09-20-13 LETTING ITEM 011

FOR INDEX OF SHEETS, SEE SHEET NO. 2

## STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

# PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN SOUTH COOK COUNTY LIGHT EMITTING DIODE (LED) INSTALLATION CONTRACT #1

> SECTION 2013-035TS COOK COUNTY C-91-380-13

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



2013-035TS

S COOK 93 1 ILLINOIS CONTRACT NO. 60W81

VAR.

### **IDOT STANDARDS:**

0

D. 110.	22.55
000001-05	STANDARO SYMBOLS, ABBREVIATIONS AND SYMBOLS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15" (4.5m) AWAY
701006-04	OFF-ROAD OPERATIONS, 2L, 2W, 15" (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-03	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT ED
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701501-06	URBAN LANE CLOSURE, 21, 2W, UNDIVIDED
701502-05	URBAN LANE CLOSURE, 2L, 2W, BIDIRECTIONAL LEFT TURN LANE
701601-08	URBAN LANE CLOSURE, MULTILANE, TW, OR ZW WITH NONTRAVERSABLE MEDIAN
701605-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
72000101	SIGN PANEL MOUNTING DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

TRAFFIC SIGNAL MOUNTING DETAILS

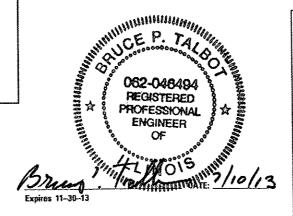
0 100° 200° 330° — 1° = 100° 0 50° 100° — 1° = 50° 0 50° 100° — 1° = 40° 0 50° 100° — 1° = 30° 0 50° 100° — 1° = 20°

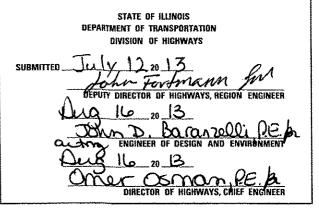
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS 1-80D-892-0123 OR 811

PROJECT ENGINEER: STEVEN NGUYEN (847) 705-4184
PROJECT MANAGER: SUDUD MAHMOUD (847) 705-4420

CONTRACT NO. 60W81





CEMCON, Ltd.
Consulting Engineers. Land Surveyors & Flanners
2280 White Oak Circle. Sults 100
Aurora. Illinois 50504-9615
Ph. 630.662.2100 Fax: 630.862.2199
E-Hall: caddeannon.com Websits: wew.cemcon.com

