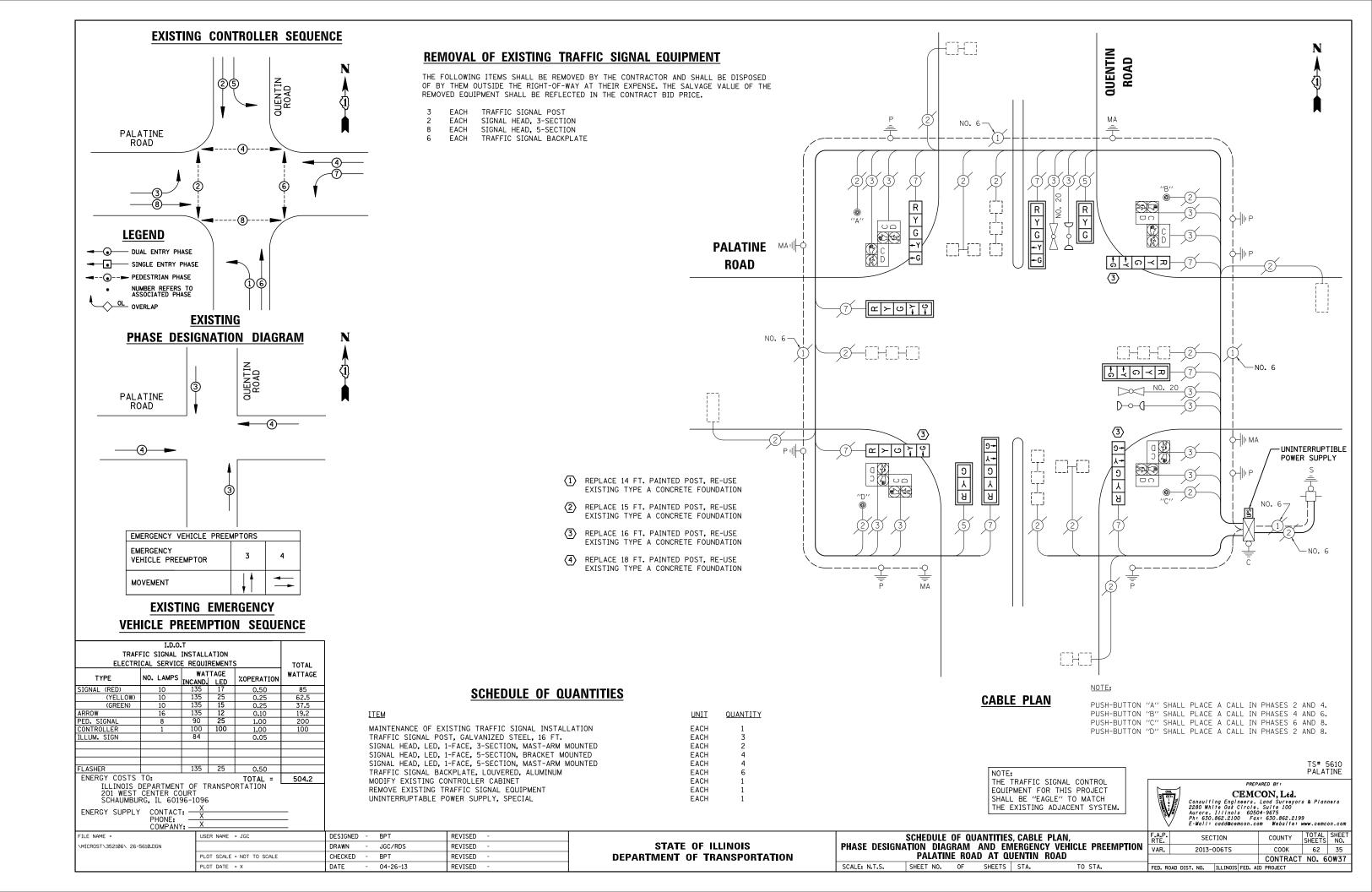


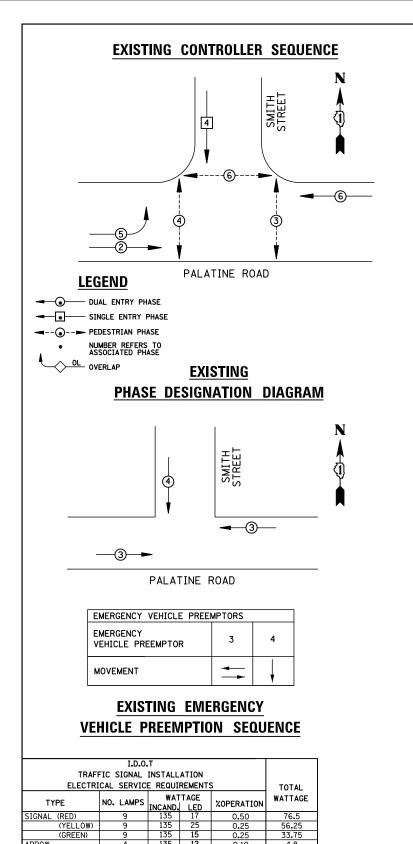












FLASHER

FILE NAME =

ENERGY SUPPLY

\MICROST\3521Ø6\ 27-14715.DGN

ENERGY COSTS TO:

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

USER NAME = JGC

PLOT DATE = X

PLOT SCALE = NOT TO SCALE

CONTACT: PHONE:

421.3

DESIGNED - BPT

JGC/RDS

04-26-13

DRAWN

DATE

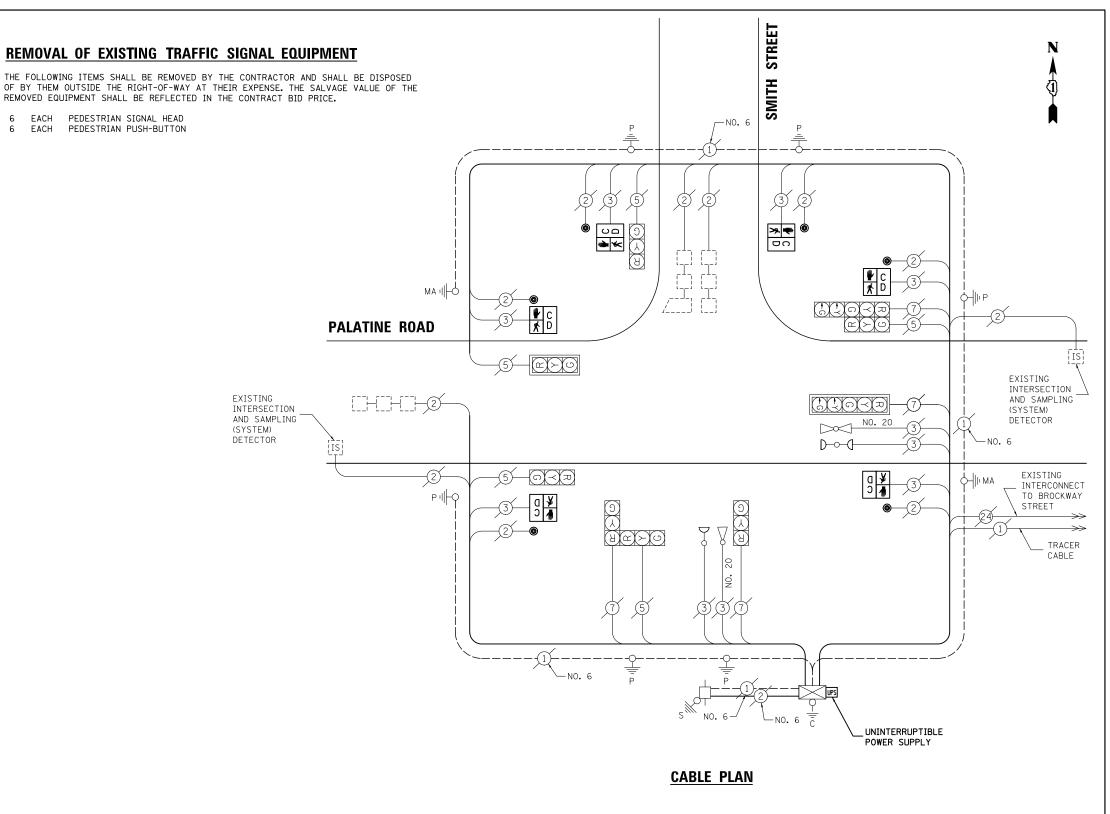
CHECKED

REVISED

REVISED

REVISED

REVISED



SCHEDULE OF QUANTITIES

6 EACH PEDESTRIAN SIGNAL HEAD 6 EACH PEDESTRIAN PUSH-BUTTON

ITEM	<u>UNIT</u>	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	6
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

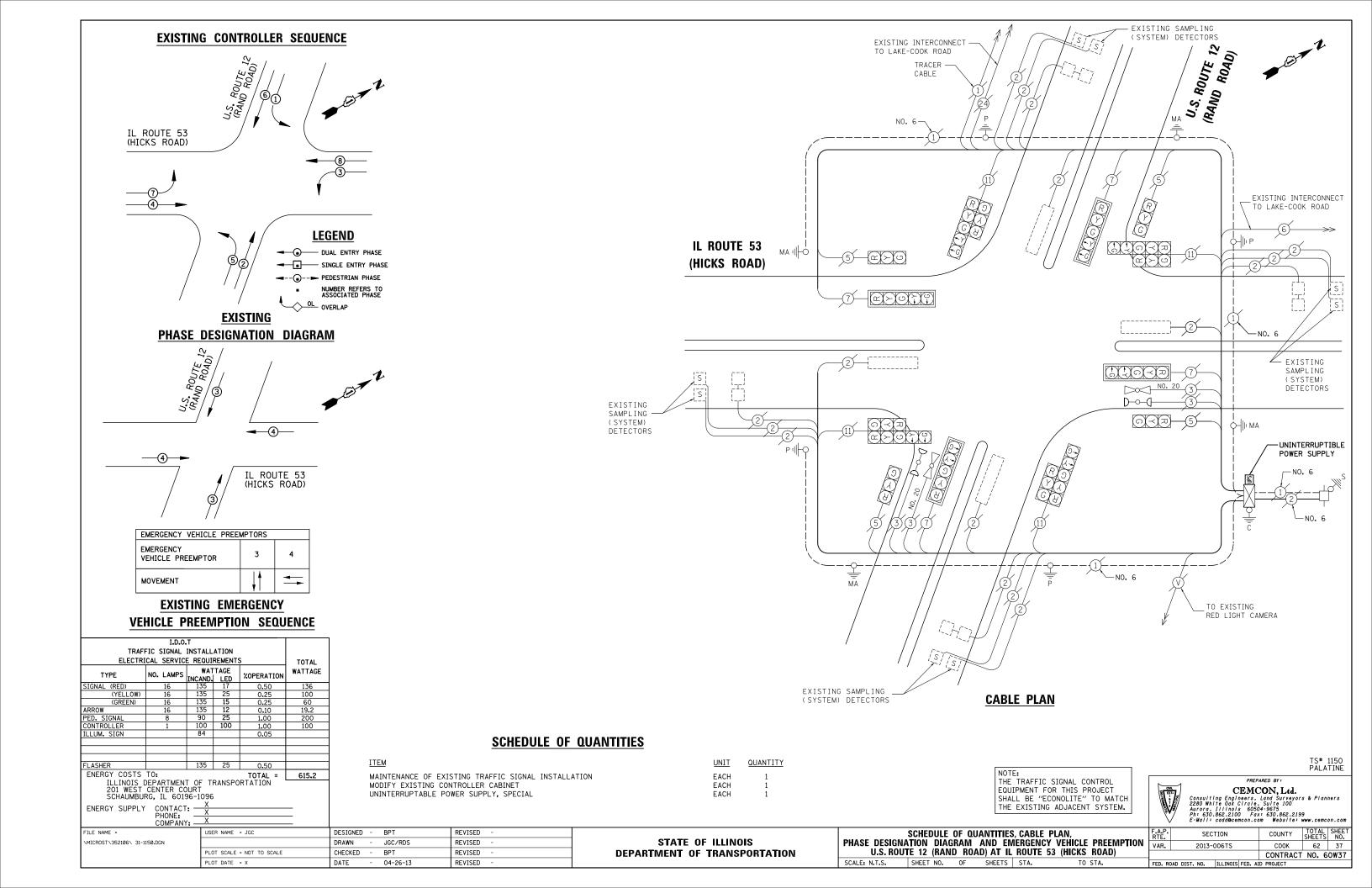
NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

