02-28-14 LETTING ITEM 120

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

IDOT STANDARDS:

STD. NO. 000001--06 STANDARD SYMBOLS, ABBREVIATIONS AND SYMBOLS 781001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE 701006-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24' (600 mm) FROM PAVEMENT EDGE 701101--04 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY 701106-02 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED 701502-06 URBAN LANE CLOSURE, 2L, 2W, BIDIRECTIONAL LEFT TURN LANE URBAN LANE CLOSURE, MULTILANE, IW, OR 2W WITH NONTRAVERSABLE MEDIAN URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 701701-09 URBAN LANE CLOSURE, MULTILANE INTERSECTION 701901-03 TRAFFIC CONTROL DEVICES 720001-01 SIGN PANEL MOUNTING DETAILS 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 862001--01 UNINTERRUPTABLE POWER SUPPLY (UPS)

TRAFFIC SIGNAL MOUNTING DETAILS

VARIOUS LOCATIONS IN CENTRAL COOK COUNTY LIGHT EMITTING DIODE (LED) INSTALLATION CONTRACT #3

> SECTION 2013-054TS COOK COUNTY C-91-052-14

> > CENTRAL COOK COUNTY LOCATION MAP SEE SHEET NO. 3

FOCE TO AND MENTY BUREAU LA SALLE GRAPO MALE MONTH MARCH LIVINGSTON INDOUDIS FORD WARSHALL WOODS FOR LIVINGSTON WARSHALL WOODS FOR LIVINGSTON WARSHALL WARSHALL WOODS FOR LIVINGSTON WARSHALL WA

VAR,

FED. ROAD DIST. NO.

2013-054TS

COUNTY

D-91-052-14

TS COOK 92 1
ILLINOIS CONTRACT NO. 60X29

0 100° 200° 300° -1° = 100° 10° 20° 30° -1° = 10° 0 50° 100° -1° = 50° 0 50° 100° -1° = 40° 0 50° 100° -1° = 30° 0 50° 100° -1° = 20°

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

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

PROJECT ENGINEER: SHAR-DAY SMITH (847) 705-4154 PROJECT MANAGER: SUDUD MAHMOUD (847) 705-4420

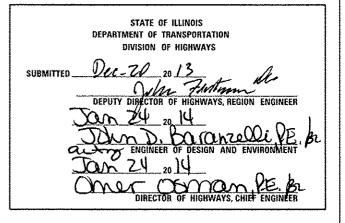
CONTRACT NO. 60X29

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PROJECTORED BY SECONDARY OF THE PROJECTOR OF THE PROJECTO





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          TS 4835
                        22ND ST/CERMAK RO @ RIDGELAND AVE
                        IL 43/HARLEM AVE & 22ND ST/CERMAK RD
           TS 2280
           TS 7950
                        IL 43/HARLEM AVE @ 32ND ST/ADDISON RD
          TS 5750
                        IL 38/ROOSEVELT RO & RIDGELAND AVE
                        US 34/OGDEN AVE & EAST AVE
                       OAK PARK AVE @ 16TH ST
22ND ST/CERMAK RD @ CERMAK PLAZA NORTH ENTRANCE/WENONAH AVE
          TS 7925
          TS 4795
                       22ND ST/CERNAK RD @ EAST AVE
22ND ST/CERNAK RD @ HOME AVE
           TS 4805
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                        22ND ST/CERMAK RO & LOMBARD AVE
22ND ST/CERMAK RD & OAK PARK AVE
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          TS 4830
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                        26TH ST & EAST AVE
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                        US 34/00DEN AVE & CLARENCE AVE
                       US 34/OGDEN AVE & CLINTON AVE US 34/OGDEN AVE & HOME AVE
          TS 5575
                       US 34/OGDEN AVE @ OAK PARK AVE
IL 38/ROOSEVELT RD @ EAST AVE
          TS 5520
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US 34/OGDEN AVE & EBERLE AVE/EAST AVE
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          TS 13870
                        SIST ST @ GOLFVIEW LN/CUTOFF TO IL 171/1ST AVE
                       47TH ST @ PLAINFIELD RD US 34/OGDEN AVE @ CUSTER AVE
          TS 3820
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                        US 34/OGDEN AVE & DUBOIS BLVD
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22ND ST/CERMAK RD & CENTRAL AVE
          TS 4785
          TS 4790
                       26TH ST & AUSTIN BLVD
OGDEN AVE & 31ST ST
          TS 12890
          TS 5555
          TS 5745
                        IL 38/ROOSEVELT RD @ MAYFIELD AVE/59TH AVE
                        US 34/000EN AVE & 25TH PL/26TH ST
          TS 5556
                        US 34/OGDEN AVE & CICERO AVE CONNECTOR RD
                        IL 50/CICERO AVE & IL 38/ROOSEVELT RO
IL 38/ROOSEVELT RO & AUSTIN AVE
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   90
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          TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS
           AND DRIVEWAYS (TC-10)
          TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN
   92
           OPEN TO TRAFFIC) (TC-14)
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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, PAVEMENT FTC 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 ALL EXISTING TRAFFIC SIGNAL AND PEDESTRIAN BRACKETS TO NEW POLYCARBONATE BRACKETS. 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.

ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

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 USABLE, REPLACE AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT ARE INDICATED FOR REPLACEMENT TO THE 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 UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

THE CONTRACTOR SHALL RELOCATE ANY EXISTING TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND PEDESTRIAN PUSH-BUTTONS FROM THE PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT, TO A NEW POST AS SHOWN ON THE PLANS, EXCEPT AS SHOWN TO BE REPLACED 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 PAY ITEM.

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, CONTRACTOR SHALL NOTIFY THE MUNICIPALITY AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE MUNICIPALITY 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 LOCATIONS:

TS# 4835 22ND STREET (CERMAK ROAD) AT RIDGELAND AVENUE

CITY OF BERWYN REDSPEED ILLINOIS 6700 26TH STREET 400 EISENHOWER LANE NORTH BERWYN, IL 60402 LOMBARD, IL 60148 708-788-2660 630-317-5720

TS# 2280 IL 43 (HARLEM AVENUE) AT 22ND STREET (CERMAK ROAD)

CITY OF BERWYN SAFESPEED, LLC 150 N. WACKER DRIVE 6700 26TH STREET RERWYN II 60402 CHICAGO IL 60606 877-237-2331 708~788~2660

TS# 7920 26TH STREET AT EAST AVENUE

CITY OF BERWYN REDSPEED ILLINOIS 6700 26TH STREET 400 EISENHOWER LANE NORTH BERWYN, IL 60402 LOMBARD, IL 60148 630-317-5720 708-788-2660

TS# 5000 IL 38 (ROOSEVELT ROAD) AT DESPLAINES AVENUE

VILLAGE OF FOREST PARK REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH 517 DES PLAINES AVENUE LOMBARD, IL 60148 FOREST PARK, IL 60130 708-366-2323 630-317-5720

TS# 2400 IL 38 (ROOSEVELT ROAD) AT IL 43 (HARLEM AVENUE)

VILLAGE OF FOREST PARK 517 DES PLAINES AVENUE FOREST PARK, IL 60130 708-366-2323

REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH LOMBARD, IL 60148

630-317-5720

VILLAGE OF OAK PARK 123 MADISON STREET OAK PARK, IL 60302 708-383-6400

CEMCON, Ltd. Consulting Engineers. Land Surveyors & Planners 2280 White Oak Circle. Suits 100 Aurors. Illinois 60504-9675 Ph. 630.862.2100 Fax. 630.862.2199 E-Mail: acadeacenco. acam Wabbits. www.osmoon.com

COUNTY

FILE NAME . USER NAME + JCC DESIGNED - BPT REVISED \MICROST\3521081 DRAWN RDS/JGC REVISED 02-INDEX.DGN PLOT SCALE = NOT TO SCALE CHECKED - BPT REVISED PLOT DATE * X 12-04-13 REVISED

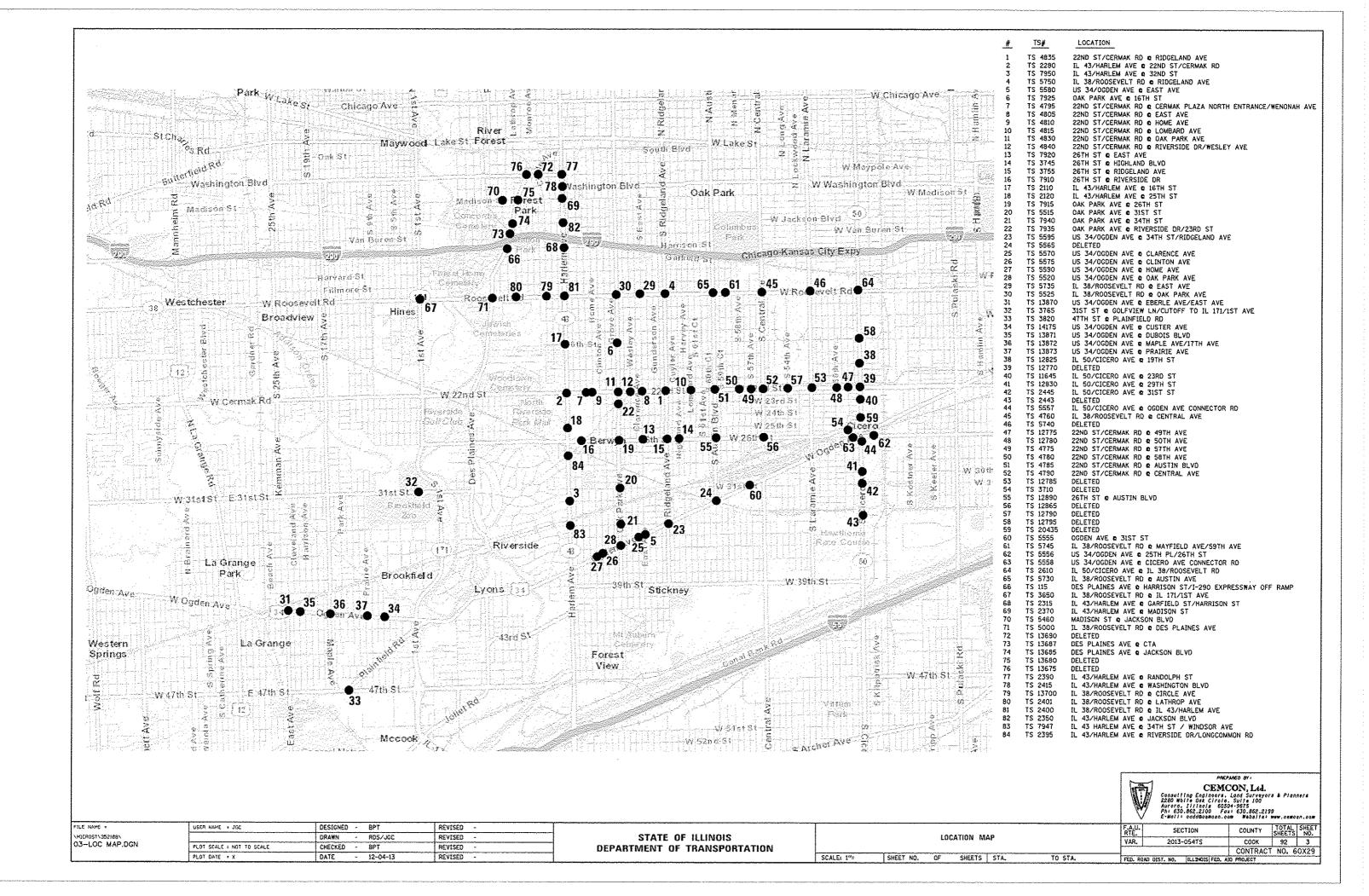
STATE OF HINDIS **DEPARTMENT OF TRANSPORTATION**

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SECTION

SHEET NO. OF SHEETS STA. TO STA.



SUMMARY OF QUANTITIES HEADING LEGEND FUNDING PARTICIPATION																	
LOCATION	COLUMN						NORTH		1	**************************************						FOREST	NSCMC 0/0 CONCORDIA
*	2	TS *	INTERSECTION	MUNICIPALITY	STATE	BERWYN	RIVERSIDE	CICERO	RIVERSIDE	OAK PARK	BROOKFIELD	LAGRANGE	MCCOOK	LYONS	CHICAGO	PARK	REALTY
1	1	4835	22ND ST/CERMAK RD & RIDGELAND AVE	BERWYN	100%	<u> </u>								-	ļ		<u> </u>
2	1	2280	IL 43/HARLEM AVE @ 22ND ST/CERMAK RD	BERYWN	100%		ļ		ļ	<u> </u>				ļ	 		ļ
3	11	7950	IL 43/HARLEM AVE @ 32ND ST	BERWYN	95%	5%			 	<u> </u>				-	1		-
4	1	5750	IL 38/ROOSEVELT RD @ RIDGELAND AVE	BERWYN	100%	<u> </u>			ļ	ļ					ļ		-
5	11	5580	US 34/OGDEN AVE C EAST AVE	BERWYN	95%	5%			ļ						<u> </u>		1
6	11	7925	OAK PARK AVE & 16TH ST	BERWYN	95%	5%			 	ļ	<u></u>						
7	19	4795	22ND ST/CERMAK RD & CERMAK PLAZA NORTH ENTRANCE/WENONAH AVE	BERWYN	95%		ļ		<u> </u>	 					[· · · · · · · · · · · · · · · · · · ·	5%
8	11	4805	22ND ST/CERMAK RD & EAST AVE	BERWYN	95%	5%			ļ	ļ	ļ			<u> </u>	ļ	····	
9	11	4810	22ND ST/CERMAK RD & HOME AVE	BERWYN	95%	5%	ļ		 	<u> </u>				1	<u> </u>		
10	11	4815	22ND ST/CERMAK RD & LOMBARD AVE	BERWYN	95%	5%			 	 					 		
11	1	4830	22ND ST/CERMAK RD @ OAK PARK AVE	BERWYN	100%	ļ <u></u> ,			<u> </u>					1	 		
12	11	4840	22ND ST/CERMAK RD & RIVERSIDE DR/WESLEY AVE	BERWYN	95%	5%			ļ						·		
13	11	7920	26TH ST @ EAST AVE	BERWYN	95%	5%			 	 	 			 	 		-
14	11	3745	26TH ST & HIGHLAND BLVD	BERWYN	95%	5%	 		1	<u> </u>	ļ			 	 		-
15	<u>,,</u>	3755	26TH ST @ RIDGELAND AVE	BERWYN	100%	£"/	 		<u> </u>	<u> </u>				1	 		1
16	11	7910	26TH ST & RIVERSIDE DR	SERWYN OF DIBYN	95%	5%	ļ		 	<u> </u>		······································		<u> </u>	 		
17	11 9	2110	IL 43/HARLEM AVE @ 16TH ST	BERWYN		3%	7 2"/		 								-
18		2120 7915	IL 43/HARLEM AVE @ 25TH ST	BERWYN	96.7%	 	3. 3%								 	· ···· · ··· · · · · · · · · · · · · ·	1
19	1	5515	OAK PARK AVE & 26TH ST OAK PARK AVE & 31ST ST	8ERWYN BERWYN	100%	<u> </u>	 		1.			· ···· · · · · · · · · · · · · · · · ·			1	 	
21	11	7940	OAK PARK AVE & 34TH ST	BERWYN	95%	5%									 		1
22	11	7935	OAK PARK AVE & STITE ST	BERWYN	95%	5% 5%			 	<u> </u>				 			1
23	4	5595	US 34/OGDEN AVE & 34TH ST/RIDGELAND AVE	BERWYN	100%	34	 		 	 					<u> </u>		-
24		5565	DELETED	DEMBIN	100%		 		 								1
25	11	5570	US 34/06DEN AVE & CLARENCE AVE	BERWYN	95%	5%			<u> </u>	<u>-</u>		·		 	 		
26	11	5575	US 34/OGDEN AVE & CLINTON AVE	BERWYN	95%	5%	 		 	<u> </u>				 			-
27	11	5590	US 34/0GDEN AVE & HOME AVE	BERWYN	95%	5%	 							<u> </u>			1
28	3	5520	US 34/OGDEN AVE & OAK PARK AVE	BERWYN	97.5%	2. 5%	 		 					 	, , , , , , , , , , , , , , , , , , , 		1
29	13	5735	IL 38/ROOSEVELT RD @ EAST AVE	BERWYN	95%	2. 5%	-		 	2, 5%				1			1
30	5	5525	IL 38/ROOSEVELT RD @ OAK PARK AVE	OAK PARK	97.5%					2.5%				<u> </u>			
31	6	13870	US 34/OGDEN AVE & EBERLE AVE/EAST AVE	BROOKF IELD	97.5%	<u> </u>					1. 25%	1. 25%		 			1
32	1	3765	31ST ST @ GOLFVIEW LN/CUTOFF TO IL 171/1ST AVE	BROOKF IELD	100%									<u> </u>			1
33	7	3820	47TH ST @ PLAINFIELD RD	MCCOOK	97.5%								2, 5%	†····			1
34	18	14175	US 34/0GDEN AVE & CUSTER AVE	BROOKFIELD/LYONS							2. 5%			2.5%			
35	17	13871	US 34/OGDEN AVE & DUBOIS BLVD	BROOKFIELD	95%			····		<u> </u>	5%						
36	17	13872	US 34/OGDEN AVE & MAPLE AVE/17TH AVE	BROOKFIELD	95%						5%				T		
37	17	13873	US 34/OGDEN AVE & PRAIRIE AVE	BROOKFIELD	95%						5%						
38	14	12825	IL 50/CICERO AVE & 19TH ST	CICERO	95%			5%									T
39		12770	DELETED														
40	14	11645	IL 50/CICERO AVE @ 23RO ST	CICERO	95%			5%									
41	14	12830	IL 50/CICERO AVE & 29TH ST	CICERO	95%			5%									
42	4	2445	IL 50/CICERO AVE @ 31ST ST	CICERO	97.5%			2. 5%									
43		2443	DELETED														
44	1		IL 50/CICERO AVE & OGDEN AVE CONNECTOR RD	CICERO	100%												
45	4	4760	IL 38/ROOSEVELT RD & CENTRAL AVE	CICERO	97.5%			2. 5%									
46		5740	DELETED												ļ		
47	14	12775	22ND ST/CERMAK RD & 49TH AVE	CICERO	95%			5%									
48	14		22ND ST/CERMAK RD @ 50TH AVE	CICERO	95%			5%									
49	14	4775	22ND ST/CERMAK RD & 57TH AVE	CICERO	95%			5%							<u> </u>		
50	14	4780	22ND ST/CERMAK RD @ 58TH AVE	CICERO	95%			5%									
51	14	4785	22ND ST/CERMAK RD @ AUSTIN BLVD	CICERO	95%			5%									***************************************
52	14	4790	22ND ST/CERMAK RD @ CENTRAL AVE	CICERO	95%			5%									
53		12785	DELETED														***************************************
54		3710	DELETEO														
55	14	12890	26TH ST @ AUSTIN BLVD	CICERO	95%			5%									
56		12865	DELETED		<u> </u>												

FILE NAME «	USER NAME . JGC	DESIGNED -	8PT	REVISED -	
\MICROST\352188\		DRAWN -	RDS/JGC	REVISED -	İ
04-SUMMARY,DGN	PLOT SCALE : NOT TO SCALE	CHECKED -	8PT	REVISED -	
	PLOT DATE * X	DATE -	12-04-13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			RY OF QUA		
SCALE: 1"=20"	SHEET NO.	QF	SHEETS	STA.	TO STAL

	PREPARED BY:
•	CEMCON, Led.
	Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suits 100
7	Auroro, Illinois 60504-9675 Phi 630.862,2100 Faxi 630.862,2199
	E-Mail: gaddagemoon.com Nebelte: www.gemoon.com
_	*******

RIE.		SE	CTION			COUNT	ΓY	TOTAL	S NO.	
VAR.		2013	3-054TS		T	COO	K	92	4	٦
					Т	CONT	RACT	NO.	60X29	٦
 FED. ROA	O DIST.	NO.	ILL DIOE	FED.	AID	PROJECT				J

				SUMM			ADING LEGEN	D	 	······································							
				·	FUNDIN	G PARTICIPA	ATION										
OCATION	COLUMN	TS •	INTERSECTION	MUNICIPALITY	STATE	BERWYN	NORTH RIVERSIDE	CICERO	RIVERSIDE	OAK PARK	BROOKFIELD	LAGRANGE	мссоок	LYONS	CHICAGO	FOREST PARK	NSCMC 0/0 CONCORDIA REALTY
57		12790	DELETEO			-			1					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
58		12795	DELETED														
59		20435	DELETED								1						
60	14	5555	OGDEN AVE & BIST ST	CICERO	95%	1		5%									
61	14	5745	IL 38/ROOSEVELT RD & MAYFIELD AVE/S9TH AVE	CICERO	95%			5%									
62	1	5556	US 34/OGDEN AVE @ 25TH PL/26TH ST	CICERO	100%												
63 .	1	5558	US 34/OGDEN AVE @ CICERO AVE CONNECTOR RD	CICERO	100%	1											
64	1	2610	IL 50/CICERO AVE & IL 38/ROOSEVELT RO	CICERO/CHICAGO	100%	-											
65	15	5730	IL 38/ROOSEVELT RD @ AUSTIN AVE	CICERO/CHICAGO	95%			2. 5%							2. 5%	······································	
66	2	115	DES PLAINES AVE & HARRISON ST/I-290 EXPRESSWAY OFF RAMP	FOREST PARK	98%											2/.	
67	1	3650	IL 38/ROOSEVELT RD & IL 171/1ST AVE	FOREST PARK	100%												
68	16	2315	IL 43/HARLEM AVE & GARFIELD ST/HARRISON ST	FOREST PARK/OAK PARK	95%					2,5%						2. 5%	
69	16	2370	IL 43/HARLEM AVE & MADISON ST	FOREST PARK/OAK PARK	95%	-				2. 5%						2. 5%	****
70	10	5460	MADISON ST O JACKSON BLVD	FOREST PARK	96. 7%											3. 3%	
71	1	5000	IL 38/ROOSEVELT RD & DES PLAINES AVE	FOREST PARK	100%												
72		13690	DELETED	***************************************													
73	10	13687	DES PLAINES AVE & CTA	FOREST PARK	96. 7%											3. 3%	
74	20	13685	DES PLAINES AVE & JACKSON BLVD	FOREST PARK	95%											5%	
75		13680	DELETED														
76		13675	DELETED														
77	5	2390	IL 43/HARLEM AVE & RANDOLPH ST	OAK PARK	97.5%					2. 5%							
78	8	2415	IL 43/HARLEM AVE & WASHINGTON BLVD	FOREST PARK	97.5%							·				2. 5%	-
79	20	13700	IL 38/ROOSEVELT RD & CIRCLE AVE	FOREST PARK	95%											5%	
80	20	2401	IL 38/ROOSEVELT RD & LATHROP AVE	FOREST PARK	95%											5%	
81	1	2400	IL 38/ROOSEVELT RD @ IL 43/HARLEM AVE	FOREST PARK/OAK PARK	100%						-						
82	16	2350	IL 43/HARLEM AVE & JACKSON BLVD	FOREST PARK/OAK PARK	95%					2.5%						2. 5%	
83	21	7947	IL 43 HARLEM AVE & 34TH ST / WINDSOR AVE	RIVERSIDE/BERYWN	92. 5%	3. 75%			3. 75%		***************************************						
84	12	2395	IL 43/HARLEM AVE & RIVERSIDE DR/LONGCOMMON RO	RIVERSIDE	95%	2.5%			2. 5%		***************************************						

-	
	Consulf 2280 Wh
**	Aurora. Ph: 630 E-Wall:

TO STA.

PREPARED BY:

CEMCON, Led.

Consulting Engineers, Lond Surveyors & Planners
2280 Whits Gat Cirols, Suite 100
Autora, Itlinois S0504-9675
Pt: 503-652,2100 Fax: 503-652,2199
E-Wall: cadd@cemcon.com Webelte: www.cemcon.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 2 OF 6)

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

F.A.U. RTE.	SEC	TION		COUNTY	TOTAL SHEET:	
VAR.	2013-1	054TS		COOK	92	5
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			CONTRACT	NO.	60X29
FED. R	OAD DIST, NO.	ILLINOIS FEE	, AID	PROJECT		

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									<i></i>	cc	ONST	RUCT	ION	CODE	002	21						
CODE	***************************************		TOTAL	* ~ U																		
NUMBER	ITEM	UNIT	QUANTITY	-		,					- 	U	RBAN	√ 			 -			····	····	
				<u> </u>						ļ									_		<u> </u>	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	_		_		_										-			
				1	ļ			_			ļ								1			
67100100	MOBILIZATION	L SUM	1	1	-					***************************************	ļ							\bot				
ļ		<u> </u>							_	-					-			<u> </u>			_	_
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	4	1					Approximate and a second	-	ļ							<u> </u>				
			***************************************						wa.	_	-							-	11			
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	71	16	1	1	2	2	1 1	1	1	2	16	1	1	12	1 3	3	1	1	3	1
			and the state of t	<u> </u>	-				_						.							
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	8	1					_	***************************************	<u> </u>		4			2		1		_		
		ļ		ļ					_	***************************************	-		***************************************			\perp		-	-	\dashv		_
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	80	12		3			3	***	1		33	5		9	+	2		1		11
				 						***************************************	ļ		***				_		1		+	\dashv
87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	4				_	+		-			***			2					_	2
								_		-	-							-			_	_
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	42	12			_		-	-	1.00		11			9 2	2	4		1	2	_
2001540	CIONAL USAD LED 7 SACE 0 7 SECTION 1 A SECTION DELOYET MAINTE	5400	4	-						-						-		-	-		+	4
88001640	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	1	1			\dashv			-	***************************************		_	-			-	+-		+	+	_
99030000	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	79	6		6		4	3	-	***************************************		24	_		19 4	_	4		_	+	_
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, WAST-ARM MOUNTED	EACH	13	°		6	-	-		-	1		24	-	2	15	- 	+-	-	2	2	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	74	11				-	3 4	-	4		35	2	2			4		2	2	
000000	DECEMBER A FROST DECITIONS DIMONES HIGHIED	LAVII		* *					+		-	-	77	-	-	1	-	+-	\vdash	-	4	
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1	1									****			-	+	+		+		
	Carrie Held, Lay a river , Section, Seponer mounted	-741		<u> </u>	 		-	-		 	-					-	+	-		+		
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	2			***************************************	-			 						2	+	+		-		
		744	~				+			+						+	+	+		-	-	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	25	2				4					6		2	4 4	+	+		1	2	
				 		\dashv	-		+	-	***************************************			***************************************	_	-	-	+-		+	-	
		<u></u>	L	L	<u> </u>						<u>. </u>											

E NAME .	USER NAME + JCC	DESIGNED	~	BPT	REVISED	*
ICR0ST\3521Ø8\		DRAWN	-	RDS/JCC	REVISED	*
B-SUMMARY.DGN	PLOT SCALE : NOT TO SCALE	CHECKED	-	8PT	REVISED	
	PLOT DATE > X	DATE	-	12-04-13	REVISED	-

STATI	E OF	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

S		RY OF QUANTITIES HEET 3 OF 6)	
NO.	ΩF	SHEETS STA	ΤÓ

		PREPARED BY:		
V	CE: Consulting Enginee 2280 White Ock Cir Aurora, Illinois Ph: 630.852.2100 E-Wall: caddboomco	ela, Sulta 100 60504-9675 Fazi 630,862,21	98	
-	SECTION	COUNTY	TOTAL	SHEET NO.
	2013-054TS	COOK	92	6
		00417040	T NO C	0400

F.A.U. RTE. VAR. O STA. SCALE: 1"=20" SHEET N

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• ***		<u> </u>					_								-	1				
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	54	6			4	3	1		1	1	1	2	16	4		4		2
22272212	CIONAL USAR LER A FLORE 3 GEOTIAN SOLOVET MONTER	6101	70	9			-						_		+_	-			***************************************	
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	38	9		4	-		1			9	+	4 2	8				**********	-
88030220	SIGNAL HEAD, LED, 2-FACE, 5 SECTION, BRACKET MOUNTED	EACH	2	2				-		***************************************			+		-				1	
88030230	SIGNAL HEAD, LED. 2-FACE. 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2								***************************************				S					
		waaaaaaa		***************************************			-													
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	32	4				3	+	***************************************	1	5	-		12	-		4	2	
88030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5				-	╂		-	1	4			-				-	
															†					
88030330	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1				_			***************************************			<u></u>						1	
88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	2	**************************************		-	***************************************		***************************************		1	-					1		
													1							
88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10	3				<u> </u>				2	1		2			3		
88055190	OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1					ļ					+		-			1		
00000120	of Florida Figure 11.00, 1 thought of the first thought of the first thought the first the first thought the first thought the first thought the first thought the first thoug	4,501	1					-		\dashv		-	+		1			1	+-	
88055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3			***************************************			***************************************				+		2			1		
		W. 1000000000000000000000000000000000000																		
88055370	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1				-	<u> </u>		_			-		1					
88060110	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	2			arratta and was a survey of the survey of th		***************************************	Andrew Committee	***************************************	+		-	+	2	-				
							-				1		+	1	†			_		
88060405	COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1		PARAMETERARING							***************************************			1		And the first Annual control of the state of			
						$\neg \vdash$	***************************************		1	1			+				***************************************			

									V		60504-9675 Fax: 630.862.2:	ora & Pien 199	1
	DEER NAME + JOC	DESIGNED -	8PT	REVISED -		en	JMMARY OF QUANTITIES	······	F.A.U.	SECTION	COUNTY	TOTAL	SHEET
		DRAWN -	RDS/JGC	REVISED -	STATE OF ILLINOIS	30	(SHEET 4 OF 6)		YAR.	2013-054TS	соок	995	7
GN	PLOT SCALE : NOT TO SCALE	CHECKED -	BPT	REVISED -	DEPARTMENT OF TRANSPORTATION		(SUCC) 4 OL 0)		TAIL	2013-03413	CONTRAC	CT NO 6	10X29
	PLOT DATE + X	DATE -	12-04-13	REVISED -		SCALE: 1"=20' SHEET NO.	OF SHEETS STA.	TO STA.	FED. ROAD D	DIST. NO. ILLINOIS FEE		0, ,10.	OVER

FILE NAME . \MICROST\352188\ 07-SUMMARY.DGN

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CODE			TOTAL	w								TRAF	FIC	SIG	NAL							
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		VI-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	es de la companya de	***************************************		***************************************						***************************************			***************************************							
88060410	COMBINATION SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1	***************************************		****							1	-								
		***************************************	***	***************************************		***************************************						***************************************		***************************************								
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	130	28	4	8	8	4		2	2 2	4	33	2 8	2	12		2	10		4	
		- Anna									-			***************************************								
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	82	12	2			6		3			18	3	3	4	4	11	7 4		8	

88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	149	15		6		8	3	4	2		37	7 2	4	42	8		12	2	4	
							***************************************				***************************************		***************************************			-			***************************************			
88800100	PEDESTRIAN PUSH-BUTTON	EACH	178	42		8	8				2	4	58	3 8		42				2	4	
													***************************************		T	***************************************			***************************************			
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	64	15	1	1	1	2		1	1	2	16	5 1	1	9	1	3	3 1	1	3	

89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	68	14	1	1	1	2	1	1		2	16	3 1	1	12	1	3	3 1	1	3	1
				***************************************														-				
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1									-	1									
		-		***************************************			-		-			ne-construction of the construction of the con				-						
X8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	5	***					***	1		- Anna Anna Anna Anna Anna Anna Anna Ann	1			1		1				
			***	-								**************************************						-				
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	59	14	1	1	1	2	-		1 1	. 2	15	5 1	1	8	1	2	3 1	1	3	
		-							***************************************													
X8880015	PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	130	21	6			10	4	4		waan	33	3	5	13	4	8	10 4		8	
												***************************************		1								
X8803040	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1	1					***************************************			***************************************	T									
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X8803051	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1	1								***************************************				1						
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X8803081	SIGNAL HEAD, LED, 1-FACE, 3 SECTION, HORIZONTAL MOUNTED, RETROFIT	EACH	3	3				-	***************************************		***************************************		1	***************************************		1						
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	PREPARED BY:
1 m	CEMCON, Led.
	Consuiting Engineers, Lond Surveyors & Planners 2280 White Oak Circle, Suite 100
W	Auroro, 111100/8 80504-9675 Ph: 630.862,2100 Fox: 630,862.2199
1 V	E-Mali: baddabemoon.com Mebsite: www.bemson.c

FILE NAME *	USER NAME + JGC	DESIGNED -	8PT	REVISED -
\MICROST\352108\		DRAWN -	RDS/JGC	REVISED -
08-SUMMARY.DGN	PLOT SCALE : NOT TO SCALE	CHECKED -	BPT	REVISED -
	PLOT DATE . X	DATE -	12-04-13	REVISED -

STATE	OF ILLINOIS	
DEPARTMENT (OF TRANSPORTATION	

	S		ARY OF QUANTITIES CHEET 5 OF 6)	
SCALE: 1"=20"	SHEET NO.	OF	SHEETS STA.	TO STA.

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	F.A.U. RTE.	SE	CTION			COUNTY	TOTAL	SHEET NO.
	VAR.	2013	-054TS		T	COOK	92	8
_					T	CONTRACT	NO. 6	OX29
	FED. ROAL	DIST. NO.	(LLINOIS	FEO.	AID	PROJECT		

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CODE		ener-reneration de la constant de la	TOTAL								•	TRAFF	ic s	IGNA	L							
NUMBER	ITEM	UNIT	QUANTITY	-									URBAI	N					·			
		***************************************															***************************************					
X8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	24	6				-					2			4		4	4		4	
				-				***************************************								************	***************************************					
X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	58	22				4		4	4		6			***************************************	4	8	8		2	
						-									Andrew arterior to	***************************************	***************************************					
X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	17	1				4			4	- Annie of the Section of the Sectio	2				4				2	
						***************************************									-							
X8803090	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	5	1		***************************************						***************************************		-	***************************************	4						
		-										***************************************			***************************************							
X8803210	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	17	1				4		4	4	***************************************	2	***************************************			4				2	
		No. of Contract of	Anna anna anna anna anna anna anna anna	***************************************		Material					***************************************	***************************************		***************************************								
X8807665	SIGNAL HEAD, LED, 1-SECTION, POST MOUNTED, RETROFIT	EACH	2	2	***************************************		***************************************				***************************************											
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500	*****											-						
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\$ 0042

PREPARED BY.

CEMCON, Led.

Consulting Engineers, Lond Surveyors & Planners

280 White Engineers, Edna Surveyors & Planners

Autorio, Illinois (5504-987)

Ph. 550.682.2100 Fazi 550.862.2199

E-Mail: caddocsman.com Nebalis: www.camoon.com

FILE NAME = \MICROST\352188\ 08-SUMMARY.DGN

USER NAME + JGC	DESIGNED	*.	Bb1	REVISED ~
	DRAWN	•	RDS/JGC	REVISED -
PLOT SCALE = NOT TO SCALE	CHECKED	-	8PT	REVISED -
PLDT DATE . X	DATE	-	12-04-13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SUMMARY OF QUANTITIES (SHEET 6 OF 6)	
SCALE: 1"=20"	SHEET NO. OF SHEETS STA.	TO STA.

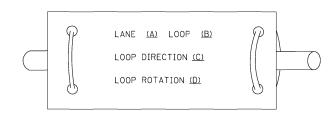
F.A.U. RTE.	52	CTION		T	COUNTY	TOTAL	SHEET
VAR.	2013	-054TS			COOK	92	9
					CONTRACT	NO.	60X29
FED. RO	AD DIST. NO.	(LLINOIS	FED.	AID	PROJECT		

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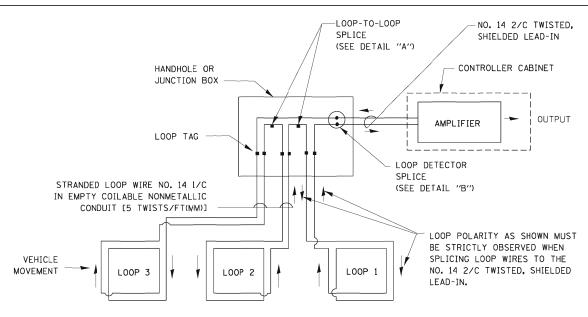
LOOP DETECTOR NOTES

- 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

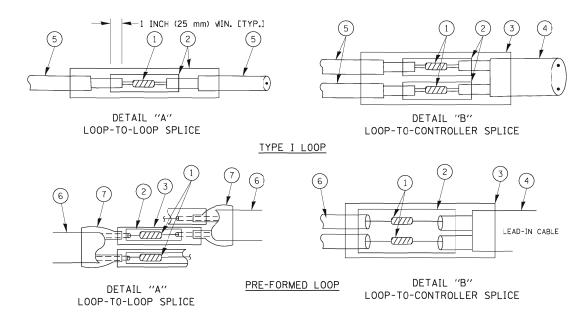


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



LOOP DETECTOR SPLICE

- $\ensuremath{\mathbb{1}}$ western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, WINIMUM 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

ST SCALE:

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

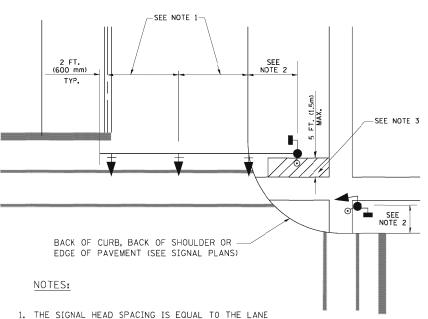
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STATE	0F	ILLINOIS
DEPARTMENT (OF 1	TRANSPORTATION

DISTRICT ON	F. R	A.P. SECTION	COUNTY	TOTAL	SHEET NO.
TANDARD TRAFFIC SIGNAL	DESIGN DETAILS	/AR. 2013-054T	S COOK	92	10
7,11871118 7117111111 01011112	BESTON BETAILS		CONTRACT	NO. 6	SOX29
SHEET NO. 1 OF 6 SHEETS ST	TO STA. FE	ED. ROAD DIST. NO. ILLIN	IOIS FED. AID PROJECT		

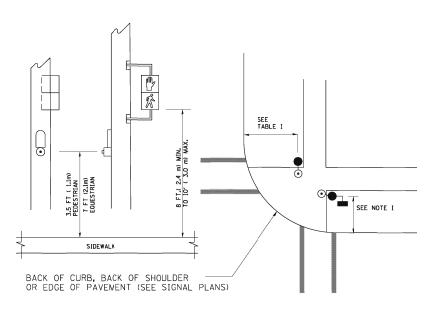
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



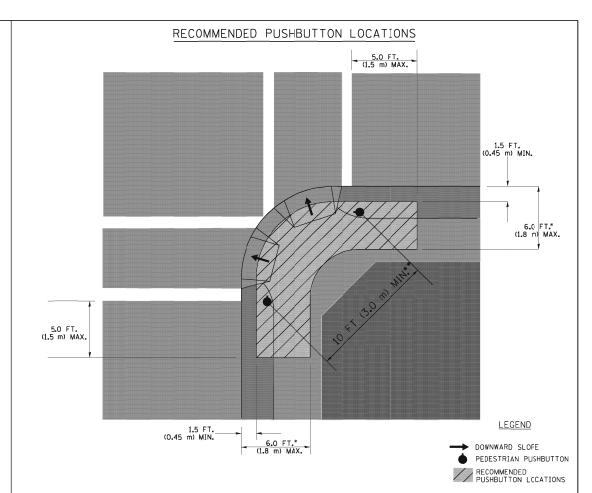
- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE: UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF 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 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, CR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICJLAR 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 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.
- 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:

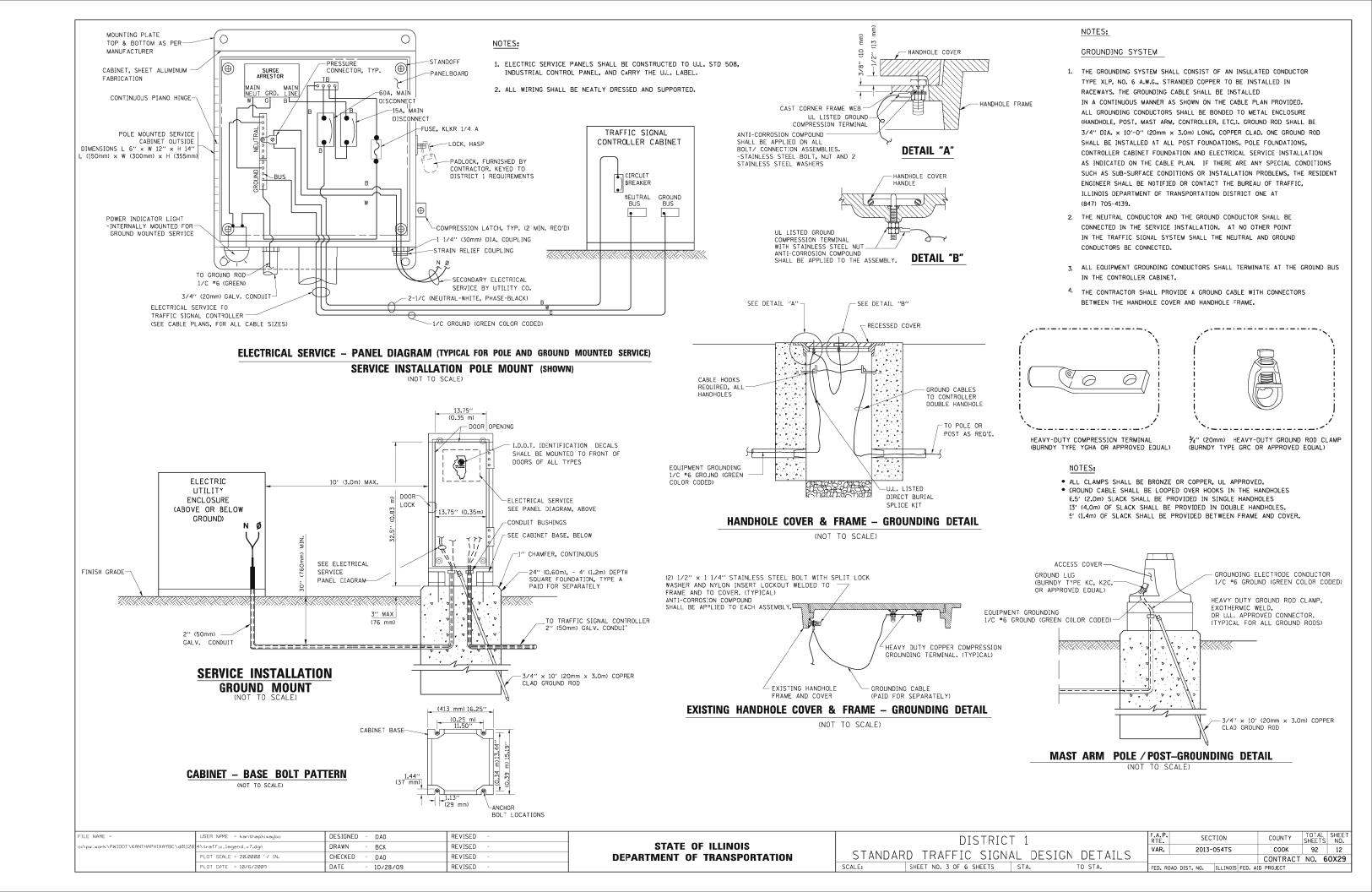
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 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.