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                           79TH ST @ 78TH AVE
   17
            TS 12755
                           79TH ST & OKETO AVE
            TS 2165
                           IL 43/HARLEM AVE @ 71ST ST
            TS 2170
                             43/HARLEM AVE @ 75TH ST
            TS 2345
TS 2175
   20
21
                             43/HARLEM AVE @ 77TH ST
                           IL 43/HARLEM AVE & 79TH ST
   22
23
            T$ 2180
                             43/HARLEM AVE @ 83RD ST
                             43/HARLEM AVE & 84TH ST
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            T$ 2185
                           IL 43/HARLEM AVE @ 87TH ST
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                           IL 43/HARLEM AVE & 88TH/SOUTHFIELD SHOPPING CENTER DR
                             43/HARLEM AVE @ 90TH ST/CAMBRIDGE DE
            TS 2195
            TS 2335
                             43/HARLEM AVE @ 92ND PL/STANFORD DR
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                           IL 43/HARLEM AVE & 100TH PI
                           79TH ST & NARRAGANSETT AVE
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                          IL 50/CICERO AVE & BURBANK STATION/77TH ST
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                          IL 50/CICERO AVE & SOTH AVE
IL 50/CICERO AVE & 83RD ST
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                           55TH ST/ARCHER AVE & CENTER AVE/LAWNDALE AVE
            TS 3555
                          IL 171/ARCHER AVE & 55TH ST/ARCHER AVE IL 171/ARCHER AVE & 57TH ST/BULLDOG DR
            TS 20525
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            TS 3545
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                          CRAWFORD AVE/PULASKI RD @ 93RD ST
                          CRAWFORD AVE/PULASKI RD @ 99TH ST
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TS 2495
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IL 50/CICERO AVE @ 103RD ST
                             50/CICERO AVE @ 105TH ST
            TS 2500
                         IL 50/CICERO AVE & 107TH ST
IL 50/CICERO AVE & 110TH ST
            TS 2505
           TS 2512
TS 12135
                         111TH ST & JODAN DR / LARAMIE AVE
            TS 9335
                          CRAWFORD AVE/PULASKI RD . 107TH ST
                         CRAWFORD AVE/PULASKI RD @ 103RD ST
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                          WESTERN AVE @ 99TH ST
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            TS 3935
                         IL 7 SOUTHWEST HWY & 103RD ST/VIRGINIA L SIEGEL MEMORIAL DR
                          IL 7 SOUTHWEST HWY & IL 43 HARLEM AVE
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            TS 8770
                          111TH ST & OKETO AVE
            TS 2210
                         111TH ST & IL 43 HARLEM AVE
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           AND DRIVEWAYS (TC-10)
  93
           TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN
```

OPEN TO TRAFFIC) (TC-14)

FILE NAME .

MICROST\352107

02-INDEX.DGN

### **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, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY

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

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 BEFORE THE DAMAGE

INCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

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

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

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

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

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

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

RLR CAMERA LOCATIONS:

TS# 2260 IL 43 (HARLEM AVENUE) AT 55TH STREET

VILLAGE OF SUMMIT 7321 W. 59TH STREET SUMMIT, II 60501 708-563-4800

SAFESPEED, LLC 150 N. WACKER DRIVE CHICAGO, IL 60606 877-237-2331

95TH STREET AT RIDGELAND AVENUE CICERO AVENUE AT 87TH STREET TS# 2480

VILLAGE OF OAK LAWN 9446 S. RAYMOND AVENUE OAK LAWN, IL 60453

708-636-4400

REDFLEX TRAFFIC SYSTEMS 773-633-5807

SOUTHWEST HIGHWAY AT HARLEM AVENUE TS# 1890 HARLEM AVENUE AT 111TH STREET TS# 2210

VILLAGE OF WORTH 7112 W. 111TH STREET WORTH, IL 60482 708-448-1181

REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH LOMBARD, IL 60148

630-317-5720

TO STA.

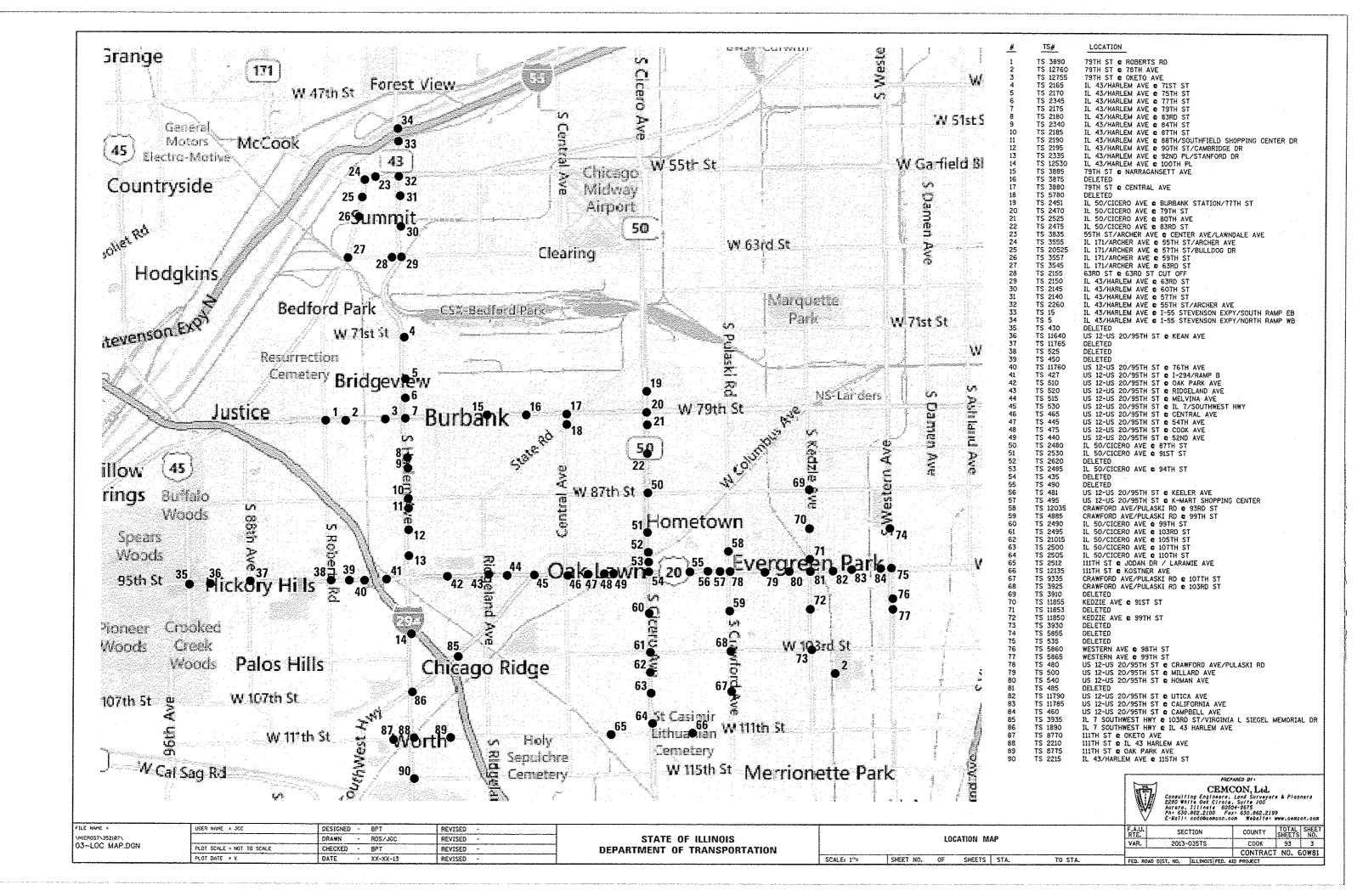
CEMCON. Led. Consulting Engineers. Land Surveyors & Planners 2280 White Oak Cirole, Suite 190 Aurors. 11linais 6504-9575 Ph. 530.862.2100 Fax: 630.862.2199 E-Wall: caddoosmon.com Website: www.osmon.o.

USER NAME \* JCC DESIGNED - BPT REVISED DRAWN - RDS/JGC REVISED PLOT SCALE = NOT TO SCALE CHECKED - BPT REVISED PLOT DATE + X DATE - XX-XX-13 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS

TOTAL SHEET SHEETS NO. F.A.U. RTE. SECTION COHNTY COOK 93 2 CONTRACT NO. 60#81 VAR. 2013-035TS FEO. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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



### SUMMARY OF QUANTITIES HEADING LEGEND FUNDING PARTICIPATION

													T	T		CENTRO	
LOCATION	COLUMN 1	TS *	INTERSECTION	MUNICIPALITY	STATE	BRIDGEVIEW	BURBANK	SUMMIT	HICKORY HILLS	OAK LAWN	EVERGREEN   PARK	WORTH	RIDGE	CHICAGO	STICKNEY TWP	GROUP	SCOTTSDALE LTD
1	7	3890	79TH ST & ROBERTS RD	BRIDGEVIEW	95%	5%		<b> </b>				<del></del>	<u> </u>	<del> </del>			
2	7	12760	79TH ST & 78TH AVE	BRIDGEVIEW	95%	5%							1		1		
3	7	12755	79TH ST @ OKETO AVE	BRIDGEVIEW	95%	5%		<del> </del>	<u> </u>	1					-		
4	7	2165	IL 43/HARLEM AVE @ 71ST ST	BRIDGEVIEW	95%	5%	<del>*************************************</del>	1	· · · · · · · · · · · · · · · · · · ·	<u> </u>				1	<u> </u>		
5	8	2170	IL 43/HARLEM AVE & 75TH ST	BRIDGEVIEW	95%	2.5%		<u> </u>	<u> </u>	<u> </u>			1	1	2.5%		
6	7	2345	IL 43/HARLEM AVE @ 77TH ST	BRIDGEVIEW	95%	5%		<u> </u>	<del> </del>	<del> </del>		····		<b></b>		1	
7	1	2175	IL 43/HARLEM AVE & 79TH ST	BRIDGEVIEW	100%			<del> </del>	<u> </u>	1						† · · · · · · · · ·	
8	7	2180	IL 43/HARLEM AVE @ 83RD ST	BRIDGEVIEW	95%	5%		<u> </u>	1	<del> </del>			1	1	1	<del> </del>	
9	7	2340	IL 43/HARLEM AVE & 84TH ST	BRIDGEVIEW	95%	5%		<del> </del>	<del> </del>	<del> </del>				ļ	1	<u> </u>	
10	1	2185	IL 43/HARLEM AVE @ 87TH ST	BRIDGEVIEW	100%			<del> </del>	T	İ			<del>                                     </del>		1	<del> </del>	
11	9	2190	IL 43/HARLEM AVE @ 88TH/SOUTHFIELD SHOPPING CENTER DR	BRIDGEVIEW	95%	1			1	<u> </u>		······································	<b>†</b>	<b>†</b>	<del> </del>	5%	
12	7	2195	IL 43/HARLEM AVE @ 90TH ST/CAMBRIDGE DR	BRIDGEVIEW	95%	5%		İ	1	<b>†</b>	· · · · · · · ·				<u> </u>	1	<u> </u>
13	7	2335	IL 43/HARLEM AVE & 92ND PL/STANFORD DR	BRIDGEVIEW	95%	5%			<b> </b>	l · · · · · · · ·	<u> </u>	<del></del>	<del> </del>	<u> </u>		<del> </del>	
14	7	12530	IL 43/HARLEM AVE & 100TH PL	BRIDGEVIEW	95%	5%			<del>                                     </del>				<b>†</b>	ļ	1 .	<del>                                     </del>	
15	10	3885	79TH ST @ NARRAGANSETT AVE	BRIDGEVIEW	95%		5%		<del> </del>			<del></del>	<del> </del>	<u> </u>			
16		3875	DELETED		<del> </del>	1		<del> </del>	<del> </del>			·		<u> </u>		+	
17	1	3880	79TH ST @ CENTRAL AVE	BURBANK	100%	+		<del> </del>	<u> </u>						<u> </u>	†	-
18	-	5780	DELETED	BURBANK			· · · · · · · · · · · · · · · · · · ·	<del> </del>	<del> </del>				<del> </del>	<del> </del>	<del> </del>	1	<u> </u>
19	10	2451	IL 50/CICERO AVE & BURBANK STATION/77TH ST	BURBANK	95%	1	5%	<u> </u>	1	<u> </u>		· ·	†	<del></del>	1	1	
20	1	2470	IL 50/CICERO AVE & 79TH ST	BURBANK	100%			<b> </b>	†			<del></del>	<del> </del>	· · · · · · · · · · · · · · · · · · ·		1-	
21	12	2525	IL 50/CICERO AVE & SOTH AVE	BURBANK	95%			<del></del>	<del> </del>	<del> </del>		<del></del>	<del> </del>	<u> </u>		<del> </del>	5%
22		2475	IL 50/CICERO AVE & 83RD ST	BURBANK	95%	<del></del>	5%	ļ	1	<b> </b>	<u> </u>		<del> </del>	<u> </u>	<u> </u>	<del>                                     </del>	