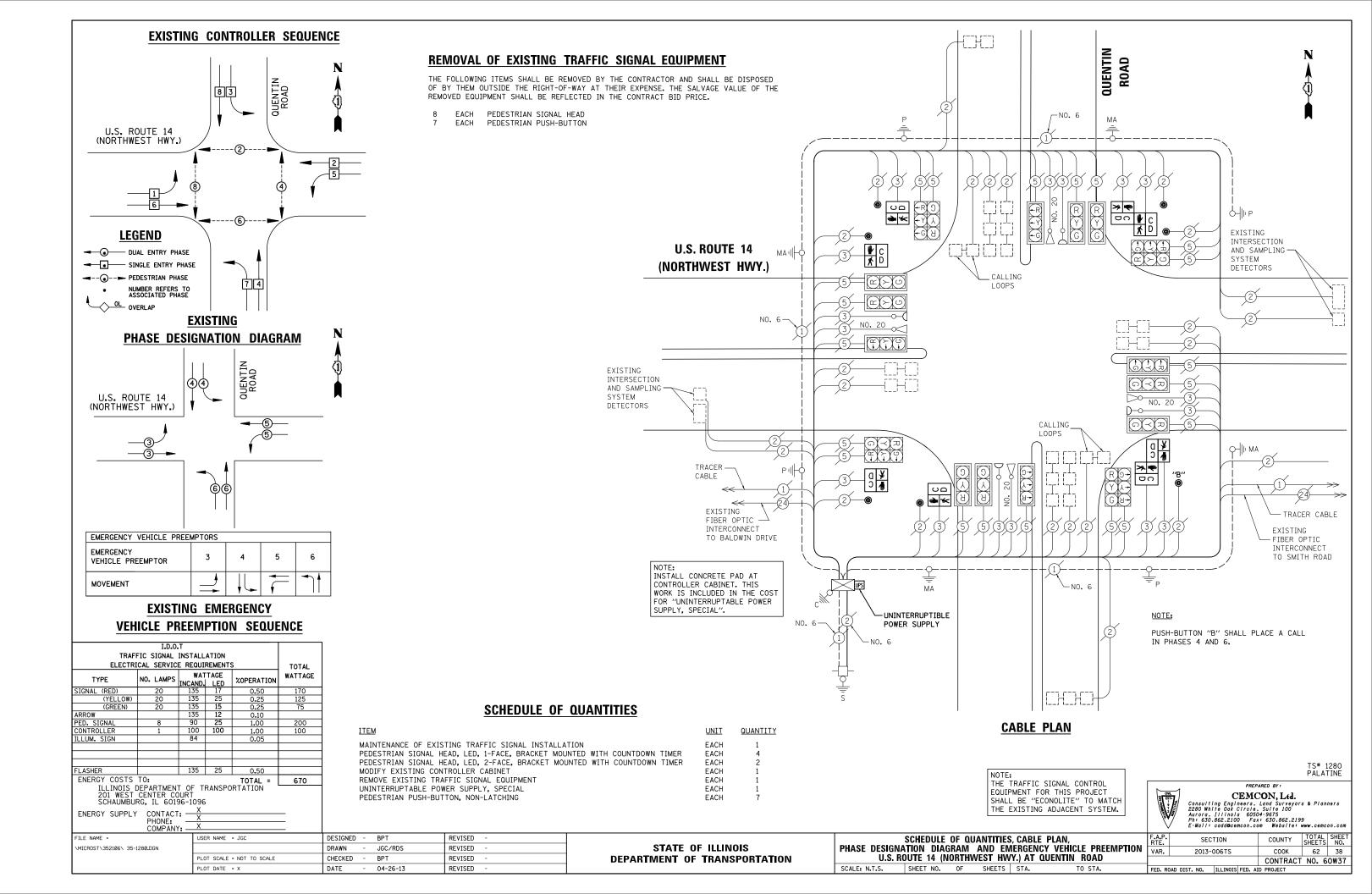
TS# 14715 PALATINE PREPARED BY CEMCON, Ltd.

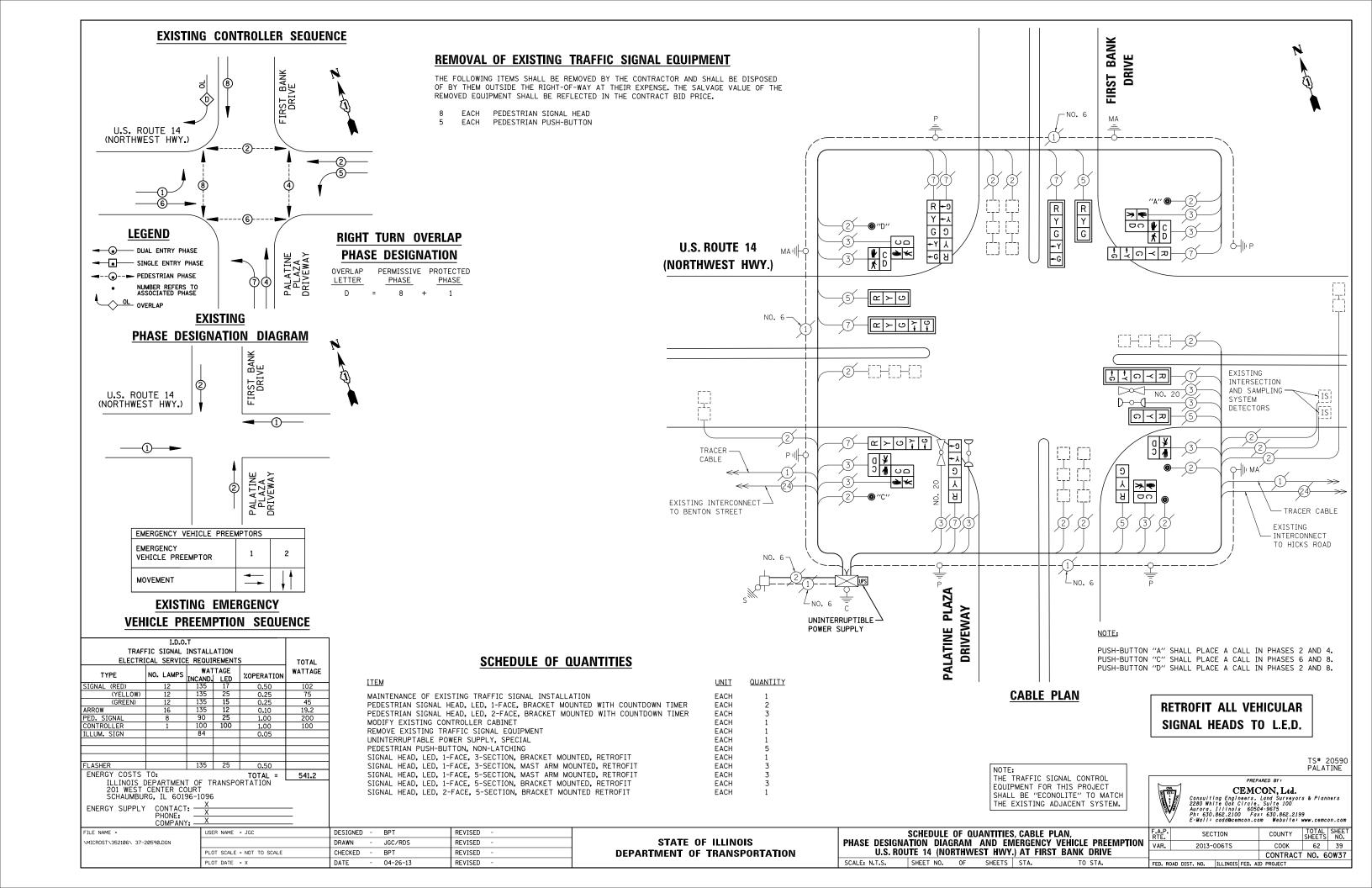
Consulting Engineers. Land Surveyors & Planners 2280 White Oak Circle. Suite 100 Aurors. Illinois 6504-9675 Ph: 650.862.2100 Fax: 630.862.2199 E-Wall: caddbacemoon.com Website: www.cemcon.cc

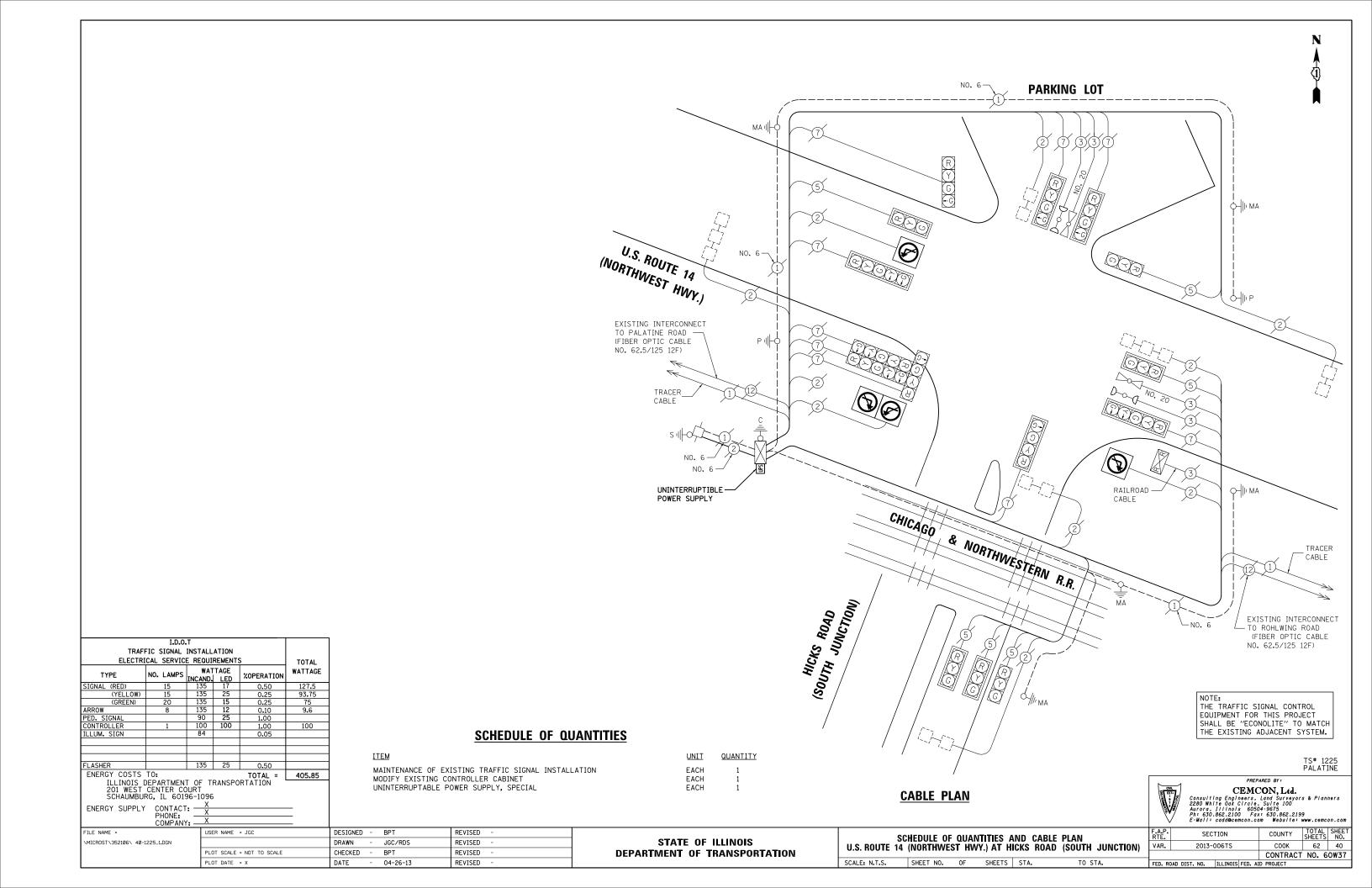
SECTION COUNTY СООК VAR. 2013-006TS 62 36 CONTRACT NO. 60W37

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF QUANTITIES, CABLE PLAN,
PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION PALATINE ROAD AT SMITH STREET SHEET NO. OF SHEETS STA.









12.		
	COOK	1
STA.	TO STA.	
ED, ROAD DIST. NO.	ILLINOIS F	ED. AID PROJECT

SEQUENCE OF OPERATION

MOVEMENT	4	- 2 - 5			— 2 5 —			. 3	, ,					ō	المِيَّا	1 4				F
PHASE	2 +	- 5		2	+ 6				3						4					
INTERVAL	1	2	3	4A	4B	5A	5B	6	7.4	7B	8	9A	9B	90	9D	10A	10B	10C	10D	
CHANGE TO		2+6		3	3		1		24	ref :			2-	+5			2+	6		
LS. ROUTE 14 (NORTHWEST HWY.) E/B	R	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	L
FAR LEFT AND END MAST ARM SIGNALS LS. ROUTE 14 (NORTHWEST HWY.) E/B NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	G	Y	R	Y G-	R G→	R	R	R	R G+	R G→	R G -	R Y =	R	R G→	R G+	R G F	R G→	
NEAR RIGHT AND FAR RIGHT SIGNALS J.S. ROUTE 14 (NORTHWEST HWY.) W/B FAR RIGHT AND END MAST ARM SIGNALS	1 -	G Y	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	L
U.S. ROUTE 14 (NORTHWEST HWY.) W/B	-	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	H
HICKS ROAD (SOUTH OF TRACKS) N/B MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R	+
HICKS ROAD (NORTH OF TRACKS) N/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	G	- G		Y	R	-	G		R	+
PARKING LOT ENTRANCE S/B ALL SIGNALS	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	1

PHASE 2+6 SHALL BE PLACED ON RECALL

RAILROAD PREEMPTION SEQUENCE OF OPERATION

									PREEMP NUMBE		NUMBE		NUMBER		NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		3		6		8	10.50		- 1									
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1			· Colonial I				X	2	-	3		4	-		3	4	5	CLEAR
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1 A	18	1C	1 D	1E	1F	1 G	1H	1J	-	-	1 M		1P	3	4		51.4	NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	1 M	2	1P	2			R	G	∆ ∆
U.S. ROUTE 14 (NORTHWEST HWY.) E/B FAR LEFT AND END MAST ARM SIGNALS	R	R	Y	R	R	R	R	R	Υ	R	R	R	R	R	R	R	-		Δ
U.S. ROUTE 14 (NORTHWEST HWY.) E/B NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	Y	R	R	R	R Y =	R	Y	R	R	R	R	R	R	R	R	G	Δ
U.S. ROUTE 14 (NORTHWEST HWY.) W/B- FAR RIGHT AND END MAST ARM SIGNALS	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	Δ
U.S. ROUTE 14 (NORTHWEST HWY.) W/B FAR RIGHT SIGNAL	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	Δ
HICKS ROAD (SOUTH OF TRACKS) N/B MAST ARM SIGNALS	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	Δ
HICKS ROAD (NORTH OF TRACKS) N/B	R	R	R	R	R	R	G G	G G	R	R _.	G → G	10.5	R	R	→ G	Y	R	R	
ALL SIGNALS PARKING LOT ENTRANCE S/B	R	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	Δ
ALL SIGNALS INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT		-	NRT	NRT	
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NL1	NLT	NLT	NLT	HOLI	

A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR FROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