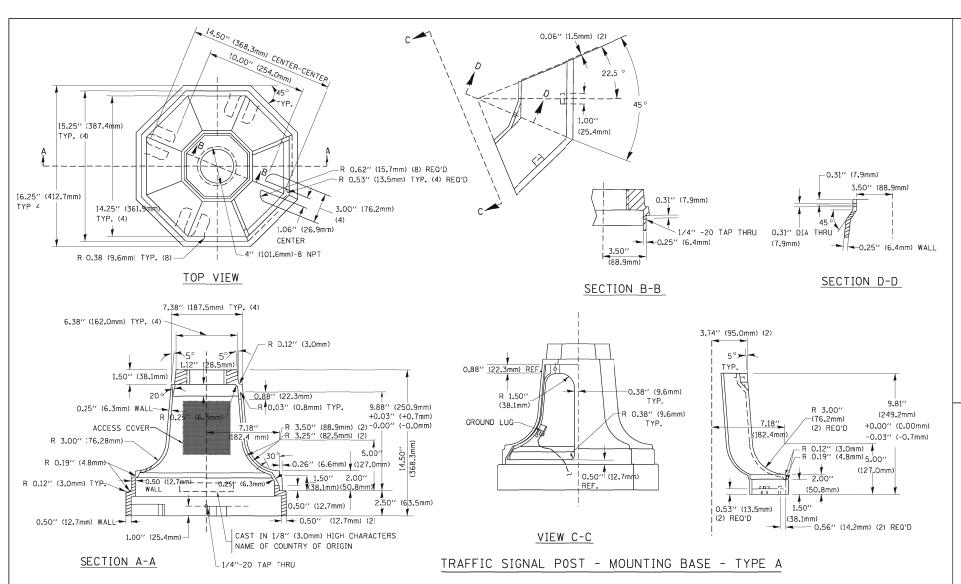
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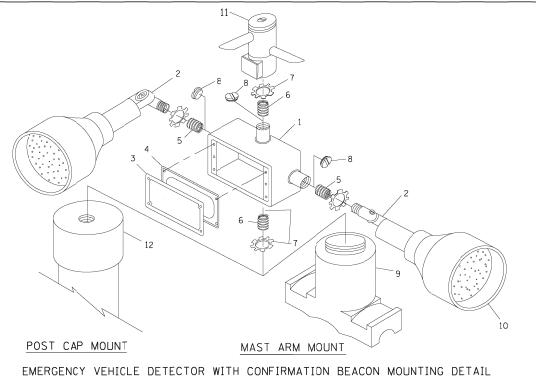
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	DISTRICT	1		F.A.P. RTE.	SEC ²	TION	COUNTY	TOTAL SHEETS	
STANDARD) TRAFFIC SIGNA	I DESIGN	DETAILS	VAR.	2013-0	054TS	соок	92	11
STANDARD	<u> Traffic Signa</u>	L DESIGN	DETAILS				CONTRACT	NO.	60X29
ALE:	SHEET NO. 2 OF 6 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO.	ILLINOIS FED. A	ID PROJECT		



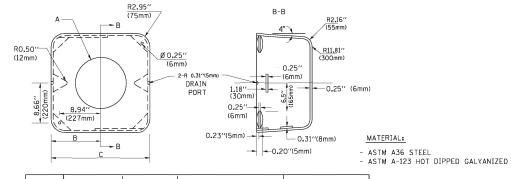




ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4''(19 mm) CLOSE NIPPLE
7	3/4''(19 mm) LOCKNUT
8	3/4''(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
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
- 5. 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 34"(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.

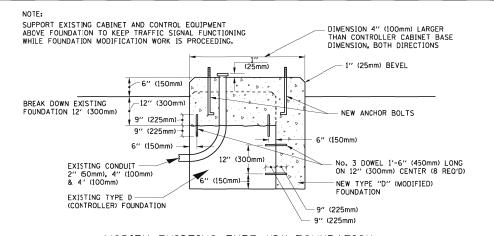


Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

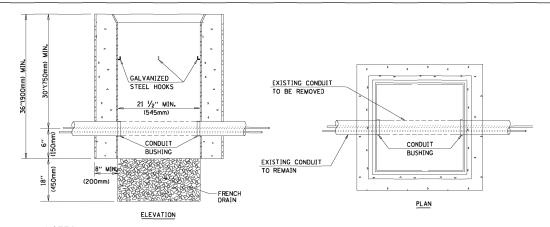
SHROUD

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.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

ST

SCALE:

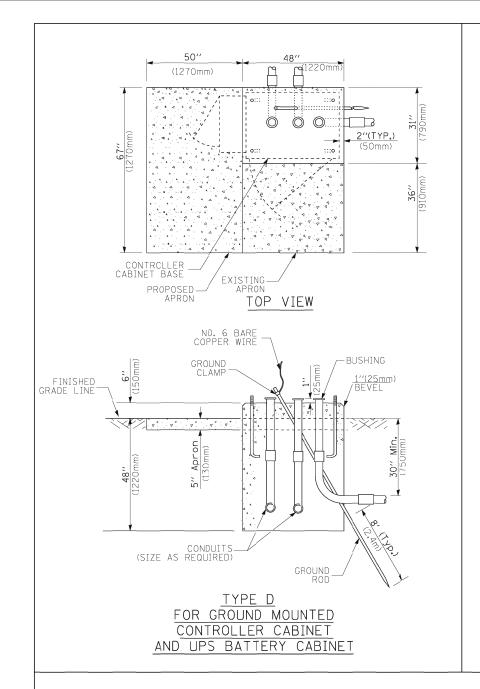
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

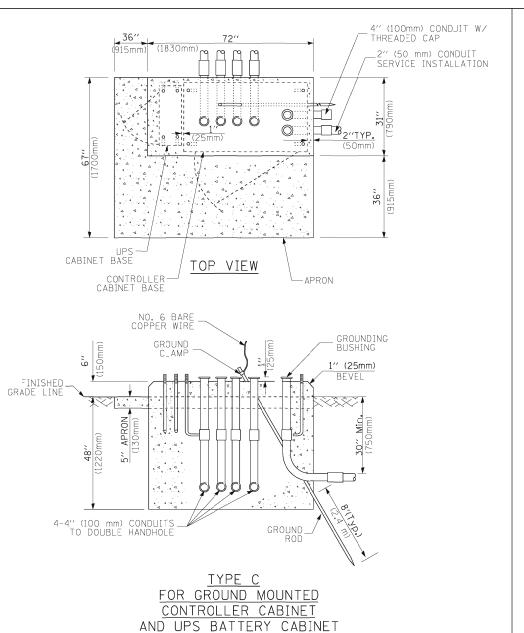
HANDHOLE TO INTERCEPT EXISTING CONDUIT

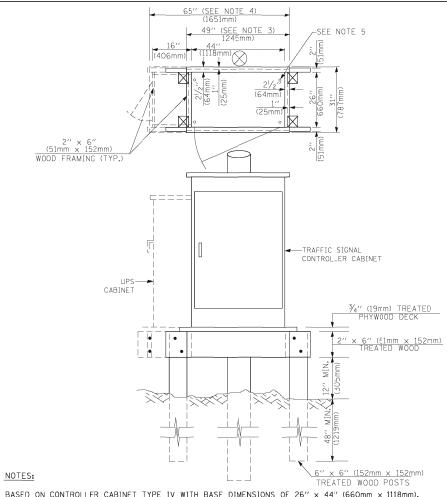
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT	1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TANDARD TRAFFIC SIGNA	J DESIGN DE	TATIS VAR.	2013-054TS	COOK	92	13
TANDARD TRAFFIC SIGNA	AL DESIGN DE	TAILS		CONTRACT	NO. 6	0X29
SHEET NO. 4 OF 6 SHEETS	STA. TO ST	A. FED. RO	DAD DIST. NO. ILLINOIS FED. A	ID PROJECT		







- 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
- TOTAL TOTAL CONTROL OF THE STATE OF THE ST		

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	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:

- 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

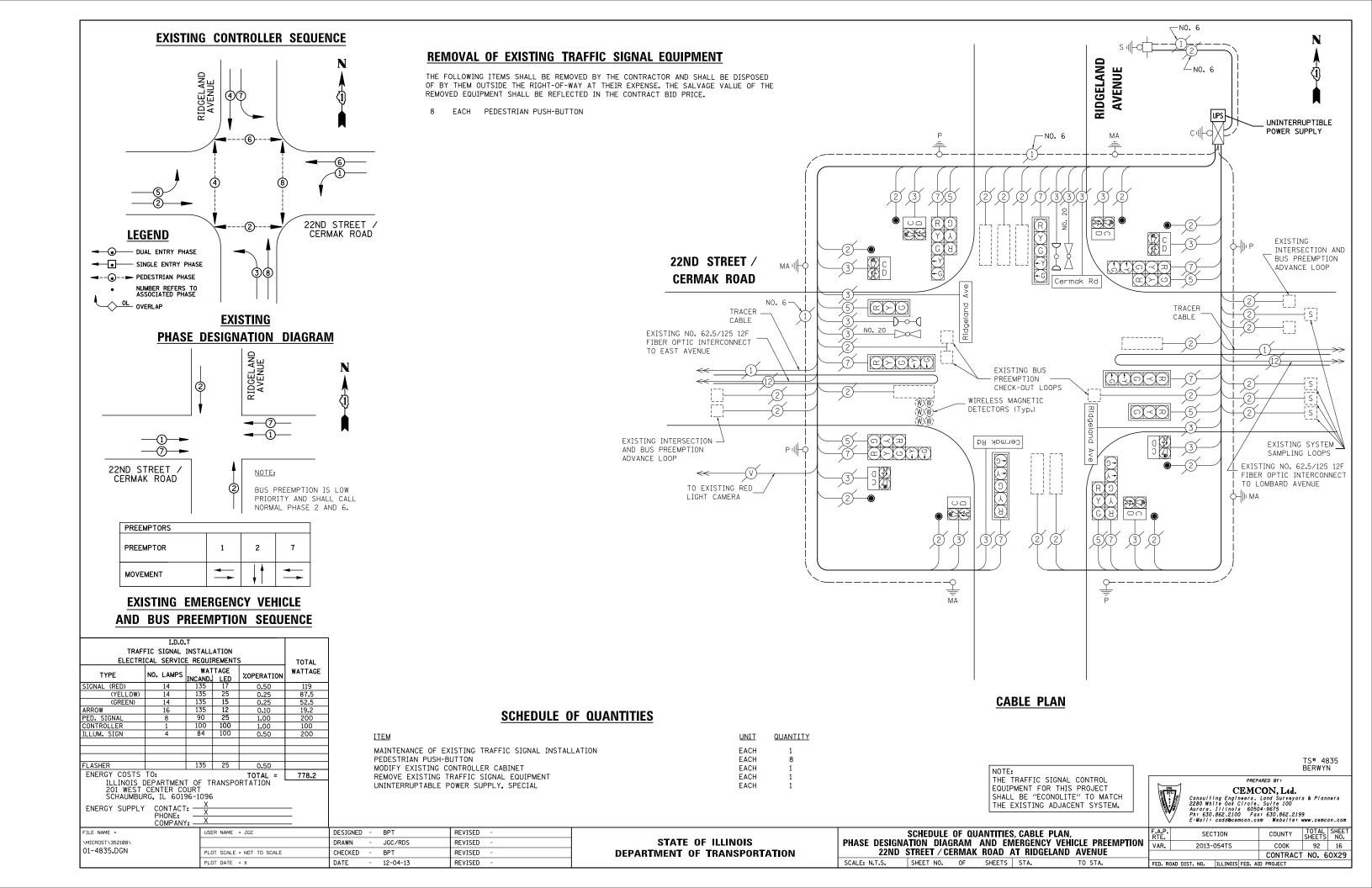
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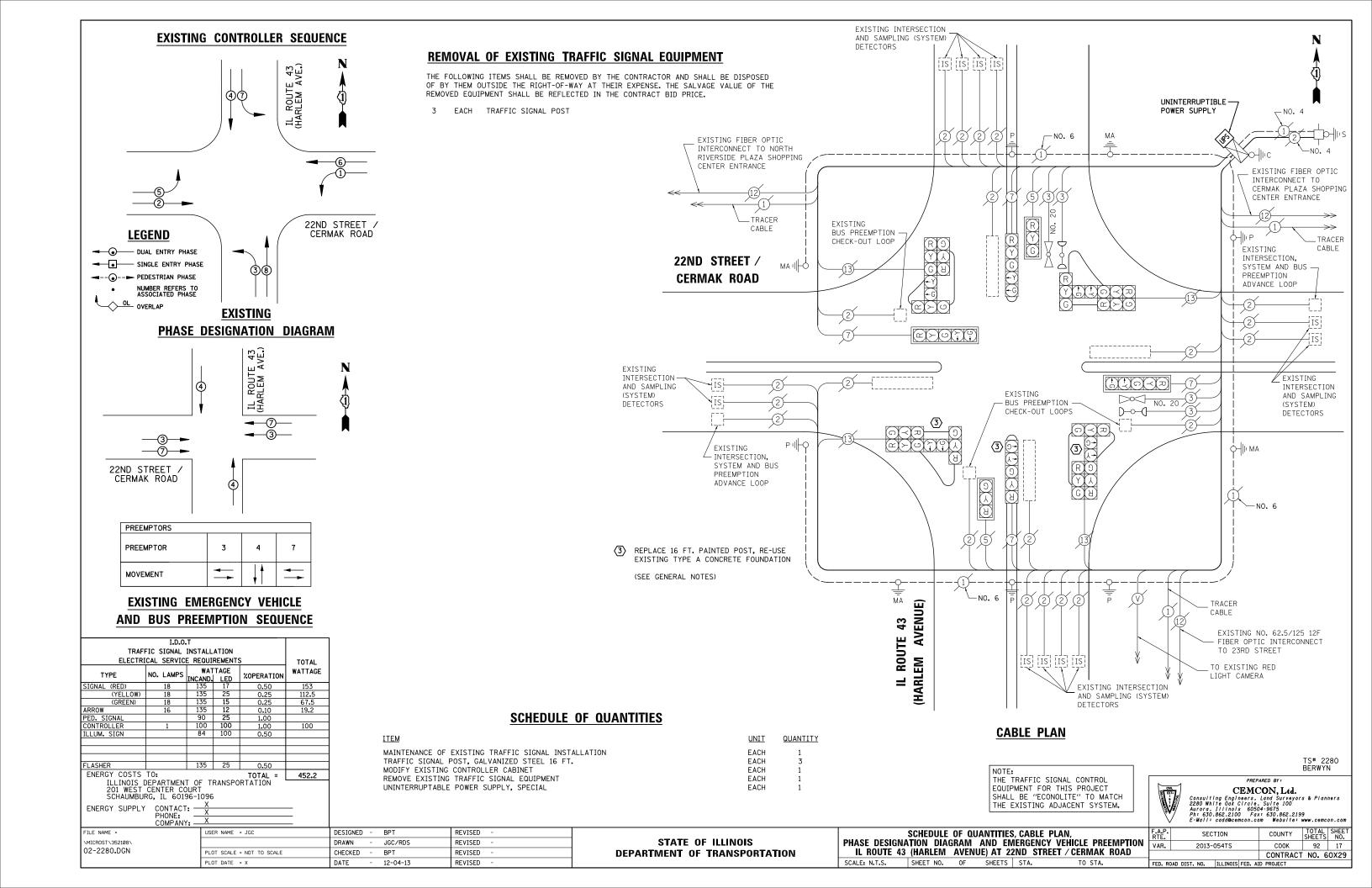
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

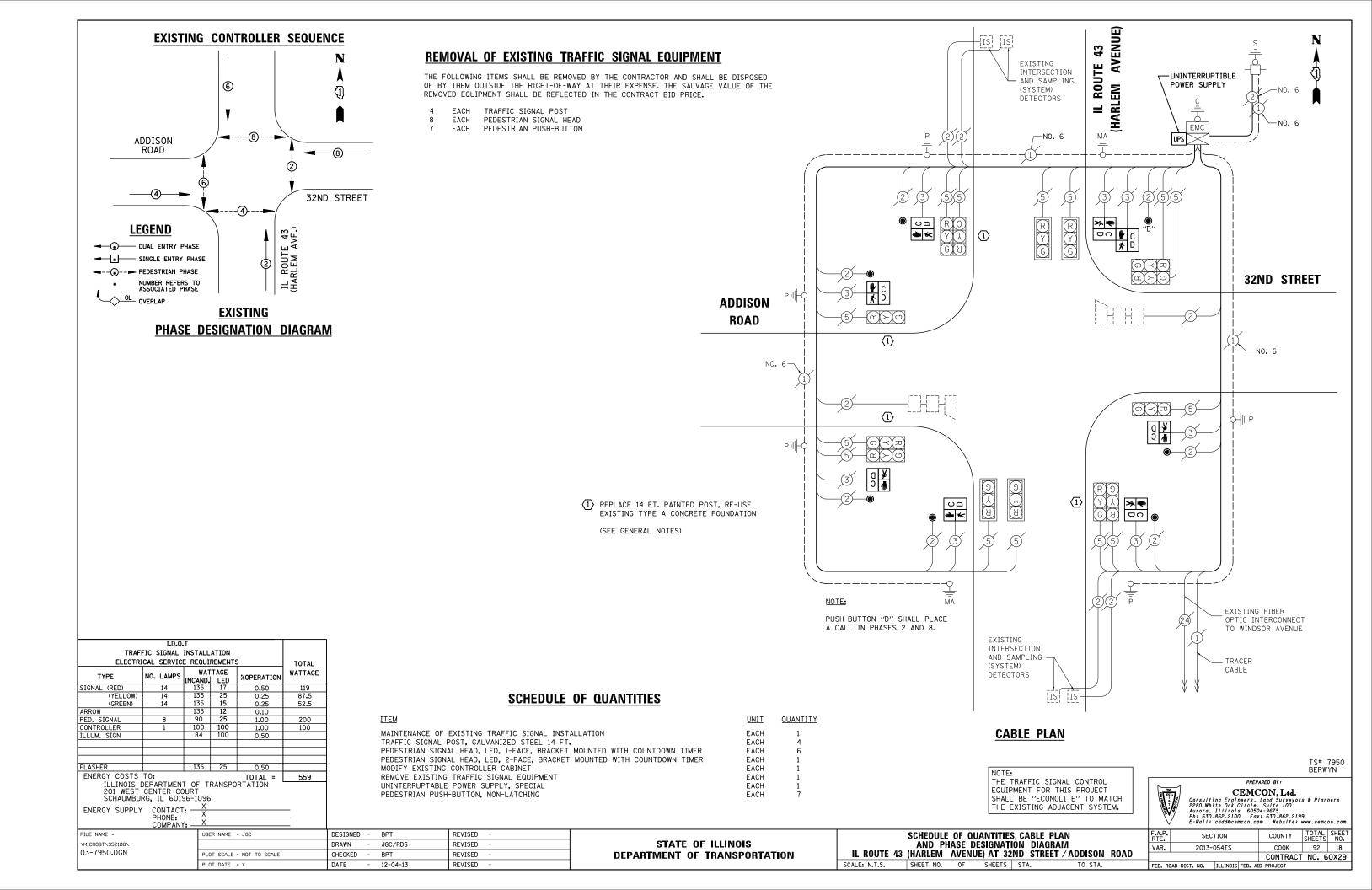
DISTRICT 1						SECTION		COUNTY	TOTAL SHEET	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS					VAR.	2013-054T	S	соок	92	14
ļ					CONTRACT	NO.	60X29			
1	SCALE:	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.	FED. ROA	AD DIST. NO. ILLIN	IOIS FED. AI	D PROJECT		

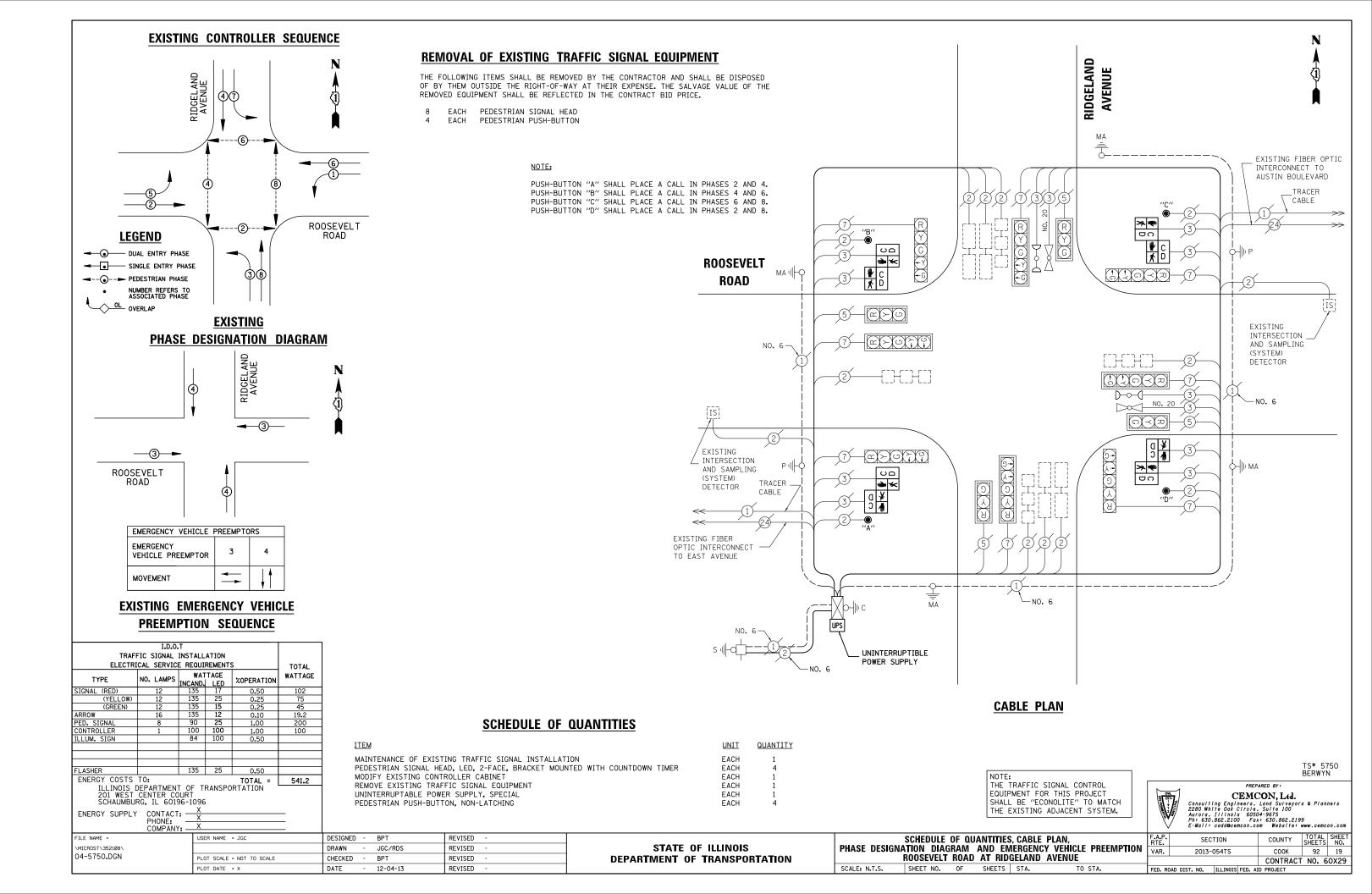
TRAFFIC SIGNAL LEGEND

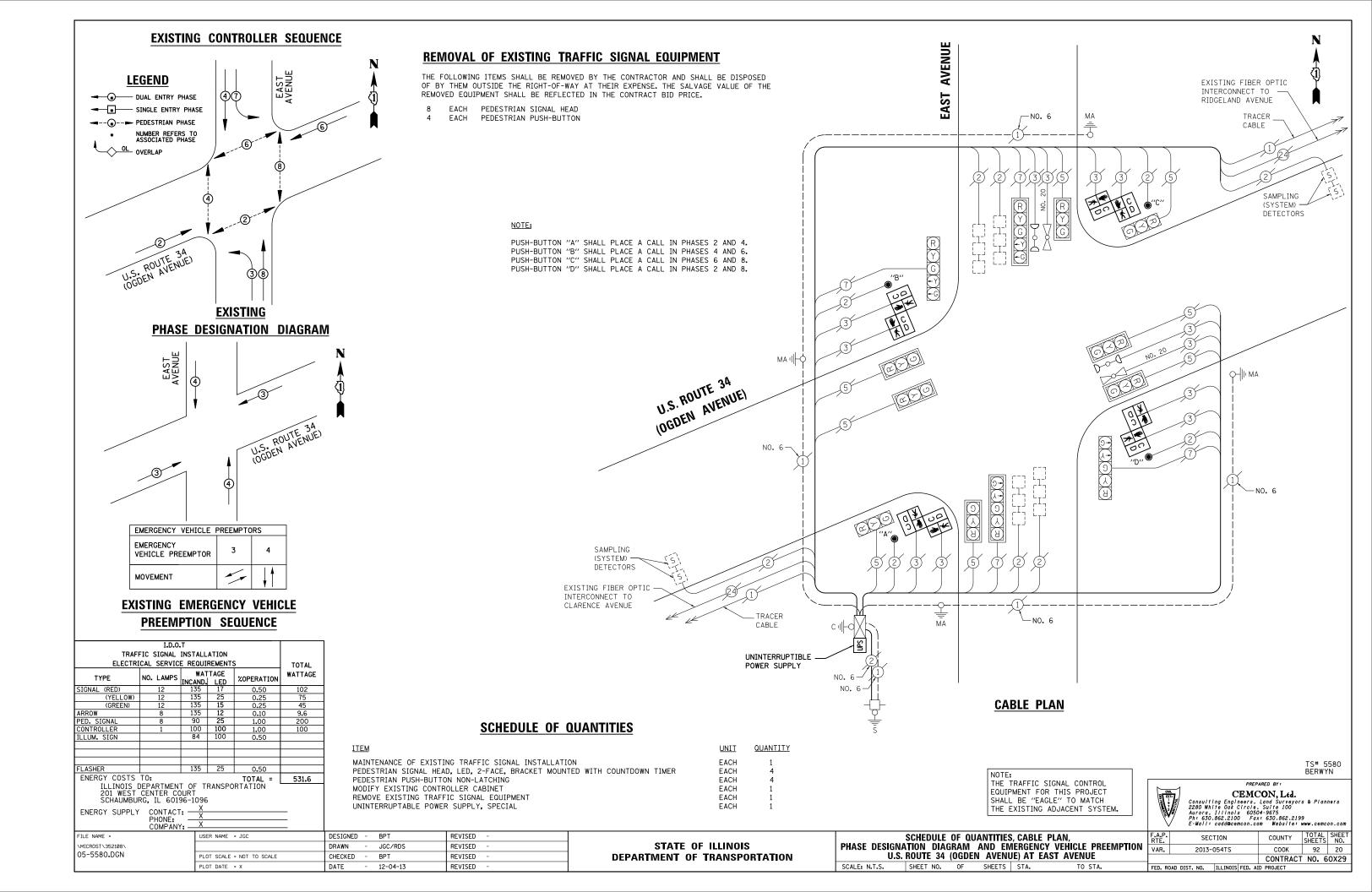
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL	EXISTING	PRCPOSED
ONTROLLER CABINET	R		\blacksquare	EMERGENCY VEHICLE LIGHT DETECTOR	R	\ll	•	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
ILROAD CONTROL CABINET		R	R R	CONFIRMATION BEACON	R_{o-0}	0-()	•-1	NO. 14 170, ONEE33 NOTED OTHERWISE		,	
MMUNICATIONS CABINET	C C	E C C	СС		R	5	-	COAXIAL CABLE		— <u> </u>	<u> </u>
STER CONTROLLER		EMC	MC	HANDHOLE						- /	
STER MASTER CONTROLLER	_	EMMC	MMC	HEAVY DUTY HANDHOLE	R	Н	H	VENDOR CABLE FOR CAMERA		—	<u></u>
INTERRUPTIBLE POWER SUPPLY	UPS R	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u>—(6)</u> —	_6_
RVICE INSTALLATION,	- <u></u> R	- <u>-</u> -	_ _ P	JUNCTION BOX	R		•	FIBER OPTIC CABLE		<i>></i>	O
POLE OR (G) GROUND MOUNT EPHONE CONNECTION	R	Р Т	P [T]	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				NO. 62.5/125, MM12F FIBER OPTIC CABLE		— <u>12F</u> —	
POLE OR (G) GROUND MOUNT	R	_		TEMPORARY SPAN WIRE, TETHER WIRE,	R			NO. 62.5/125, MM12F SM12F		<u>24F</u>	<u>—24F</u> —
EL MAST ARM ASSEMBLY AND POLE	<u>``</u>	O		AND CABLE				FIBER OPTIC CABLE NO. 62.5/125,		- /	_
MINUM MAST ARM ASSEMBLY AND POLE	0	0		COMMON TRENCH			CT CNC	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		- >-	
EL COMBINATION MAST ARM EMBLY AND POLE WITH LUMINAIRE	^R O→¤——	0	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		\$	S	GROUND ROD AT (C) CONTROLLER,			_
EEL COMBINATION MAST ARM	R	Q	•			_		(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S; SERVICE		C	^C ⊪—
SEMBLY AND POLE WITH PTZ CAMERA	PZI	PTZ	PTZ	INTERSECTION ITEM		Ι	IP		RCF		
NAL POST	R _O	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
MPORARY WOOD POLE (CLASS 5 OR	R ⊗	\otimes	•	RELOCATE ITEM	KL .			STEEL MAST ADM DOLE AND	RMF		
TER) 45 FOOT (13.7m) MINIMUM		<u></u>		ABANDON ITEM	A			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	O		
WIRE	>R	>	>	12" (300mm) TRAFFIC SIGNAL SECTION		(R)	R	ALUMINUM MAST ARM POLE AND	RMF		
NAL HEAD	$\stackrel{\mathbb{R}}{\longmapsto}$	\rightarrow	-	12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED	0		
NAL HEAD CONSTRUCTION STAGES MBERS INDICATE THE CONSTRUCTION STAGE)			-	YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O-X		
NAL HEAD WITH BACKPLATE	+ R	+	+-			R	R	FOUNDATION TO BE REMOVED			
NAL HEAD OPTICALLY PROGRAMMED		>′′P′′	— > "P"	SIGNAL FACE		G	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
SHER INSTALLATION DENOTES SOLAR POWEF)	R ○	O>"F"	● ►"F"				← Y ← G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	IS
ESTRIAN SIGNAL HEAD	R -	-[]	-1			R	R	SAMPLING (SYSTEM) DETECTOR		[s]	S
DESTRIAN PUSHBUTTON DETECTOR	R	©	©	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		(Y)	Y	EXISTING INTERSECTION LCOP DETECTOR		 [P]	
ESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R	@aps				(*) (*)	← Y ← G	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETE	LIOK	L _'	
JMINATED SIGN	R		•			"P"	"P"	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETE	CT0R	PP]	
LEFT TURN" JMINATED SIGN	R			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(W) (W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
RIGHT TURN"				12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		ÎPSÎ	PS
ECTOR LOOP, TYPE I		[-]		INTERNATIONAL SYMEOL, OUTLINED						bò	
FORMED DETECTOR LODP		P	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		(₽	RAILROAD	SYMBO	OLS	
ROWAVE VEHICLE SENSOR	R [M][]	[M]	(M)	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		(P) C (S) D	₽ C ★ D			EXISTING	PROPOSED
EO DETECTION CAMERA	R [V][]	[V]	(V) ■	RADIO INTERCONNECT	 	##+0	₩	RAILROAD CONTROL CABINET		R R	
EO DETECTION ZONE				RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM		XOX X	XEX
, TILT, ZOOM CAMERA	R PTZ)	PTZÍ	PTZ	DENOTES NUMBER OF CONDUCTORS, ELECTRIC				FLASHING SIGNAL		$\boxtimes \ominus \boxtimes$	X ⊕ X
RELESS DETECTOR SENSOR	RW	(W)	W	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED	1	(5)—		CROSSING GATE		X0X >	XOX
RELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	(1)	CROSSBUCK		≥ ≤	*
NAME = USER NAME = kanthaphixa work\PWIDOT\KANTHAPHIXAYBC\ddill26 4\traffic.legend_v7.dgn		DESIGNED - DAG/BCK DRAWN - BCK	REVISED -	STAT	TE OF ILLINOI	s		DISTRICT 1	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET
PLOT SCALE = 20.0000 '/		CHECKED - DAD DATE - 10/28/09	REVISED -	DEPARTMENT				STANDARD TRAFFIC SIGNAL DESIGN DETA	ILS VAR.	2013-054TS	COOK 92