23		3835	55TH ST/ARCHER AVE & CENTER AVE/LAWNDALE AVE	SUMMIT	96. 7%			3. 3%	<del>                                     </del>	<del>                                     </del>			<del> </del>	<del> </del>			
24		3555	IL 171/ARCHER AVE & 55TH ST/ARCHER AVE	SUMMIT	100%			1 - 37 - 37	<del> </del>	<del> </del>		······································	<del> </del>	<b></b>	<del> </del>	<del> </del>	
25	11	20525	IL 171/ARCHER AVE & S7TH ST/BULLDOG DR	SUMMIT	95%			5%	<del> </del>	<del> </del>		<del></del>	<del> </del>	<del> </del>	<del> </del>	<u> </u>	<del></del>
26		3557	IL 171/ARCHER AVE & 59TH ST	SUMMIT	95%		<del></del>	5%		<u> </u>		<del></del>	<del> </del>				<u> </u>
27	2	3545	IL 171/ARCHER AVE & 63RD ST	SUMMIT	97.5%	+		2.5%		<u> </u>		<del> </del>	1	ļ			· · · · ·
28		2155	63RD ST @ 63RD ST CUT OFF	SUMMIT	100%			21 3/2		<u> </u>		·····	1			<u> </u>	İ
29		2150	IL 43/HARLEM AVE & 63RD ST	SUMMIT	100%	1	<del></del>	<del> </del>	<del> </del>	ļ		<del></del>	<del> </del>		<del> </del>	<b>-</b>	
30		2145	IL 43/HARLEMEZAVE & GOTH ST	SUMMIT	95%		<del></del>	5%					<u> </u>				<del> </del>
31		2140	IL 43/HARLEMS/AVE © 57TH ST	SUMMIT	95%			5%		<u> </u>		······································	<u> </u>		<u> </u>		
32		2260	IL 43/HARLEM AVE & 55TH ST/ARCHER AVE	SUMMIT	100%			J/.	-	-		<del></del>					
33		15	IL 43/HARLEM AVE & 3511 31/ARCHER AVE	SUMMIT	100%				<u> </u>	<u> </u>				ļ	<del> </del>		<del></del>
34	1	5	IL 43/HARLEM AVE & 1-55 STEVENSON EXPY/NORTH RAMP WB	SUMMIT	100%		<del></del>	<del> </del>	<del> </del>	<del> </del>		<del></del>	<del> </del>	<del> </del>	<del> </del> -		<del> </del>
35	1	430	DELETED	SUMM11	100%								<u> </u>	<del> </del>	<del> </del>	<del> </del>	<b> </b>
36	3	11640	US 12-US 20/95TH ST & KEAN AVE	HICKORY HILLS	97.5%			<u> </u>	2. 5%				<u> </u>			-	-
37		11765	DELETED DELETED	BICKONI MILLS	314 3/4			<del> </del>	2. 3/.	<u> </u>	l	··	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del></del>
38		525	DELETED	<del></del>	<u> </u>	<del>-  </del>	<del></del>	<u> </u>	<del></del>	<b></b>	<u> </u>		<u> </u>	<del> </del>		<b> </b>	
39		450	DELETED		<del> </del>			<del> </del>	<del></del>	<del> </del>			<u> </u>				
40	13	11760	US 12-US 20/95TH ST a 76TH AVE	HICKORY HILLS	95%			<del> </del>	5%	<b> </b>			<u> </u>	<del> </del>	<del></del>		<del> </del>
41	1	427	US 12-US 20/95TH ST @ I-294/RAMP B	OAK LAWN	100%	<del>- </del>		<del> </del>	5%	<del> </del>			<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>	<del> </del>
42		510	US 12-US 20/95TH ST @ OAK PARK AVE	OAK LAWN	95%			<del> </del>	<del> </del>	5%	<del> </del>		<b> </b>		<del> </del>	ļ.	<u> </u>
43	-;-	520	US 12-US 20/95TH ST & RIDGELAND AVE	OAK LAWN	100%			<del> </del>	<del> </del>	3/4	<del> </del>	<del></del>	<del> </del>	<b></b>	<del> </del>		<del></del>
44	14	515	US 12-US 20/95TH ST & MELVINA AVE	OAK LAWN	<del></del>			<del> </del>		5%		· . · · · · · · · · · · · · · · · · · ·	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<b></b>
		530		<del></del>	95%		· · · · · · ·		1	5%		· · · · ·		<u> </u>		<del> </del>	
45	14	465	US 12-US 20/95TH ST @ IL 7/SOUTHWEST HWY US 12-US 20/95TH ST @ CENTRAL AVE	OAK LAWN	95%				<u> </u>	3/.	<u> </u>		<u> </u>		<del> </del>	<del> </del>	<del></del>
46	1.6	465	US 12-US 20/95TH ST & CENTRAL AVE	OAK LAWN	100%	<u> </u>		<u></u>	<del> </del>	5%		··· ··· · ·	<del> </del>		<del> </del>	<del> </del>	<del></del>
<del></del>	· · · · · · · · · · · · · · · · · · ·	475	· · · · · · · · · · · · · · · · · · ·	OAK LAWN	95%		<del></del>			5%		<del></del>	<u> </u>	<u> </u>	<del> </del>	<del> </del>	<b></b>
48			US 12-US 20/95TH ST & COOK AVE	OAK LAWN	95%				<del> </del>	5%			<u> </u>		<del> </del>	<del> </del>	<del> </del>
49	14	440	US 12-US 20/95TH ST c 52ND AVE	OAK LAWN	95%			<b></b>		7/4	<del> </del>		<del> </del>		ļ	<del> </del>	<del> </del>
50	1.4	2480	IL 50/CICERO AVE & 87TH ST	OAK LAWN	100%	<del>-  </del>		<del> </del>	<del> </del>	E*/	<del> </del>		<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>
51	14	2530	IL 50/CICERO AVE @ 91ST ST	OAK LAWN	95%			<b></b>	<del> </del>	5%			<del> </del>	<b></b>	<del> </del>	<del> </del>	<del> </del>
52		2620	DELETED		1			<u></u>	<del> </del>	ļ			ļ	ļ			<del></del>
53		2485	IL 50/CICERO AVE & 94TH ST	OAK LAWN	95%			<b></b>	ļ	5%		·	<u> </u>	<b></b>		1	<del></del>
54		435	DELETED		ļ			<u> </u>	<del> </del>	<u></u>		······································		<b></b>	<u> </u>	<b></b>	
55		490	DELETED	<del></del>			·	ļ	<del> </del>				<u> </u>	<u> </u>	<b></b>	1	<del> </del>
56	14	481	US 12-US 20/95TH ST & KEELER AVE	OAK LAWN	95%	***************************************		L	J	5%	II		I	<u> </u>	<u></u>	1	<u> </u>

	PREPARED BY
21 85-1	CEMCON, Led.
	Consulting Engineers, Land Surveyors & Planners
\\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2280 White Oak Circle, Suite 100 Aurord, Illinois 60504-9675
(* <b>*</b> )	Ph: 630.862.2100 Fax: 630.862.2199
\/	E-Meil: oeddocencon.com Website: www.cemcon.c

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FILE NAME *	USER NAME = JGC	DESIGNED	-	8PT	REVISED	-
\MICR0\$1\352187\		DRAWN	-	RDS/JGC	REVISED	•
04-SUMMARY.DGN	PLOT SCALE : NOT TO SCALE	CHECKED		SPT	REVISED	-
<u> </u>	PLOT DATE * X	DATE	-	XX-XX-13	REVISED	•

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

	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	VAR.	2013-035TS	COOK	93	4
			CONTRAC	T NO. E	OW81
-	EED 80	AD DIST, NO. THE INCIS FED. 4	to PROJECT		

				SUM	MARY OF QL	JANTITIES HEA	DING LEGEN	D			<del>v.·····</del>	<del></del>	·····	······································	***		<del></del>
				-	FUNDI	NG PARTICIPA	TION	-				<del></del>	<del></del>	· · · · · · · · · · · · · · · · · · ·		<del></del>	
LOCATION	COLUMN	TS #	INTERSECTION	MUNICIPALITY	STATE	BRIDGEVIEW	BURBANK	SUMMIT	HICKORY HILLS	OAK LAWN	EVERGREEN PARK	WORTH	CHICAGO RIDGE	CHICAGO	STICKNEY TWP	CENTRO PROPERTIES GROUP	SCOTTSDAL
57	14	495	US 12-US 20/95TH ST & K-MART SHOPPING CENTER	OAK LAWN	95%				<b> </b>	5%						<del></del>	<del>                                     </del>
58	15	12035	CRAWFORD AVE/PULASKI RD 2 93RD ST	OAK LAWN	95%				<del> </del>	2.5%	2.5%		<del>                                     </del>				<del> </del>
59	15	4885	CRAWFORD AVE/PULASKI RD @ 99TH ST	OAK LAWN	95%	1			1	2, 5%	2.5%	<del></del>	1.	1			<del> </del>
60	14	2490	IL 50/CICERO AVE & 99TH ST	OAK LAWN	95%				1	5%			1	<u> </u>		·	<del> </del>
61	4	2495	IL 50/CICERO AVE @ 103RD ST	OAK LAWN	97.5%				1	2. 5%	1			<del> </del>			
62	1.4	21015	IL 50/CICERO AVE & 105TH ST	OAK LAWN	95%				T	5%		''	<u> </u>	<del>                                     </del>		-	<del> </del>
63	14	2500	IL 50/CICERO AVE @ 107TH ST	OAK LAWN	95%	<u> </u>		·····	<del></del>	5%	1	<del></del>					<del></del>
64	14	2505	IL SO/CICERO AVE & 110TH ST	OAK LAWN	95%		Y		l	5%			<u> </u>	<del>                                     </del>		ļ	<u> </u>
65	14	2512	111TH ST @ JODAN DR / LARAMIE AVE	OAK LAWN	95%				<u> </u>	5%			1				
66	14	12135	111TH ST & KOSTNER AVE	OAK LAWN	95%	1			İ	5%							
67	19	9335	CRAWFORD AVE/PULASKI RD @ 107TH ST	OAK LAWN	90%				1	5%				5%			
68	4	3925	CRAWFORD AVE/PULASKI RD & 103RD ST	OAK LAWN	97.5%					2.5%		·····	***************************************				
69		3910	DELETED														
70	16	11855	KEDZIE AVE @ 91ST ST	EVERGREEN PARK	95%						5%	······································					
71		11853	DELETED						-			····	1	1.0			
72	16	11850	KEDZIE AVE @ 99TH ST	EVERGREEN PARK	95%						5%						-
73		3930	DELETED									***************************************					
74		5855	DELETED								1		<del></del>			[	
75	1	535	DELETED		100%												
76	6	5860	WESTERN AVE @ 98TH ST	EVERGREEN PARK	96. 7%						3. 3%				······································		
77	16	5865	WESTERN AVE & 99TH ST	EVERGREEN PARK	95%			-			5%	· ,	1				
78	1	480	US 12-US 20/95TH ST @ CRAWFORD AVE/PULASKI RD	EVERGREEN PARK	100%						1	·····					
79	16	500	US 12-US 20/95TH ST & MILLARD AVE	EVERGREEN PARK	95%						5%						
80	16	540	US 12-US 20/95TH ST & HOMAN AVE	EVERGREEN PARK	95%						5%	***************************************					
.81		485	DELETED									<del></del>					
82	16	11790	US 12-US 20/95TH ST & UTICA AVE	EVERGREEN PARK	95%						5%					[	