NLT = "NO LEFT TURN" OR

NRT = "NO RIGHT TURN" OR

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

MERGENCY VEHICLE PREEMPTION S	E.																		PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	
CHANGE FROM NORMAL SEQUENCE OF	11		1	3		3	6	5	6		8			8		8	3		4			CLEAR TO NORMAL
PERATION INTERVAL NUMBER				_	-						1L	1 M	1 N	1P	10	1R	15	1T	2	3	4	SEQUENC
MERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1 A	18	1C	1D	1E	1F	1G	1H	1 J	1K					1R	15	1 T	4				0
CHANGE 10 EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	OR 4	2	1F	3 OR 4	1H	0R 3	4	1L	1 M	1N	2	3			23. 10	,	G G	R	R	0
U.S. ROUTE 14 (NORTHWEST HWY.) E/B FAR LEFT AND END MAST ARM SIGNALS	R	Ŗ	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	0
U.S. ROUTE 14 (NORTHWEST HWY.) E/B NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	G	Y	R	R	R	R	R G→	R G→	R G =	R G ►	R Y→	1	G-	Υ -	R	G	R	R	0
US BOUTE 14 (NORTHWEST HWY.) W/B	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G		R	0
FAR RIGHT AND END MAST ARM SIGNALS U.S. ROUTE 14 (NORTHWEST HWY.) W/B	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	, R	-
FAR RIGHT SIGNAL	-	H	-	-	R	R	R	R	R	Y	R	R	R	G	Y	R	R	R	R	G	R	•
HICKS ROAD (SOUTH OF TRACKS) N/B MAST ARM SIGNALS	R	R	R	R	R	R	1	-	-	G	G	\ \ \	p	G	G	G	Y	R	R	G → G	R	0
HICKS ROAD (NORTH OF TRACKS) N/B	R	R	R	R	R	R	R	R	R	- (- G	1	"	-		→ G		-	R	R	G	0
PARKING LOT ENTRANCE - S/B	R	R	R	R	R	R	Y	R	G	R	R	R	R	R	R	R	R	R			→ G	

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

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
80018

ILLINOIS DEPARTMENT OF TRANSPORTATIC
SEQUENCE OF OPERATION, RAILROAD
PREEMPTION SEQUENCE OF OPERATION ANI
EMERGENCY VEHICLE PREEMPTION
SEQUENCE OF OPERATIO
U.S. ROUTE 14 (NORTHWEST HI)
AND HICKS ROAD (SOUTH JUNCTION)
DRAWN BY FN
DATE 6-30-98 CHECKED BY GMZ DATE 6-30-98

n:\dgn\trafsig\96-175\railroad\97-20\us14_hic.dgn

FILE NAME =

\MICROST\352106\ 40-1225_2.DGN

USER NAME = JGC DESIGNED - BPT REVISED DRAWN JGC/RDS REVISED PLOT SCALE = NOT TO SCALE CHECKED REVISED PLOT DATE = X DATE - 04-26-13 REVISED

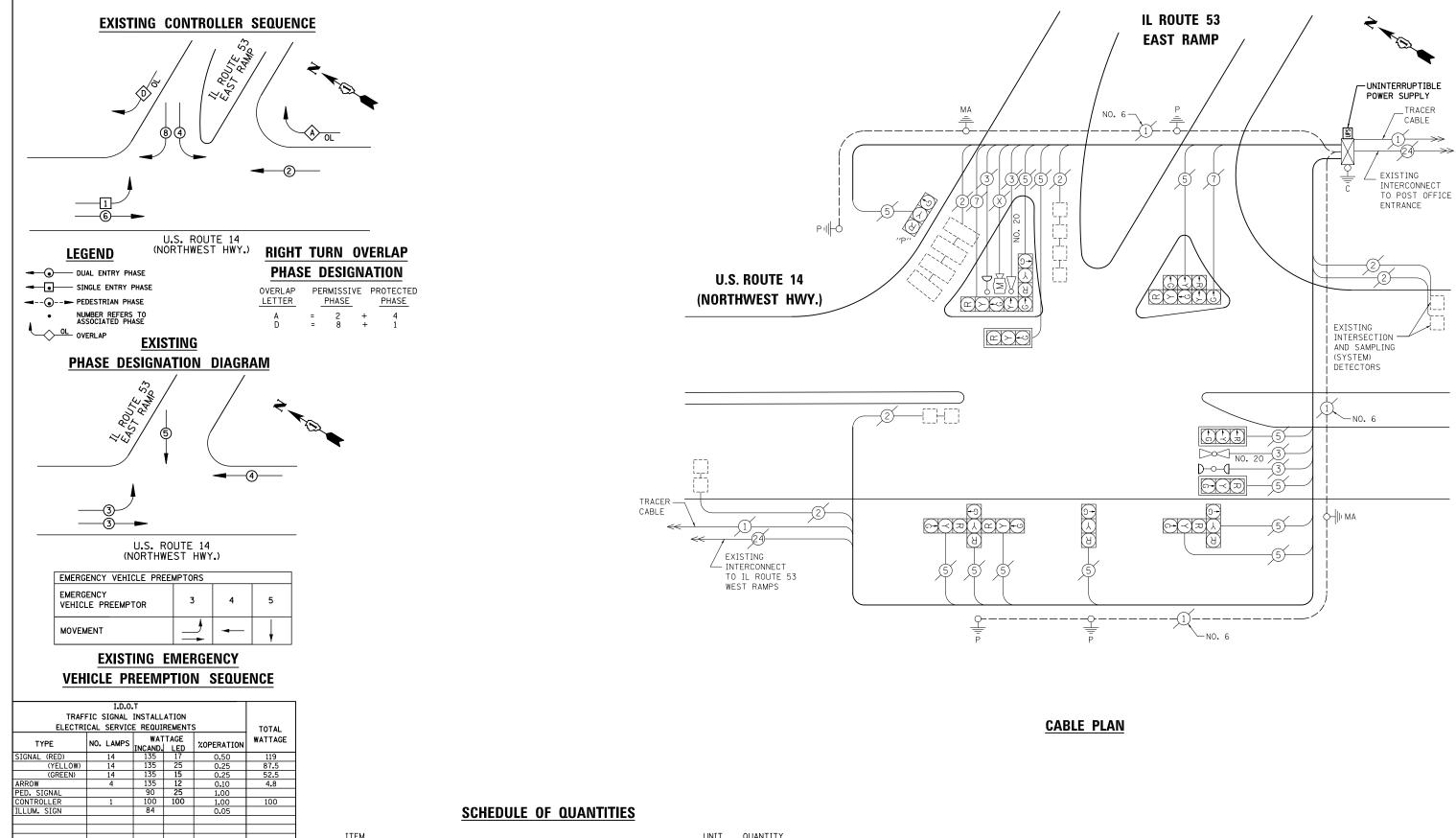
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SEQUENCE OF OPERATION, RAILROAD PREEMPTION SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION VAR. U.S. ROUTE 14 (NORTHWEST HWY.) AT HICKS ROAD (SOUTH JUNCTION) SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

CEMCON, Ltd.
Consulting Englineers. Land Surveyors & Planners
2280 White Boglineers. Land Surveyors & Planners
2280 White Oak Circle. Suite 100
Aurora, Illinois 60504-967.
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com COUNTY TOTAL SHEETS NO.

COOK 62 41 SECTION COUNTY 2013-006TS CONTRACT NO. 60W37

PREPARED BY:



<u>UNIT</u> QUANTITY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH MODIFY EXISTING CONTROLLER CABINET EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH

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

TS# 1180 PALATINE PREPARED BY CEMCON, Led. Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100

Aurora, Illinois 6050 Ph: 630.862.2100 Fax E-Mail: cadd@cemcon.co	c: 630.862.219 om Website:	www.cemc	
SECTION	COUNTY	TOTAL SHEETS	NO.
2013-006TS	COOK	62	42

FILE NAME = \MICROST\3521Ø6\ 41-118Ø.DGN

ENERGY COSTS TO:

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

CONTACT: -PHONE:

FLASHER

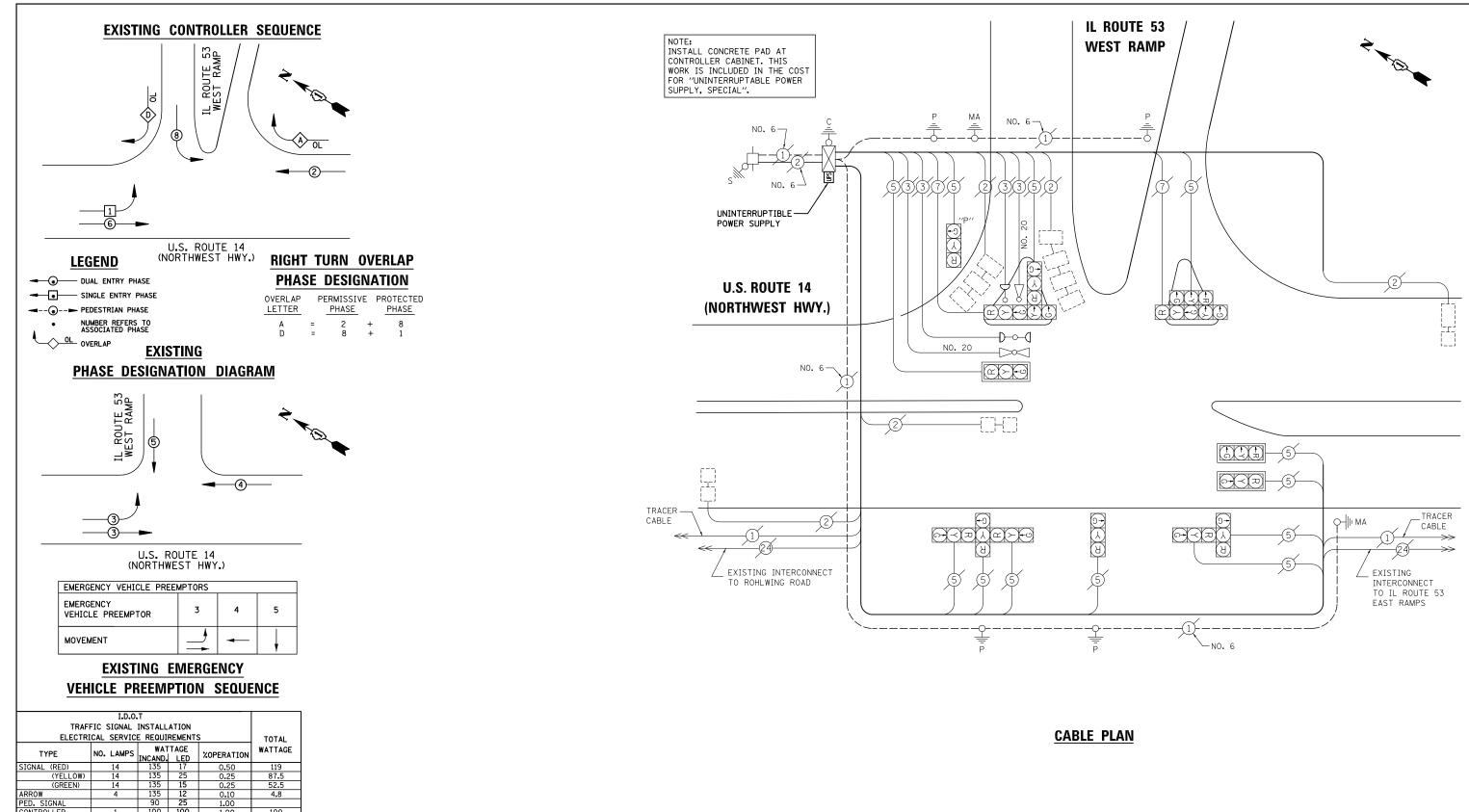
ENERGY SUPPLY

DESIGNED - BPT REVISED USER NAME = JGC DRAWN JGC/RDS REVISED PLOT SCALE = NOT TO SCALE CHECKED BPT REVISED DATE REVISED PLOT DATE = X 04-26-13

363.8

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF QUANTITIES, CABLE PLAN,
PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION U.S. ROUTE 14 (NORTHWEST HWY.) AT IL ROUTE 53 EAST RAMP SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

VAR. CONTRACT NO. 60W37



SCHEDULE OF QUANTITIES

<u>UNIT</u> QUANTITY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH MODIFY EXISTING CONTROLLER CABINET EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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

TS# 1185 PALATINE PREPARED BY CEMCON LA

EMVIROMENTIAL	The same of the sa	CEMC Consulting Engineers. 2280 White Oak Circle Aurora, Illinois 6050 Ph: 630.862.2100 Fax E-Mail: cadd@cemcon.co	Suite 100 94-9675 0: 630.862.219	9	
RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEE NO.