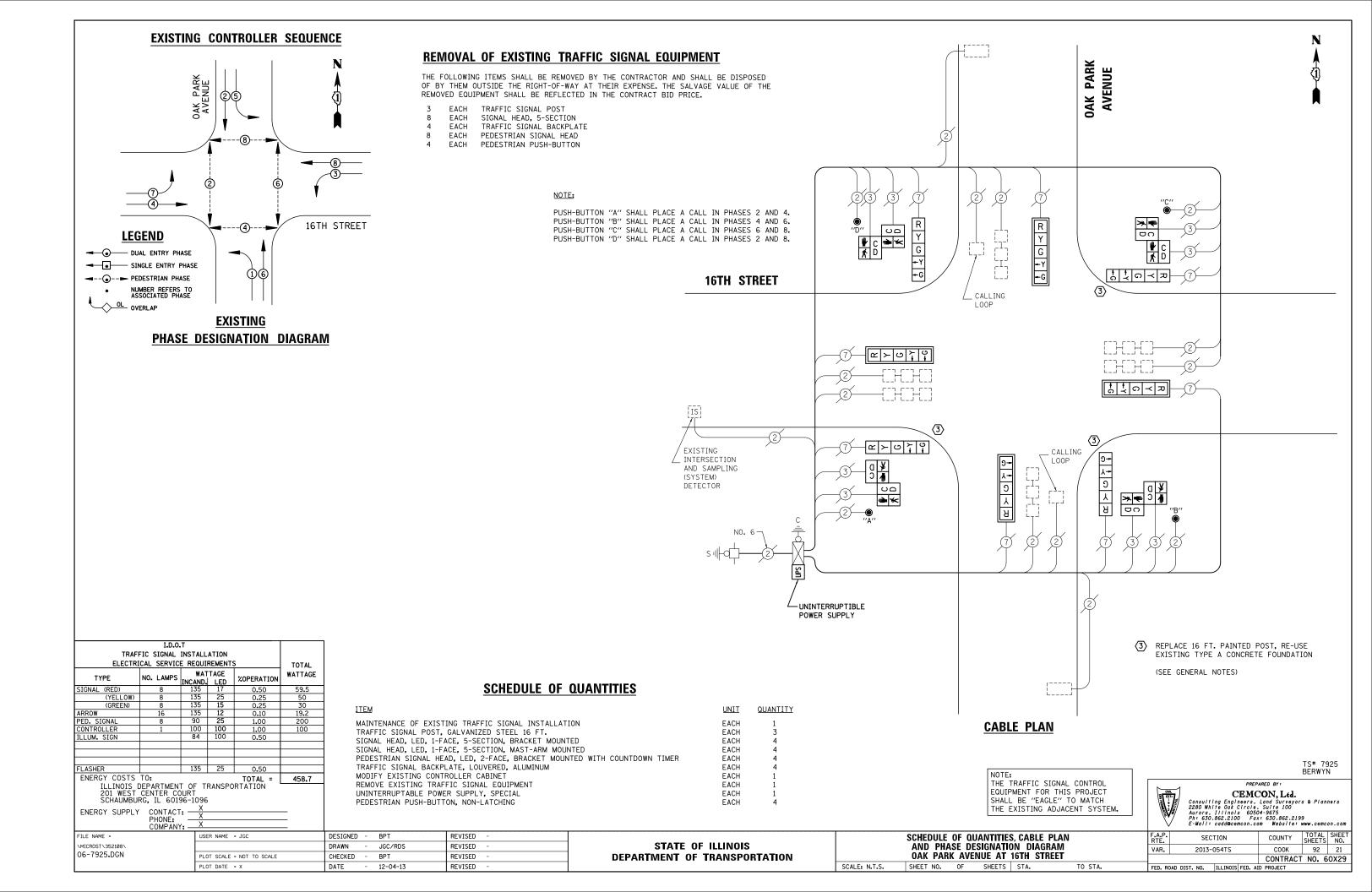


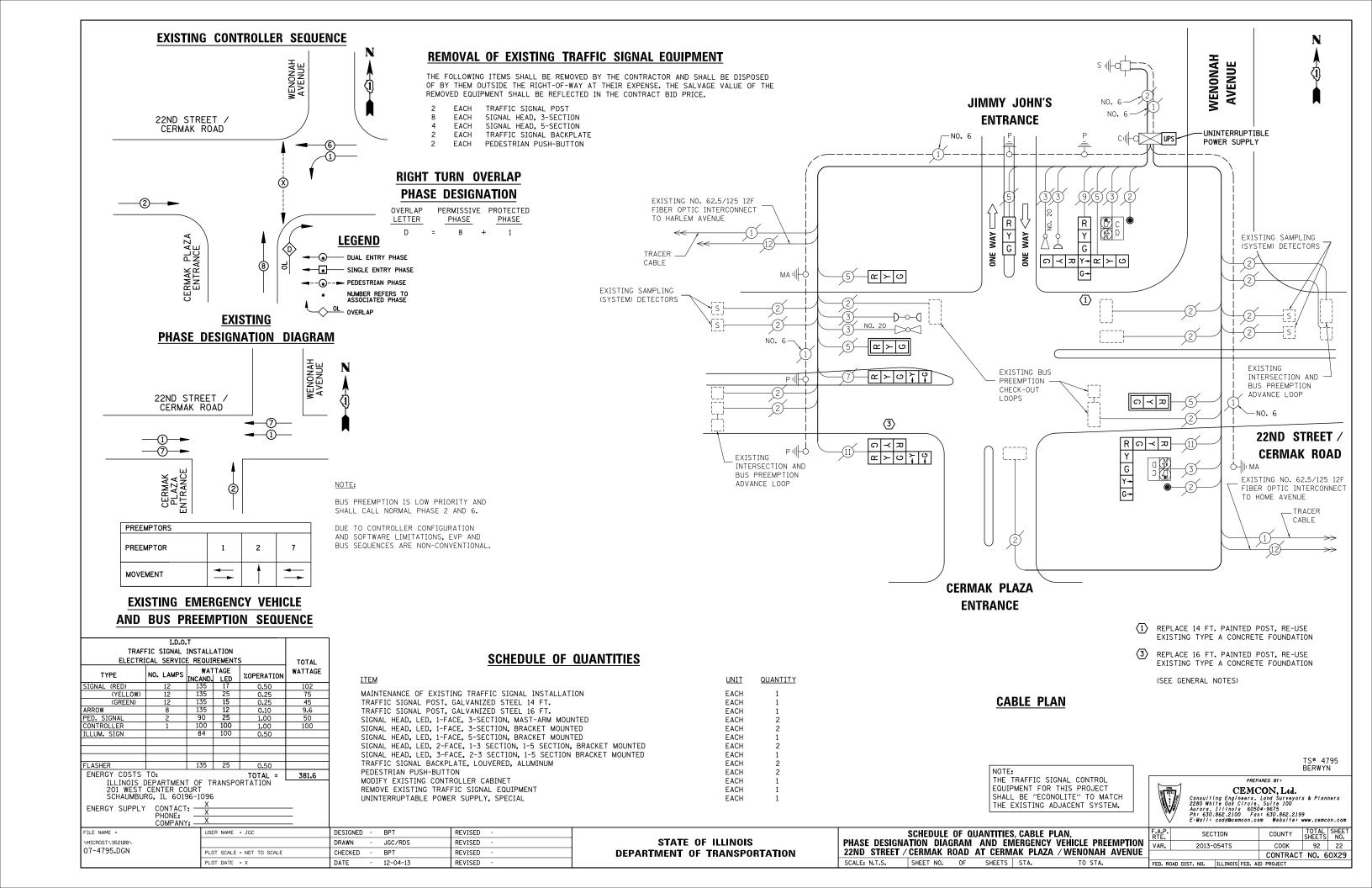


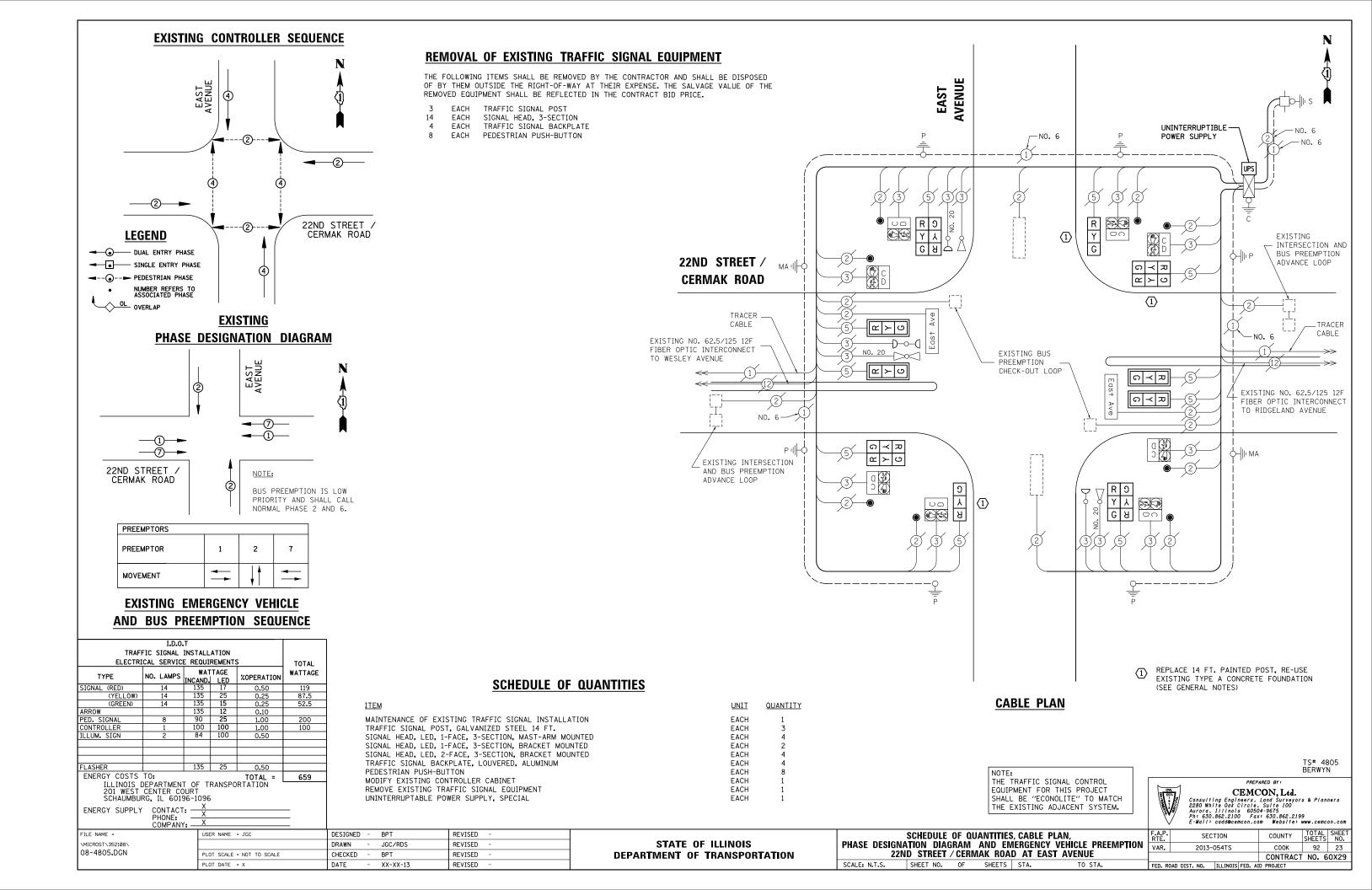


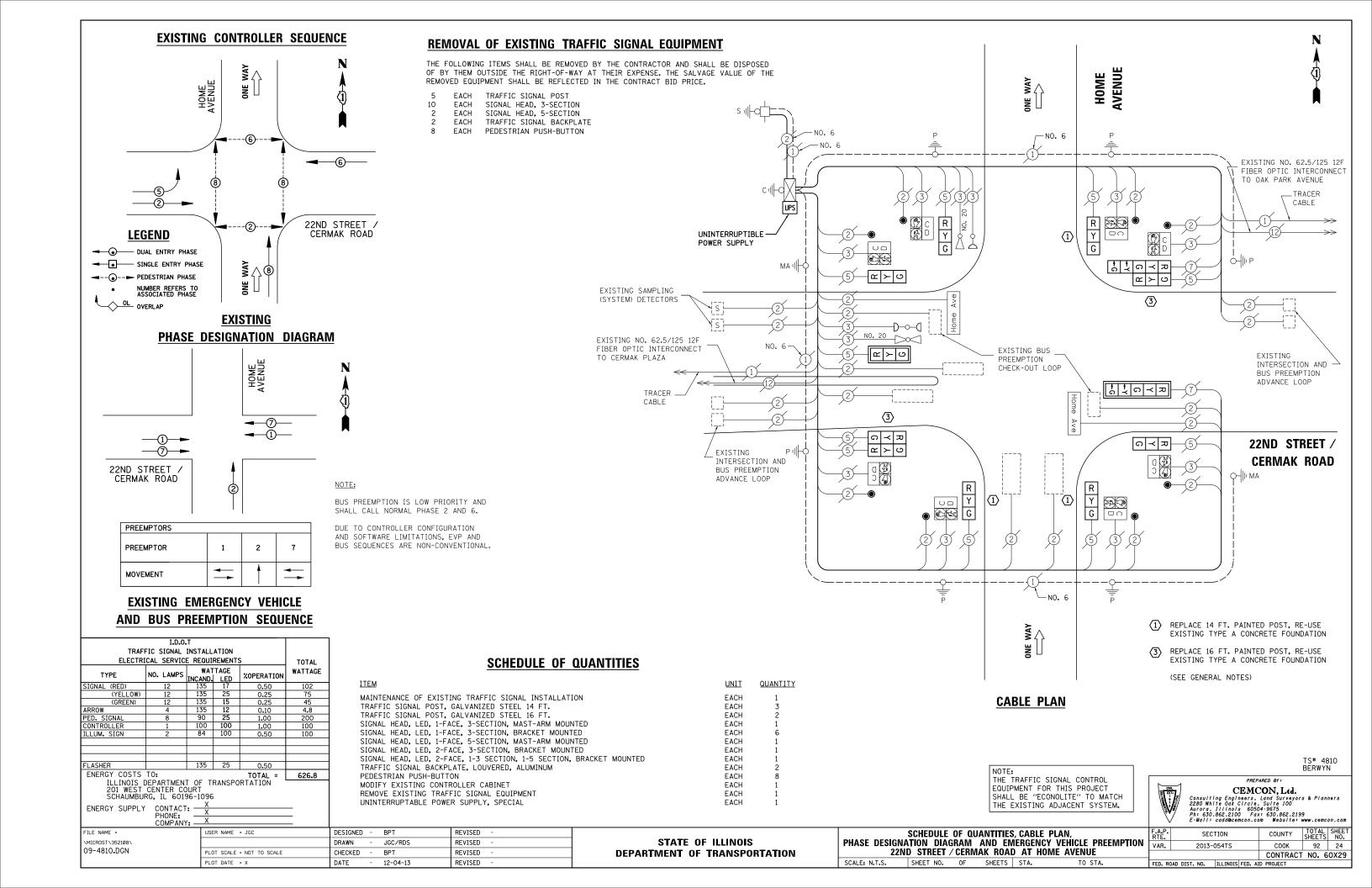


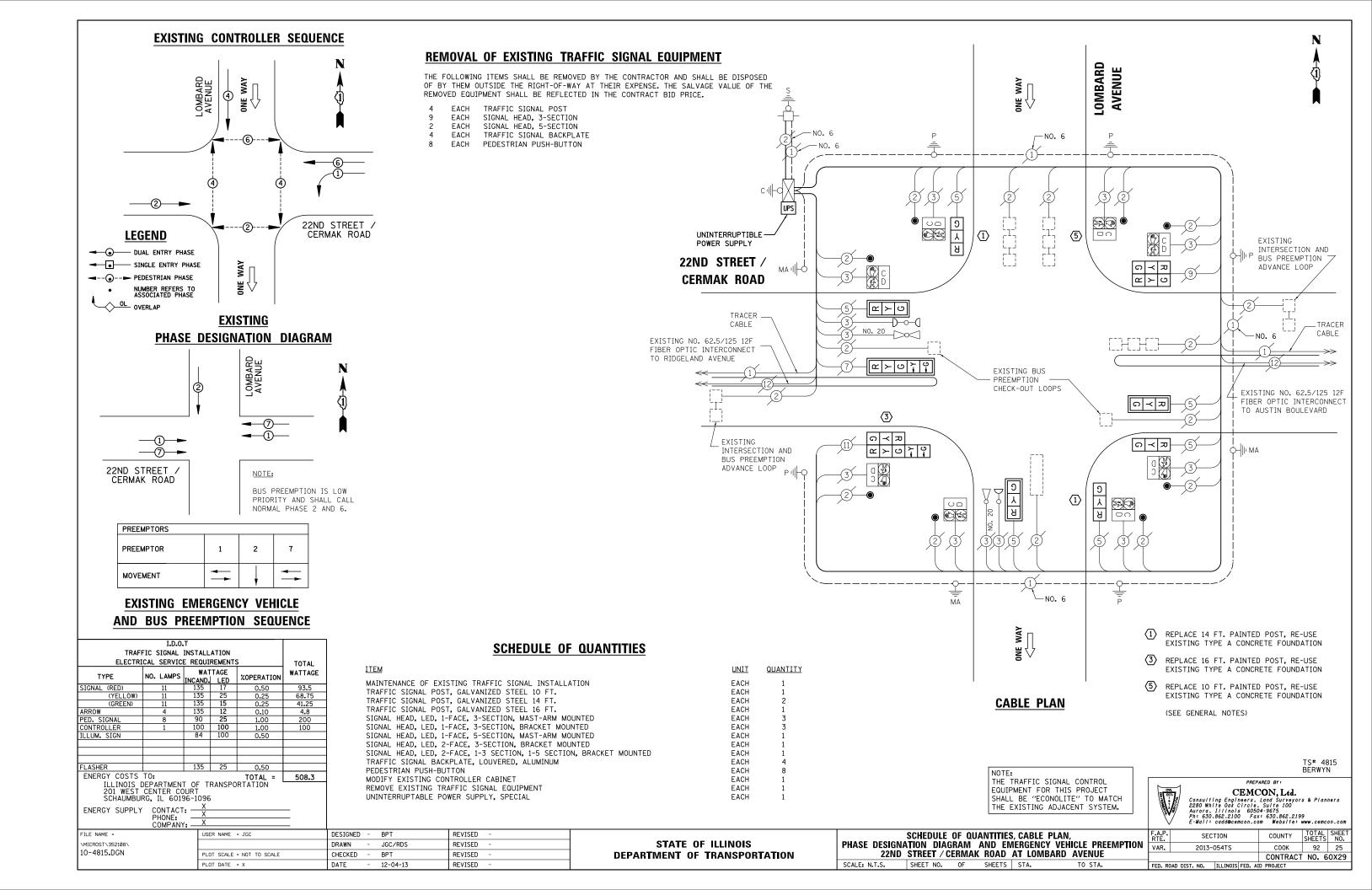


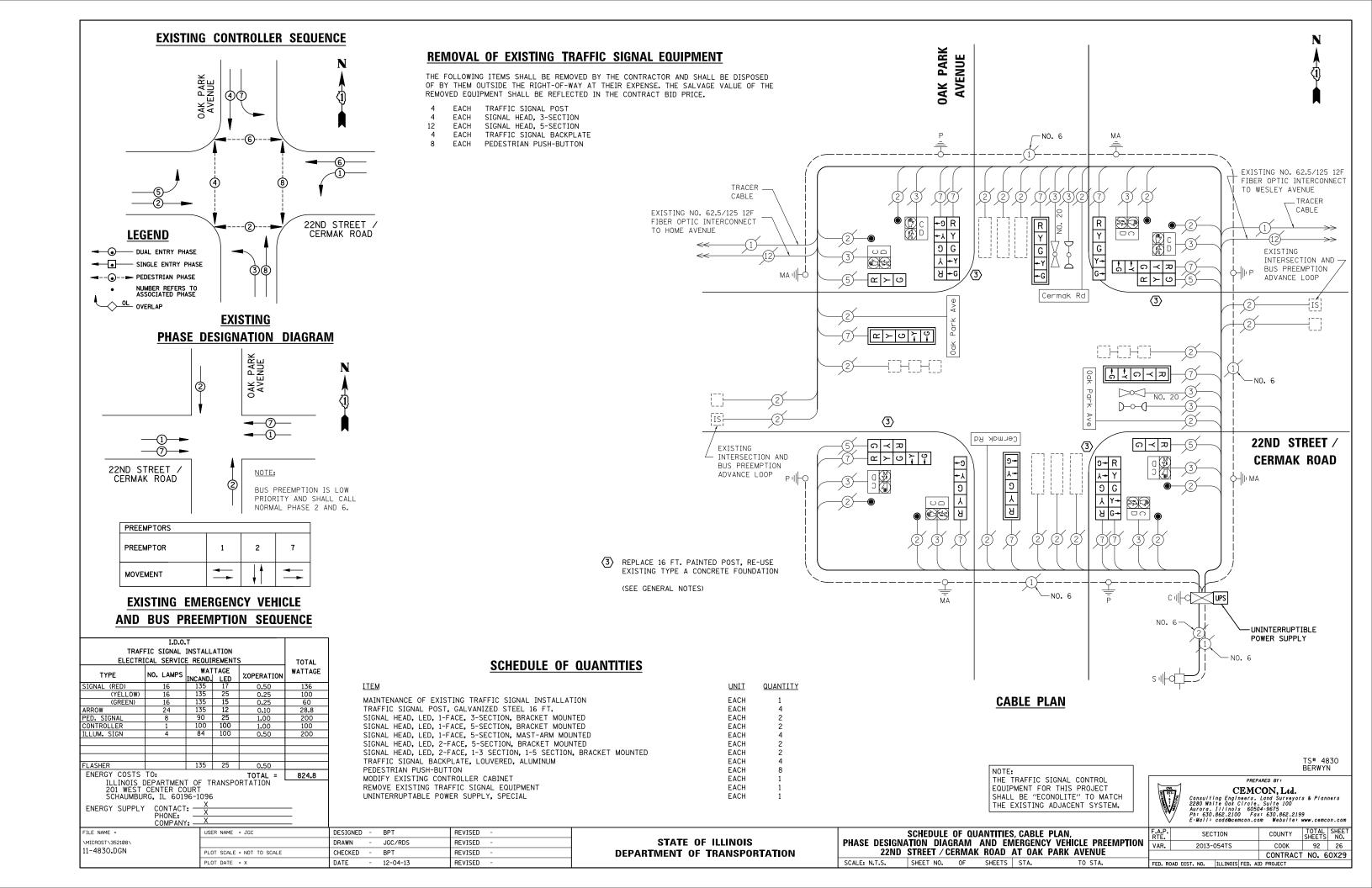


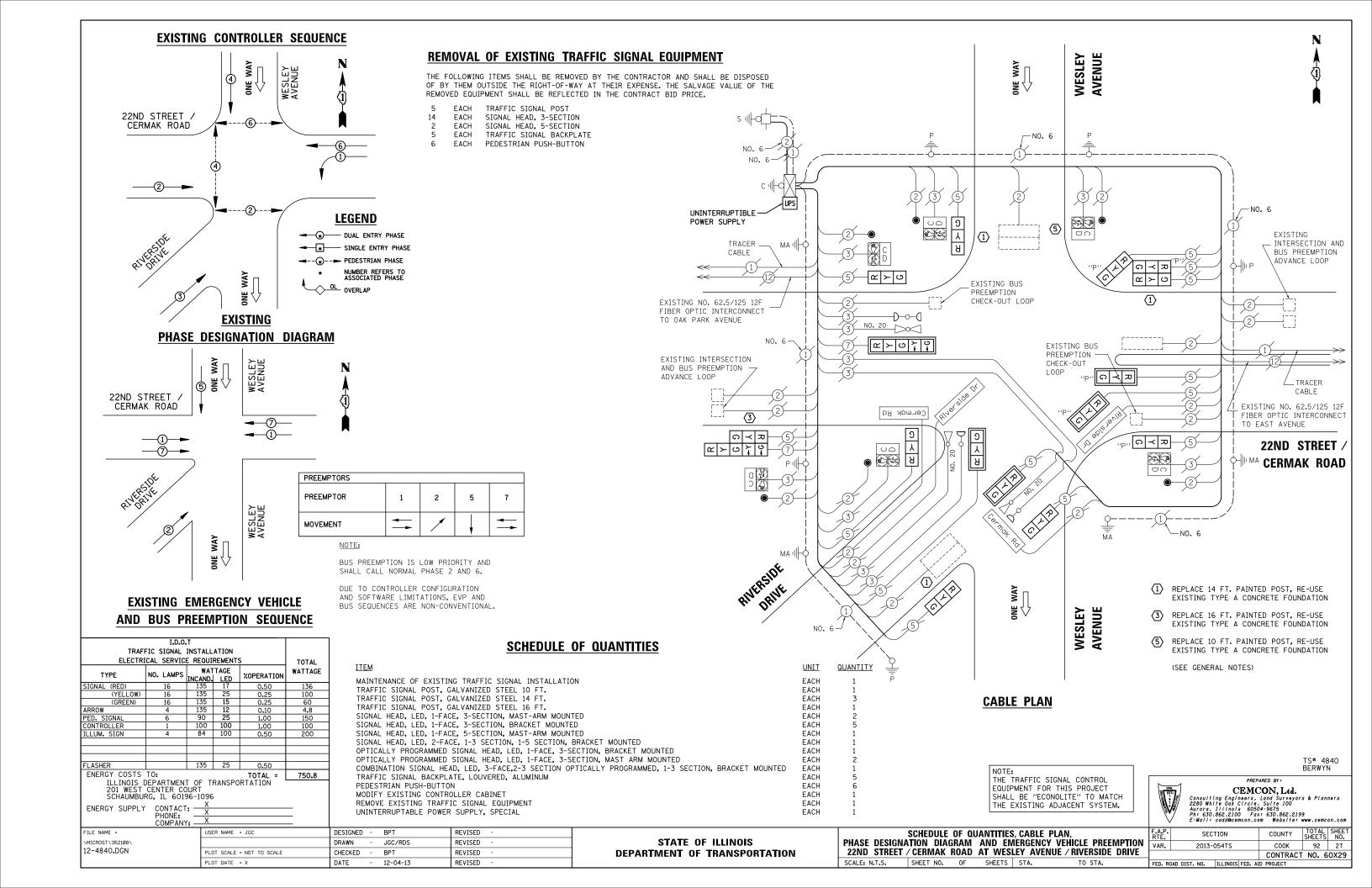


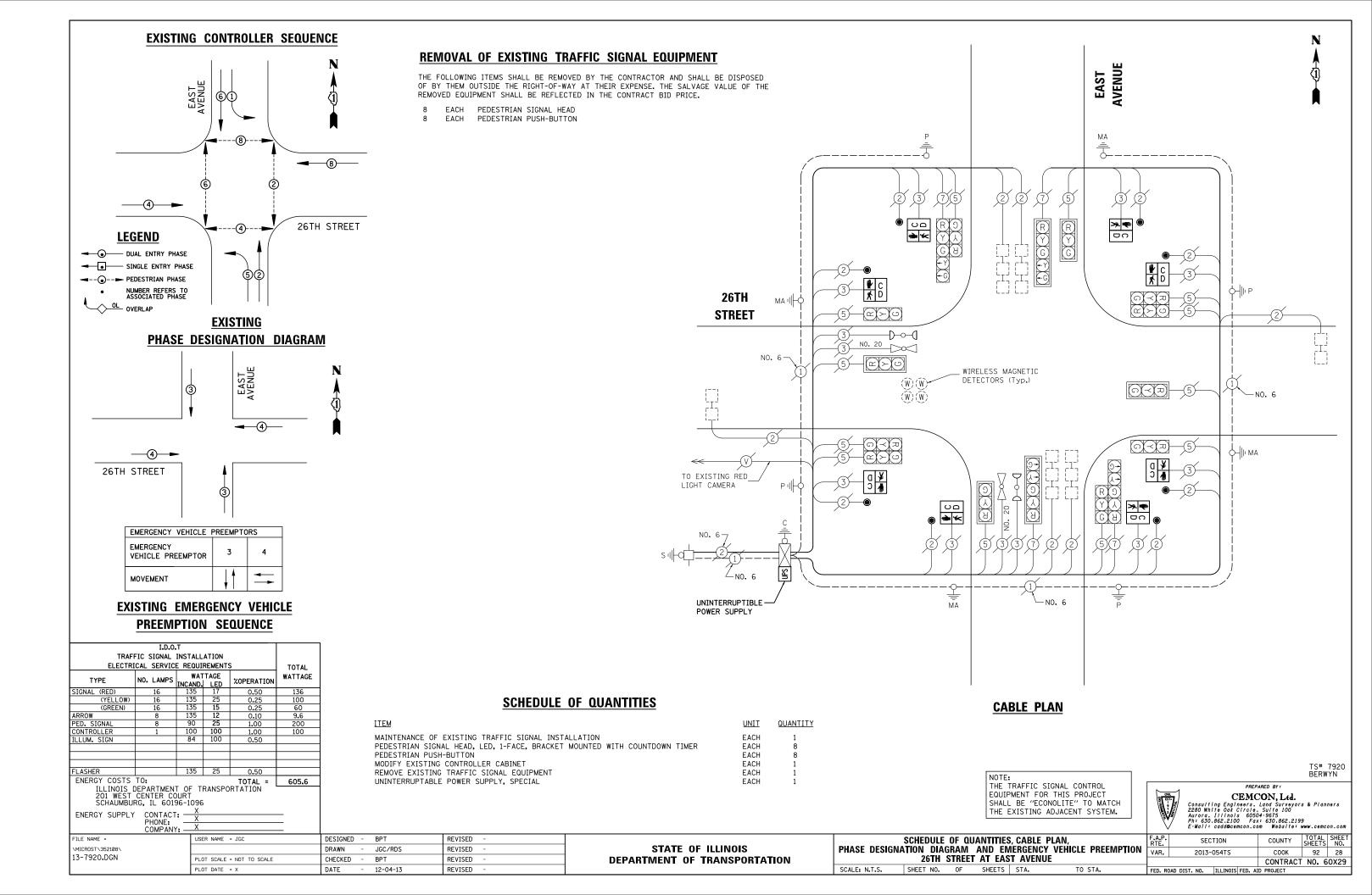


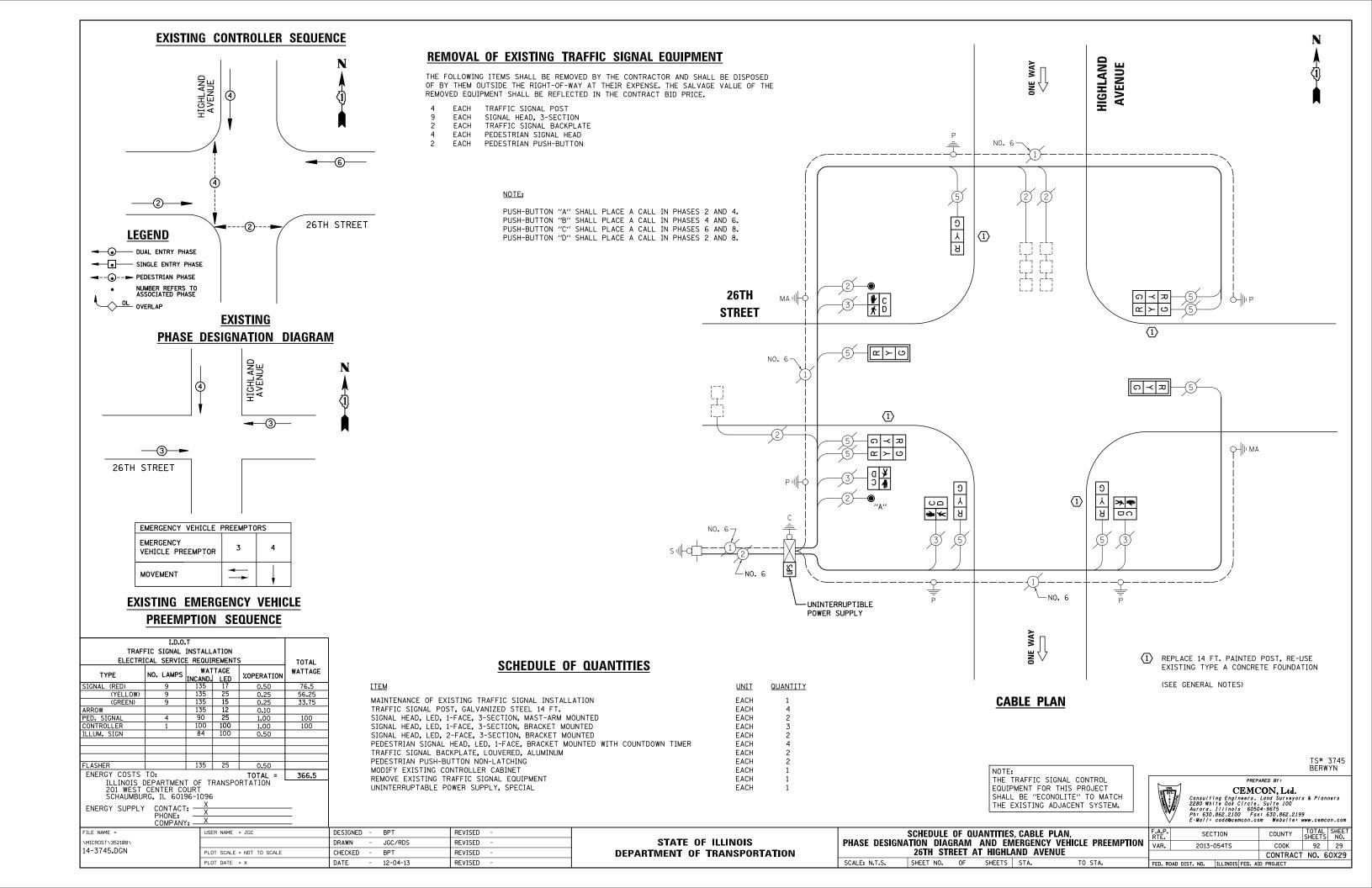


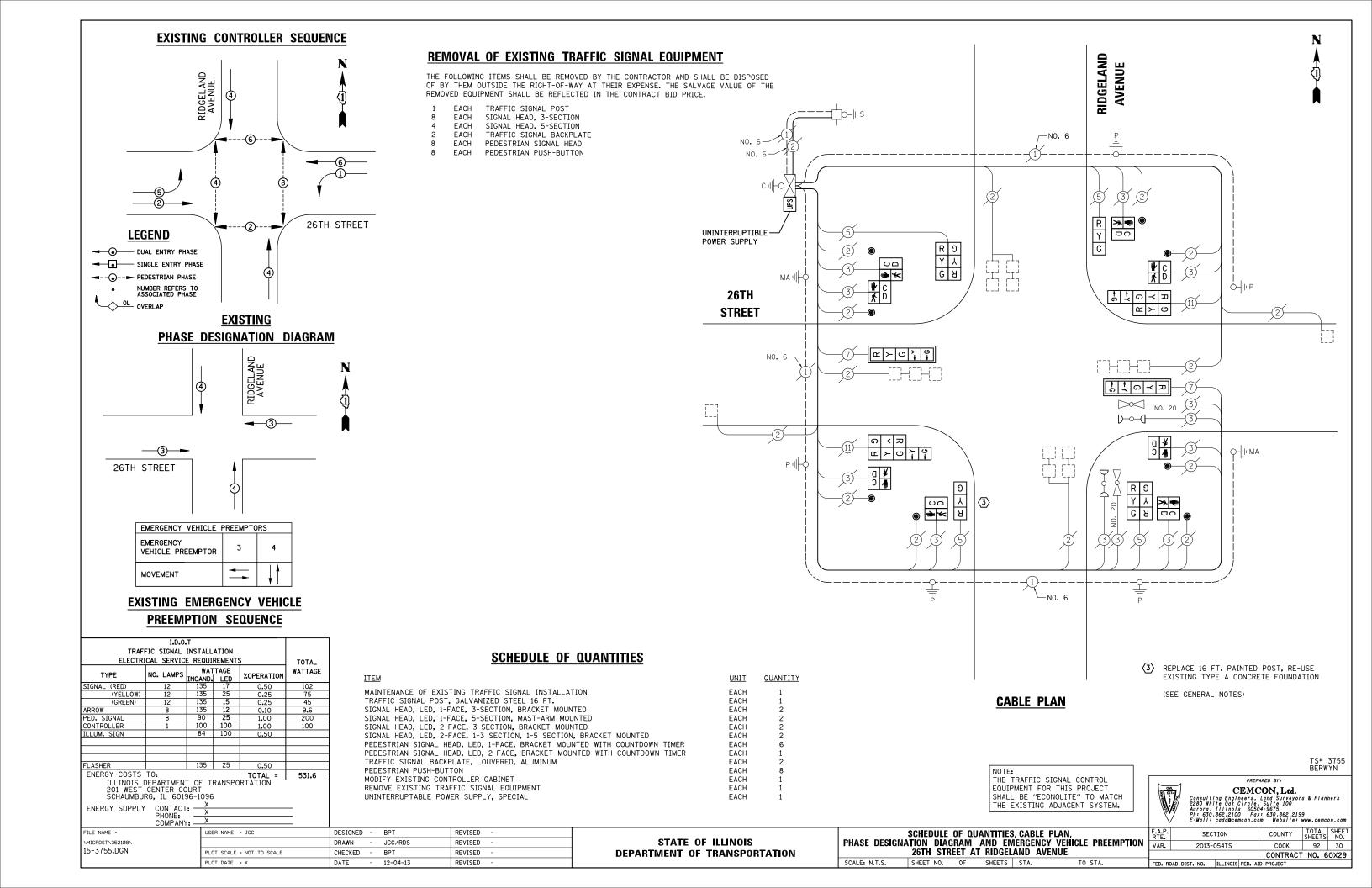


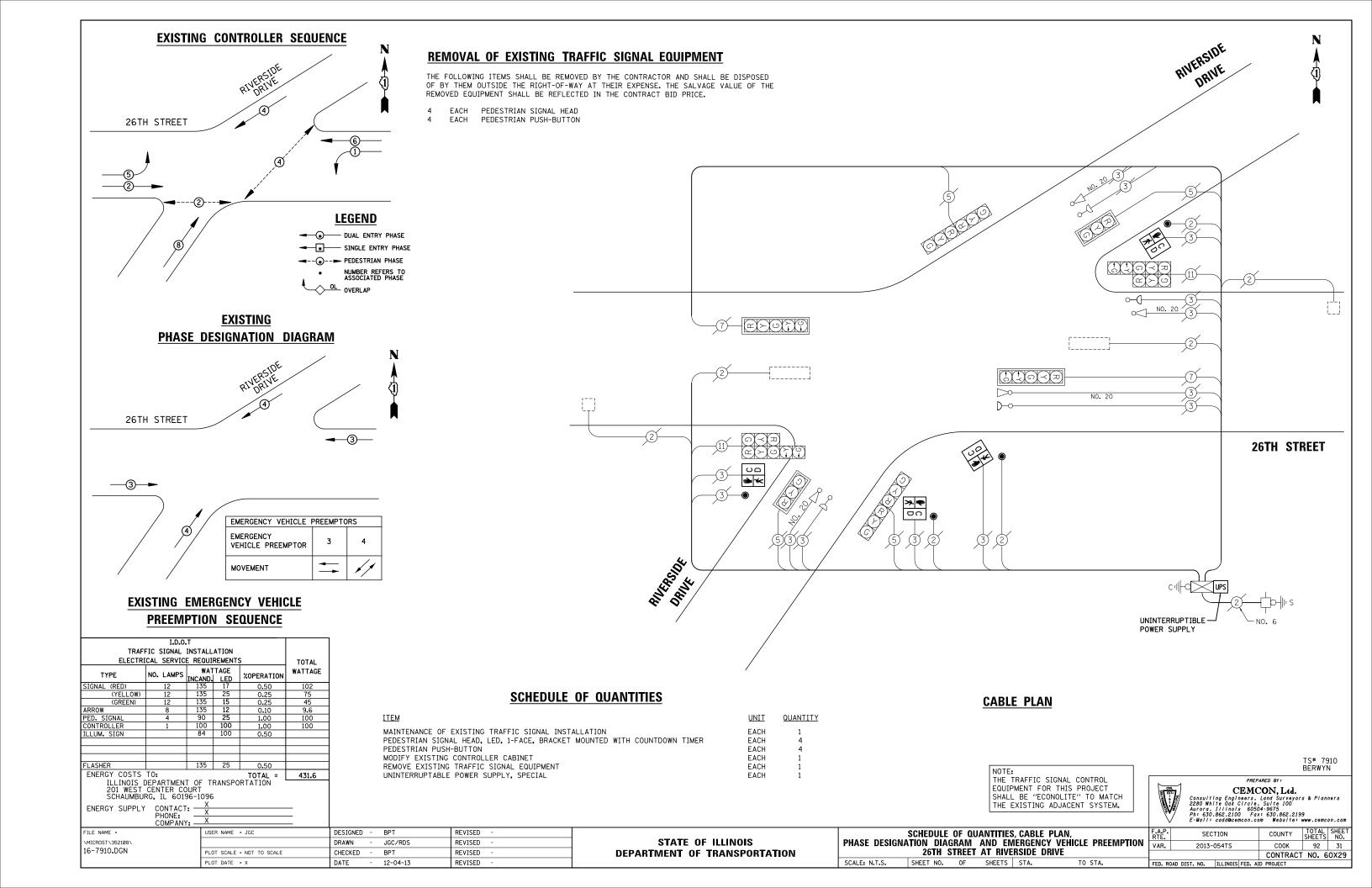


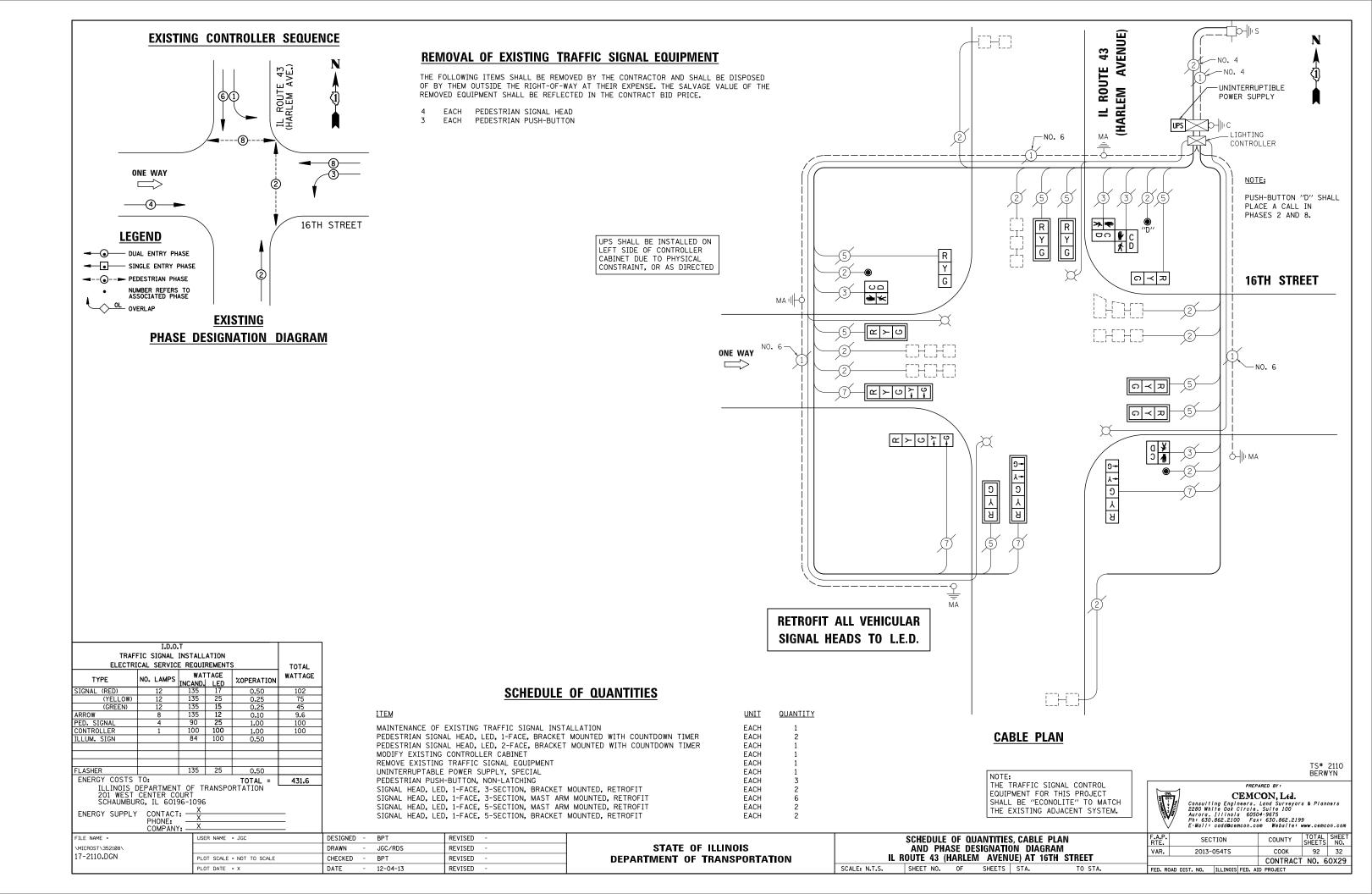


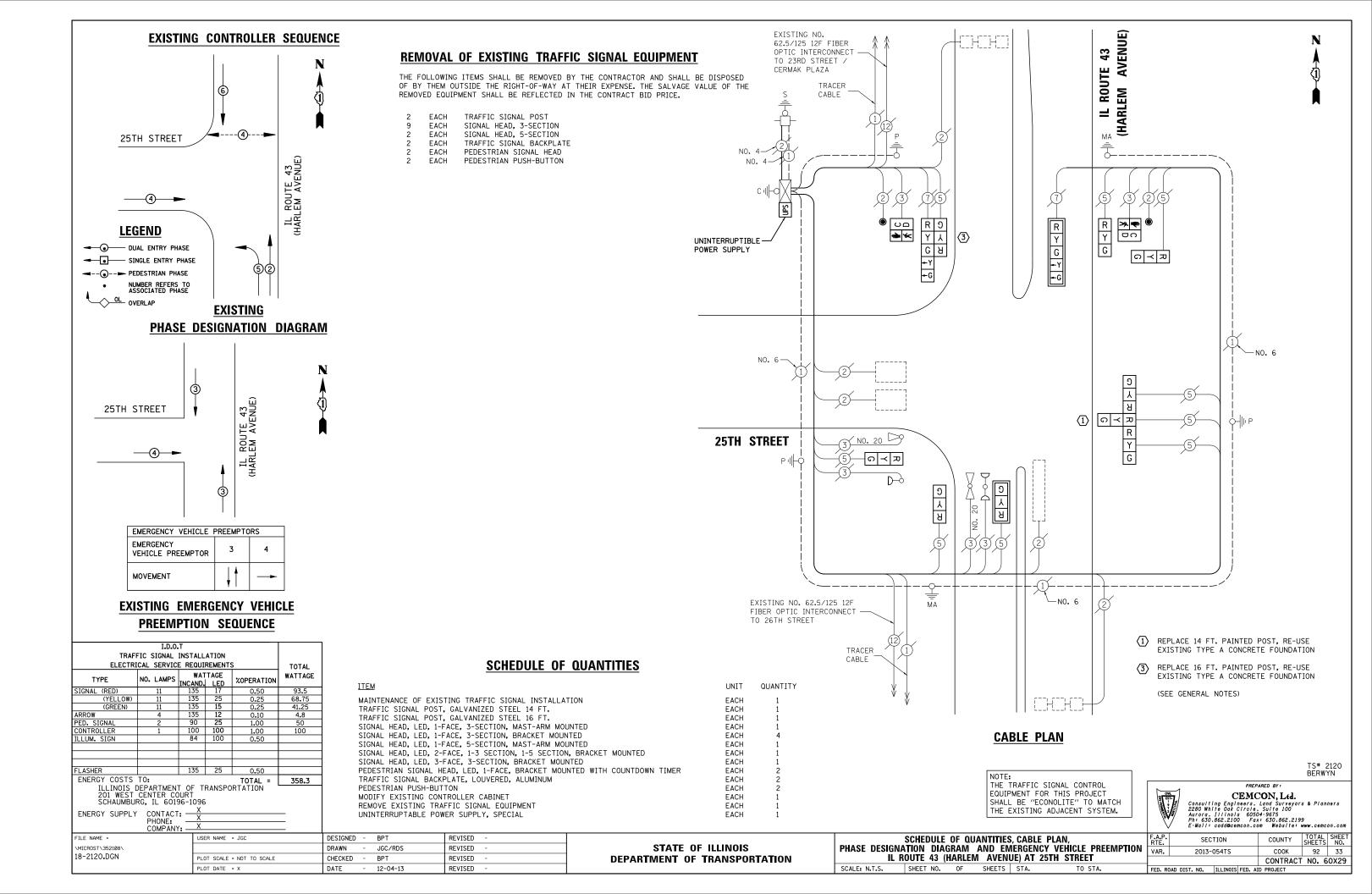


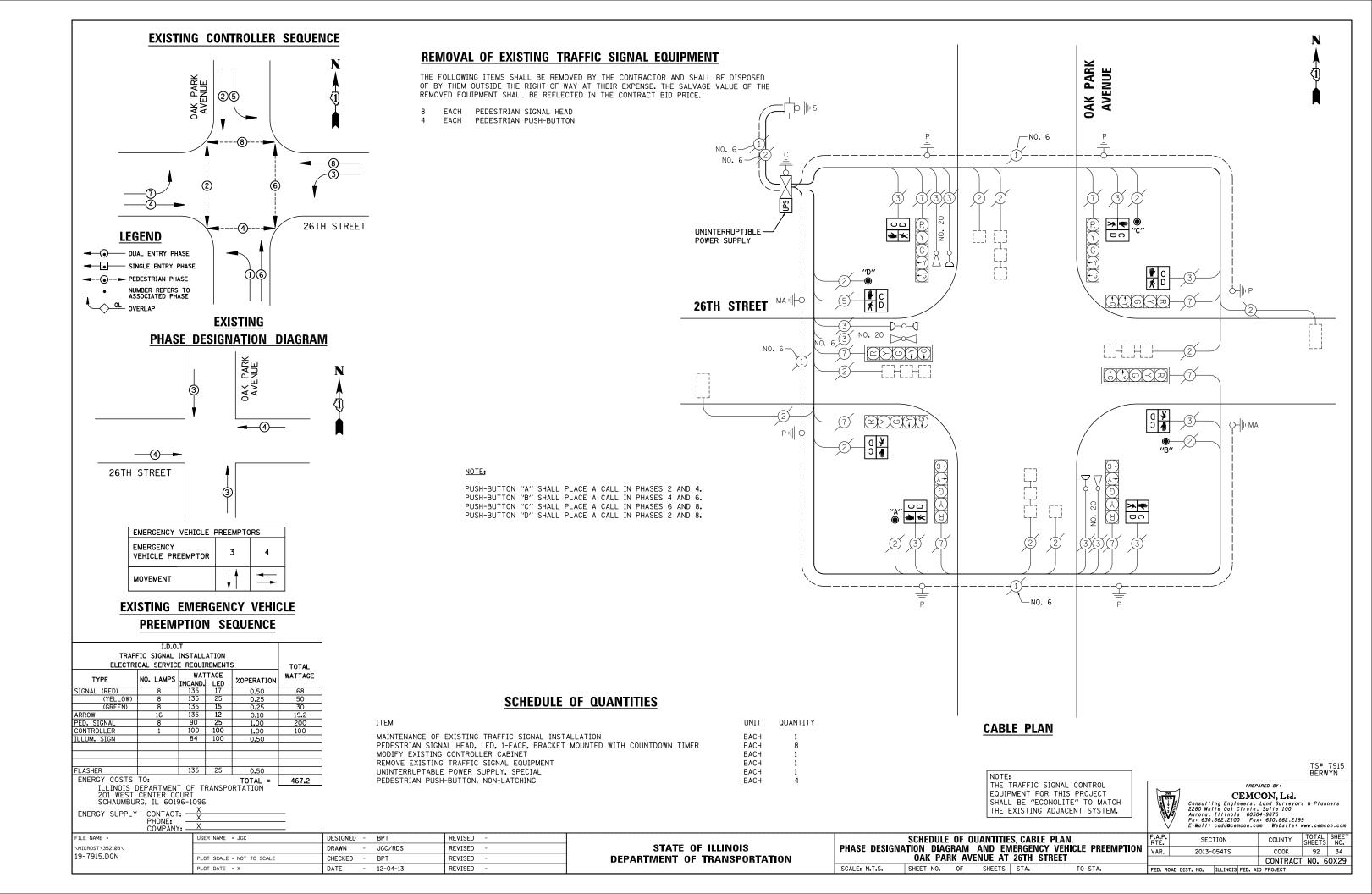


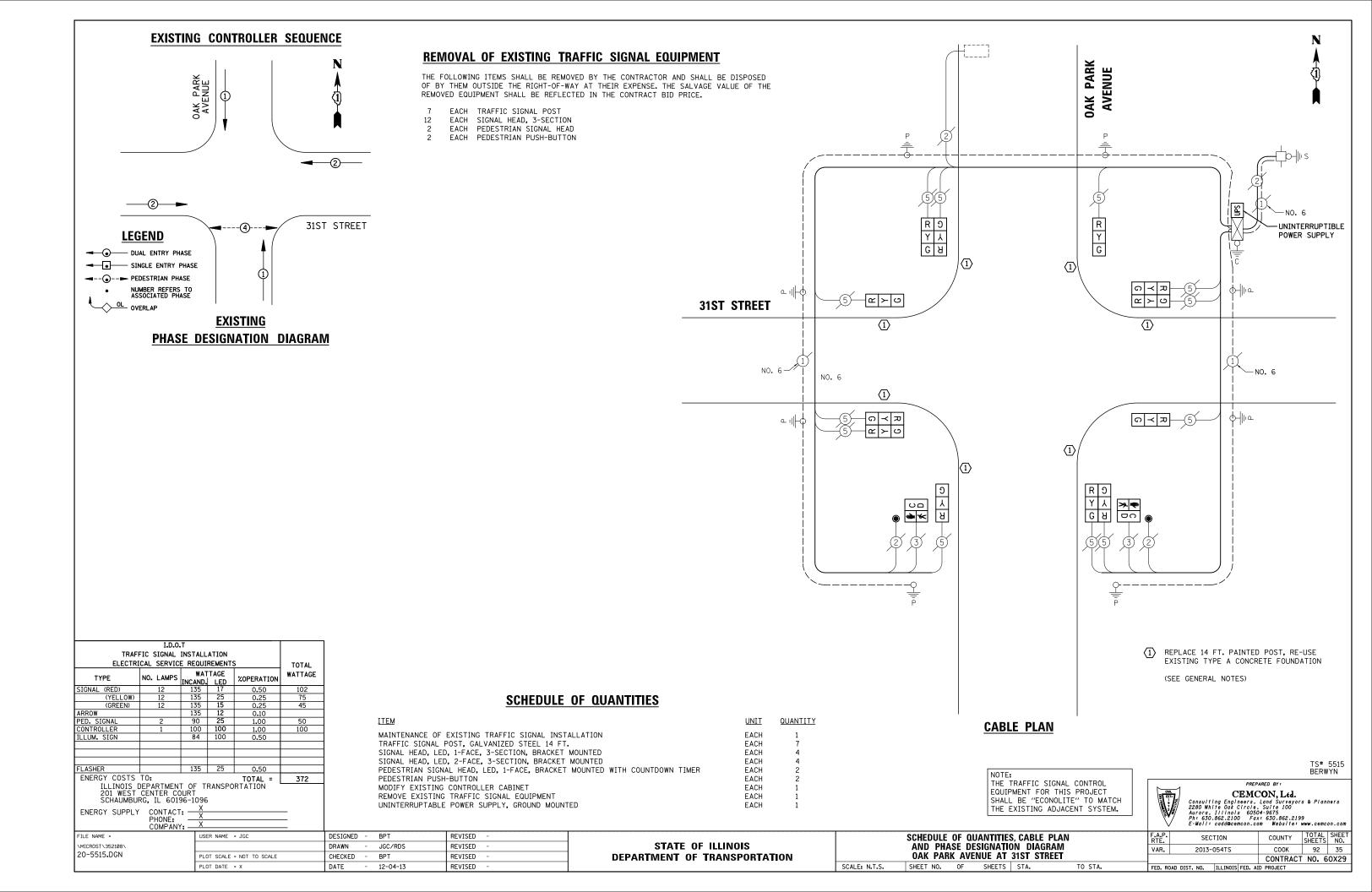


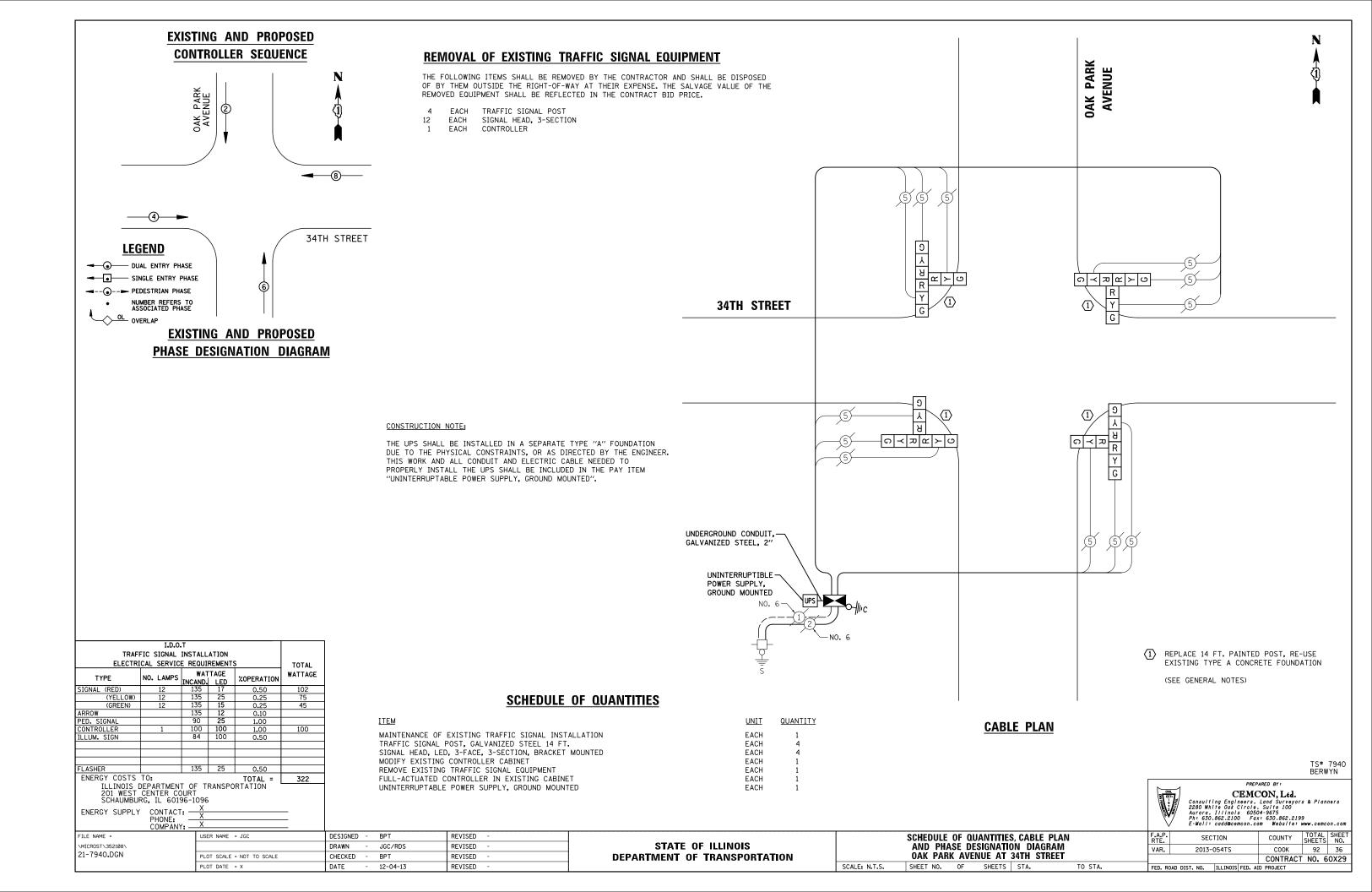


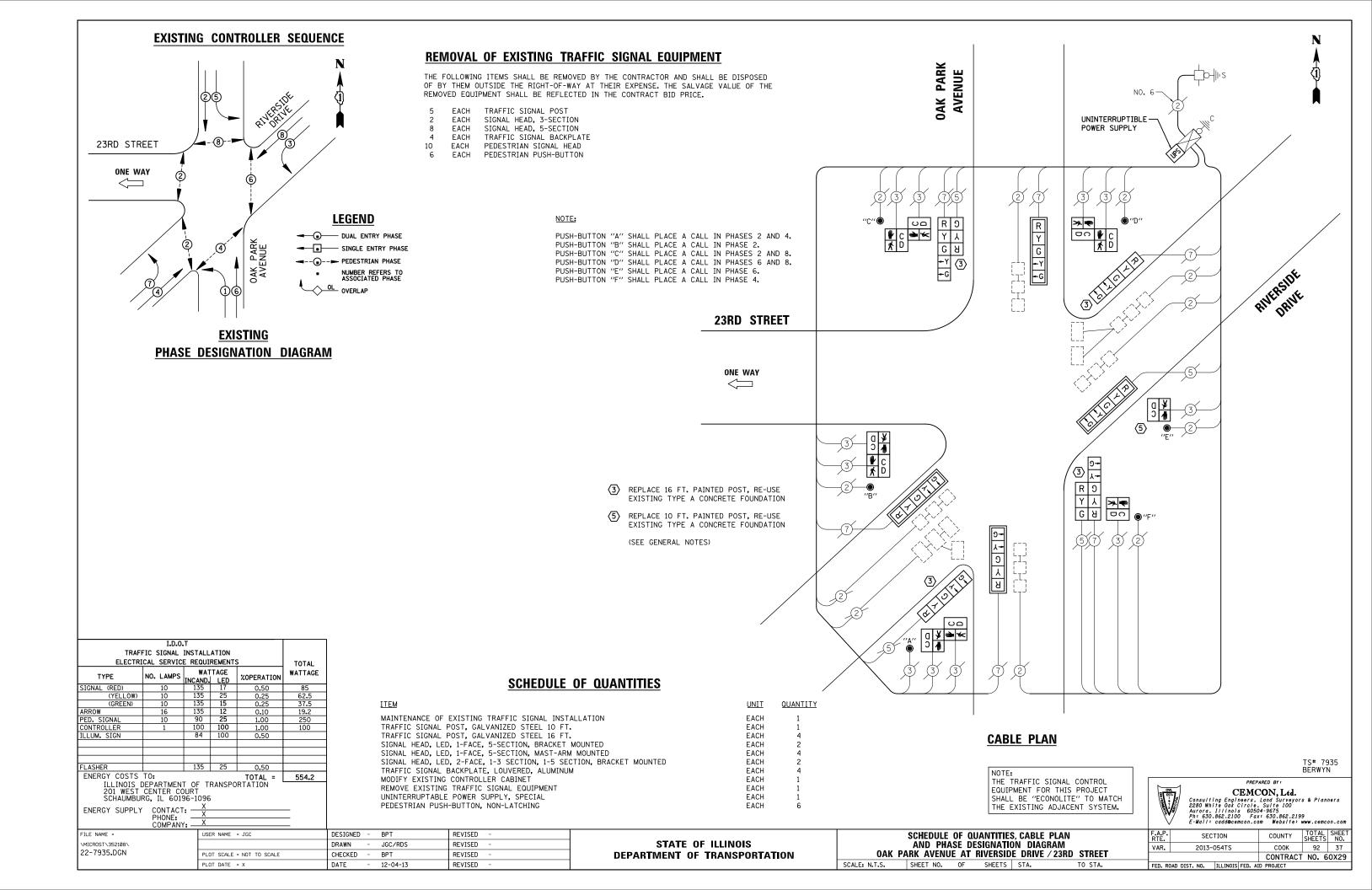


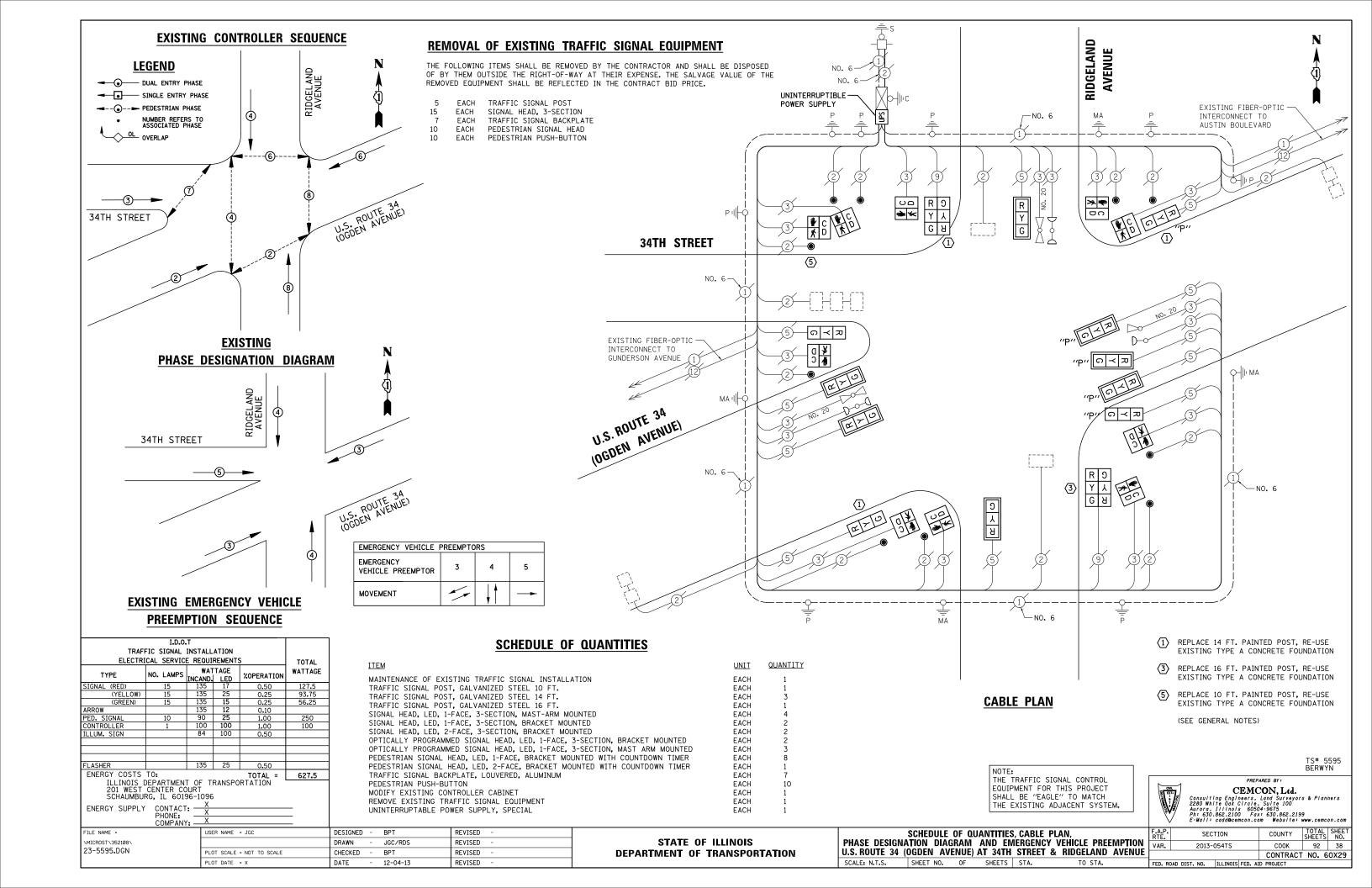


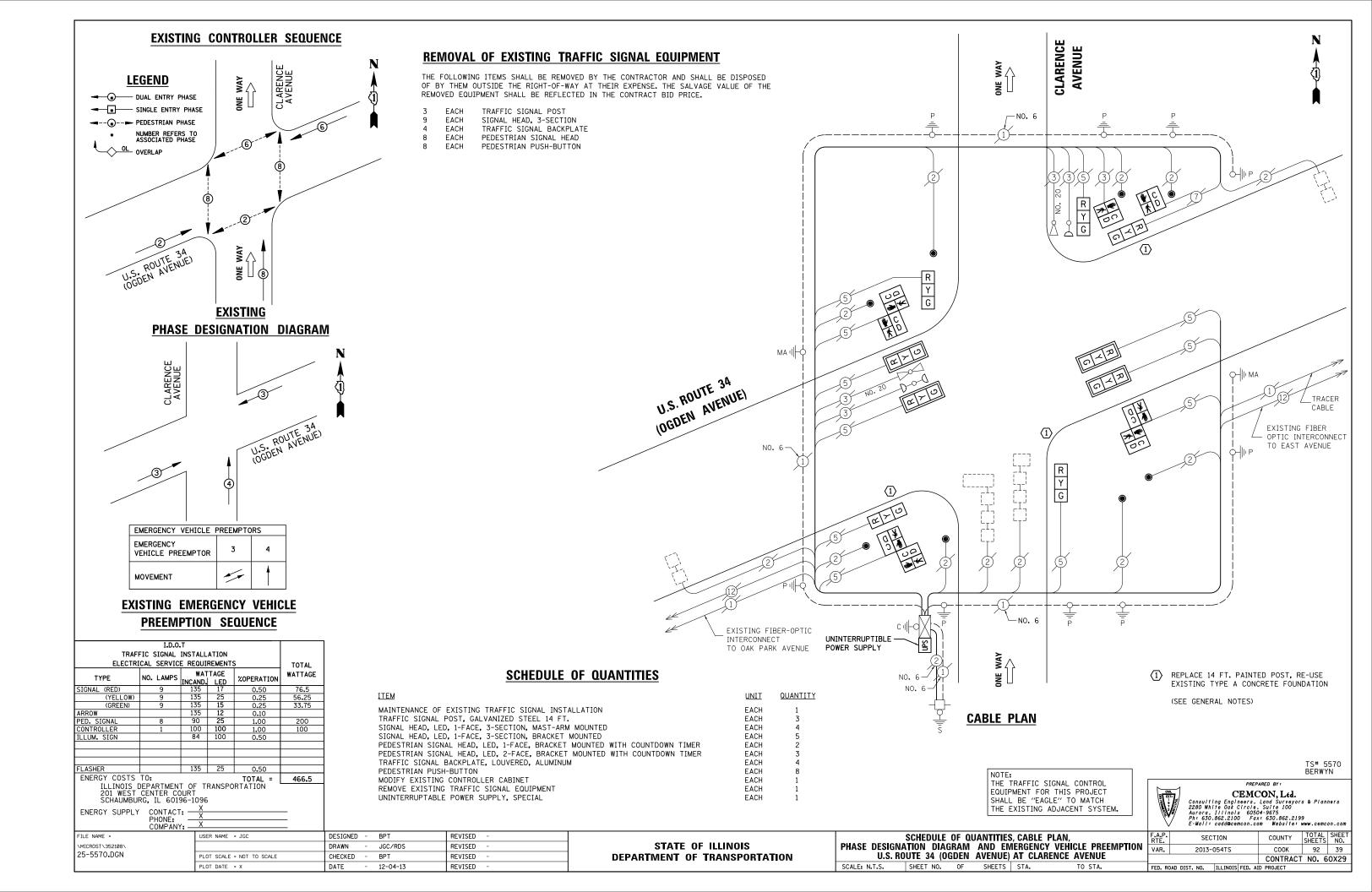


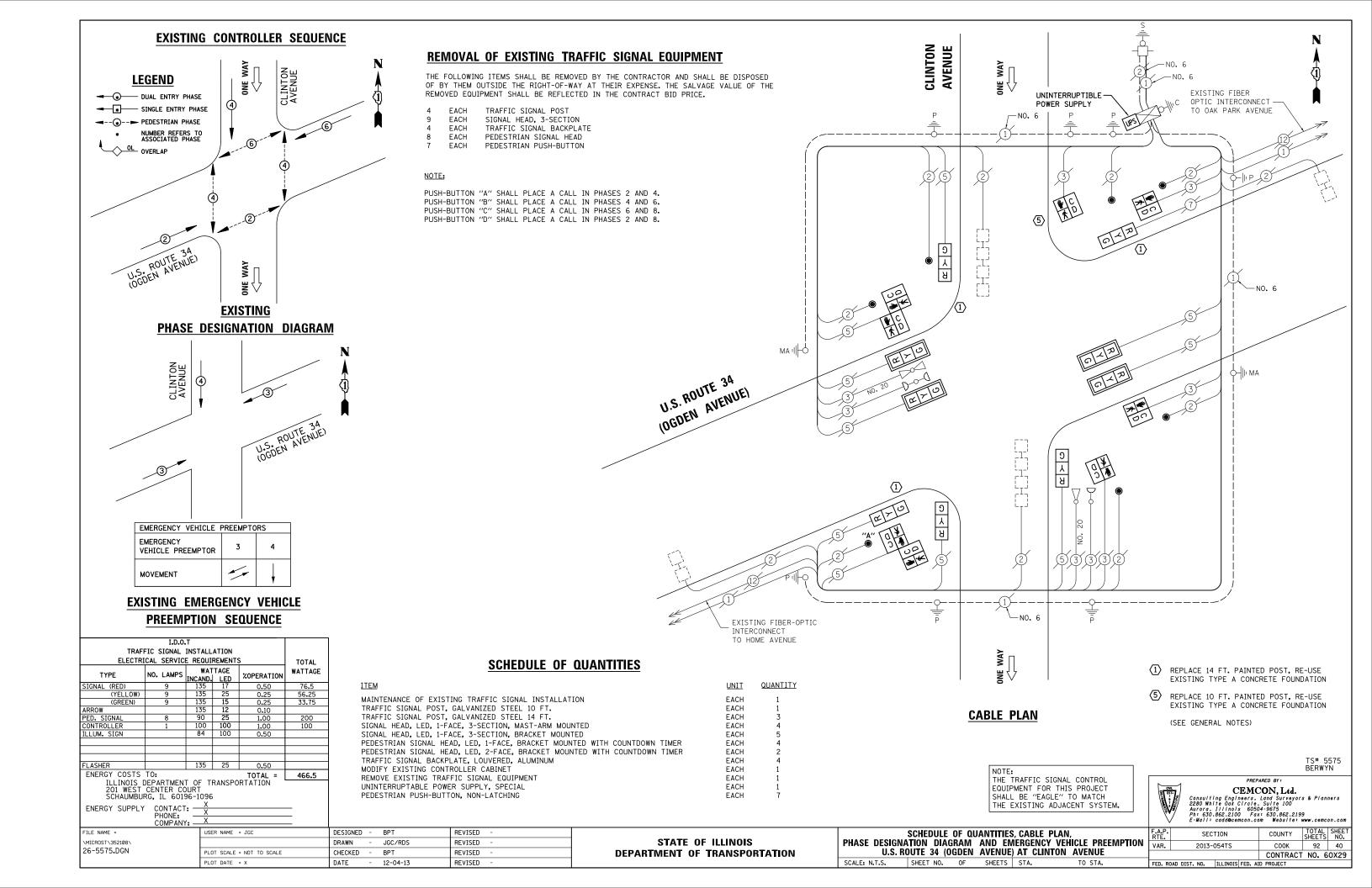


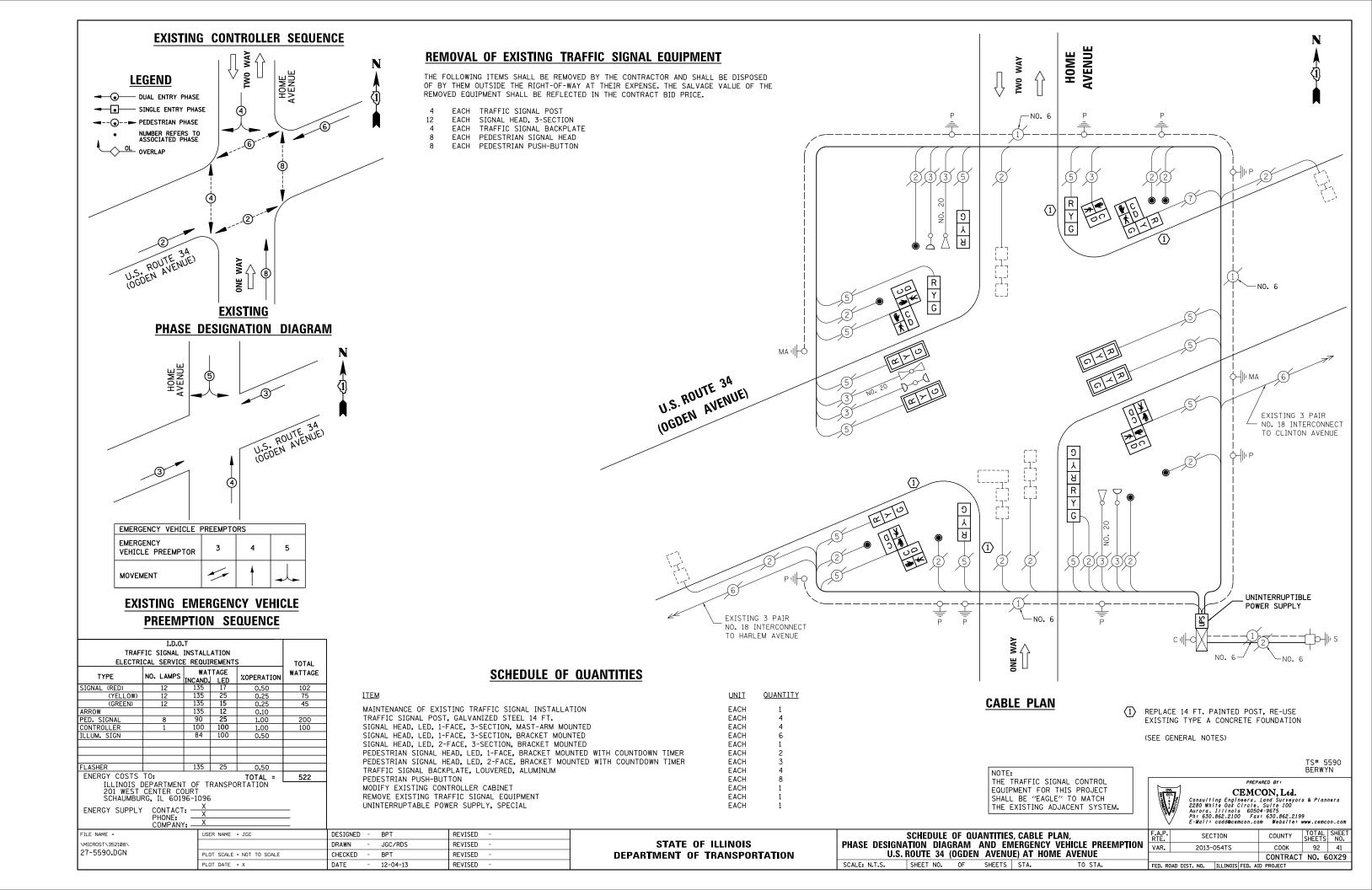


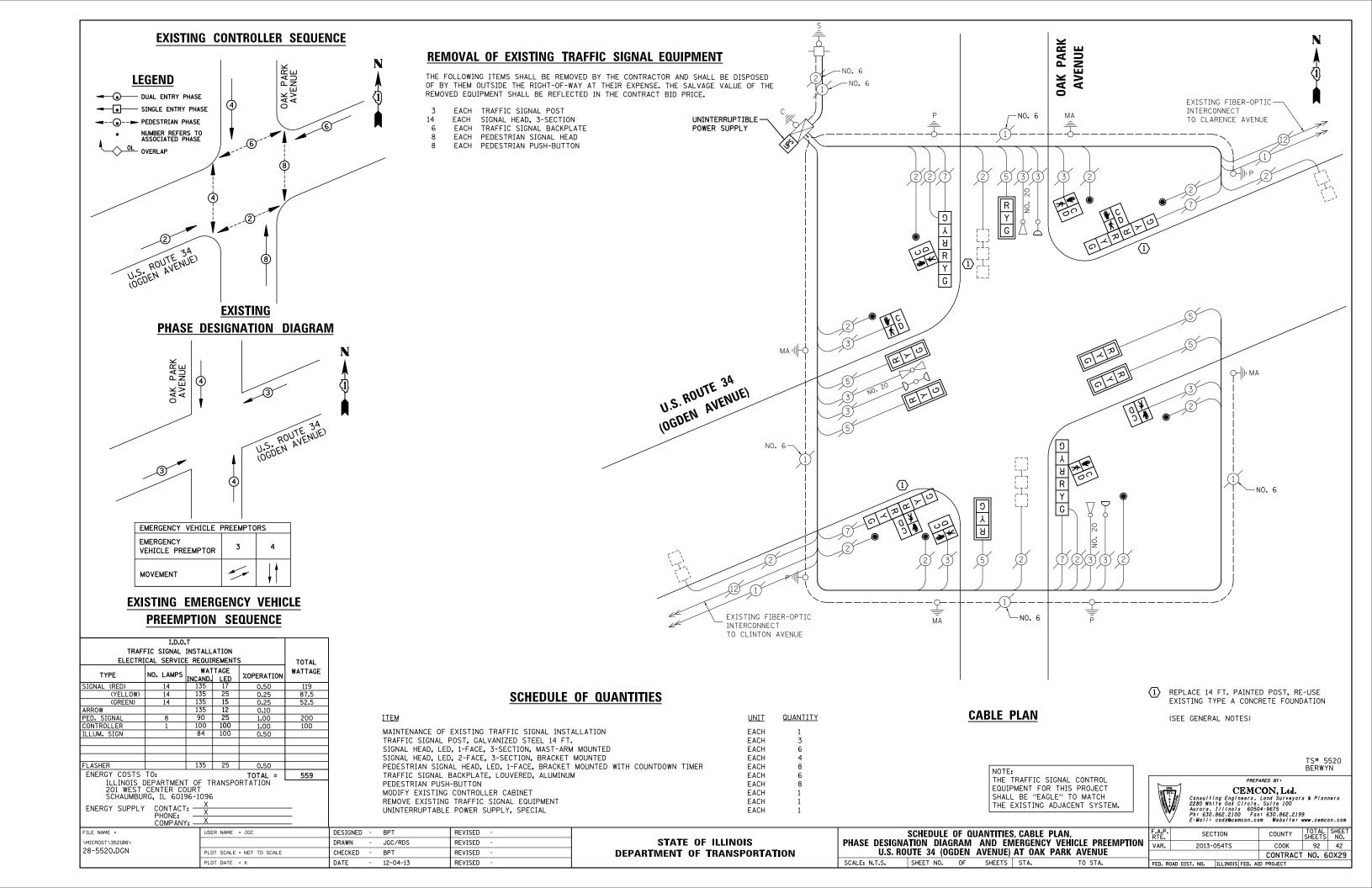


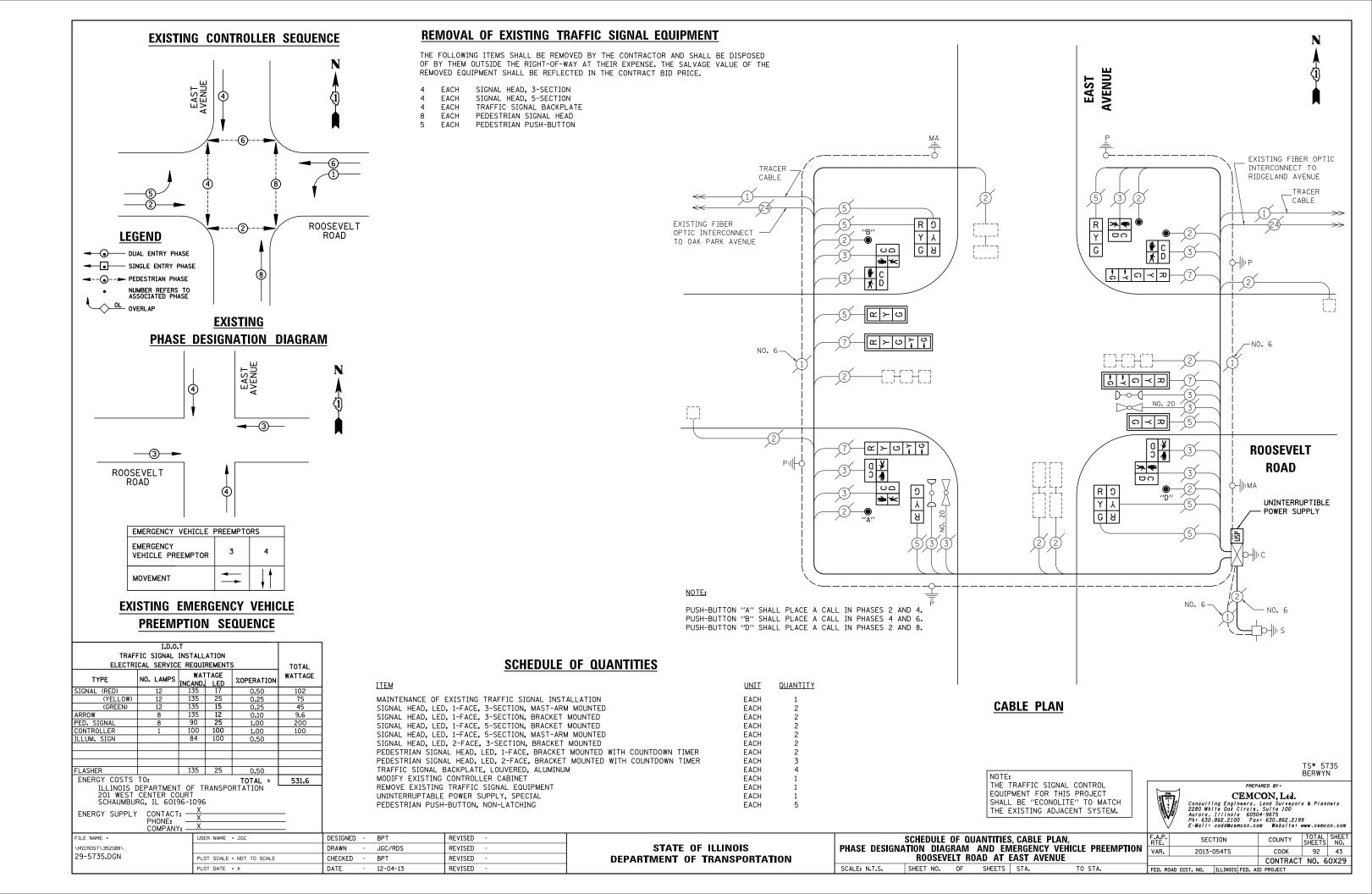


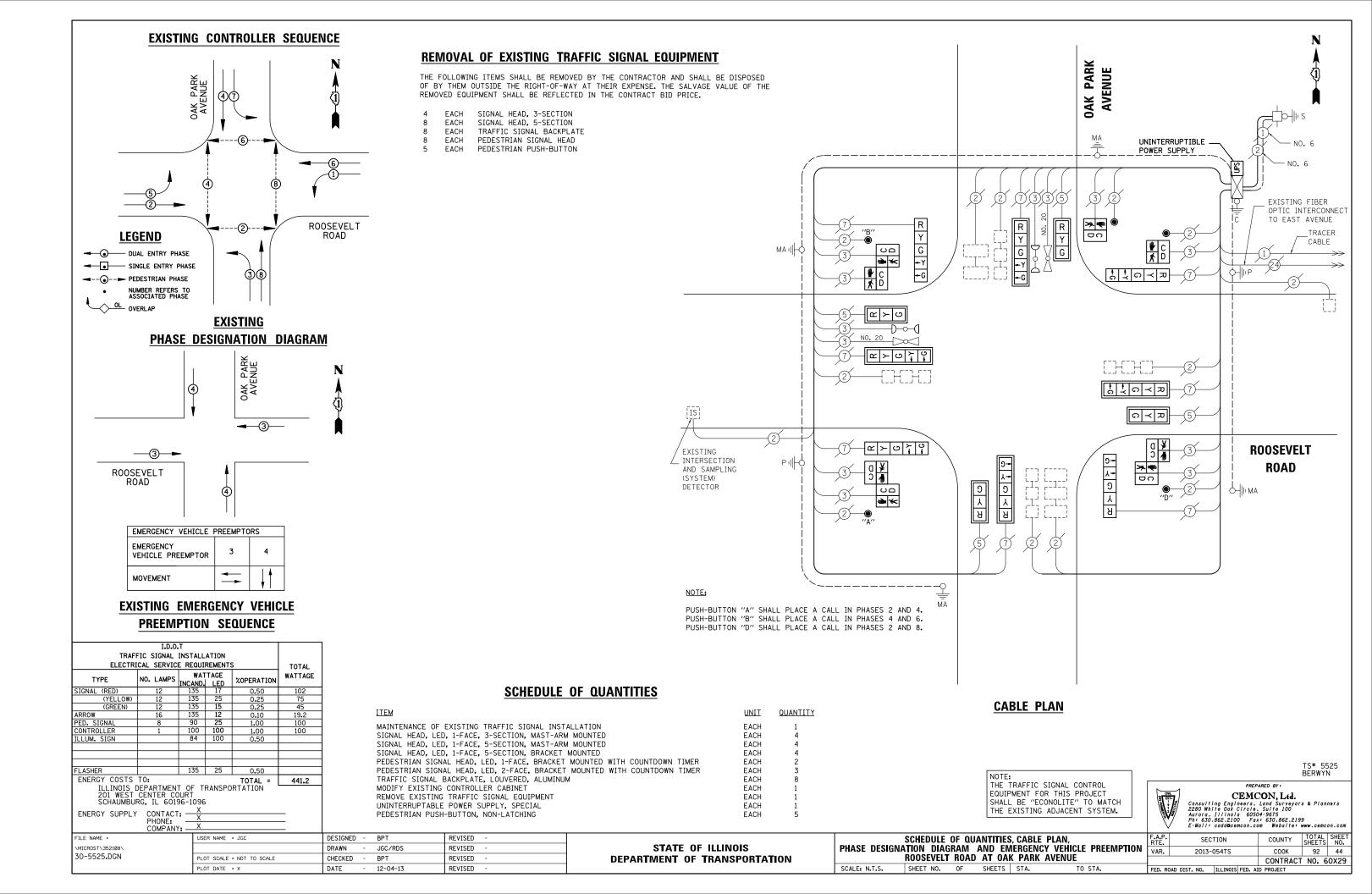


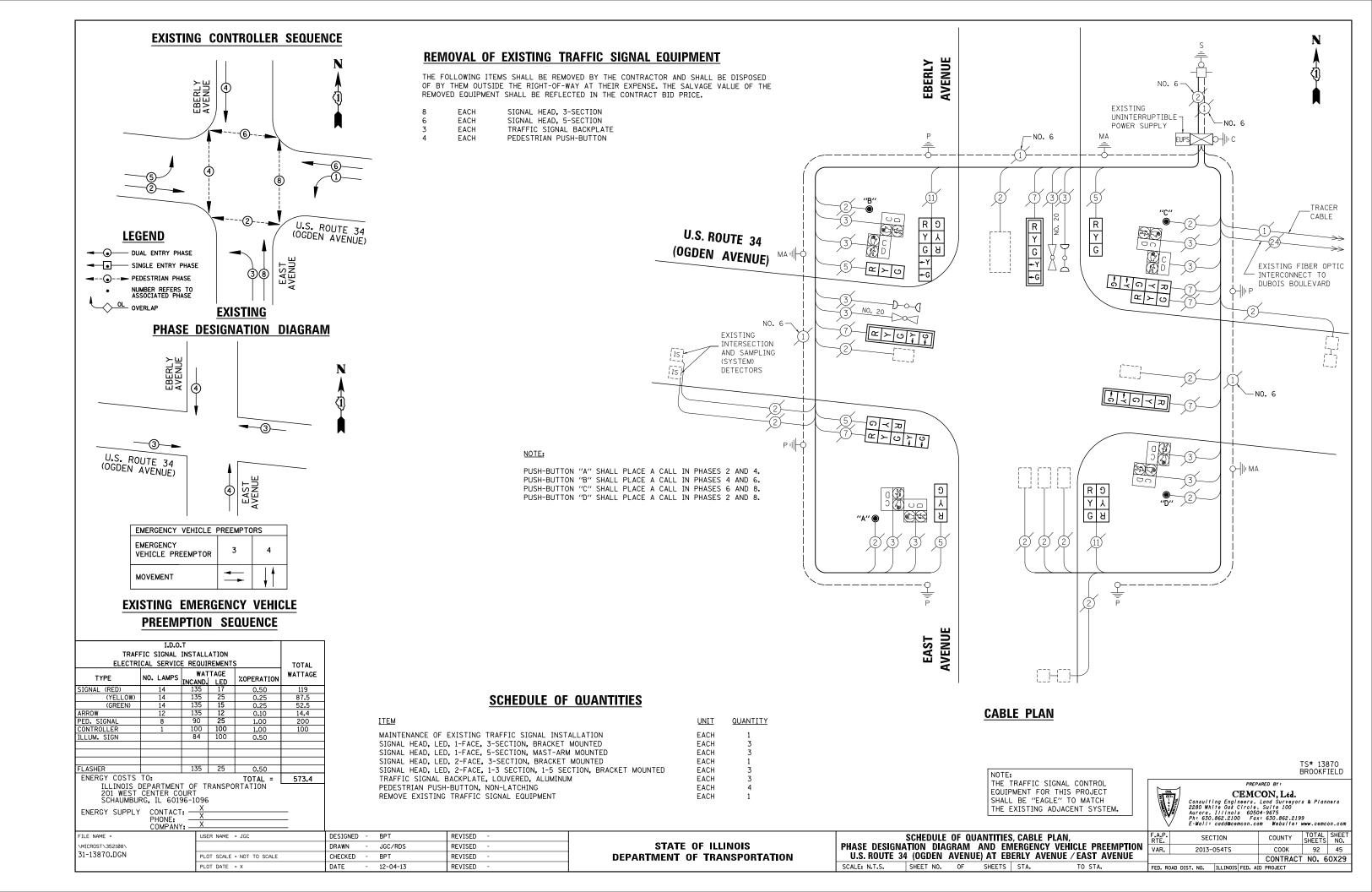


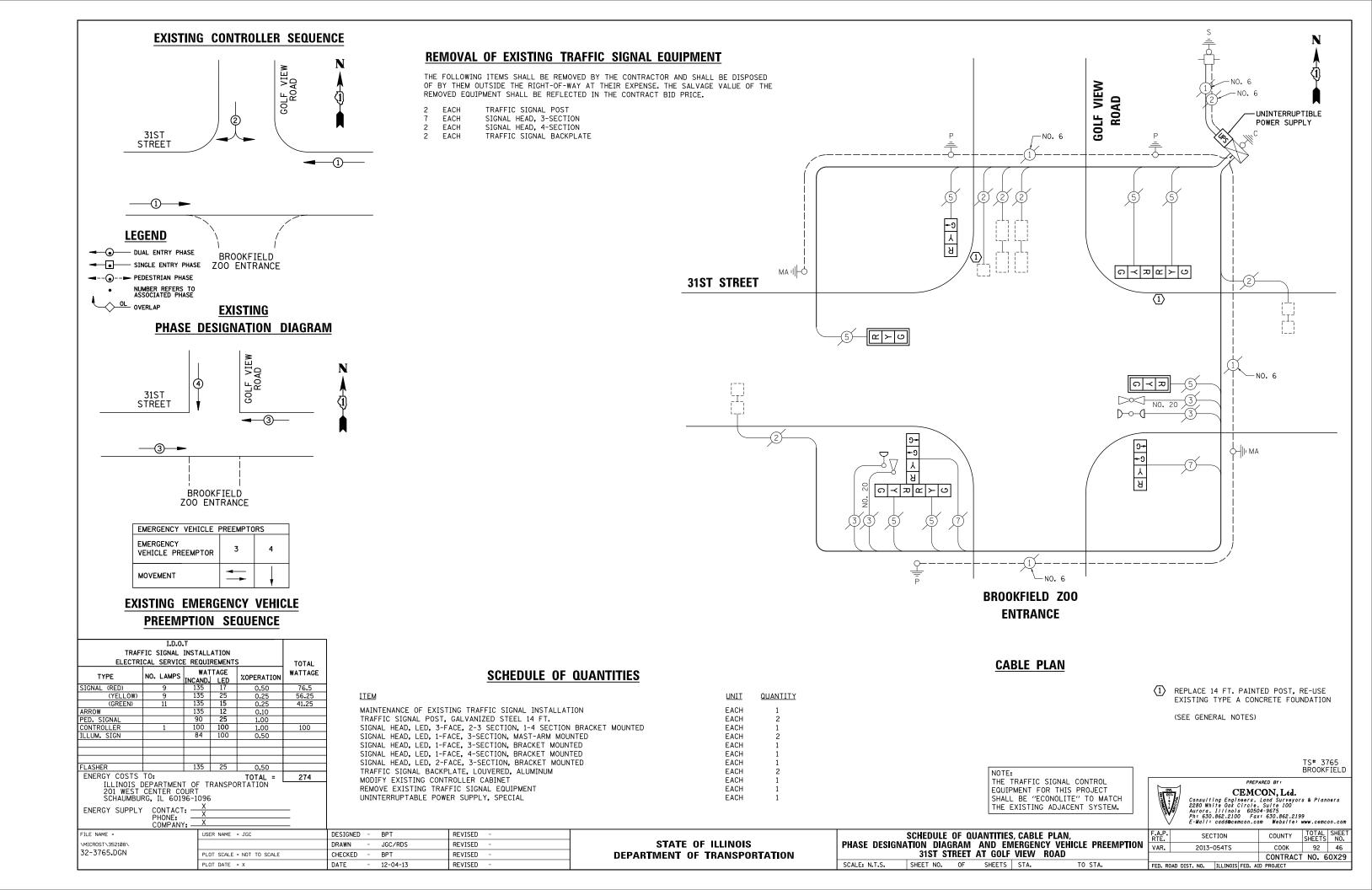


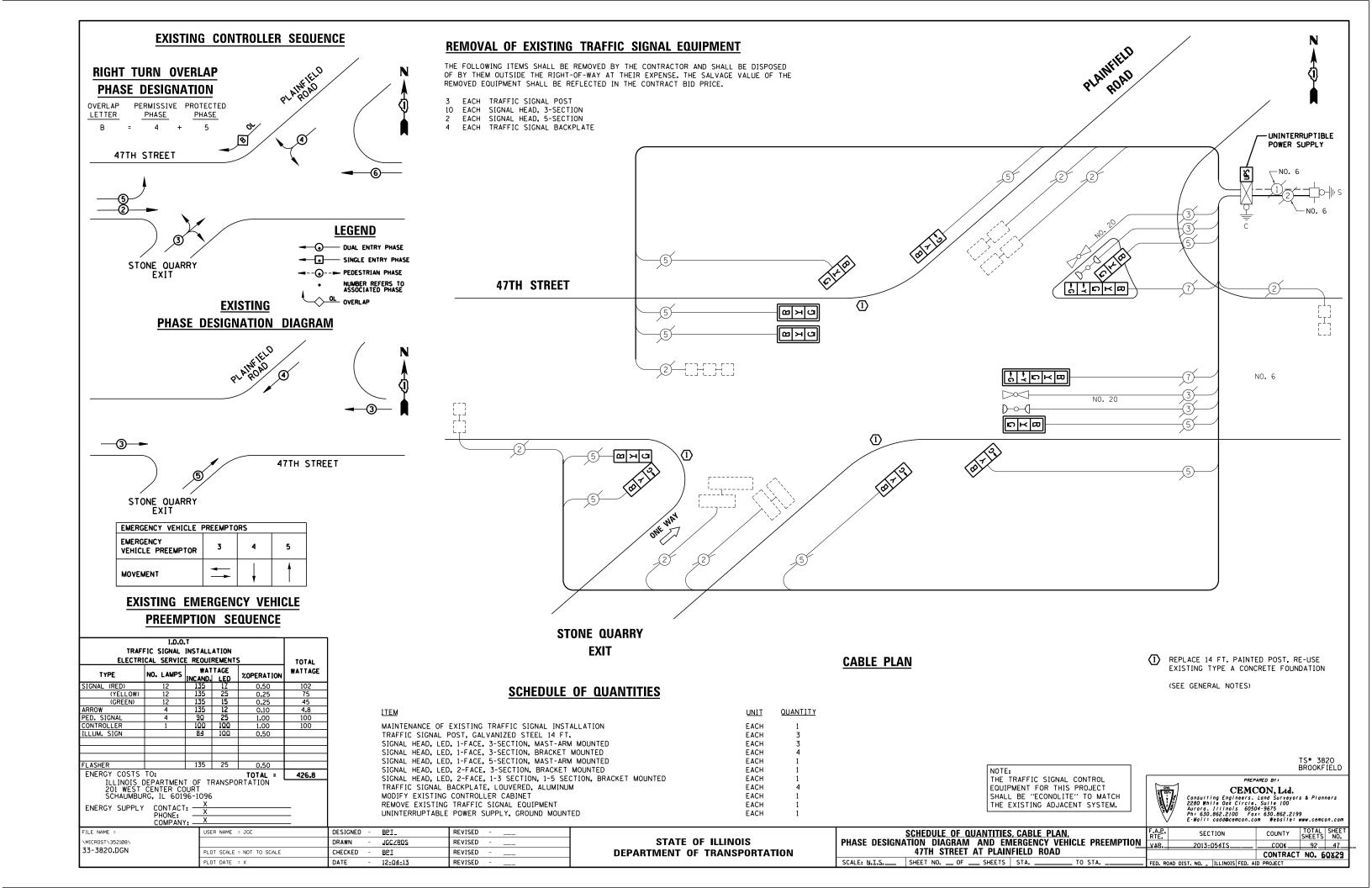