83	16	11785	US 12-US 20/95TH ST & CALIFORNIA AVE	EVERGREEN PARK	95%						5%		l .			1	[
84	16	460	US 12-US 20/95TH ST & CAMPBELL AVE	EVERGREEN PARK	95%						5%						
85	18	3935	IL 7 SOUTHWEST HWY & 103RD ST/VIRGINIA L SIEGEL MEMORIAL DR	WORTH	95%								5%			i	
86	1	1890	IL 7 SOUTHWEST HWY & IL 43 HARLEM AVE	WORTH	100%												
87	17	8770	111TH ST @ OKETO AVE	WORTH	95%					-		5%					
88	1	2210	111TH ST & IL 43 HARLEM AVE	WORTH	100%						-	····	1	2			į
89	17	8775	111TH ST @ OAK PARK AVE	WORTH	95%							5%					1
90	17	2215	IL 43/HARLEM AVE @ 115TH ST	WORTH	95%							5%					j
						T				1			1		<del></del>		ſ

į		PREPARED BY:
		CEMCON, Ltd. Consulting Engineers. Land Surveyors & Planners 2280 White Oct Cirols, Suits 100
1	. W	Aurora, Illinois 60504-9675 fh: 630.862.2100 fax: 630.862.2199 E-Well: ggddBoemaan.com Webalte: www.comcon.co

	USER NAME * JGC	DESIGNED	-	BPT	REVISED -
\MICROST\352\87\		DRAWN	-	RDS/JGC	REVISED -
05-SUMMARY.DGN	PLOT SCALE = NOT TO SCALE	CHECKED	-	8PT	REVISEO -
	PLOY DAYE * X	DATE	~	XX~XX-13	REVISED -

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Et 1"≈20°	SHEET NO.	OF	SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2013-035TS	COOK	93	5
		CONTRACT	NO. 6	OW81
FED. RO	AD DIST. NO. ILLINOIS FED. A	ID PROJECT	~~~~	

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CODE			TOTAL							TF	RAFF	IC S	IGN	AL						
NUMBER	ITEM	UNIT	QUANTITY								(	JRBA	N							
																			- a-ra-drawwania	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4																
						-														
67100100	MOBILIZATION	L SUM	1	1		***************************************									-	-			and the second second	
		A CONTRACTOR OF THE CONTRACTOR																	***************************************	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	. 1	***	***************************************															
							***													
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	75	17	1	1	2 1	1	10	1	1	3	4	1	1	16	2	8 3	3 1	1 1
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4	1												3				
								***					-				-			
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	12	2		-			1							8			1	
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	23	6				1	2							8		2	2	2
									-									The state of the s		***************************************
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	122	20				1	21		1	2	4	2	4	31	10	18 (	6	2
																		***************************************		
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	85	10	***************************************			3	18	4	i		2	2	2	17	10	5 5	5	6
																***************************************				
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	2	2		***************************************	***************************************													- The state of the
						***************************************														
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	32	8				1	9			2			2	2		6 2	2	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	84	13				1	22	2	1	2	2	2	2	19	2	10 4	4	2
														- Average Aver						
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	26	3					9	2				-		7		3 2	2	
						***************************************											-			
88030220	SIGNAL HEAD, LED, 2-FACE, 5 SECTION, BRACKET MOUNTED	EACH	10	4					2		2					2				
					-									-					1	

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CEMCON, Led.
Consulting Engineers, Lend Surveyors & Planners
2280 While Out Cirole, Sulter Out
Aurora, Hilhols 60504-9675
Ph. 630.682.2100 Fax: 630.682.2159
E-Wall's caddoomoop.com Website's www.cemoon.com

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\MICROST\352107\	
VMICROST\352187\ O6-SUMMARY,D	GN
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USER NAME = JGC	DESIGNED -	8PT	REVISED -
·	DRAWN -	RDS/JGC	REVISED -
PLOT SCALE = NOT TO SCALE	CHECKED -	<b>BPT</b>	REVISEO -
PLOT DATE . X	DATE -	XX-XX-13	REVISED -

STAT	E OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

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

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	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
	VAR.	2013-035TS	COOK	93	6
_			CONTRACT	NO. €	OW81
	FFD. 80	AD DIST. NO. ILLI DIOLS FED. AT	O PROJECT		

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CODE			**************************************	TOTAL			,				TR,	AFFI	c s	IGNAL	<del></del>				<del>,</del>		
NUMBER	ITEM		UNIT	QUANTITY							·····	U	RBAN	l .							
		<u></u>		]			T										***************************************				
88030230	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	· · · · · · · · · · · · · · · · · · ·	EACH	2	2											1					
													***************************************							-	
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED		EACH	50	2				2	13	2		4	2		15	2	4	2		2
																		***************************************		***************************************	
88030315	SIGNAL HEAD, LED, 3-FACE, 5-SECTION, BRACKET MOUNTED		EACH	1	1																
							-		-	-											
88030320	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION, BRACKET MOUNTED		EACH	1	1					-										***************************************	
											_										
88030330	SIGNAL HEAD, LED. 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED		EACH	5						***************************************		1			2	2				-	
				*											***************************************		<u> </u>				
88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM M	MOUNTED	EACH	4											***************************************					4	
			-							***************************************											
88055190	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MC	DUNTED	EACH	2	-							-							***************************************	2	
							***************************************					-							***************************************		
88055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM N	MOUNTED	EACH	4		and the second second											***************************************		-	4	
					-	-													***************************************		
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN	TIMER	EACH	174	32	6 2	2	2	2	26	2	2	10	10		44	10	14	8		2
		-		4 + + + + + + + + + + + + + + + + + + +		***************************************							***************************************		-						
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN	TIMER	EACH	68	22	1	3	***************************************		3			-	4	***	15	2	17			1
			Waterpress						-	-					***************************************						
88102757	PEDESTRIAN SIGNAL HEAD, LED. 3-FACE, BRACKET MOUNTED WITH COUNTDOWN	TIMER	EACH	6	6																
															***************************************						
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM		EACH	216	35				2	43	2	2	4	6	4 6	50	12	28	10	8	4
88800100	PEDESTRIAN PUSH-BUTTON		EACH	204	48	8 4	8	2	2	16	2	2	10	12		56	14	8	8		4
							1	***************************************													
89500100	RELOCATE EXISTING SIGNAL HEAD		EACH	12	12			***************************************								***************************************			***************************************		
				A STATE OF THE STA													-		-		
89502210	MODIFY EXISTING CONTROLLER CABINET		EACH	69	17	1 1	1	1	1	10	1	1	2	4	1   1	12	2	8	3	1	1
			-	- Company	-																
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PREPAREO BY.

CEMCON, Ltd.

Consulting Engineers. Land Surveyors & Planners
2280 White Oak Circles Suite 100
Arrors 0.682.2100 Part 953 852.2199
E-Wallo Caddocomon.com Webalter www.oemcon.com

	FILE NAME *	USER NAME . JGC	DESIGNED -	BPT	REVISED -	
	\MICROST\352187\		DRAWN -	RDS/JGC	REVISED -	]
	07-SUMMARY.DGN	PLOT SCALE = NOT TO SCALE	CHECKED -	BPT	REVISED -	
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DEPARTMENT	OF	TRANSPORTATION

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SCALE: 1"=20"	SHEET NO.	0F	SHEETS STA.	TO STA.

 F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2013-035TS	COOK	93	7
		CONTRACT	NO. 6	OW81
 FED. RC	DAD DIST. NO. ILLINOIS FED. A	D PROJECT		