FILE NAME = \MICROST\3521Ø6\ 42-1185.DGN

ENERGY COSTS TO:

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

CONTACT: -PHONE:

FLASHER

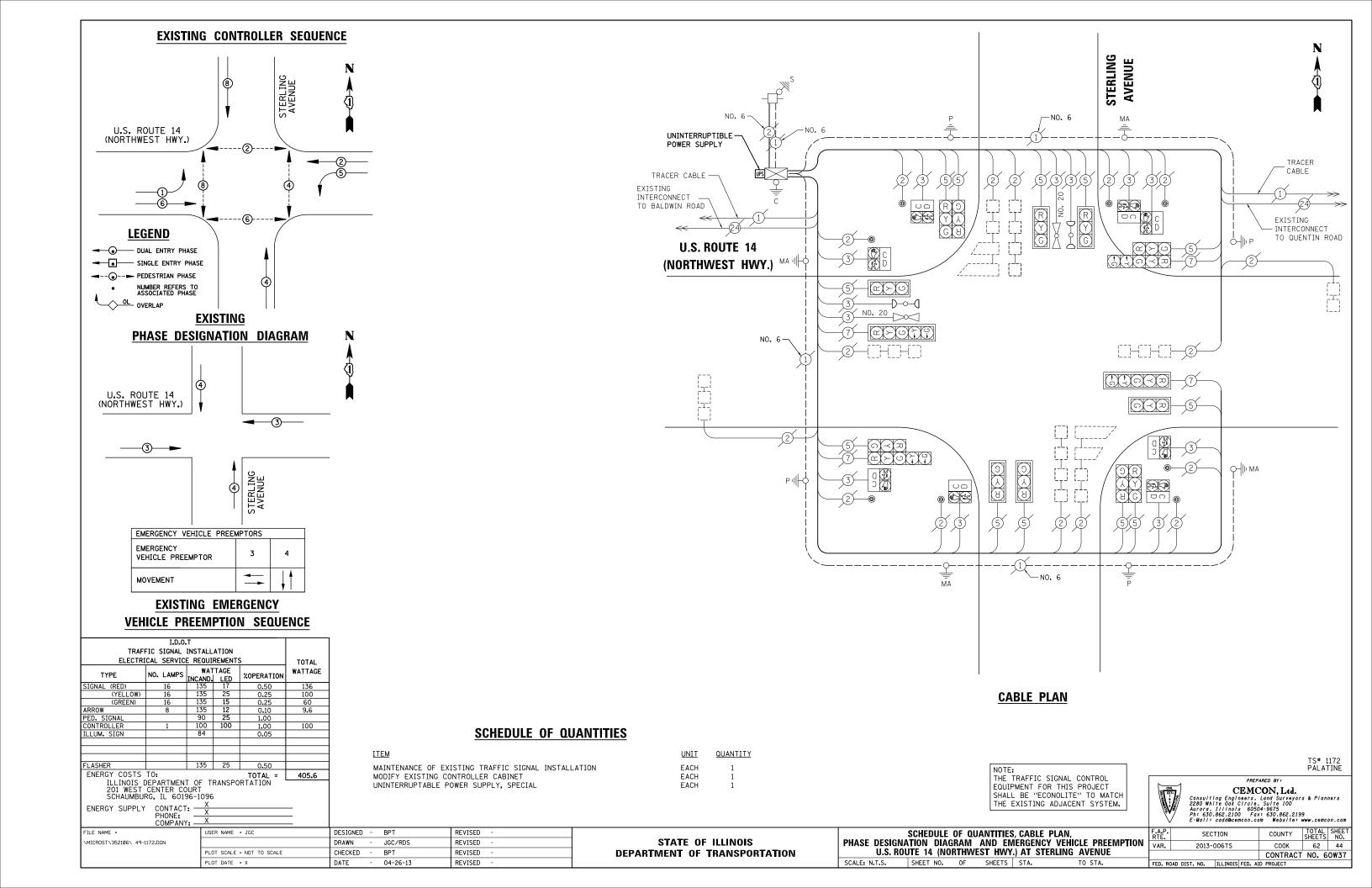
ENERGY SUPPLY

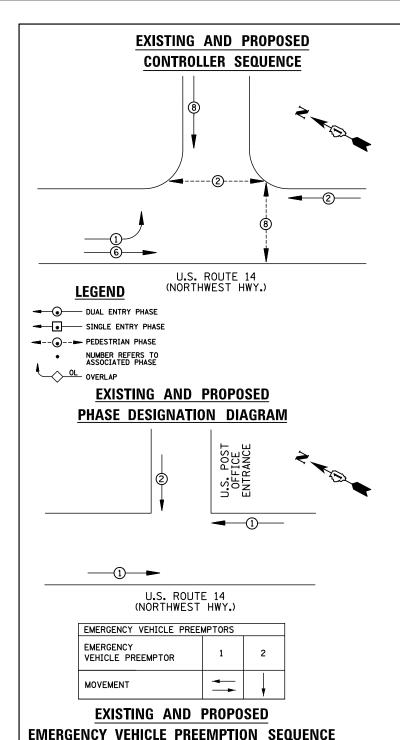
DESIGNED - BPT REVISED USER NAME = JGC DRAWN JGC/RDS REVISED PLOT SCALE = NOT TO SCALE CHECKED BPT REVISED DATE REVISED PLOT DATE = X 04-26-13

363.8

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF QUANTITIES, CABLE PLAN,
PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION U.S. ROUTE 14 (NORTHWEST HWY.) AT IL ROUTE 53 WEST RAMP SHEET NO. OF SHEETS STA. TO STA.

COOK 62 43 VAR. CONTRACT NO. 60W37



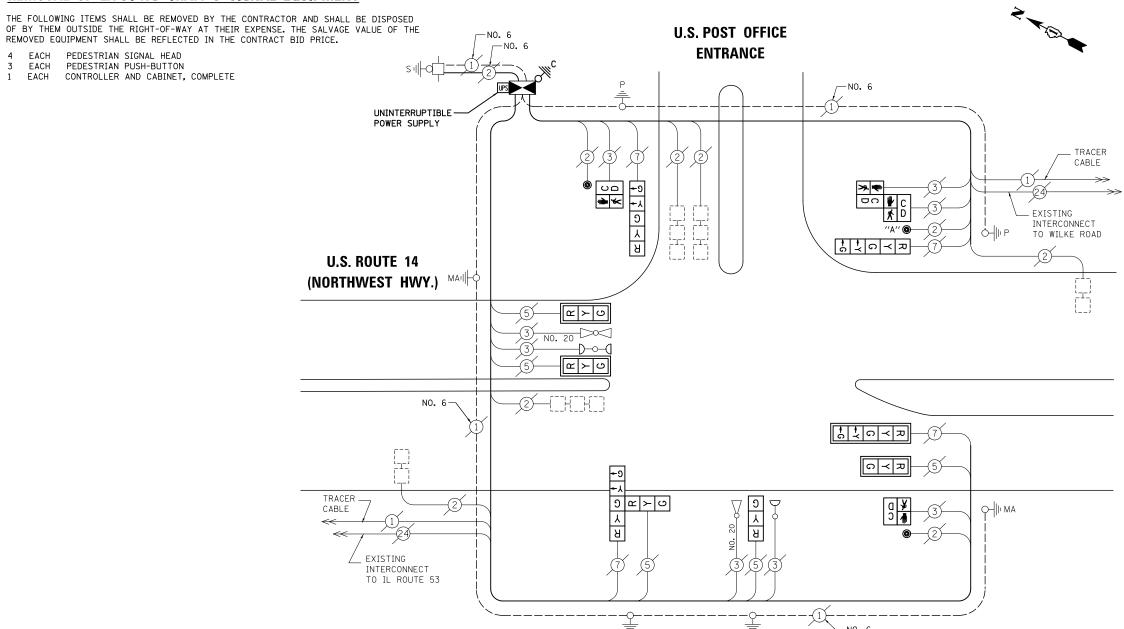


REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON

EACH

CONTROLLER AND CABINET, COMPLETE



PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 8.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS TOTAL WATTAGE NCAND, LED WATTAGE %OPERATION FLASHER ENERGY COSTS TO: TOTAL = ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

USER NAME = JGC

PLOT DATE = X

PLOT SCALE = NOT TO SCALE

DESIGNED - BPT

JGC/RDS

04-26-13

DRAWN

DATE

CHECKED

REVISED

REVISED

REVISED

REVISED

CONTACT: -PHONE:

ENERGY SUPPLY

MICROST\352106\ 50-1250.DGN

FILE NAME =

SCHEDULE OF QUANTITIES

<u>ITEM</u>	<u>UNIT</u>	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	3
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2

THE TRAFFIC SIGNAL CONTROL

EQUIPMENT FOR THIS PROJECT

SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL".

CABLE PLAN

RETROFIT ALL VEHICULAR SIGNAL HEADS TO L.E.D.

TS# 1250 PALATINE



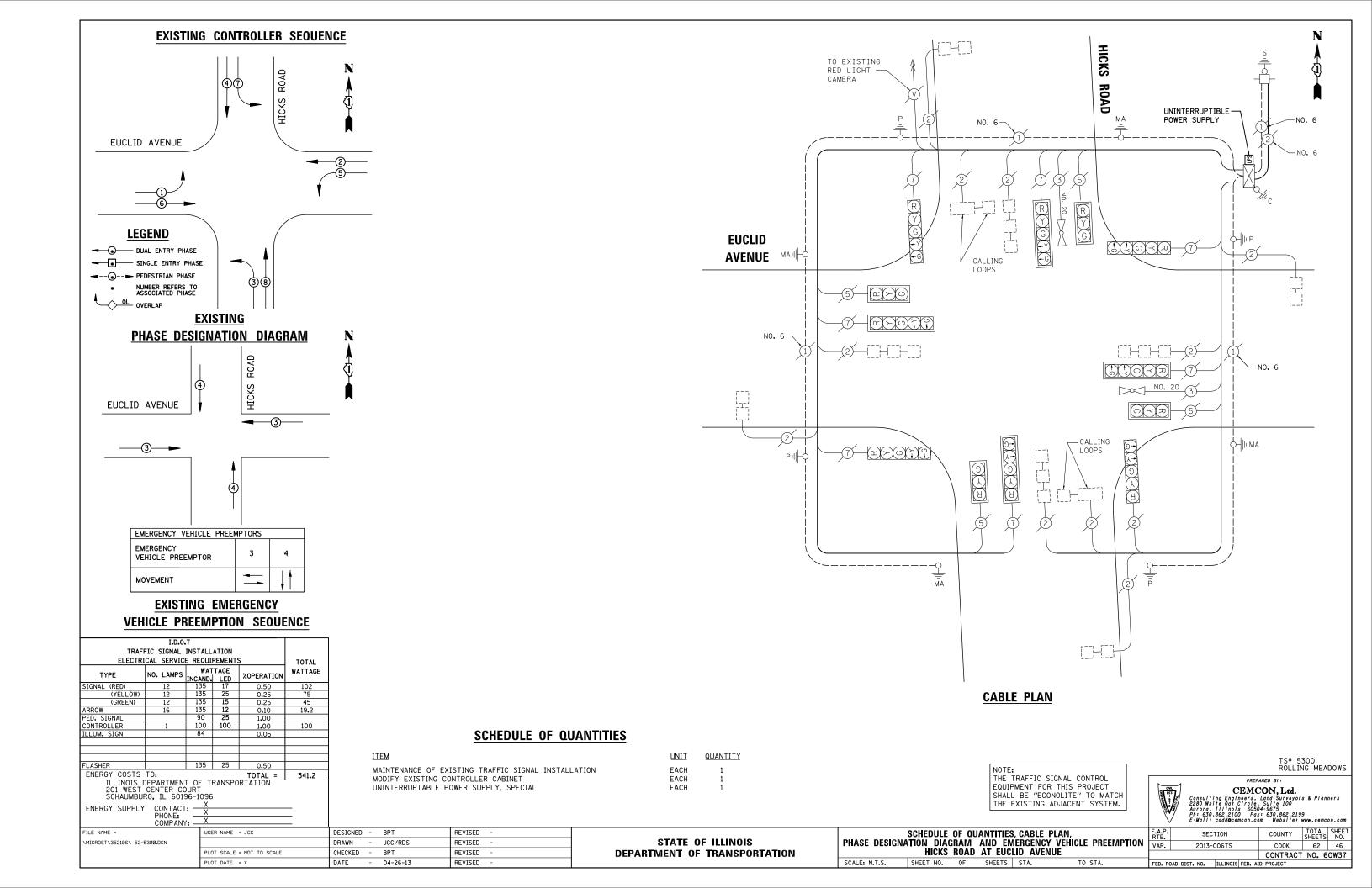
CEMCON, Led. Consulting Engineers, Land Surveyors & Planners 2280 While Oak Circle, Suite 100 Aurora, Illinois 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199 E-Wall: acd@acmoon.com Website: www.cemcon.com

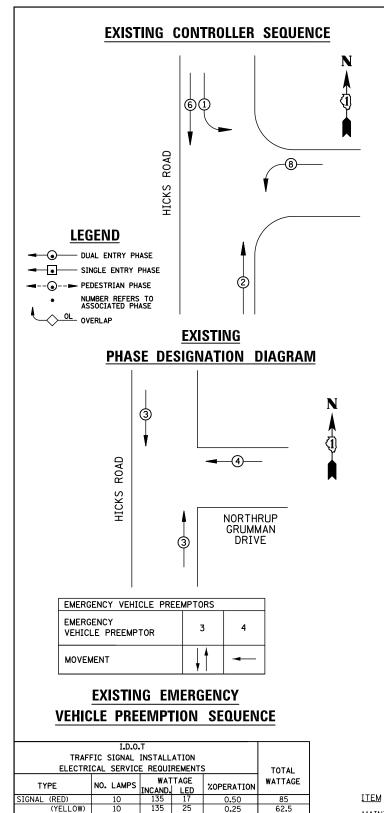
PREPARED BY

SECTION COUNTY СООК VAR. 2013-006TS 62 45 CONTRACT NO. 60W37

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN,
PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION U.S. ROUTE 14 (NORTHWEST HWY.) AT U.S. POST OFFICE ENTRANCE SHEET NO. OF SHEETS STA.





100 100

JSER NAME = JGC

ENERGY COSTS TO: TOTAL =

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

CONTACT: PHONE:

(GREEN)

FLASHER

FILE NAME :

ENERGY SUPPLY

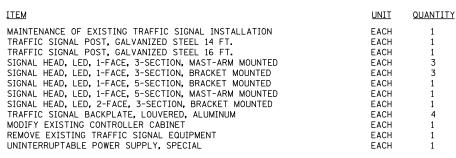
MICROST\352106\ 53-11730.DGN

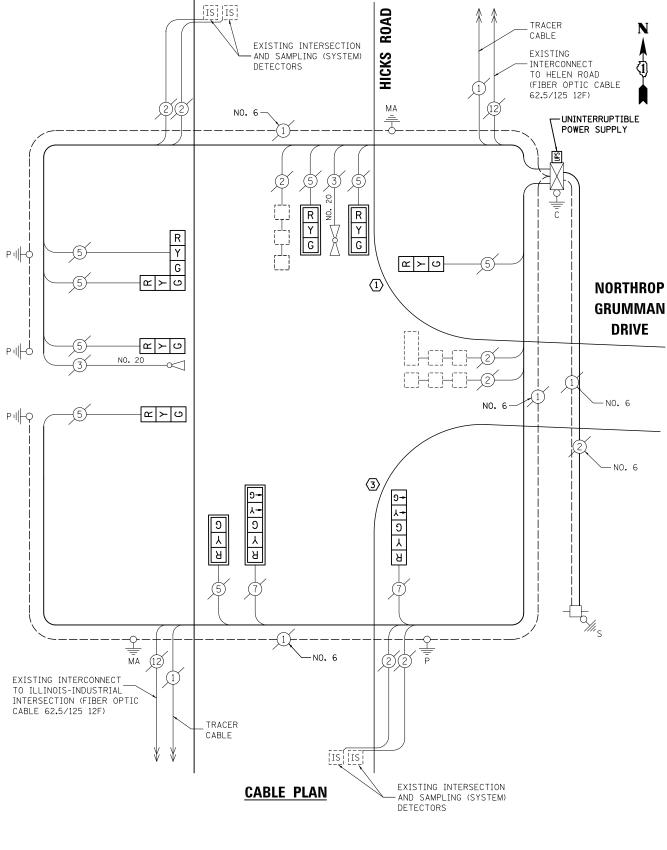
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

- TRAFFIC SIGNAL POST FACH SIGNAL HEAD, 3-SECTION
- FΔCH SIGNAL HEAD, 5-SECTION FACH TRAFFIC SIGNAL BACKPLATE
 - (1) REPLACE 14 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION
 - REPLACE 15 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION
 - REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION
 - REPLACE 18 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

SCHEDULE OF QUANTITIES





THE EXISTING ADJACENT SYSTEM.