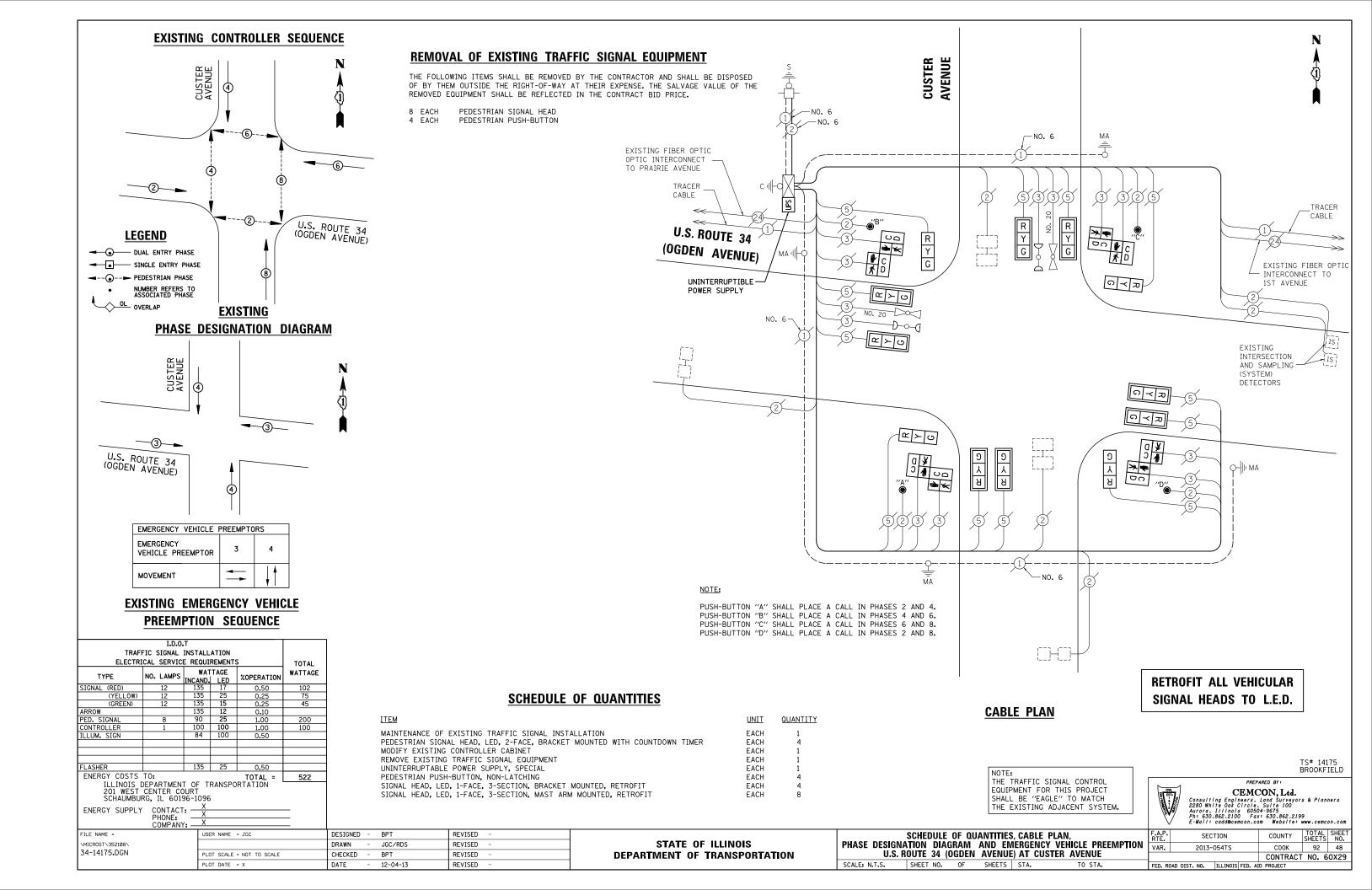


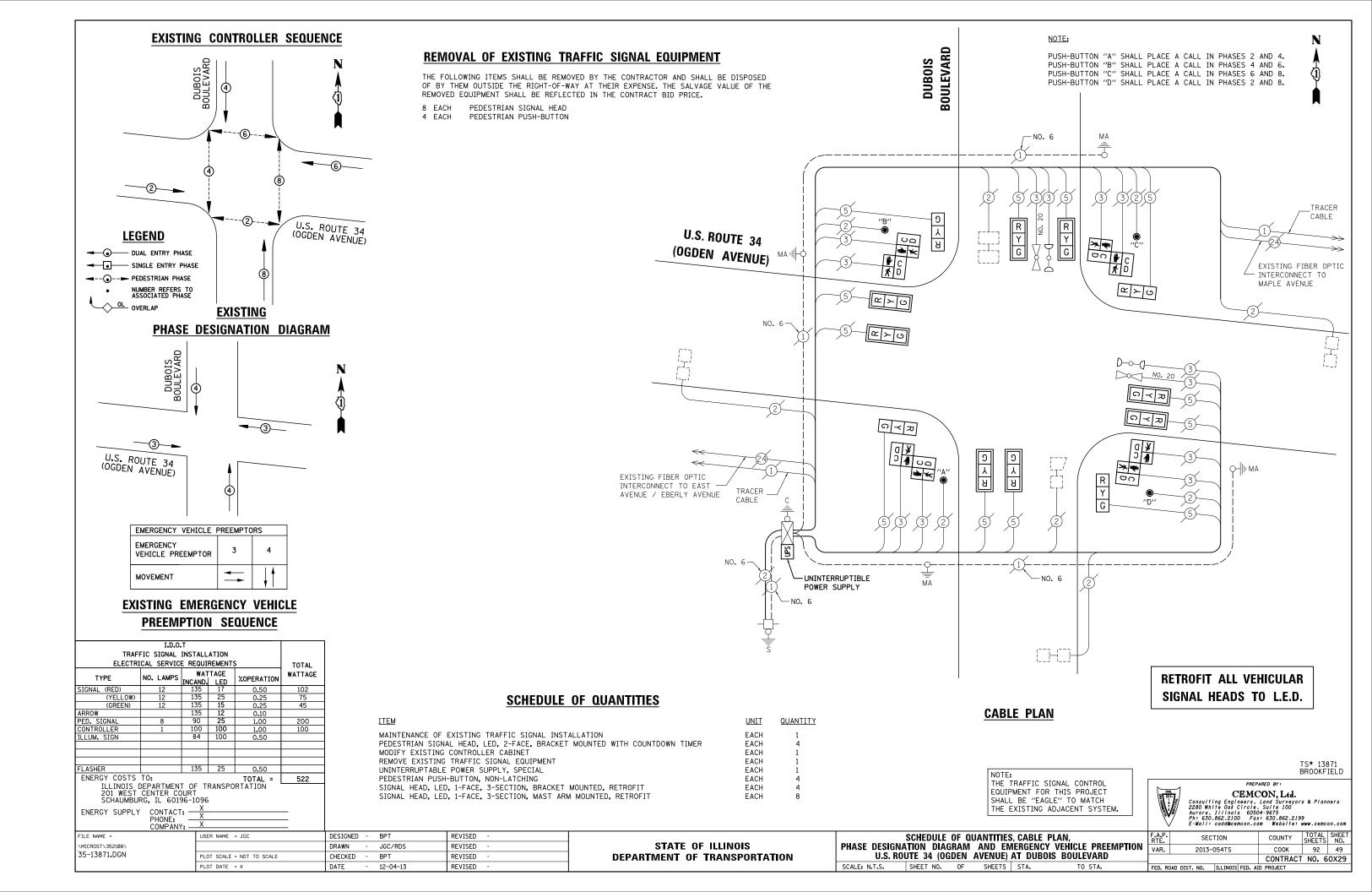


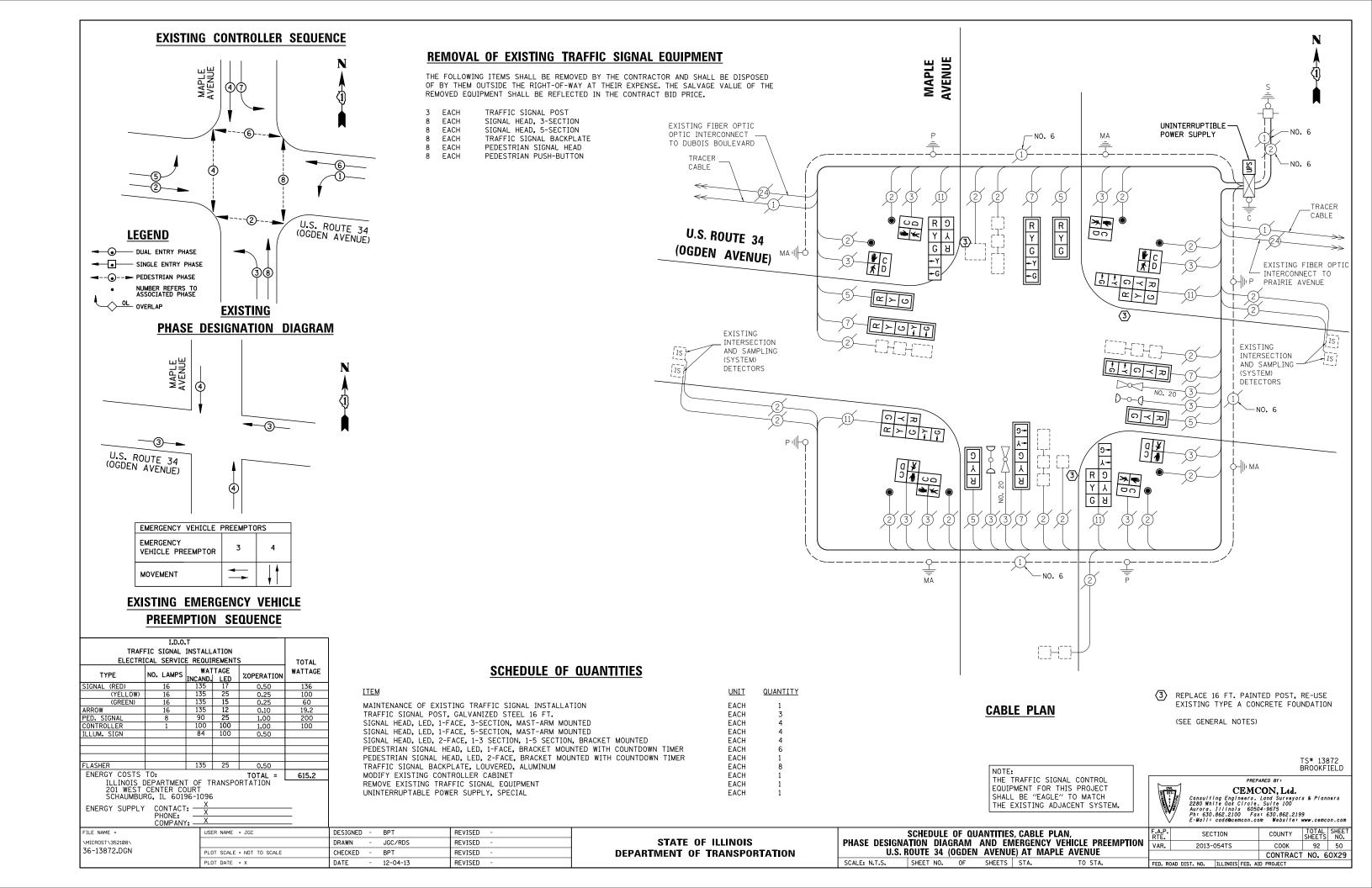


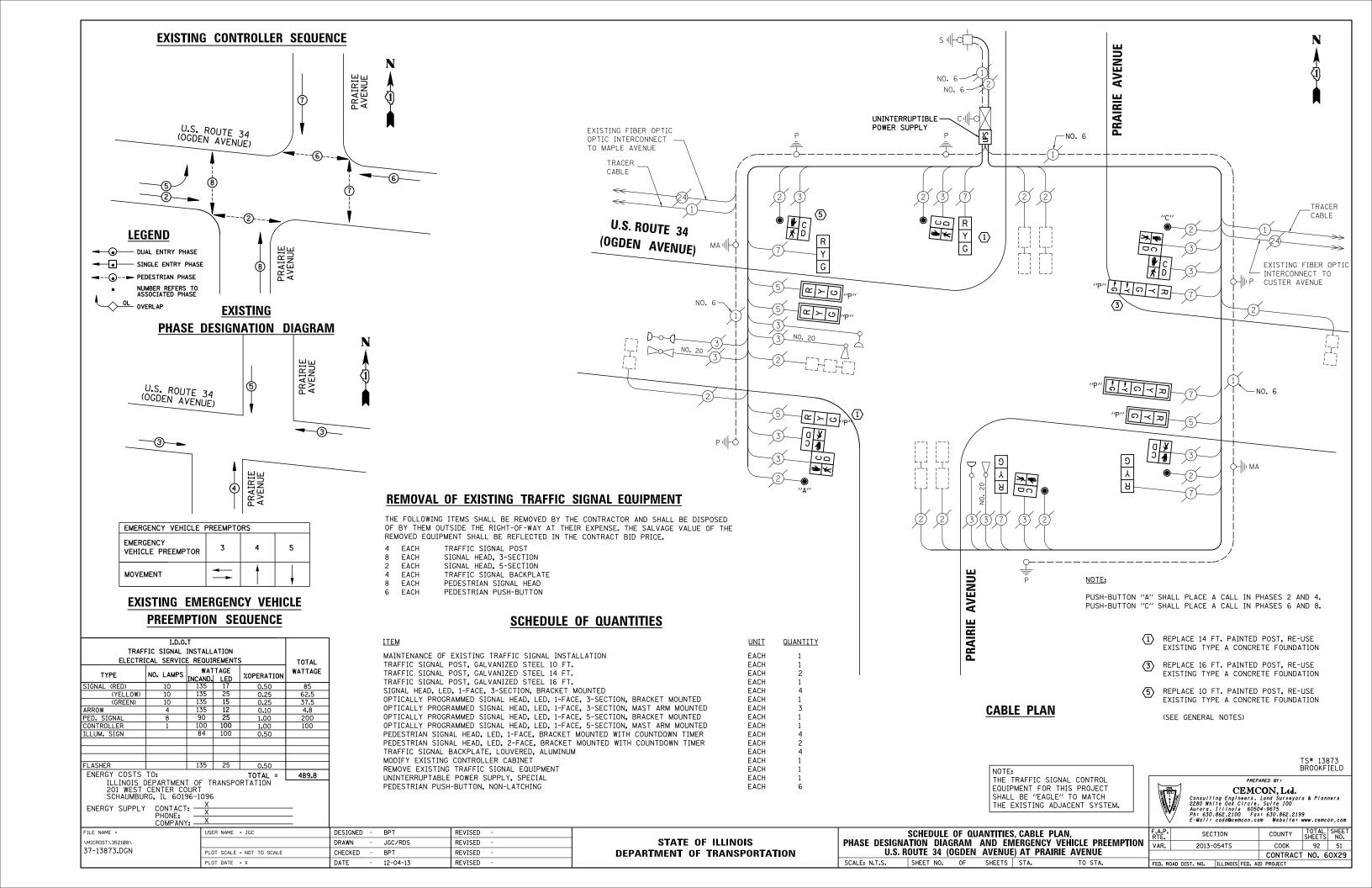


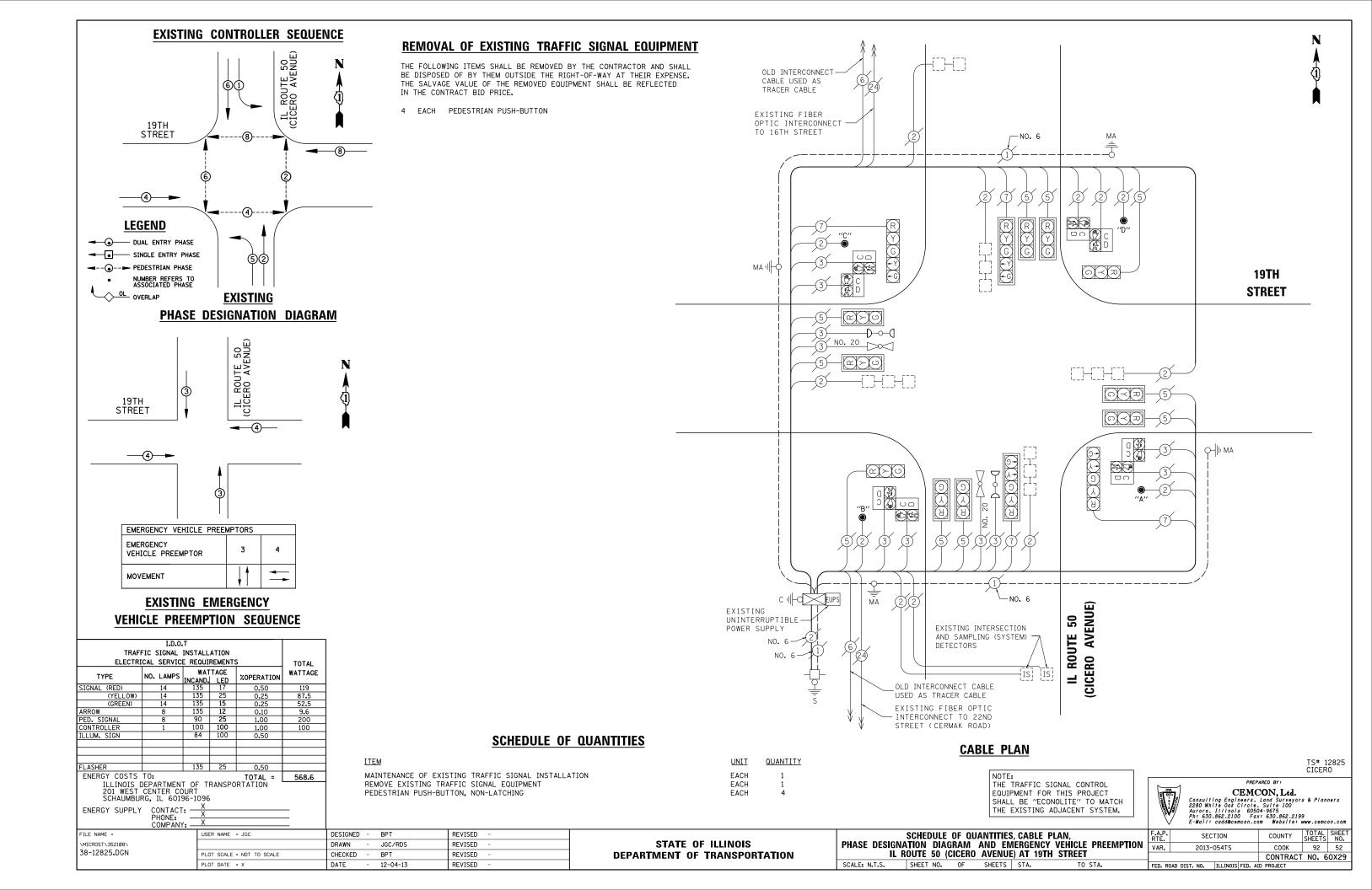


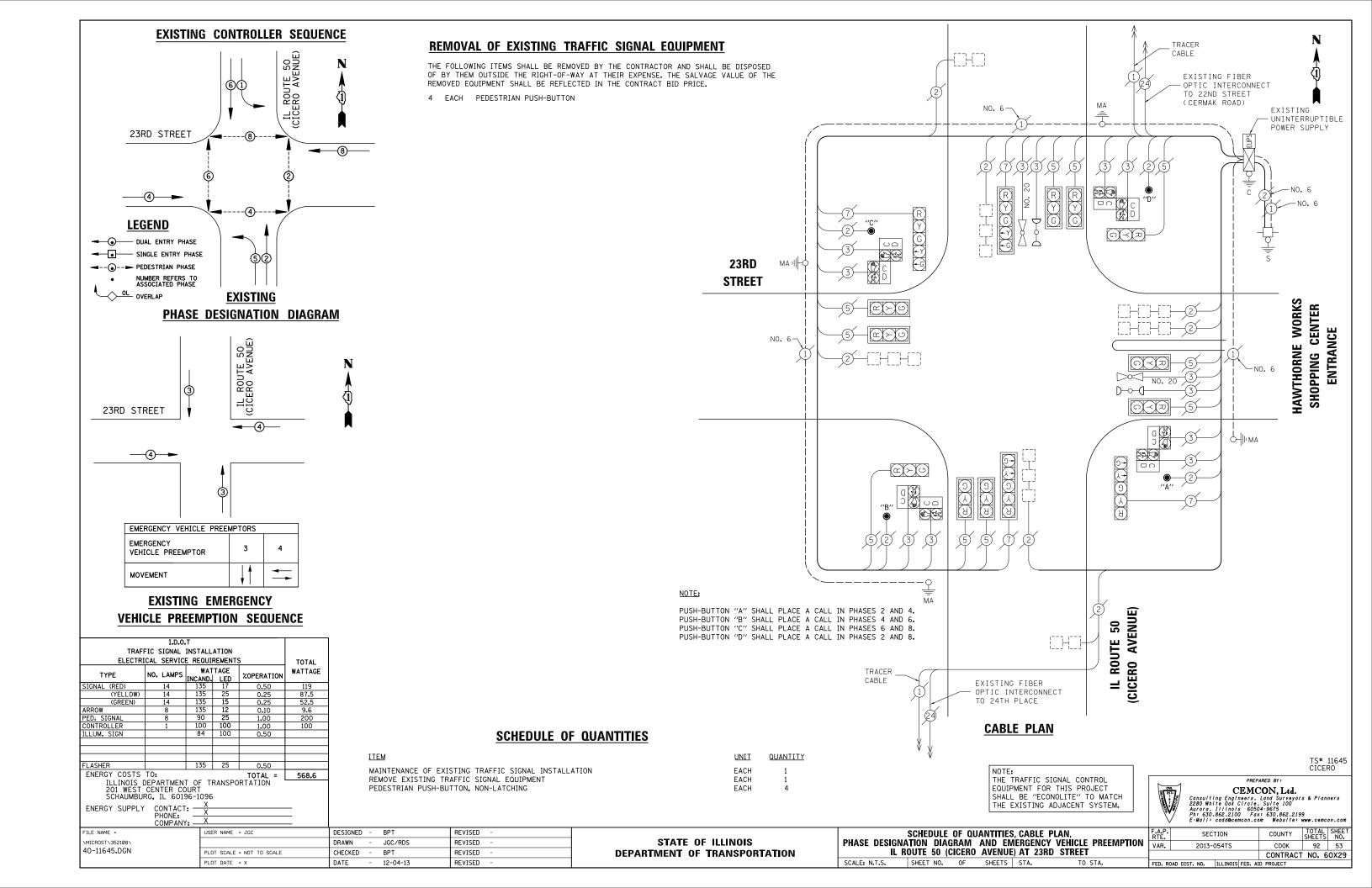


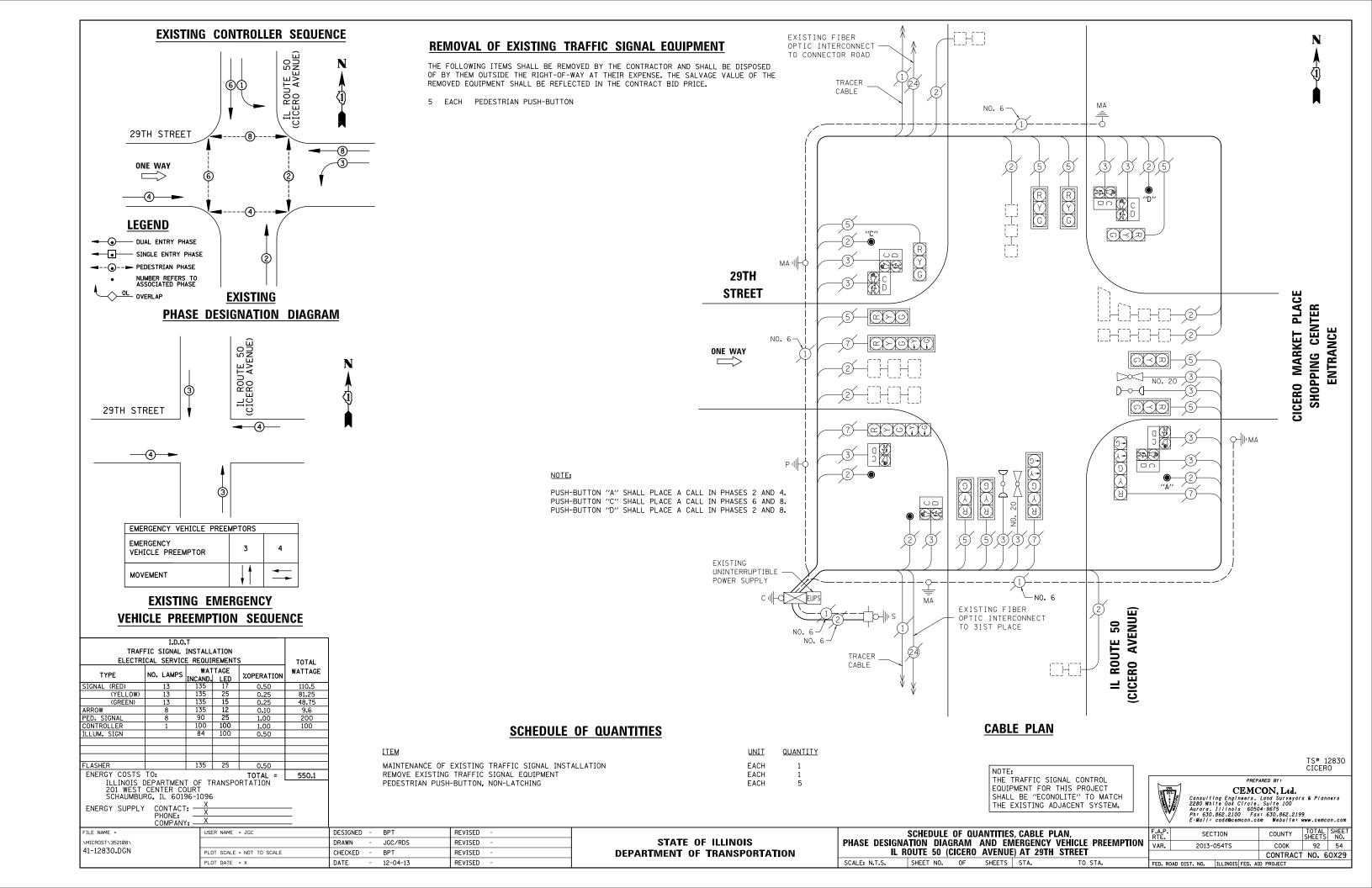


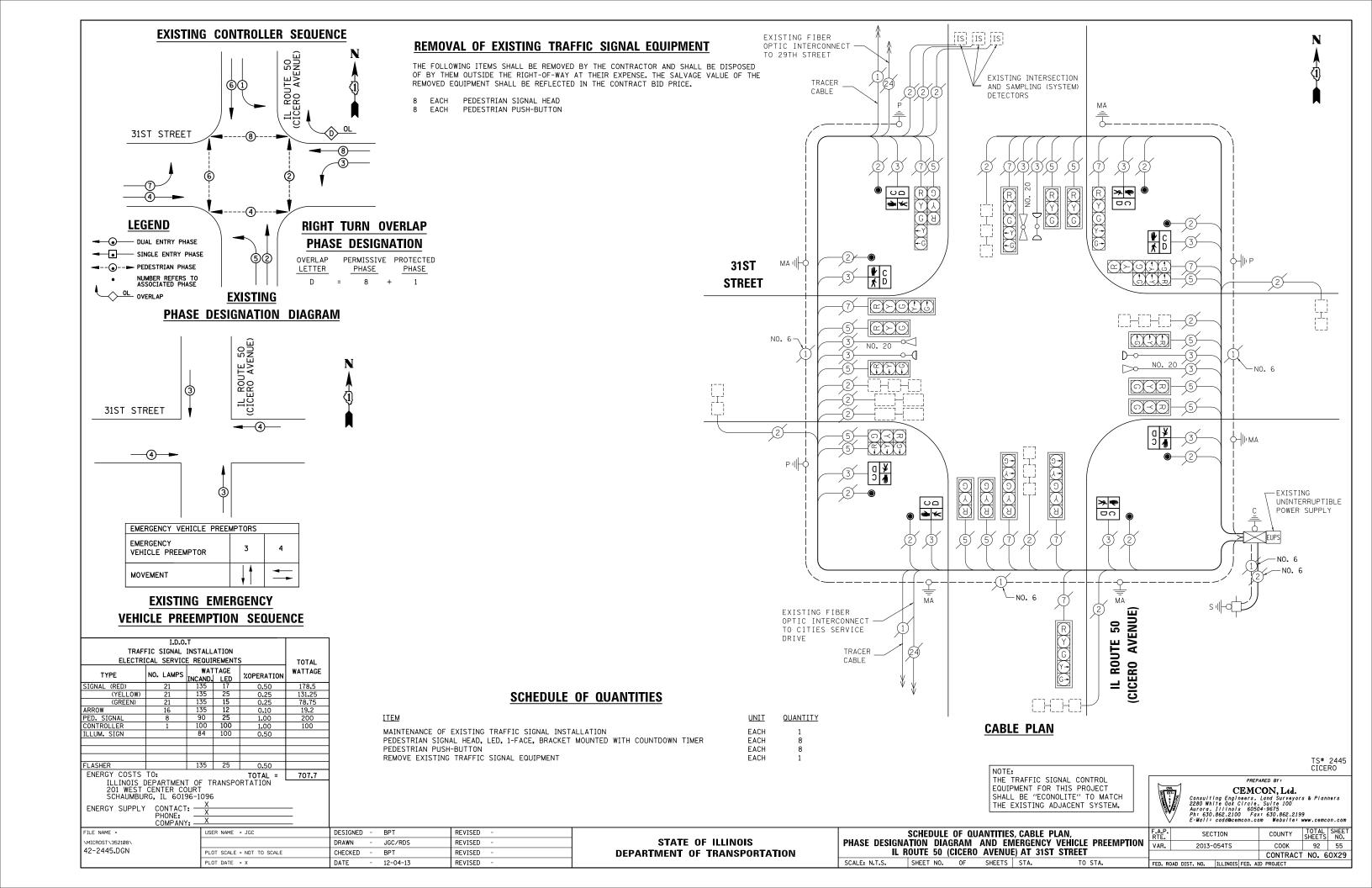


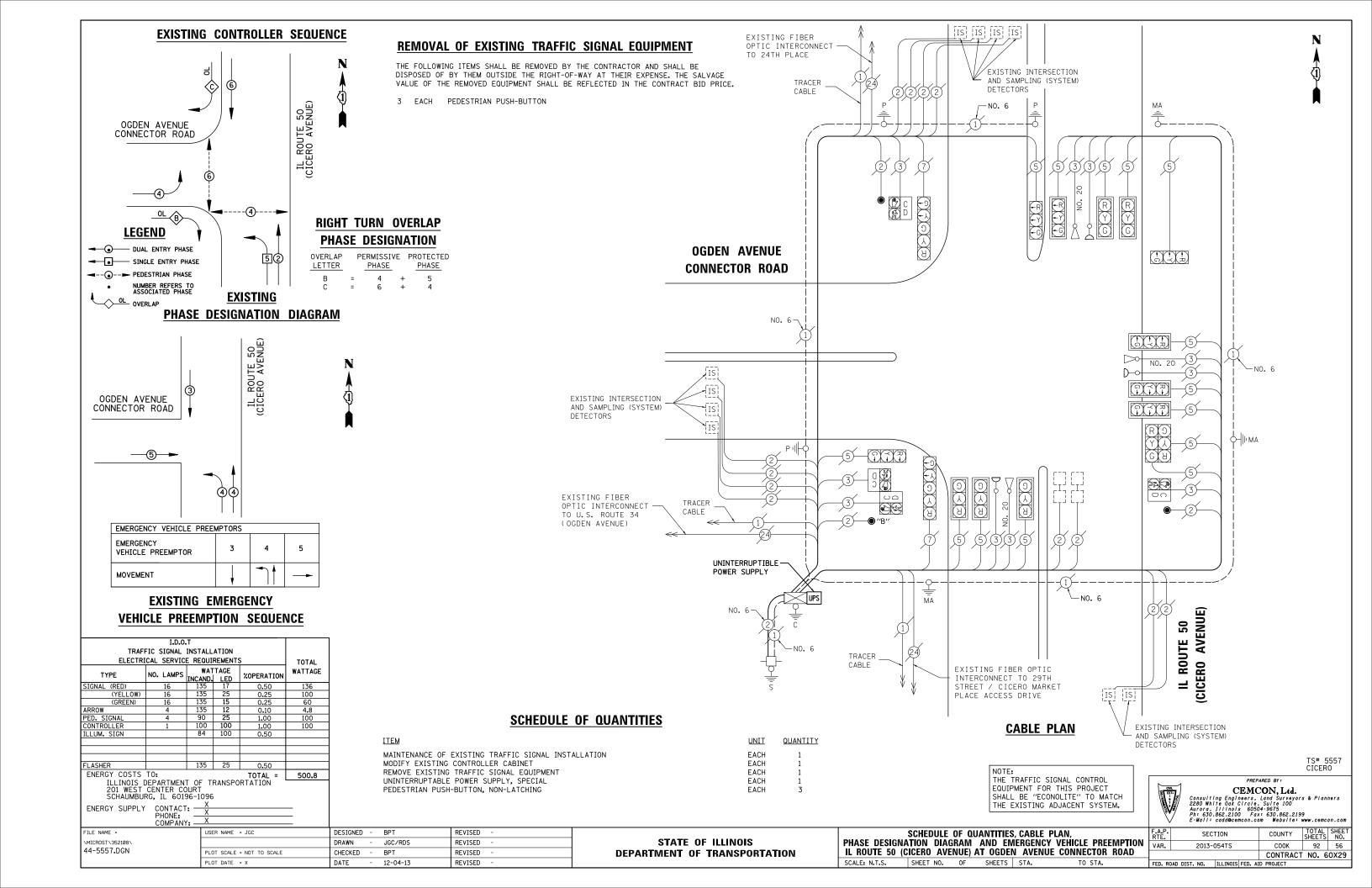


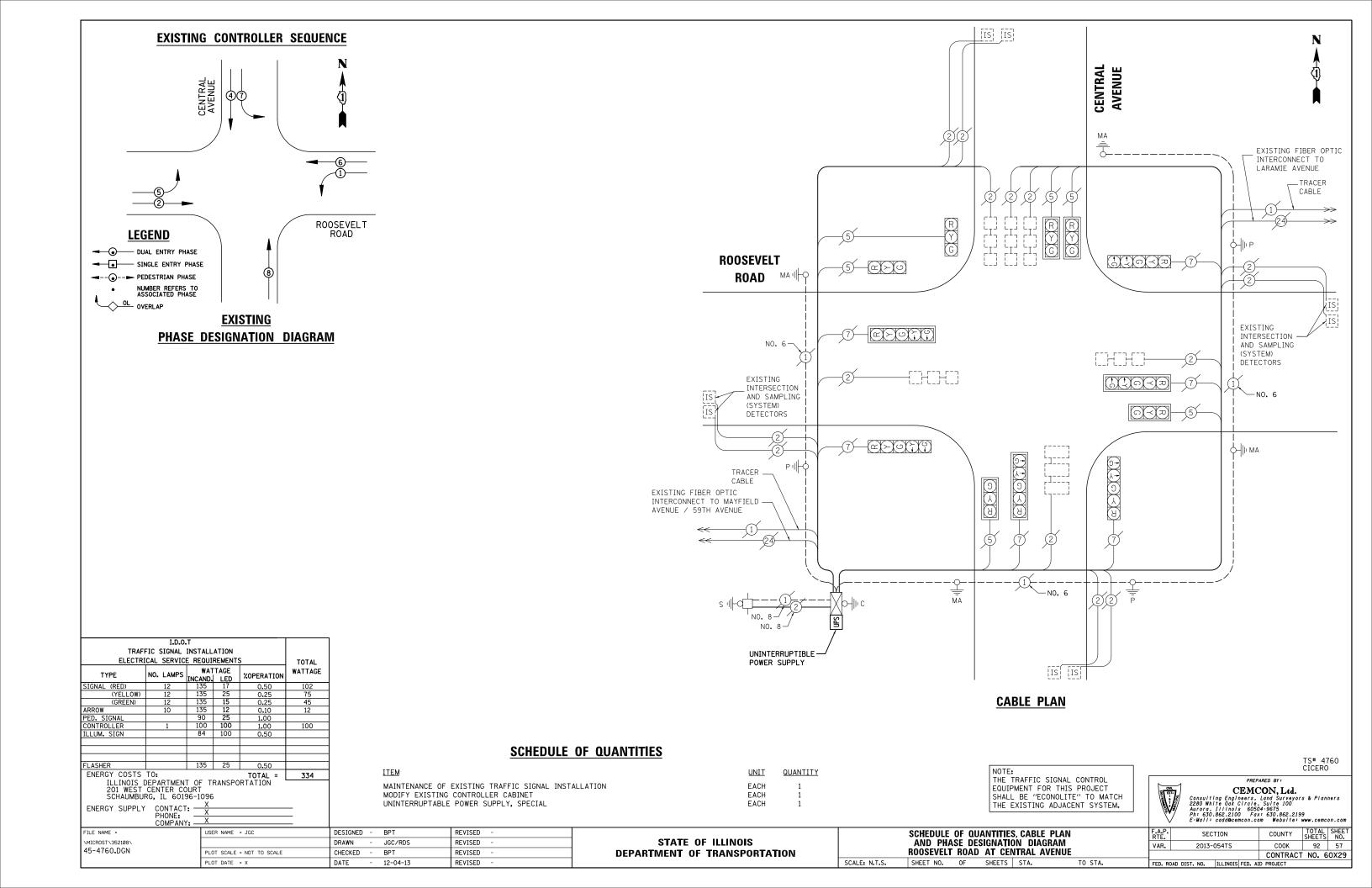


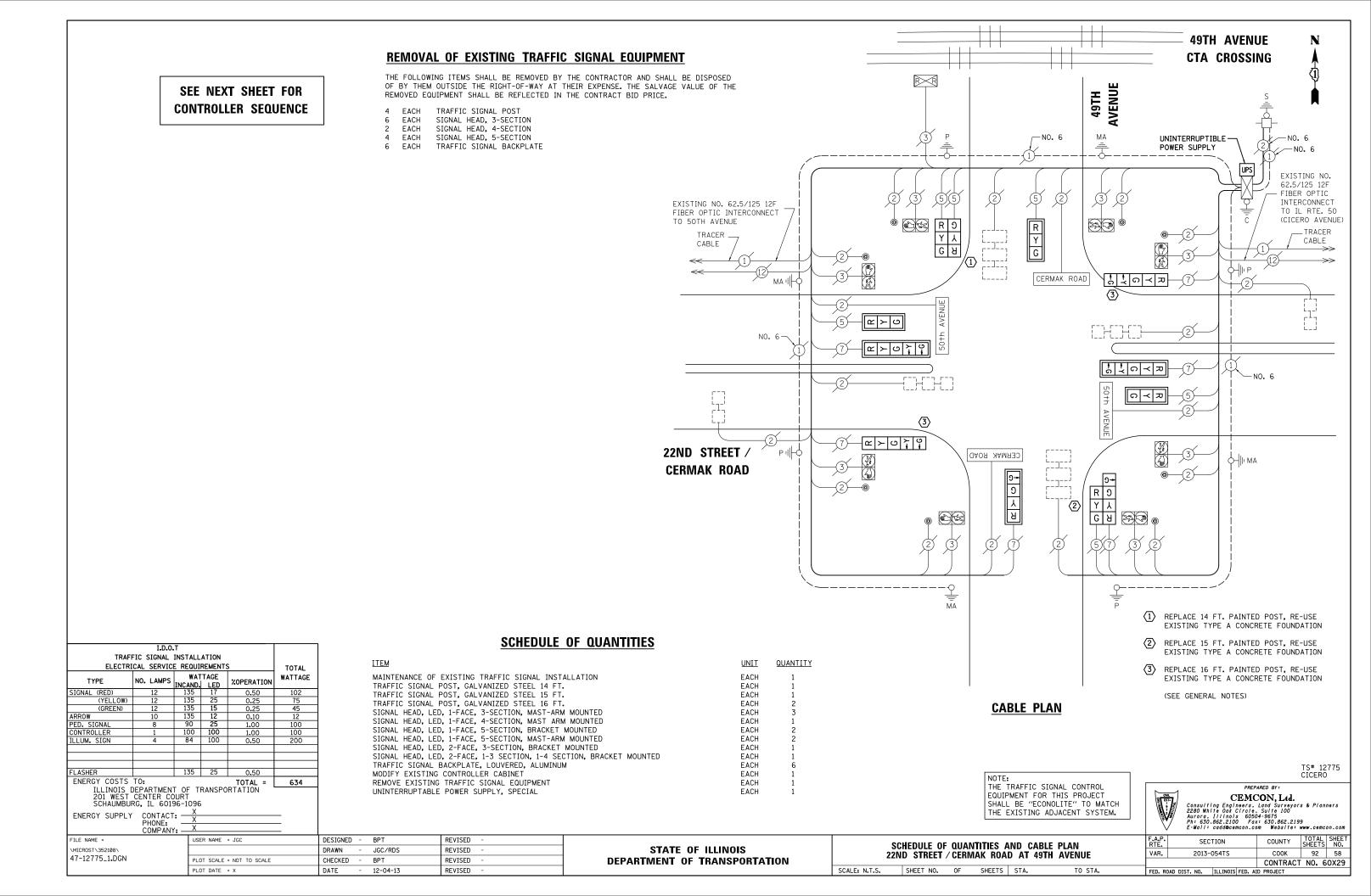












COUNTY TOTAL SHEE SHEETS NO. SECTION COOK TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SEQUENCE OF OPERATION

MOVEMENT	,	, <u>,</u>		1		-	; ;	,	52			2		}	1	1	† ‡		F
PHASE		1 + 5			1 + 6			2 + 5			2 + 6				4 + 8				А
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13A	138	14	15	16A		S
CHANGE TO		1+6	2+5	2+6	* /	Φ/	2+6	θ/	Φ/	2+6			4+	8			1+ 1+ 2+ 2+	-6 -5	н
CERMAK ROAD (22ND STREET) E/B FAR RIGHT MAST ARN SIGNAL	R	R	R	R	R	R	R	G	G	G	G _.	G	Y	R	R	R	R	R	R
CERMAK ROAD (22ND STREET) E/B END MAST ARM AND FAR LEFT SIGNALS	R ➡ G	R ➡ Y	R → G	R ⊸ Y	R	R	R	G G	G ⊶a+G	G ⊶••Y	Ģ	G	Υ	R	R	R	R	R	R
CERMAK ROAD (22ND STREET) W/B FAR RIGHT MAST ARN SIGNAL	R	R	R	R	G	G	G	R	R	R	G	G	Υ	R	R	R	R	R	F