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CODE		154177	TOTAL				-				TRAF	~	<del></del>	NAL		<del></del>				
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			BOARD COLUMN SECURITY COLUMN S	ļ				_		_	-	-	-	-		_			_	$\perp$
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	70	15	1	1	2	1	1 !	) 1	1	3	4	1	1 1	5   3	2 7	3	1	+
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	69	17	1	1	1	1	1 1	0 1	1	1 2	-	1	1 1	2	2 8	3	1	+
X8620200	UNINTERRUPTABLE FOWER SUFFCT, SPECIAL			+				+	+	+	+	-	-	1		- 1 3	+	,		+
X8880015	PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	110	26			5	_	1	1	-	6	4		3	5	23			t
		***************************************	AND THE PROPERTY OF THE PROPER						- 1											
X8803040	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	15	6				1		_	_	1	1			2	4		-	1
				-				+	-		-			***************************************	***************************************		***************************************		-	-
X8803060	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2	<del> </del>				1	***************************************	+	+	1	-	-		+	-			-
X8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	23	8	1			2		2	-	1	5	***************************************		-	4		***************************************	***************************************
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X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	57	18	3			3	- 1	4		6	8			2	13			
		· · · · · · · · · · · · · · · · · · ·															***************************************			
X8803086	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	8	<u> </u>								<u></u>	-	-		_		8		-
		5100	7.4					_		,	-	_	┿			5	7			+
X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	34	1 9	5			1		3	-	-	4	-		-				+
X8803090	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	3	1				-	-	-	+		-	<del></del>			2			+
			<u> </u>					$\top$	$\top$				1	<del>                                     </del>		1				+
X8803110	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2									2								
																			-	-
X8803210	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	13	1	1				-	3	_	1	3	-	***************************************	1	3			
X8803910	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED. RETROFIT	EACH	4	1	2				+		-		-			1				***************************************
70000010	WADIRCE HERDY ELDY & 1 NOLY O OLO 1 TONY DEPONDE HOUSE NEITHOF AT	~0010	,	╁	-			-	$\dashv$		-	-	+	-	***************************************	+	**************************************		-	***************************************
X8807665	SIGNAL HEAD, LED, 1-SECTION, POST MOUNTED, RETROFIT	EACH	4	4													-			-
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Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500	***************************************			***************************************							**************************************					-

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\MICROST\352187\		DRAWN	-	RDS/JGC
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 5 OF 5)

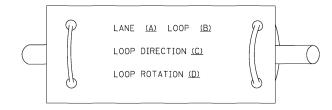
	,	REPARED BY:						
	CEMCON, Ltd. Consuiting Engineers. Lund Surveyers & Planners 2280 White Oat Cirole. Suite 100 Aurora, Ilihola 60504-9675 Ph: 630.862.2100 Fox: 630.862.2199 E-Well: coddocemeen.com Wabaite: www.cemcon.com							
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
VAR.	2013-035TS	COOK	93	8				
1		CANTOLO	T 110 0	AHIOA				

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS|FED. AID PROJECT NO. GOW81

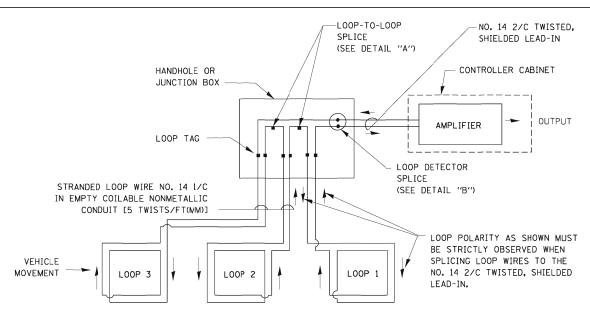
### LOOP DETECTOR NOTES

- 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

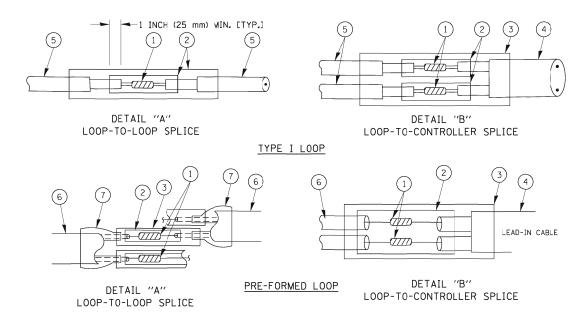


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



### 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

- $\ \, \ \, \ \,$  Western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP

STALF:

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

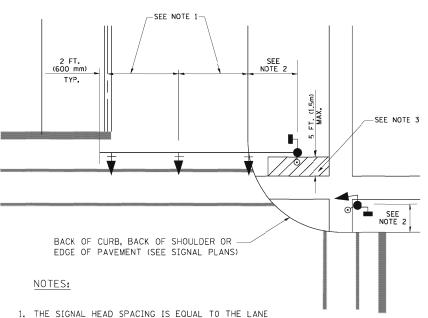
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	PLOT DATE = 10/6/2009	DATE -	10/28/09	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	0F	<b>TRANSPORTATION</b>

DISTRICT	ONF		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	
CANDARD TRAFFIC SIGN	VI DE	SIGN DETAILS	VAR.	2013-035TS	соок	93	9
	AL UL	JIGN DETAILS			CONTRACT	NO.	60W81
SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A	ID PROJECT		

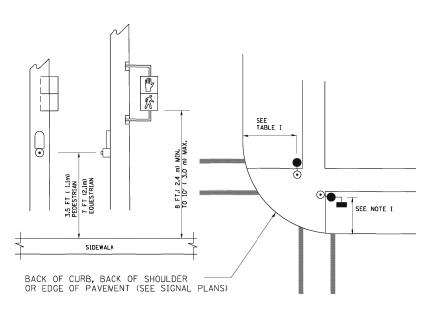
### TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



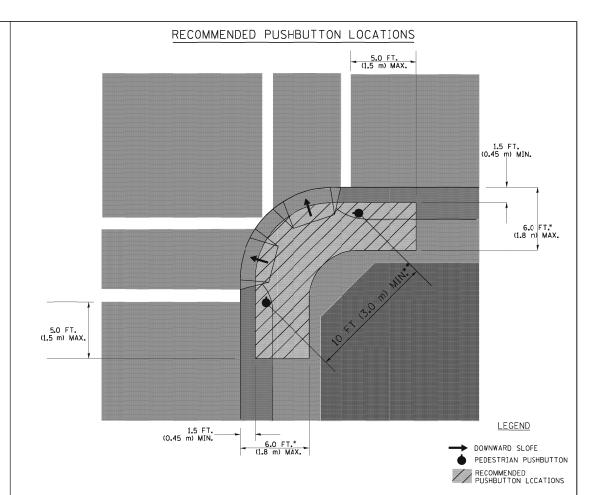
- . THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST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

# PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



### NOTES:

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



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- \*\* WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

### NOTES:

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

### TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1,2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1,2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

### NOTES:

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

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

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

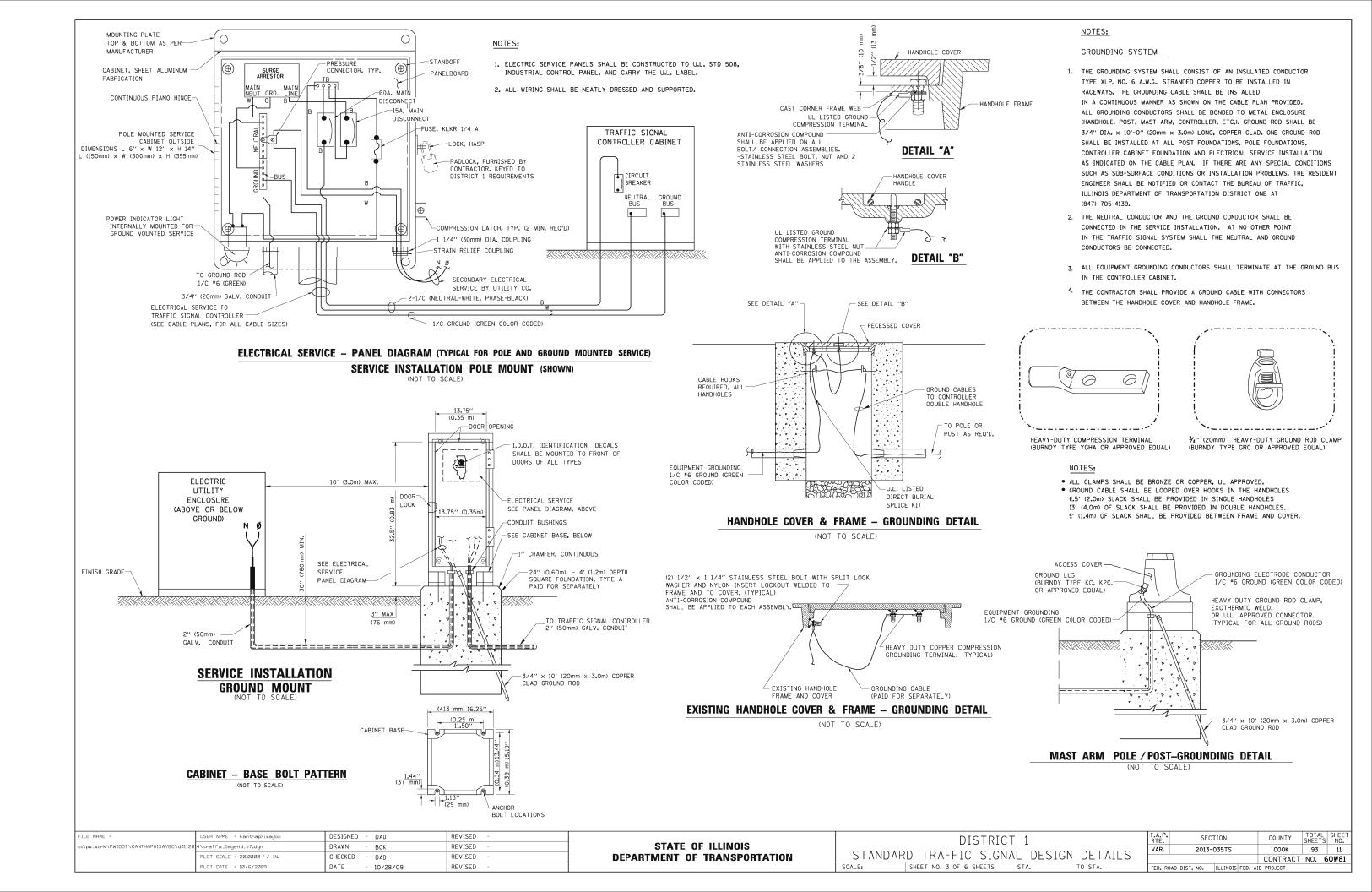
	DI	STRICT	1		F.A.P. RTE.	5	SECTION		
STANDARD	) TRAFFI	CICNIA	T DEC.	IGN DETAIL	C VAR.	20	13-035TS		
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SCALE:	SHEET NO. 2 OF	6 SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO	ILLINOIS	FED.	AID

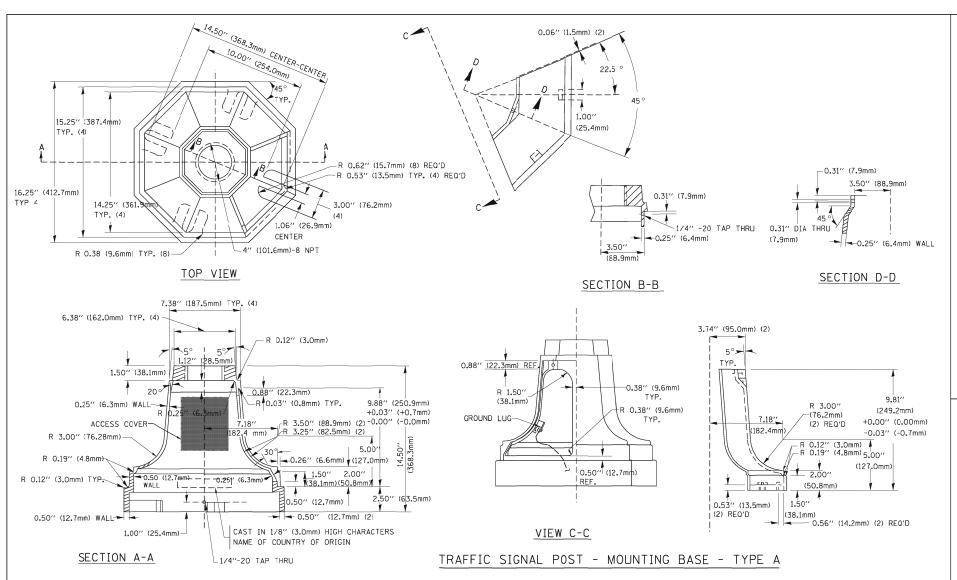
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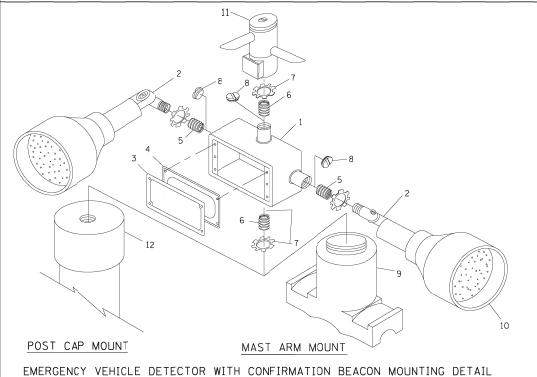
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CONTRACT NO. 60W81



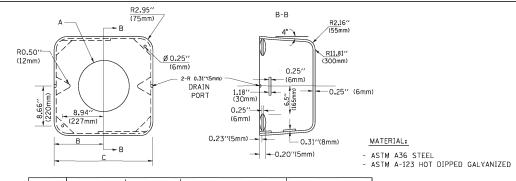




ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4''(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

### NOTES:

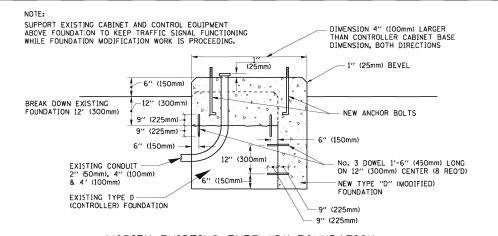
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM \*9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A  $\frac{3}{4}$ "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



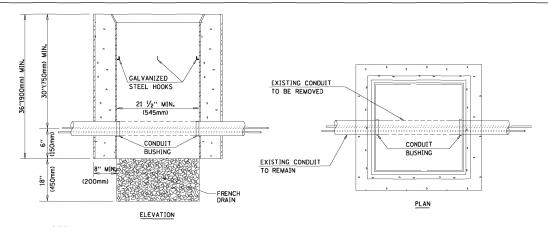
Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

### SHROUD

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



### MODIFY EXISTING TYPE "D" FOUNDATION

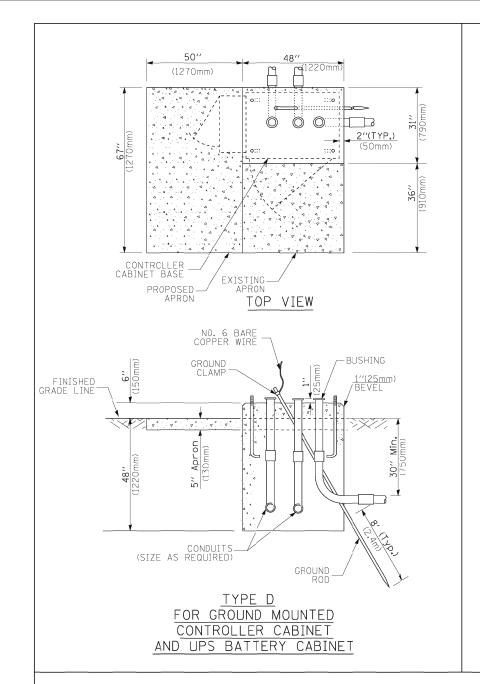


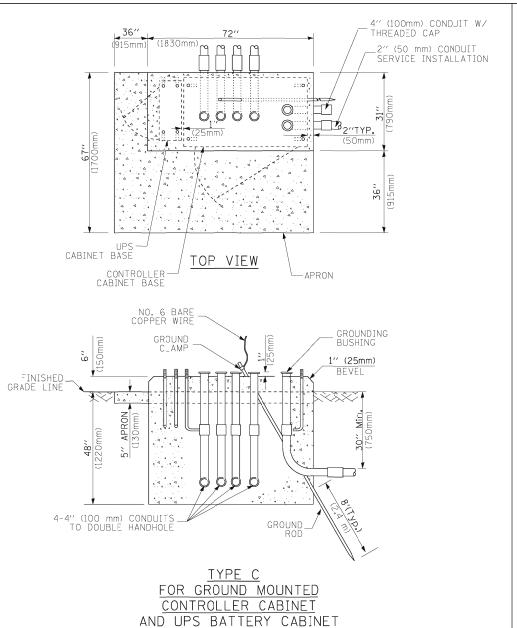
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

### HANDHOLE TO INTERCEPT EXISTING CONDUIT

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	PLDT SCALE = 20.0000 '/ IN.	CHECKED	- DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE	- 10/28/09	REVISED -

DISTRICT 1			F.A.P. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.		
STANDAR	D TRAFFIC	SIGNA	ΛΙ <sup>*</sup> DES:	IGN DETAILS	VAR.	2013-	035TS	COOK	93	12
	U INAFFIC	210114		IGN DETAILS				CONTRACT	NO.	60W81
SCALE:	SHEET NO. 4 OF 6	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FED.	AID PROJECT		





65" (SEE NOTE 4) (1651mm) 49" (SEE NOTE 3) 16" (406mm) (1118mm) (21/2" (25mm) 1" (225mm) 1" (225mm) 1" (225mm) 1" (25mm)
2" × 6" (51mm × 152mm) WOOD FRAMING (TYP.)
TRAFFIC SIGNAL CONTROL_ER CABINET  VPS CABINET  74" (19mm) TREATED PHYWOOD DECK
2" x 6" (E1mm x 152nm) TREATED WOOD
48" MIN (1219mm) (305mm)
NOTES:  6" x 6" (152mm x 152mm)  TREATED WOOD POSTS
BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).

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

### TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

### VERTICAL CABLE LENGTH

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

### DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	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:

- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation of dilling. 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.

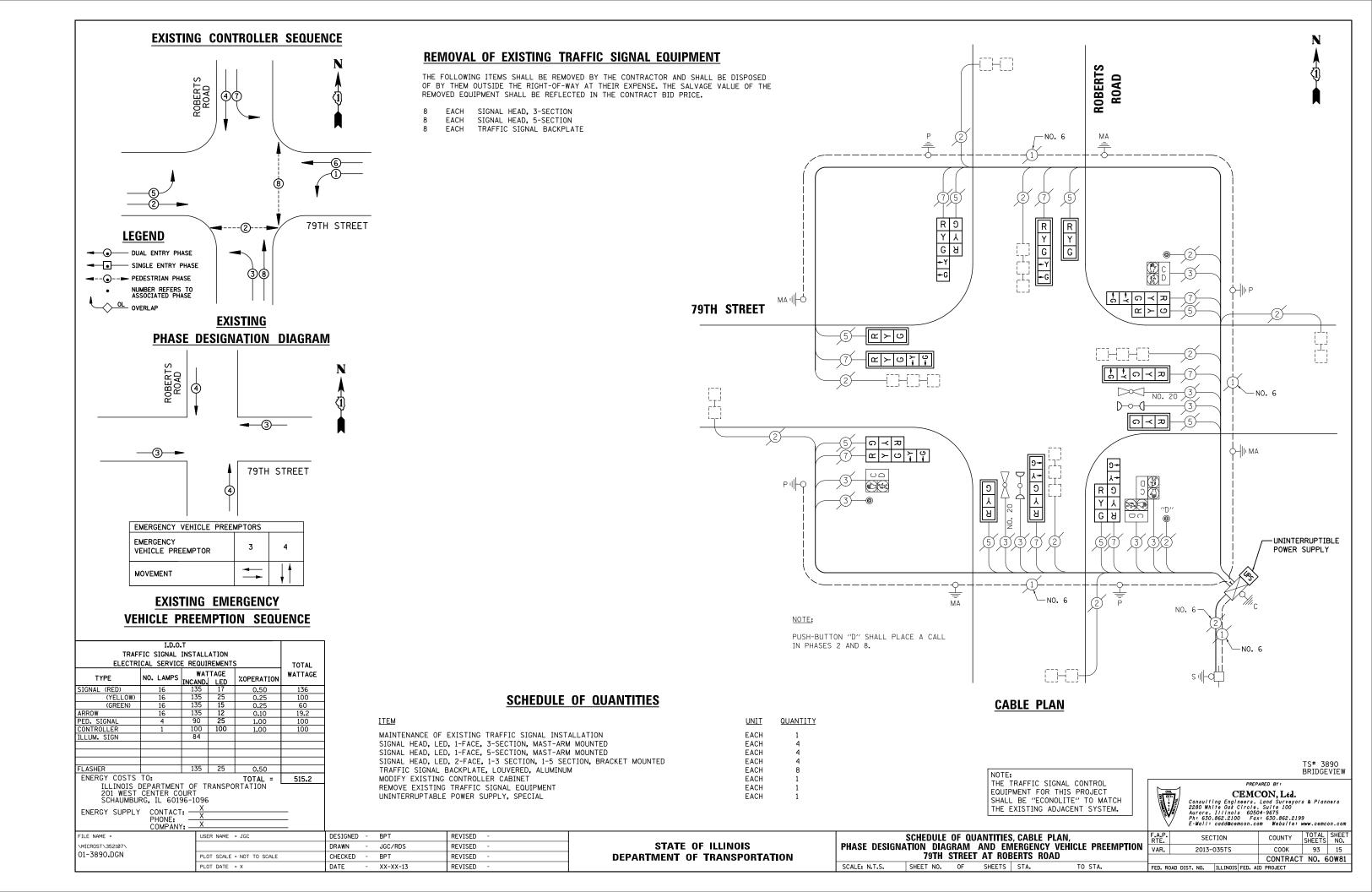
### DEPTH OF MAST ARM FOUNDATIONS, TYPE E

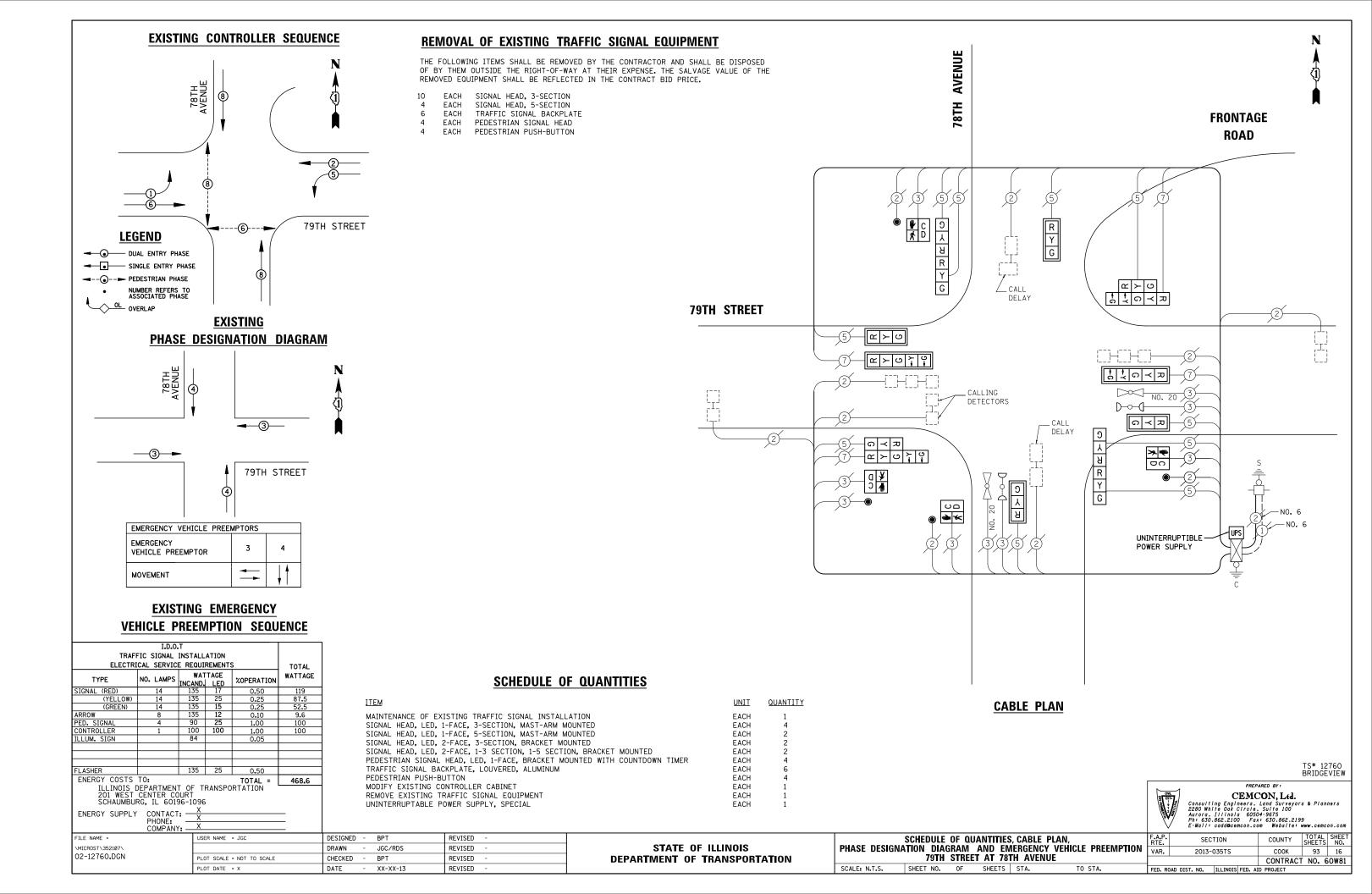
FILE NAME =	USER NAME = kanthaphixaybo	DESIGNED - DAG	REVISED -