SCHEDULE OF QUANTITIES, CABLE PLAN,

SHEET NO. OF SHEETS STA.

PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION

HICKS ROAD AT NORTHROP GRUMMAN DRIVE

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH

TS# 11730 ROLLING MEADOWS PREPARED BY

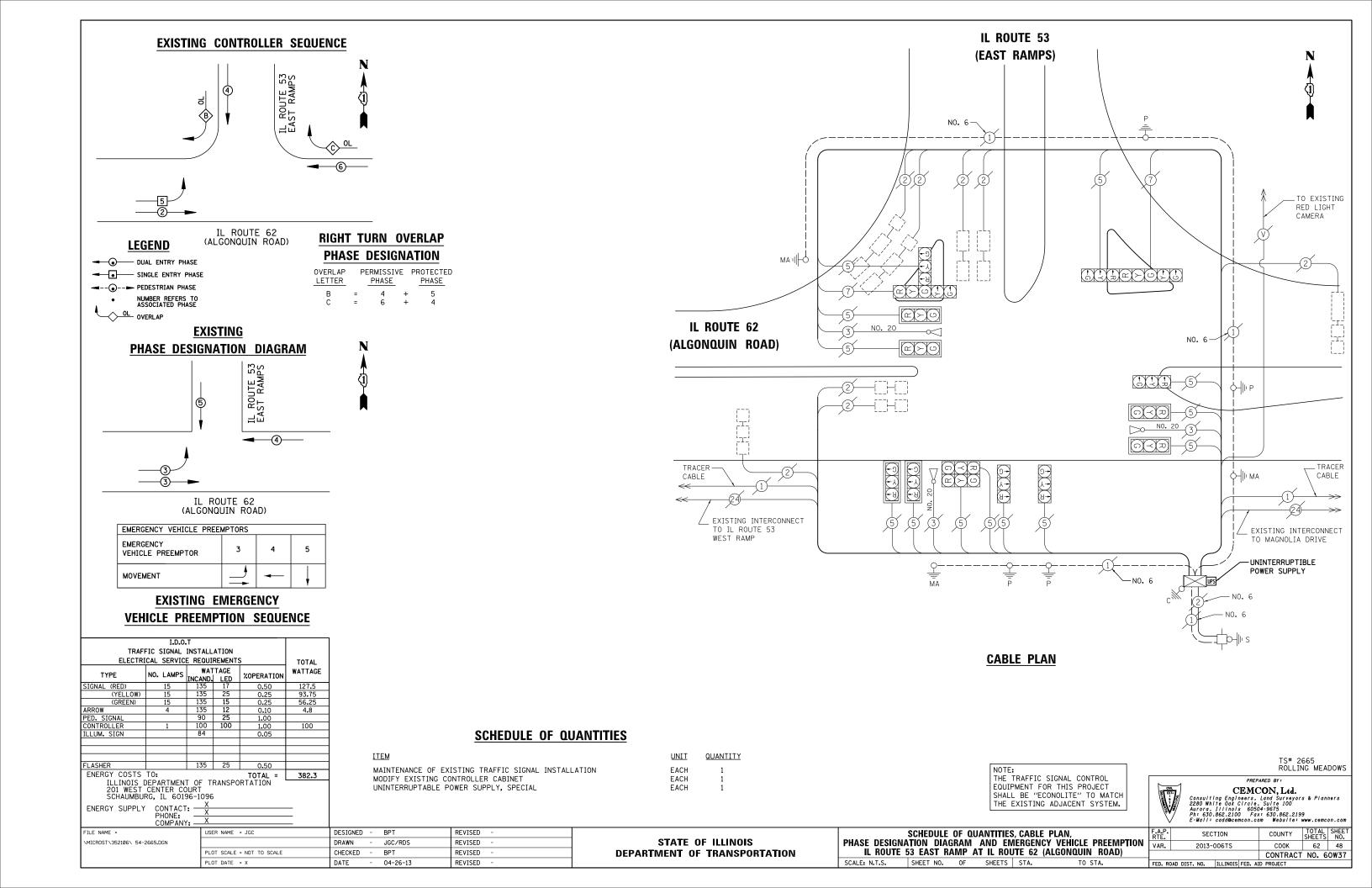
CEMCON, Ltd. Consulting Engineers, Land Surveyors & Planners 2280 While Oak Circle, Suite 100 Aurora, 1111/nols 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199 E-Wall: acd@acmoon.com Website: www.cemcon.com

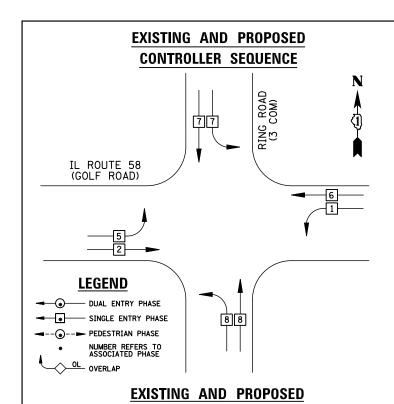
SECTION COUNTY VAR. 2013-006TS COOK 62 47 CONTRACT NO. 60W37

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

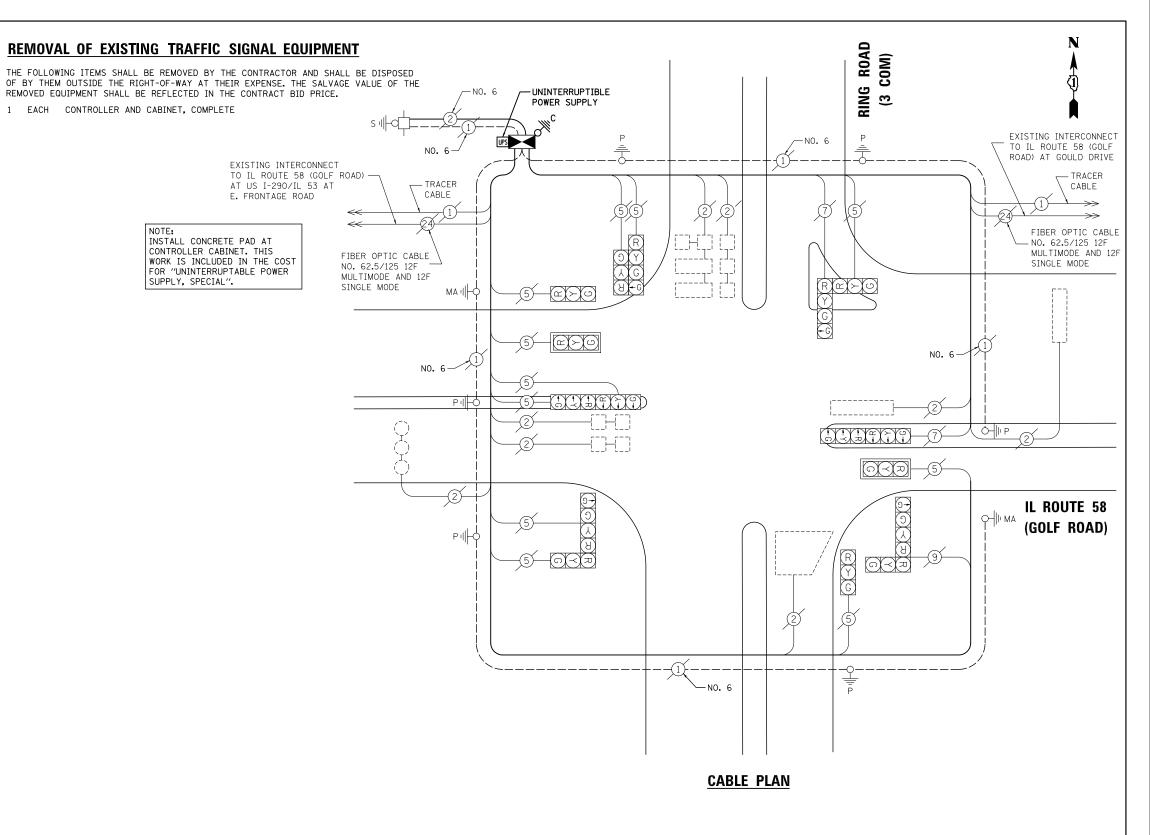
DESIGNED - BPT REVISED DRAWN JGC/RDS REVISED PLOT SCALE = NOT TO SCALE CHECKED REVISED PLOT DATE = X DATE 04-26-13 REVISED

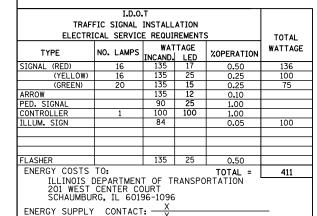
289.8





PHASE DESIGNATION DIAGRAM





USER NAME = JGC

PHONE:

FILE NAME =

MICROST\352106\ 55-2860.DGN

SCHEDULE OF QUANTITIES

ITEM	<u>UNIT</u>	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRANSCEIVER - FIBER OPTIC INDUCTIVE LOOP DETECTOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH EACH EACH EACH EACH	1 1 8 1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

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

TS# 2860 ROLLING MEADOWS PREPARED BY



CEMCON, Ltd. Consulting Engineers, Land Surveyors & Planners 2280 While Oak Circle, Suite 100 Aurora, 1111/nols 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199 E-Wall: acd@acmoon.com Website: www.cemcon.com

SECTION COUNTY COOK 62 49 VAR. 2013-006TS CONTRACT NO. 60W37

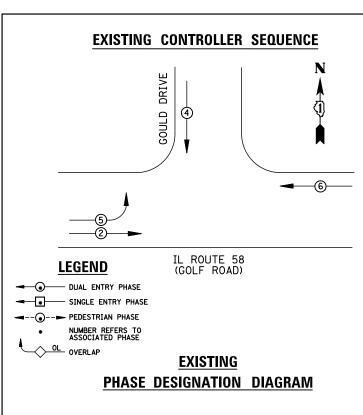
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL ROUTE 58 (GOLF ROAD) AT RING ROAD (3 COM) SCALE: N.T.S. SHEET NO. OF SHEETS STA.

DRAWN JGC/RDS REVISED PLOT SCALE = NOT TO SCALE CHECKED REVISED REVISED PLOT DATE = X DATE 04-26-13

REVISED

DESIGNED - BPT



I.D.O.T

TRAFFIC SIGNAL INSTALLATION

ELECTRICAL SERVICE REQUIREMENTS

ENERGY COSTS TO: TOTAL =

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

GIGNAL (RED)

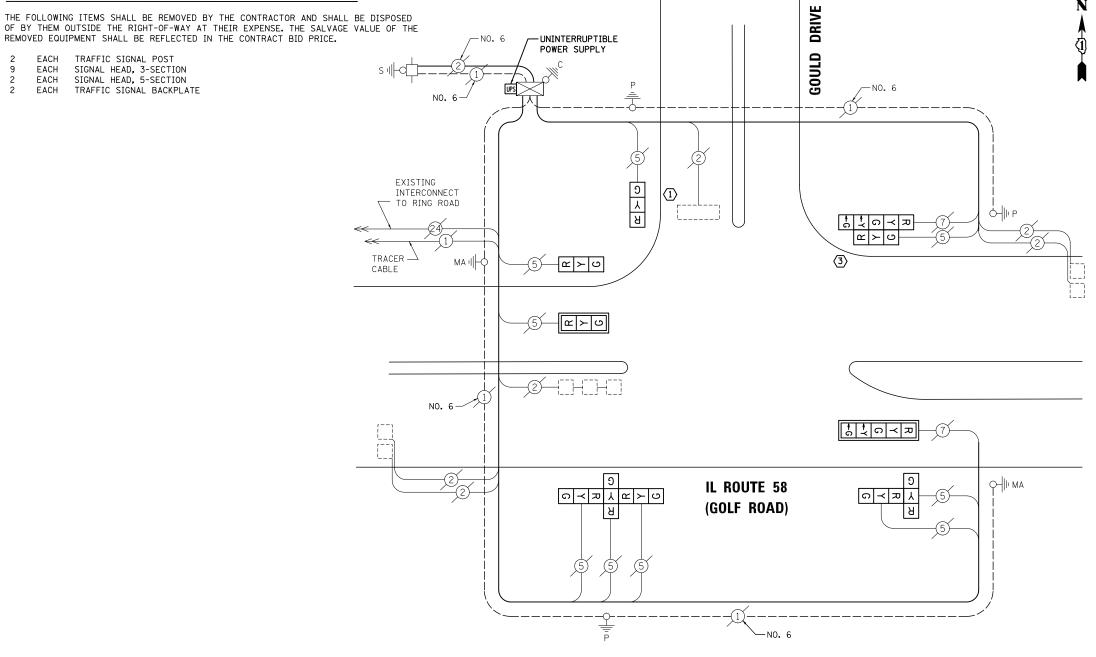
FLASHER

(GREEN)

WATTAGE INCAND. LED 135 17 135 25

100 100

PLOT DATE = X



SCHEDULE OF QUANTITIES

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

TRAFFIC SIGNAL POST

SIGNAL HEAD, 3-SECTION

SIGNAL HEAD, 5-SECTION

TRAFFIC SIGNAL BACKPLATE

EACH

FACH

EACH

QUANTITY <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED EACH SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH MODIFY EXISTING CONTROLLER CABINET EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH

(1) REPLACE 14 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

REPLACE 15 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

(4) REPLACE 18 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

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

TS# 2770 ROLLING MEADOWS PREPARED BY CEMCON, Ltd.