CERMAK ROAD (22ND STREET) W/B END MAST ARM AND FAR LEFT SIGNALS	R • G	R ⊸≪+G	R ⊸ Y	R ⊸≖-Y	G ⊲ G	G ⊸a+G	G 	R	R	R	G	G	Y	R	R	R	R	R	F
49TH AVENUE N/B ALL SIGNALS	Я	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	F
49TH AVENUE S/8 NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	F
49TH AVENUE S/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	. R	R	R	G	G	Υ	R	F
PEDESTRIAN SIGNALS CROSSING 49TH AVENUE ON NORTH SIDE OF CERMAK ROAD	ВW	ÐW	D₩	D₩	**	**FL	DW	DW	Ð₩	DW	***	**FL DW	DW	DW	DW	DW	DW	DW	Ð
PEDESTRIAN SIGNALS CROSSING 49TH AVENUE ON SOUTH SIDE OF CERMAK ROAD	DW	OW	DW	D₩	DW	DW	DW	*₩	**FL D₩	DW	**	**FL DW	DW	DW	DW	DW	DW	0W	A
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF 49TH AVENUE	DW	OW	DW	Ð₩	DW	D₩	D₩	D₩	DW	DW	DW	D₩	DW	DW	**	**FL	WG	0W	Я
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF 49TH AVENUE	DW	₽₩	DW	DW	DW	DW	DW	DW	DW	₽₩	DW	DW	DW	wa	**	##FL DW	D₩	DW	K

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

THIS "WALK" DR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

w = "WALK" FL = FLASHING "DON'T WALK" DW = "DON'T WALK"

PHASE 2+6 SHALL BE PLACED ON RECALL.