c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d01126	4\traffic_legend_v7.dgn	DRAWN - BCC	REVISED -
	PLDT SCALE = 20.00000 '/ IN.	CHECKED - DAD	REVISED -
	PLDT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

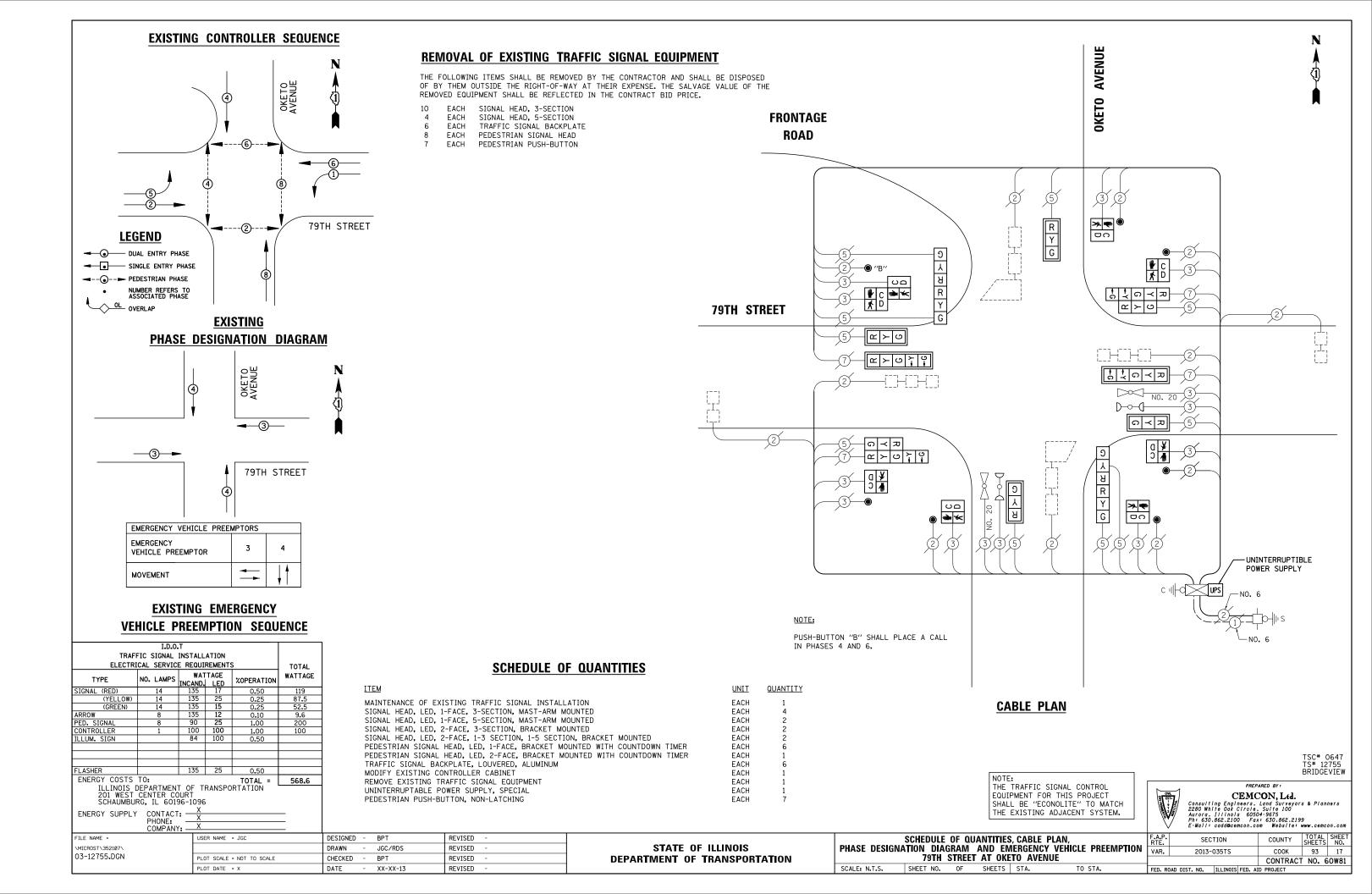
T		DISTRICT	1		F.A.P. RTE.	SEC	TION	COUNTY	TOTAL	SHEET NO.
l	STANDAF	VAR.	2013-	035TS	соок	93	13			
L	STANDARD TRAFFIC SIGNAL DESIGN DETAILS							CONTRACT	NO.	60W81
L	SCALE:	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO.	ILLINOIS FED. A	ID PROJECT		

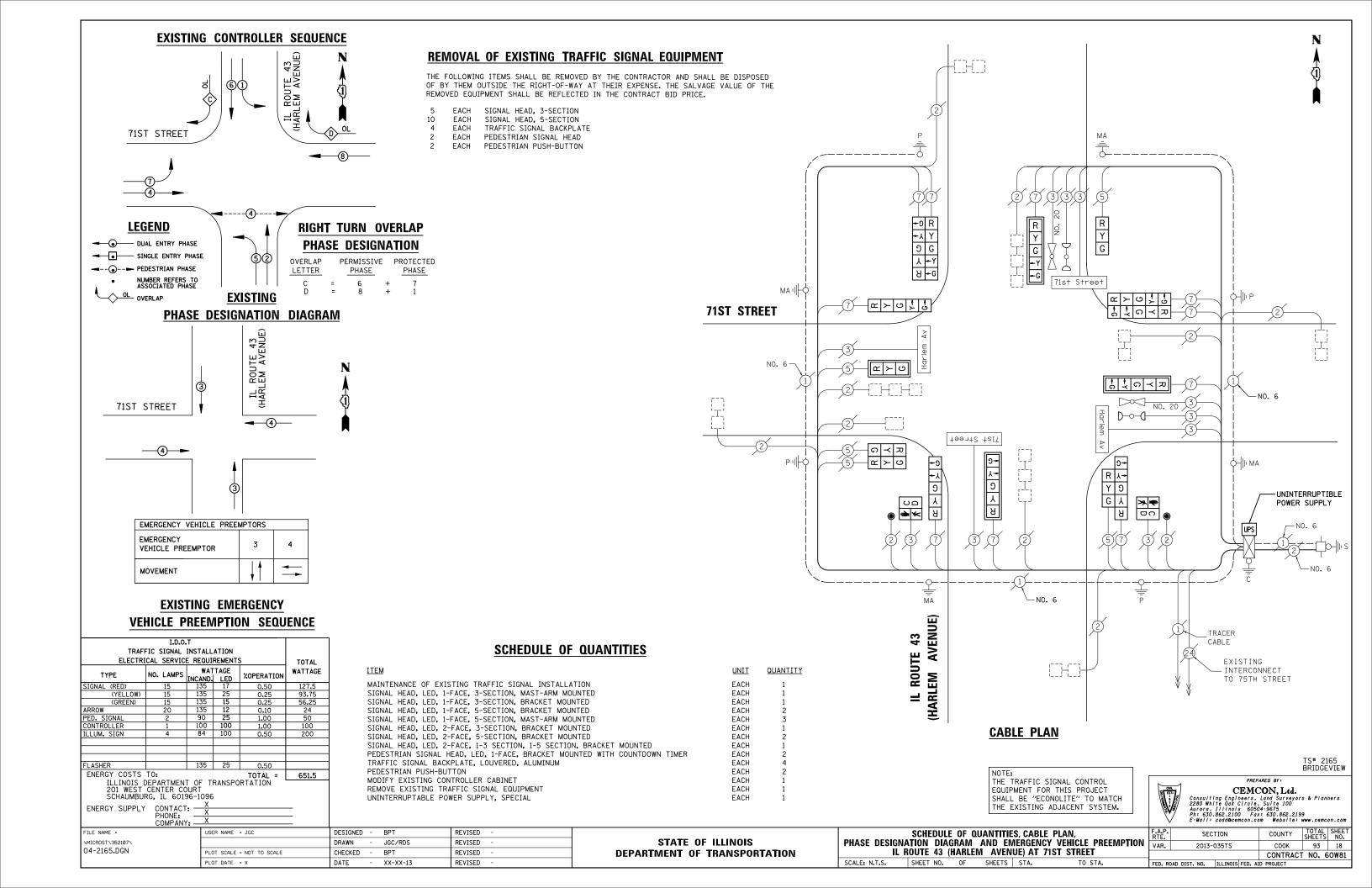
# TRAFFIC SIGNAL LEGEND

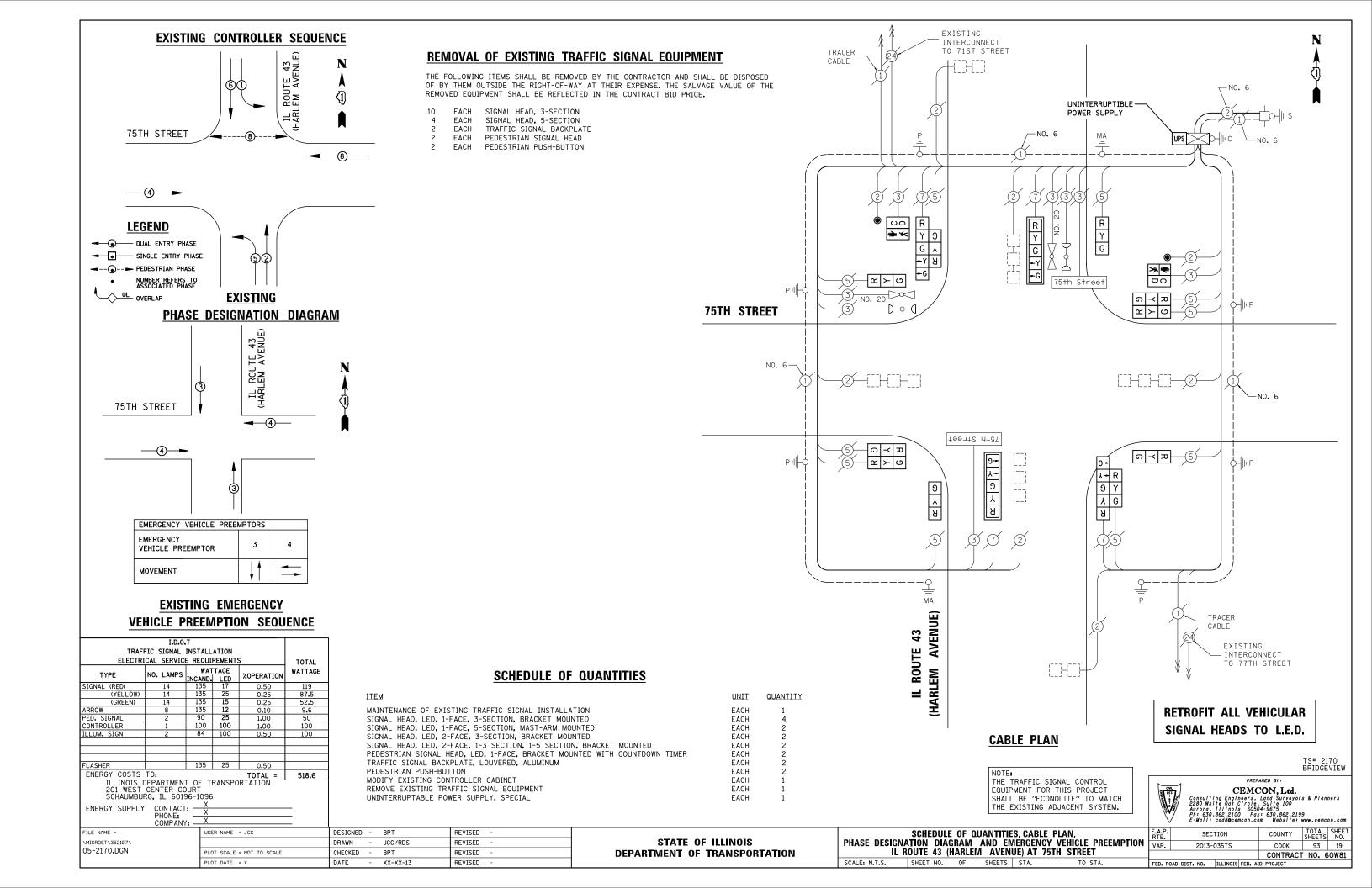
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	$\bowtie$ R	$\bowtie$		EMERGENCY VEHICLE LIGHT DETECTOR	R	$\bowtie$	•	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET		r I	<b>B</b> ►◆ <b>E</b>	CONFIRMATION BEACON	R <sub>0</sub> _(]	0—()	••	COAXIAL CABLE		K	<u> </u>
COMMUNICATIONS CABINET	CCR	E C C	СС	HANDHOLE	R			CUAXIAL CADLE			
MASTER CONTROLLER		EMC	MC	HEAVY BUTY HANDIGE	R	Н	H	VENDOR CABLE FOR CAMERA		_(v)_	(v)
MASTER MASTER CONTROLLER	R UPS	EMMC	MMC UPS	HEAVY DUTY HANDHOLE	R			COPPER INTERCONNECT CABLE,		-/	•
JNINTERRUPTIBLE POWER SUPPLY		EUPS		DOUBLE HANDHOLE  JUNCTION BOX	R		0	NO. 18 3 PAIR TWISTED, SHIELDED		<u>—</u> —	-6-
SERVICE INSTALLATION, P) POLE OR (G) GROUND WOUNT	- <u></u> -R	-□ <sup>-</sup> P	<b>-</b> ■P	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F		<u> </u>	
ELEPHONE CONNECTION P) POLE OR (G) GROUND MOUNT	R	P	P	TEMPORARY SPAN WIRE, TETHER WIRE,	_R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		— <u>24</u> F—	-(24F)-
TEEL MAST ARM ASSEMBLY AND POLE	R O	O	•	AND CABLE				FIBER OPTIC CABLE NO. 62.5/125,			
LUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		<del>-</del>	——
STEEL COMBINATION MAST ARM NSSEMBLY AND POLE WITH LUMINAIRE	<sup>R</sup> O-₩	O-X	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		S	CNC S	GROUND ROD AT (C) CONTROLLER,		С .,	Cu
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PīZþ	PTZ	PTZ	INTERSECTION ITEM		I	IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		c ∥⊢⊸	<sup>c</sup> ı   <b>→</b>
IGNAL POST	R	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
EMPORARY WOOD POLE (CLASS 5 OR	R⊗	$\otimes$	•	RELOCATE ITEM	RL						
SETTER) 45 FOOT (13.7m) MINIMUM				ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	O-RMF		
UY WIRE	R	>	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND	RMF		
IGNAL HEAD	$\stackrel{\sim}{\Rightarrow}$	>	-	12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED	0		
IGNAL HEAD CONSTRUCTION STAGES NUMBERS INDICATE THE CONSTRUCTION STAGE)			<b>→</b> <sup>2</sup>	YELLOW AND GREEN TRAFFIC SIGNAL FACE			R	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF O– <del>)</del> X———		
IGNAL HEAD WITH BACKPLATE	+DR	+>	+-			(Y)	Y				
IGNAL HEAD OPTICALLY PROGRAMMED	R →>′′P′′	—(>′′P′′	<b>→</b> "P"	SIGNAL FACE		G	G ◆Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF O		
LASHER INSTALLATION S DENOTES SOLAR POWEF)	R O- <b>⊳</b> "F"	O-t>"F"	<b>●</b> ►″F″			<b>↓</b> G	<b></b> G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	IS
EDESTRIAN SIGNAL HEAD	R -	-0	4			R	R	SAMPLING (SYSTEM) DETECTOR		[ <u>s</u> ]	S
PEDESTRIAN PUSHBUTTON DETECTOR	R ©	<b>©</b>	<b>©</b>	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			G	EXISTING INTERSECTION LCOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	A.P.		
CCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS					<b>◆</b> Y <b>◆</b> G		UK		
LLUMINATED SIGN	R					''P''	"P"	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	0R	ÎPPÎ	
'NO LEFT TURN''		•	•	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		O W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
LLUMINATED SIGN NO RIGHT TURN''				12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		₽-T PS	PS
ETECTOR LOOP, TYPE I				INTERNATIONAL SYMBOL, OUTLINED						P	<u> </u>
PREFORMED DETECTOR LOOP		g a	P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			*	RAILROAD	SYMRO	2.10	
	R	↓ P ↓	•	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL				HAILHOAD	OTIVIDU	LU	
MICROWAVE VEHICLE SENSOR	Mþ	M	M	SYMBOL, WITH COUNTDOWN TIMER			<b>₽</b> C <b>★</b> D			EXISTING	PROPOSED
/IDEO DETECTION CAMERA	R [V]1		<b>Û</b>	RADIO INTERCONNECT	## <del>*</del> O	##+		RAILROAD CONTROL CABINET		R R	R R
/IDEO DETECTION ZONE				RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	×	XOX X	XXXX
PAN, TILT, ZOOM CAMERA	R PTZ 1	PZ	₽TZ <b>I</b>	DENOTES NUMBER OF CONDUCTORS, ELECTRIC				FLASHING SIGNAL		$X \ominus X$	XOX
WIRELESS DETECTOR SENSOR	RW	<b>(W)</b>	W	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED	D	(5)		CROSSING GATE		<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	XOX
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	(1)	CROSSBUCK		*	*
: NAME = USER NAME = kanthaphixa; w_work\PWIDOT\KANTHAPHIXAYBC\d01126 4\traffic_legend_v7,dgn PLOT SCALE = 28,0000 '/ 1		DESIGNED - DAG/BCK DRAWN - BCK CHECKED - DAD	REVISED REVISED REVISED	STA' DEPARTMEN'	TE OF ILLINOI			DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL	F.A.P. RTE. VAR.	SECTION 2013-035TS	COUNTY TOTAL SHEETS COOK 93 CONTRACT NO.

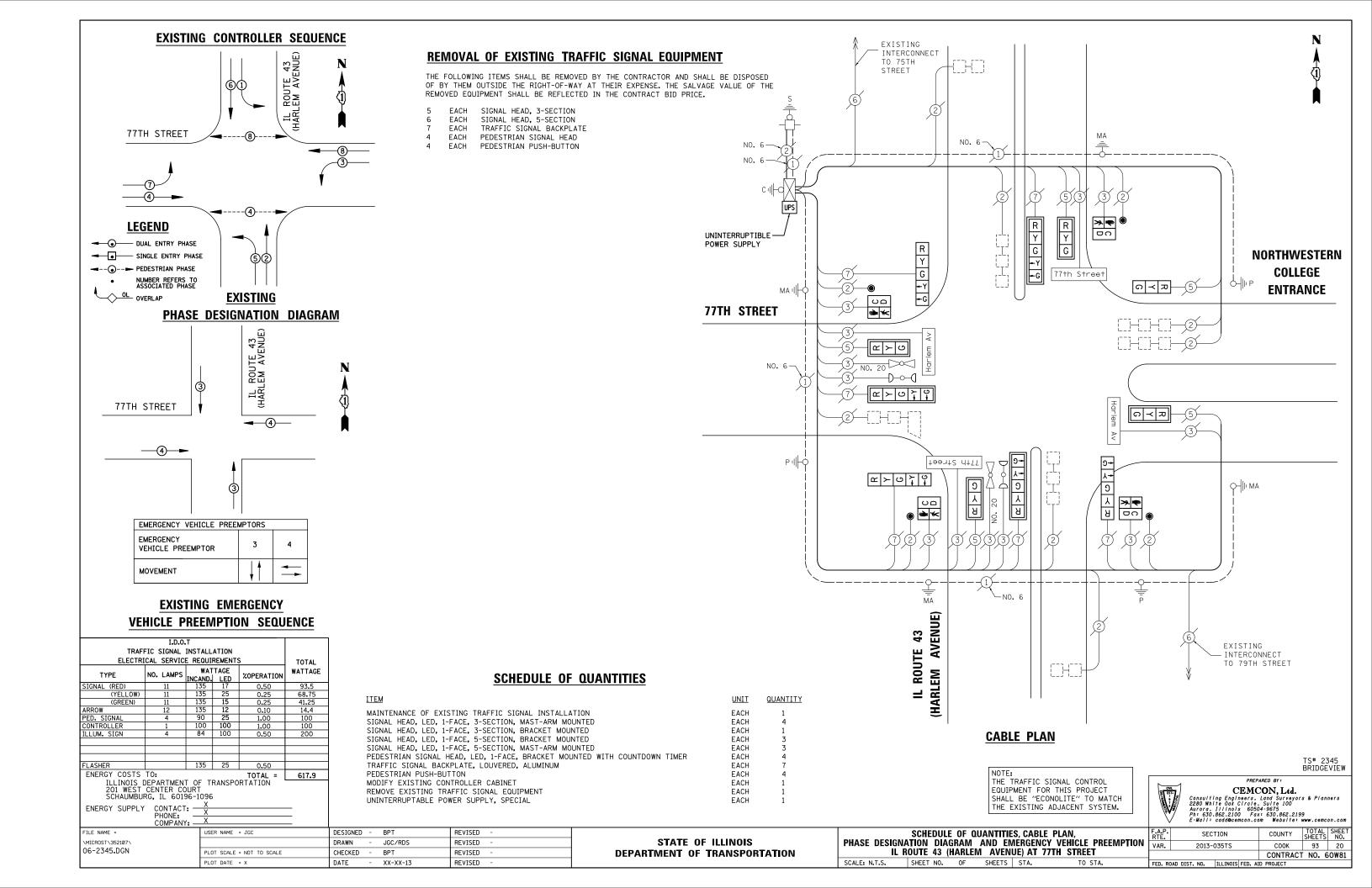


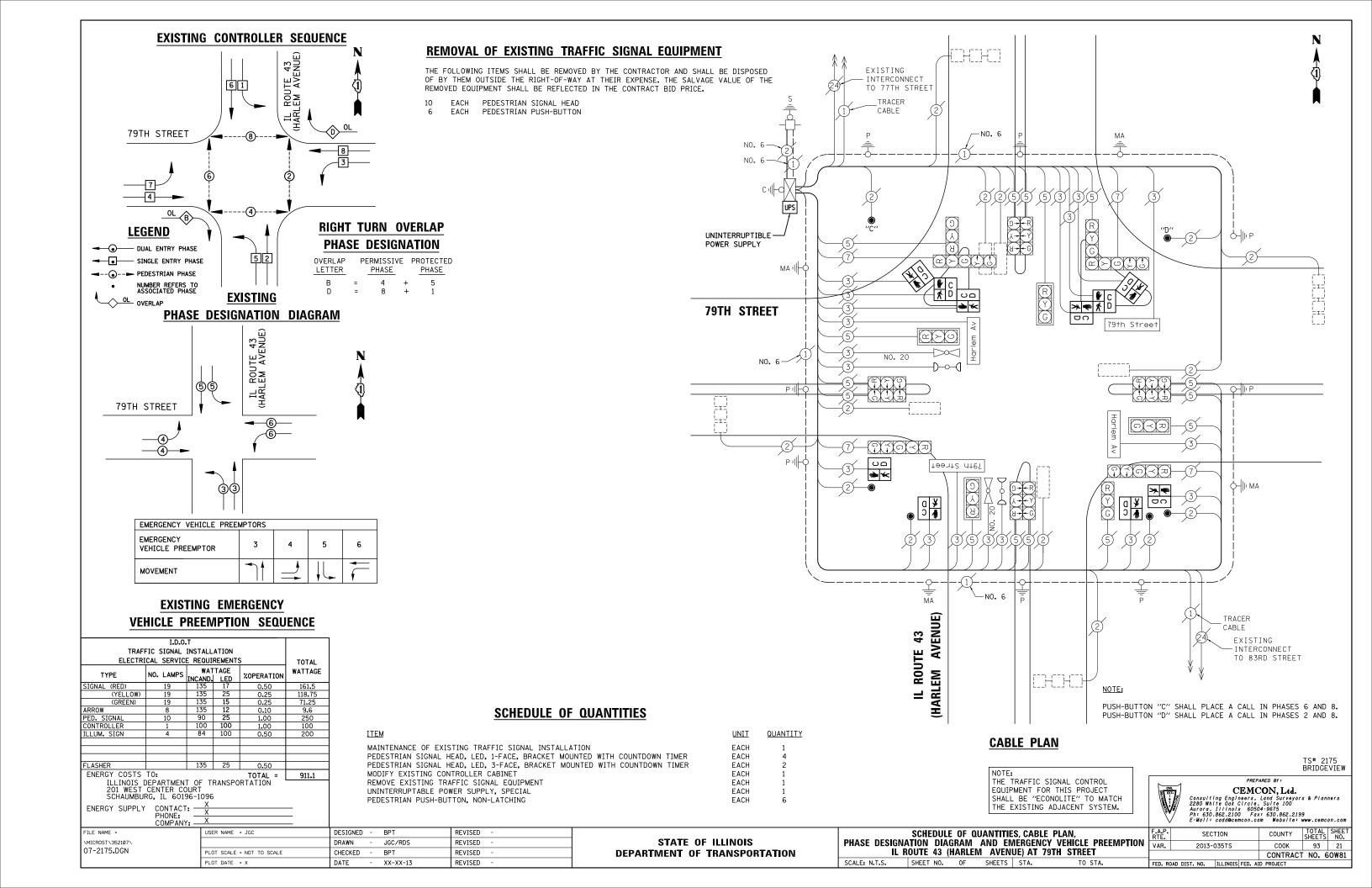


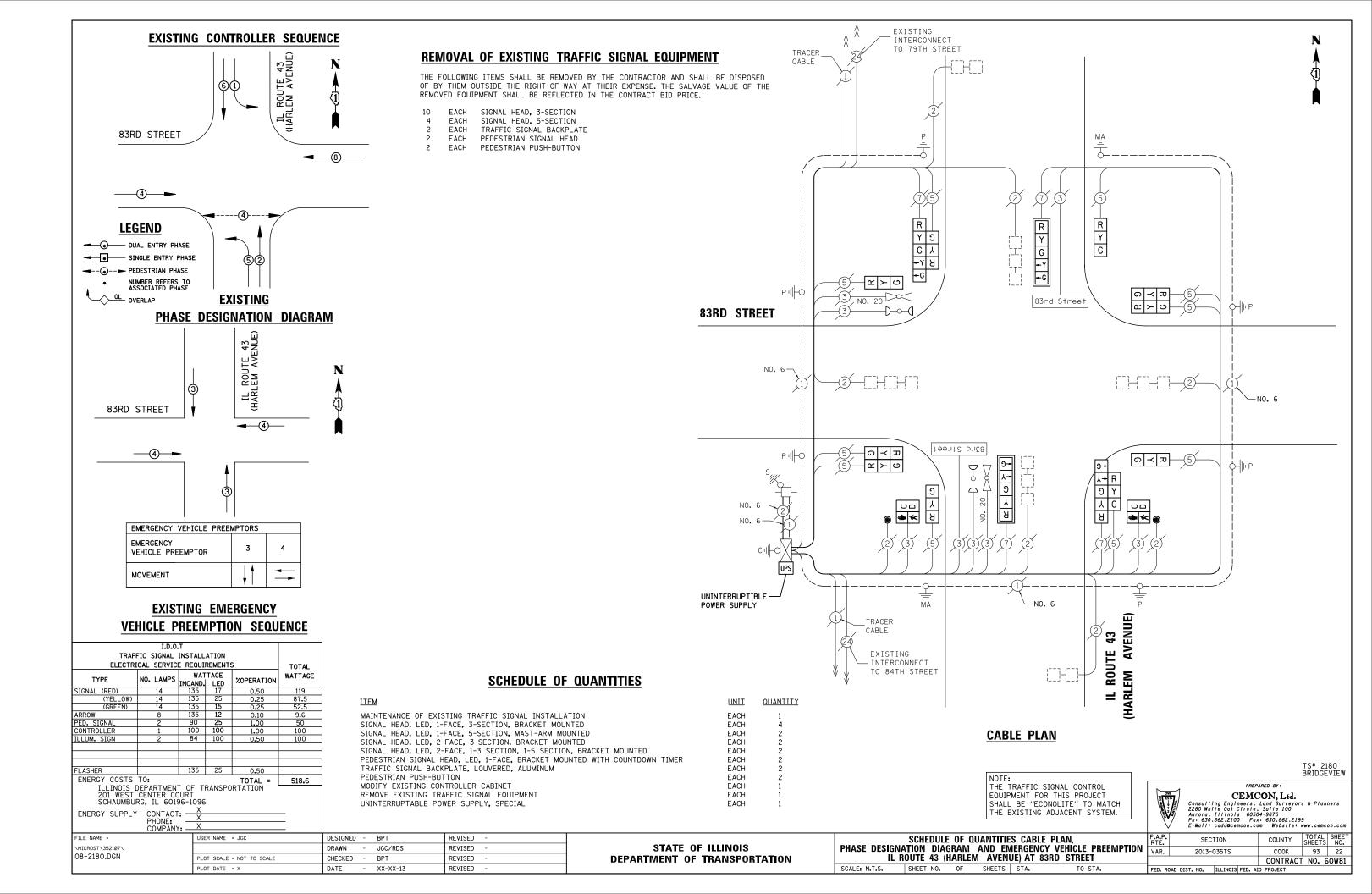


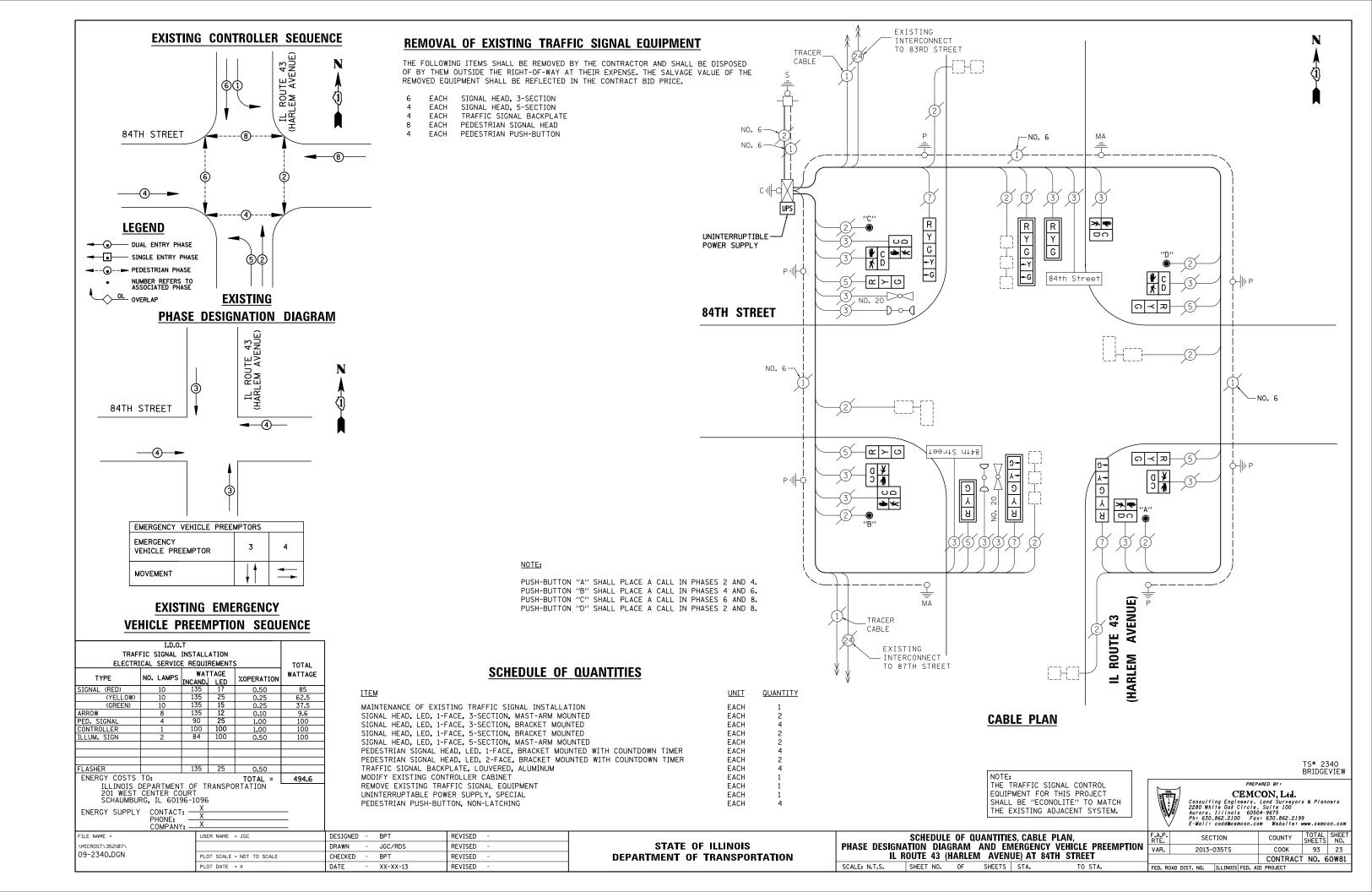


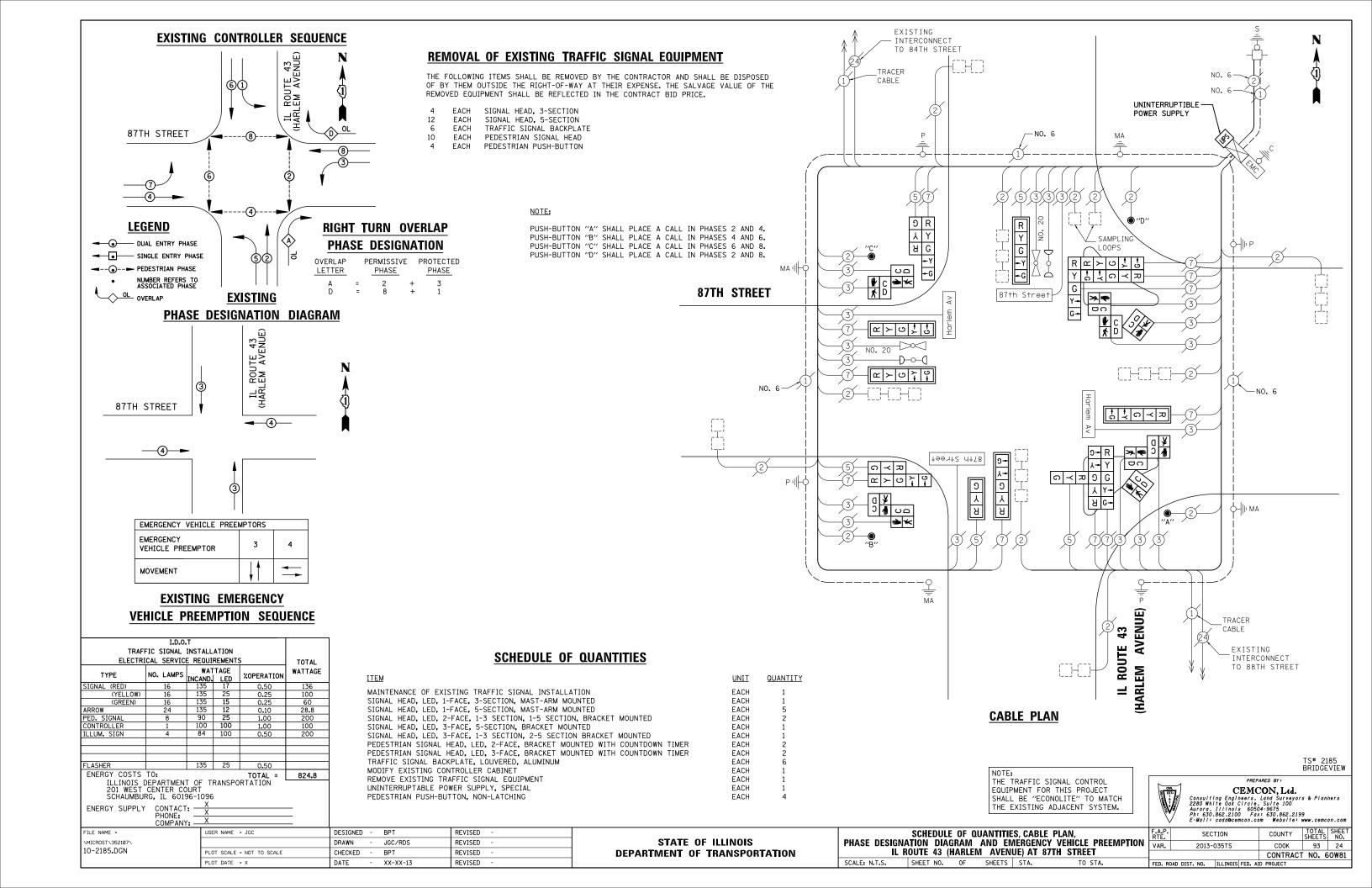


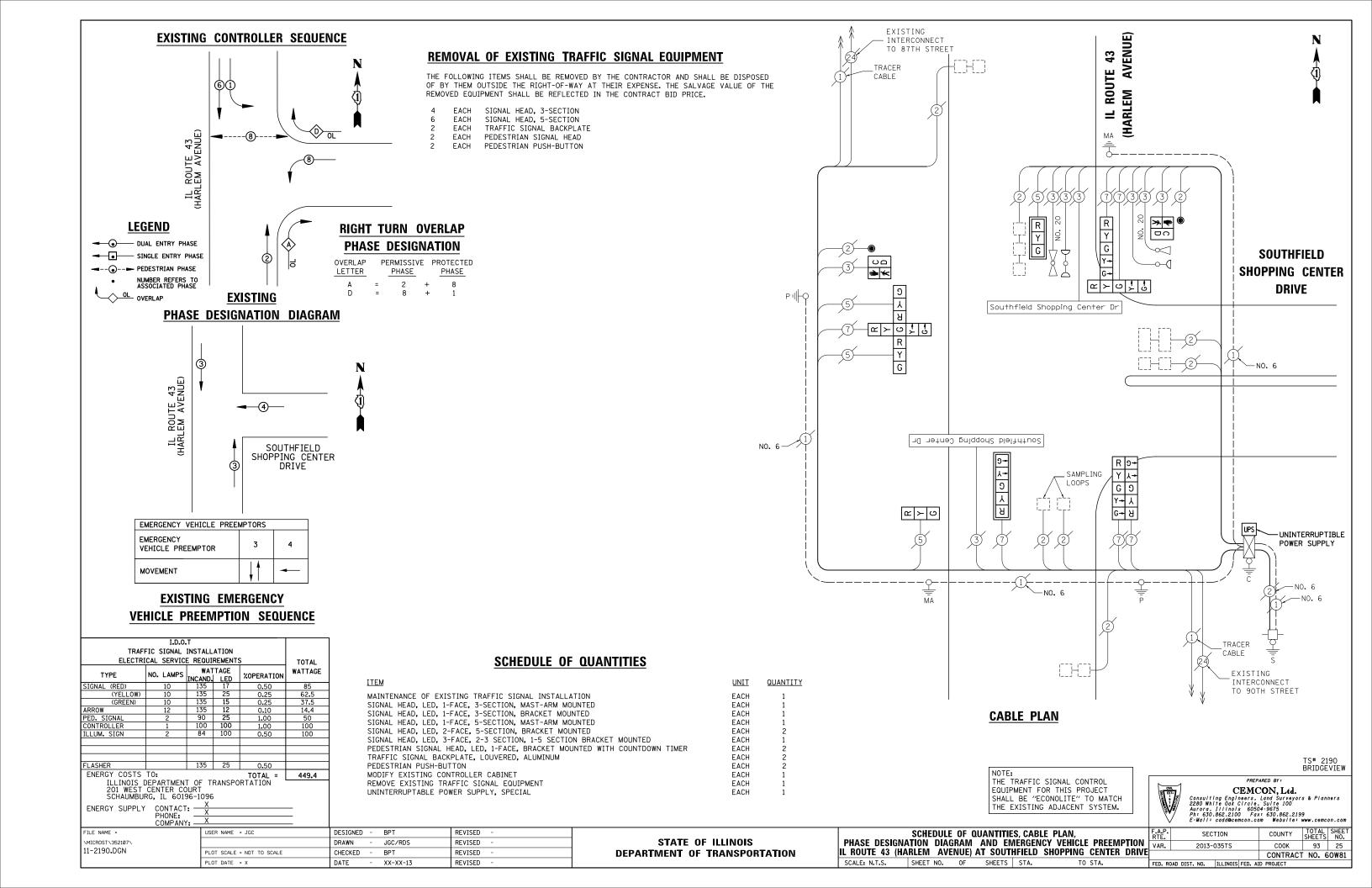


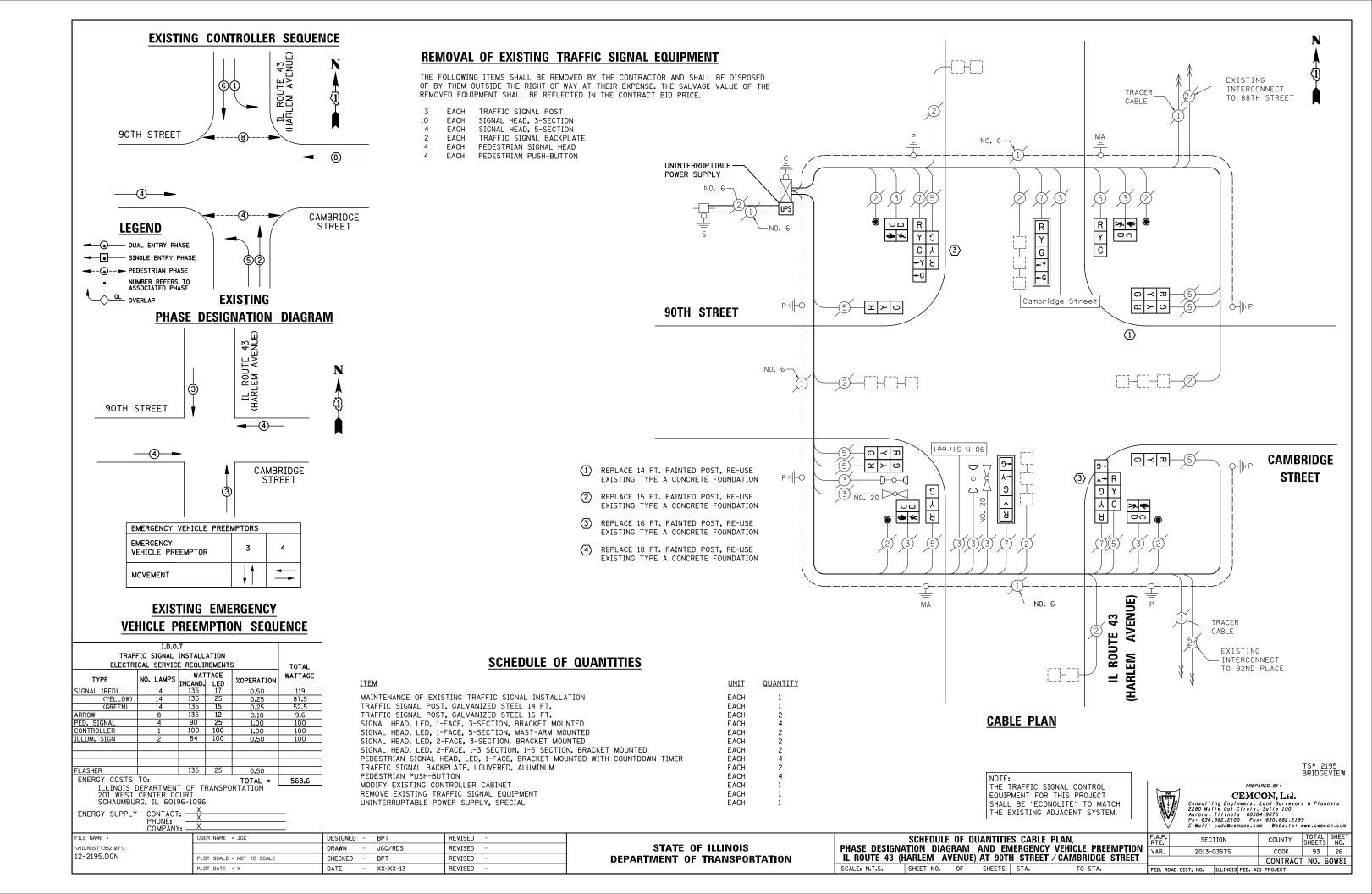


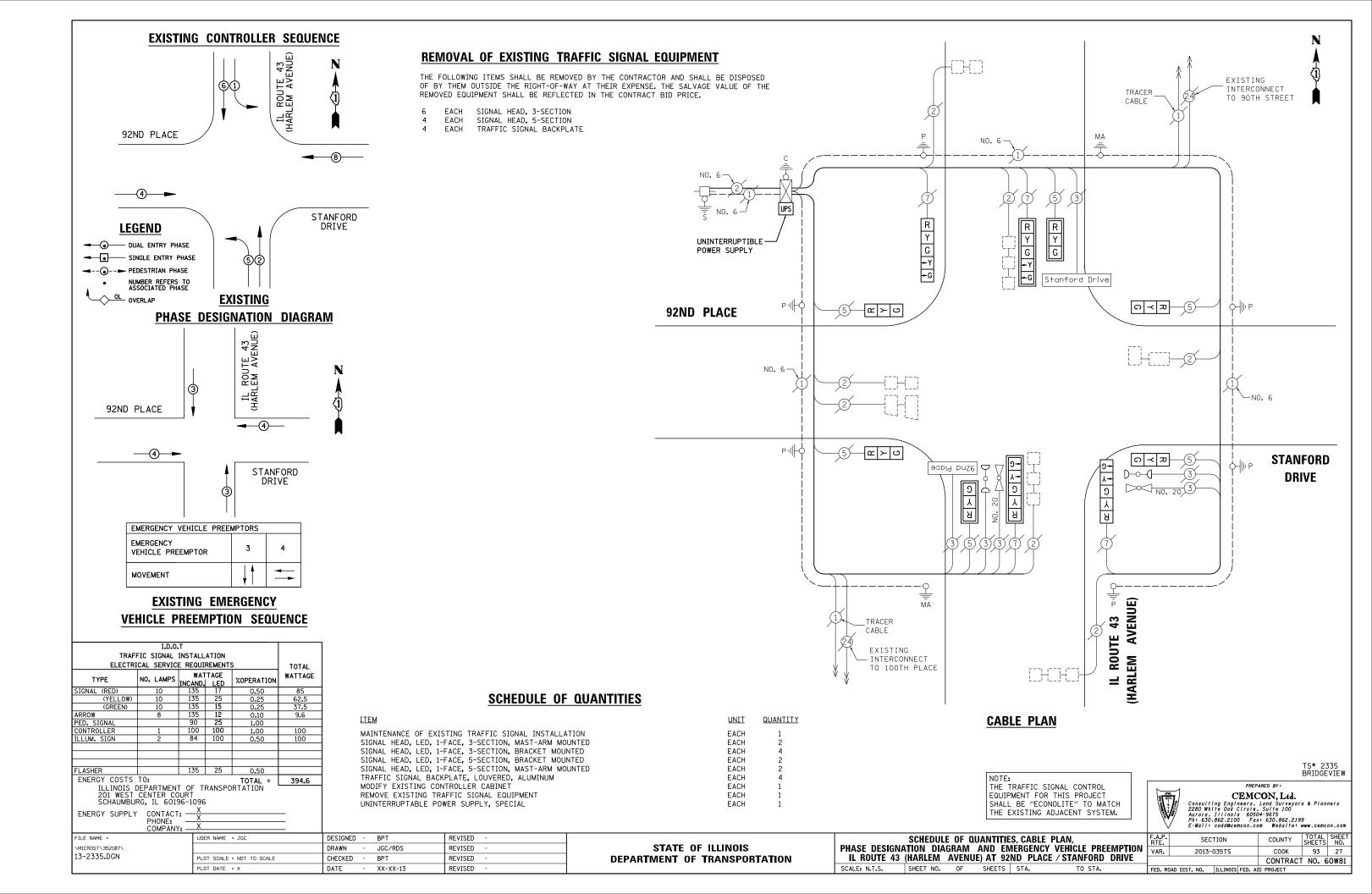


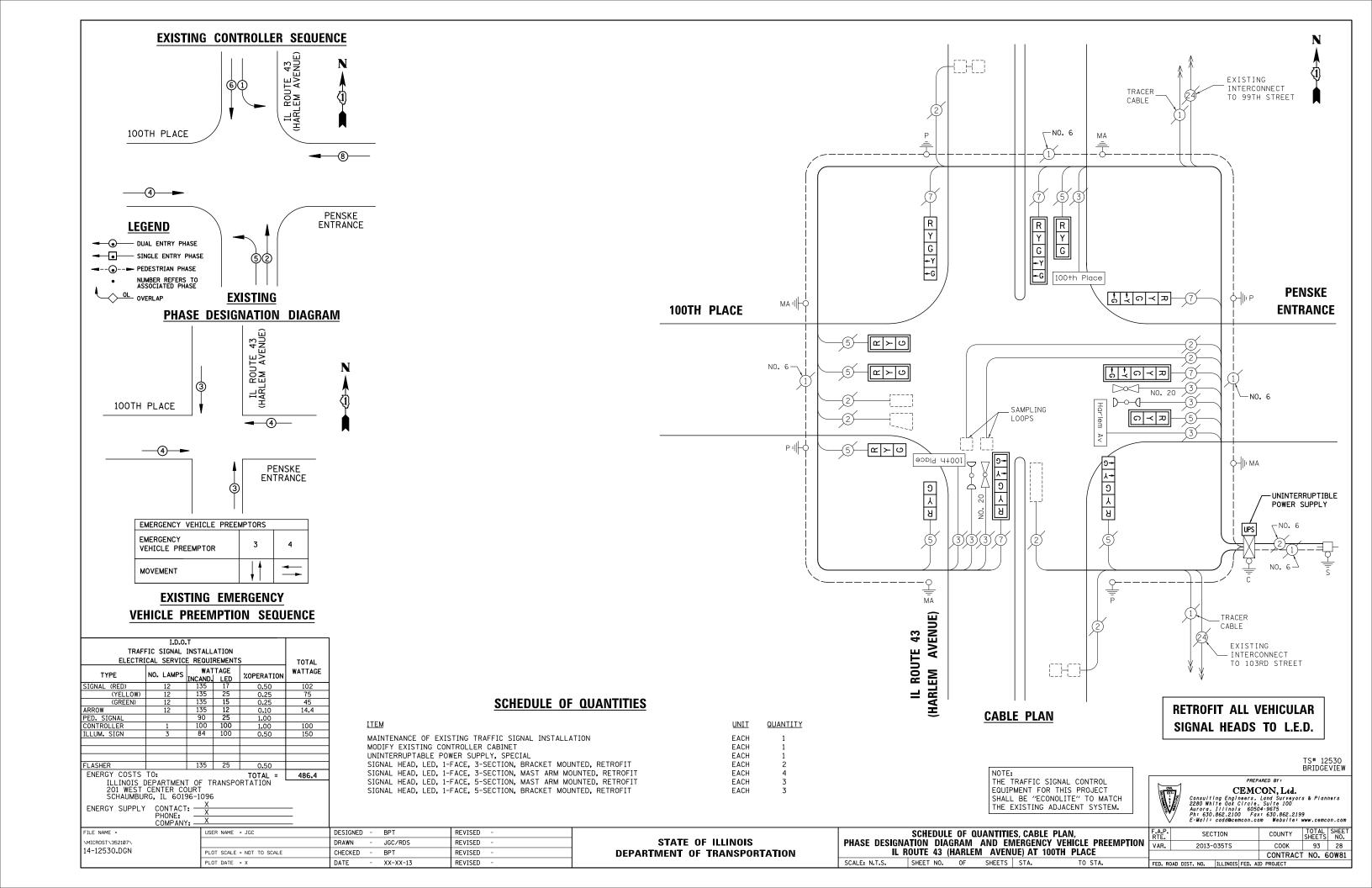


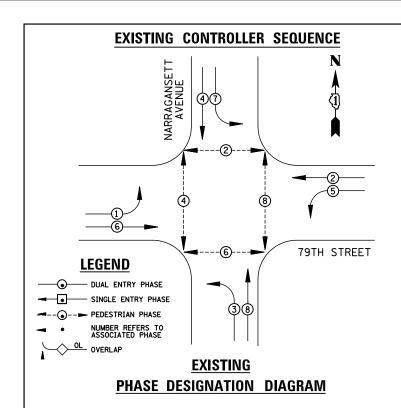












I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

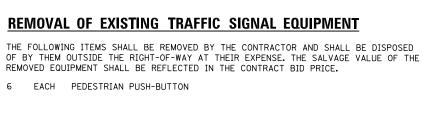
ENERGY COSTS TO: TOTAL =

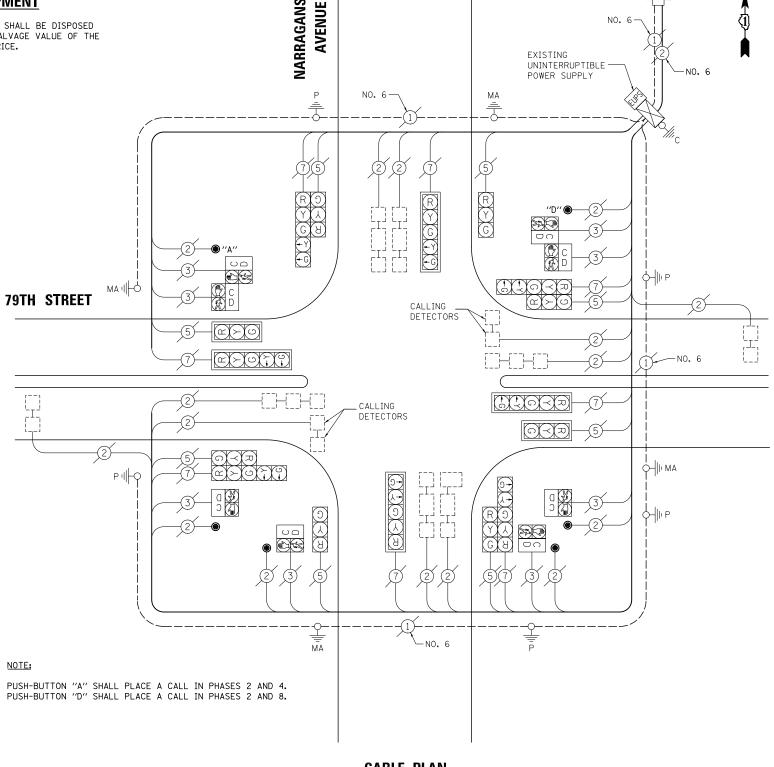
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

CONTACT: -PHONE:

ENERGY SUPPLY

WATTAGE INCAND. LED 135 17 135 25





## **CABLE PLAN**

### SCHEDULE OF QUANTITIES

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PEDESTRIAN PUSH-BUTTON, NON-LATCHING

<u>UNIT</u> QUANTITY EACH FACH EACH

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

# TS# 3885 BURBANK PREPARED BY

CEMCON, Ltd.
Consulting Engineers. Land Surveyors & Planners
2280 White Oak Circle Suite 100
Aurora, 11 nois 80304-3673
Ph. 833.862.2109 Fox: 381.862.2199
E-Wall: add@cemcon.com Website: www.cemcon.com

.A.P. RTE.	SECTION					COUNTY		TOTAL SHEETS	SHEET NO.
/AR.	2013-035TS					COOK		93	29
					CONTRA	ACT	NO. (	60W81	
ED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT			

FILE NAME =	USER NAME = JGC	DESIGNED	-	BPT	REVISED -
\MICROST\352107\		DRAWN	-	JGC/RDS	REVISED -
15-3885 <b>.</b> DGN	PLOT SCALE = NOT TO SCALE	CHECKED	-	BPT	REVISED -
	PLOT DATE = X	DATE	-	XX-XX-13	REVISED -

TOTAL

WATTAGE

615.2

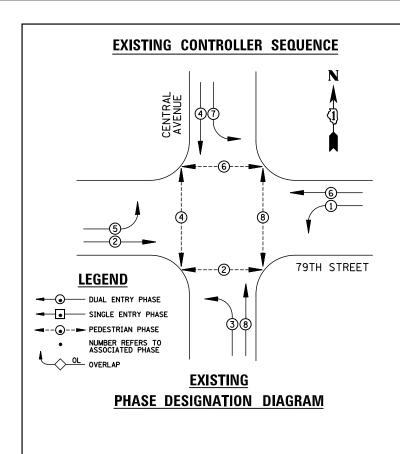
%OPERATION

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM 79TH STREET AT NARRAGANSETT AVENUE

SCALE: N.T.S.

SHEET NO. OF SHEETS STA.

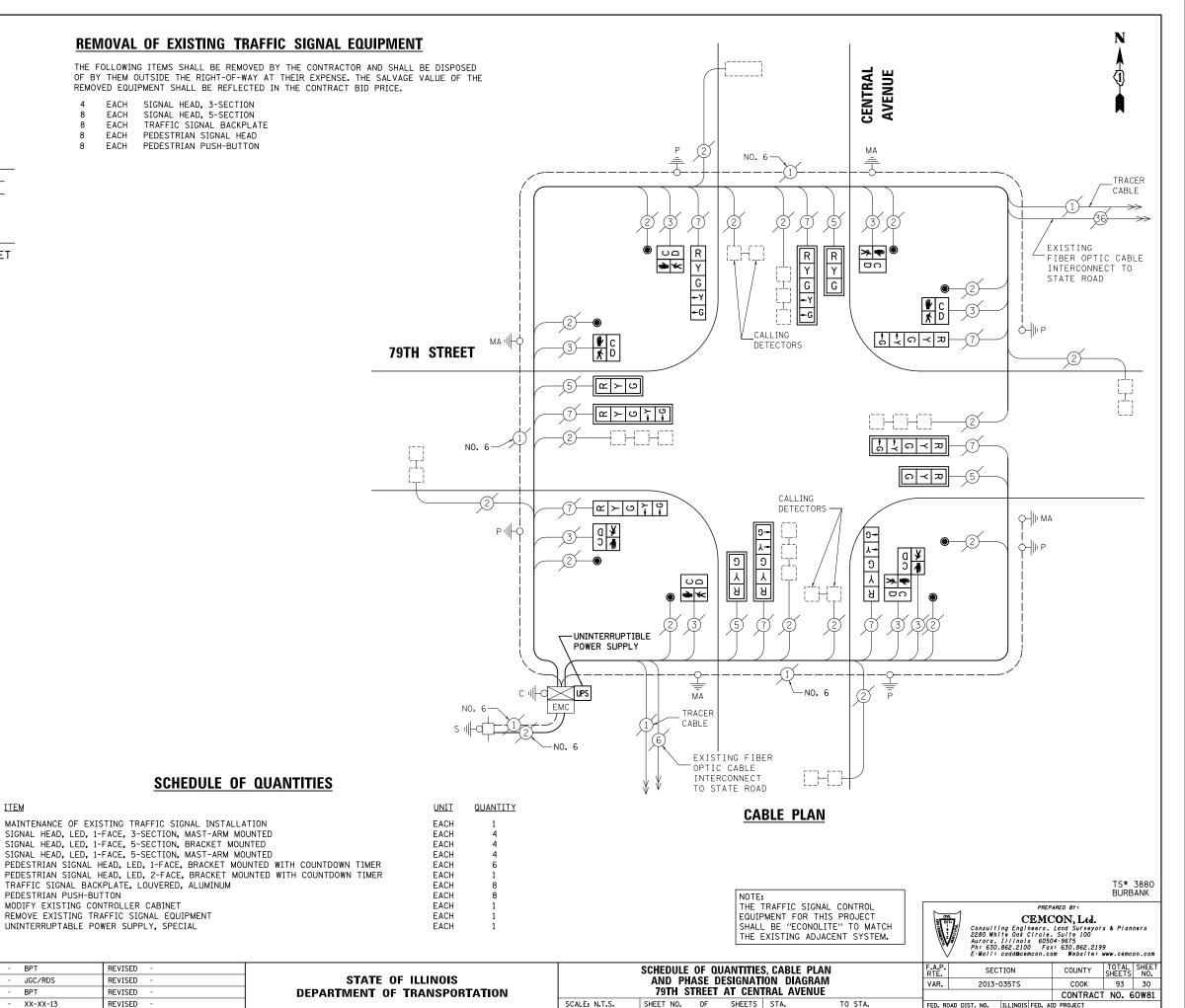


SIGNAL HEAD, 3-SECTION SIGNAL HEAD, 5-SECTION TRAFFIC SIGNAL BACKPLATE

PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON

FACH EACH FACH

FACH



TRAF							
ELECTRI	TOTAL						
TYPE	TYPE NO. LAMPS   WATTAGE   %OPERATION						
SIGNAL (RED)	12	135	17	0.50	102		
(YELLOW)	12	135	25	0.25	75		
(GREEN)	12	135	15	0.25	45		
ARROW	16	135	12	0.10	19.2		
PED. SIGNAL	8	90	25	1.00	200		
CONTROLLER	1	100	100	1.00	100		
ILLUM. SIGN		84	100	0.50			
FLASHER		135	25	0.50			
ENERGY COSTS				TOTAL =	541.2		
201 WEST	DEPARTMEN CENTER CO RG, IL 6019	)URT 96-1096		RTATION			
ENERGY SUPPLY	CONTACT PHONE:	: X			_		

JSER NAME = JGC

PLOT DATE = X

PLOT SCALE = NOT TO SCALE

FILE NAME =

MICROST\352107\

17-3880.DGN

<u>ITEM</u>

DESIGNED - BPT

JGC/RDS

XX-XX-13

BPT

ORAWN

DATE

CHECKED

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED

TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM

REVISED

REVISED

REVISED

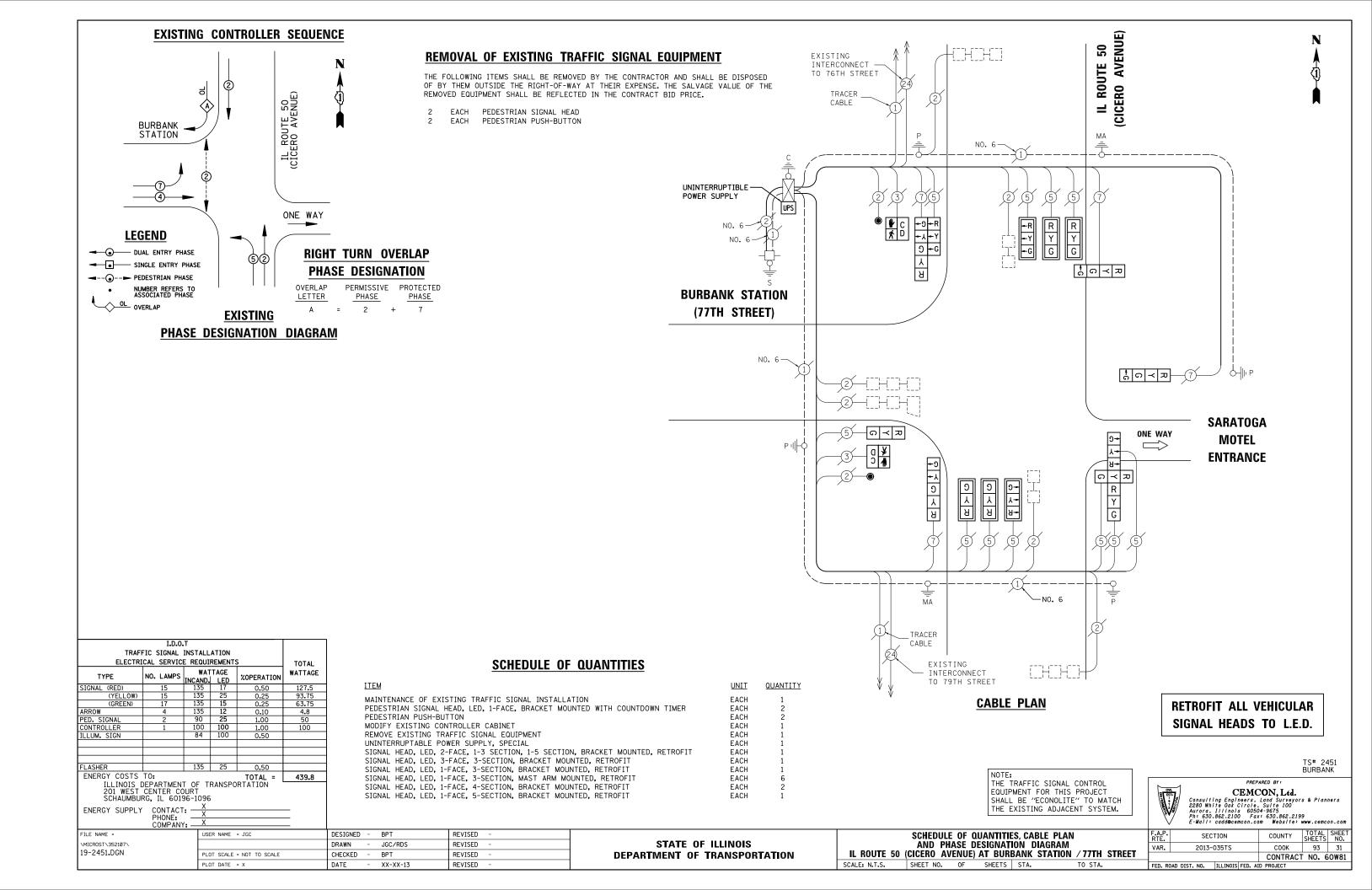
REVISED

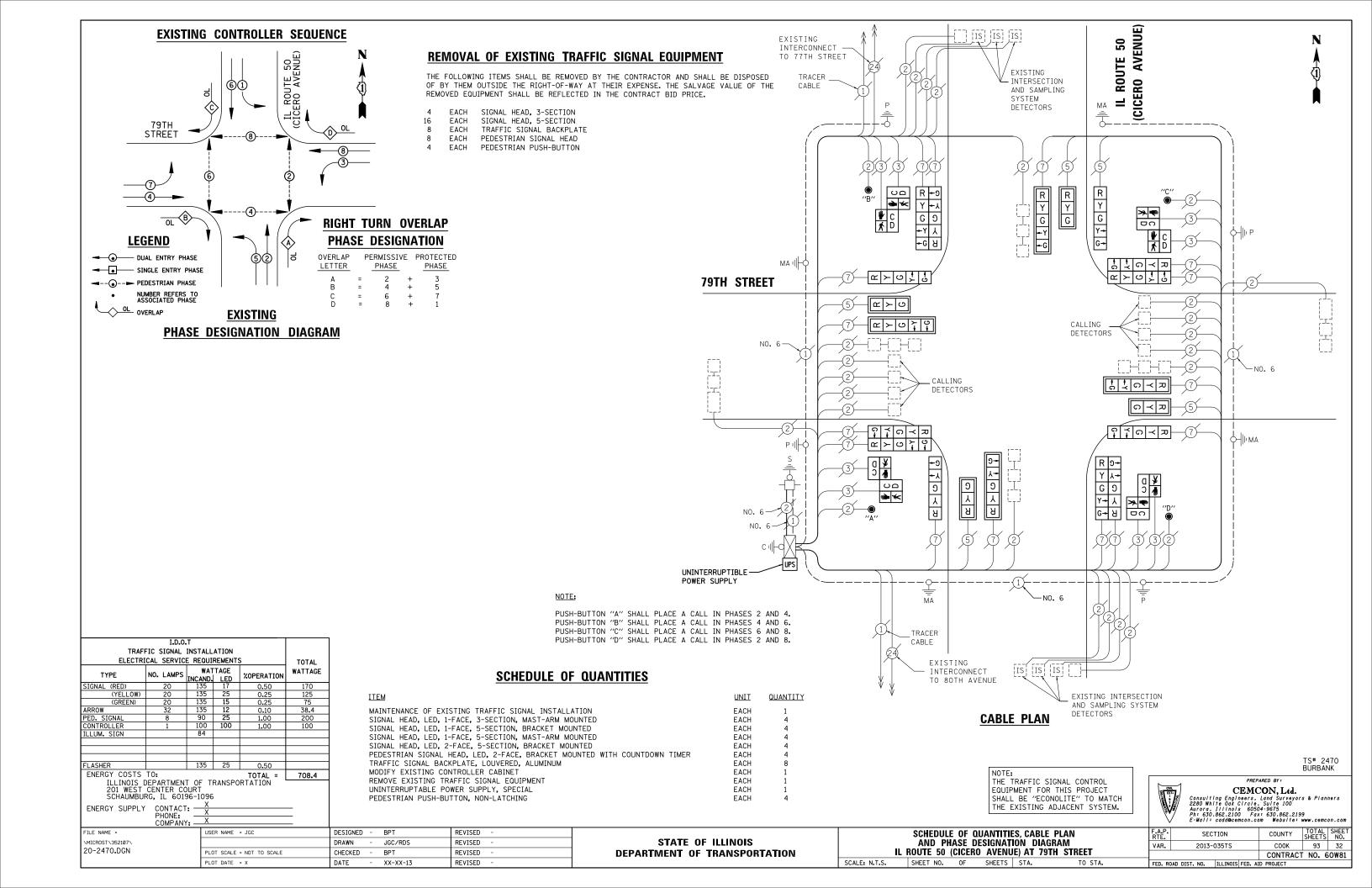
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

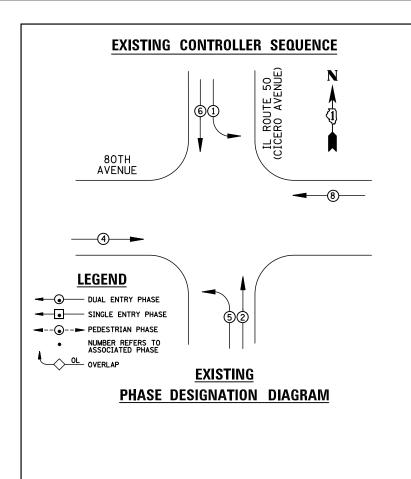
UNINTERRUPTABLE POWER SUPPLY, SPECIAL

MODIFY EXISTING CONTROLLER CABINET

PEDESTRIAN PUSH-BUTTON