Consulting Engineers, Land Surveyors & Planners 2280 While Oak Circle, Suite 100 Aurora, 1111/nols 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199 E-Wall: acd@acmoon.com Website: www.cemcon.com SECTION COUNTY

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM IL ROUTE 58 (GOLF ROAD) AT GOULD DRIVE

NOTE:

CABLE PLAN

ENERGY SUPPLY CONTACT: — PHONE: — COMPANY: —	X X X			
FILE NAME =	USER NAME = JGC	DESIGNED -	BPT	REVISED -
\MICROST\352106\ 57-2770.DGN		DRAWN -	JGC/RDS	REVISED -
	PLOT SCALE = NOT TO SCALE	CHECKED -	BPT	REVISED -

DATE

- 04-26-13

REVISED

308.3

TOTAL

WATTAGE

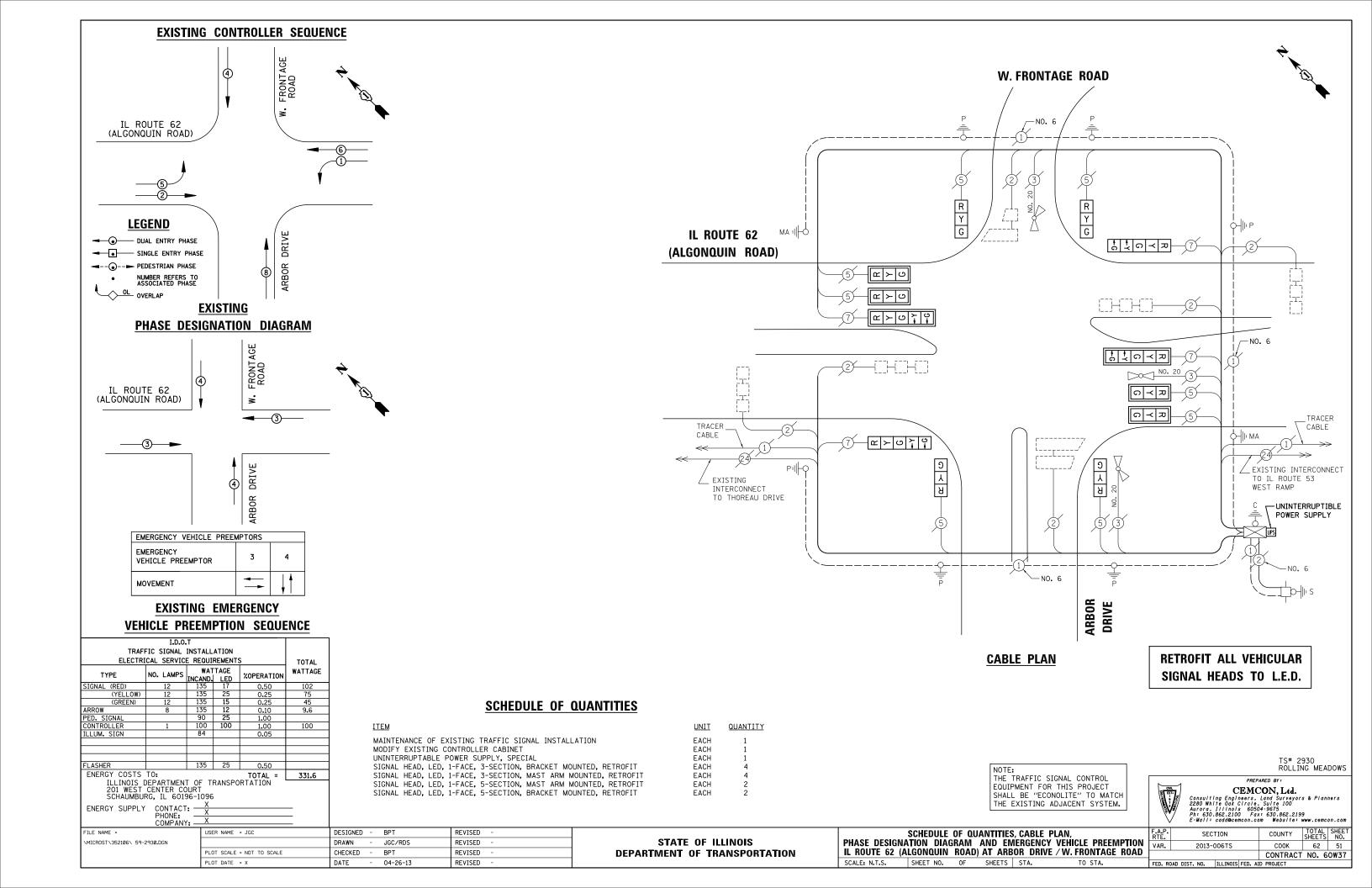
%OPERATION

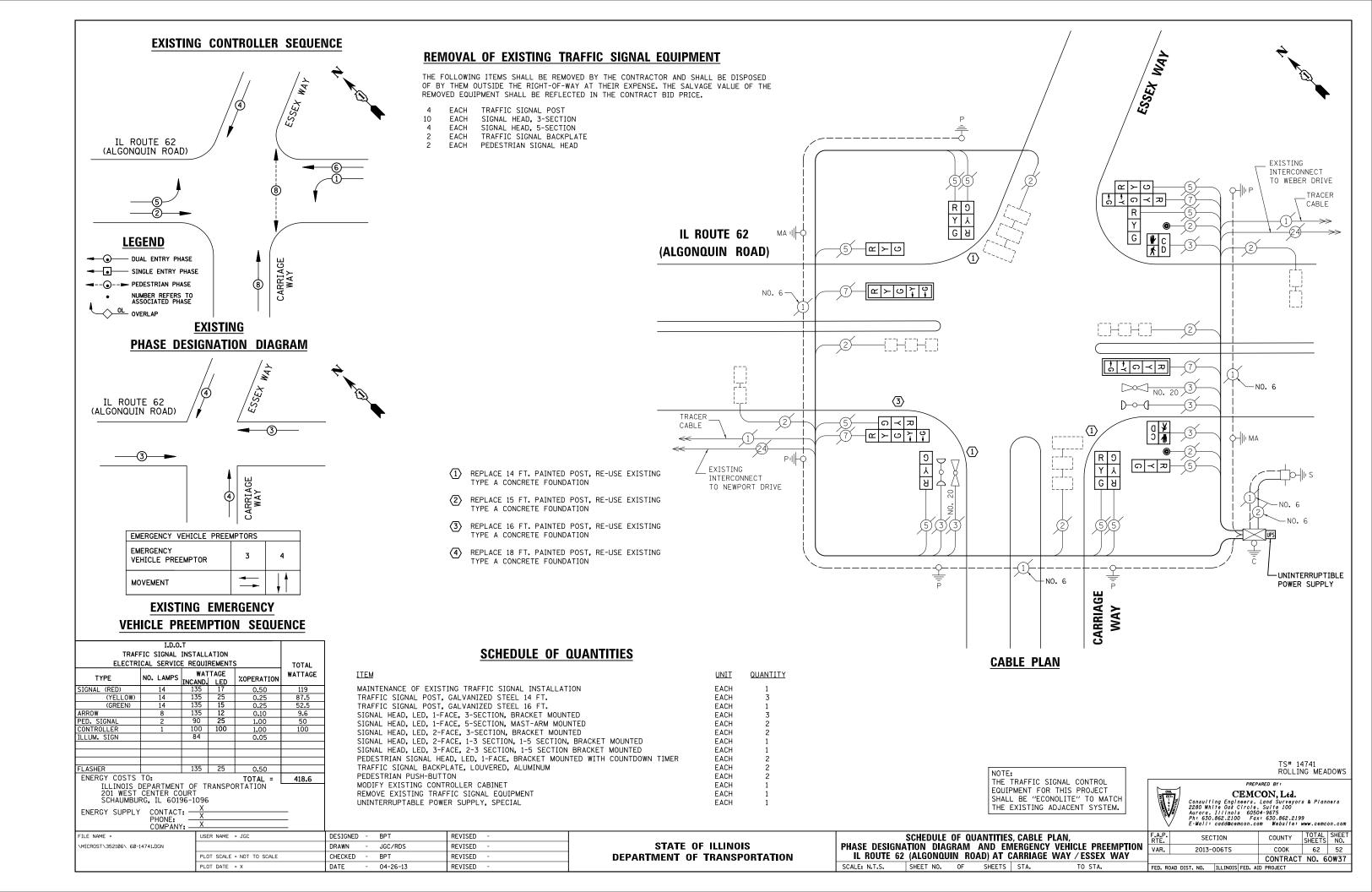
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

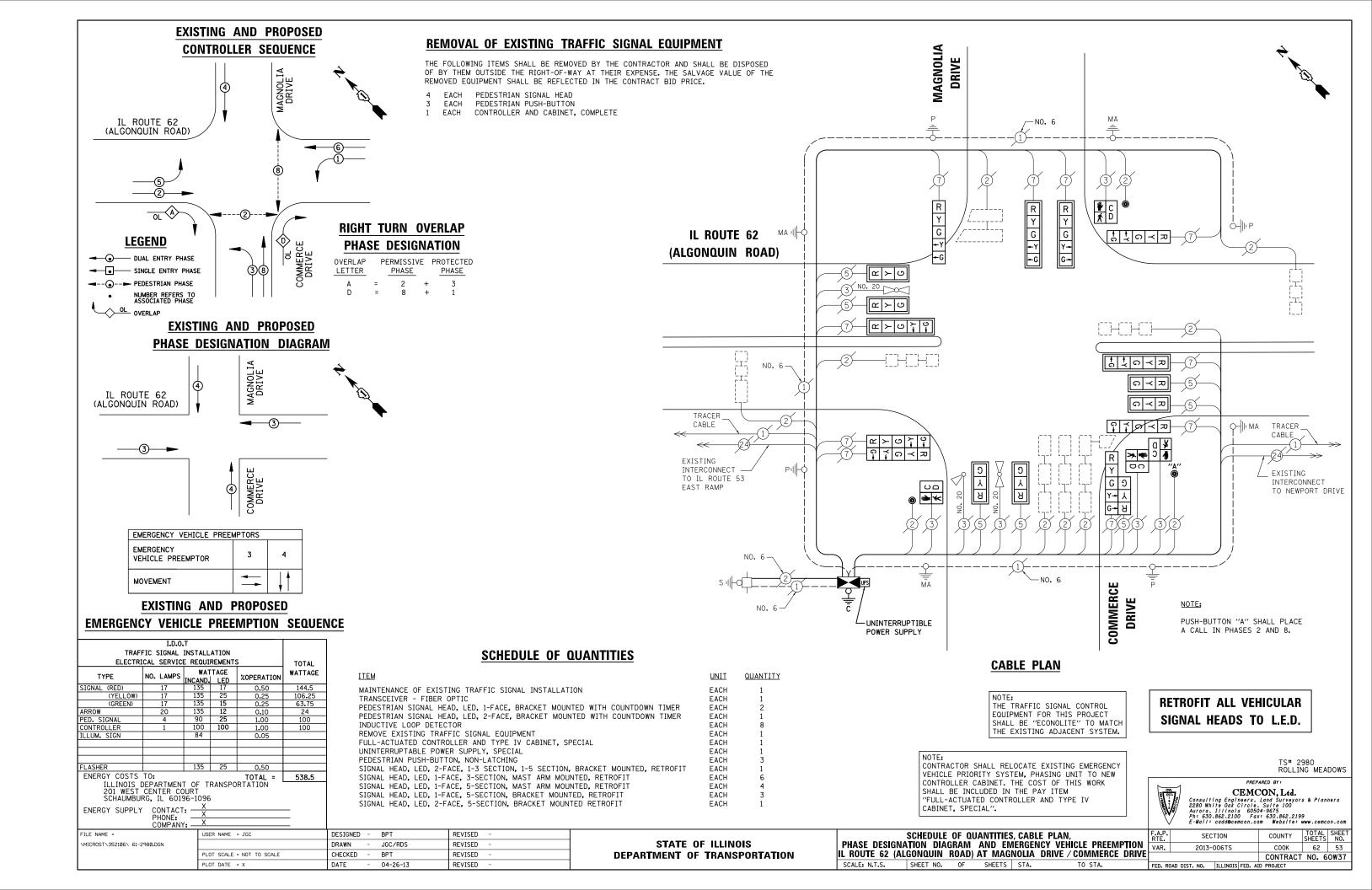
SCALE: N.T.S. SHEET NO. OF SHEETS STA.