CHANGE FROM NORMAL SEQUENCE OF 0F 0FERATION INTERVAL NUMBER 1	2 3 R R R	3 4 R R R	4 5 R R R	5 6 6	CLEAR TO NORMAL SEQUENCE
OPERATION INTERVAL NUMBER 1A 1B 1C 1D 1E IF 13 18 10 CHANGE TO RAILRADD PREEMPTION CHANGE TO OPERATION INTERVAL NUMBER 2 1C 2 1E 2 1G 2 1J 2 CSPMAK ROAD (22ND STREET) E/B R R R Y R Y R R R R R R Y R Y R <	3 R R	4 R R	5 R R	6	TO NORMAL SEGUENCE
SEQUENCE OF OPERATION INTERVAL NUMBER CERNAK ROAD (22ND STREET) E/B R R R R R R R R R R R R R	R R R	R R	RRR	6	SEQUENCE
PAR RIGHT MAST ARM STONAL CERNANK ROAD (22ND STREET) E/B R R R R R R R R R R R R R	R	R	R	6	Δ
END MAST. ARM AND FAR LEFT SIGNALS CERMAK ROAD CZAD STREET) FR RIGHT MAST ARM STOKAL CERMAK ROAD CZAD STREET) W/B R Y R R Y R R R R R R R R	R	R	R	6	Δ
FUR RIGHT MAST ARM SIGNAL CERMAN ROAD (22ND STREET) W/B R Y R R R R R R R R R R R	-	-	-	-	
END MAST ARM AND FAR LEFT SIGNALS	R	R	R	6	Δ
ALL SIGNALS			-	1	
NEAR RIGHT SIGNAL 48TH AVENUE S/B R R R R R G G	R	R	R	R	Δ
TELL RICHOLD	G	Y	R	R	Δ
	G ⊶•4-G	Y	R	R	Δ
PEDESTRIAN SIGNALS CROSSING 49TH DW	DW	DW	DW	DW	Δ
PEDESTRIAN SIGNALS CROSSING 49TH DW	DW	DW	DW	₽₩	Δ
PEDESTRIAN SIGNALS CROSSING CERMAK DW	DW	DW	DW	DW	Δ
FEDESTRIAN SIGNALS CROSSING CERMAK DW	DW	Ð₩	D₩	DW	Δ

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

ILLINOIS DEPARTMENT OF TRANSPORTATION SEQUENCE OF OPERATION AND RAILROAD PREEMPTION SEQUENCE OF OPERATION

CHRISTOPHER S. BURKE ENGINEERING LTD.

CERMAK ROAD (22ND STREET) AND 49TH AVENUE DRAWN BY FN CHECKED BY GMZ SCALE N.T.S

EXISTING SEQUENCES - INCLUDED FOR REFERENCE ONLY

TS# 12775 CICERO PREPARED BY:

COnsulting Engineers. Land Surveyors & Planners 2880 White Dollars 6.5 Sulf 100 Aurora, Illinois 6.5 Sulf 100 Aurora, Illinois 6.5 Sulf 100 Aurora, 111 Aurora, 6.504-9875 Feb. 630.862.2109 Feb. 630.862.2109 E-Wall: caddocemcon.com Website: www.cemcon.com

FILE NAME =
\MICROST\352108\ 47-12775_2.DGN
47-12775_2.DGN

USER NAME = JGC	DESIGNED	-	BPT	REVISED -
	DRAWN	-	JGC/RDS	REVISED -
PLOT SCALE = NOT TO SCALE	CHECKED	-	BPT	REVISED -
PLOT DATE = X	DATE	-	12-04-13	REVISED -

n:\dgn\trafs.g\96-175\railroad\97-22\49_carm.dgn

	F.A.P. RTE.		SEC	ΓΙΟΝ			COUNTY	TOTAL SHEETS	SHEET NO.
	VAR.		2013-0	D54TS		соок	92	47	
_							CONTRACT	NO. 6	0X29
	FED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		

SEQUENCE OF OPERATION, RAILROAD PREEMPTION SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION

FED. R

SEE NEXT SHEET FOR CONTROLLER SEQUENCE

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

CONTACT: PHONE:

(GREEN)

FLASHER

FILE NAME =

MICROST\3521Ø8

48-12780_1.DGN

ENERGY SUPPLY

WATTAGE NCAND. LED 135 17 135 25

TOTAL

WATTAGE

634

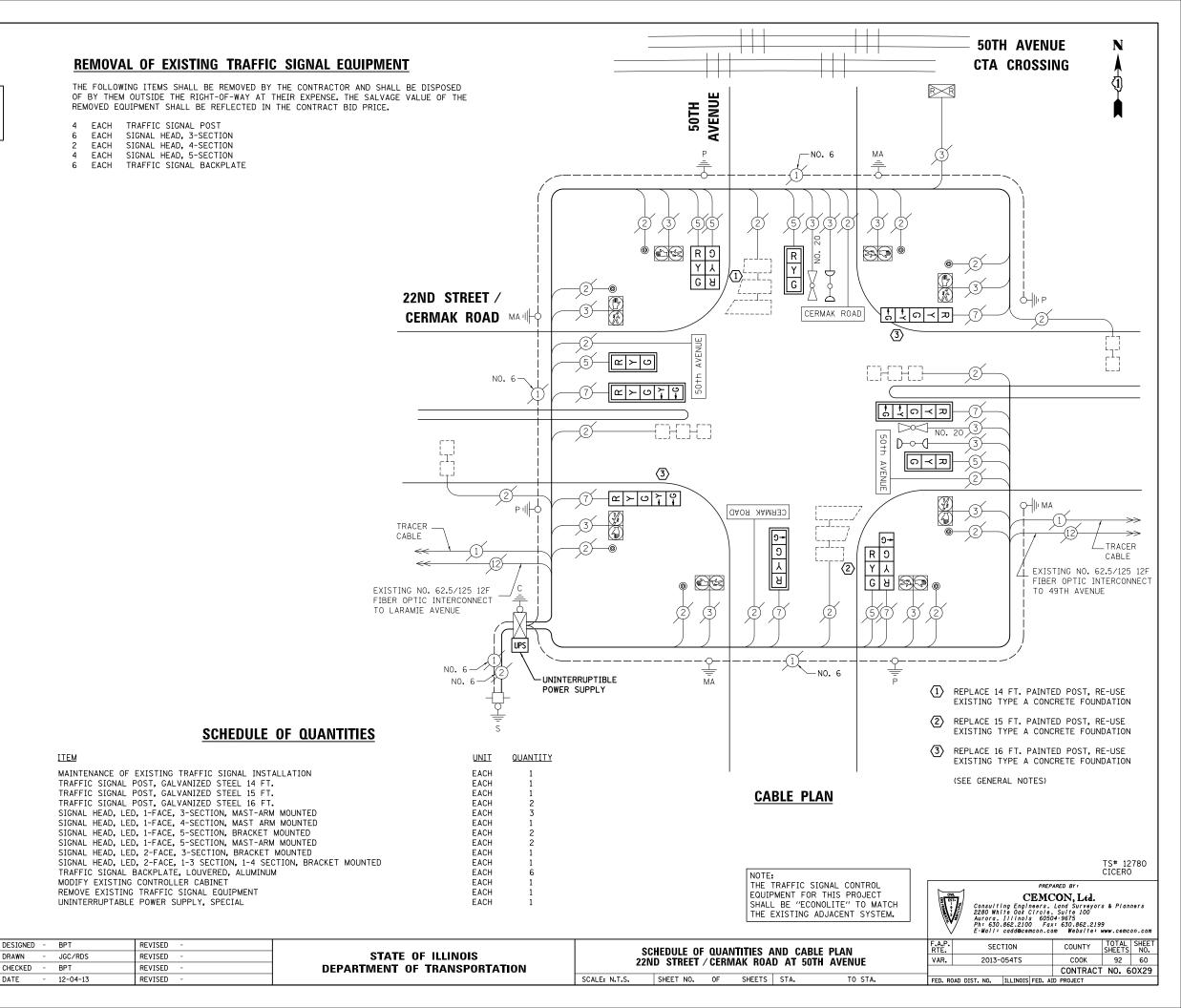
%OPERATION

0.50

USER NAME = JGC

PLOT DATE = X

PLOT SCALE = NOT TO SCALE



SEQUENCE OF OPERATION

MOVEMENT		5_5	·	1			5		5		1	→ 2 →	> ← (>	5	4	4	\$ \$		F
PHASE		1 -	+ 5			1 + (Ĝ	;	2 + 5	;		2 -	- 6			4 +	- 8		L A
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13A	138	14	15	16A	16B	S
CHANGE TO		1+6	2+5	2+6	*/	9	2+6	*/	*/	2+6			4-	-8			1+ 1+ 2+ 2+	+6 +5	н
CERMAK ROAD (22ND STREET) E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	G	G	G	G	G	Υ	R	A	R	R	R	R
CERNAK ROAD (22ND STREET) E/B END MAST ARM AND FAR LEFT SIGNALS	R ⊸ G	R ♣ Y	R → G	R ■Y	R	R	R	G -≪ -G	G G	G ⊸≪-Y	6	G	Y	R	R	R	R	R	R
CERMAK ROAD (22ND STREET) W/E FAR RIGHT MAST ARM SIGNAL	R	R	R	R	G	G	G	R	R	R	G	G	Υ	R	Ħ	R	R	R	R
CERNAK ROAD (22ND STREET) W/E END MAST ARM AND FAR LEFT SIGNALS	113	R → G	R ⊸ Y	R ◀ Y	G ⊸=+G	G ⊶≪≉ G	G - ¥	R	R	R	G	G	Y	R	R	R	R	R	R
50TH AVENUE N/E ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	6	G	Υ	R	R
SOTH AVENUE SZE NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
SOTH AVENUE S/E END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R.	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING SOTH AVENUE ON NORTH SIDE OF CERMAN ROAD	DW	DW	DW	DW	**	**FL	DW	DW	DW	D₩	*W	**FL D₩	D₩	DW	ÐW	DW	Đ₩	DW	D
PEDESTRIAN SIGNALS CROSSING SOTH AVENUE ON SOUTH SIDE OF CERMAK ROAD	D₩	DW	DW	DW	DW	D₩	DW	**	**FL	D₩	*W	**FL DW	DW	Ð₩	DM	DW	DW	D₩	А
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF SOTH AVENUE	Ð₩	DW	DW	D₩	DW	DW	DW	DW	DW	D₩	DW	DW	D₩	DW	*1	DW	DW	D₩	R
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF SOTH AVENUE	DW	DW	DW	D₩	DW	DW	D₩	DW	DW	DW	DW	DW	DW	DW	*#	**FL D₩	DW	DW	ĸ

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIBIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

W = "WALK"

FL DW = FLASHING "DON'T WALK"

DW = "DON'T WALK"

PHASE 2+6 SHALL BE PLACED ON RECALL.

RAILROAD PREEMPTION SEQUENCE OF OPERATION

•										NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8	1	1	1	4					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1 A	18	1C	1D	1E	1F	1 G	1H	1 J	2	3	4	5	CLEAR TO
CHANGE TO RAILFOAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	1 J	2	3	4	5	- 47	NORMAL SEQUENCE
CERMAK ROAD (22ND STREET) E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	Y	R	γ	ก	R	R	R	R	R	G	Δ
CERMAK ROAD (22ND STREET) E/B END MAST ARM AND FAR LEFT SIGNALS	R ⊸ Y	R	R	Υ	R	Υ	R	R	R	R	R	R	G	Δ
CERMAK ROAD (22ND STREET) W/8 FAR RIGHT WAST ARM SIGNAL	R	Y	R	R	R	γ	R	Ŕ	R	R	R	R	G	Δ
CERMAK ROAD (22ND STREET) W/B END MAST ARM AND FAR LEFT SIGNALS	R → Y	Υ	R	R	R	Y	R	R	R	Ř	R	R	G	Δ
50TH AVENUE N/B ALL SIGNALS	R	R	R	R	R	R	R	Υ	R	R	R	R	R	Δ
50TH AVENUE S/B NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	G	G	G	Υ	R	R	Δ
SOTH AVENUE S/B END MASY ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	G	G	G -= G	Y	R	R	Δ
PEDESTRIAN SIGNALS CROSSING SOTH AVENUE ON NORTH SIDE OF CERMAK ROAD	DW	FL	D₩	DW	D₩	FL DW	DW	DW	D₩	DW	DW	DW	DW	Δ
PEDESTRIAN SIGNALS CROSSING 50TH AVENUE ON SOUTH SIDE OF CERMAK ROAD	D₩	DW	D₩	FL D₩	DW	FL DW	DW	D₩	DW	D₩	DW	DW	DW	Δ
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF SOTH AYENUE	DW	DW	D₩	DW	DW	DW	DW	FL DW	D₩	DW	DW	D₩	DW	Δ
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF SOTH AVENUE	DW	DW	DW	DW	DW	DW	ВW	FL DW	Ď₩	DW	DW	DW	D₩	Δ
													LIOI I	i

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

ILLINOIS DEPARTMENT OF TRANSPORTATION SEQUENCE OF OPERATION AND RAILROAD PREEMPTION SEQUENCE OF OPERATION CERMAK ROAD (22ND STREET) AND SOTH AVENUE CHRISTOPHER B. BURKE ENGINEERING LTD. 9575 West Higgins Road, Suite 690 Rosemant, Illnois 60018 (447) 823-0590 SCALE N.T.S DRAWN BY FN CHECKED BY GMZ DATE 2-22-99

EXISTING SEQUENCES - INCLUDED FOR REFERENCE ONLY

PREPARED BY CEMCON, Ltd.
Conculting Engineers, Land Surveyors & Planners
2280 White Engineers, Lend Surveyors & Planners
2280 White Engineers, 1000
Aurora, 111 nois sc6504-967.
Ph; 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com

TS# 12780 CICERO

COUNTY TOTAL SHEET SHEETS NO.

COOK TO STA.

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

SECTION

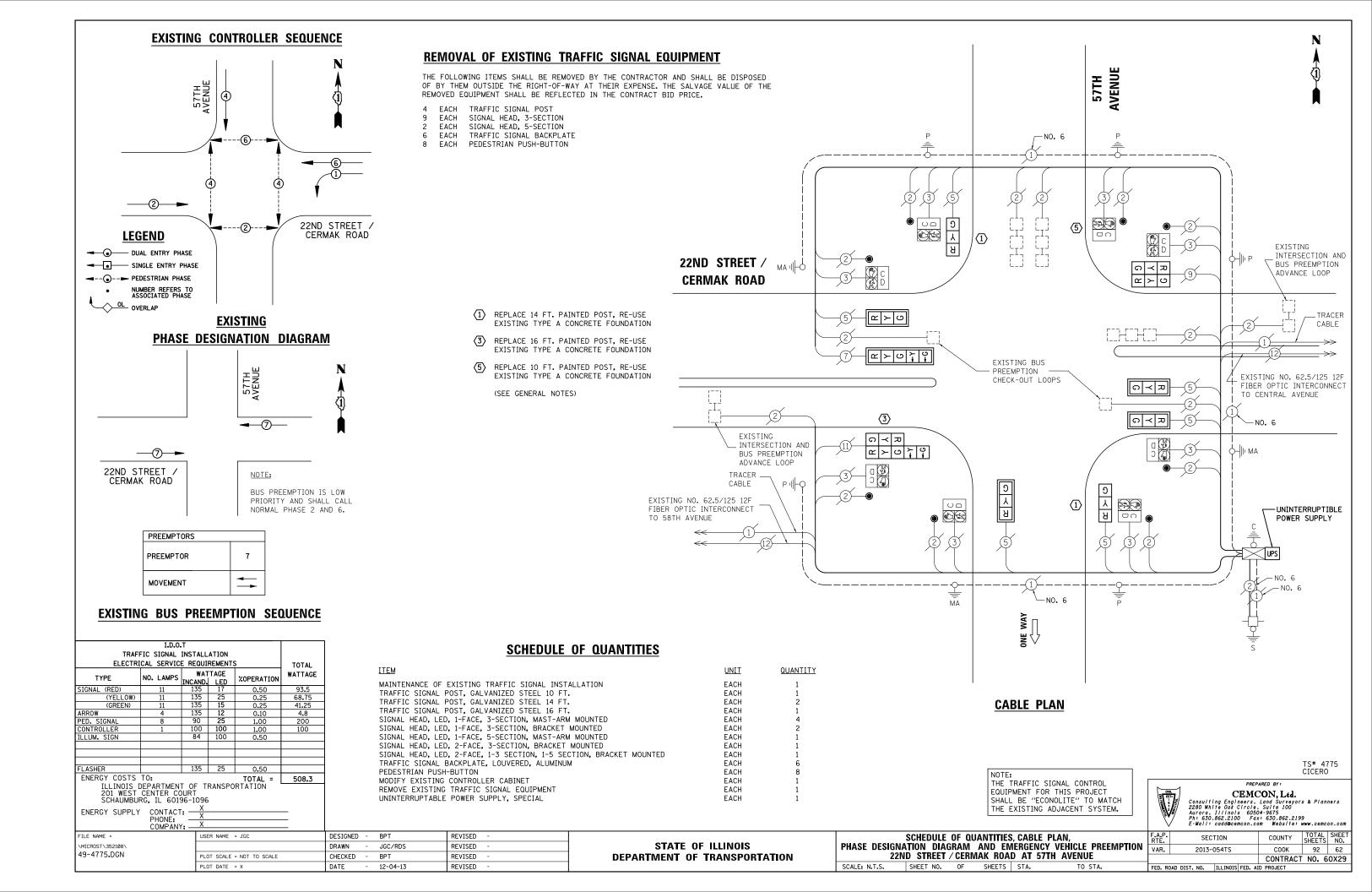
SEQUENCE OF OPERATION, RAILROAD PREEMPTION SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION USER NAME = JGC DESIGNED - BPT REVISED STATE OF ILLINOIS DRAWN JGC/RDS REVISED

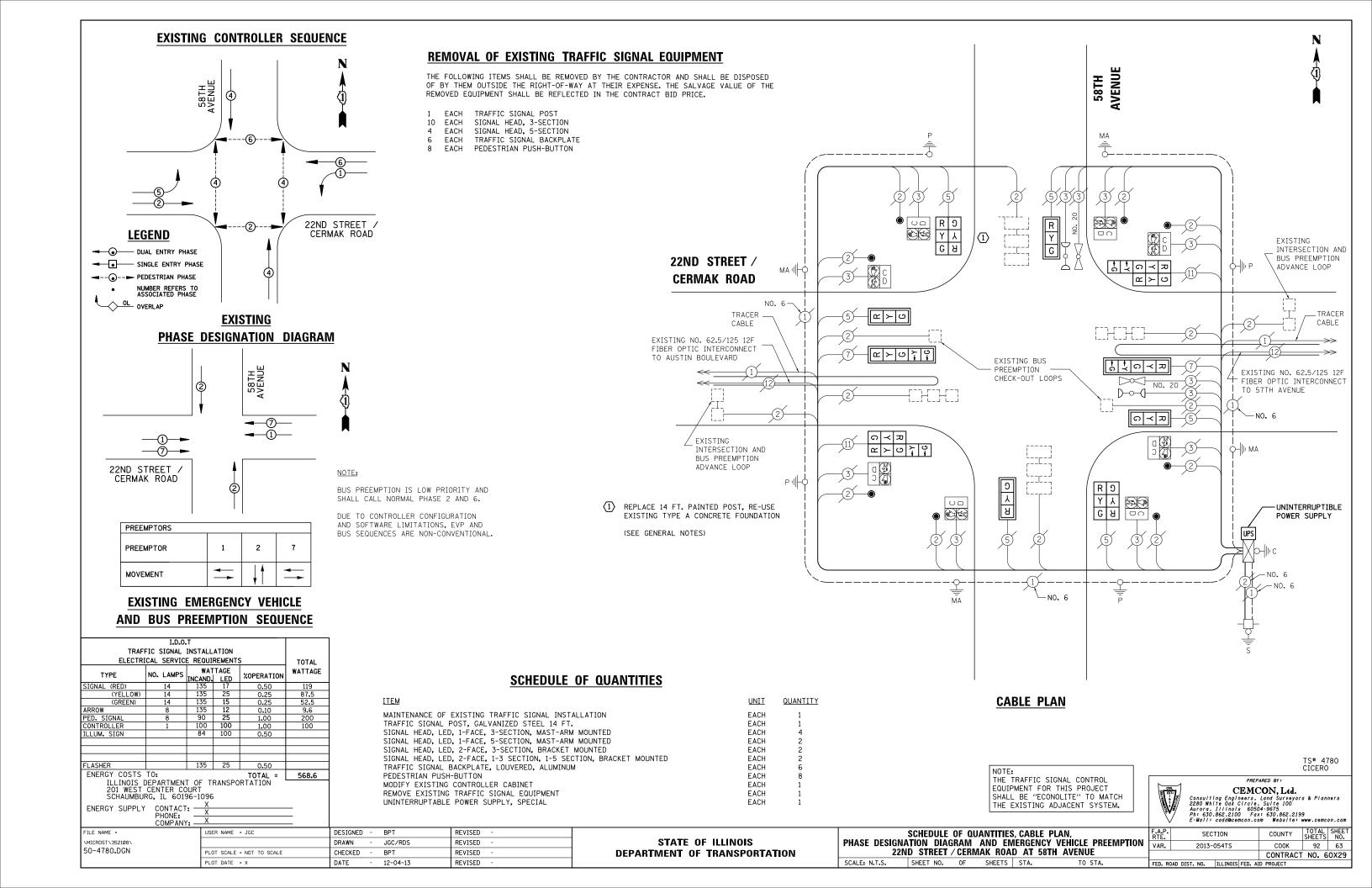
22ND STREET / CERMAK ROAD AT 50TH AVENUE CHECKED BPT REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: N.T.S. SHEET NO. OF SHEETS STA. DATE REVISED PLOT DATE = X - 12-04-13

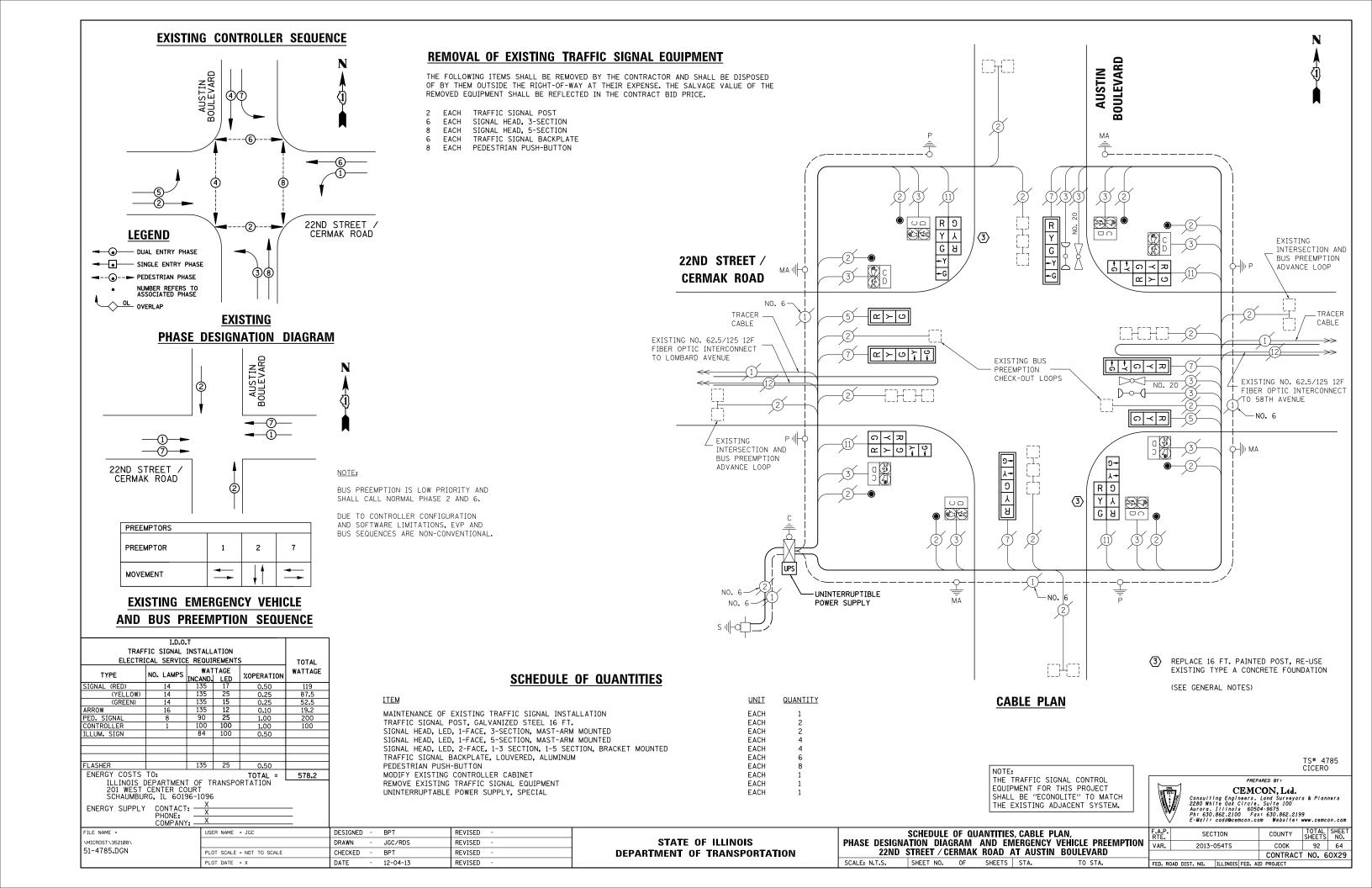
PREEMPTOR

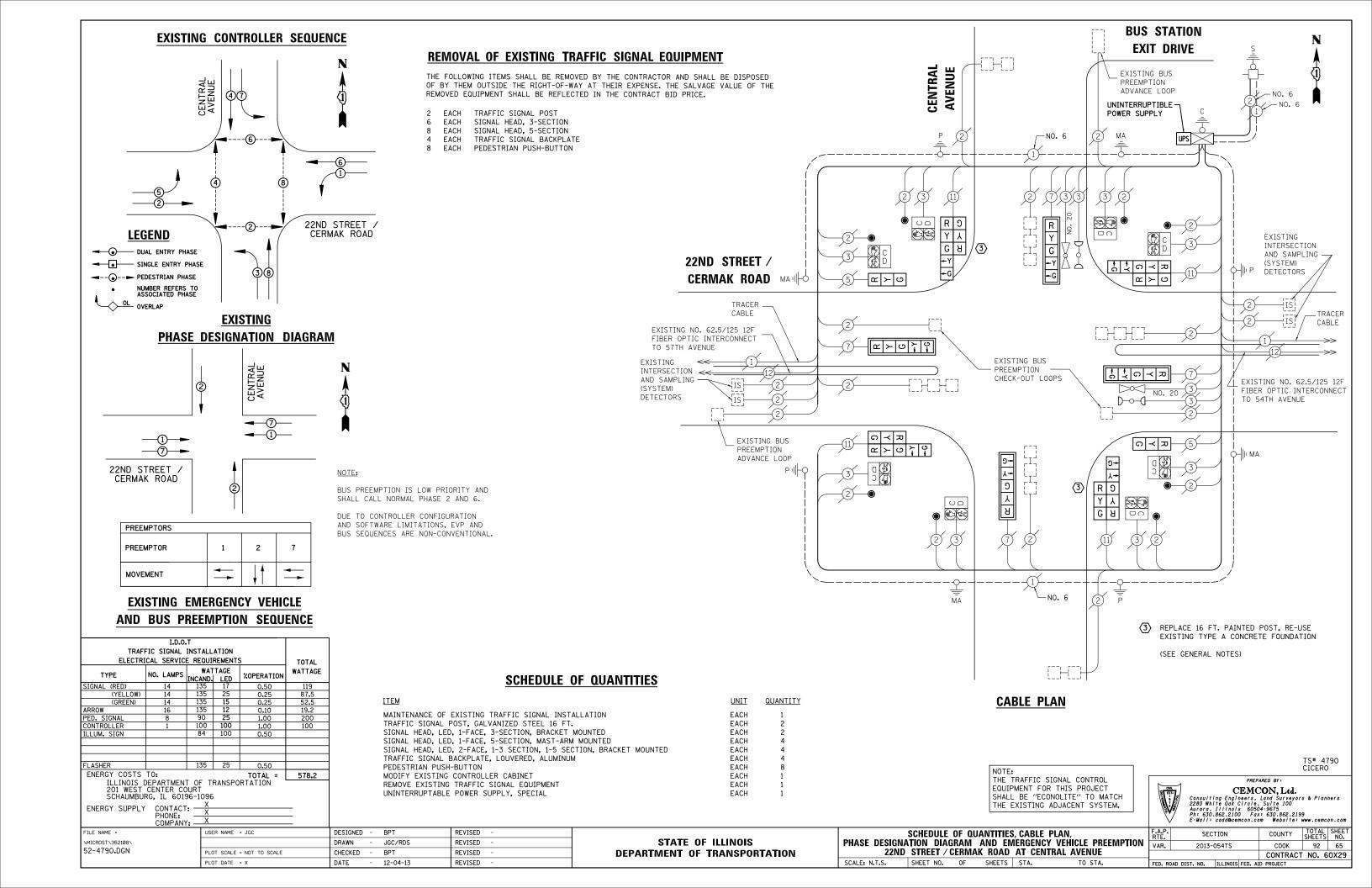
SECTION COUNTY COOK 92 61 VAR. 2013-054TS CONTRACT NO. 60X29 FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

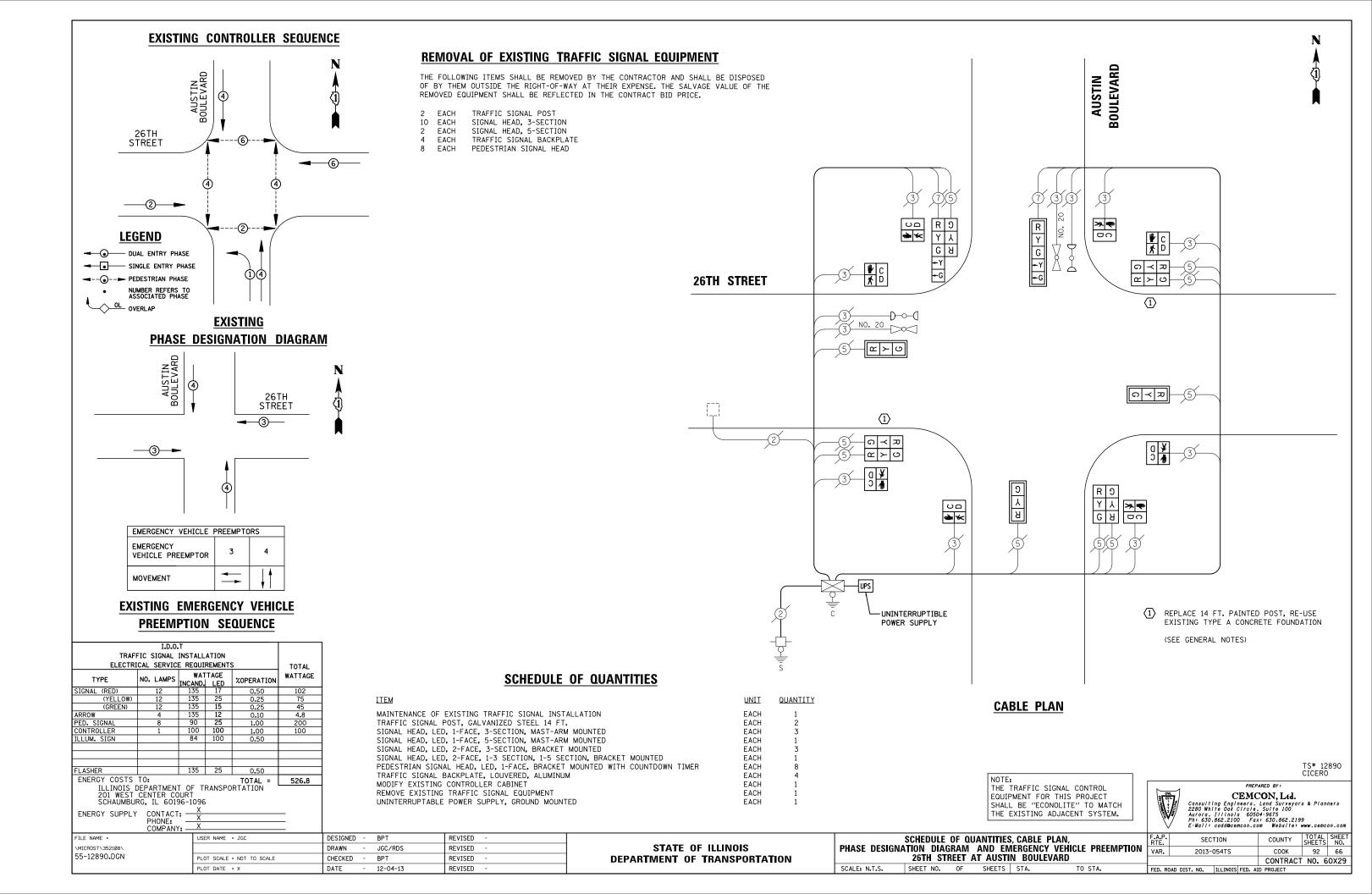
FILE NAME = \MICROST\3521Ø8\ 48-12780_2.DGN

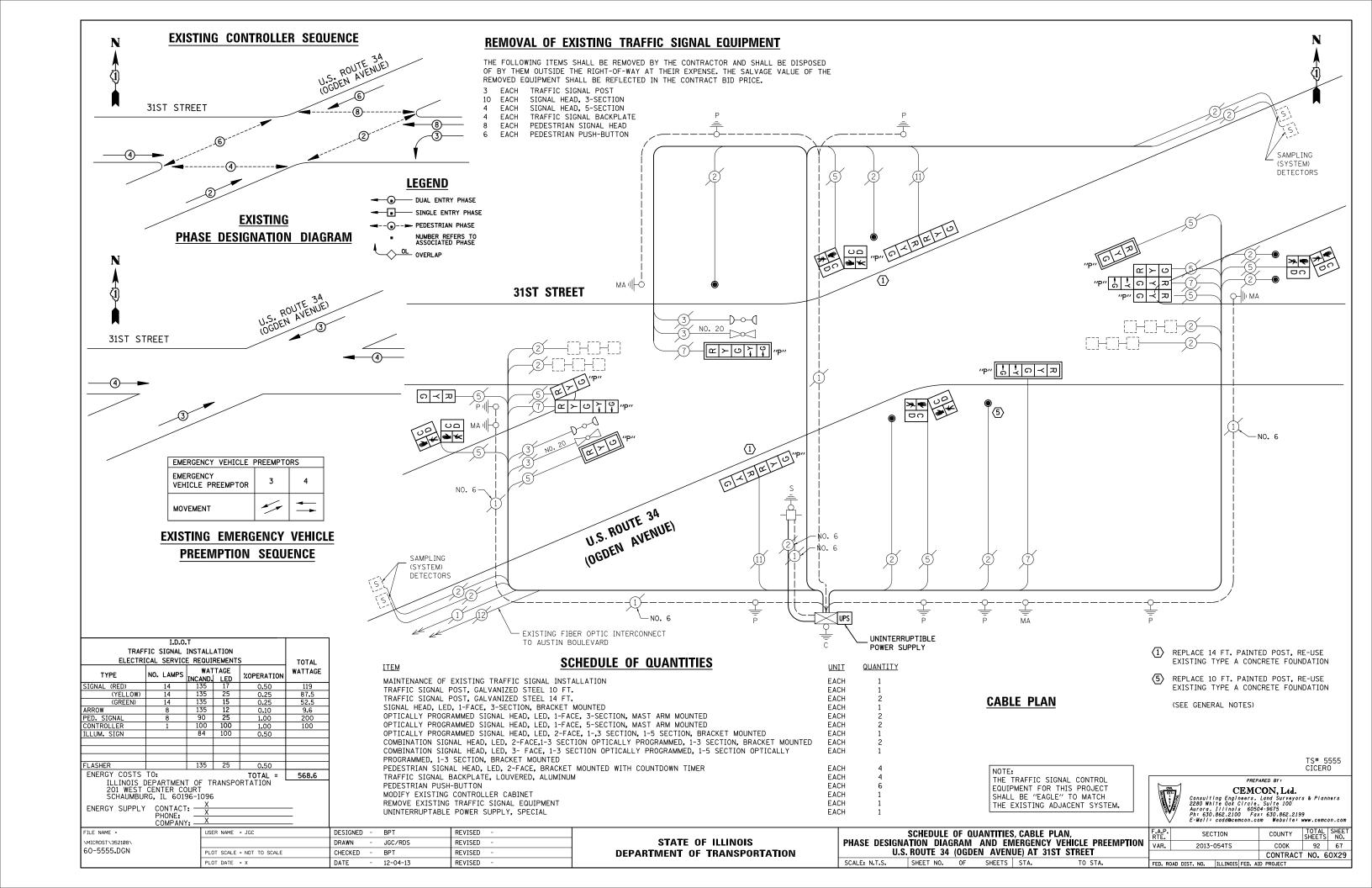


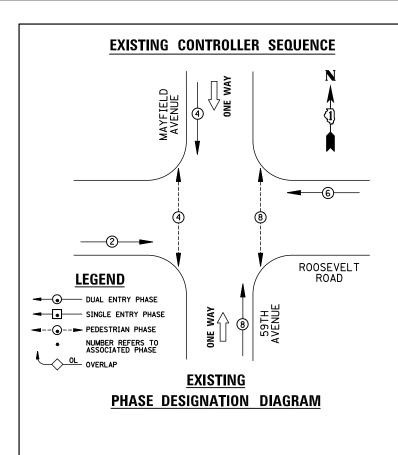


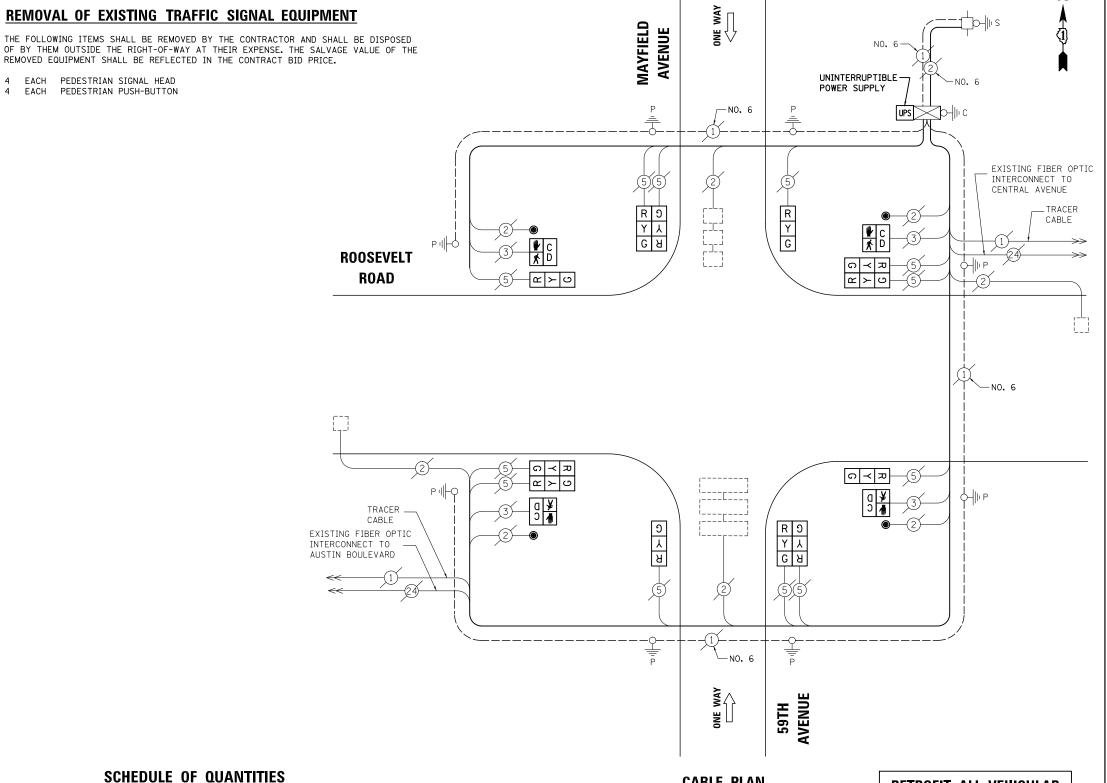


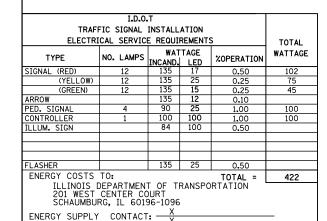












USER NAME = JGC

PLOT DATE = X

PLOT SCALE = NOT TO SCALE

DESIGNED - BPT

JGC/RDS

12-04-13

DRAWN

DATE

CHECKED

REVISED

REVISED

REVISED

REVISED

PHONE:

FILE NAME =

MICROST\3521Ø8\

61-5745.DGN

SCHEDULE OF QUANTITIES

4 EACH PEDESTRIAN SIGNAL HEAD

4 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	4
PEDESTRIAN PUSH-BUTTON	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4

CABLE PLAN

NOTE: THE TRAFFIC SIGNAL CONTROL

EQUIPMENT FOR THIS PROJECT

SHALL BE "ECONOLITE" TO MATCH

THE EXISTING ADJACENT SYSTEM.