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

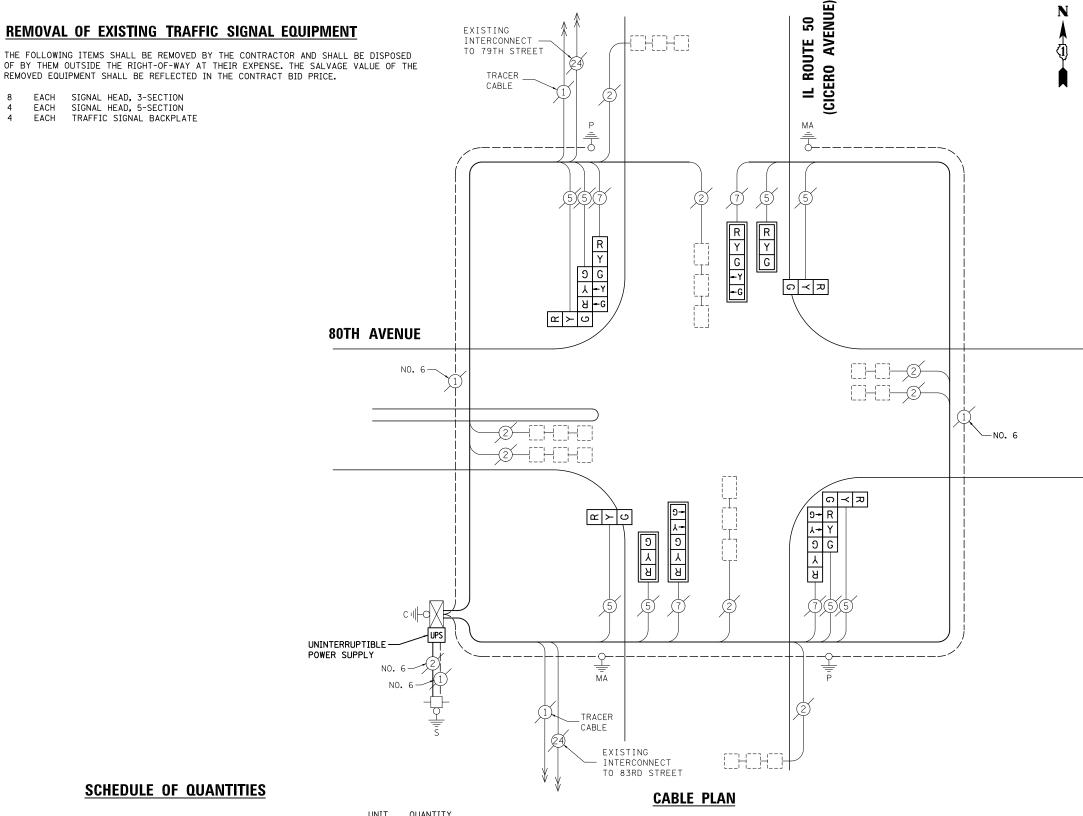
CONTACT: -PHONE:

FLASHER

ENERGY SUPPLY

WATTAGE INCAND. LED 135 17 135 25

100 100



**SCHEDULE OF QUANTITIES** 

SIGNAL HEAD, 3-SECTION

SIGNAL HEAD, 5-SECTION

TRAFFIC SIGNAL BACKPLATE

EACH

EACH

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

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



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

SECTION COUNTY VAR. 2013-035TS COOK 93 33 CONTRACT NO. 60W81

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

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM

FILE NAME = MICROST\352107 21-2525.DGN

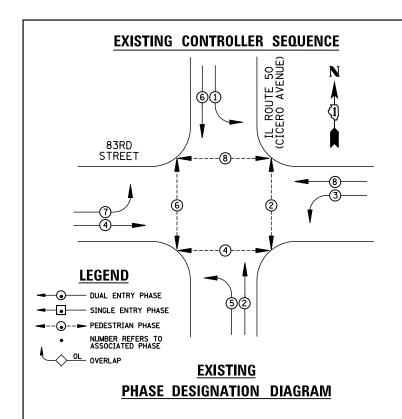
TOTAL

WATTAGE

331.6

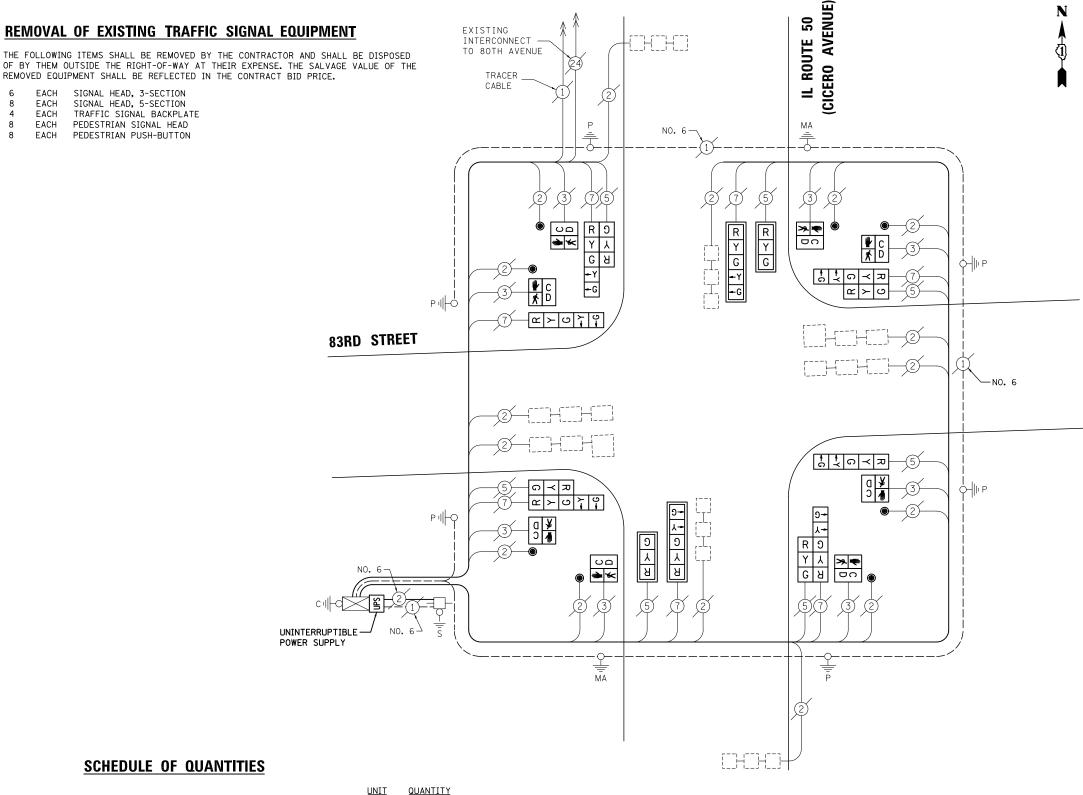
%OPERATION

IL ROUTE 50 (CICERO AVENUE) AT 80TH AVENUE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

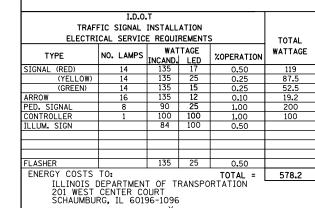




SIGNAL HEAD, 3-SECTION SIGNAL HEAD, 5-SECTION EACH FACH TRAFFIC SIGNAL BACKPLATE EACH PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON



EXISTING



CONTACT: PHONE:

ENERGY SUPPLY

FILE NAME =

MICROST\352107\

22-2475.DGN

### **SCHEDULE OF QUANTITIES**

<u>ITEM</u>	<u>UNIT</u>	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY. SPECIAL	EACH	1

### **CABLE PLAN**

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



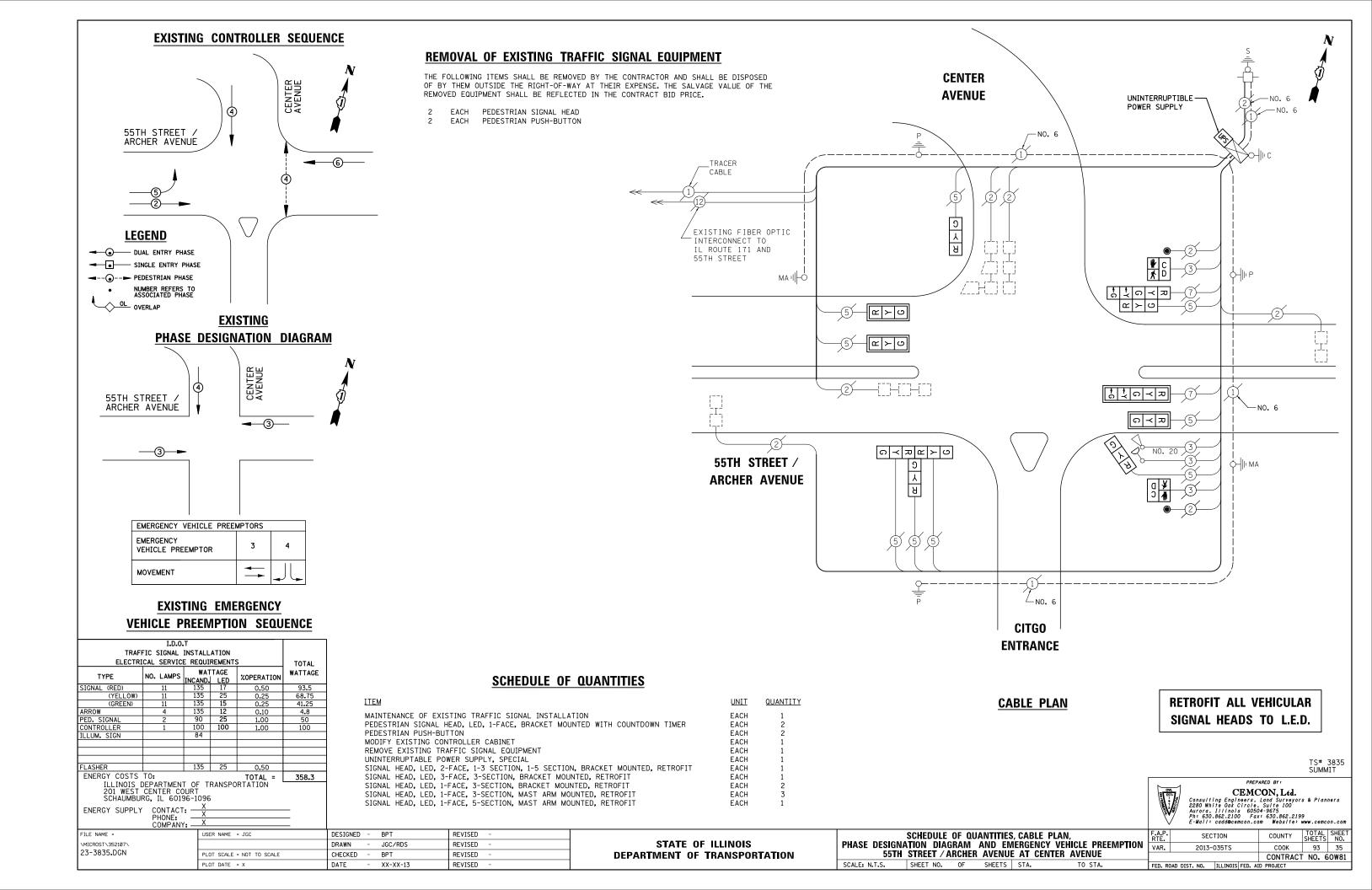
CEMCON, Ltd.
Consulting Engineers. Land Surveyors & Planners
2280 White Oak Circle Suite 100
Aurora, 11 nois 80304-3673
Ph. 833.862.2109 Fox: 381.862.2199
E-Wall: add@cemcon.com Website: www.cemcon.com

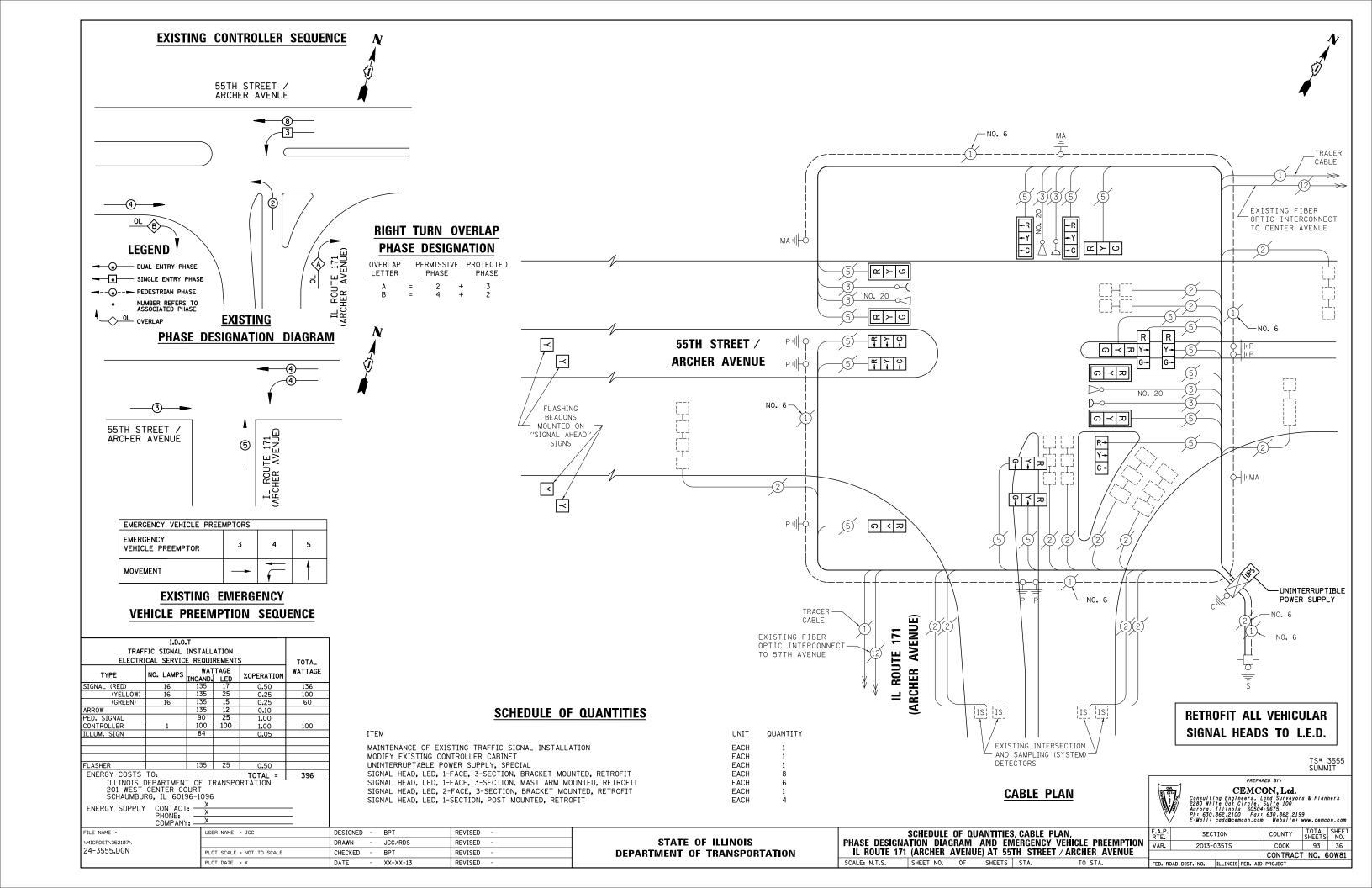
F.A.P. RTE.	SECTION					COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2013-035TS					COOK	93	34
						CONTRACT NO. 60W81		
FED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		

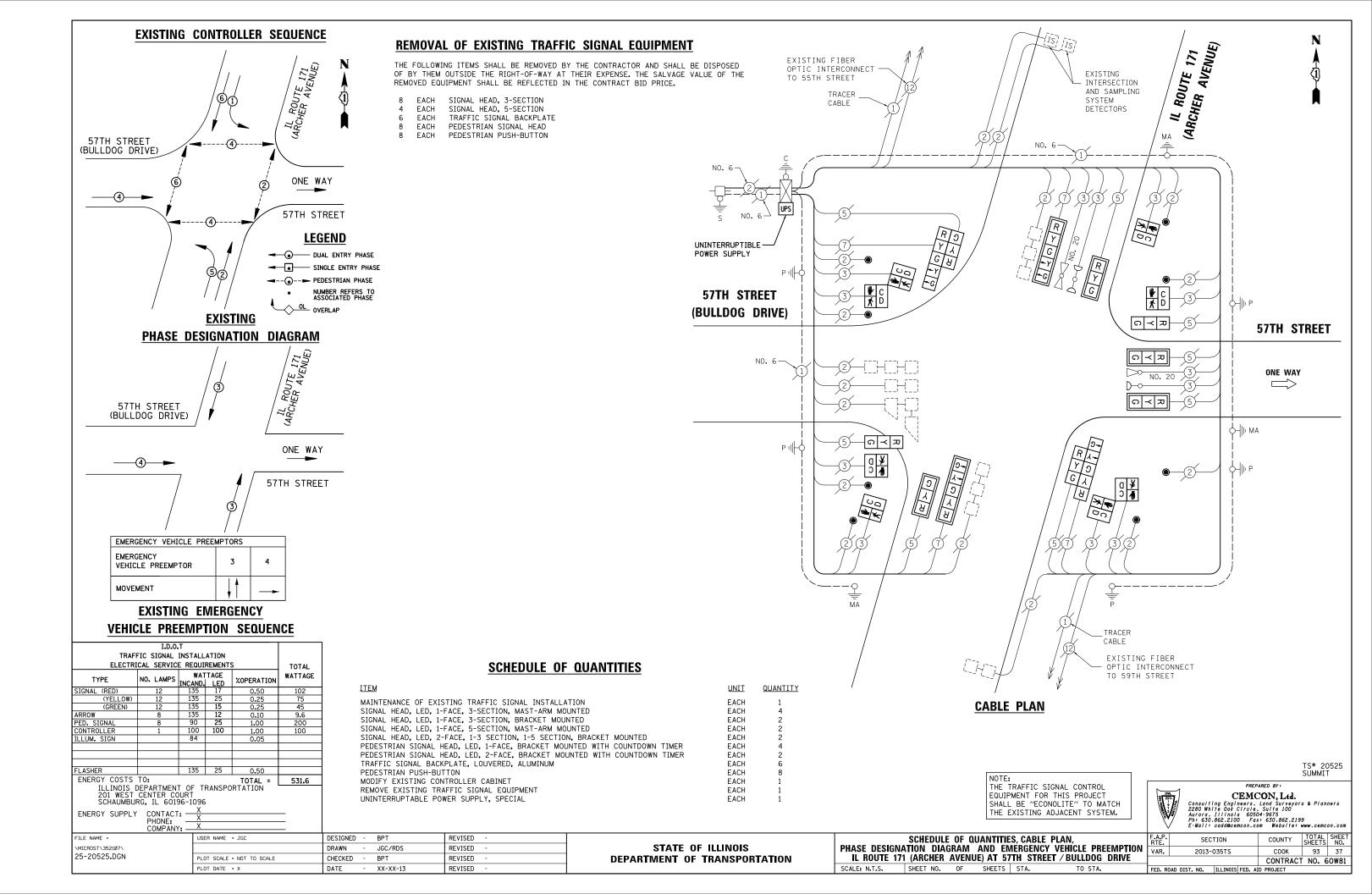
DESIGNED - BPT REVISED USER NAME = JGC DRAWN JGC/RDS REVISED PLOT SCALE = NOT TO SCALE CHECKED REVISED PLOT DATE = X DATE REVISED XX-XX-13

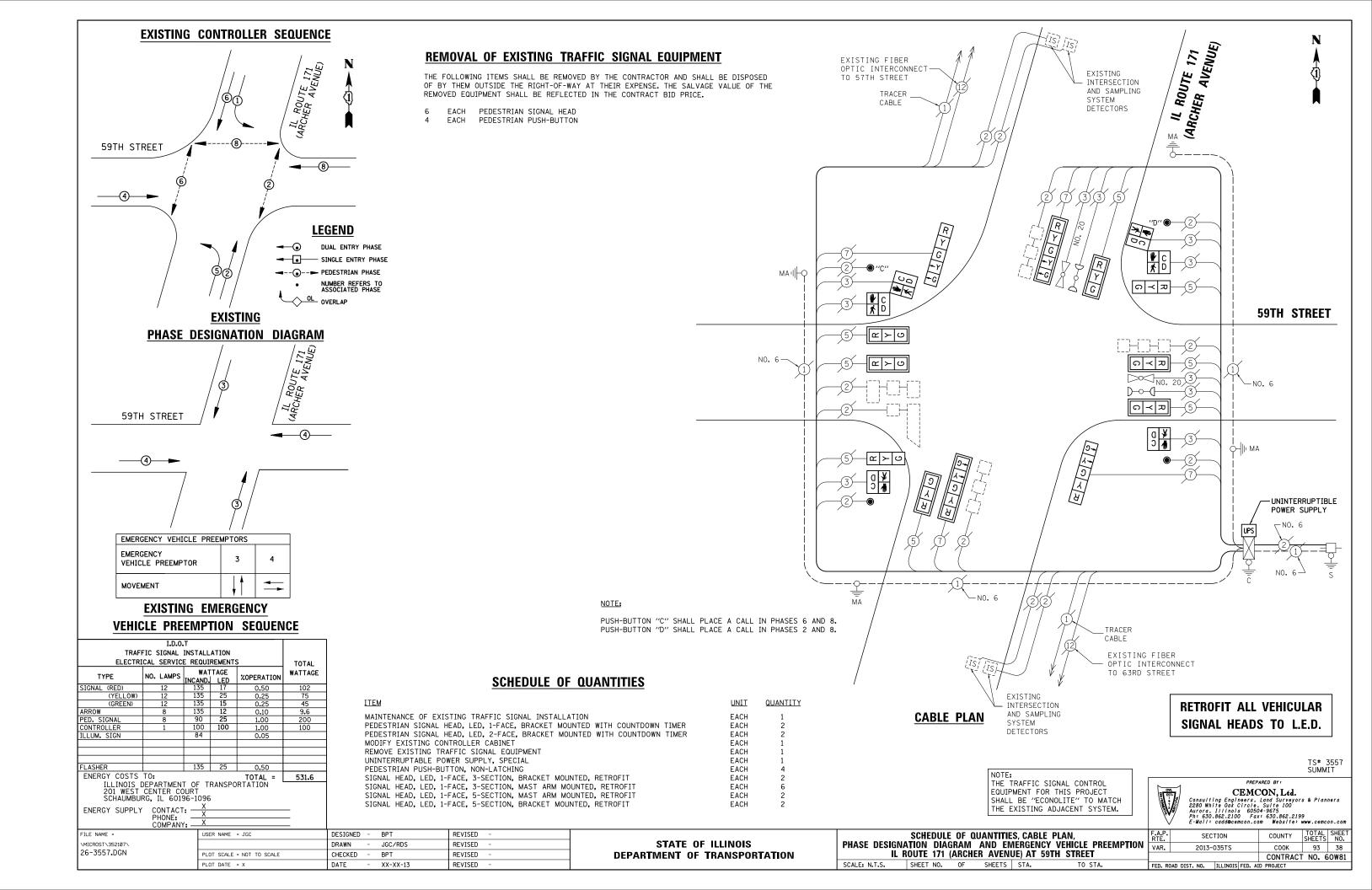
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

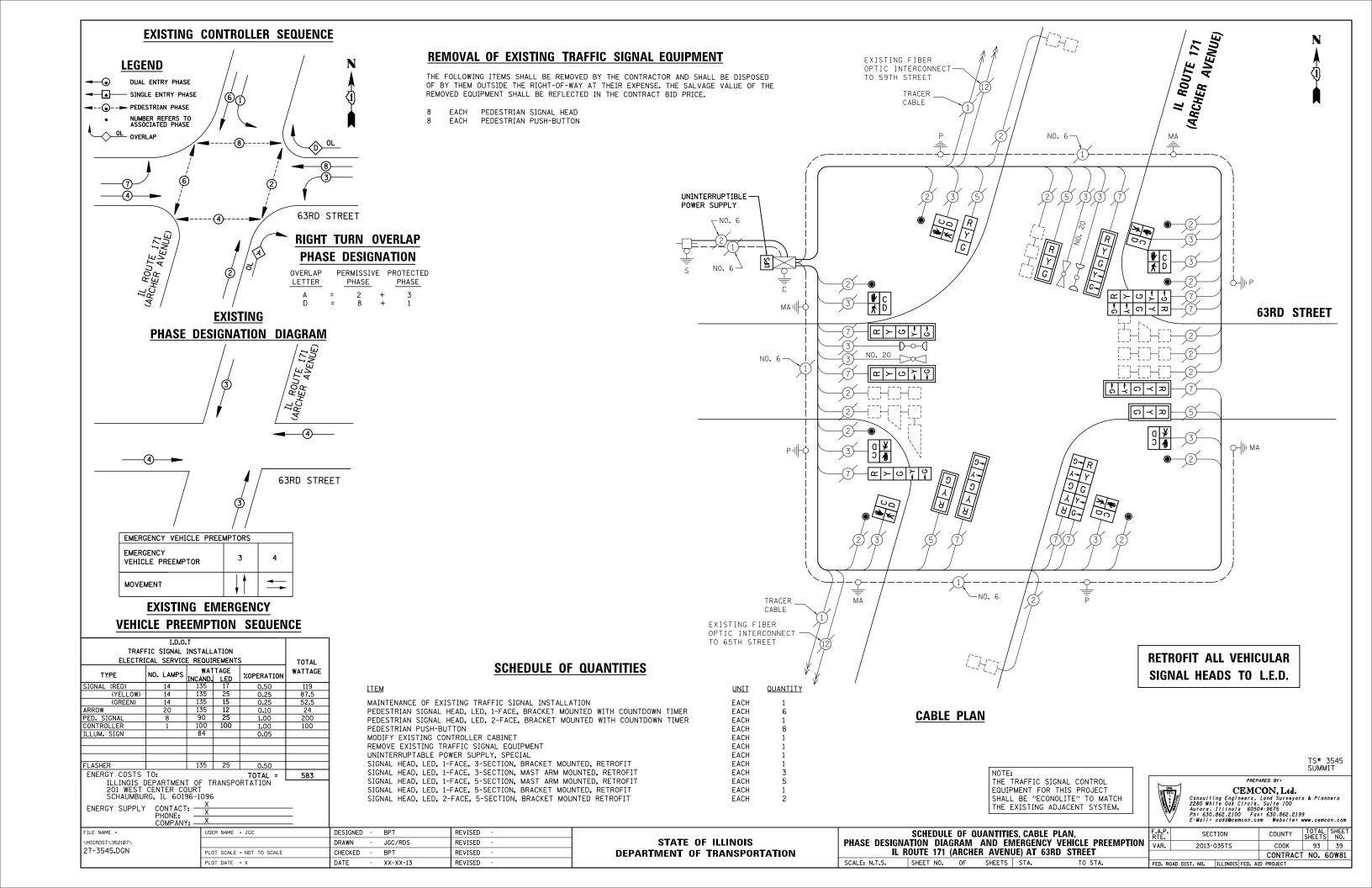
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL ROUTE 50 (CICERO AVENUE) AT 83RD STREET SCALE: N.T.S. SHEET NO. OF SHEETS STA.

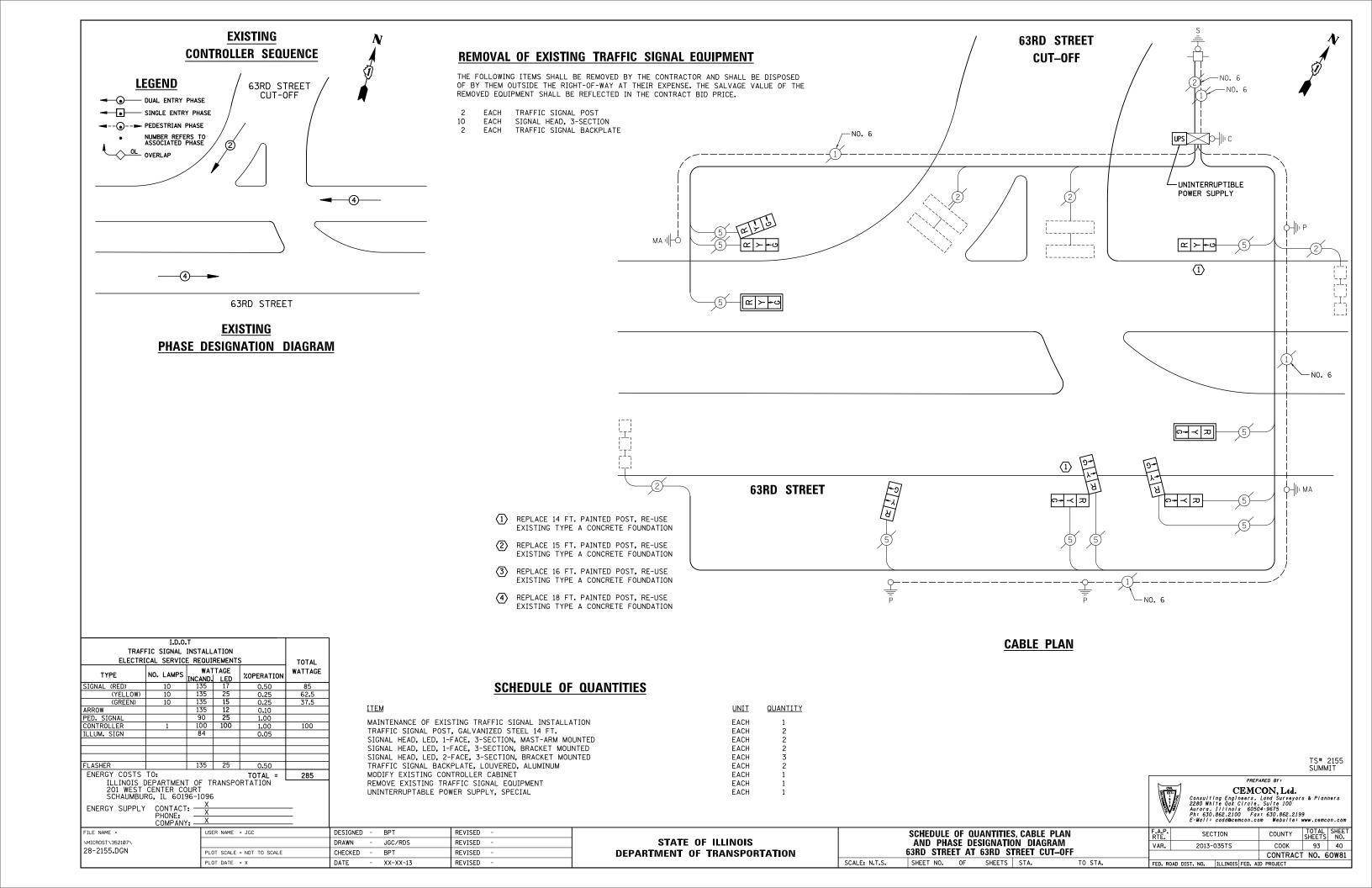


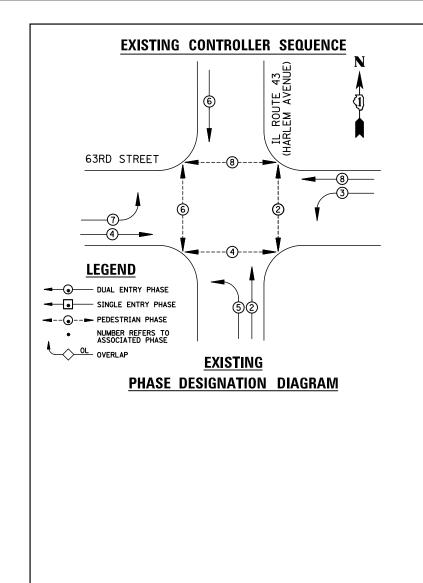












PEDESTRIAN SIGNAL HEAD

PEDESTRIAN PUSH-BUTTON

**SCHEDULE OF QUANTITIES** 

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

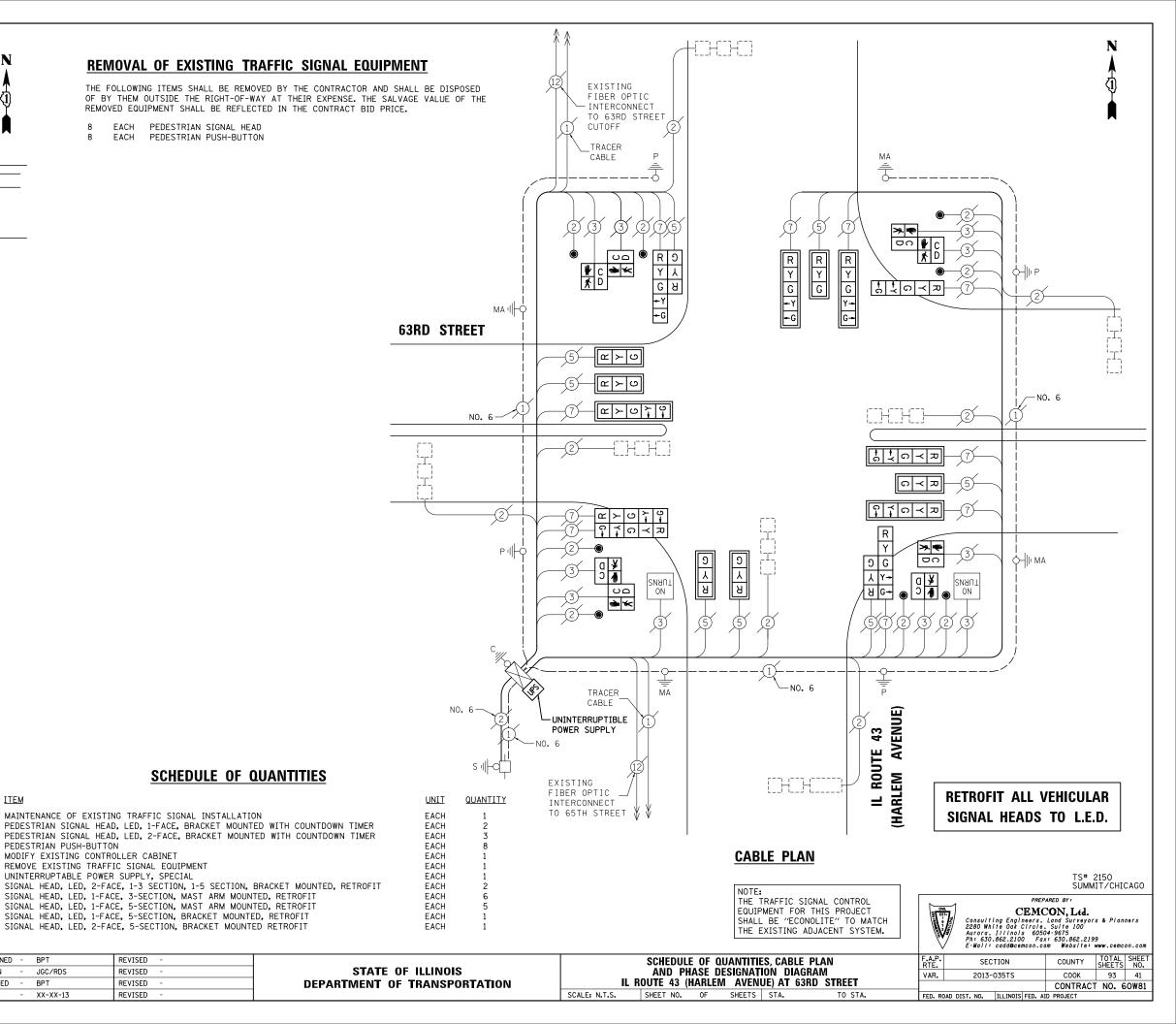
REVISED

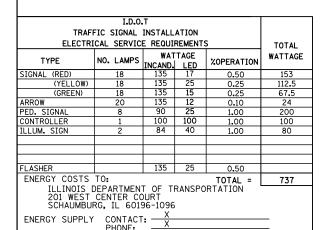
REVISED

REVISED

REVISED

SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT





USER NAME = JGC

PLOT DATE = X

FILE NAME =

MICROST\352107\

29-2150.DGN

<u>ITEM</u>

DESIGNED - BPT

ORAWN

DATE

CHECKED

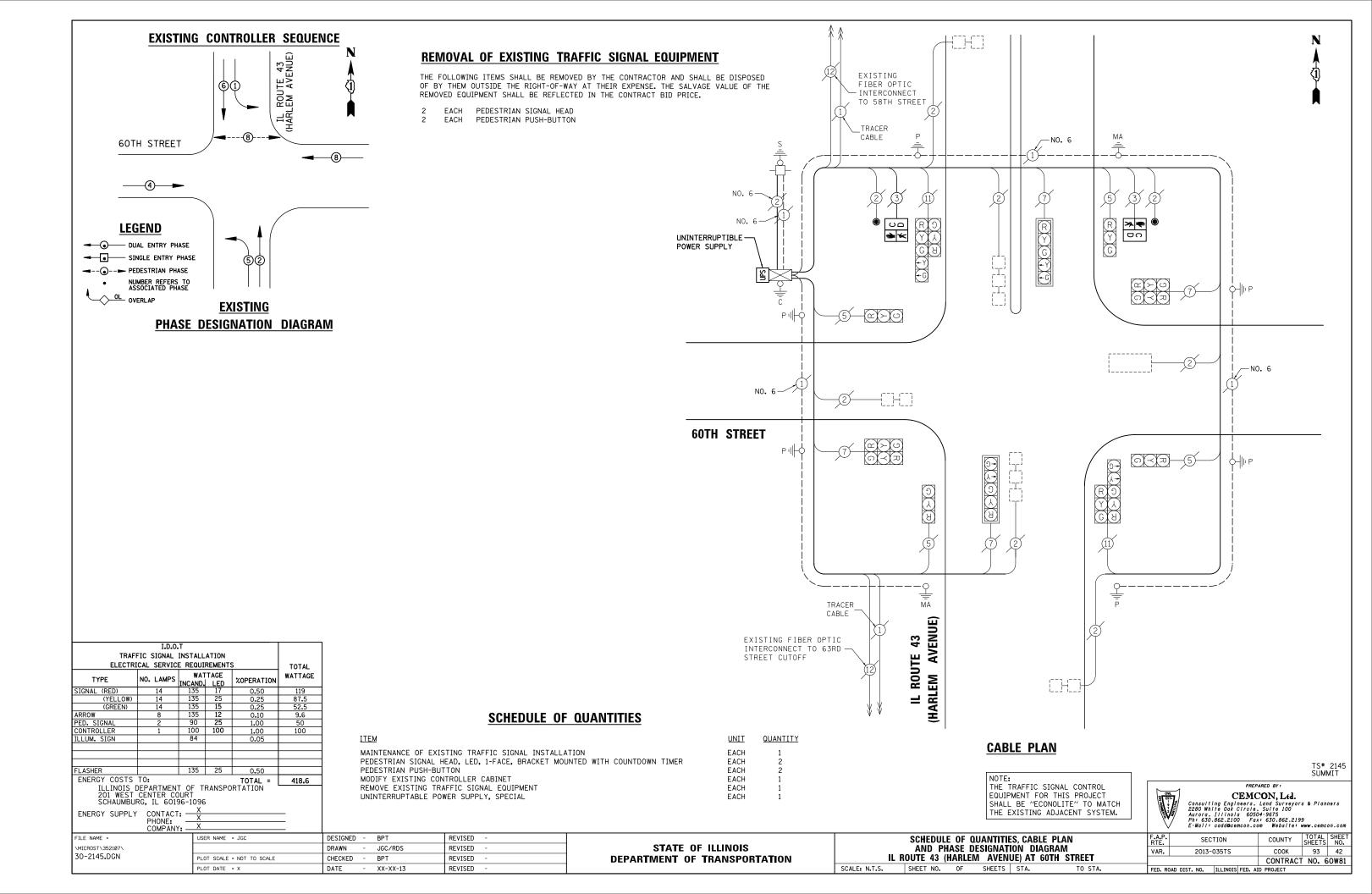
PEDESTRIAN PUSH-BUTTON

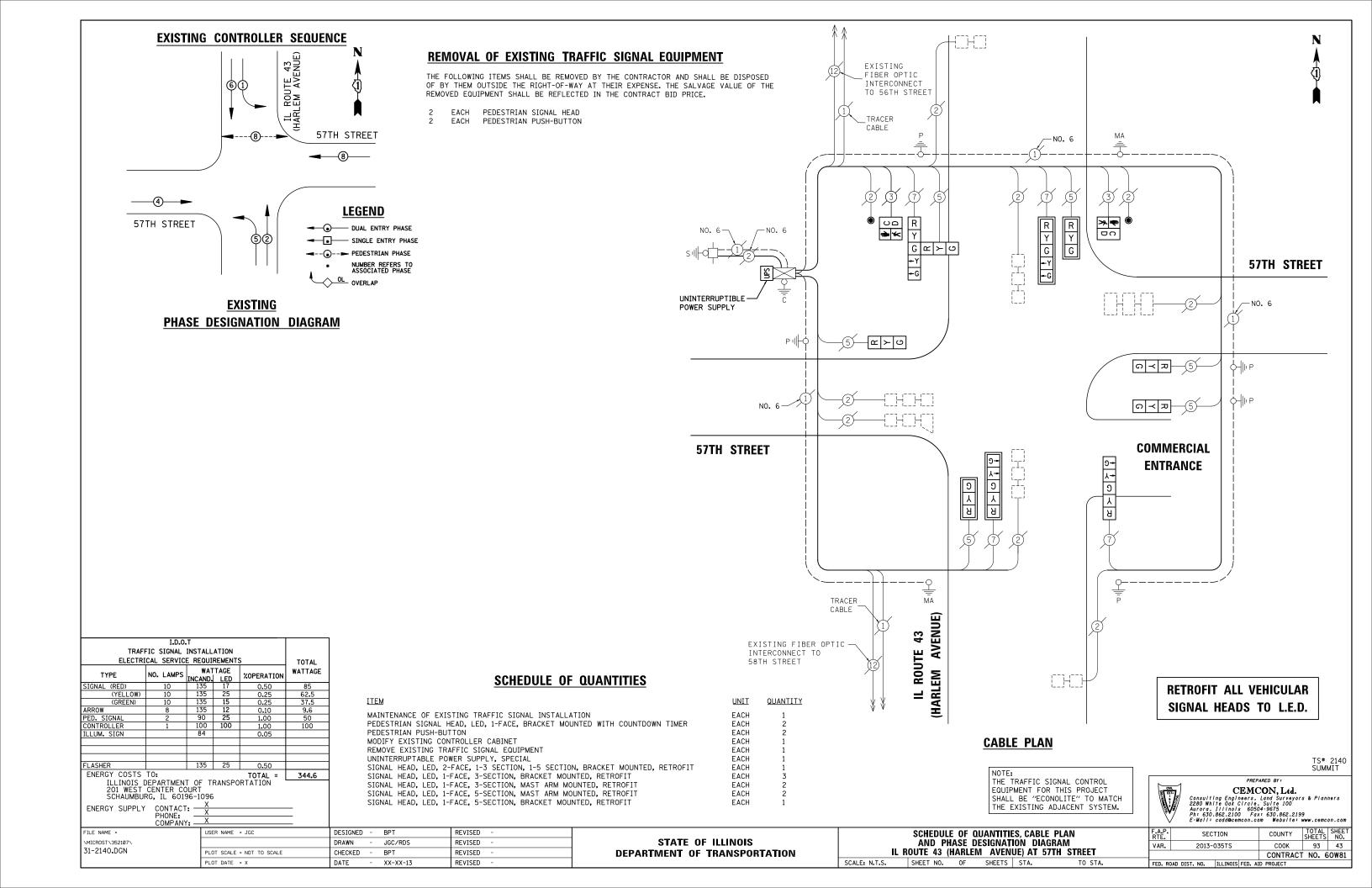
JGC/RDS

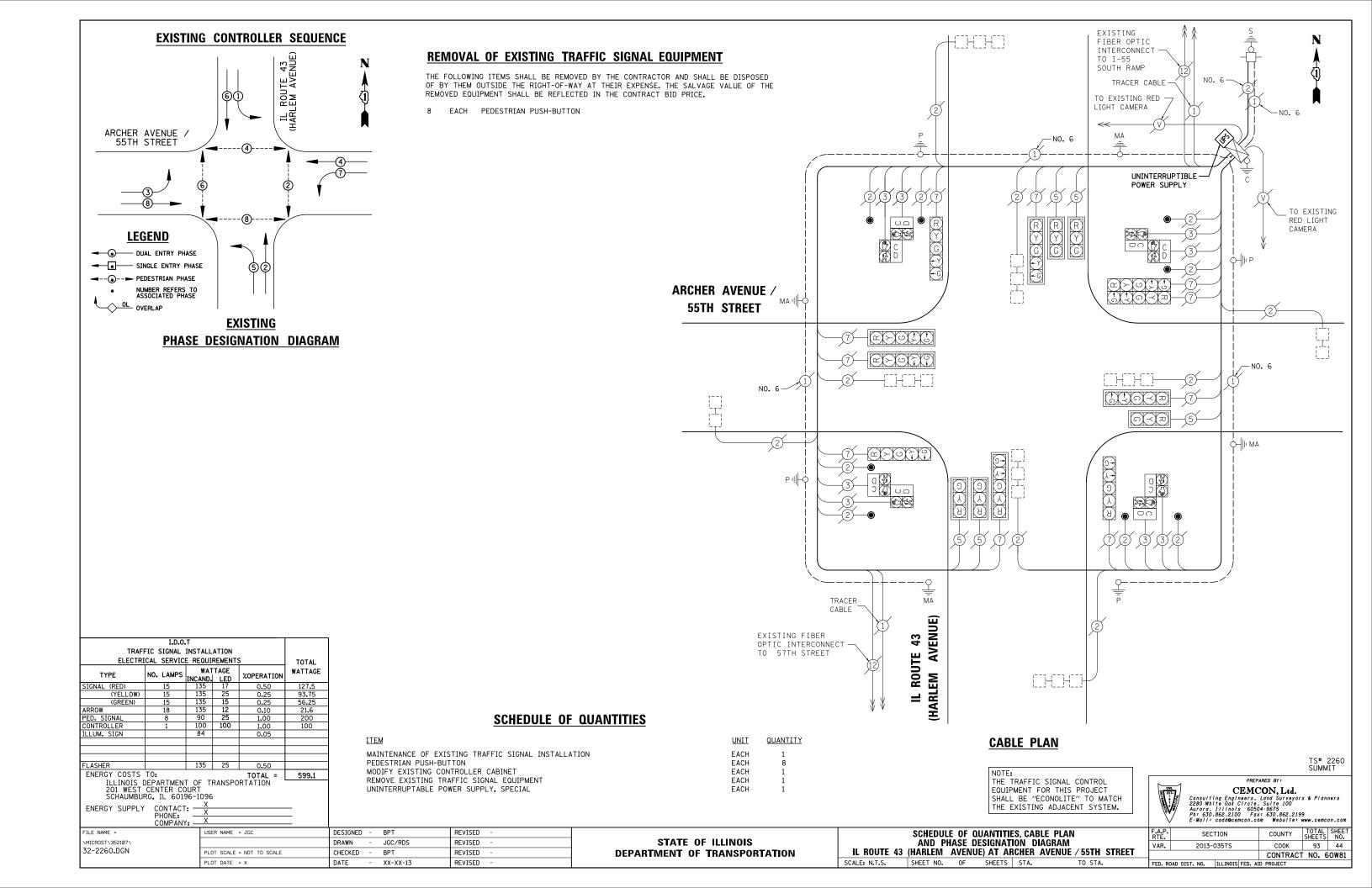
XX-XX-13

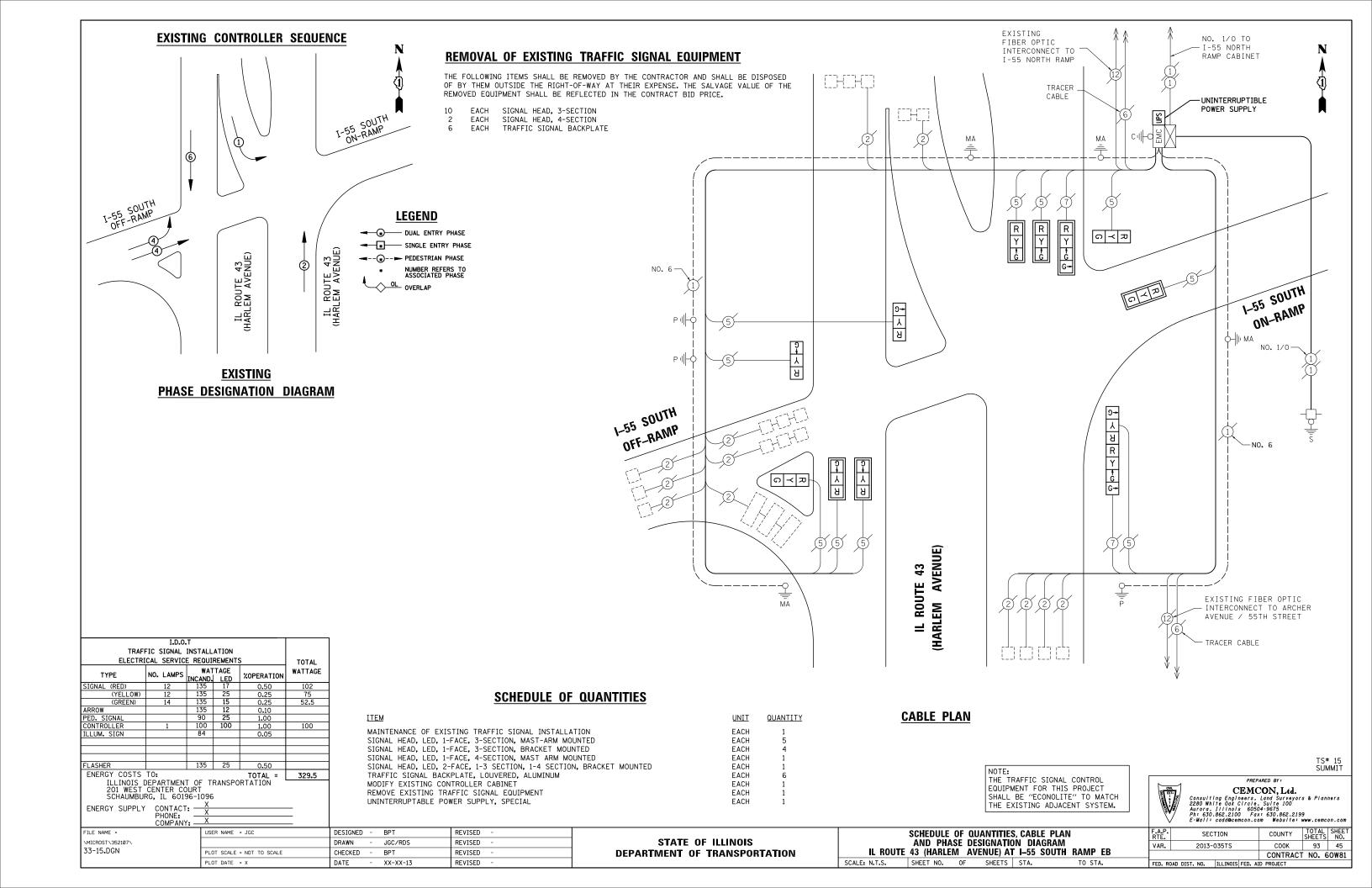
MODIFY EXISTING CONTROLLER CABINET

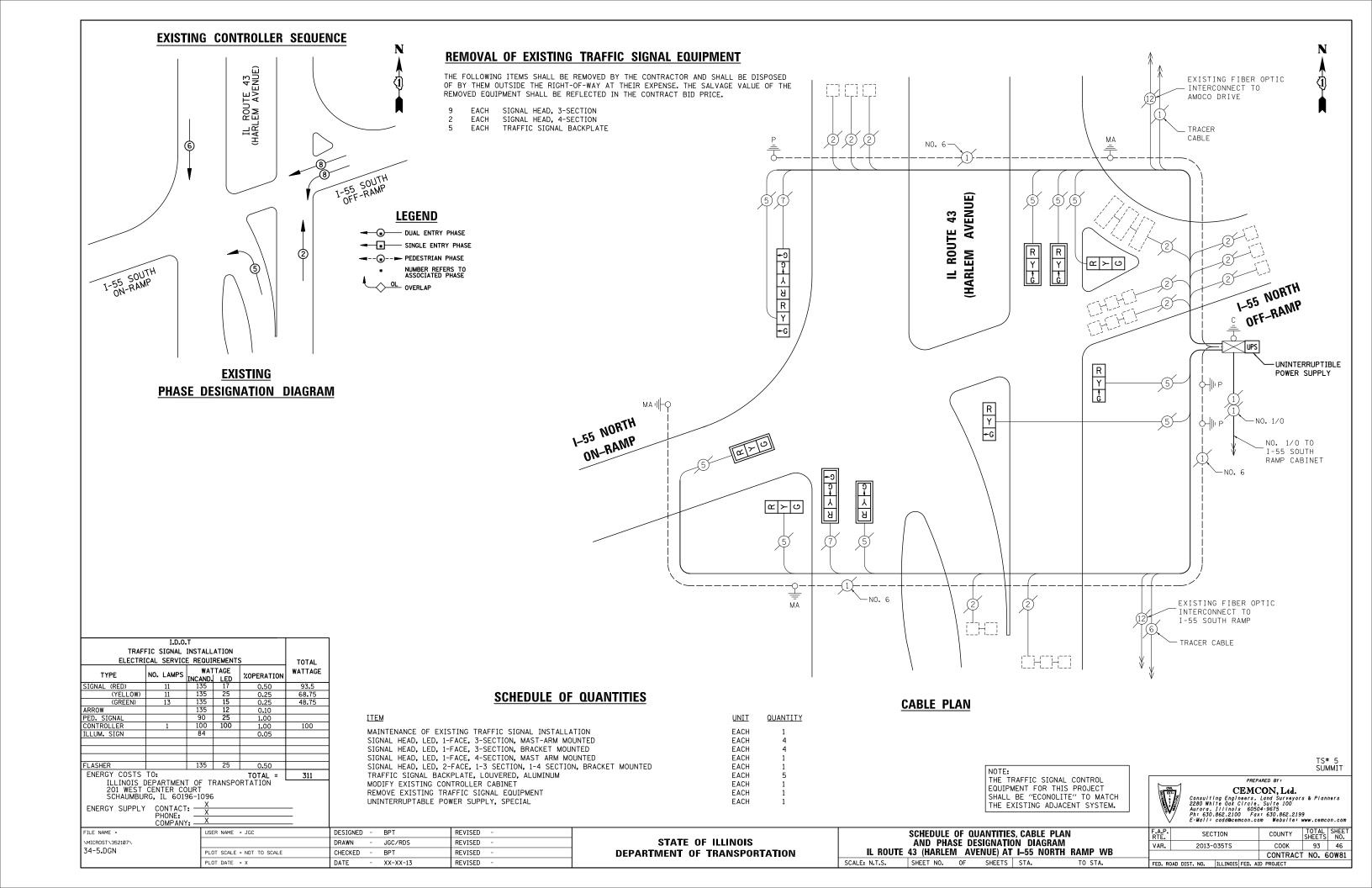
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL

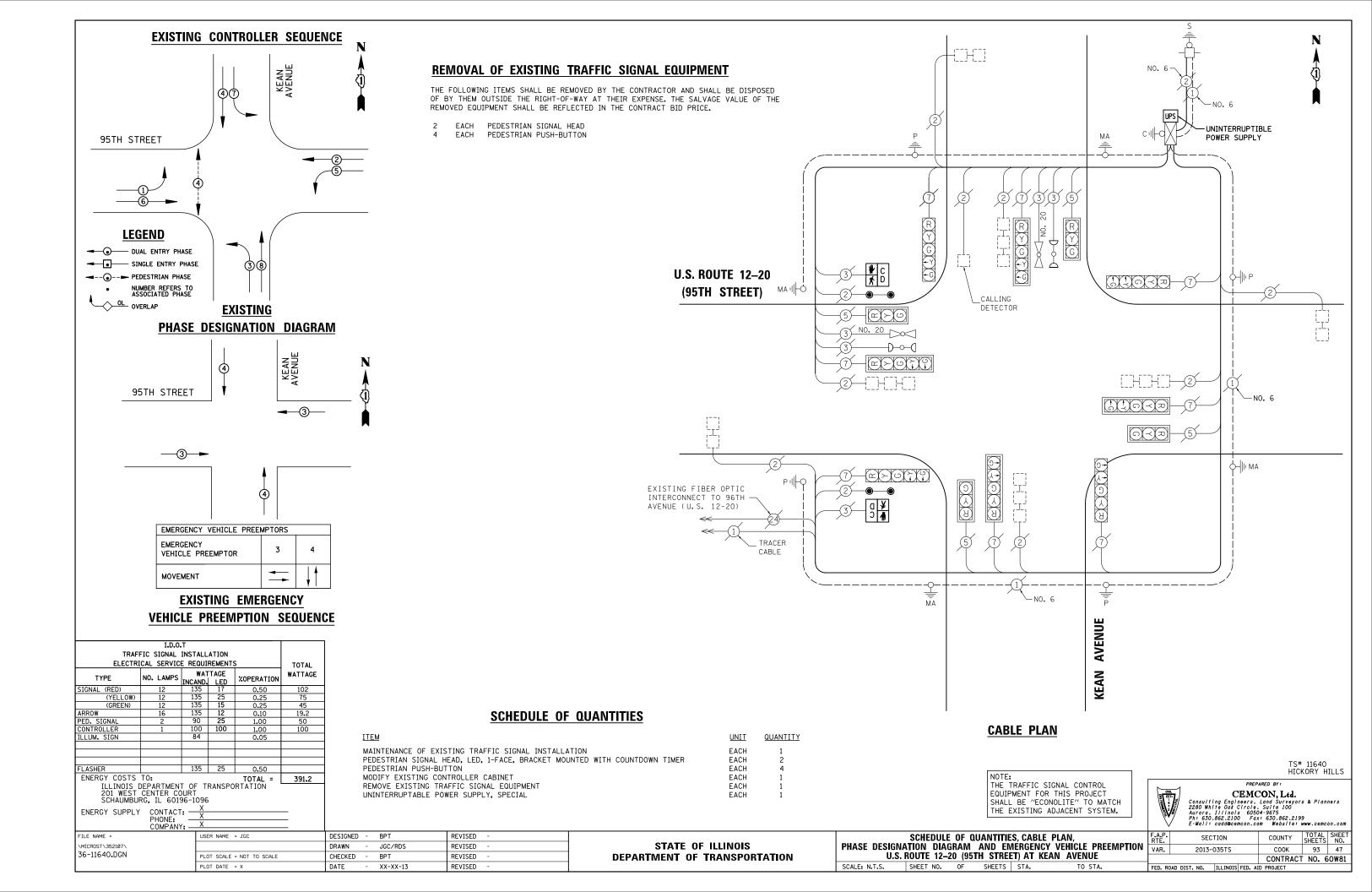


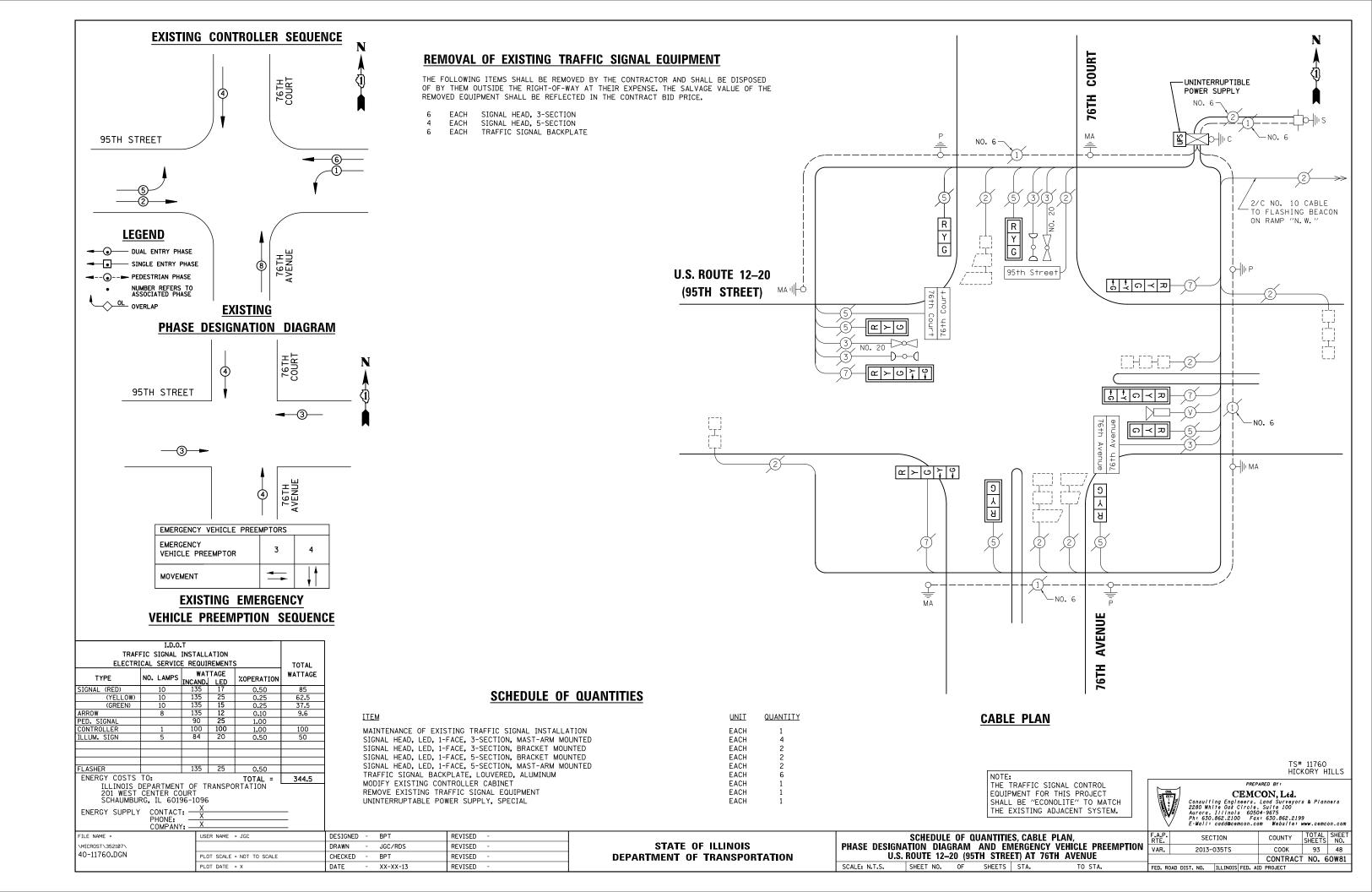


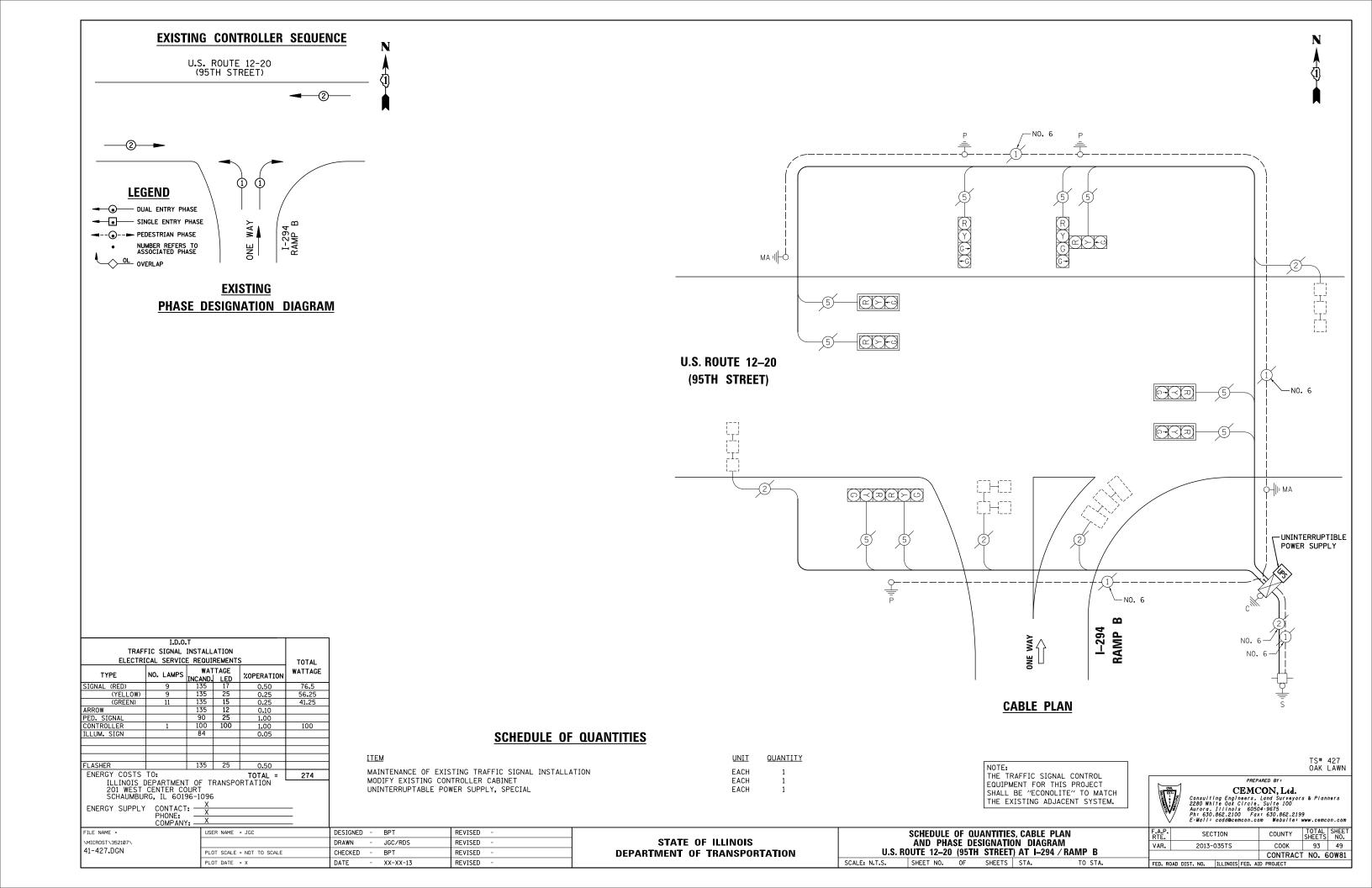


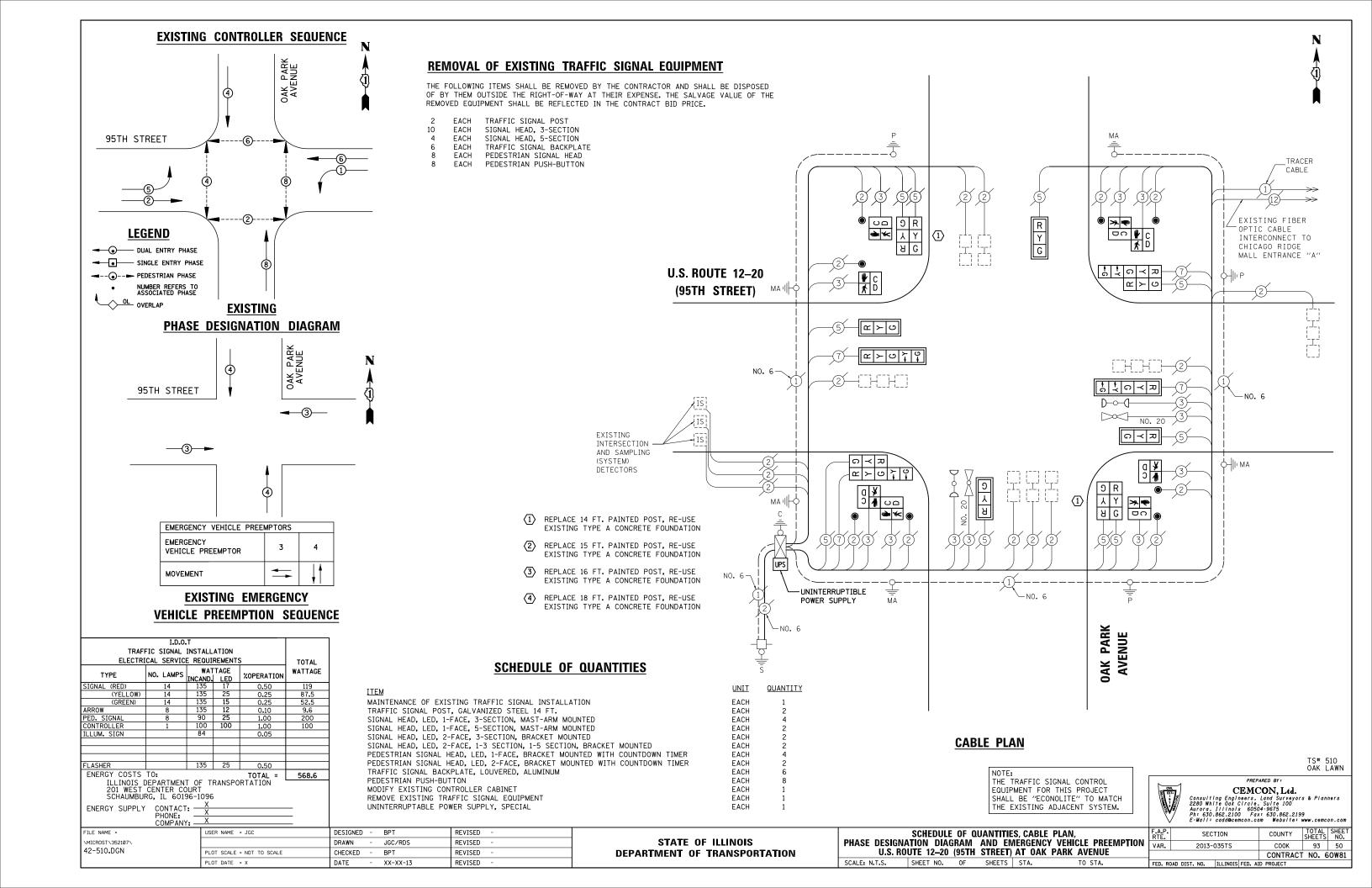


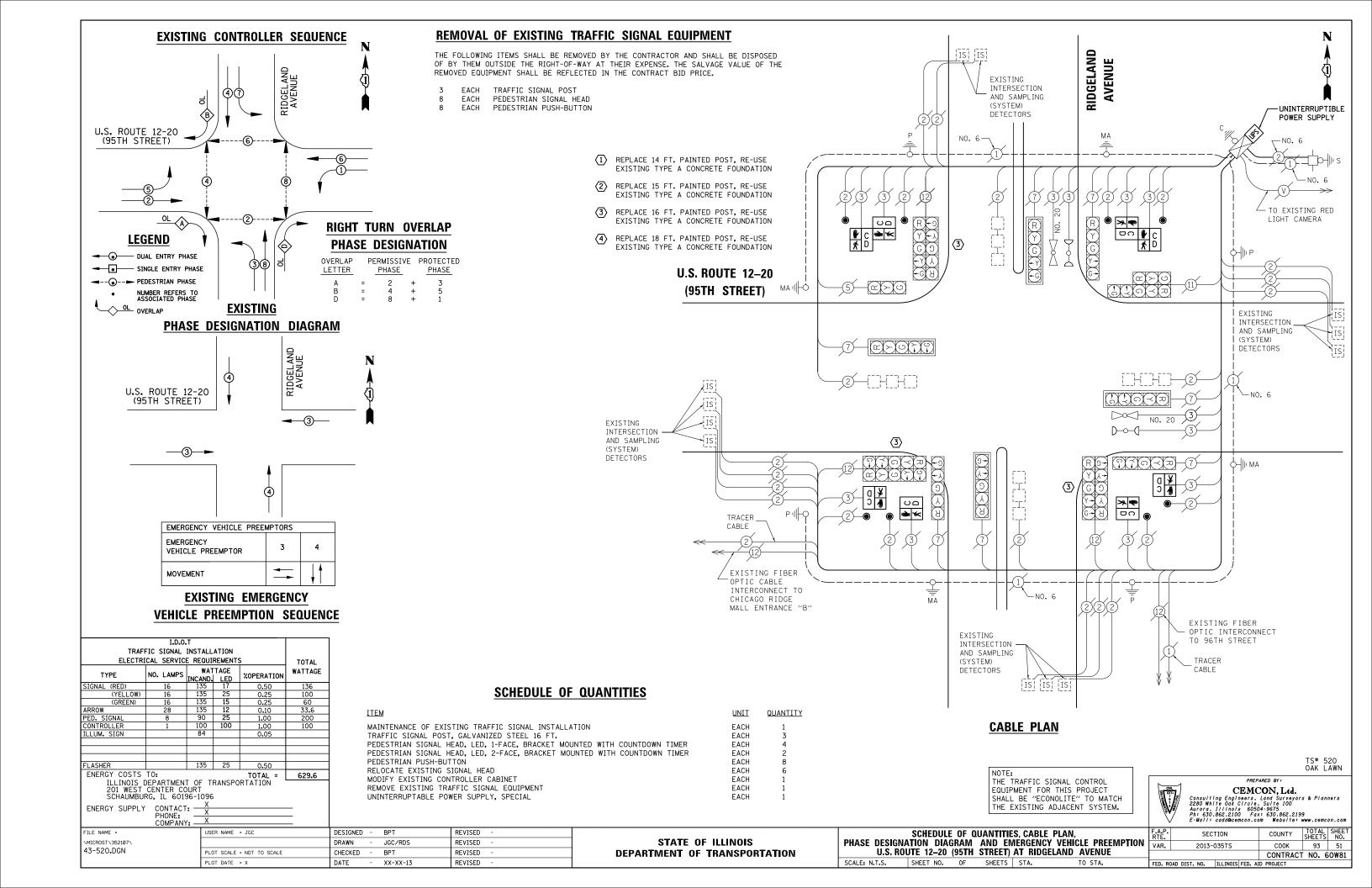


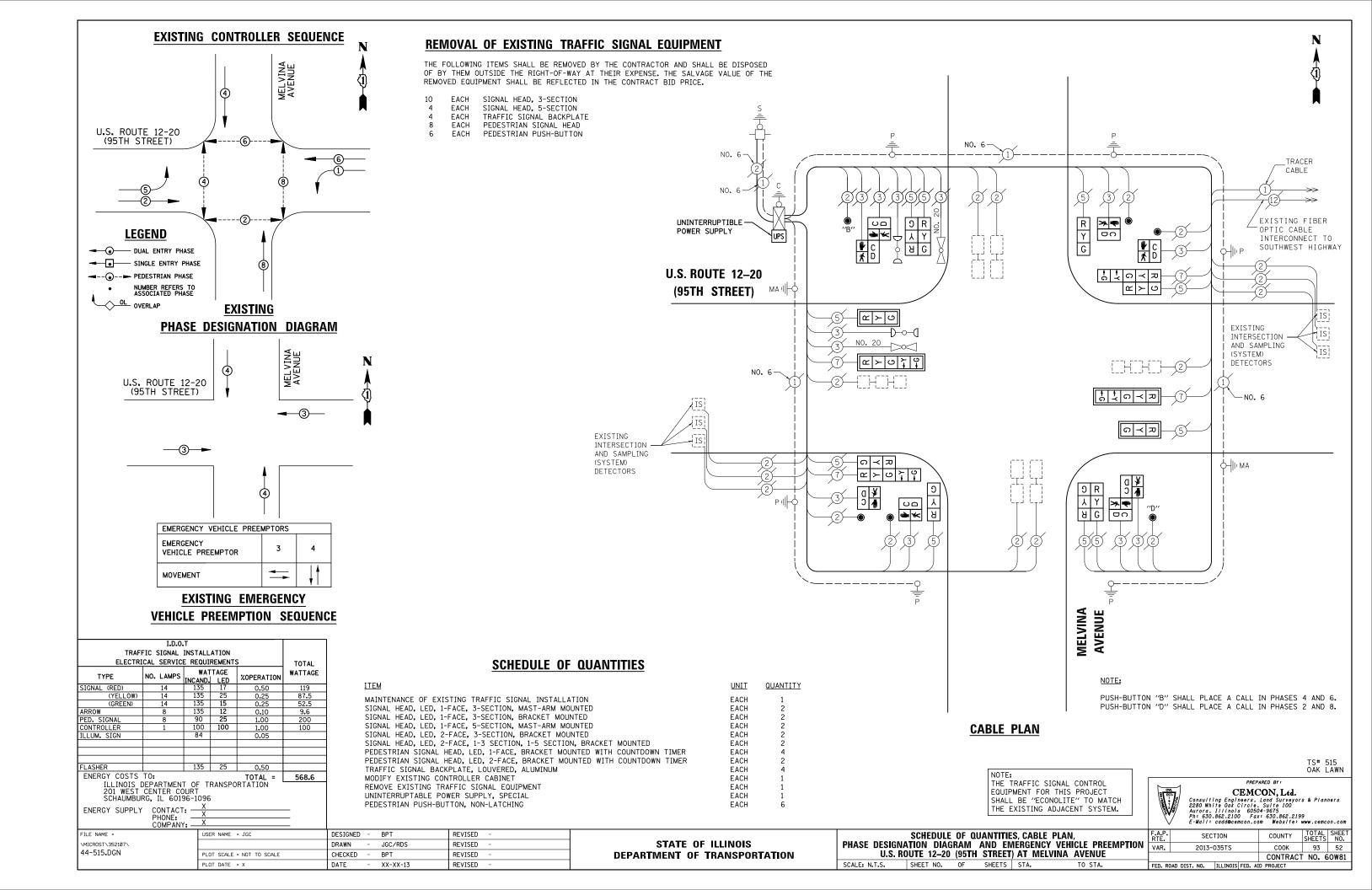


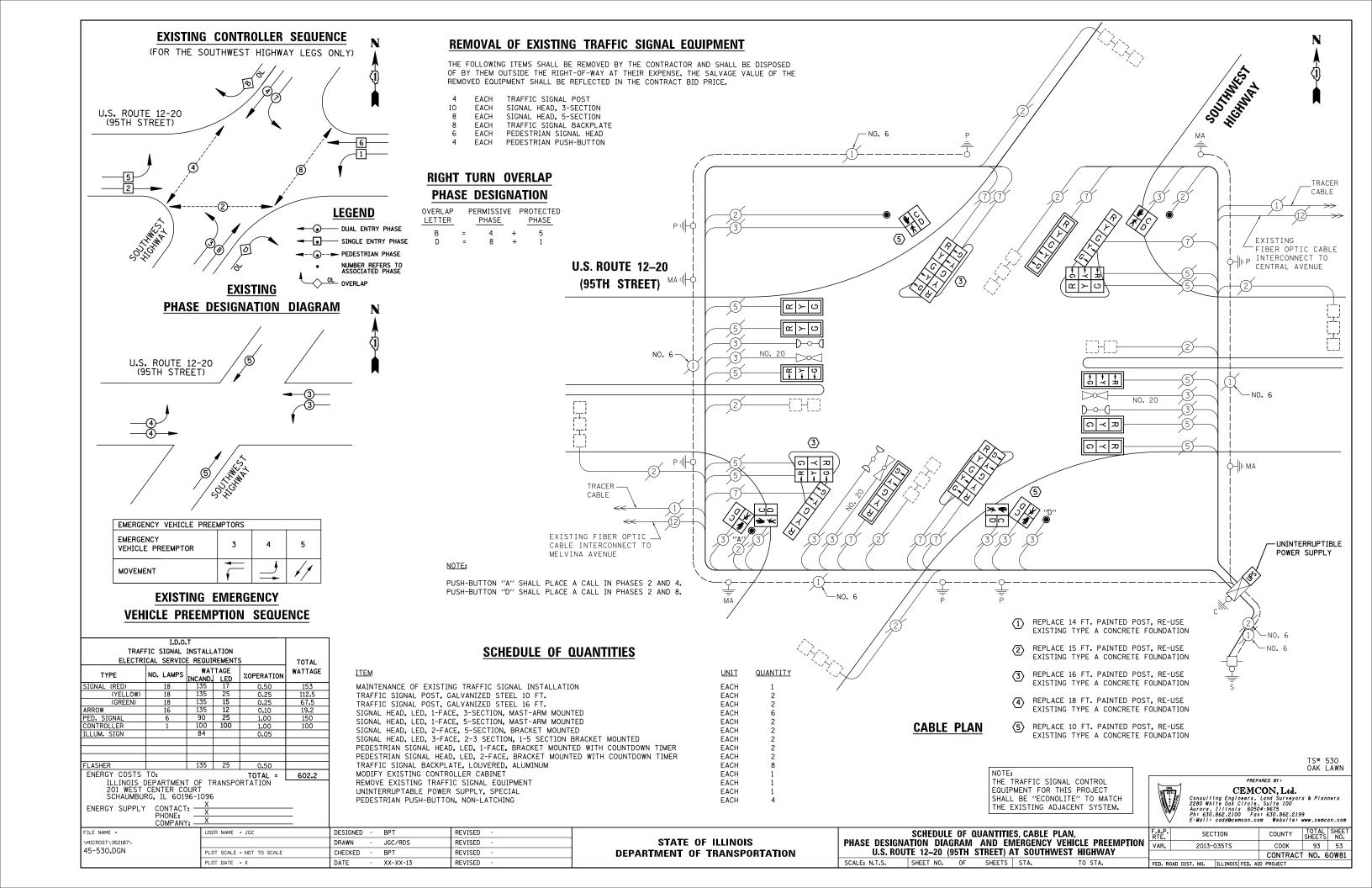


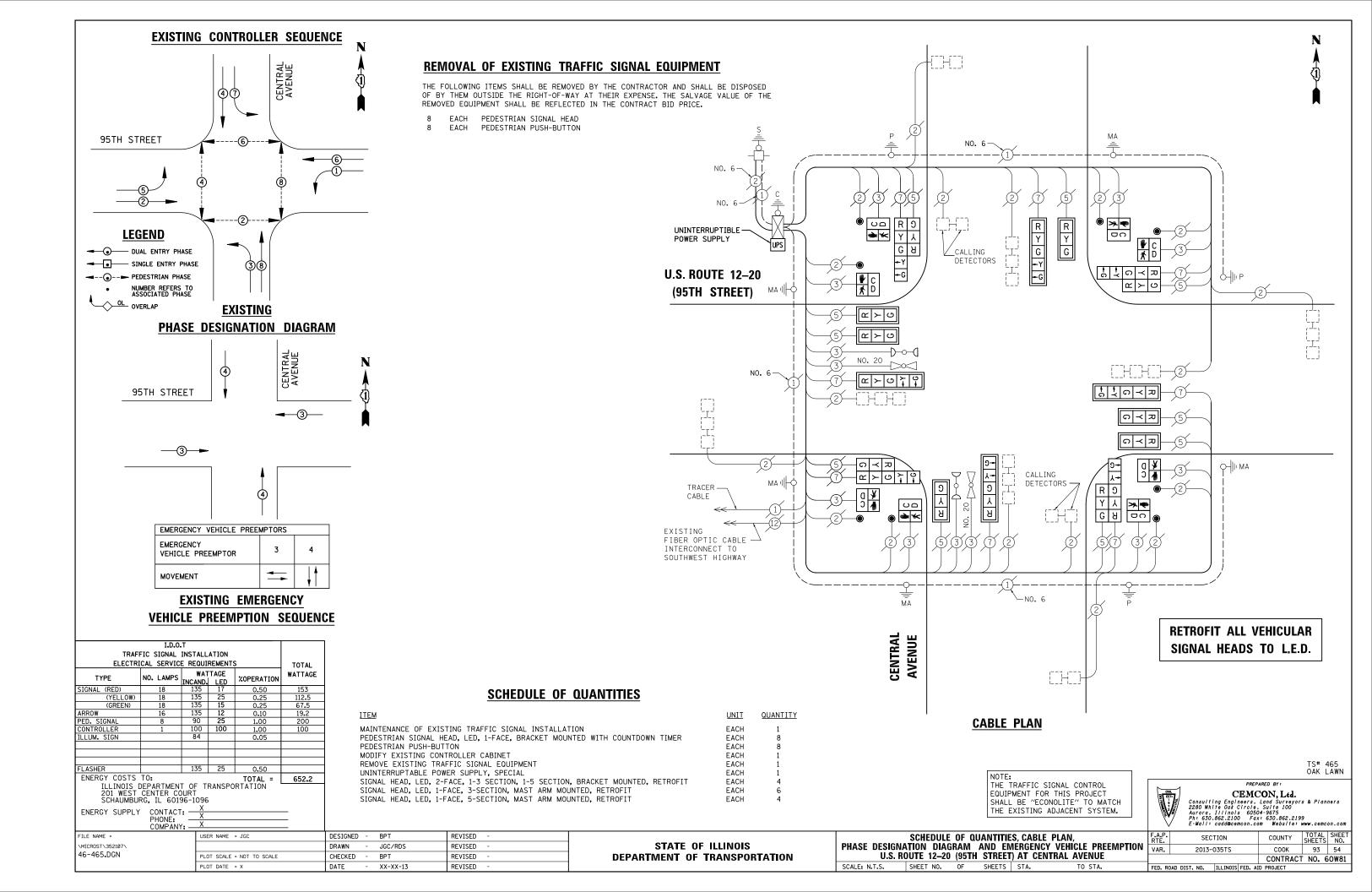


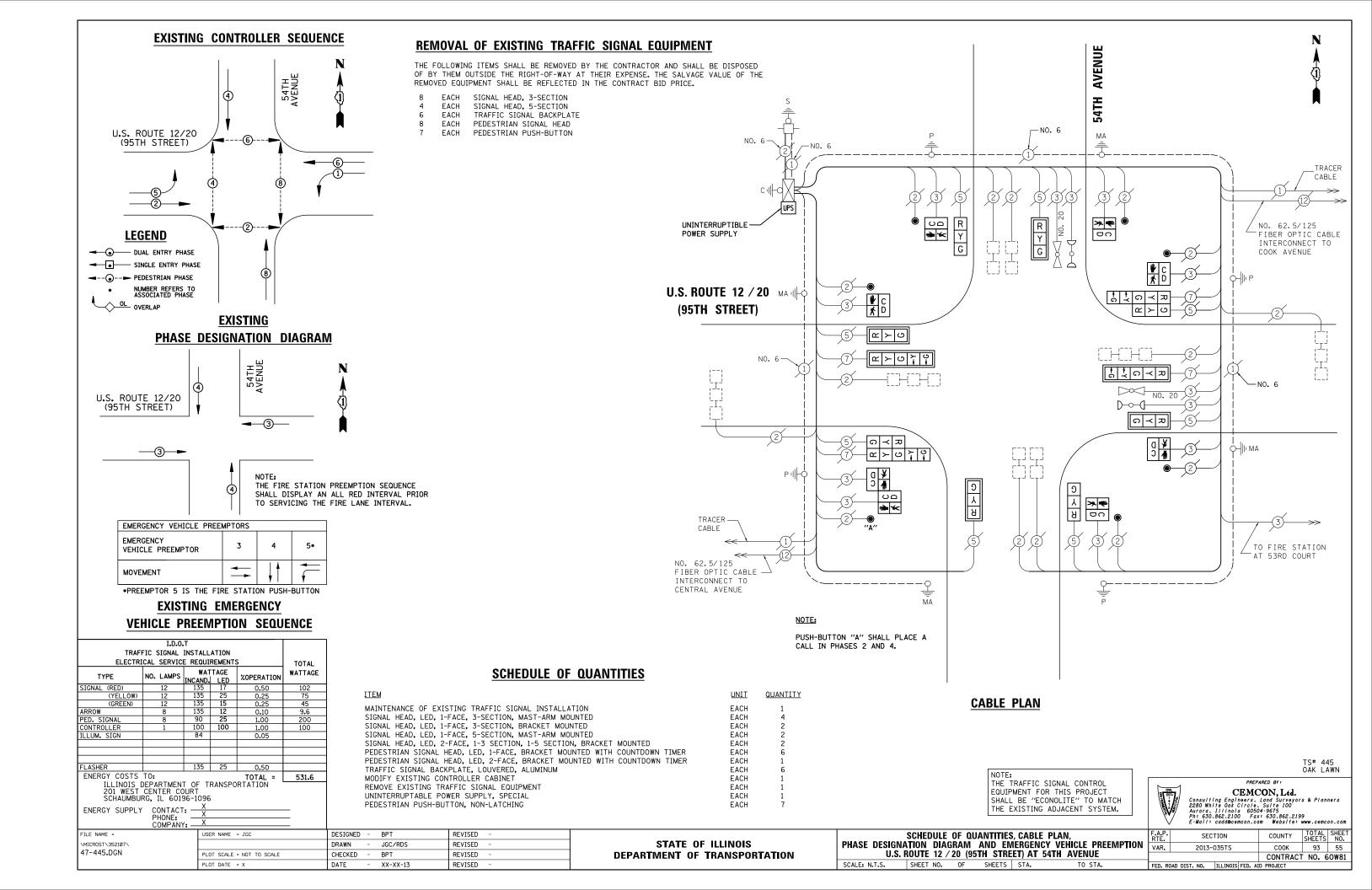


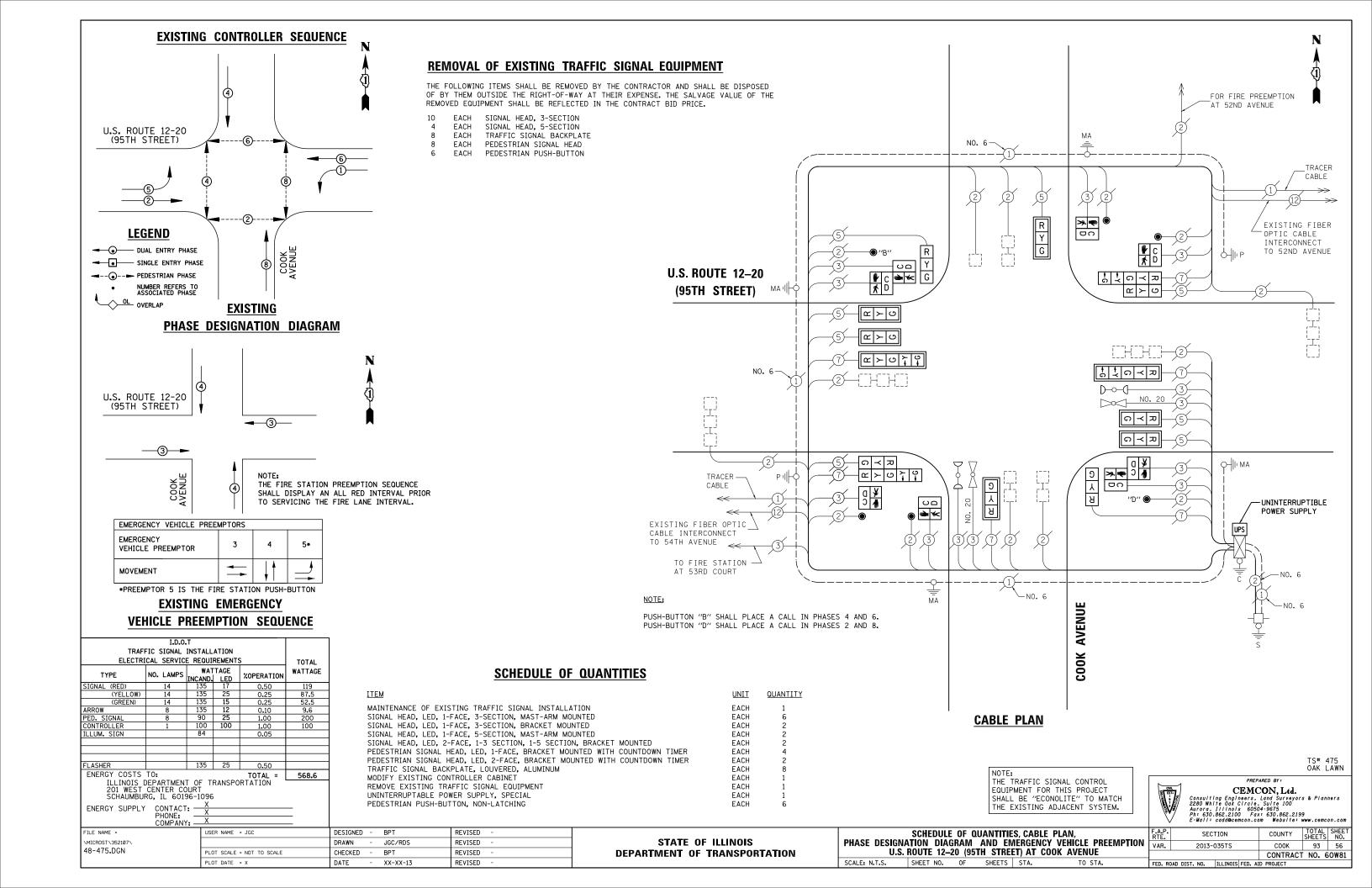


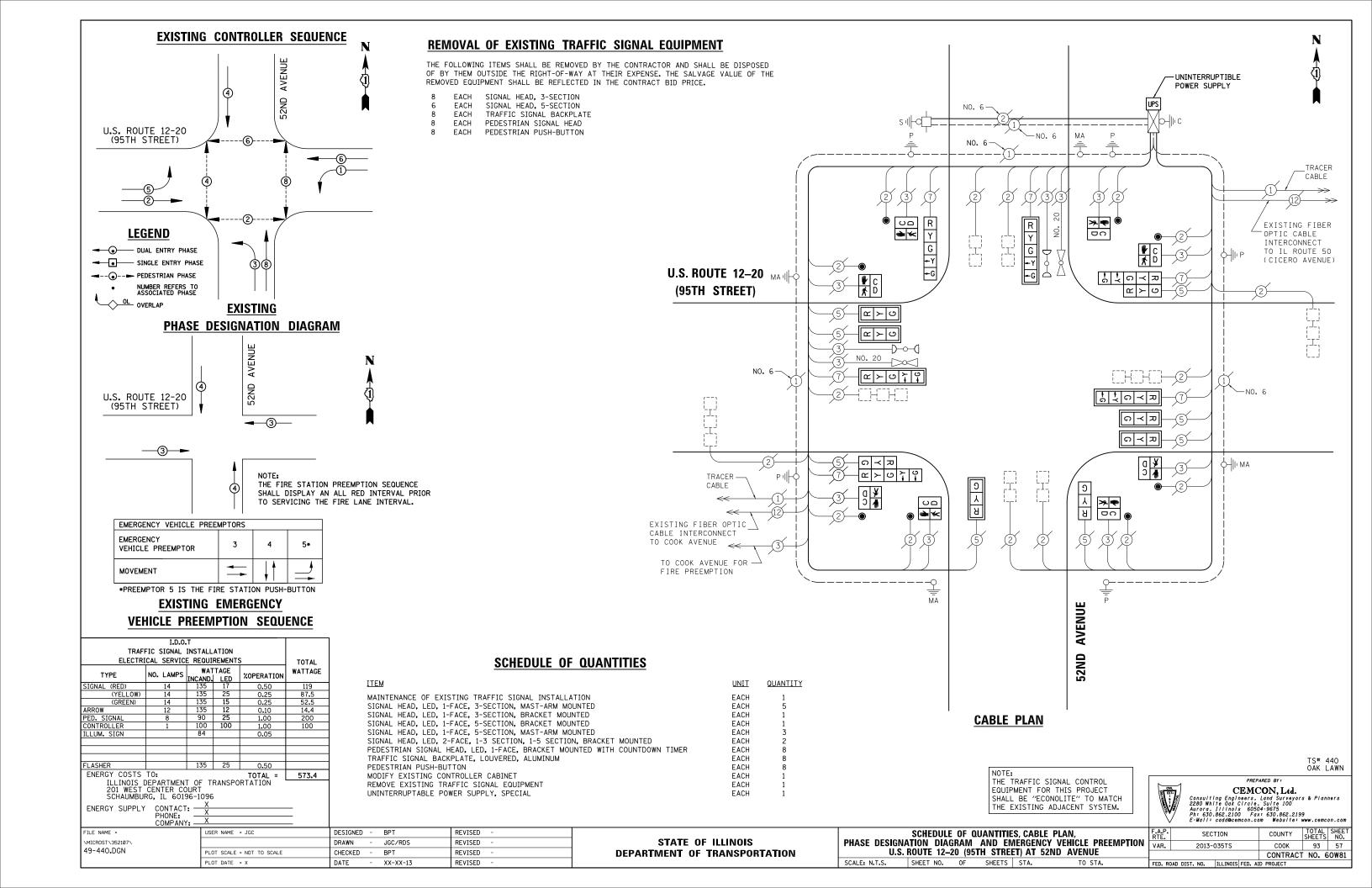


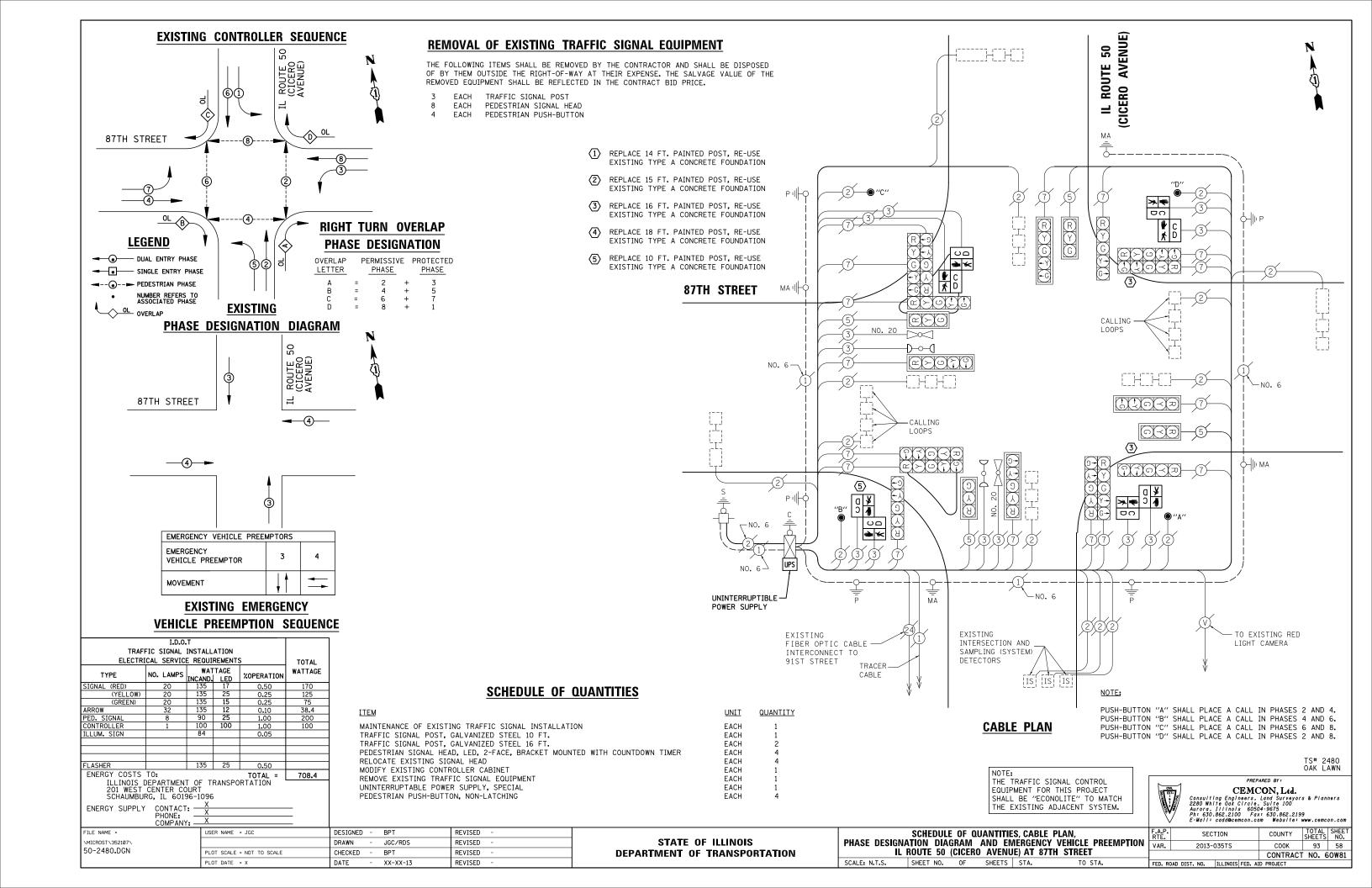


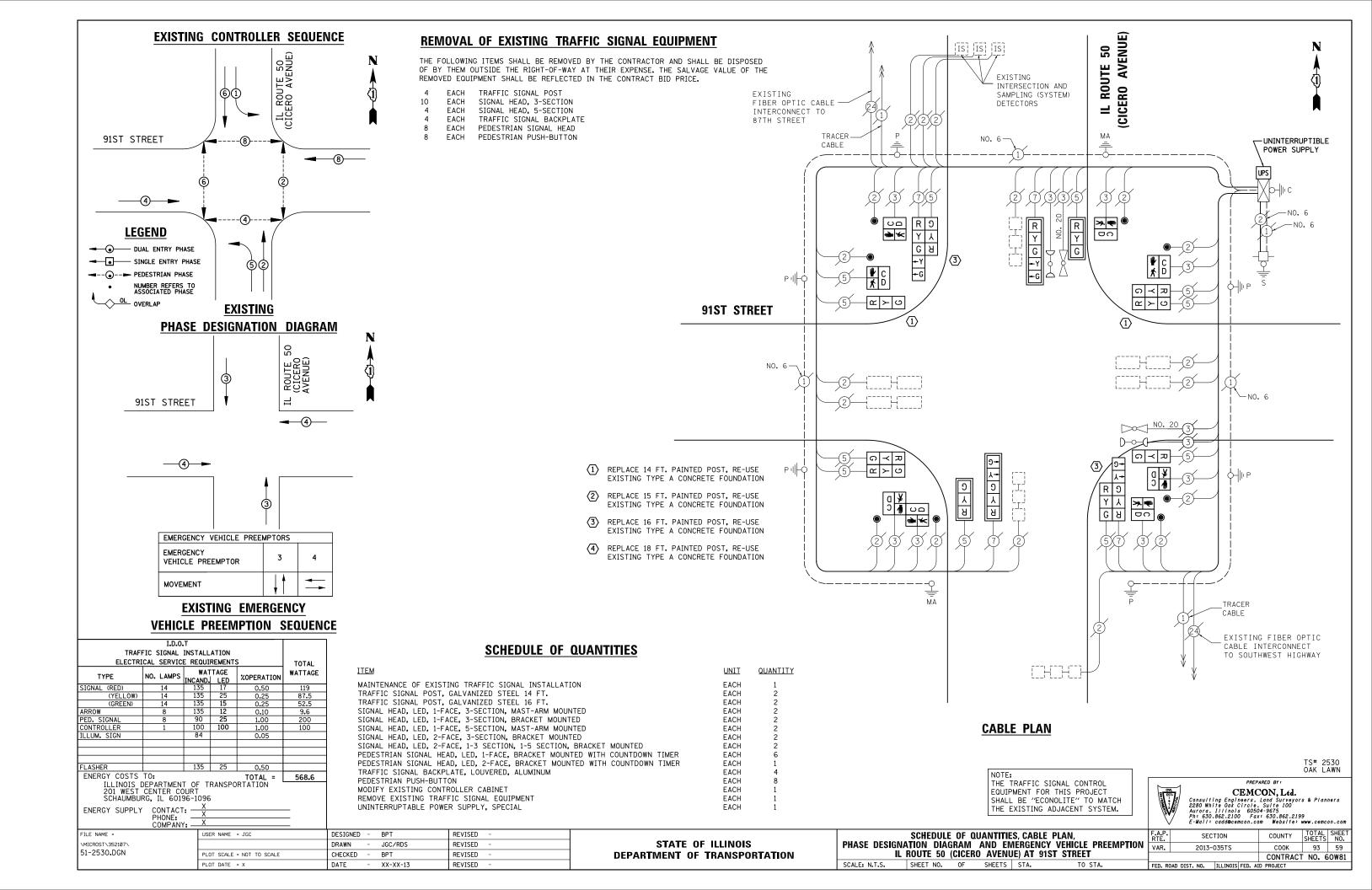




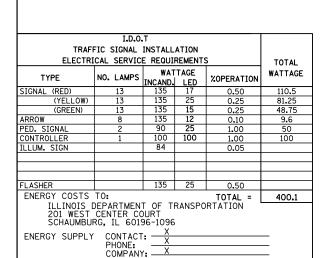








**SEE NEXT SHEET FOR CONTROLLER SEQUENCE** 



USER NAME = JGC

DESIGNED -

BPT

FILE NAME =

\MICROST\352107\

53-2485\_1.DGN

## **SCHEDULE OF QUANTITIES**

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

REVISED

EACH EACH EACH	1 1 1		

QUANTITY

<u>UNIT</u>

EXISTING FIBER OPTIC CABLE INTERCONNECT TO SOUTHWEST HIGHWAY

NO. 6-

TRACER-

CABLE

RAILROAD CONTROL CABINET

UNINTERRUPTIBLE -

POWER SUPPLY

(CICERO AVENUE) IL ROUTE

NO. 20

D-XOX

MA

NO. 6-

PREPARED BY CEMCON, Ltd.
Consulting Engineers. Land Surveyors & Planners
2280 White Oak Circle. Suite 100
Aurora 1 Olnois 68504-968
Aurora 50.862.2199
Fax: 803.862.2199
E-Mail: coddGeemcon.com Webbite: www.cemcon.com

COUNTY

EXISTING FIBER OPTIC CABLE INTERCONNECT TO 95TH STREET

TS# 2485 OAK LAWN

93 60

∽NO. 6

**STATE OF ILLINOIS** DRAWN JGC/RDS REVISED CHECKED BPT REVISED DATE REVISED PLOT DATE = X XX-XX-13

SCHEDULE OF QUANTITIES AND CABLE PLAN IL ROUTE 50 (CICERO AVENUE) AT 94TH STREET

(C)(2)(C)(2)(D)

VAR. 2013-035TS

SHEET NO. OF SHEETS STA.

**CABLE PLAN** 

**DEPARTMENT OF TRANSPORTATION** 

94TH STREET

SCALE: N.T.S.

СООК CONTRACT NO. 60W81

SECTION

TRACER CABLE

F.A. RTE.	SECT10	N	COUNT	Y	TOTAL	SHEET NO.	
	06-00169-	OO-TL	COOK		53	34	
	CONTRACT	NO. 630	39				
FED. R	DAD DIST. NO.	ILLINOI	S FED.	AID	PRO_ECT		

## SEQUENCE OF OPERATION

MOVEMENT N →		5 –	1		*	- 6 - 1	5 - 2 -	<i>→</i>		2→	-6		<b>†</b>	B	4	F
PHASE		1	+ 5		1	+ 6	2	+ 5		2+6			4 -	- 8		] [
INTERVAL	1	2	3	4	5	6	7	8	9	10A	10B	11	12	13A	13B	1 ^
CHANGE TO	/	1+6	2+5	2+6		2+6		2+6		4	+8			1- 2-	+5 +6 +5 +6	S H
IL ROUTE 50 (CICERO AVENUE) N/B FAR RIGHT SIGNAL	R	R	R	R	R	R	G	G	G	Υ	R	R	R	R	R	R
IL ROUTE 50 (CICERO AVENUE) N/B END MAST ARM AND FAR LEFT SIGNALS	R ◆-G	R	R <b>←</b> G	R — Y	R	R	G <b>◆</b> •G	G —Y	G	Υ	R	R	R	R	R	R
IL ROUTE 50 (CICERO AVENUE) S/6 NEAR AND FAR RIGHT SIGNALS	R	R	R	R	G	G	R	R	G	Υ	R	R	R	R	R	R
IL ROUTE 50 (CICERO AVENUE) S/6 END MAST ARM AND FAR LEFT SIGNALS	R <b>←</b> G	R ←G	R ← Y	R -Y	G <b>←</b> G	G Y	R	R	G	Y	R	R	R	R	R	R
94TH STREET E/8 ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
94TH STREET W/8 ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUE) ON SOUTH SIDE OF 94TH STREET	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	* W	**FL DW	DW	DW	DARK

PHASE 2+6 SHALL BE PLACED ON RECALL

- \* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- \*\* FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.
  - W = "WALK"
  - FL = FLASHING "DON'T WALK"
  - DW = "DON'T WALK"

	RAILROAD	PREEMPTION	SEQUENCE OF	<b>OPERATION</b>
--	----------	------------	-------------	------------------

									NUM	BER 3	NUM	BER 4	NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		7		9	1	1									
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER										2		3					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	2	3	4	5	CLEAR
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	2	10	2	1F	2	1H	2	1K	2	1M	2	3	4	5		NORMAL SEQUENCE
IL ROUTE 50 (CICERO AVENUE) N/B FAR RIGHT SIGNAL	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	R	R	Δ
IL ROUTE 50 (CICERO AVENUE) N/B END MAST ARM AND FAR LEFT SIGNALS	R <del>-</del> Y	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	R	R	Δ
IL ROUTE 50 (CICERO AVENUE) S/B NEAR AND FAR RIGHT SIGNALS	R	G	R	R	G	G	R	R	G	G	R	R	G	Υ	R	R	Δ
IL ROUTE 50 (CICERO AVENUE) S/B END MAST ARM AND FAR LEFT SIGNALS	R - G	G G	R	R	G	G	R	R	G	G	R	R	G ←G	Υ	R	R	Δ
94TH STREET E/B ALL SIGNALS	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	G	Δ
94TH STREET W/B	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	G	Δ
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUE) ON SOUTH SIDE OF 94TH STREET	DW	DW	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
																HOLD	

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

																PREEMPTOR NUMBER 3	NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	5	-	5	7		7	9	,	9		11		11		Lle	
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	10	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	2	3	CLEAR TO
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		OR 3	2	10	3	2	1G	3	2	1K	3	1M	1N	2	3			NORMAL SEQUENCE
ROUTE 50 (CICERO AVENUE) N FAR RIGHT SIGNAL	/B	R	R	R	R	G	Υ	R	G	Υ	R	R	R	R	R	G	R	0
IL ROUTE 50 (CICERO AVENUE) N END MAST ARM AND FAR LEFT SIGNALS	/B	R ◆-Y	R	R	R	G ← Y	Υ	R	G	Υ	R	R	R	R	R	G	R	<b>◊</b>