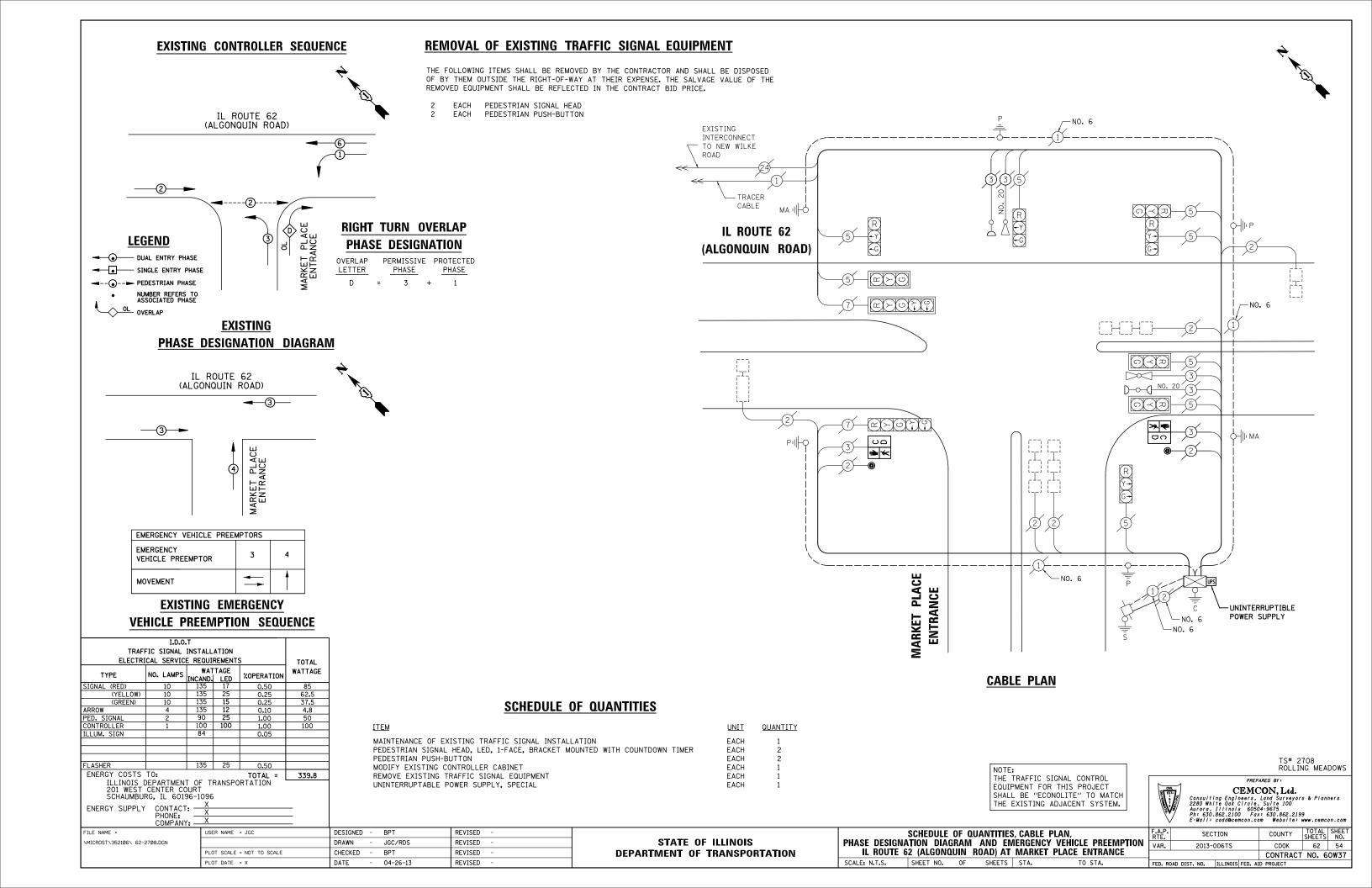
VAR. 2013-006TS

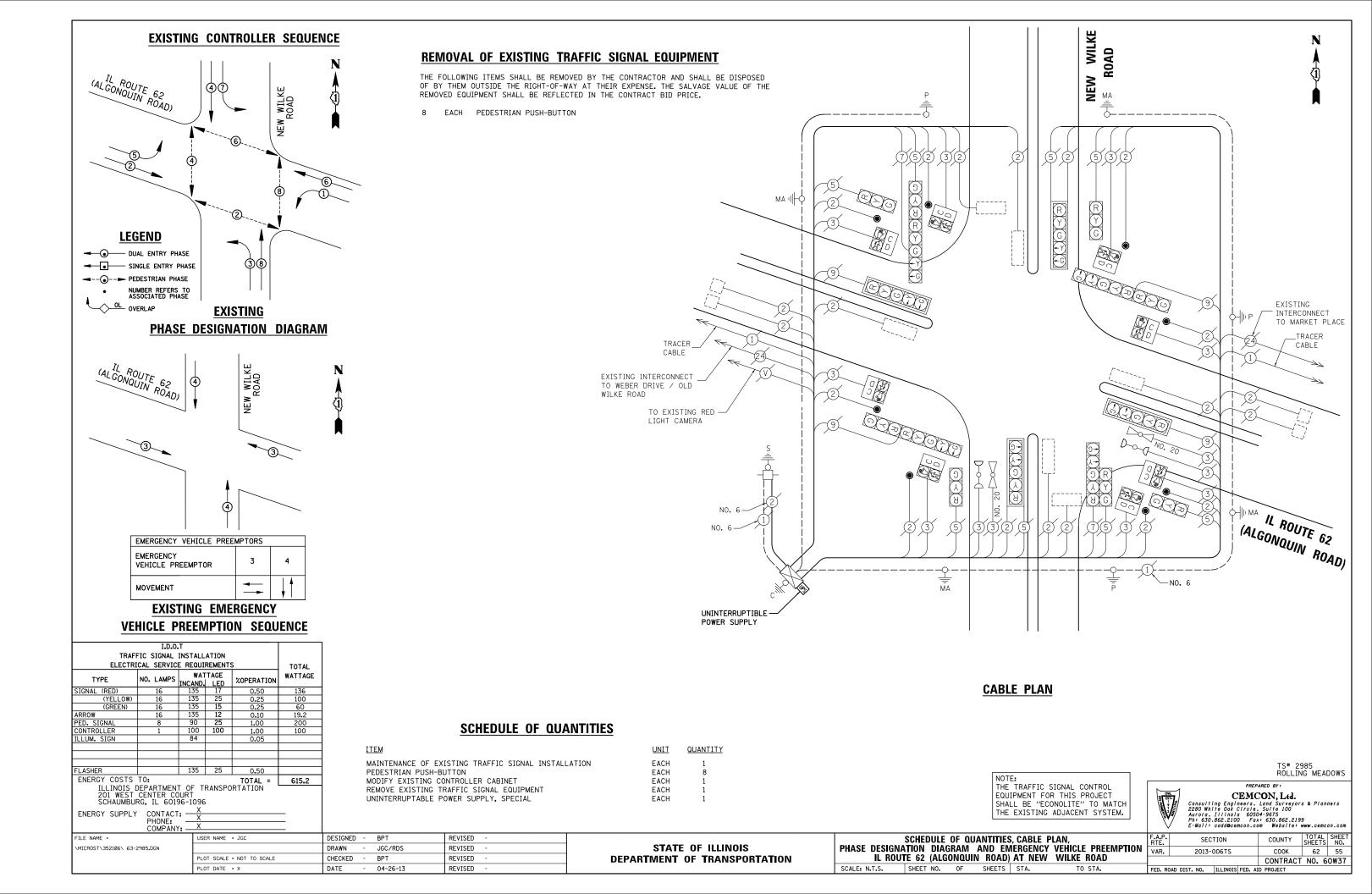
COOK 62 50 CONTRACT NO. 60W37 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

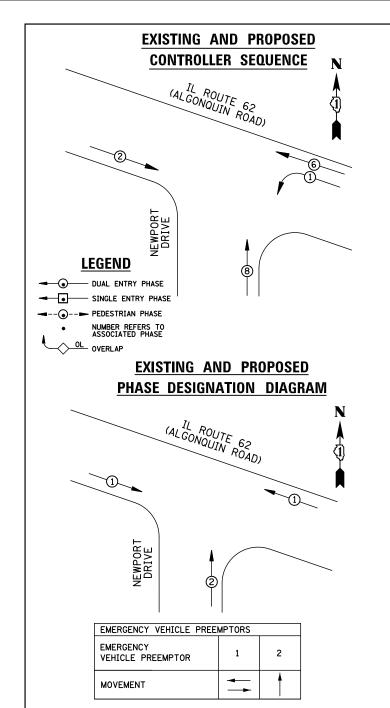












EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

	I.D.O.	.Т								
TRAF	FIC SIGNAL	INSTALL	ATION							
ELECTRI	CAL SERVIC	E REQUI	REMENT:	S	TOTAL					
TYPE	NO. LAMPS	NO. LAMPS WATTAGE %OPERATION								
SIGNAL (RED)	8	135	17	0.50	68					
(YELLOW)	8	135	25	0.25	50					
(GREEN)	8	135	15	0.25	30					
ARROW	4	135	12	0.10	4.8					
PED. SIGNAL		90	25	1.00						
CONTROLLER 1 100 100 1.00										
ILLUM. SIGN		84		0.05						
FLASHER		135	25	0.50						
ENERGY COSTS	TO:			TOTAL =	252.8					
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096										
ENERGY SUPPLY	CONTACT	X			_ _					

MICROST\3521Ø6\ 64-21595.DGN

USER NAME = JGC

PLOT DATE = X

DESIGNED - BPT

JGC/RDS

04-26-13

DRAWN

DATE

CHECKED

REVISED

REVISED

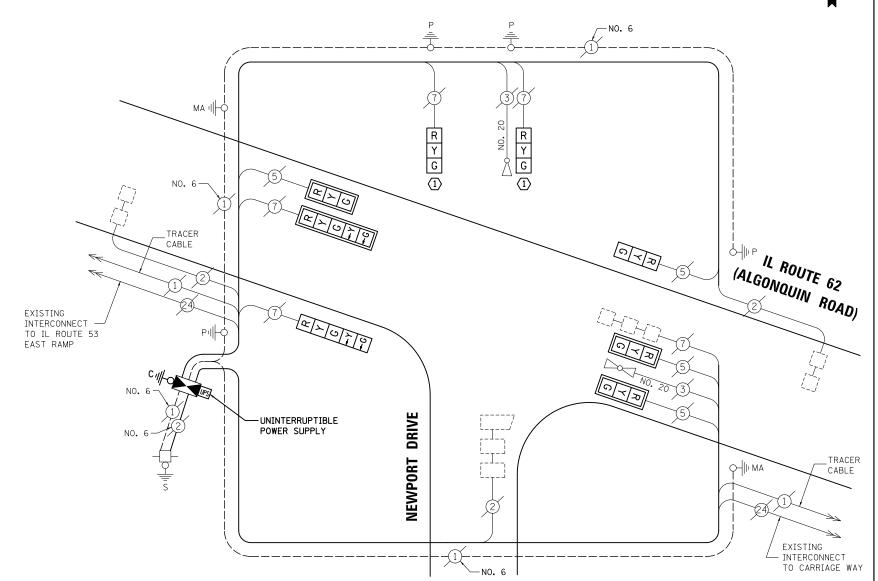
REVISED

REVISED

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

EACH SIGNAL HEAD, 4-SECTION
EACH CONTROLLER AND CABINET, COMPLETE



NEW 3-SECTION HEAD.

(1) REMOVE EXISTING 4-SECTION SIGNAL HEAD AND REPLACE WITH

CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM	<u>UNIT</u>	QUANTITY	NOTE: THE TRAFFIC SIGNAL CONTROL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	EQUIPMENT FOR THIS PROJECT
TRANSCEIVER - FIBER OPTIC	EACH	1	SHALL BE "ECONOLITE" TO MATCH
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	THE EXISTING ADJACENT SYSTEM.
INDUCTIVE LOOP DETECTOR	EACH	4	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	NOTE:
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1	VEHICLE PRIORITY SYSTEM, PHASING UNIT TO NEW
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	3	CONTROLLER CABINET. THE COST OF THIS WORK
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	1	SHALL BE INCLUDED IN THE PAY ITEM
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1	"FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL".

SCHEDULE OF QUANTITIES, CABLE PLAN,
PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION
IL ROUTE 62 (ALGONQUIN ROAD) AT NEWPORT DRIVE