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

TS# 5745 CICERO PREPARED BY

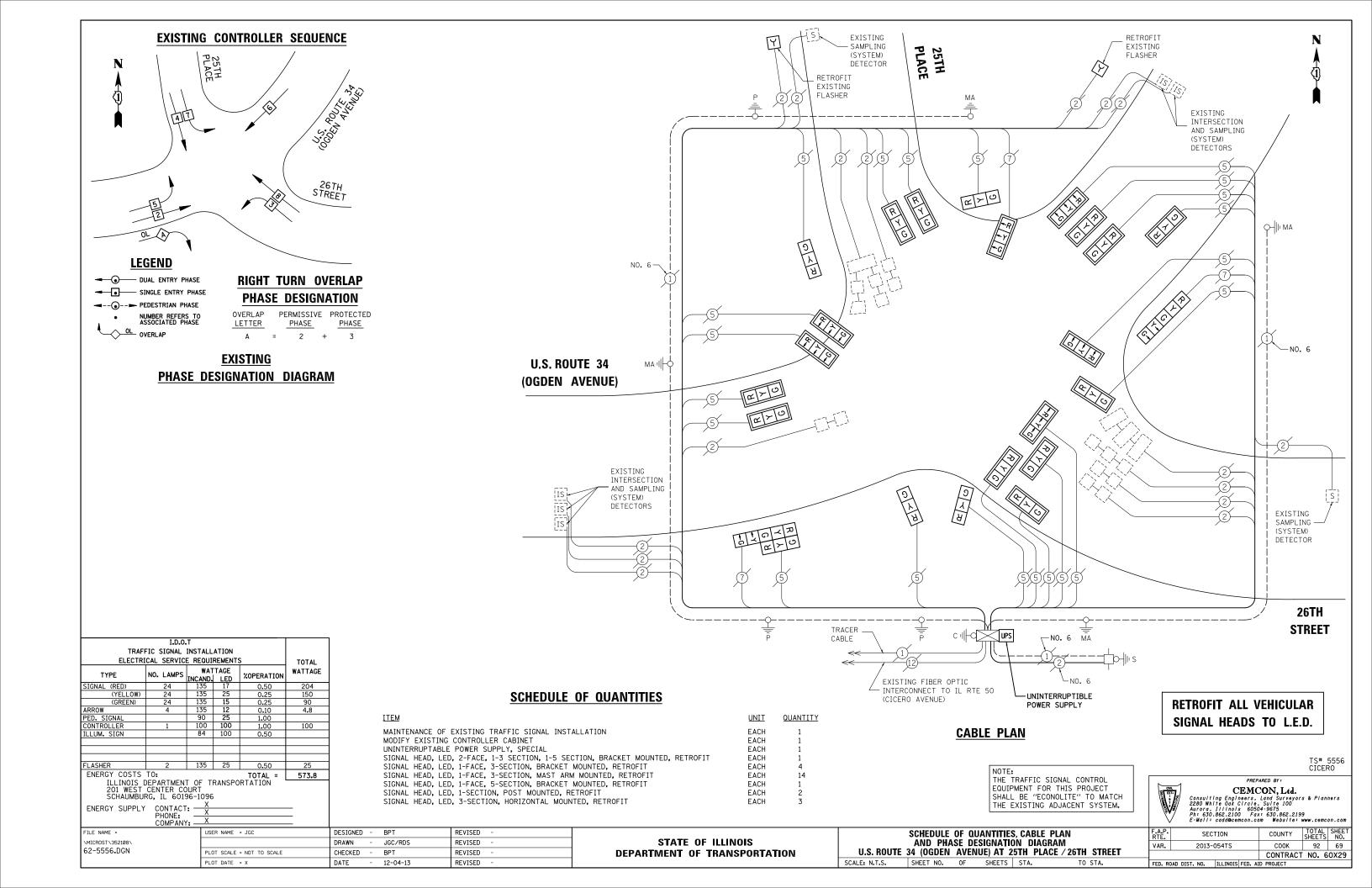
CEMCON, Ltd. Consulting Engineers. Land Surveyors & Planners 2280 White Oak Circle. Suite 100 Aurors. Illinois 6504-9675 Ph: 650.862.2100 Fax: 630.862.2199 E-Wall: caddbacemoon.com Website: www.cemcon.cc

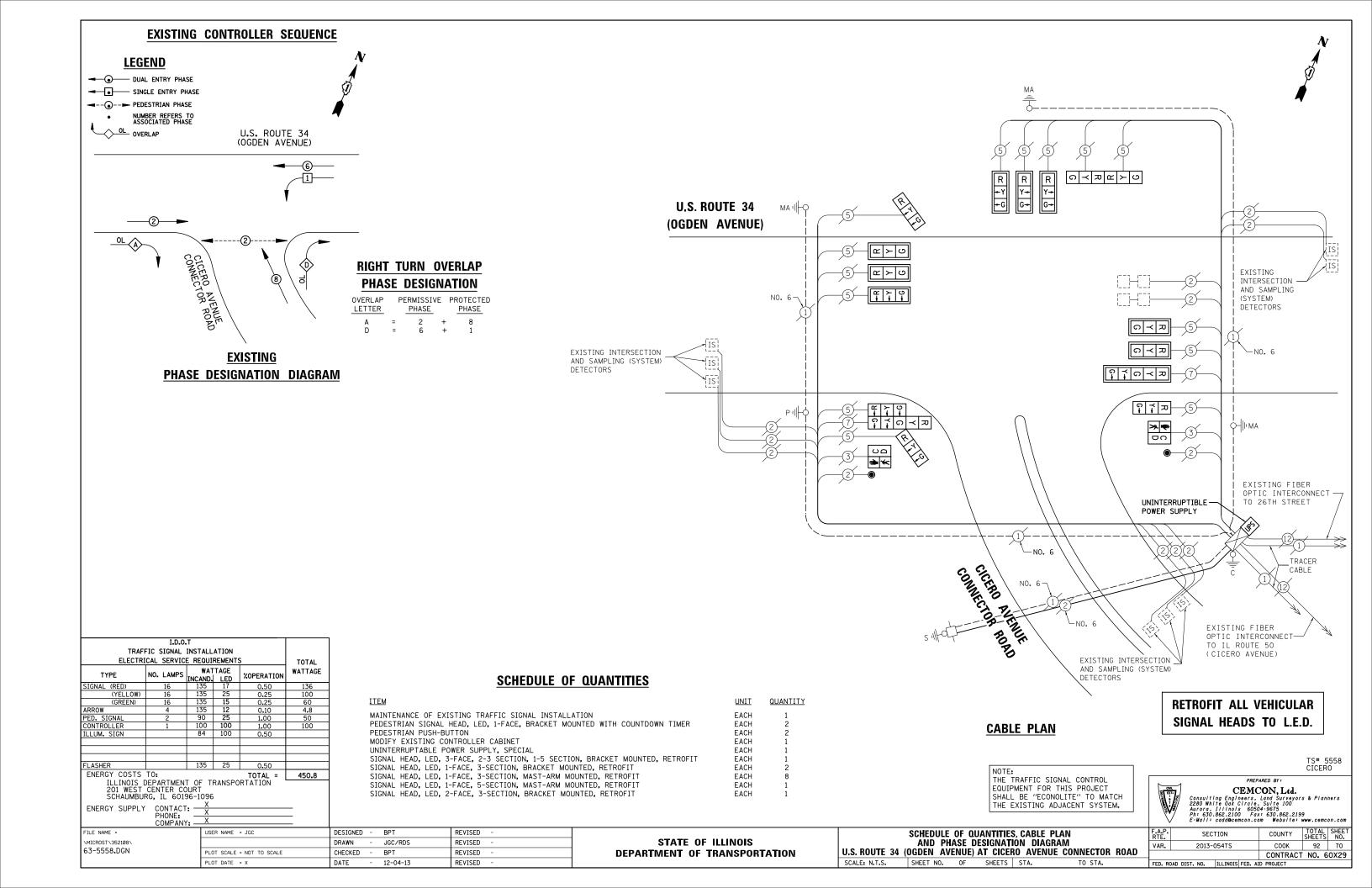
SECTION COUNTY COOK VAR. 2013-054TS 92 68 CONTRACT NO. 60X29

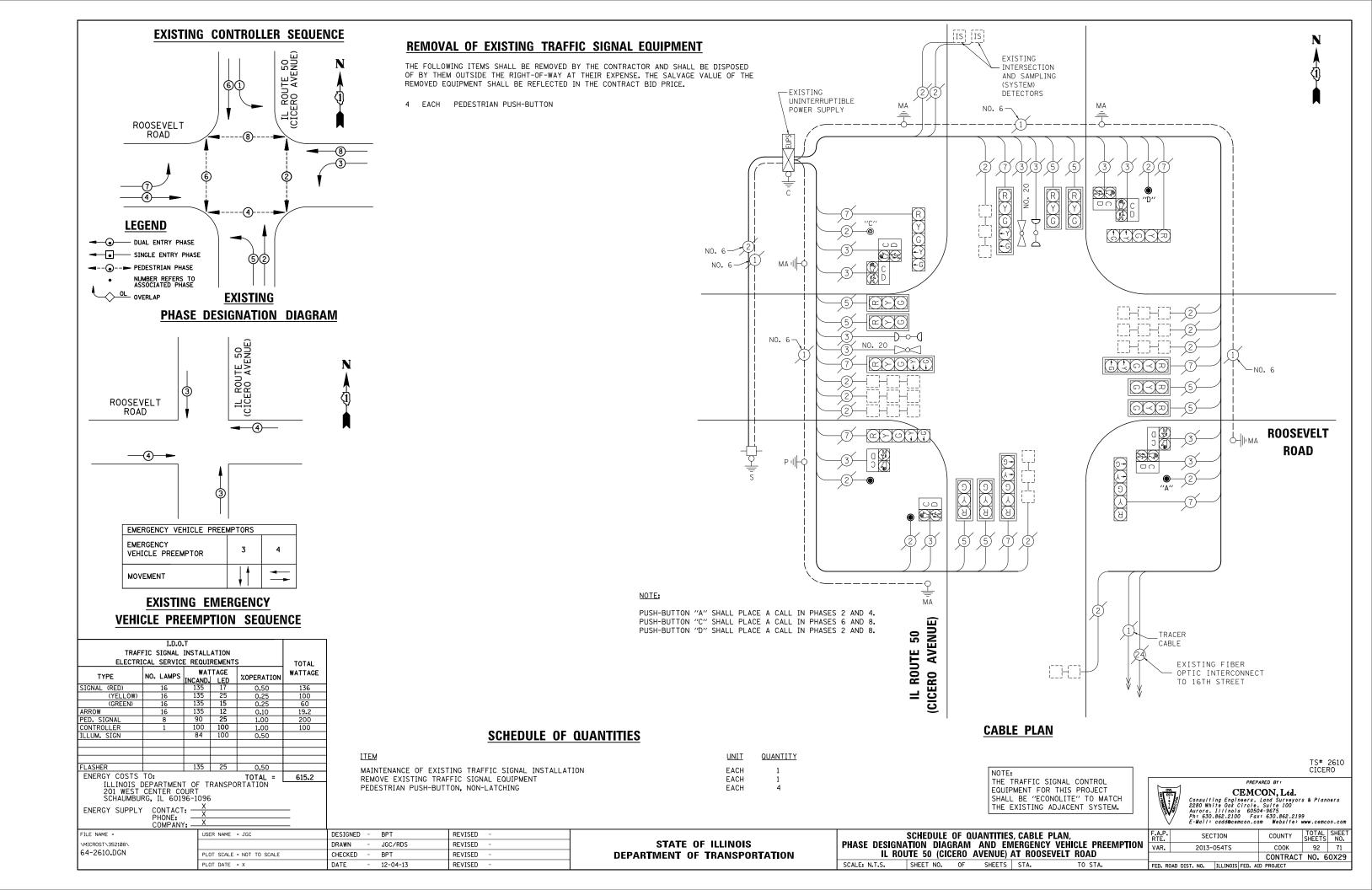
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

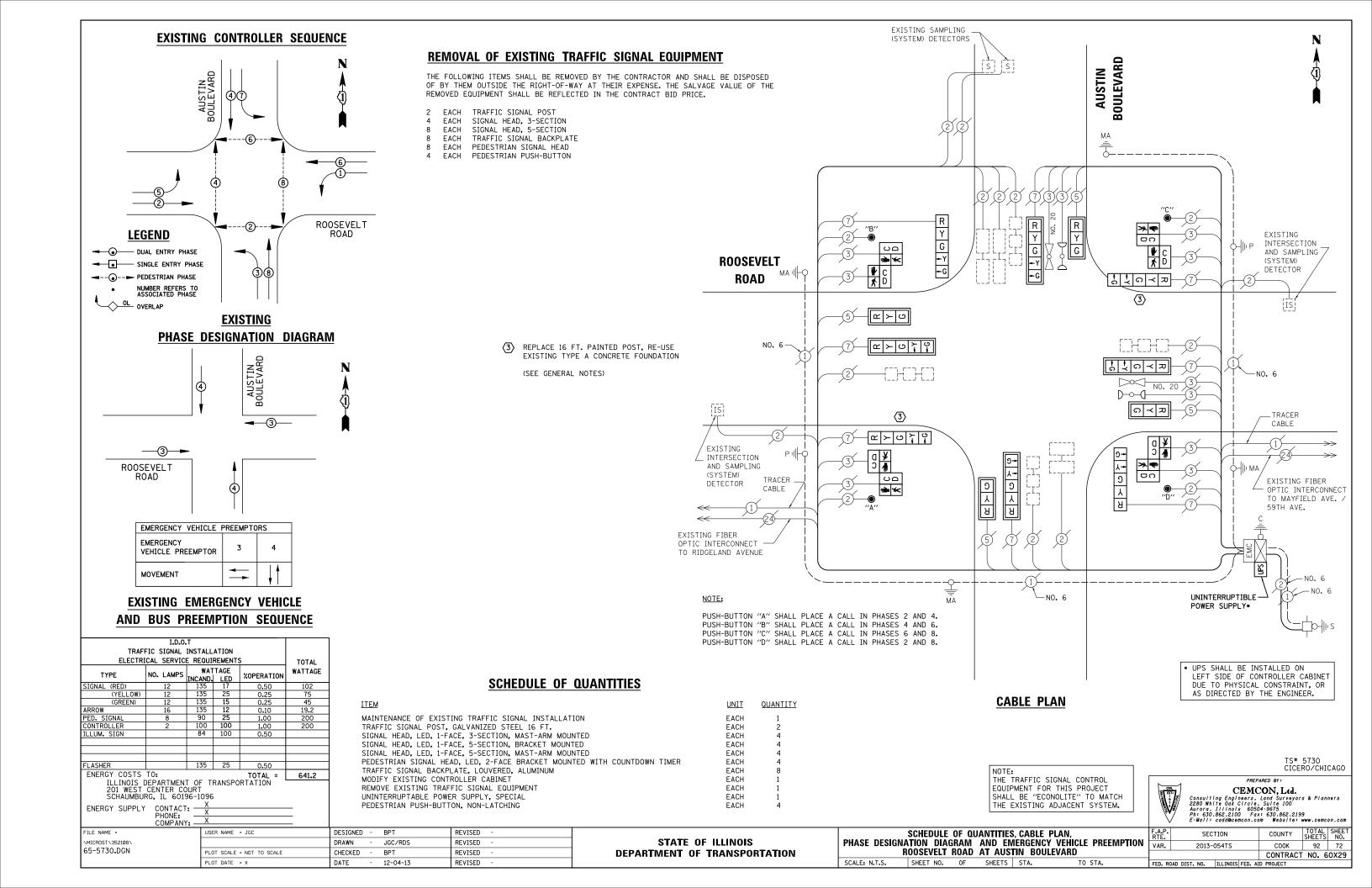
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM ROOSEVELT ROAD AT MAYFIELD AVENUE / 59TH AVENUE

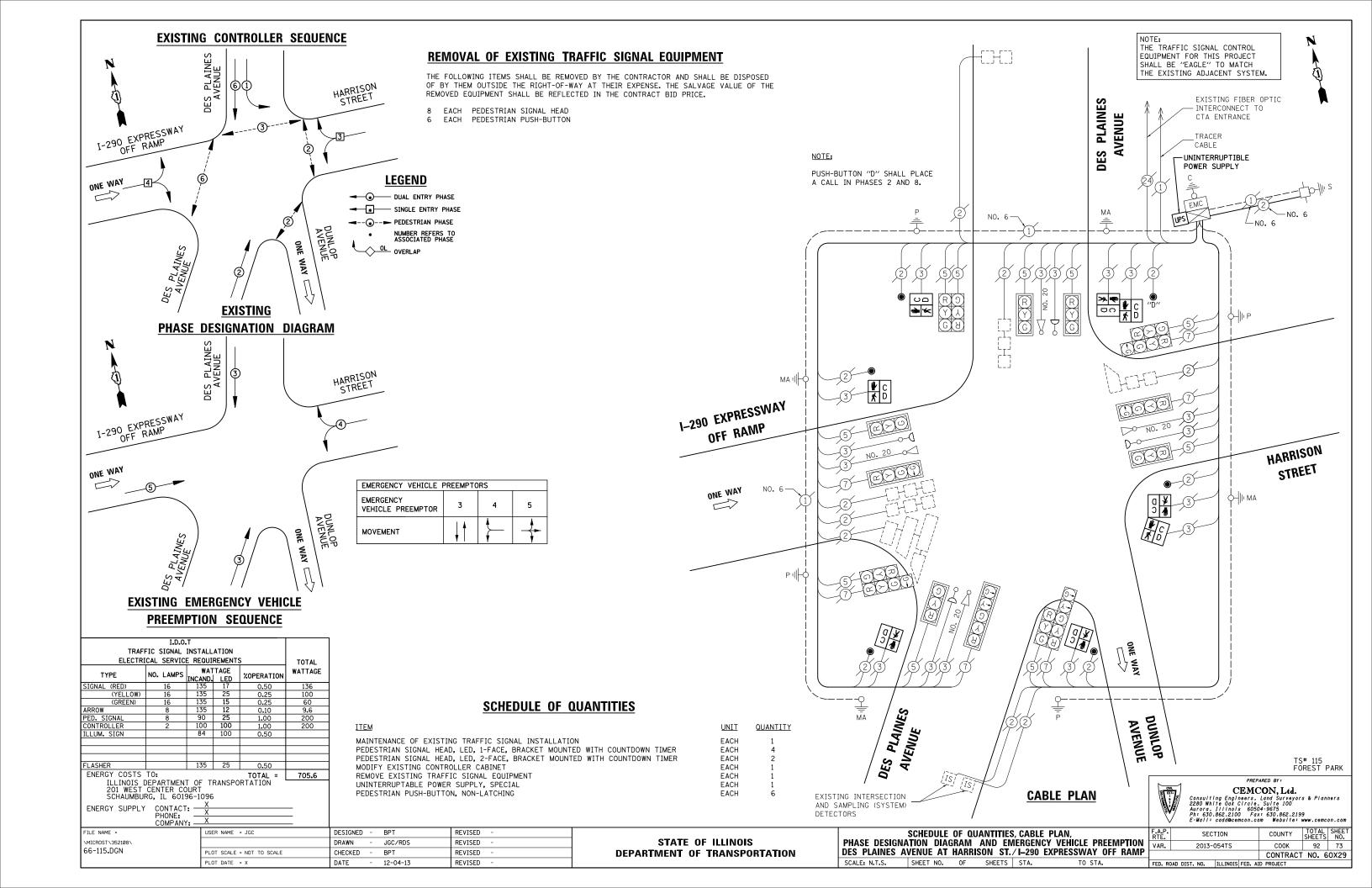
SHEET NO. OF SHEETS STA.

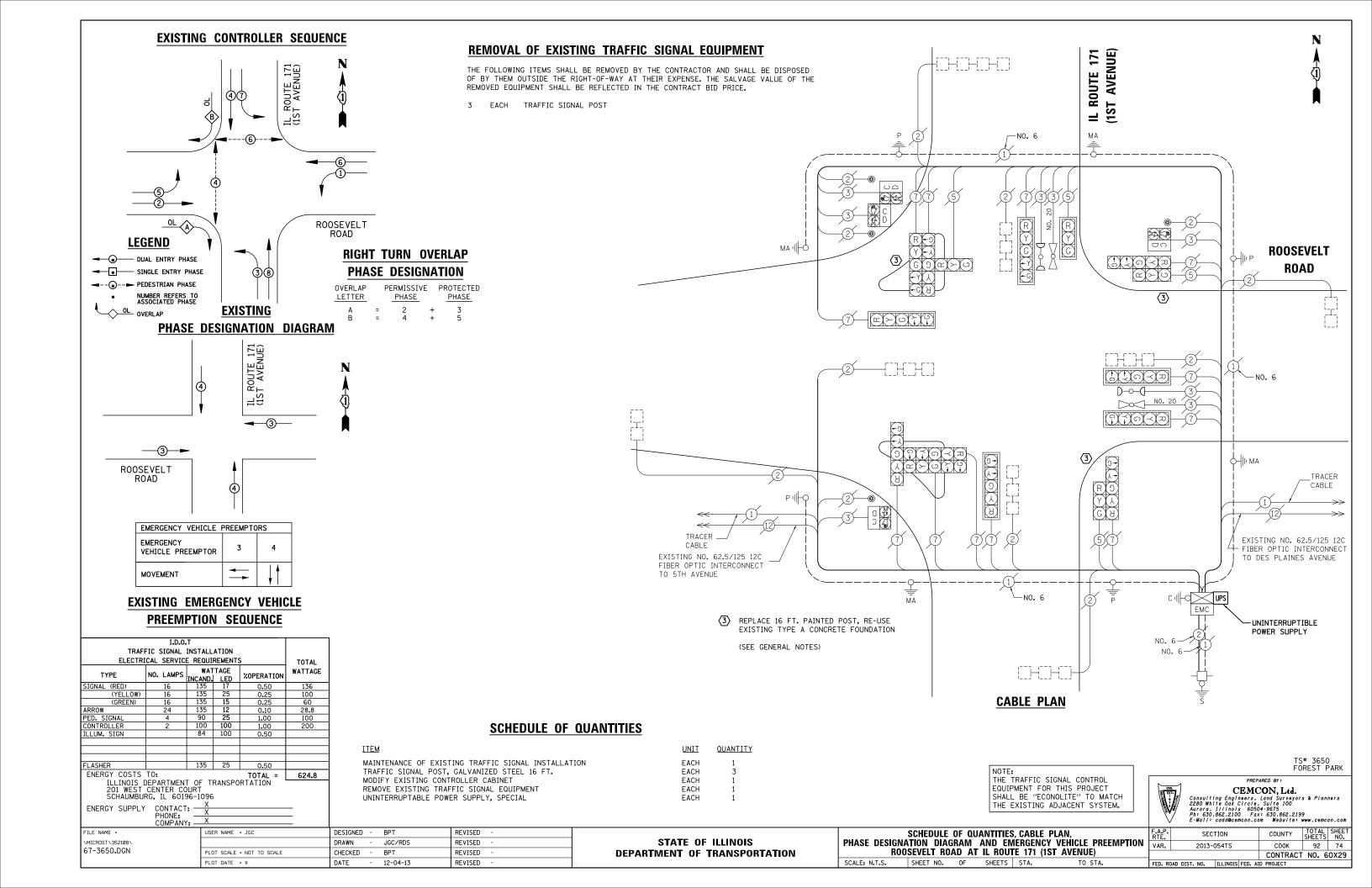


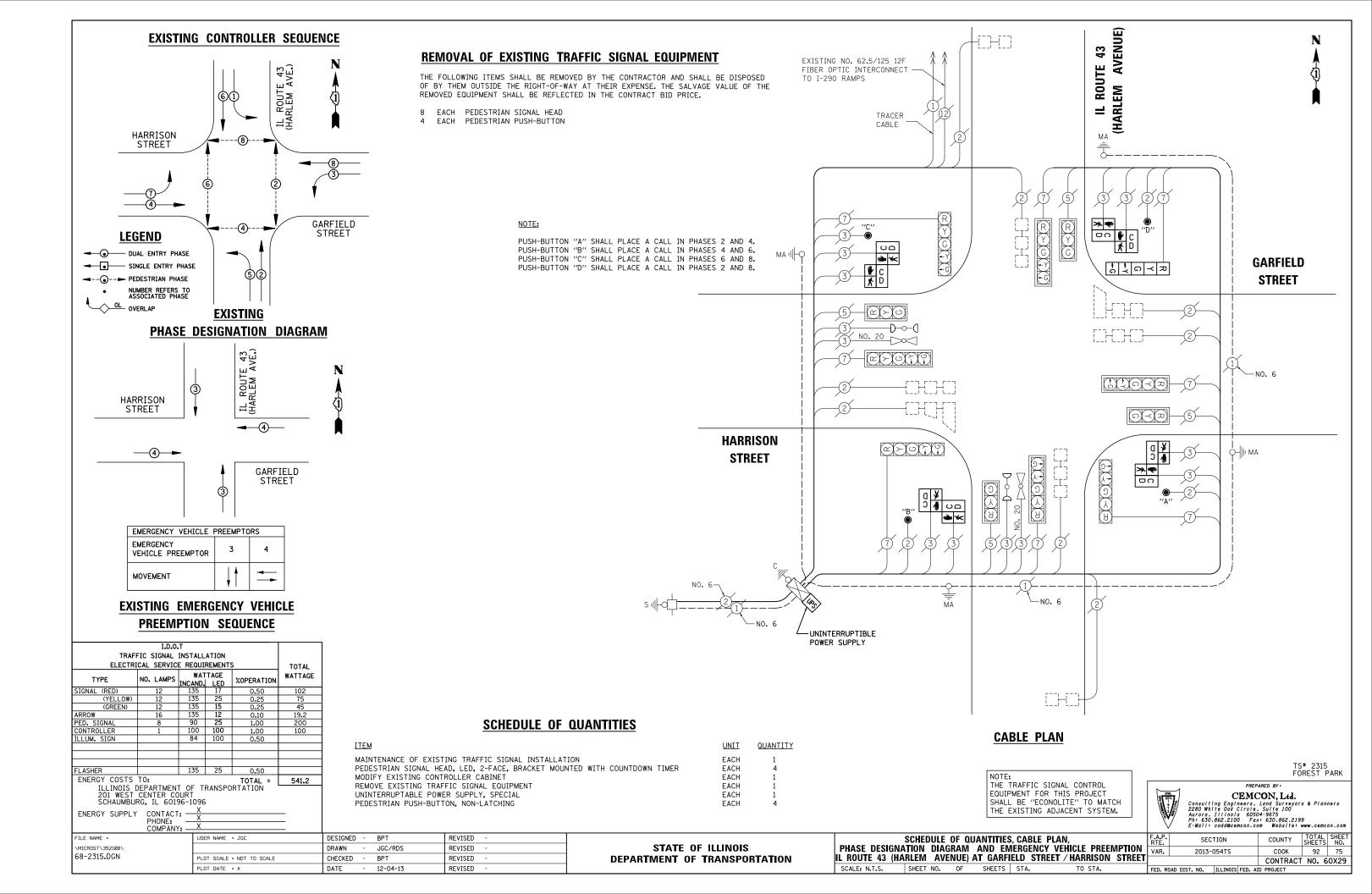


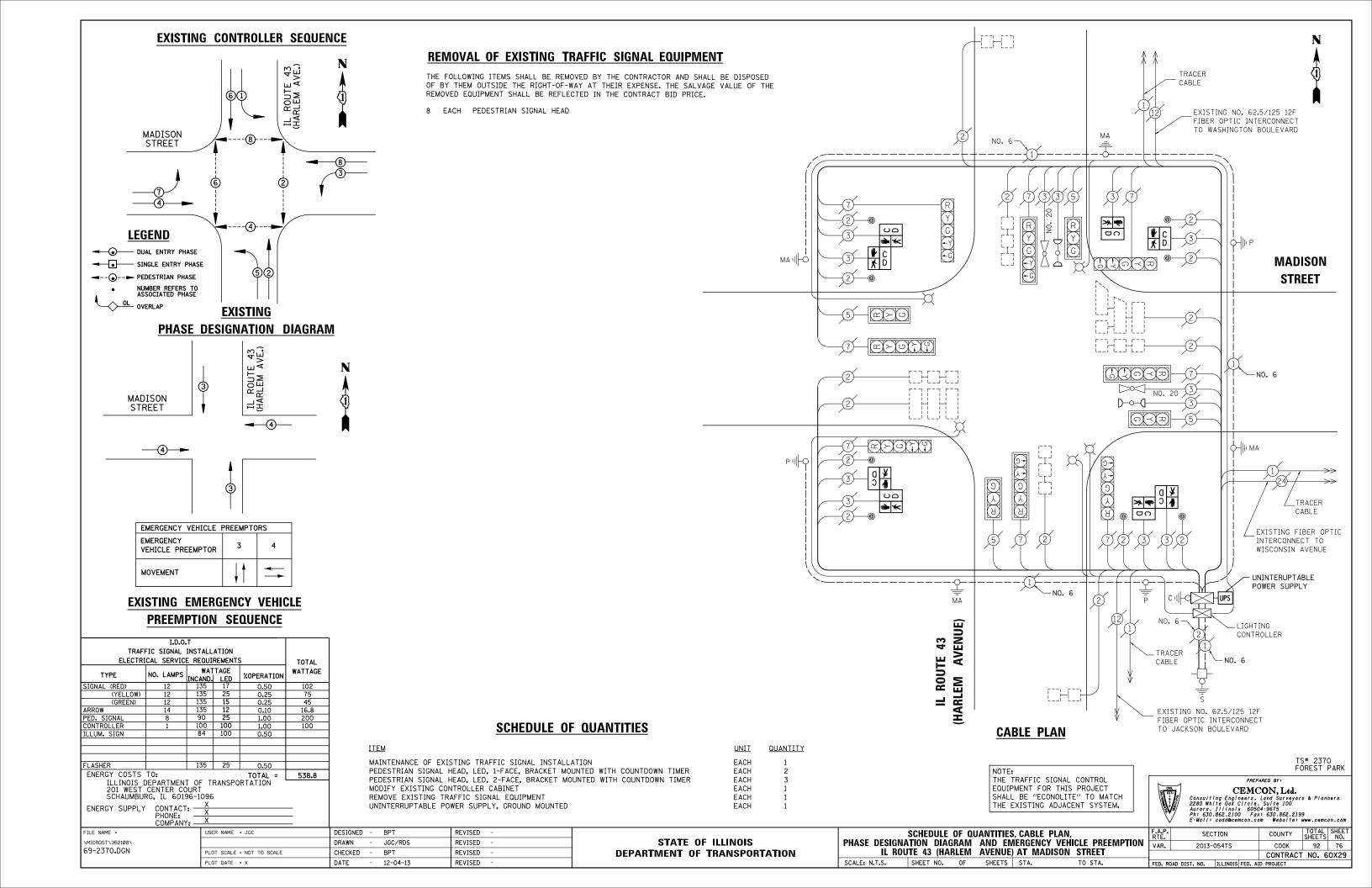




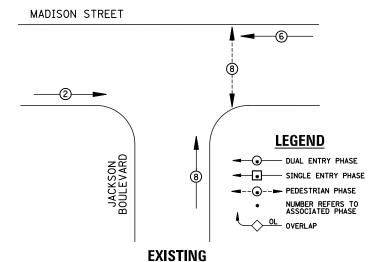




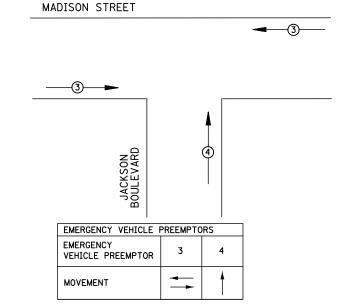




EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

TRAFI									
ELECTRI	TOTAL								
TYPE	NO. LAMPS	INCAND.	TAGE LED	%OPERATION	WATTAGE				
SIGNAL (RED)	9	135	17	0.50	76 . 5				
(YELLOW)	9	135	25	0.25	56.25				
(GREEN)	9	135	15	0.25	33.75				
ARROW		135	12	0.10					
PED. SIGNAL	2	90	25	1.00	50				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		84	100	0.50					
FLASHER		135	25	0.50					
ENERGY COSTS	T0:			TOTAL =	316.5				
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096									
ENERGY SUPPLY	CONTACT PHONE: COMPANY	X			_ _ _				

USER NAME = JGC

PLOT DATE = X

FILE NAME =

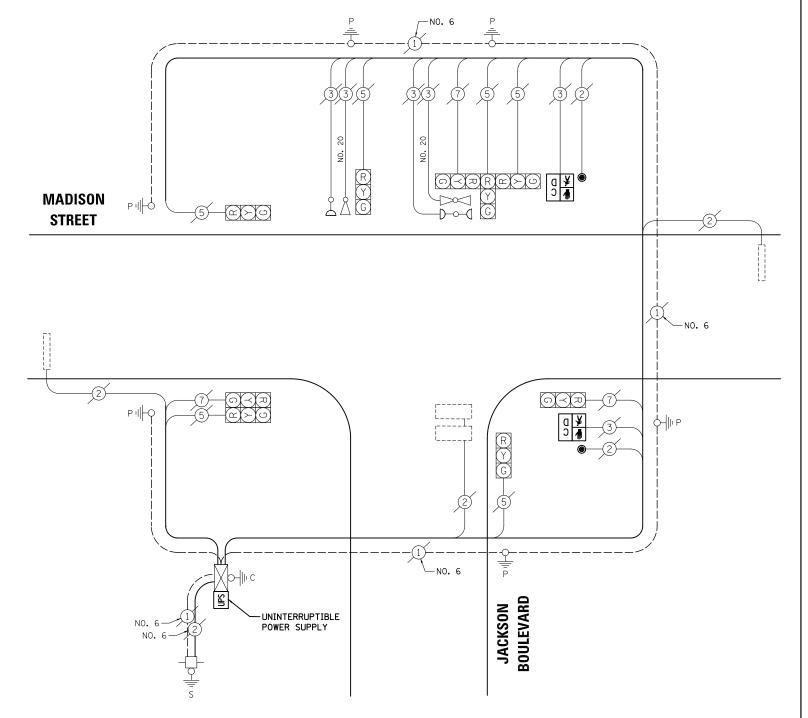
\MICROST\3521Ø8\

70-5460.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.

- EACH PEDESTRIAN SIGNAL HEAD
- EACH PEDESTRIAN PUSH-BUTTON



SCHEDULE OF QUANTITIES

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTABLE POWER SUPPLY, SPECIAL

REVISED

REVISED

REVISED

REVISED

DESIGNED - BPT

JGC/RDS

12-04-13

DRAWN

DATE

CHECKED

CABLE PLAN

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

TS# 5460 FOREST PARK PREPARED BY CEMCON, Ltd.

Consulting Engineers. Land Surveyors & Planners 2280 White Oak Circle. Suite 100 Aurora. Illinois 60504-9675 Phi 630.862.2100 Fox: 630.862.2199 E-Wall: cod@cemoon.com Website: www.cemcon.com

RTE.	SECTION						COUNTY	SHEETS	NO.
VAR	R. 2013-054TS						соок	92	77
							CONTRACT	NO. 6	0X29
FED.	ROAD	DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		

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

<u>UNIT</u>

EACH

EACH

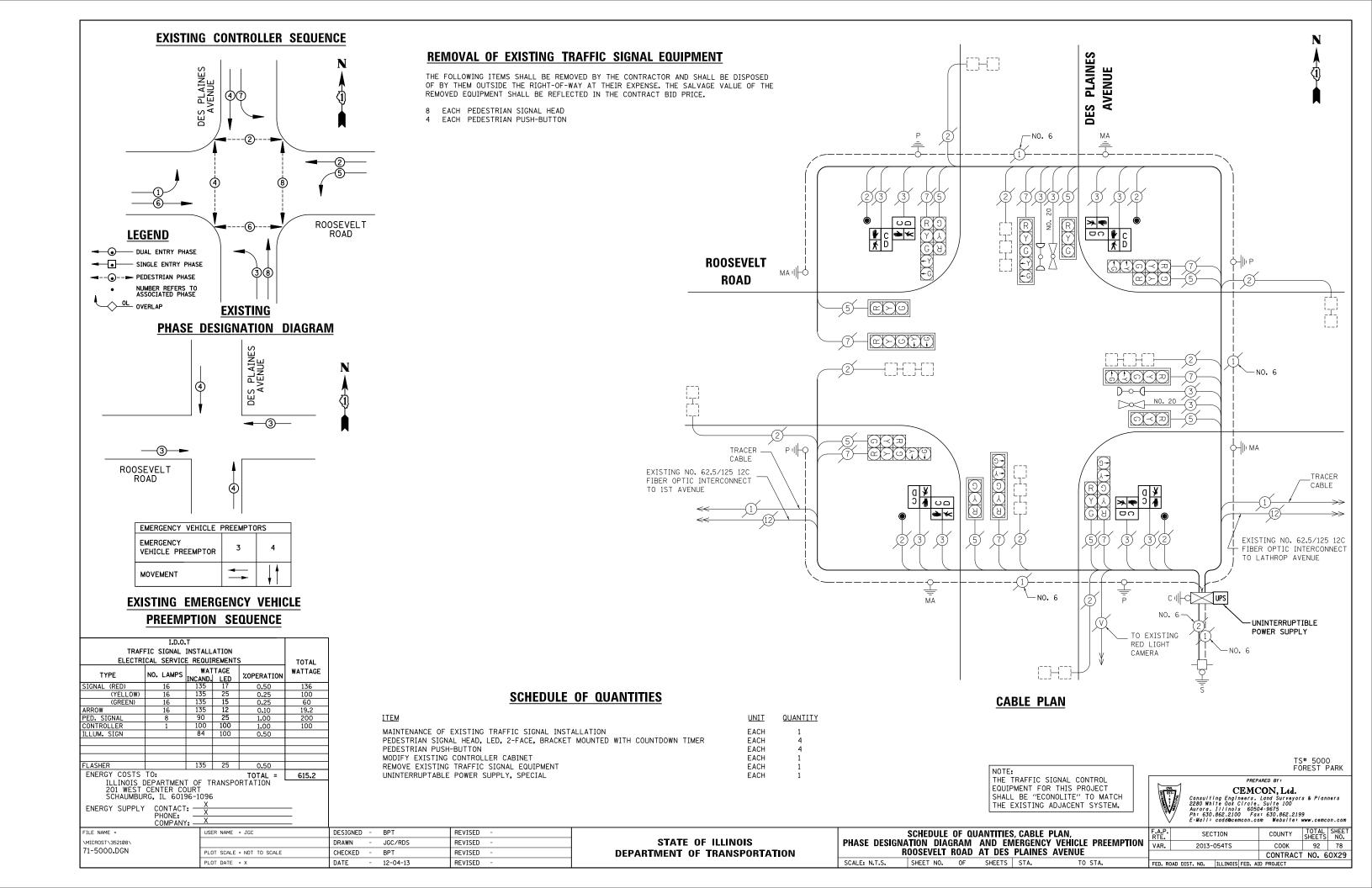
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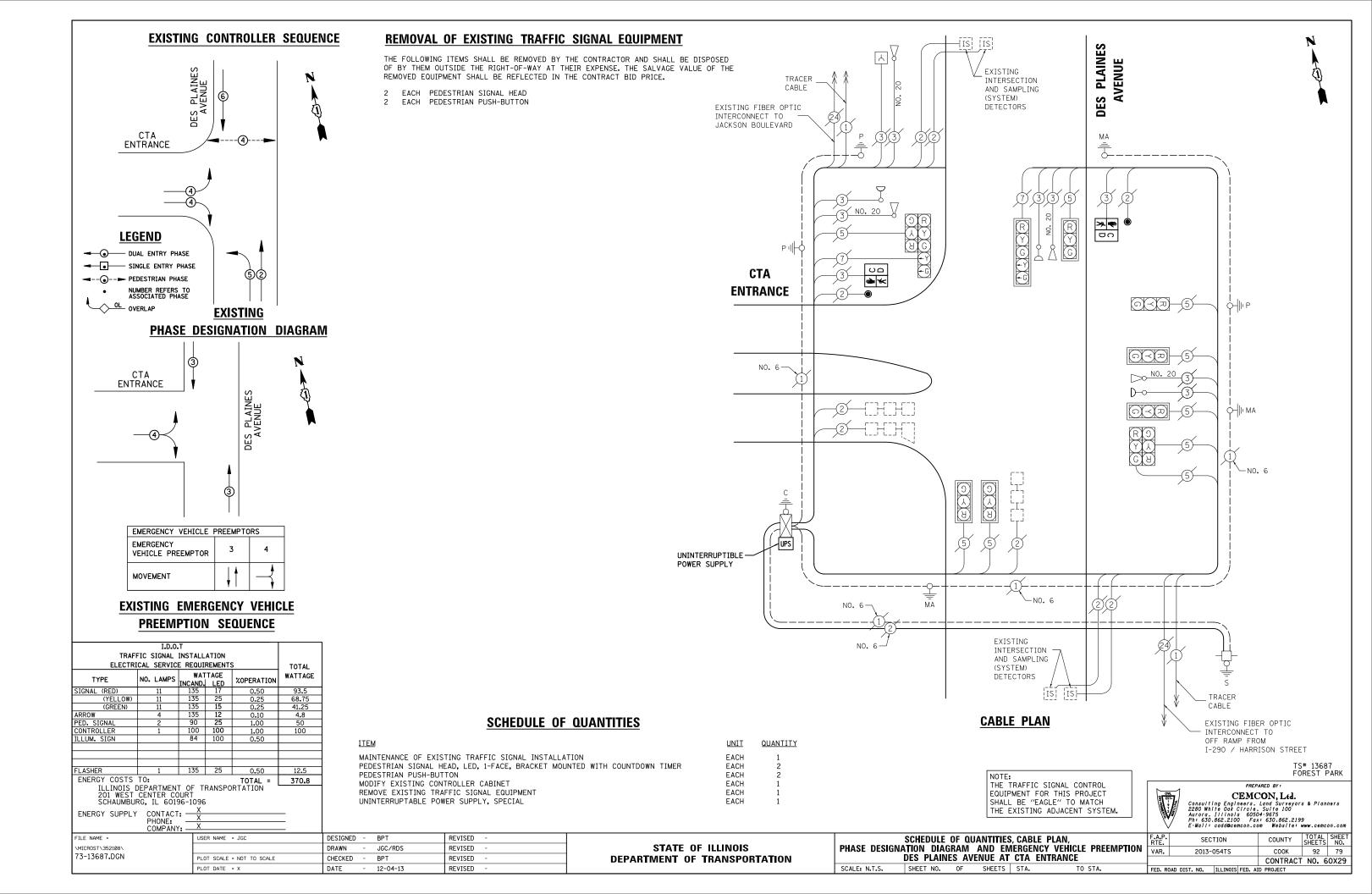
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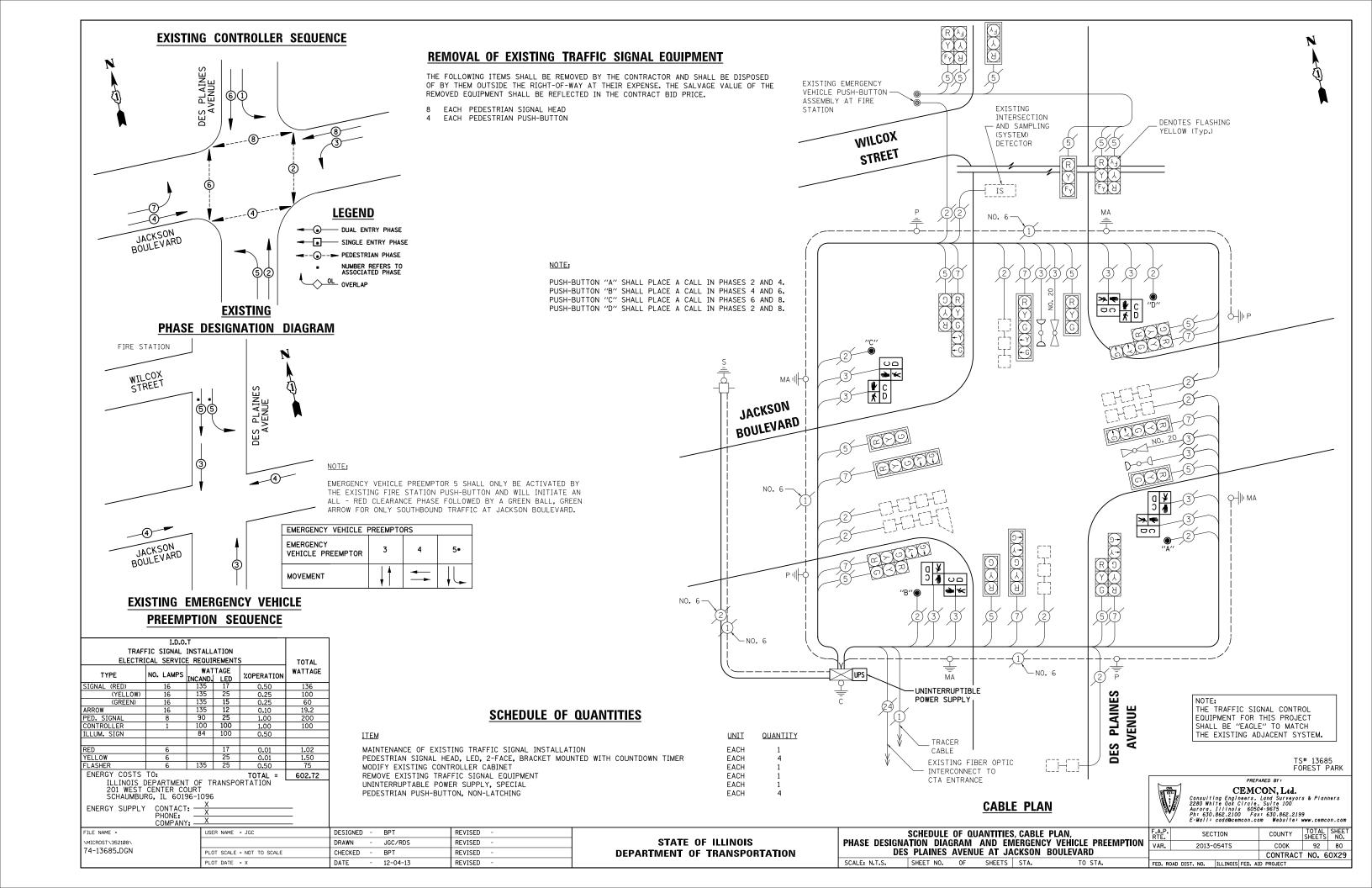
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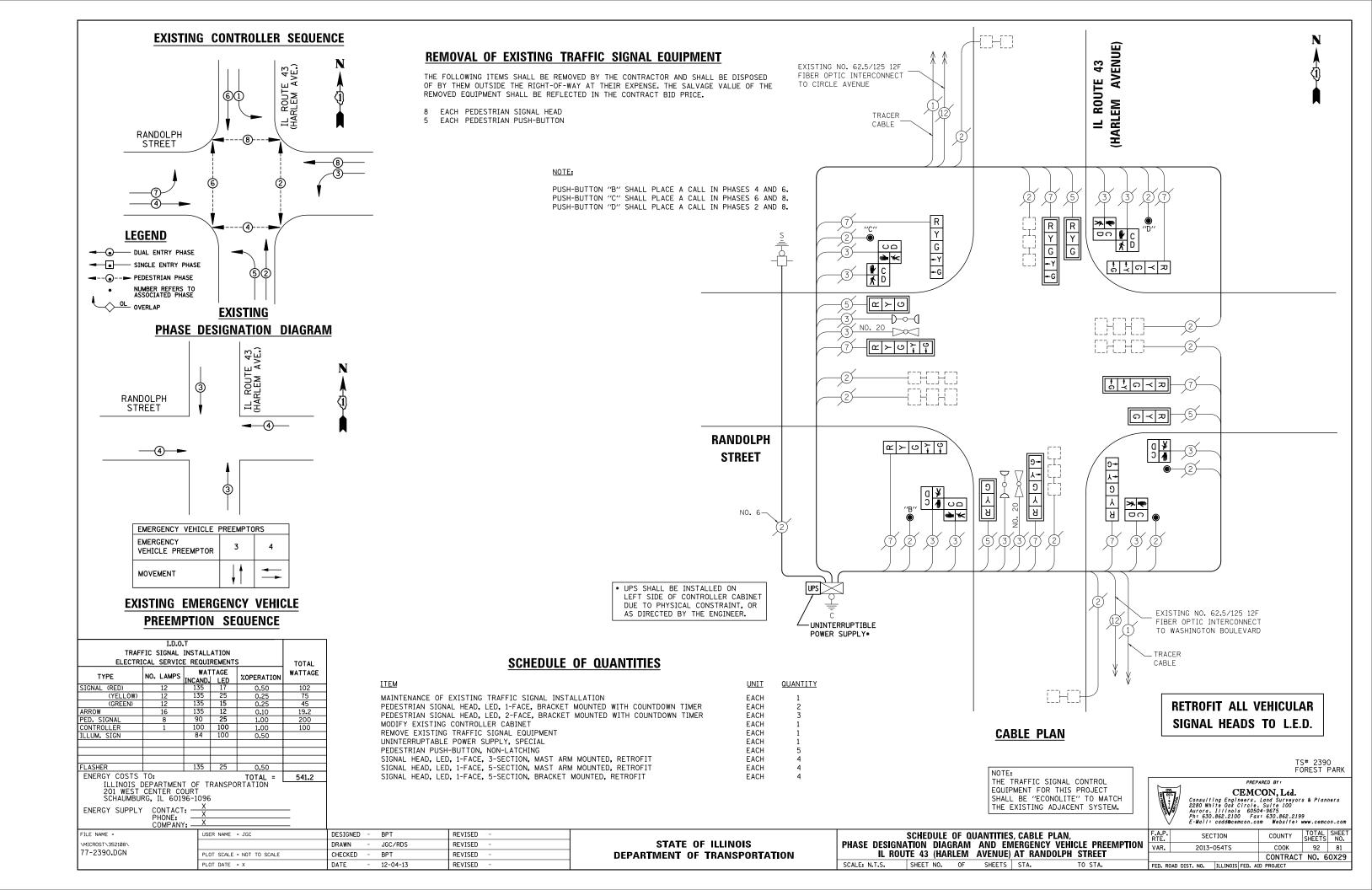
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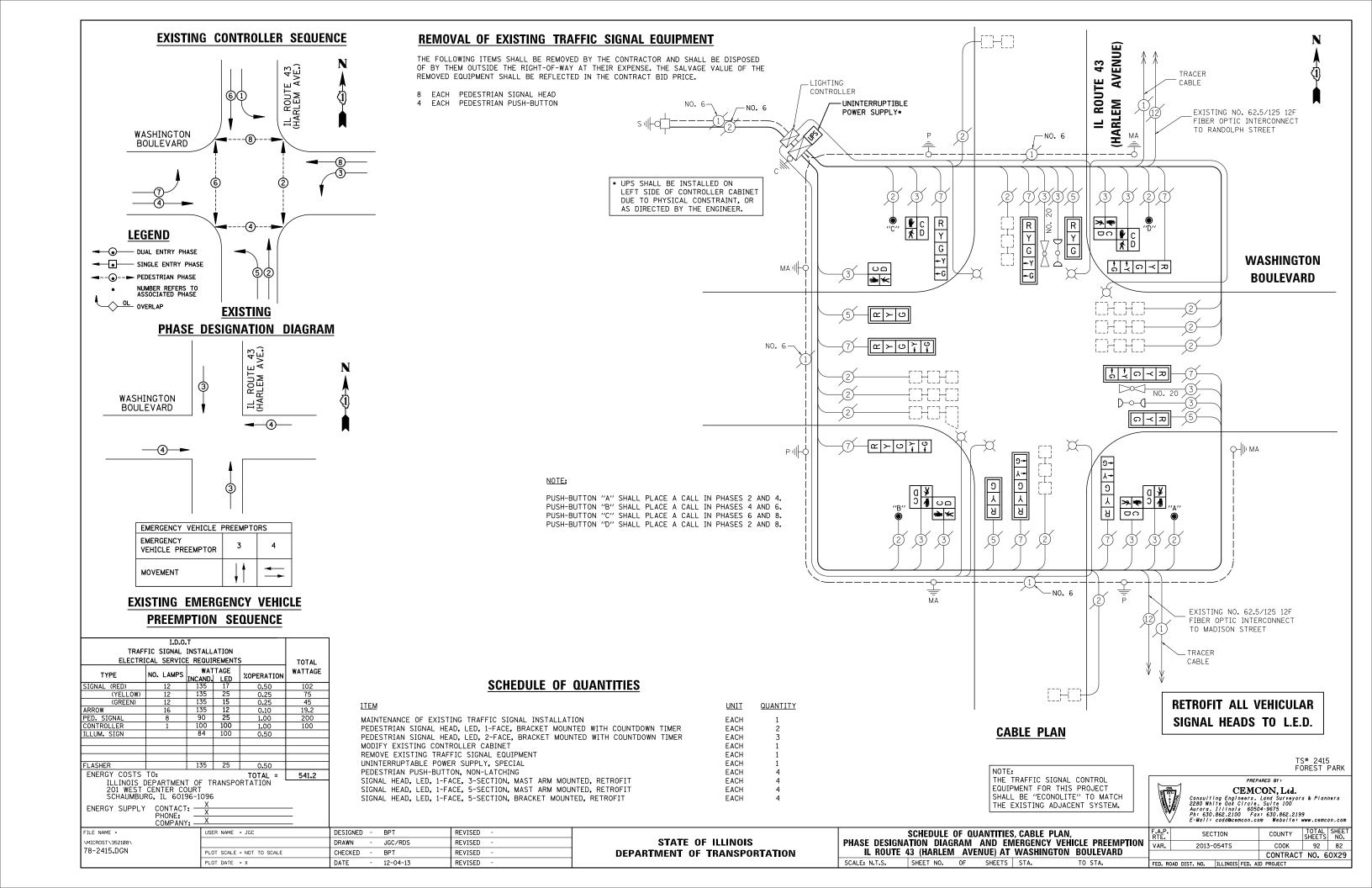
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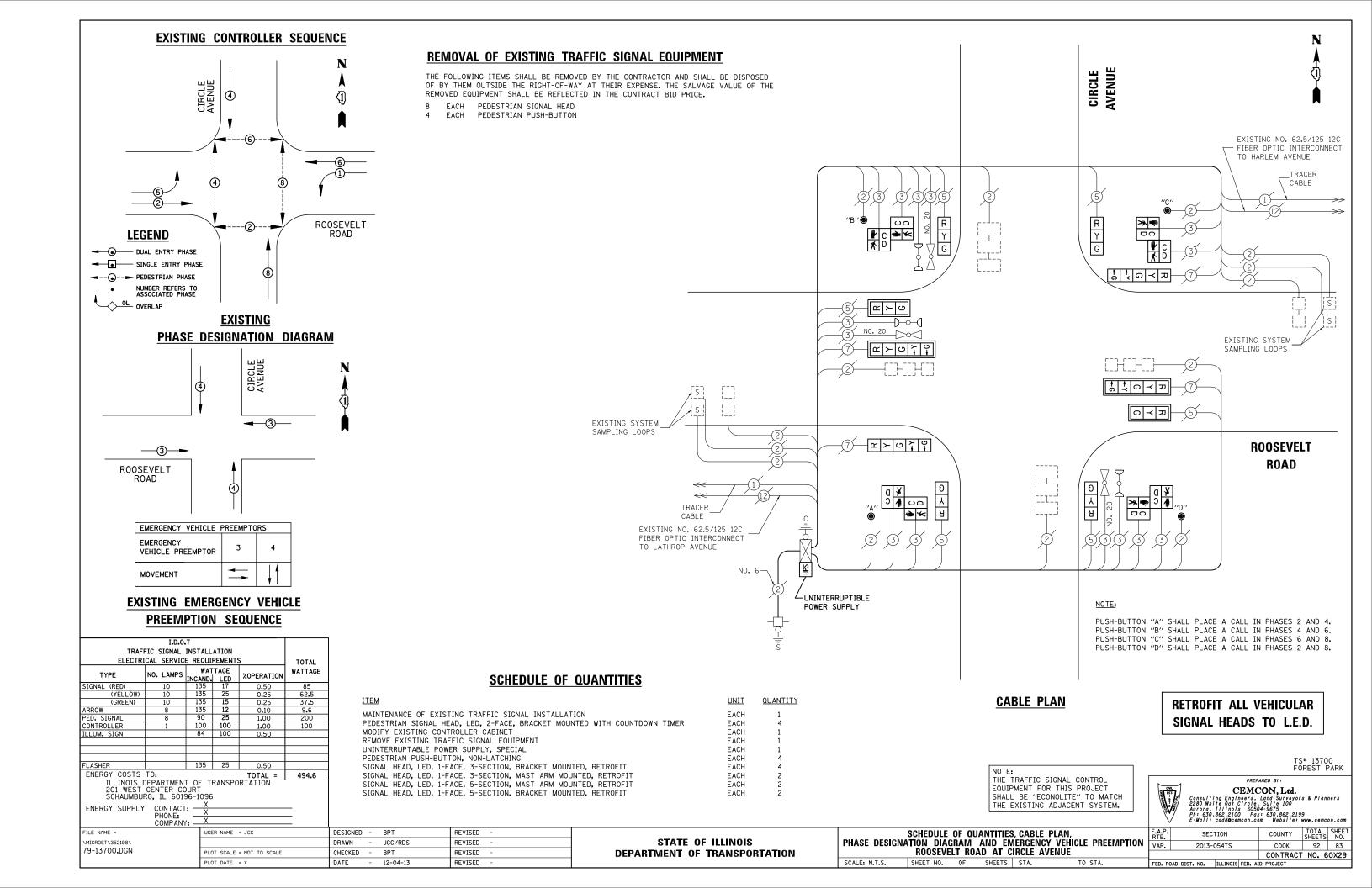


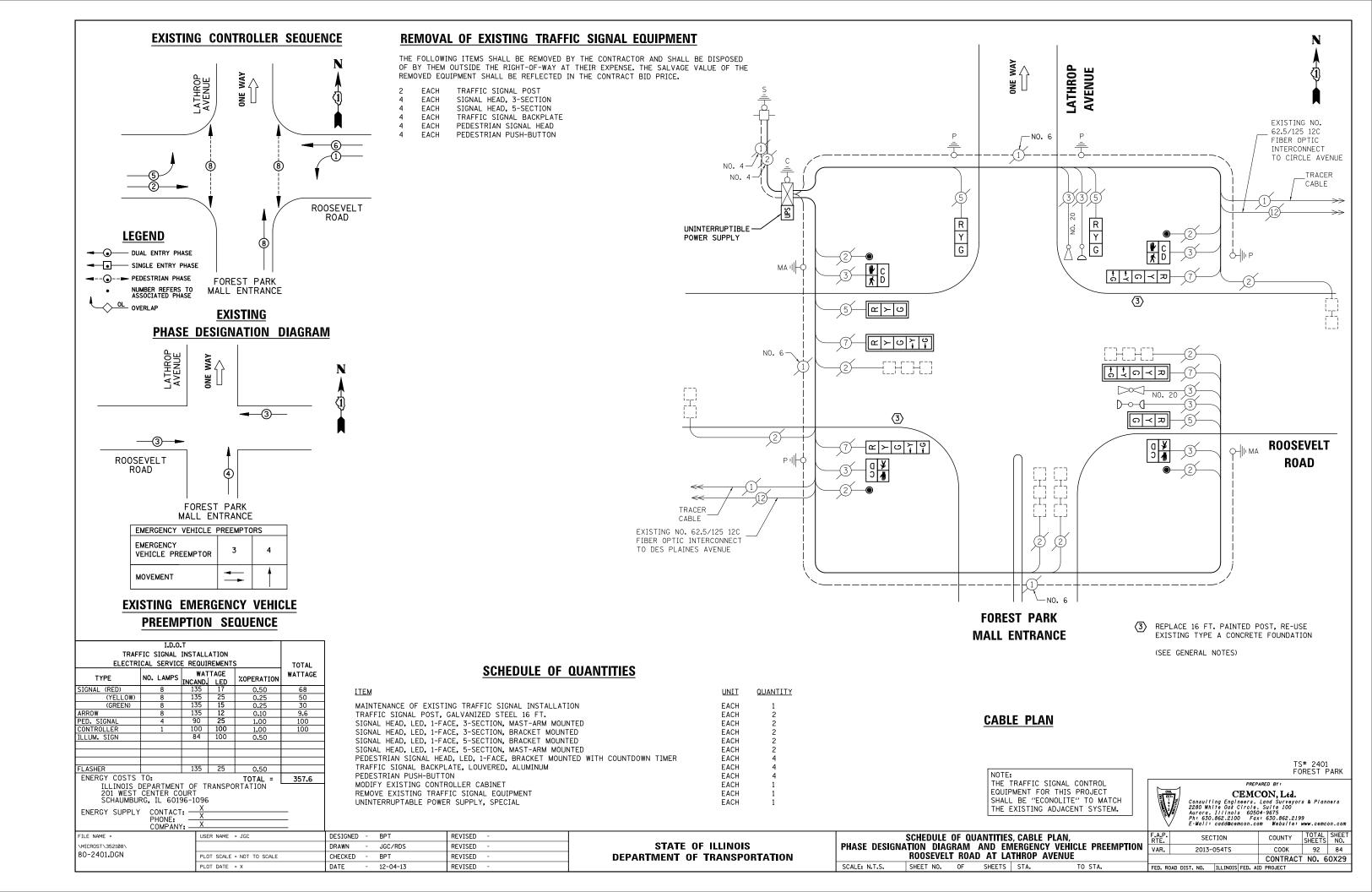


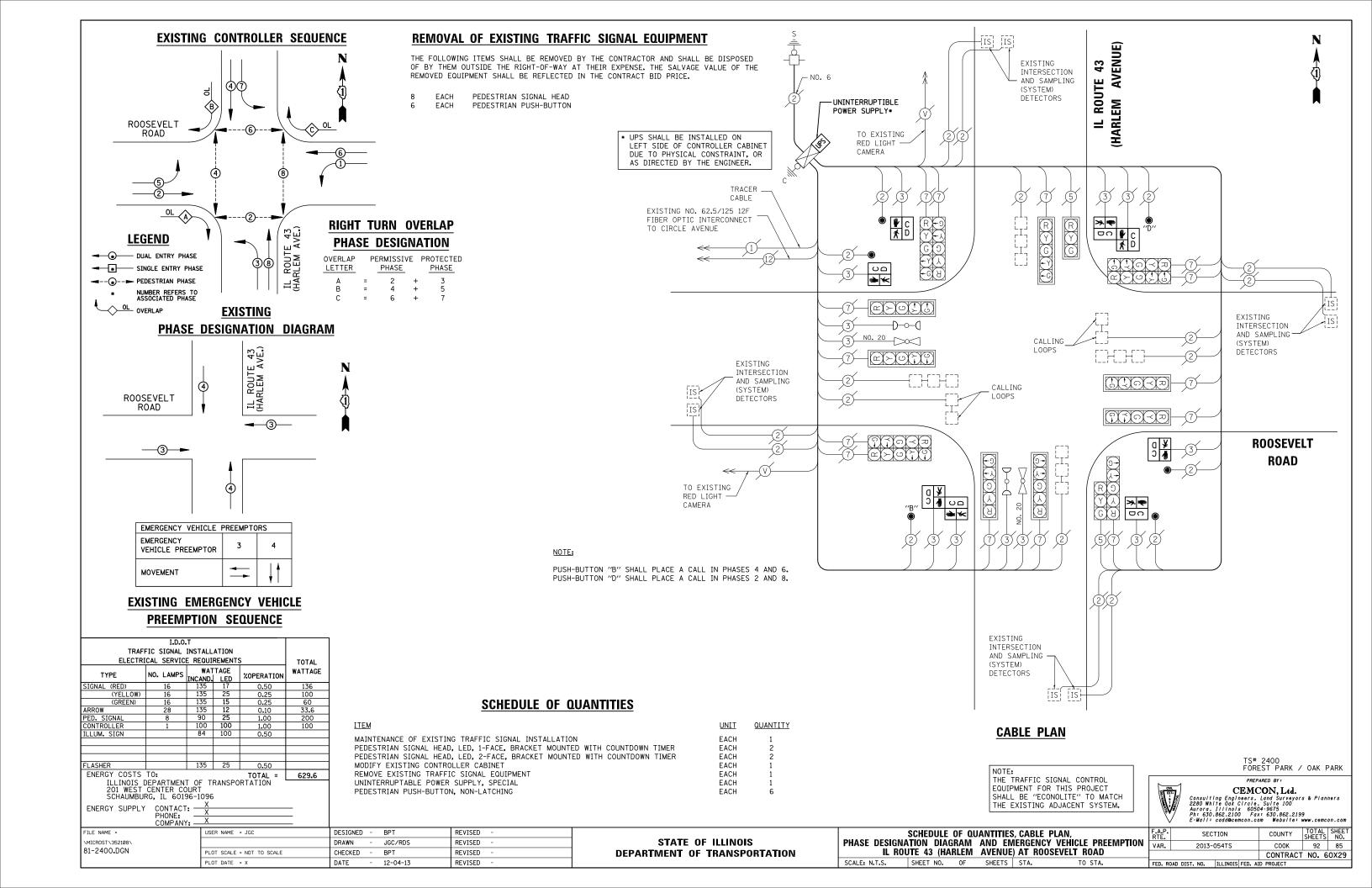


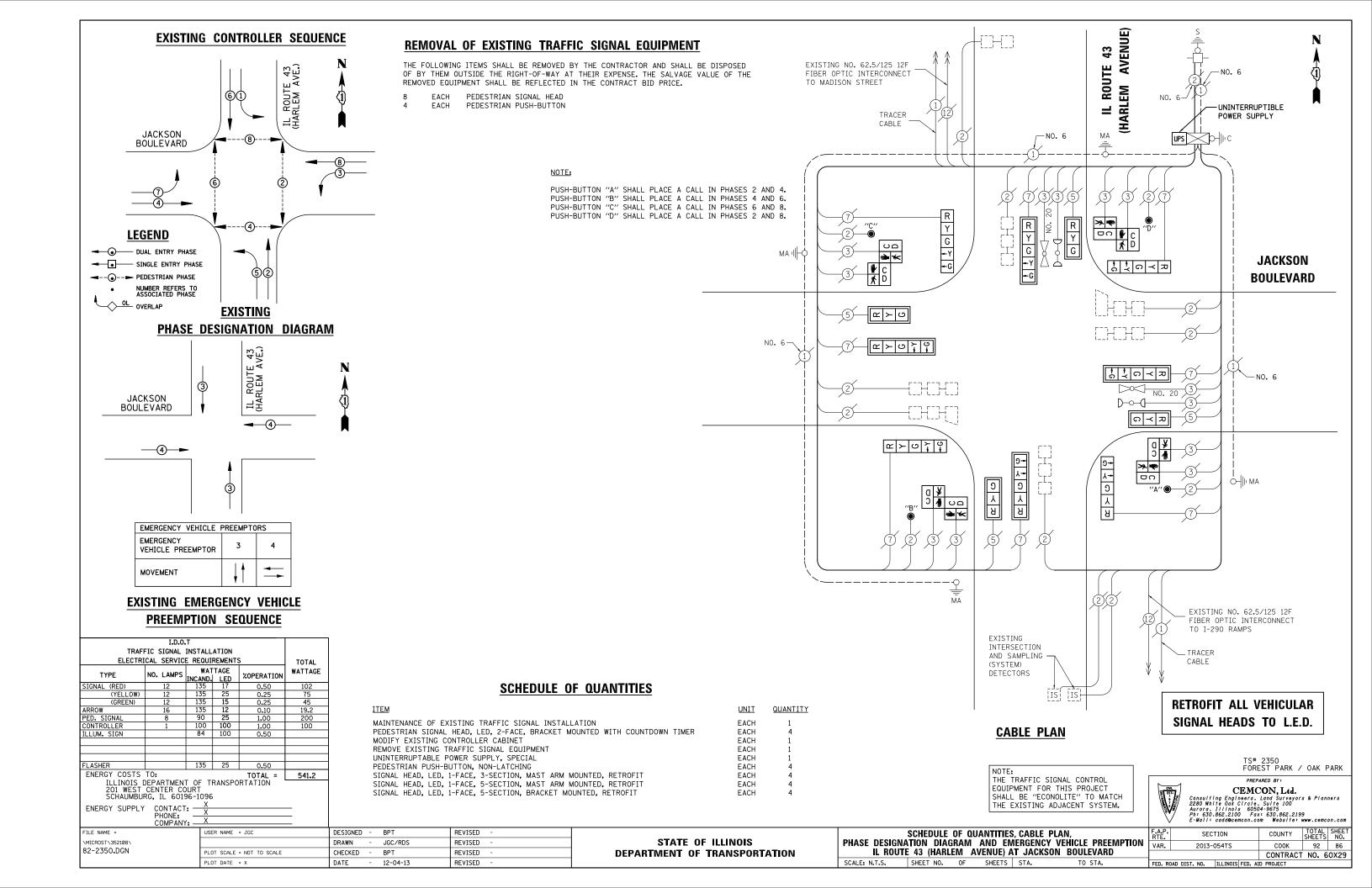


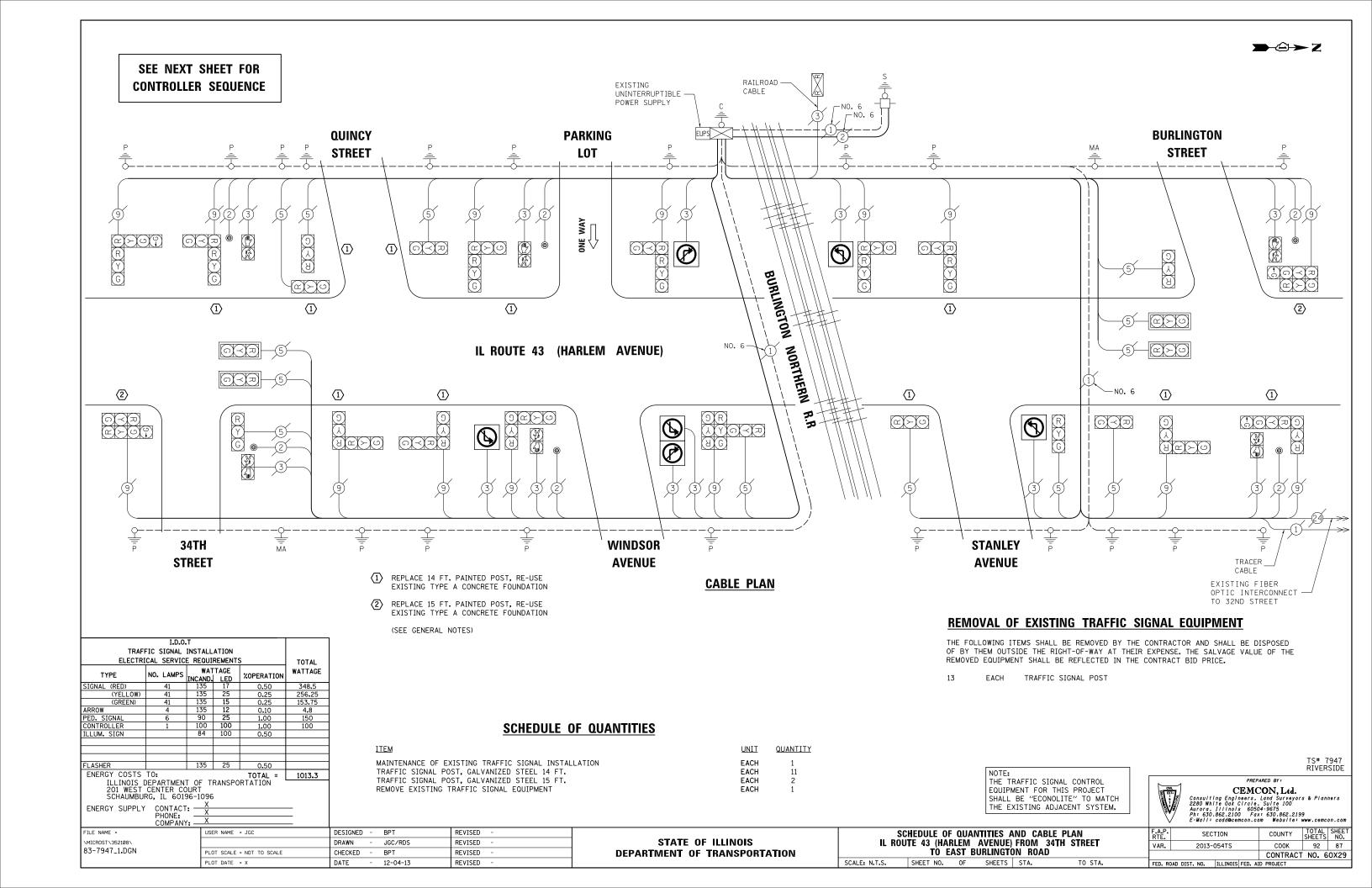












RTE. SECTION COUNTY TOTAL SHEET NO. TRAFFIC SIGNAL SEQUENCE OF OPERATION 348 2001-059 TS COOK 14 11 FED, ROAD DIST, NO. ILLINOIS FED. AID PROJECT LL. RTE. 43 (HARLEM AVE.) (HARLEM AVE.) LL. RTE. 43 MOVEMENT >>> Z PHASE 1 SHALL BE 2 PHASE PLACED ON RECALL MODIFICATION OF THE CONTROLLER SHALL CONSIST OF ADDITION OF 5B 2A 2B 20 2D 2E 2F 2G 2H 2J 2K 3 5A INTERVAL PEDESTRIAN MOVEMENTS EQUIPMENT. CHANGE TO 2 ILL. RTE. 43 (HARLEM AV.) AT E. BURLINGTON RD. S/B R R R R R R ALL SIGNALS ILL. RTE. 43 (HARLEM AV.) AT E. BURLINGTON RD. END MAST ARM AND FAR LEFT SIGNALS G G G G G G R G R G ILL. RTE. 43 (HARLEM AV.) AT E. BURLINGTON RD. NEAR AND FAR RIGHT SIGNALS R G R R G G G G G G R G ILL. RTE. 43 (HARLEM AV.) AT STANLEY AVE. R R R R G S/B G G ALL SIGNALS ILL. RTE. 43 (HARLEM AV.) AT STANLEY AVE. R N/B G G G ALL SIGNALS ILL. RTE. 43 (HARLEM AV.) AT WINDSOR AVE. R G G R R G S/B G G ALL SIGNALS ILL. RTE. 43 (HARLEM AV.) AT WINDSOR AVE. G G R R G G G R R N/B ALL SIGNALS ILL. RTE. 43 (HARLEM AV.) AT QUINCY STREET R G G R S/B G G ALL SIGNALS ILL. RTE. 43 (HARLEM AV.) AT QUINCY STREET ALL SIGNALS R R R R N/B G G ILL. RTE. 43 (HARLEM AV.) AT 34TH STREET FAR LEFT AND FAR RIGHT SIGNALS R R R G G R S/B G G G ILL. RTE. 43 (HARLEM AV.) AT 34TH STREET R G G G G G G G R S/B G NEAR RIGHT SIGNALS ILL. RTE. 43 (HARLEM AV.) AT 34TH STREET ALL SIGNALS R R N/B G E. BURLINGTON ROAD R R R R G E/B R ALL SIGNALS STANLEY AVE. R G R Y R W/B ALL SIGNALS WINDSOR AVE. R G R R R G E/B R R ALL SIGNALS WINDSOR AVE. G R W/B R R ALL SIGNALS QUINCY STREET G R R G E/B R R R R R Y ALL SIGNALS 34TH STREET R R R R R R R R R G G W/B ALL SIGNALS PEDESTRIAN SIGNALS CROSSING ** FH DK ILL. RTE. 43 (HARLEM AV.) THIS "OR FLASHING "TINTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT REVISIONS DATE ILLINOIS DEPARTMENT OF TRANSPORTATION P = ILLUMINATED PERSON = WALK . FLASHING TIS TO TERMINATE AT THE COMPLETION SEQUENCE OF OPERATION AND RAILROAD PREEMPTION SEQUENCE OF OPERATION FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK THROUGH MOVEMENT IF THE LEFT ARROW TIME 15 NOT SUFFICIENT TO COMPLETE OR FLASHING H = ILLUMINATED SOLID HAND = DON'T WALK OF THE PEDESTRIAN INTERVAL CLEARANCE. ILL. ROUTE 43 (HARLEM AVE.) AND 34TH ST./OUINCY ST./WINDSOR AVE. /STANLEY/EAST BURLINGTON RD. AND FLASHING TIMINGS TO BE SET ONLY ON PHASES WHERE SCALE: NONE DRAWN BY: BCK DESI GNED BY:RKF CHECKED BY: DAD "AND FLASHING" ARE INDICATED IN THE SEQUENCE OF OPERATION. : 09:29:42 12/03/2002

SEE NEXT SHEET FOR RAILROAD PREEMPTION SEQUENCE OF OPERATION

EXISTING SEQUENCES - INCLUDED FOR REFERENCE ONLY

TS# 7947 RIVERSIDE PREPARED BY: CEMCON, Led.

Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100 Aurora, Illinois 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199

E-Mail: caddocemcon.co	om Website:	www.cemcon.co			
SECTION	COUNTY	TOTAL SHEETS	SHE		
2013-054TS	соок	92	88		
	CONTRACT	NO 6	UX3		

FILE NAME = DESIGNED - BPT REVISED USER NAME = JGC \MICROST\3521Ø8\ DRAWN JGC/RDS REVISED 83-7947_2.DGN PLOT SCALE = NOT TO SCALE CHECKED BPT REVISED PLOT DATE = X DATE - 12-04-13 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SEQUENCE OF OPERATION IL ROUTE 43 (HARLEM AVENUE) FROM 34TH STREET TO EAST BURLINGTON ROAD SCALE: N.T.S. SHEET NO. OF SHEETS STA.

VAR. CONTRACT NO. 60X29 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

RAILROAD PREEMPTION SEQUENCE OF OPERATION

F.A.P. RTE.	SECTION	1	COUNT	Υ	TOTAL	SHEET NO.
348	2001-059	TS	COO	(14	12
STA.			TO STA.			
FED. RO	AD DIST. NO.	ILLIN	IOIS FED.	. AID	PROJECT	

					PREEMPTOR NUMBER 2						
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		3						\$	
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	10	1D	2	3	4	5	6	7	CLEAR
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	3	4	5	6	7		NORMAL SEQUENCE
ILL. RTE. 43 (HARLEM AV.) AT E. BURLINGTON RD. S/BALL SIGNALS	Y	R	R	R	· R	·R ·	R	R	R	R	Δ
ILL. RTE. 43 (HARLEM AV.) AT E. BURLINGTON RD. N/B END MAST ARM AND FAR LEFT SIGNALS	G	G	R	R	G G	G G	G G	Y	R	R	Δ
ILL. RTE. 43 (HARLEM AV.) AT E. BURLINGTON RD. N/B NEAR AND FAR RIGHT SIGNALS	G	G	R	R	G	G	G	Y	R	R	Δ
ILL. RTE, 43 (HARLEM AV.) AT STANLEY AVE. S/B	Y	R	R	R	R	R	R	R	R	R	Δ
ILL. RTE. 43 (HARLEM AV.) AT STANLEY AV. ALL SIGNALS	G	G	R	R	G	Y	R	R	R	R	Δ
ILL. RTE. 43 (HARLEM AV.) AT WINDSOR AV. ALL SIGNALS	G	G	R	R	G	Y	R	R	R	R	Δ
ILL. RTE. 43 (HARLEM AV.) AT WINDSOR AV. ALL SIGNALS	Y	R	R	R	R	·R	R	R	R	R	Δ
ILL. RTE. 43 (HARLEM AV.) AT QUINCY STREET ALL SIGNALS	G	G	R	R	G	G	G	Y	R	R	Δ
TLL. RTE. 43 (HARLEM AV.) AT QUINCY STREET N/B	Y	R	R	R	R	R	R	R	R	R	Δ
ILL. RTE. 43 (HARLEM AV.) AT 34TH STREET FAR LEFT AND FAR RIGHT SIGNALS	G	G	R	R	G G	G G	G G	Y	R	R	Δ
ILL. RTE. 43 (HARLEM AV.) AT 34TH STREET NEAR RIGHT SIGNALS	G	G	R	R	G	G	G	Y	R	R	Δ
ILL. RTE. 43 (HARLEM AV.) AT 34TH STREET N/B	Y	R	. R .	R	R	R	R	R	R	R	Δ
E. BURLINGTON ROAD E/B ALL SIGNALS	R	R	Y	R	R	R	R	R	R	G	Δ
STANLEY AV. ALL SIGNALS W/B	R	R	Y	R	R	R	R	R	R	G	Δ
WINDSOR AV. ALL SIGNALS E/B	R	R .	Y	R	R	R	R	R	R	G	Δ
WINDSOR AV. ALL SIGNALS W/B	R	R	Y	R	. R	R.	R	R	R	G	Δ
QUINCY STREET ALL SIGNALS E/B	R	R	Y	R	R	R	R	R	R	G	Δ
34TH STREET ALL SIGNALS W/B	R	R	Y	R	R	R	R	R	R	G	Δ
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 43 (HARLEM AV.)	Н	Н	FH	Н	Н	н	Н	Н.	Н	Н	Δ
INTERNALLY ILLUMINATED SIGNS NO RIGHT TURN SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	Δ
INTERNALLY ILLUMINATED SIGNS NO LEFT TURN SIGNS	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	Δ
										HOLD	

NLT = "NO LEFT TURN" OR

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

☐ = RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 7 IS TERMINATED.

RAILROAD PREEMPTION SEQUENCE OF OPERATION ILL. ROUTE 43 (HARLEM AVE.) AND 34TH ST./ OUINCY ST./WINDSOR AVE. /STANLEY/EAST BURLINGTON RD.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE DATE: 12/03/2002

: 09:29:32 12/03/2002

EXISTING SEQUENCES - INCLUDED FOR REFERENCE ONLY

PREPARED BY: CEMCON, Ltd.
Consulting Engineers. Land Surveyors & Planners 2280 White Oak Circle, Suite 100 Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Wail: caddecemcon.com Website: www.cemcon.co.

TS# 7947 RIVERSIDE

FILE NAME = USER NAME = JGC DESIGNED - BPT REVISED STATE OF ILLINOIS REVISED \MICROST\3521Ø8\ DRAWN JGC/RDS CHECKED - BPT REVISED REVISED

DATE - 12-04-13

RAILROAD PREEMPTION SEQUENCE OF OPERATION IL ROUTE 43 (HARLEM AVENUE) FROM 34TH STREET TO EAST BURLINGTON ROAD

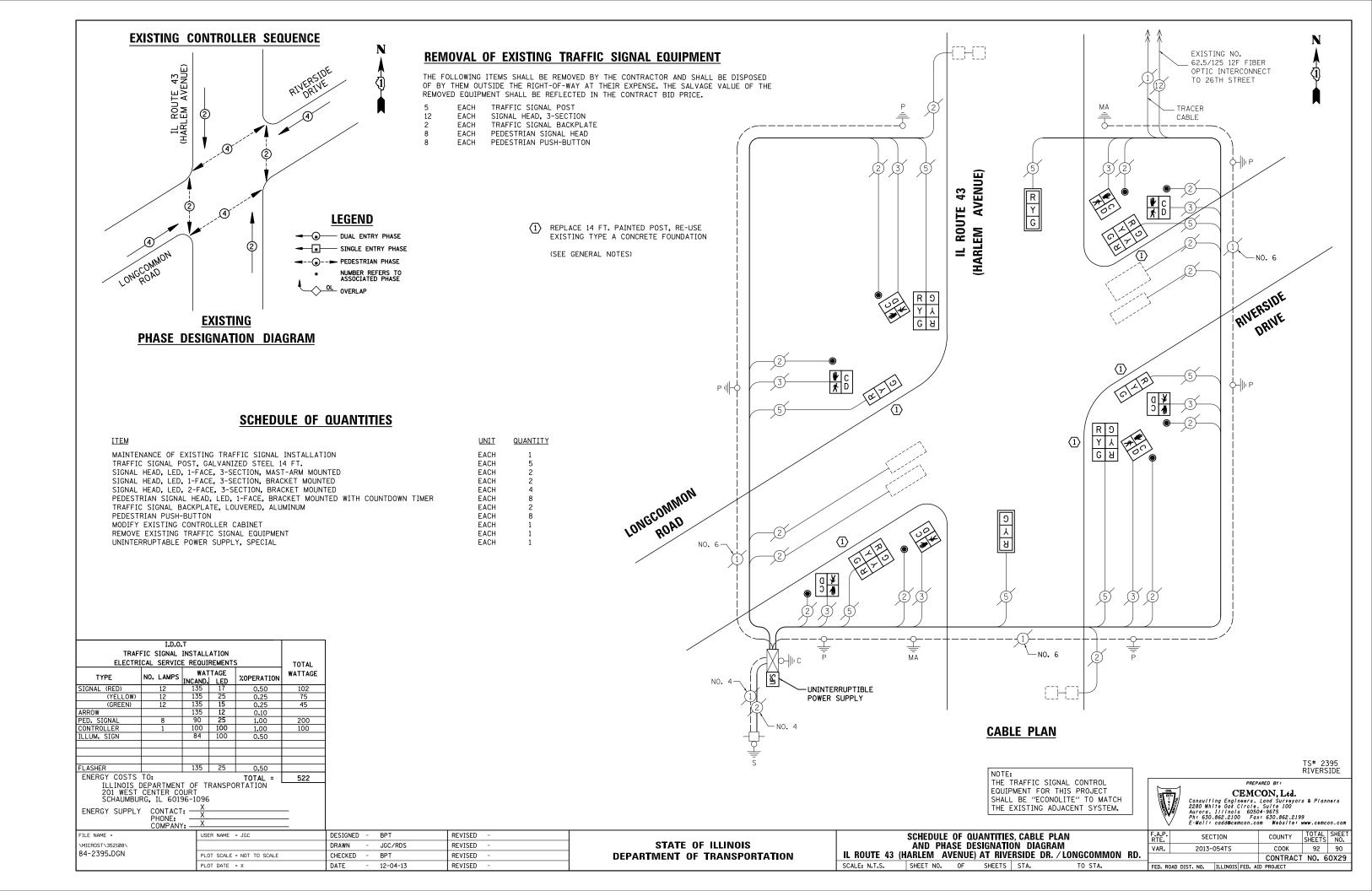
\	/ E-	матт	caaawcei	ncon.	сот	Websites	www.cemc	on.com
A.P.	SECTION					COUNTY	TOTAL SHEETS	SHEET NO.
AR.	2013-054TS					соок	92	89
				CONTRAC	NO. 6	0X29		
ED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		

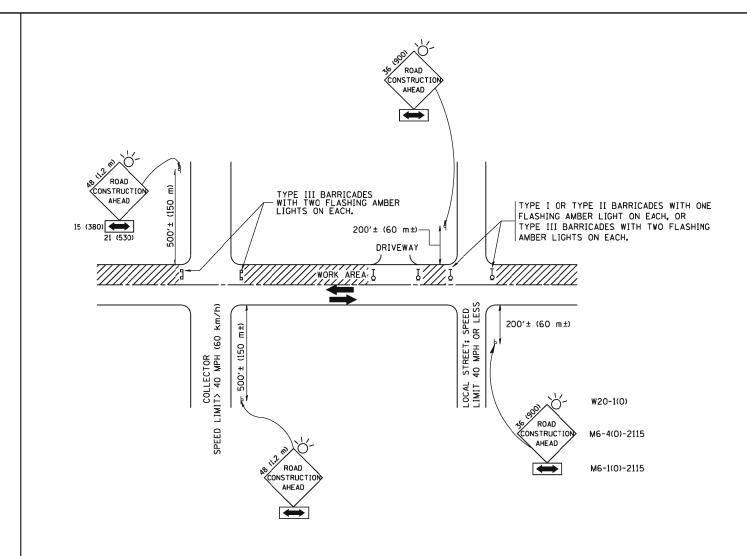
SHEET NO. OF SHEETS STA.

83-7947_3.DGN

PLOT DATE = X

DEPARTMENT OF TRANSPORTATION





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 $36\times36~(900\times900)$ 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:
- 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	0F	TRANSPORTATION						

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					VAR.	2013-054TS	COOK	92	91
	SIDE NUADS, II	WI ENGLE HOW	S, AND I	MIVEVVATS		TC-10	CONTRACT	NO. 6	60X29
	SHEET NO. 1 OF	1 SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