RETROFIT ALL VEHICULAR SIGNAL HEADS TO L.E.D. **EXCEPT AS NOTED**

TS# 21595 ROLLING MEADOWS

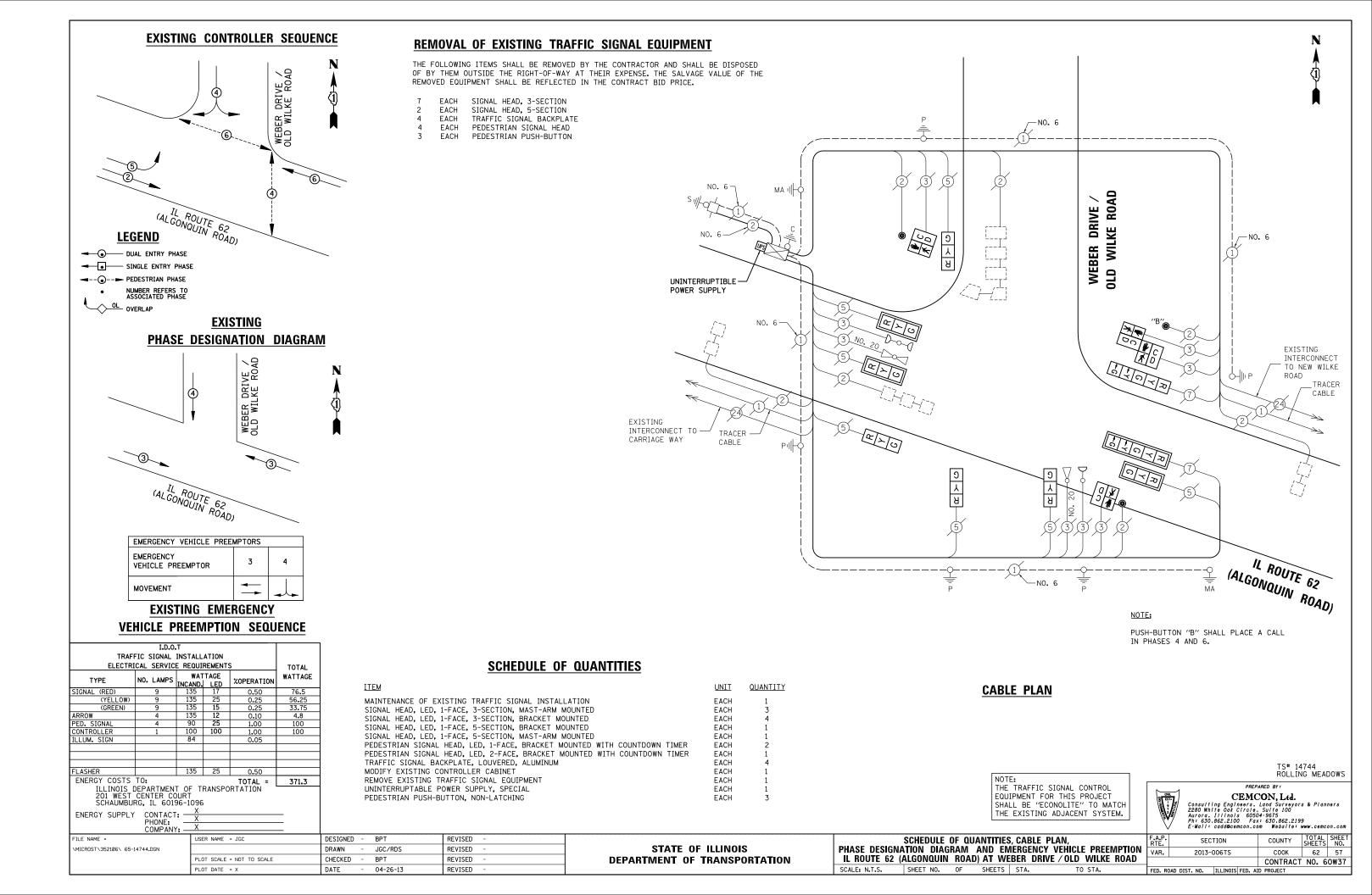


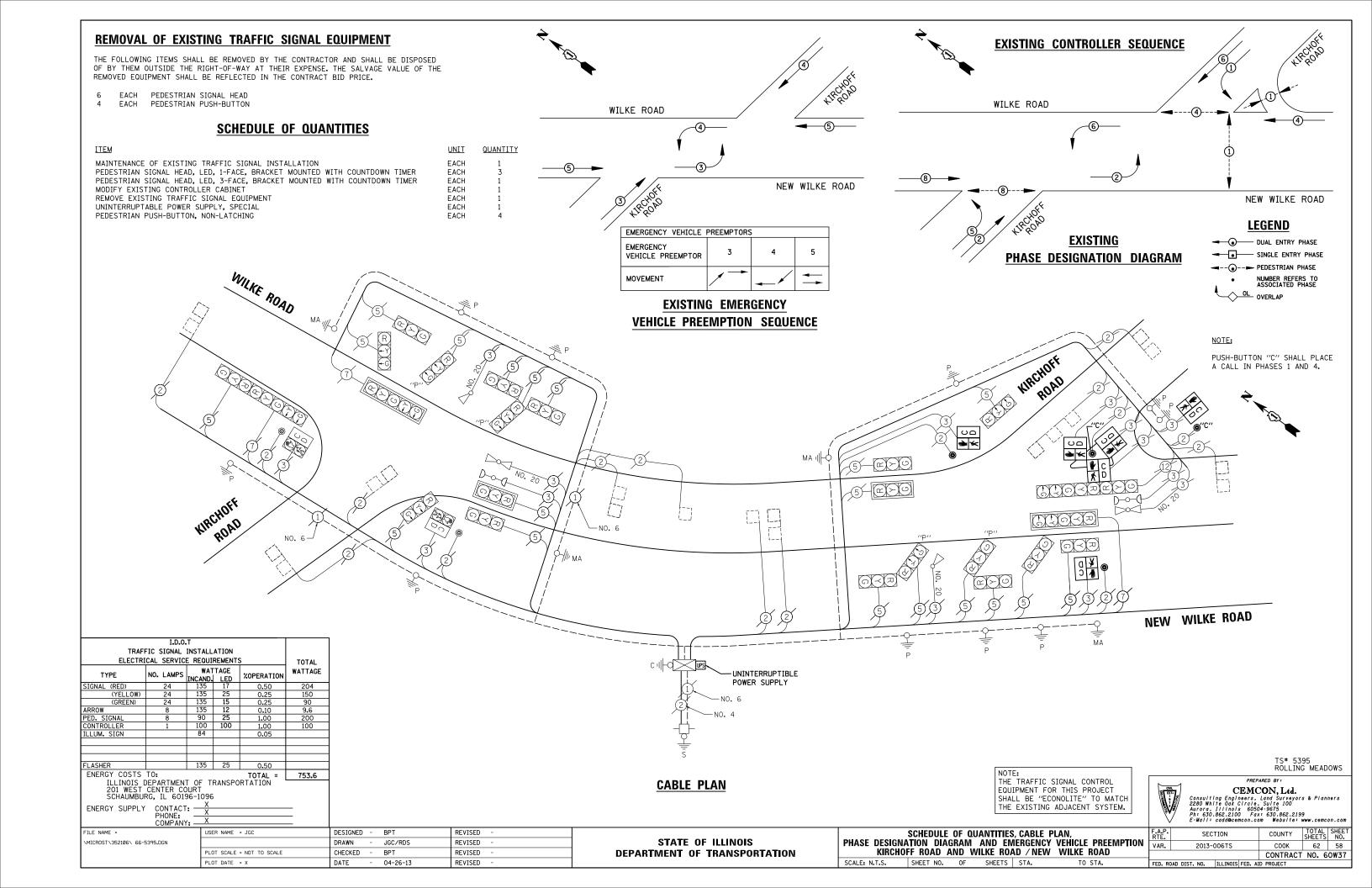
CEMCON, Ltd. Consulting Engineers. Land Surveyors & Planners 2280 White Oak Circle. Suite 100 Aurors. Illinois 6504-9675 Ph: 650.862.2100 Fax: 630.862.2199 E-Wall: caddbacemoon.com Website: www.cemcon.cc

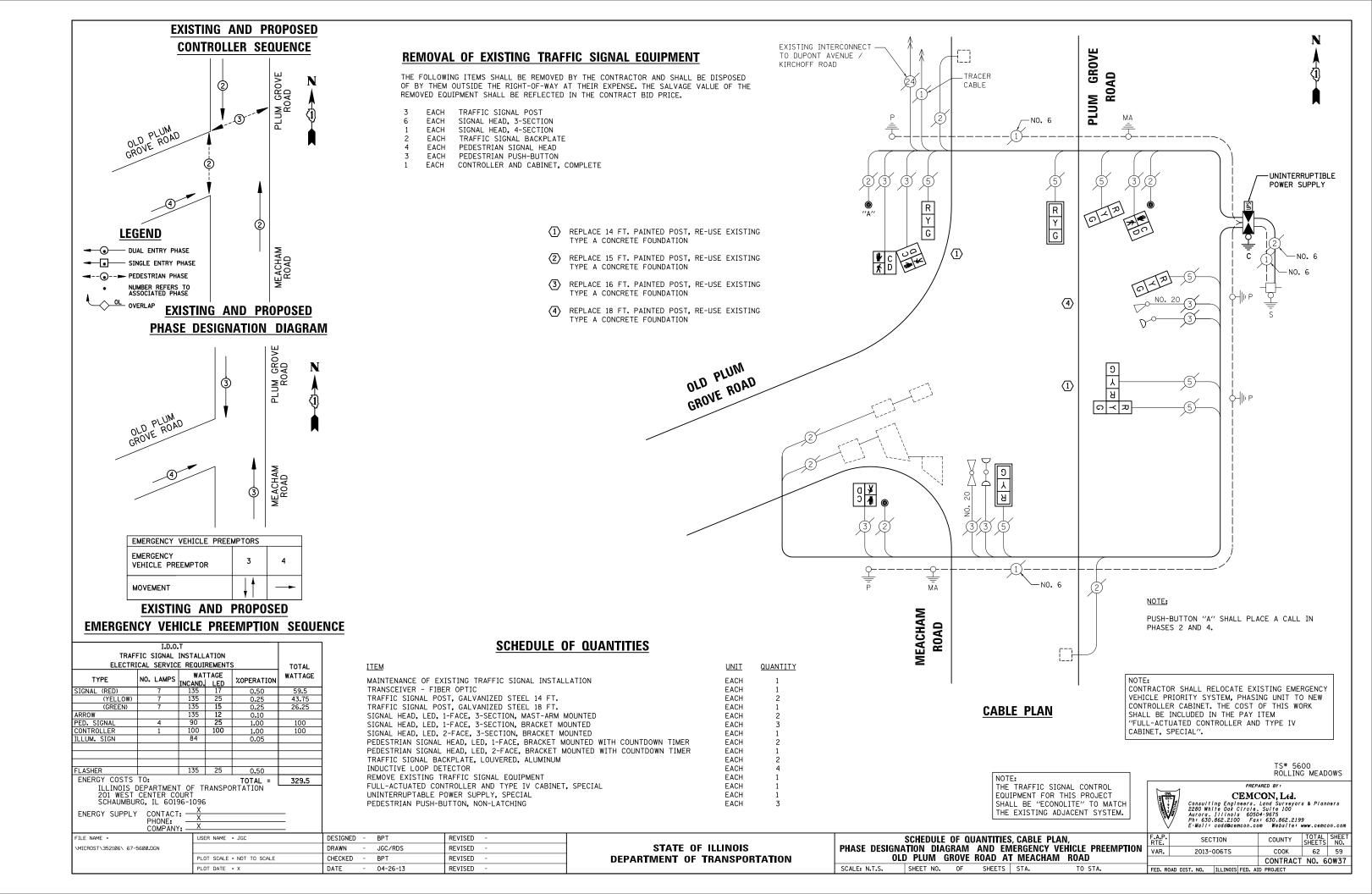
PREPARED BY

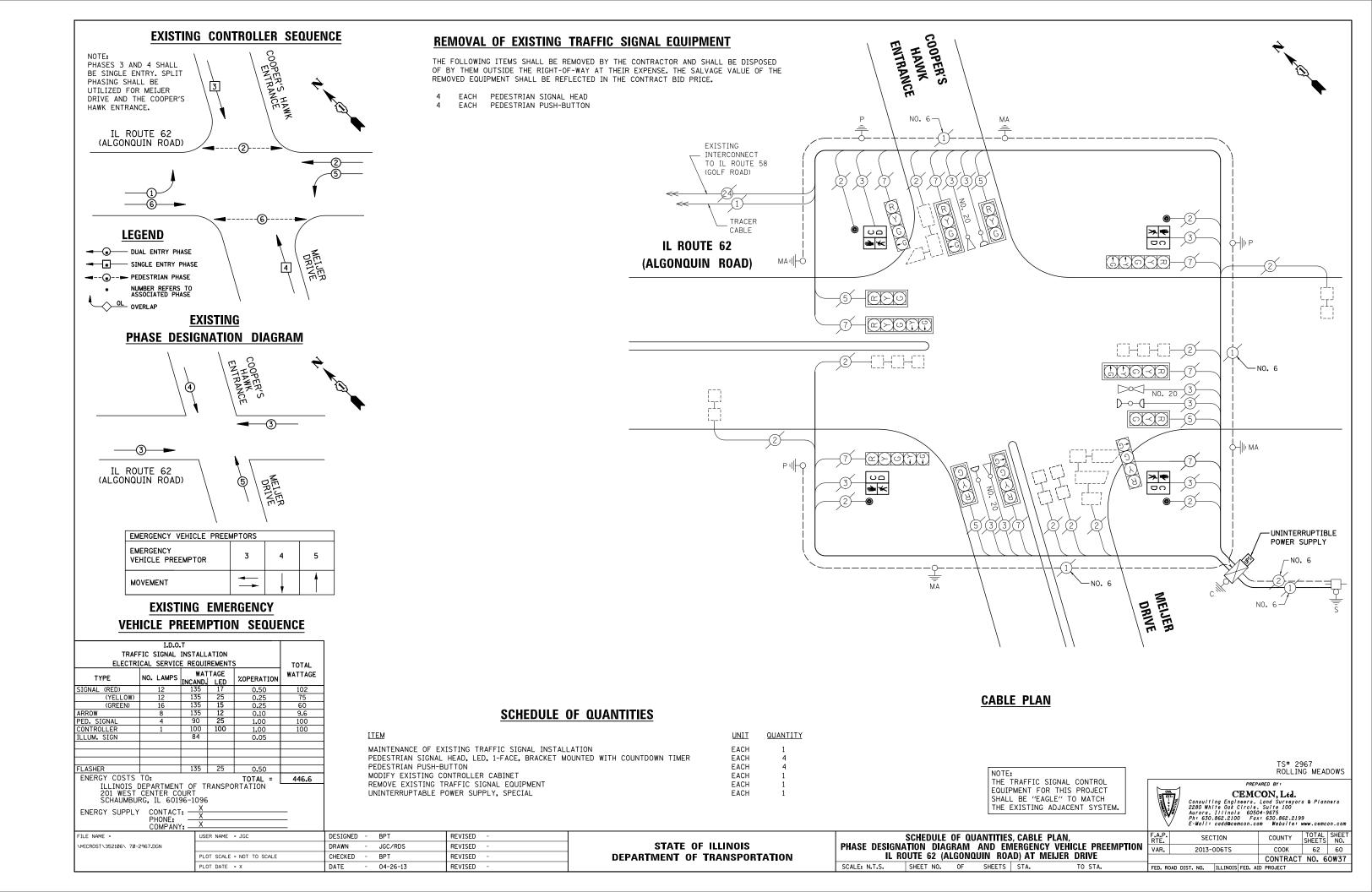
SECTION COUNTY COOK VAR. 2013-006TS 62 56 CONTRACT NO. 60W37

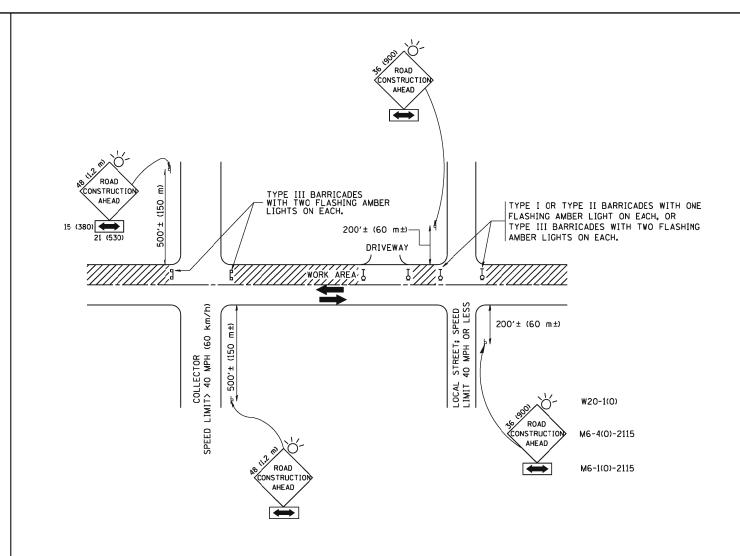
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCALE: N.T.S. SHEET NO. OF SHEETS STA.











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 LIM:T OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) 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 LIM'T GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) 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).

SCALE: NONE

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

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

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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

STATE OF ILLINOIS										
DEPARTMENT (OF TRANSPO	RTATION								

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS				
		VAR.	2013-006TS	COOK	62	61			
			TC-10		CONTRACT	NO. 6	60W37		
	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