IL ROUTE 50 (CICERO AVENUE) S NEAR AND FAR RIGHT SIGNALS	/B	R	G	Y	R	R	R	R	G	Υ	R	R	R	R	R	G	R	0
IL ROUTE 50 (CICERO AVENUE) S END MAST ARM AND FAR LEFT SIGNALS	/B	R ←Y	G <b>←</b> Y	Y	R	R	R	R	G	Υ	R	R	R	R	R	G	R	<b>◊</b>
94TH STREET E ALL SIGNALS	/B	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	G	<b>◊</b>
94TH STREET W ALL SIGNALS	I/B	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	G	٥
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERC AVENUE) ON SOUTH SIDE OF 94TH STREET		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	FL	DW	DW	FL DW	DW	DW	<b>◊</b>

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.

PREEMPTOR PREEMPTOR

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

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "3M OPTICOM" TO MATCH THE EXISTING SYSTEM AND MUNICIPAL REQUIREMENTS

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN XION ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED IN XION 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.

⚠ INSTALLATION OF EMERGENCY VEHICLE PREEMPTION

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 500
Rosemont, Illinois 50018
1477 823-0500

DATE ILLINOIS DEPARTMENT OF TRANSPORTATION SEQUENCE OF OPERATION, RAILROAD PREEMPTION SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL 50 (CICERO AVENUE) AND 94TH STREET

DRAWN BY FN DATE 3/20/08 CHECKED BY GMZ

**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
F-Wall: cadd@cemcon.com Website: www.cemcon.co.

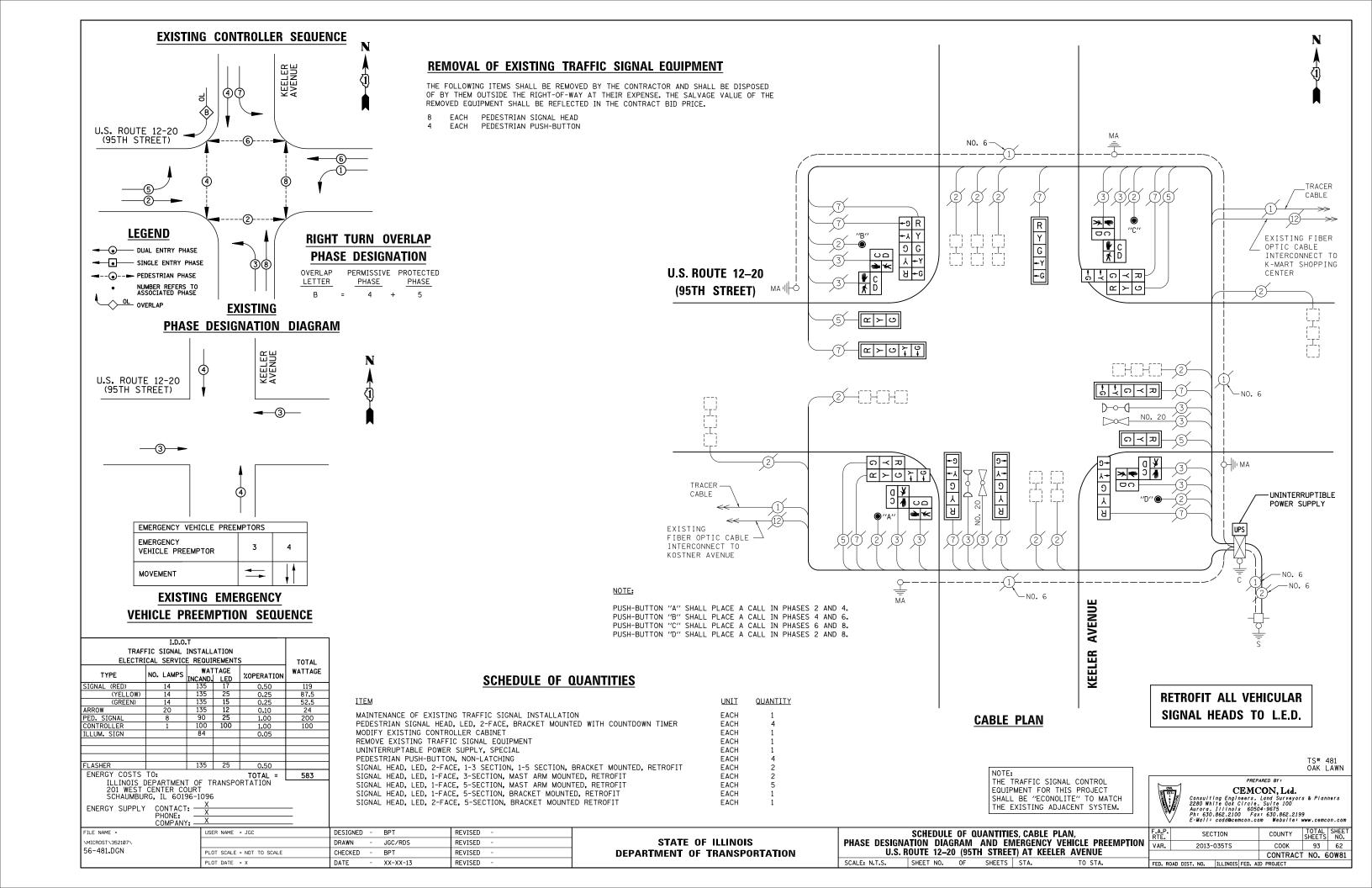
FILE NAME =	USER NAME = JGC	DESIGNED - BPT	REVISED -
\MICROST\352107\		DRAWN - JGC/RDS	REVISED -
53-2485_2.DGN	PLOT SCALE = NOT TO SCALE	CHECKED - BPT	REVISED -
	PLOT DATE = X	DATE - XX-XX-13	REVISED -

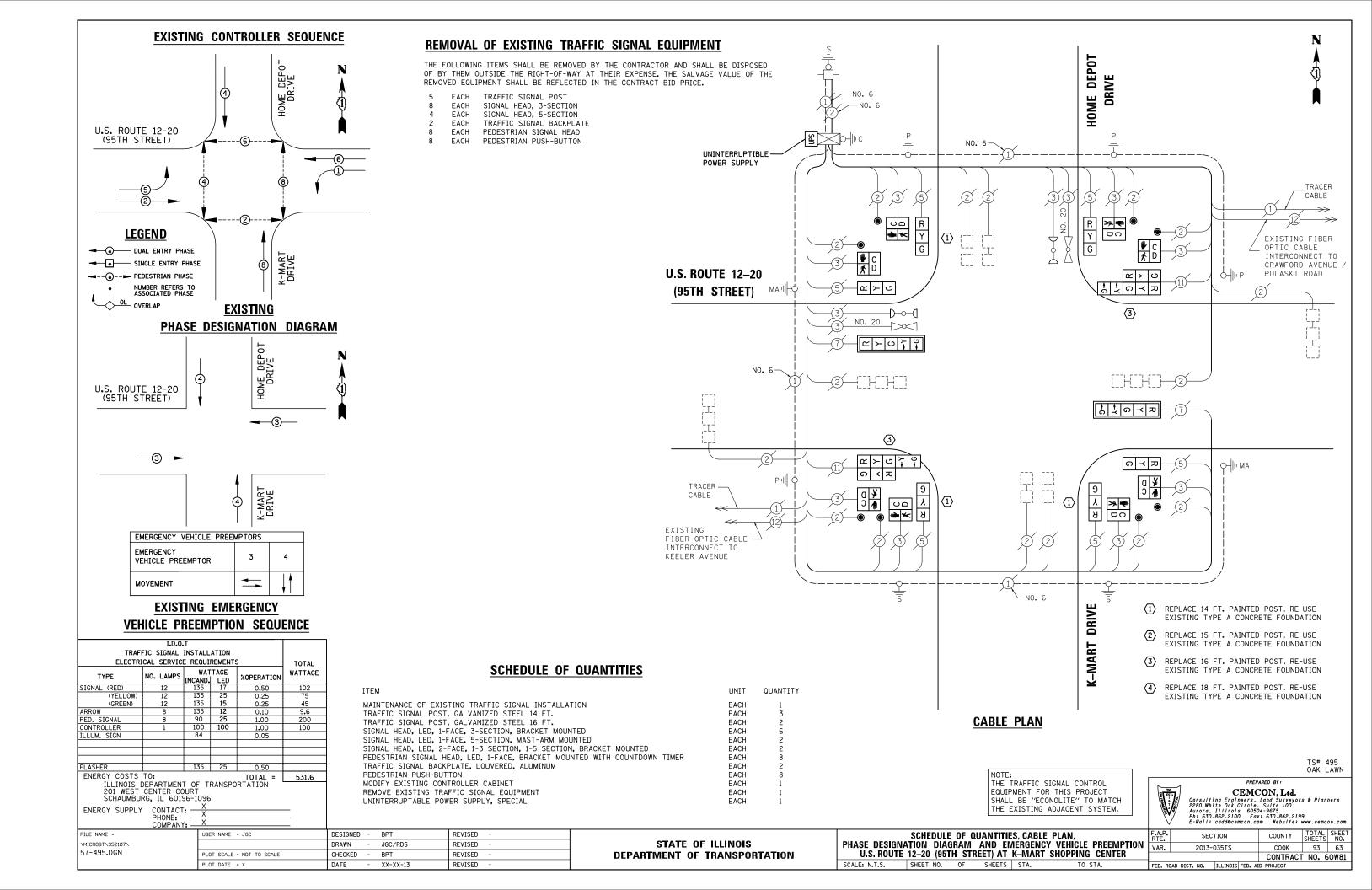
SEQUENCE OF OPERATION, RAILROAD PREEMPTION SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION IL ROUTE 50 (CICERO AVENUE) AT 94TH STREET

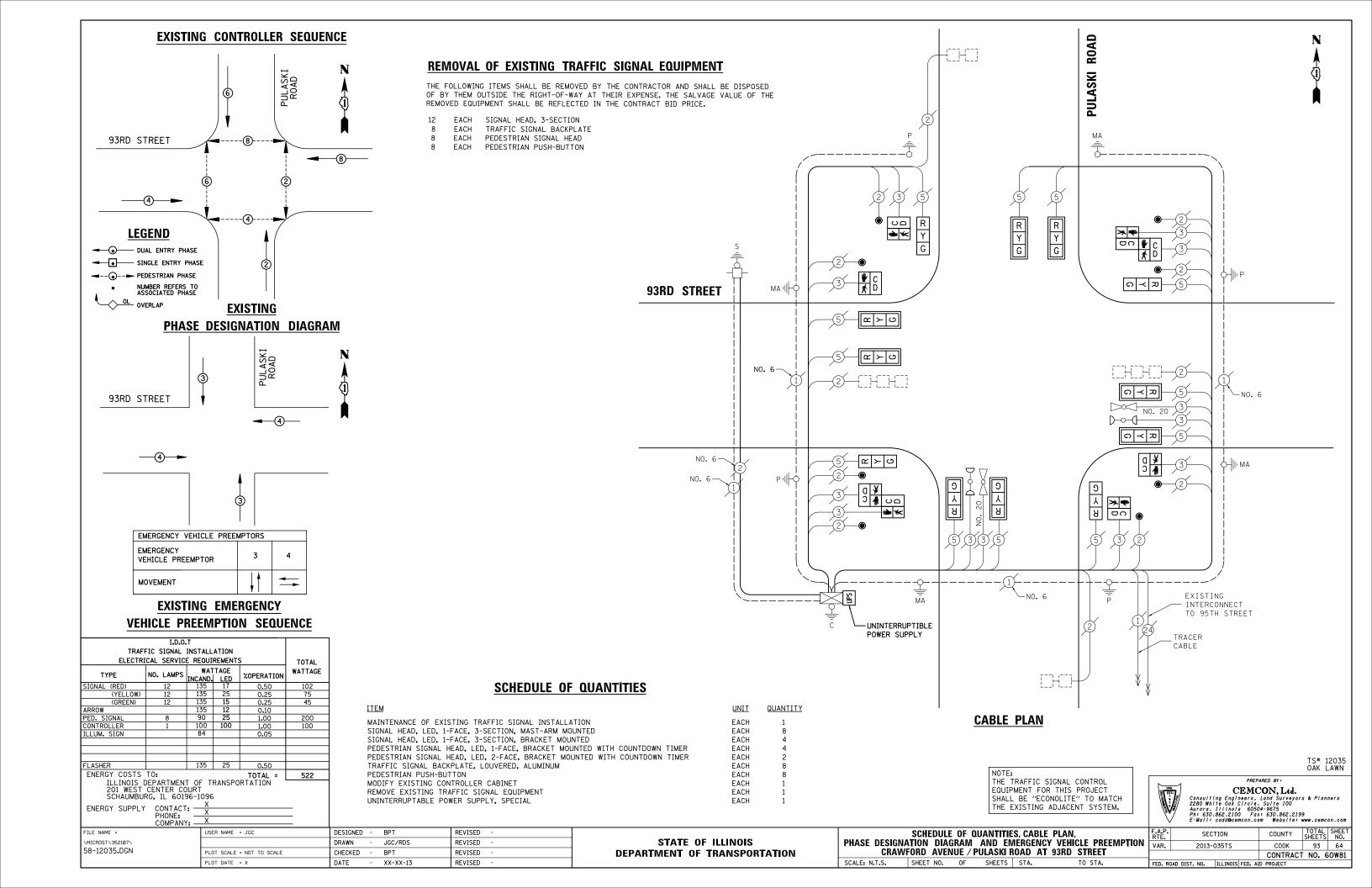
\	/ E-Mail:	cadd <b>o</b> cei	com	Website:	www.cemc	on.com				
F.A.P. RTE.	SEC <sup>-</sup>	TION			COUNTY	TOTAL SHEETS	SHEET NO.			
VAR.	2013-0	035TS			COOK	93	61			
CONTRACT NO. 60W81										
FED. RO	DAD DIST. NO.	ILLINOIS	FED.	AID	PROJECT					

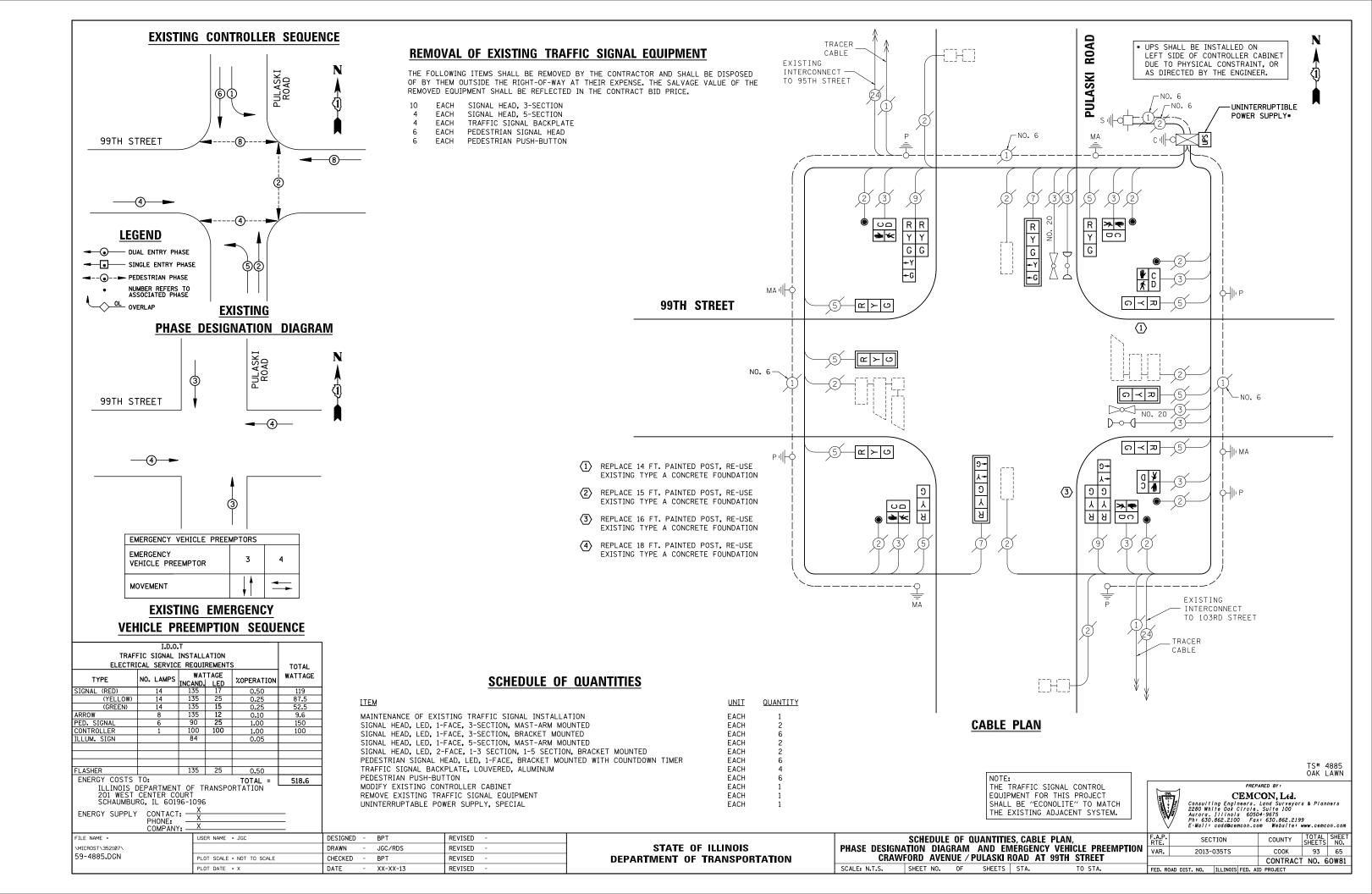
TS# 2485 OAK LAWN

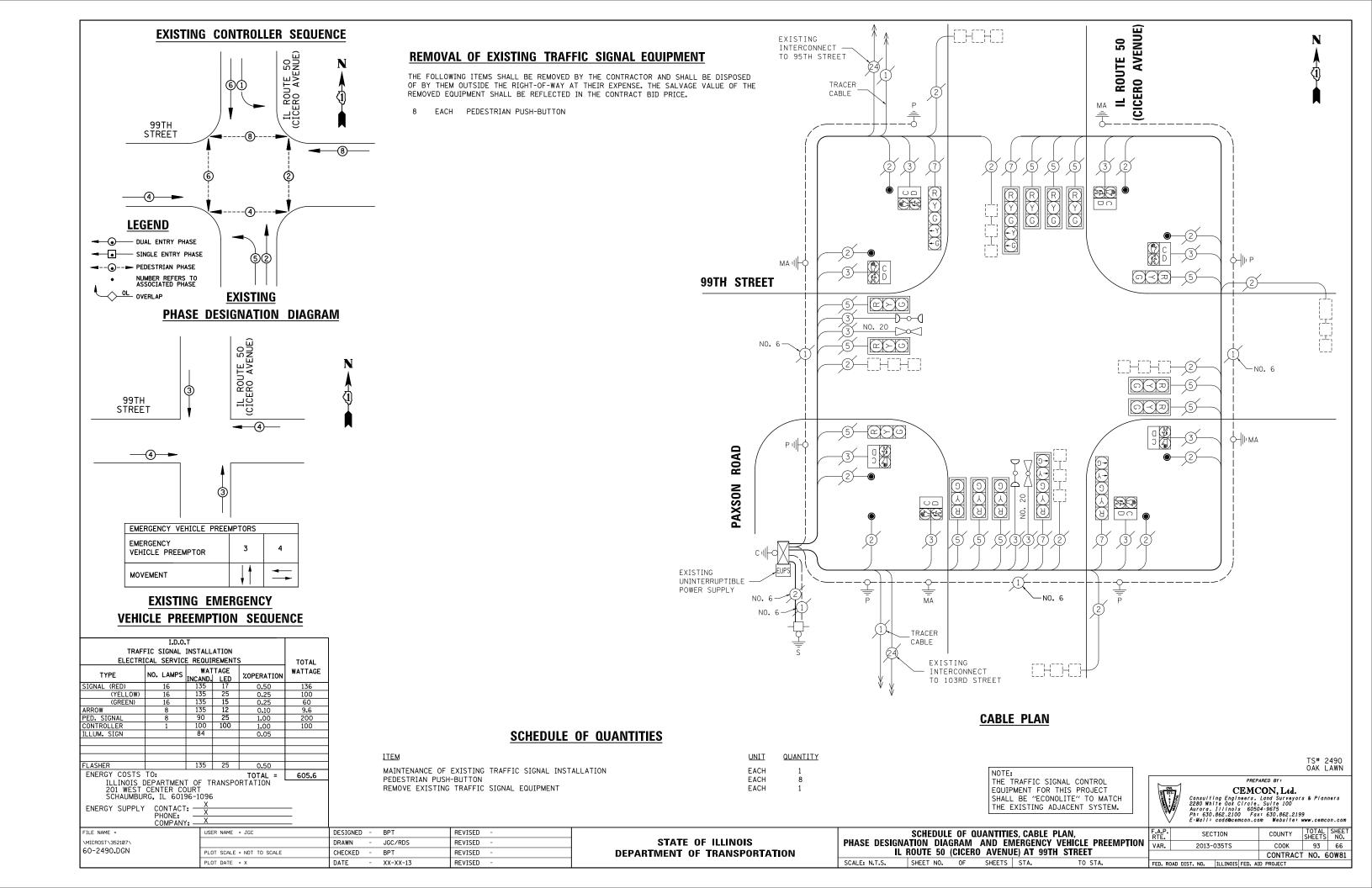
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** DATE REVISED SCALE: N.T.S. SHEET NO. OF SHEETS STA. - XX-XX-13

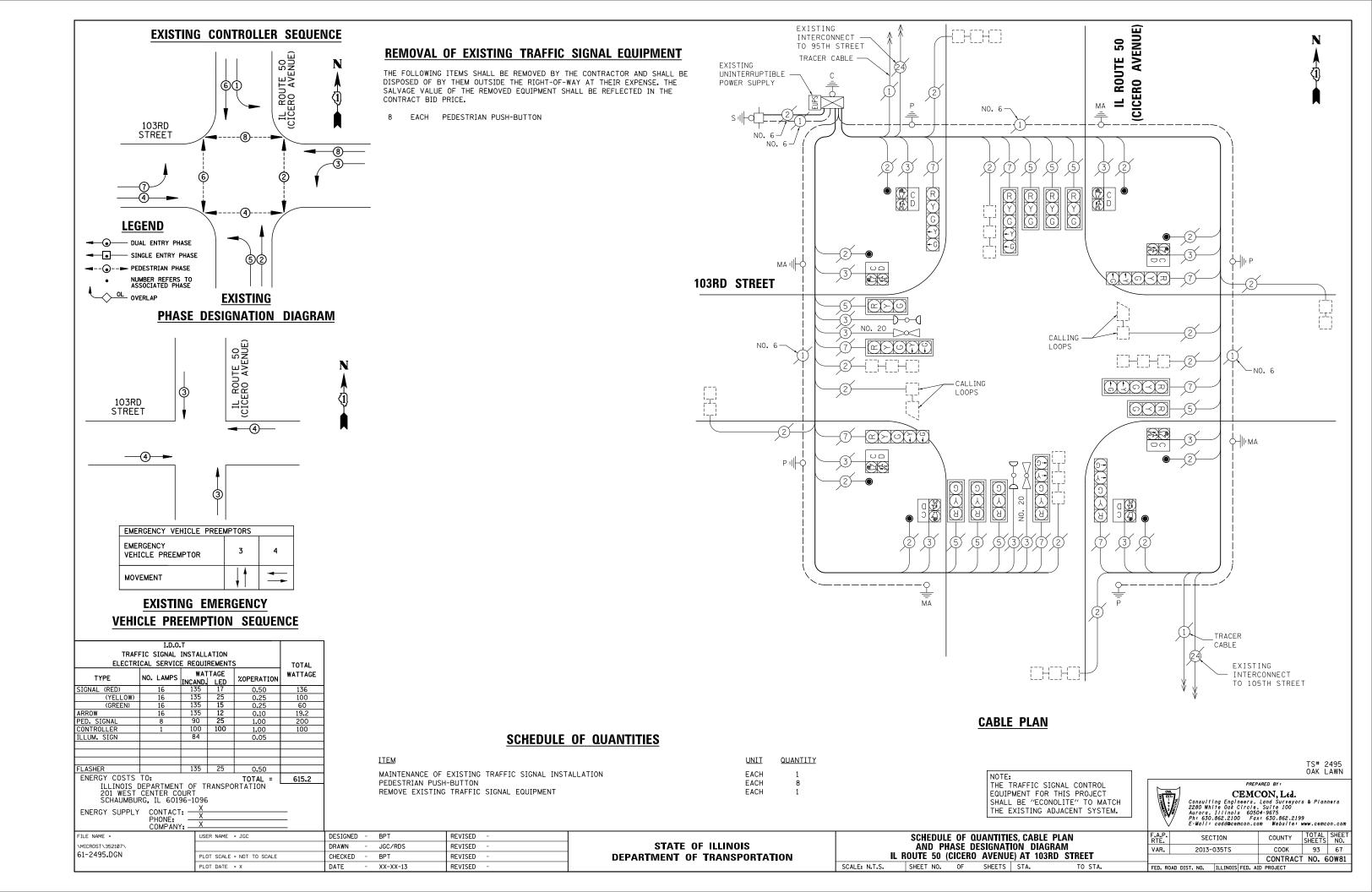


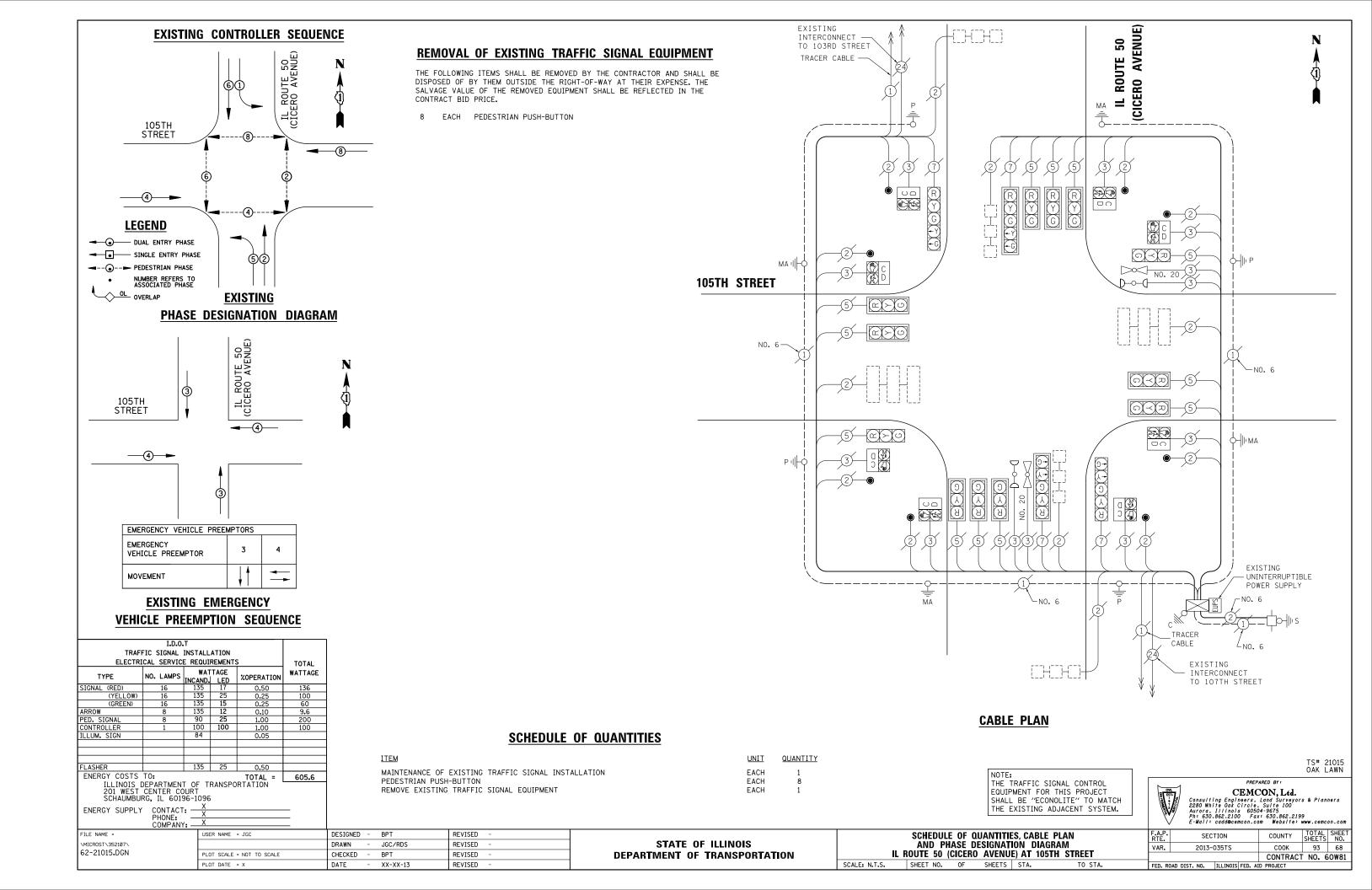


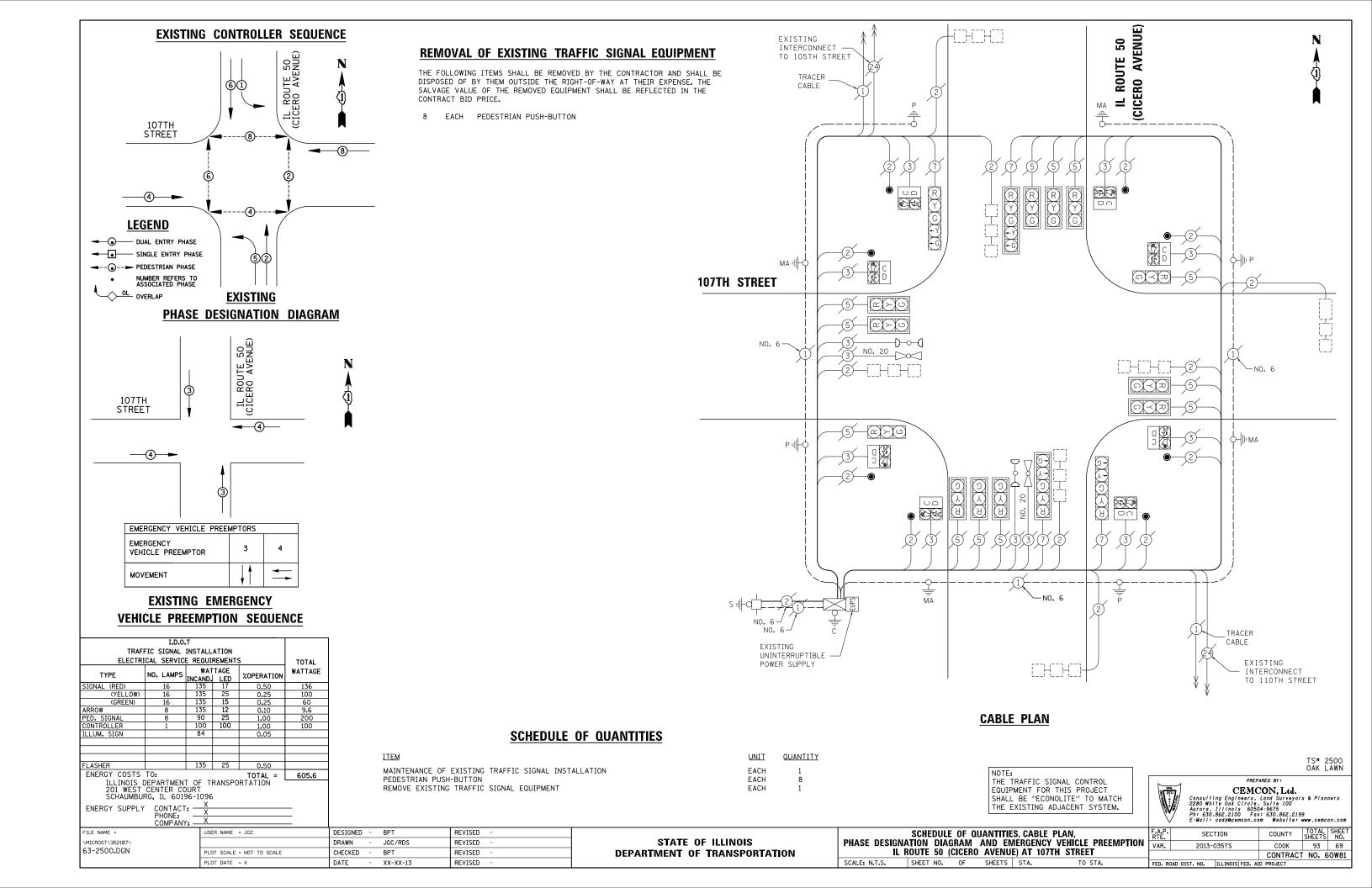


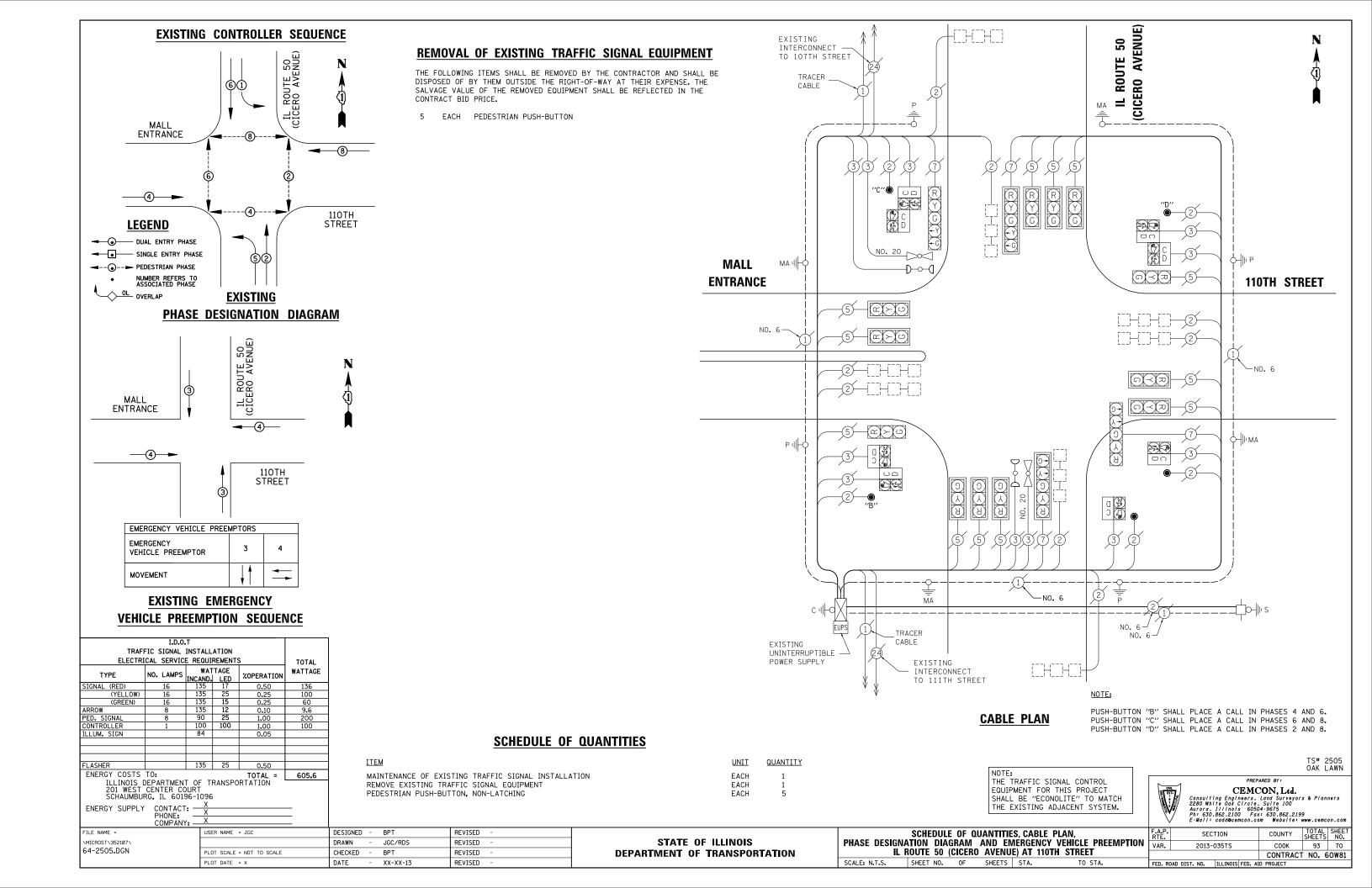


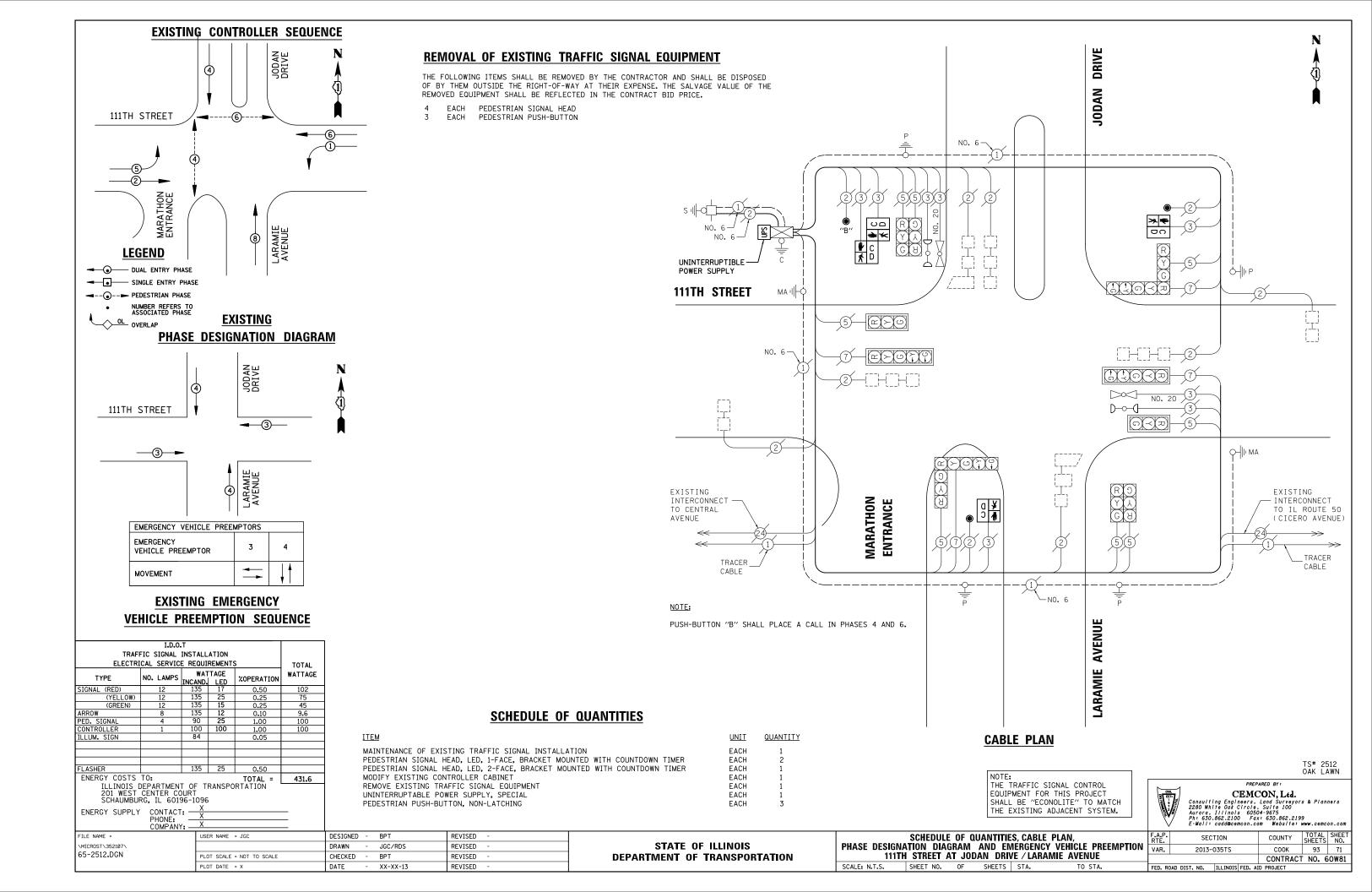


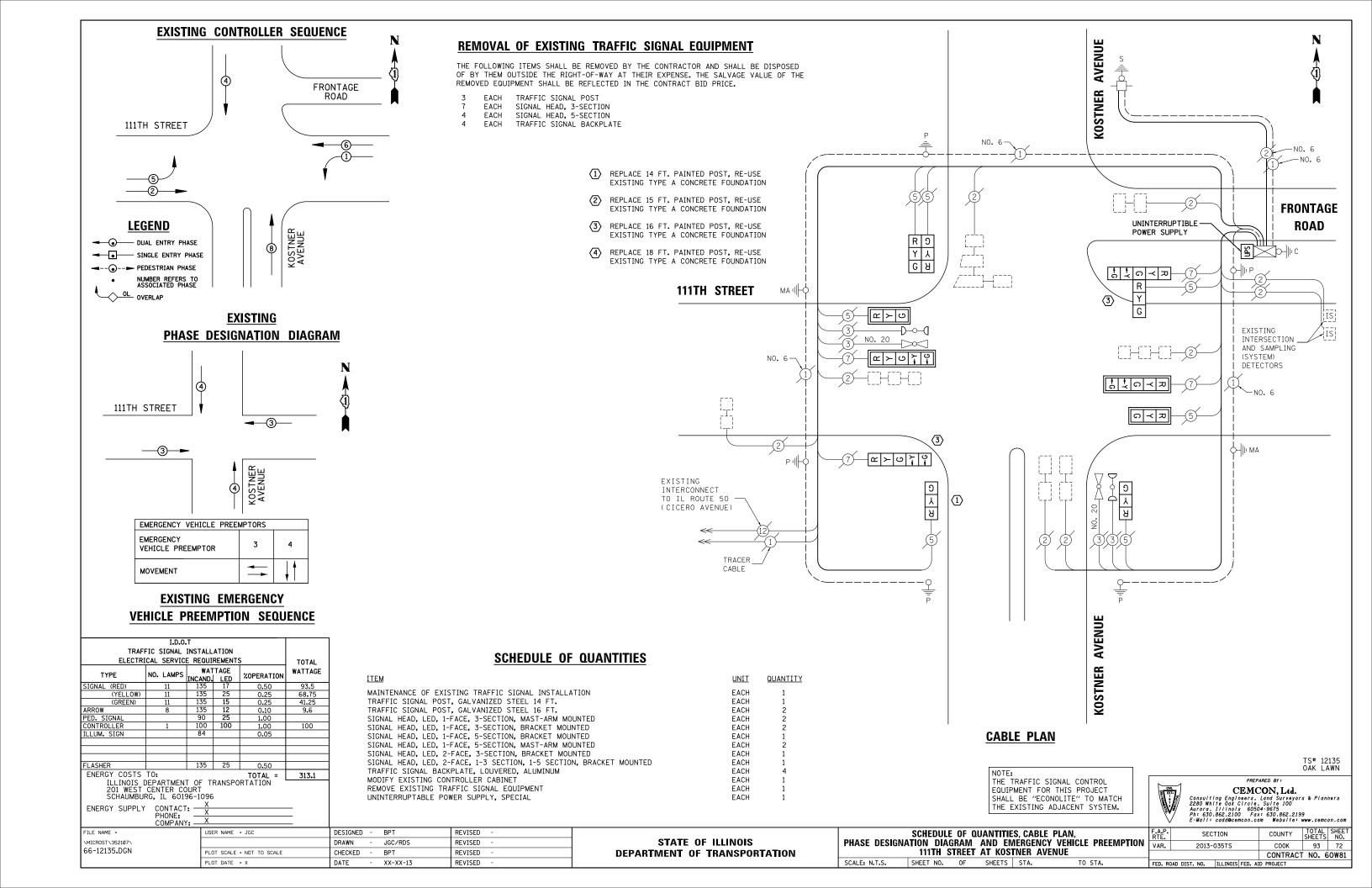


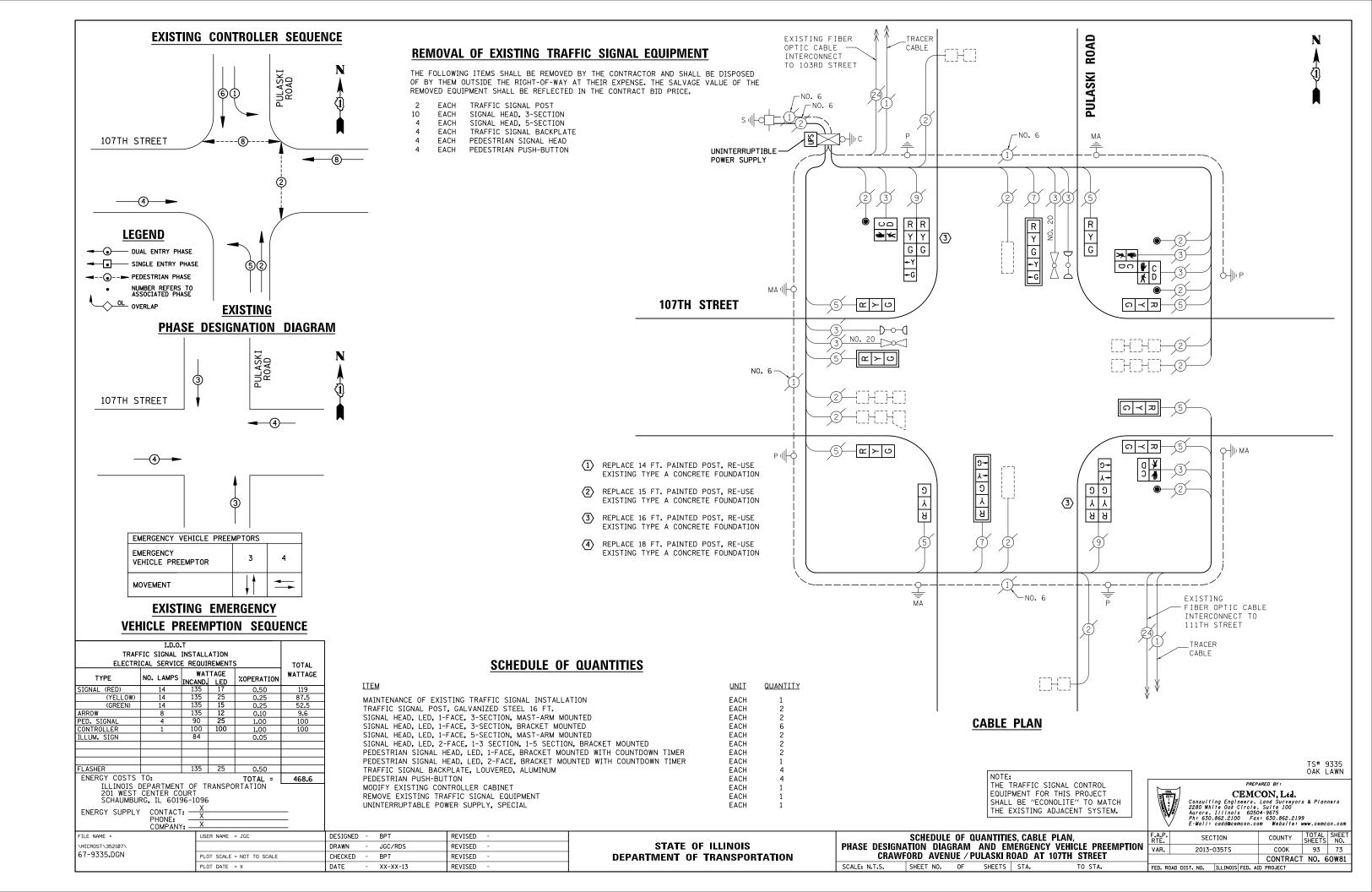


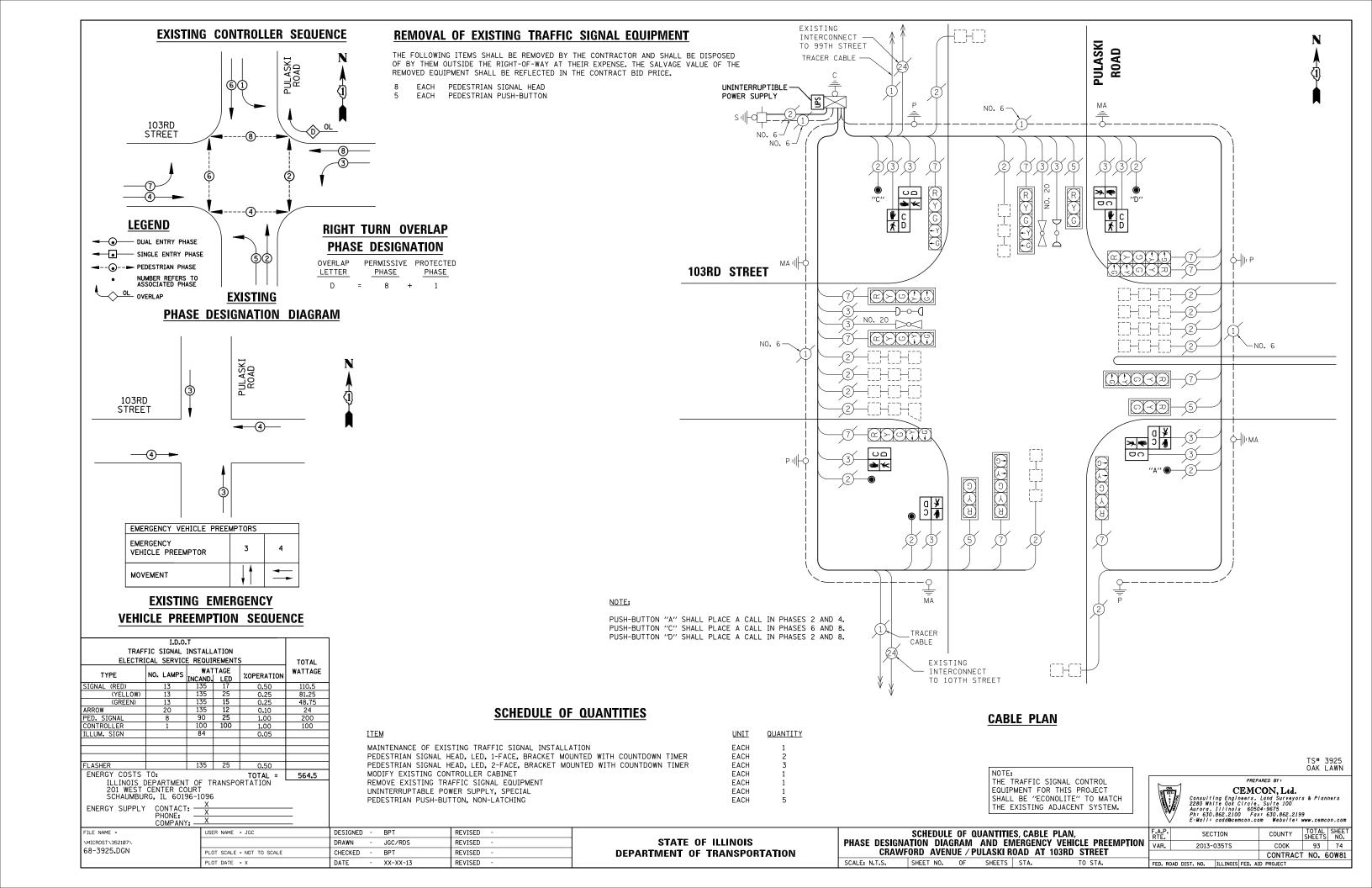


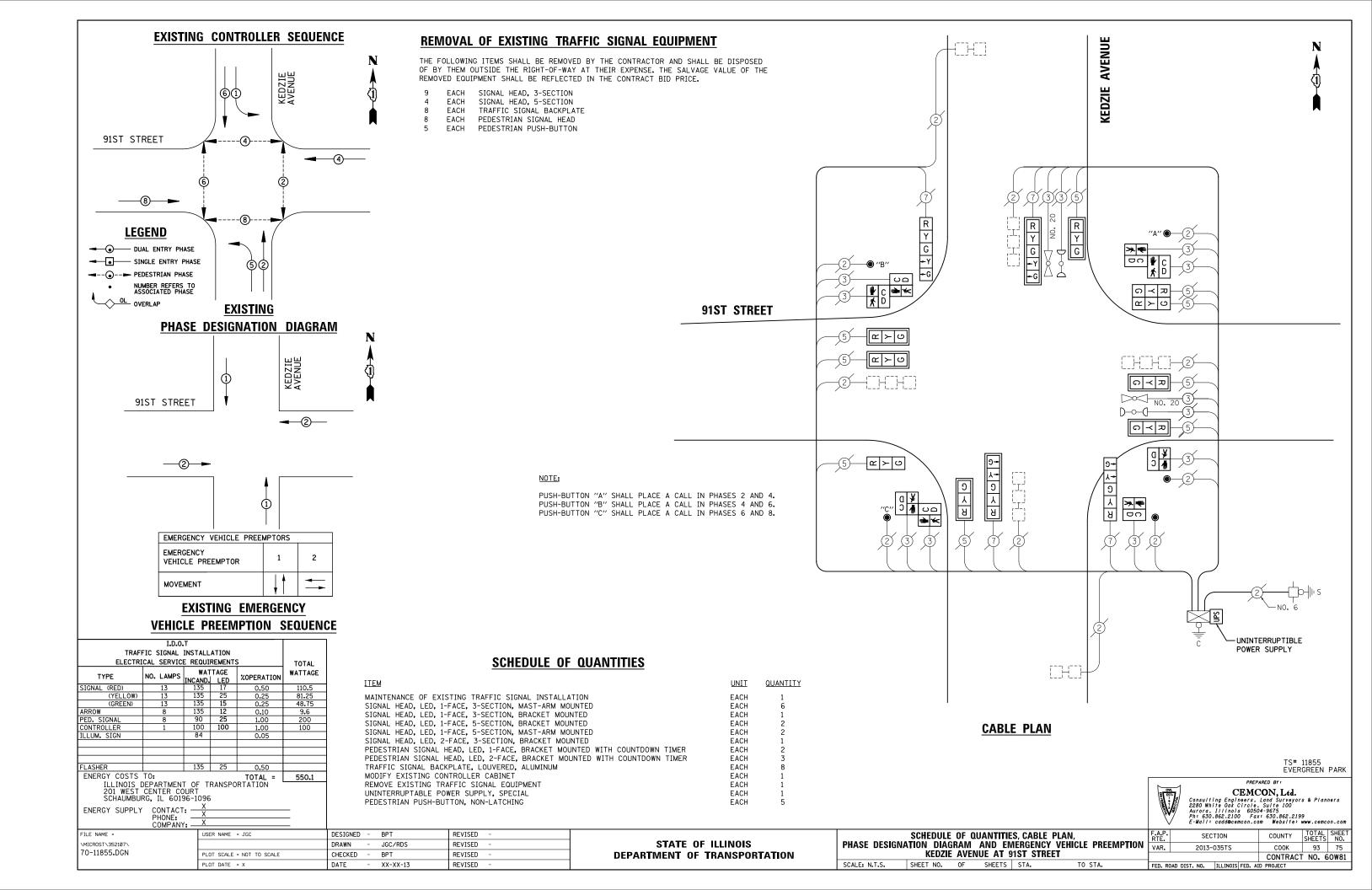


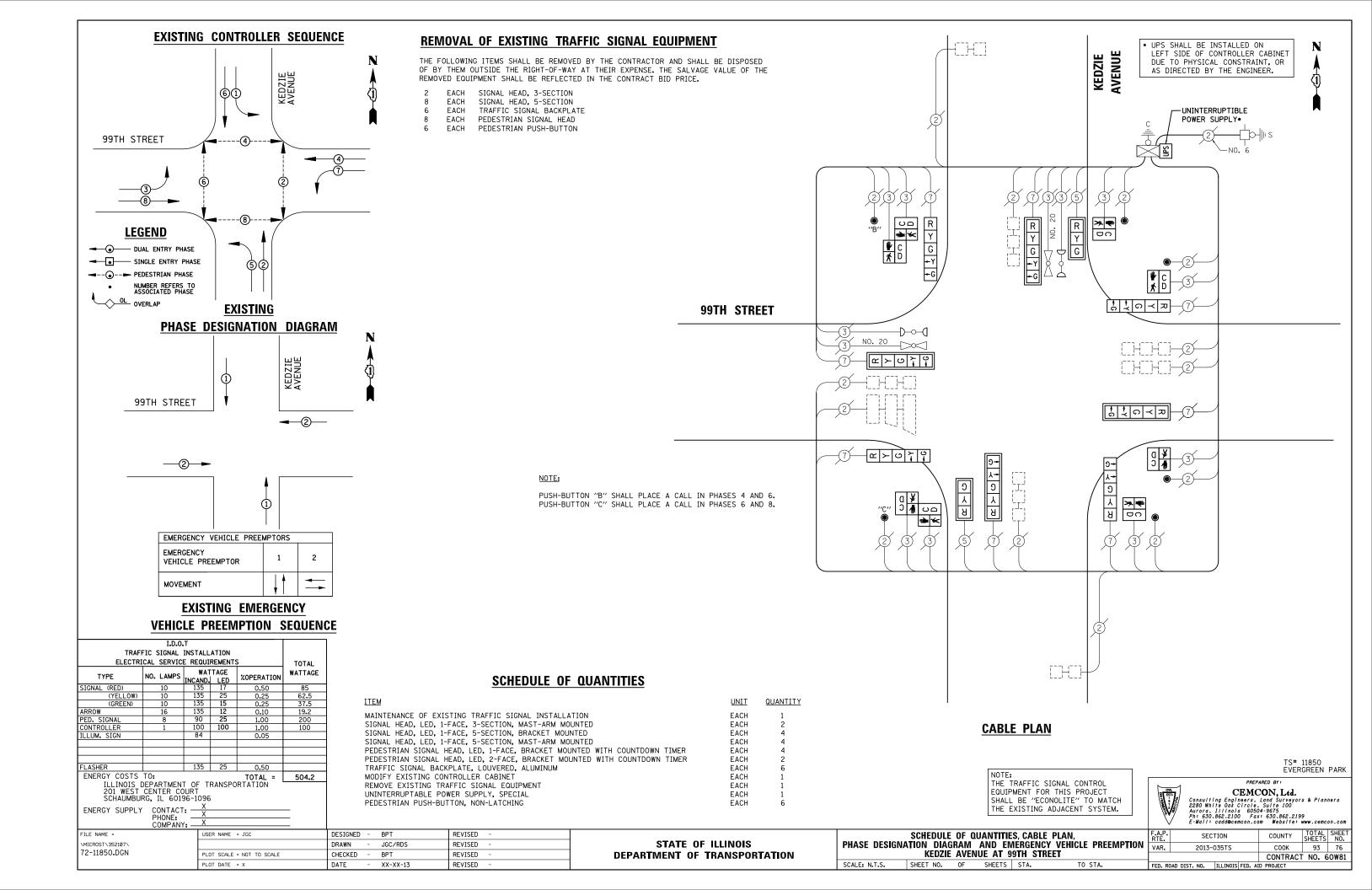


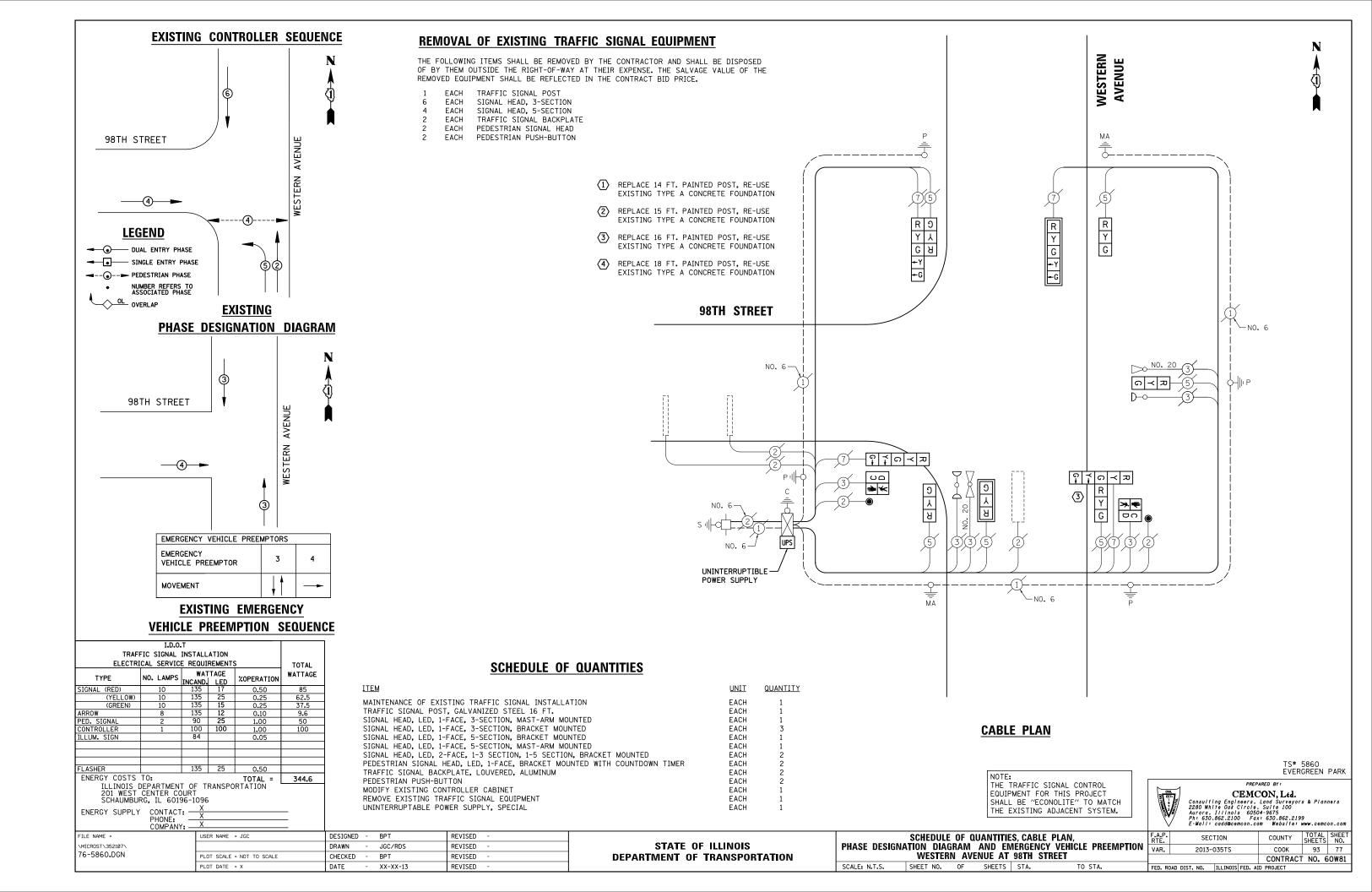


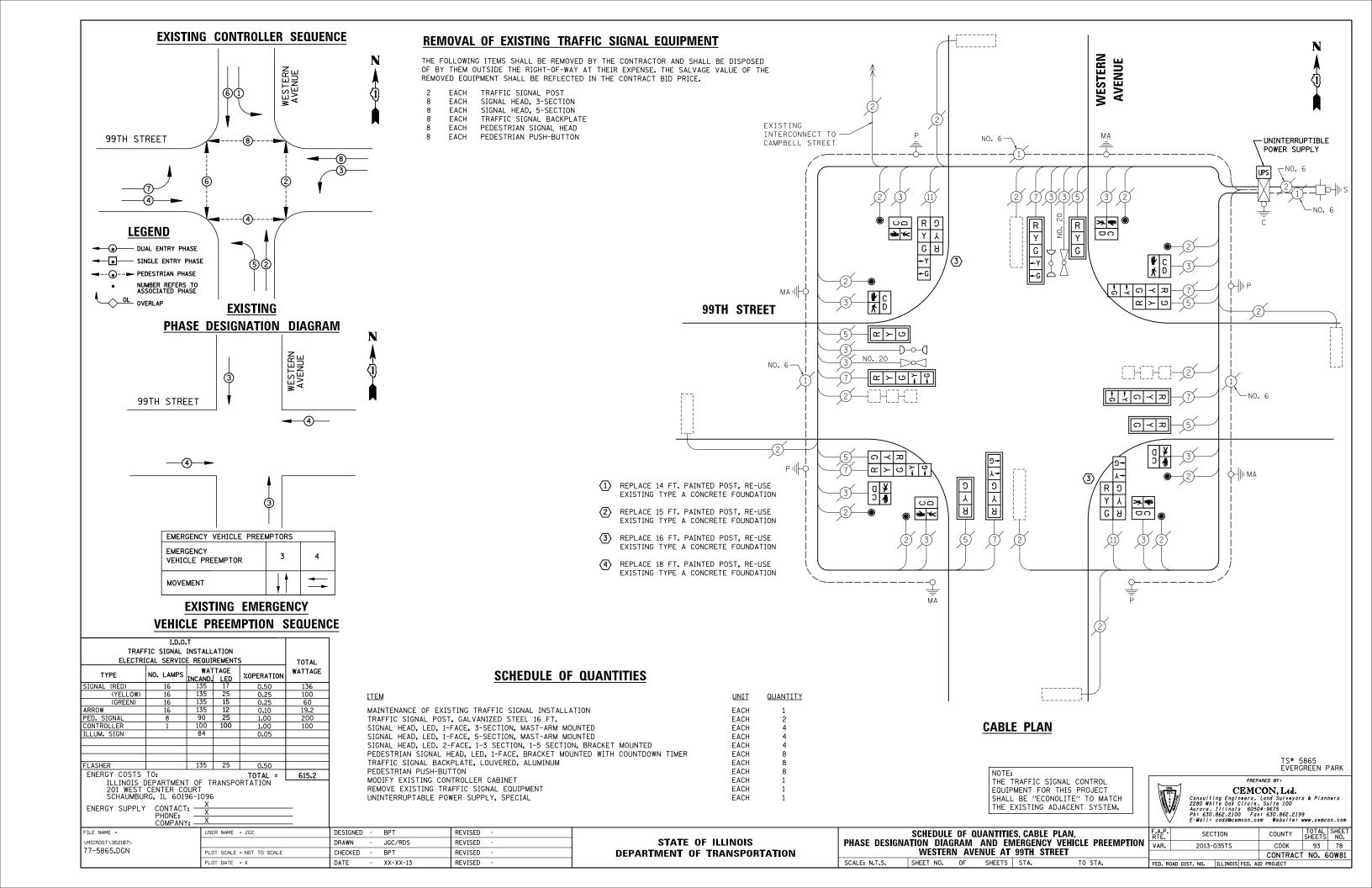


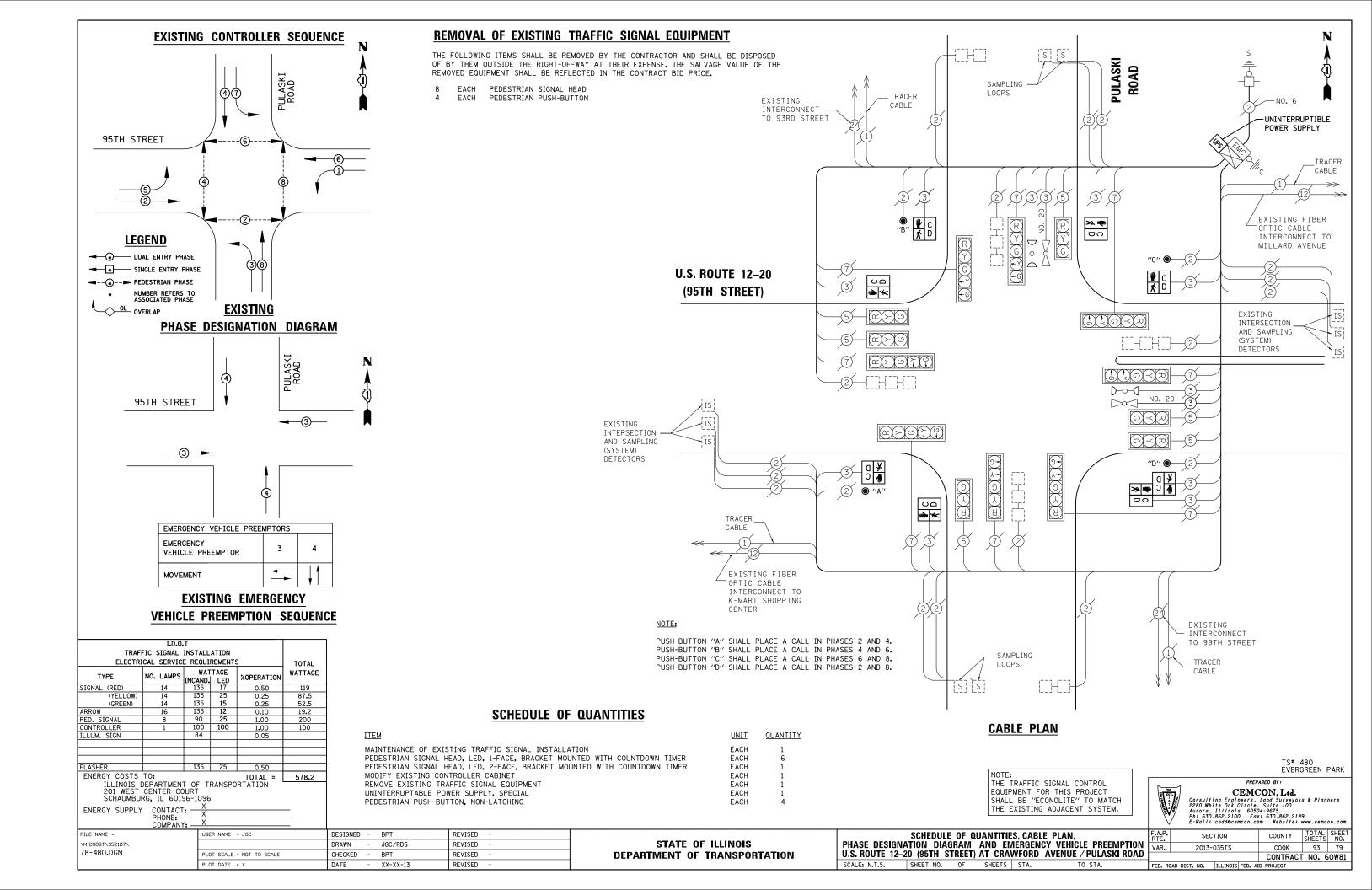


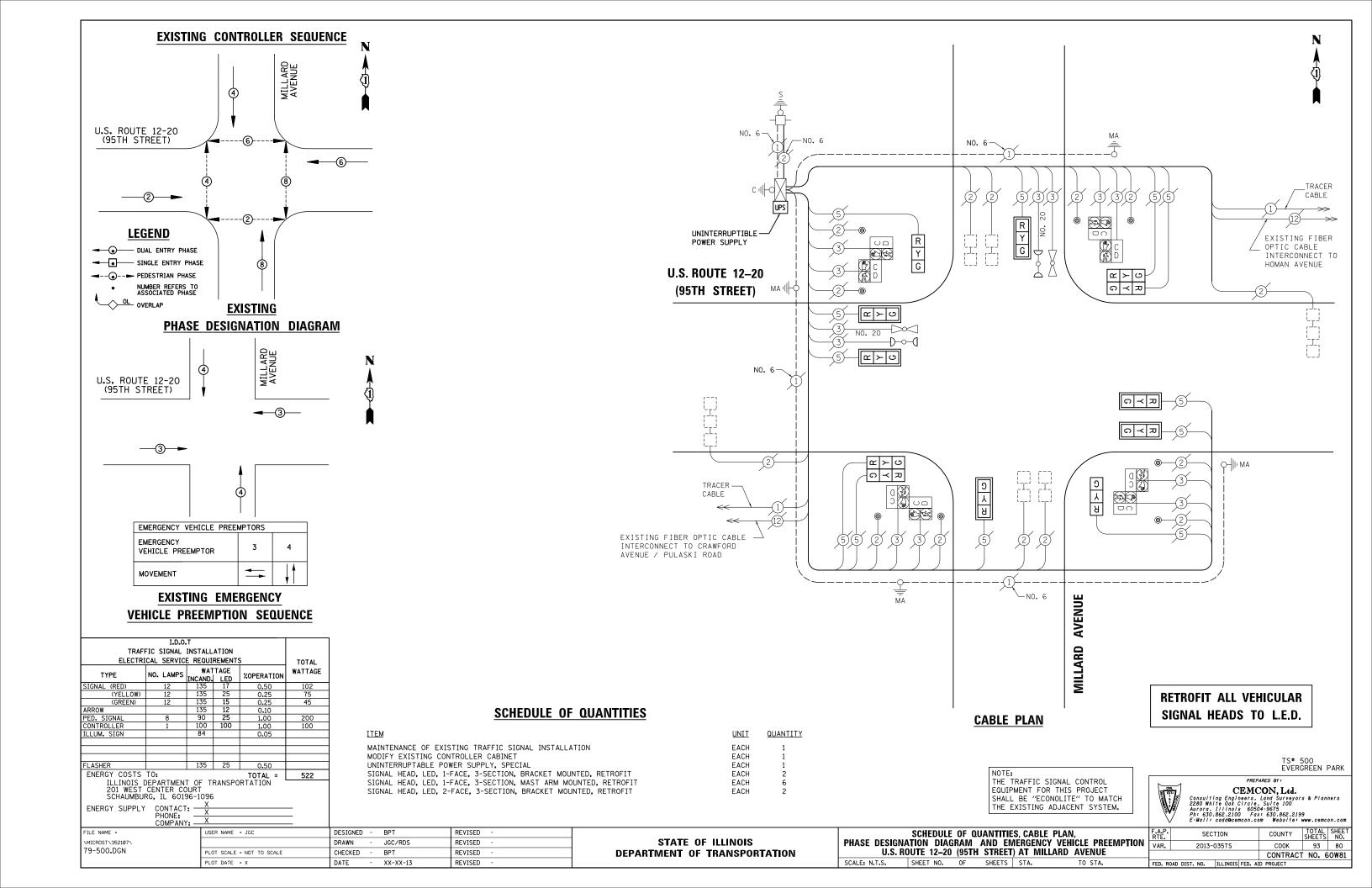


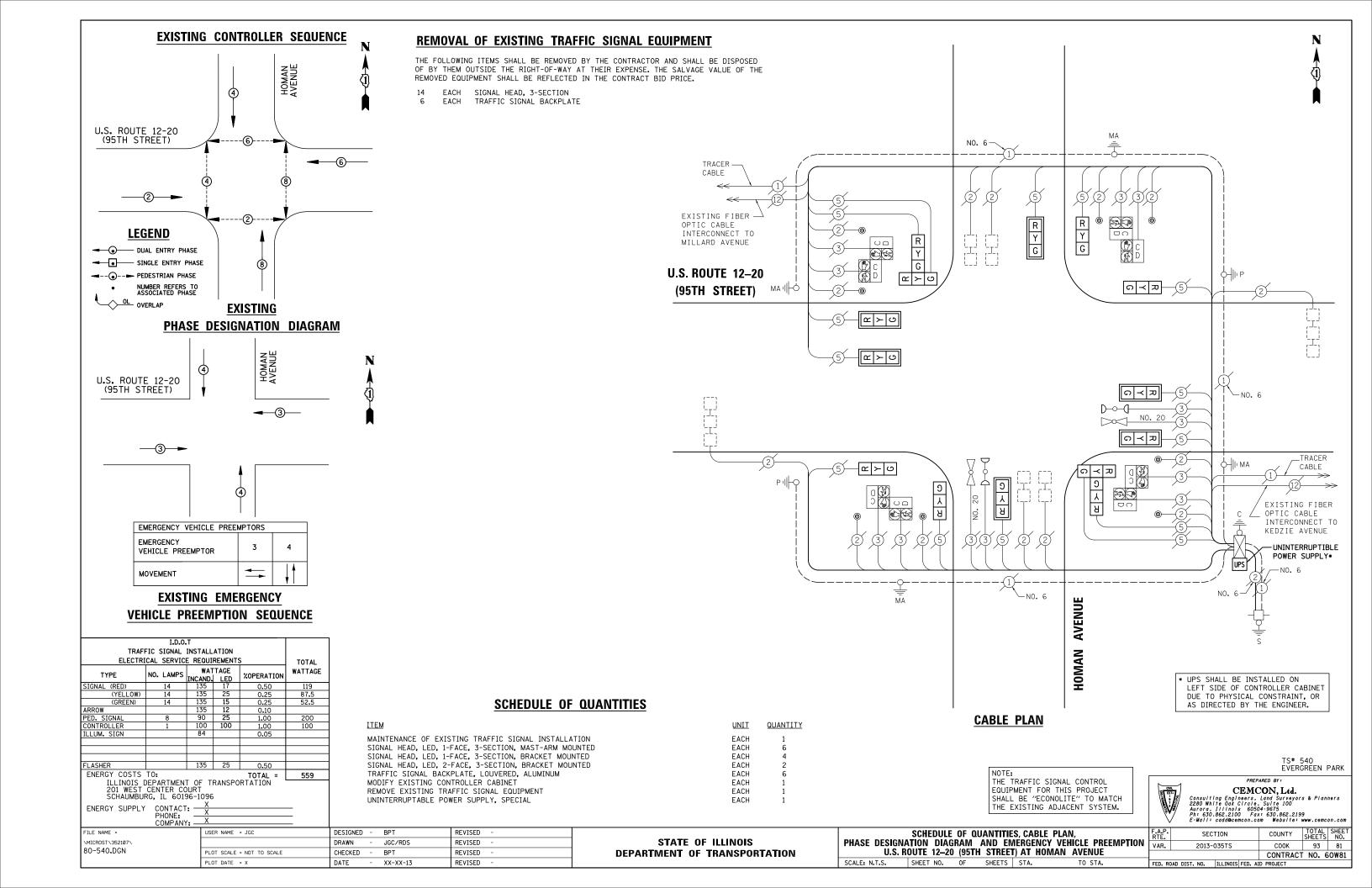


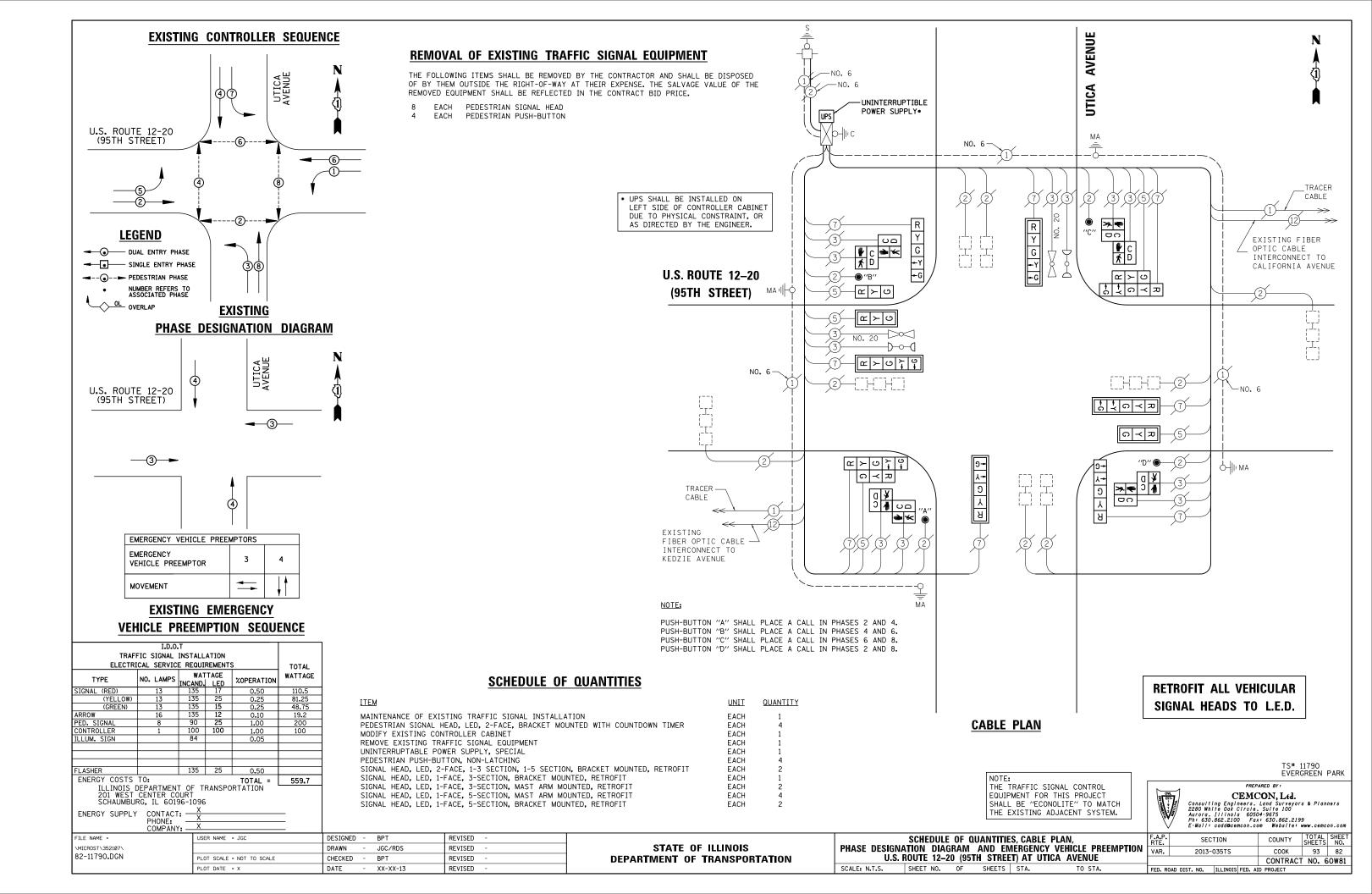


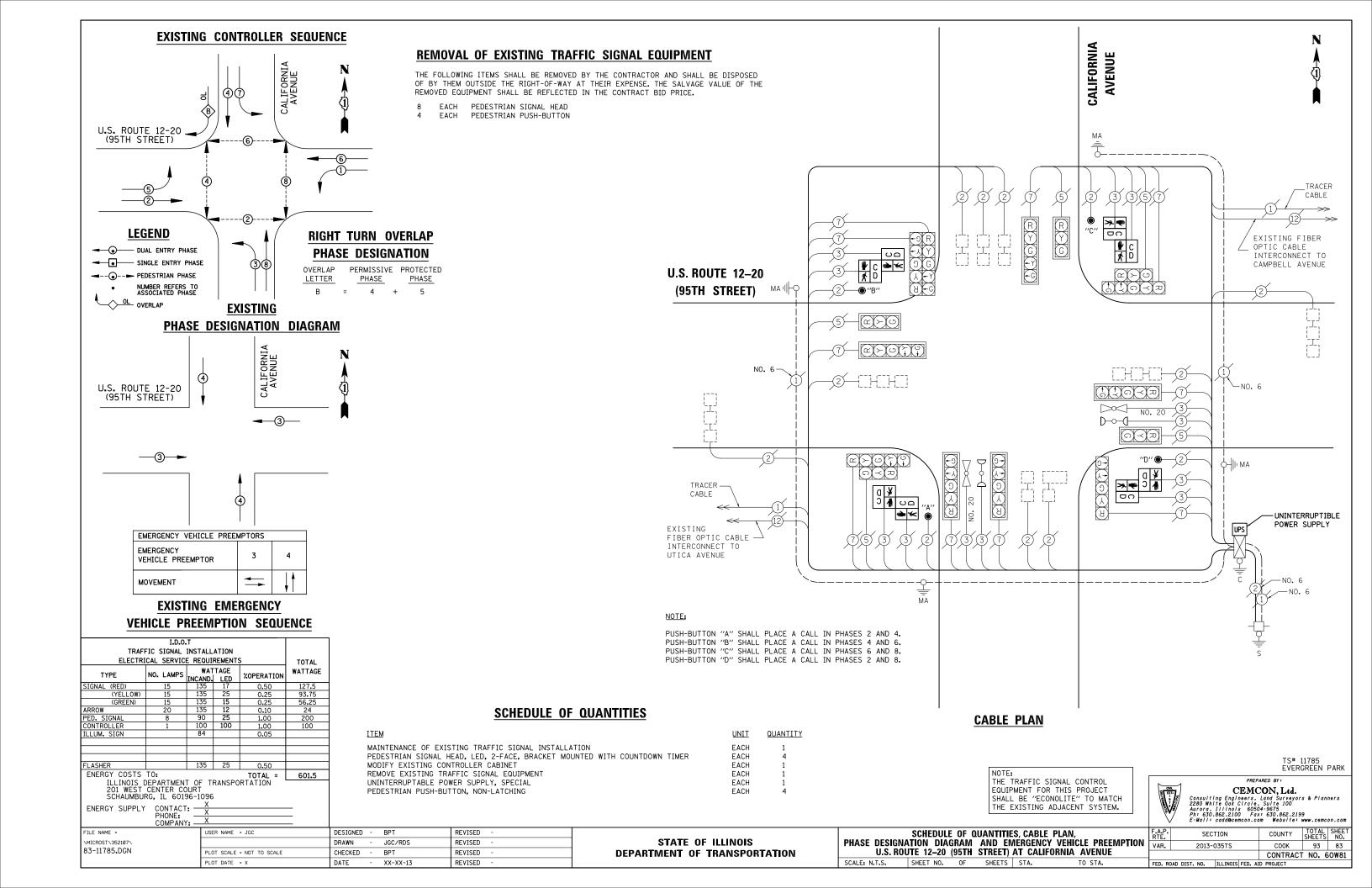


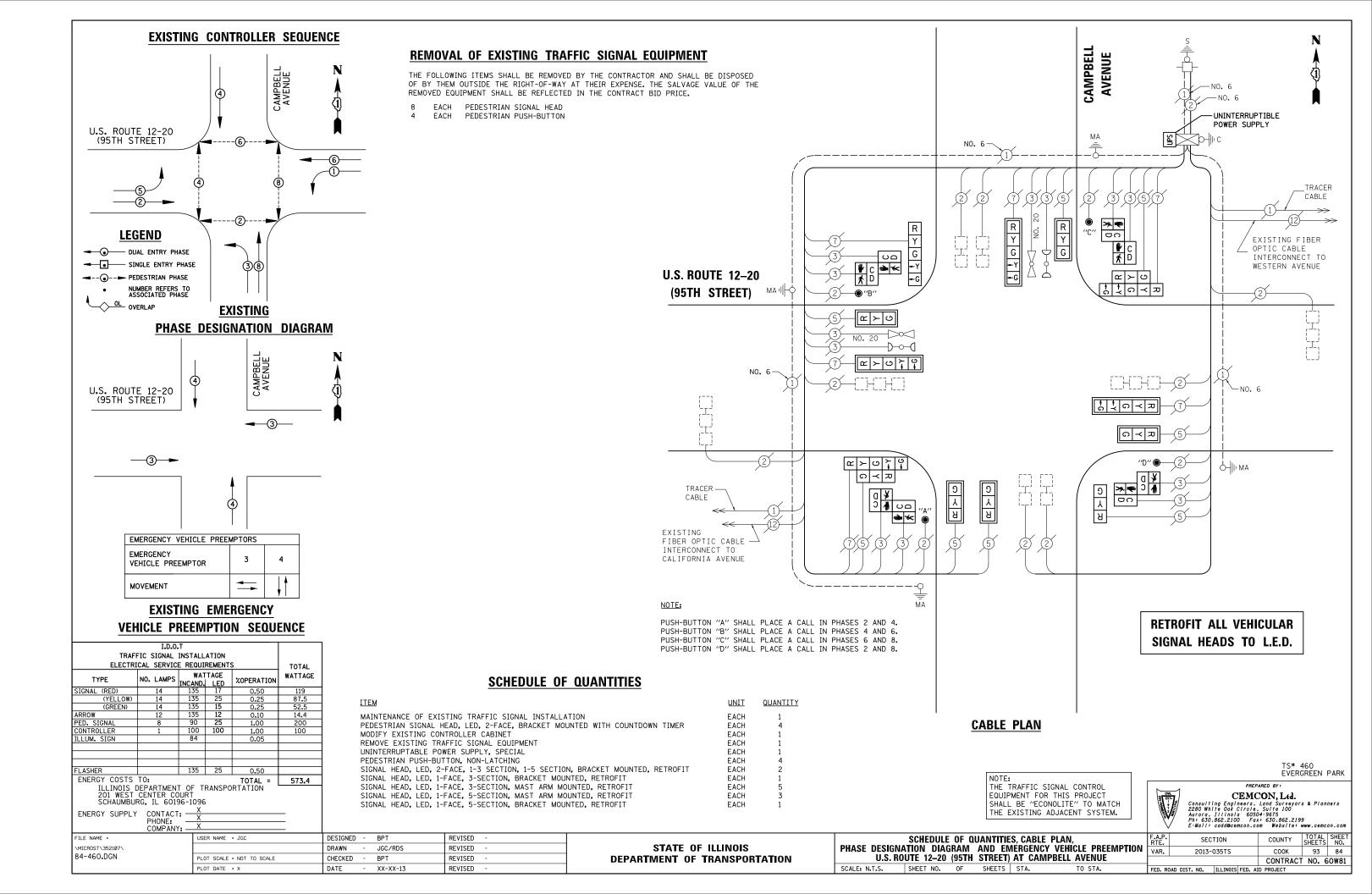


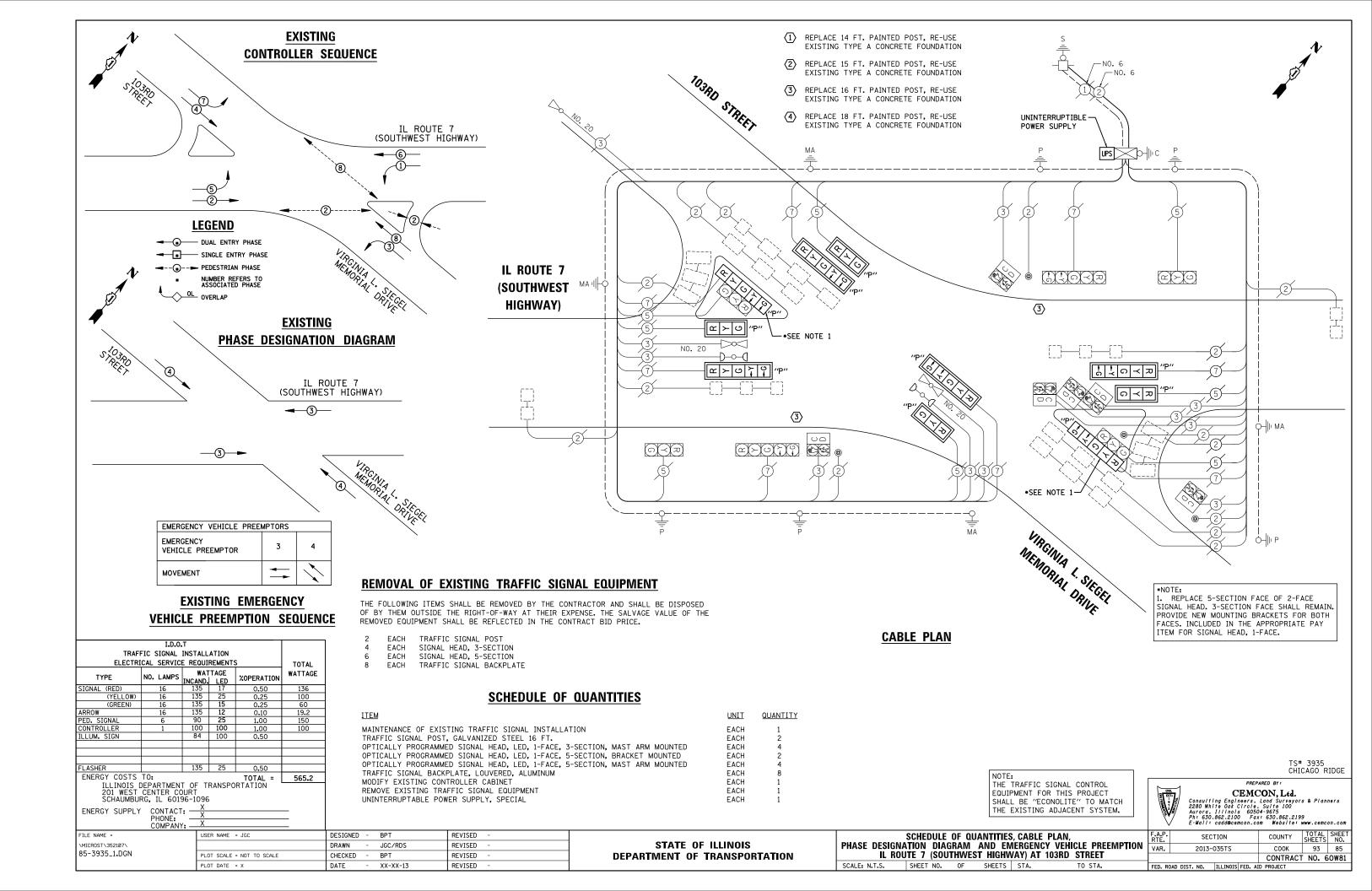












## SEQUENCE OF OPERATION

MOVEMENT		ال ا	<b>√</b>	1		+	- 6 - 1			5 -	<u>↑</u>		2	<b>→</b>	6		7	× 3			~	38			4	1		4	71	8	F
PHASE		1 -	+ 5			1 -	+ 6			2	+ 5			2 + 1	6		3 -	+ 7			3 -	+ 8			4	+ 7			4 + 8	3	L
INTERVAL	1	2	3	4	5	6	7A	78	8	9	10A	108	11	12A	128	13	14	15	16	17	18	19A	198	20	21	22A	22B	23	24A	248	A
CHANGE TO		1+6	2+5	2+6 3+7 3+8 4+7 4+8		2+6	4	+7 +8 +7 +8		2+6	3 4	+7 +8 +7 +8	/	3-	+7 +8 +7 +8	/	1+5 1+6 2+5 2+6 4+8	3+8	4+7	/	4+8	1-	+5 +6 +5 +6	/	4+8	1 2	+5 +6 +5 +6	/	3553		Н
SOUTHWEST HIGHWAY N/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SOUTHWEST HIGHWAY N/B FAR LEFT AND END MAST ARM SIGNALS	R <b>⊸</b> G	R	₹ <b>-</b> G	R Y	R	R	R	R	G ⊸ G	G Y	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SOUTHWEST HICHWAY S/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	2	R	G	G	Y	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SOUTHWEST HIGHWAY S/B FAR LEFT AND END MAST ARM SIGNALS	R → G	R ⊸G	₹ ¥Y	R	G <b>⊸</b> G	G ⊸Y	Y	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	F	R	R	R	R	R
103RD STREET W/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	P	R	R	G	Υ	R	R
103RD STREET W/B FAR LEFT AND END MAST ARM SIGNALS	R	R	2	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G ⊸ G	G	Y	R	R	F.	R	R	G	Y	R	R
VIRGINIA AVENUE E/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	2	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	Υ	R	R
VIRGINIA AVENUE E/B FAR LEFT AND END MAST ARM SIGNALS	R	R	3	R	R	R.	R	R	R	R	R	R	R	Ŗ	R	R ⊸ G	R	R ■Y	R <b>⊸</b> G	R	R	R	R	G G	G	Y	R	G	Υ	R	R
FLASHING BEACON	OART	OART	DART	OART	OART	DART	OARY	DART	OART	OART	DART	OART	DARY	OART	DART					DARK	OARY	OART	ORRY			OART	DART	OARY	DARK	OARY	OART

| F.A. | SECTION | COUNTY | TOTAL | SHEET | NO. | 3578 | 02-0042-00-FP | CCOK | 31 | 23 | STA. | TO STA FED. ROAD DIST. NO. | BLLINOIS | FED. AID PROJECT

PHASE 2 AND 6 SHALL BE PLACED ON RECALL.

EMERGENCY VEHICLE PREEMPTION S	LUUL	NUC	Ur t	FER	AIIUI	-																													PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	,	1	5		5	5	8		8		8	11		1 1		11	13	13	1	7	17	,	7	2	0	20	2	0	2	23	23	2	23				CLEAR
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	18	10	10	1E	1F	16	1Н	1J	1 K	1L	1M	1N	1P	10	1R	15	1 T	10	1V	1 W	1X	1Y	1Z	1 44	188	100	100	1EE	1FF	166	1111	1JJ	2	3	4	NORMA
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	OR 3	4	2	1E	3	4	2	11	3	1L	4	2	1P	3	1R	4	OR 3	4	1٧	2	3	14	4	144	2	3	100	4	1FF	2	3	1JJ	4				0
SOUTHWEST HIGHWAY N/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	G	Y	R	Y	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	- G	R	R	0
SOUTHWEST HIGHWAY N/B FAR LEFT AND END MAST ARM SIGNALS	R ⊸ Y	R	R	R	R	R	G	Y	R	Y	R	G	Y	R	Y	R	R	R	R	R	F	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	0
SOUTHWEST HIGHWAY 5/8 NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	s R	R	6	Y	R	G	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	G	<b>♦</b>
SOUTHWEST HIGHWAY 5/B FAR LEFT AND END MAST ARM SIGNALS	R ⊸Y	R G	G Y	Y	R	G	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	G G	0
103RD STREET W/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	F	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	Y	R	R	R	R	R	R	Y	R	G	Y	R	R	G	R	<b>♦</b>
103RD STREET W/B FAR LEFT AND END MAST ARM SIGNALS	R	R	F	R	R	Ŗ	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G.	Y	R	R	R	R	R	R	Y	R	G	Υ	R	R	G	R ·	0
VIRGINIA AVENUE E/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	F	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	Υ	R	Y	R	G	Υ	R	R	G	R	0
VIRGINIA AVENUE E/B FAR LEFT AND END MAST ARM SIGNALS	R	R	F	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Υ	R	G	Y	R	Y	R	G	Y	R	R	G	R	<b>◊</b>
FLASHING BEACON	DARK	ELASY	OAG	OART	OARY	KLAS	OART	OARH	OARY	ELASH	CLASH	OARIT	OART	OART	LASH	JES	CARK	LASH	OART	DART	CART	LASH	LASH	OART	OART	DART	ASH	LASH	CART	OARY	ORRI	ASH	ASY	CARY	CARK	LASH	0

PREEMPTOR NUMBER 5 IS FOR FIRESTATION PUSHBUTTON.

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 Weat Higgins Road, Suite 600
Rosemont, Minois 80018
(847) 823-050.

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF CHICAGO RIDGE
ILL ROUTE 7 (SOUTHWEST HIGHWATAVIRCINIA AVEL/103-G STREET
INTERSECTION IMPROVEMENTS
SEQUENCE OF OPERATION AND
EMERGENCY VEHICLE PREEMPTION

SEQUENCE

SCALE: NOT TO SCALE DATE: 4/08/2003

n:\CHI\_RDC\90-61T144\Traffic\_Design\SEC\_Sw-103.dgn

## **EXISTING SEQUENCES - INCLUDED FOR REFERENCE ONLY**

PREPARED BY: CEMCON, Ltd.

Consulting Engineers. Land Surveyors & Planners
2280 White Ook Circle. Suite 100
Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@acmoon.com Webbite: www.cemcon.com

TS# 3935 WORTH

FILE NAME =
\MICROST\352107\
85-3935 2.DGN

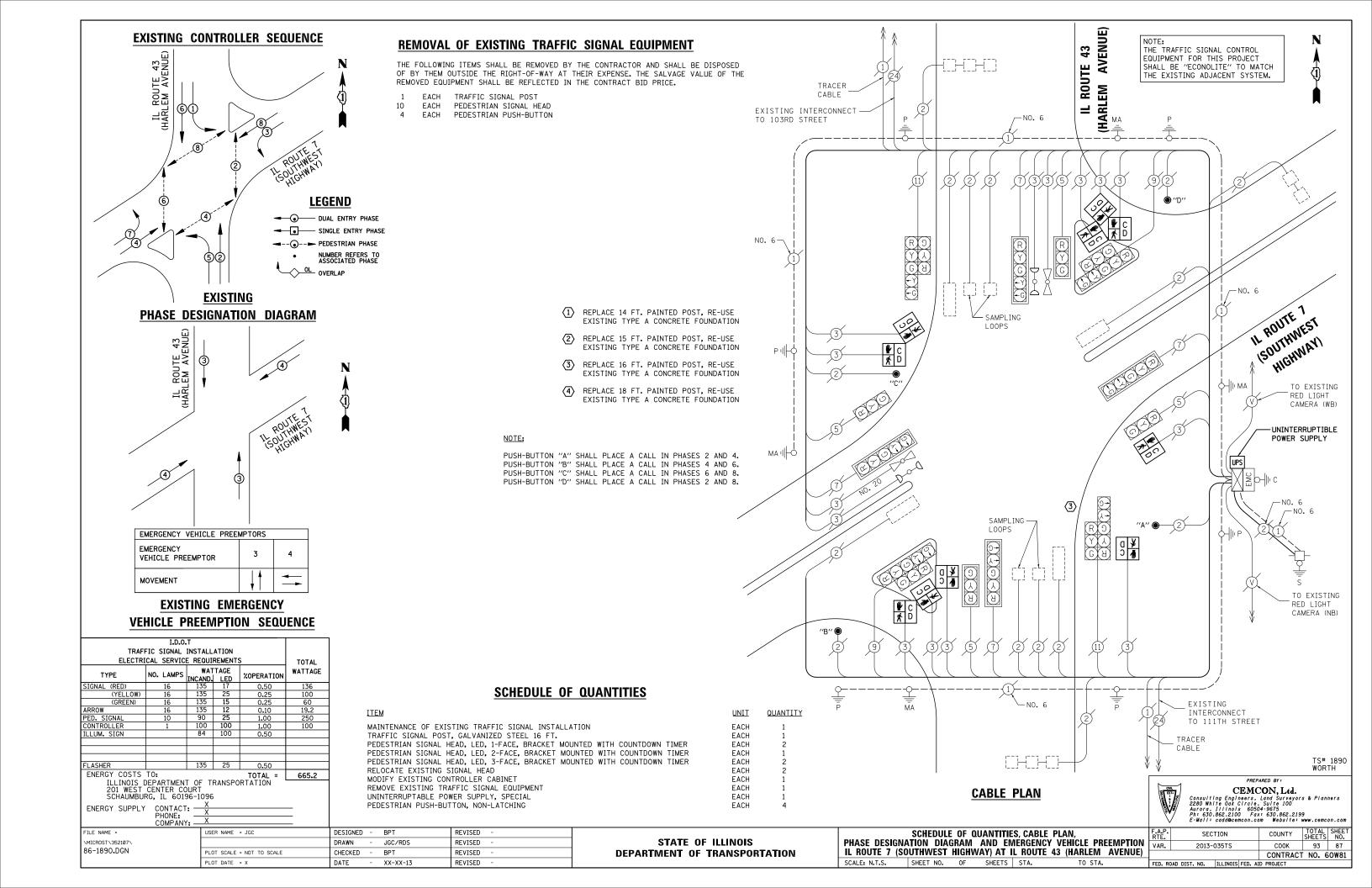
USER NAME = JGC	DESIGNED	-	BPT	REVISED	-
	DRAWN	-	JGC/RDS	REVISED	-
PLOT SCALE = NOT TO SCALE	CHECKED	-	BPT	REVISED	-
PLOT DATE = X	DATE	-	XX-XX-13	REVISED	-

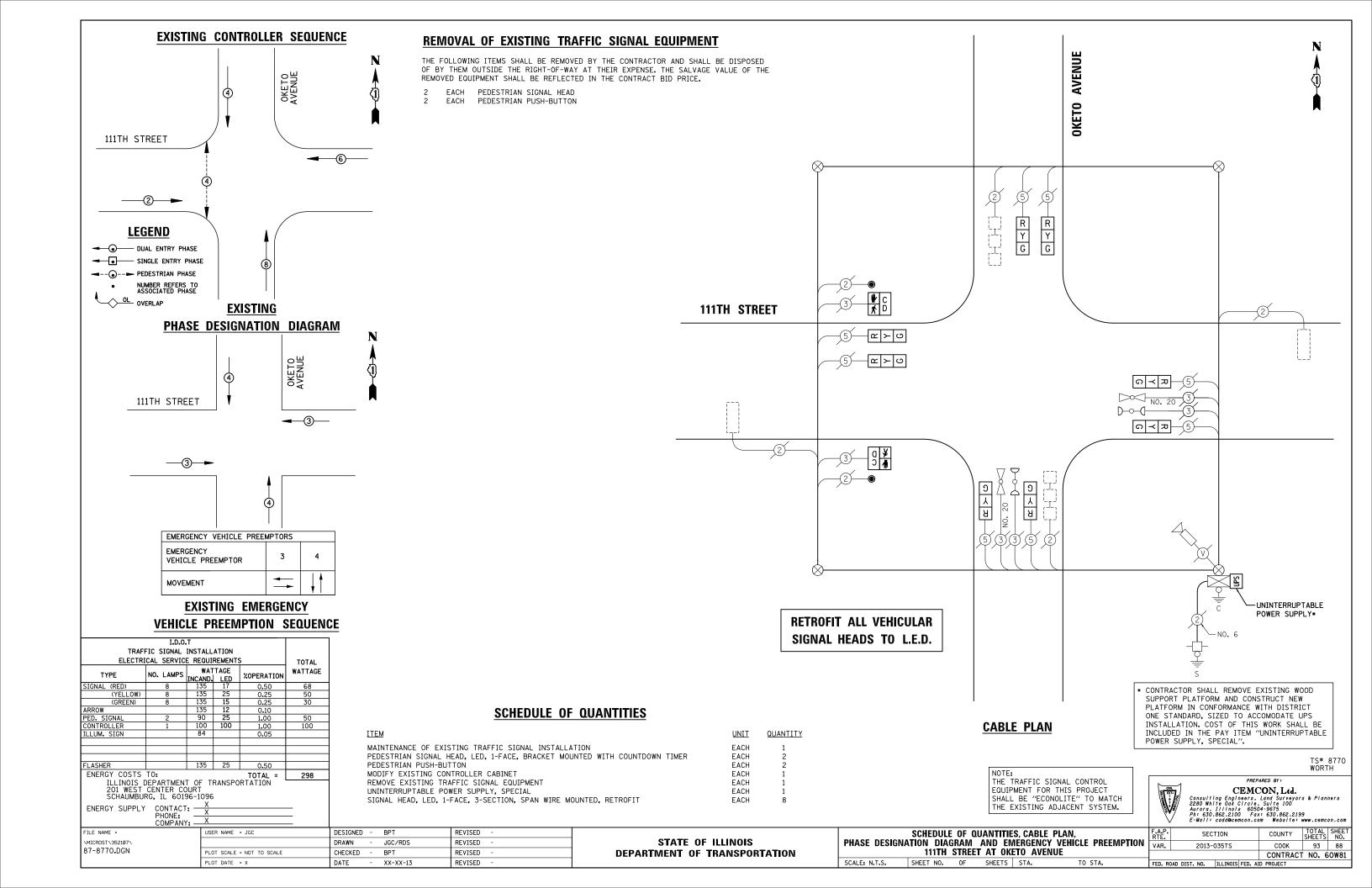
**DEPARTMENT OF TRANSPORTATION** 

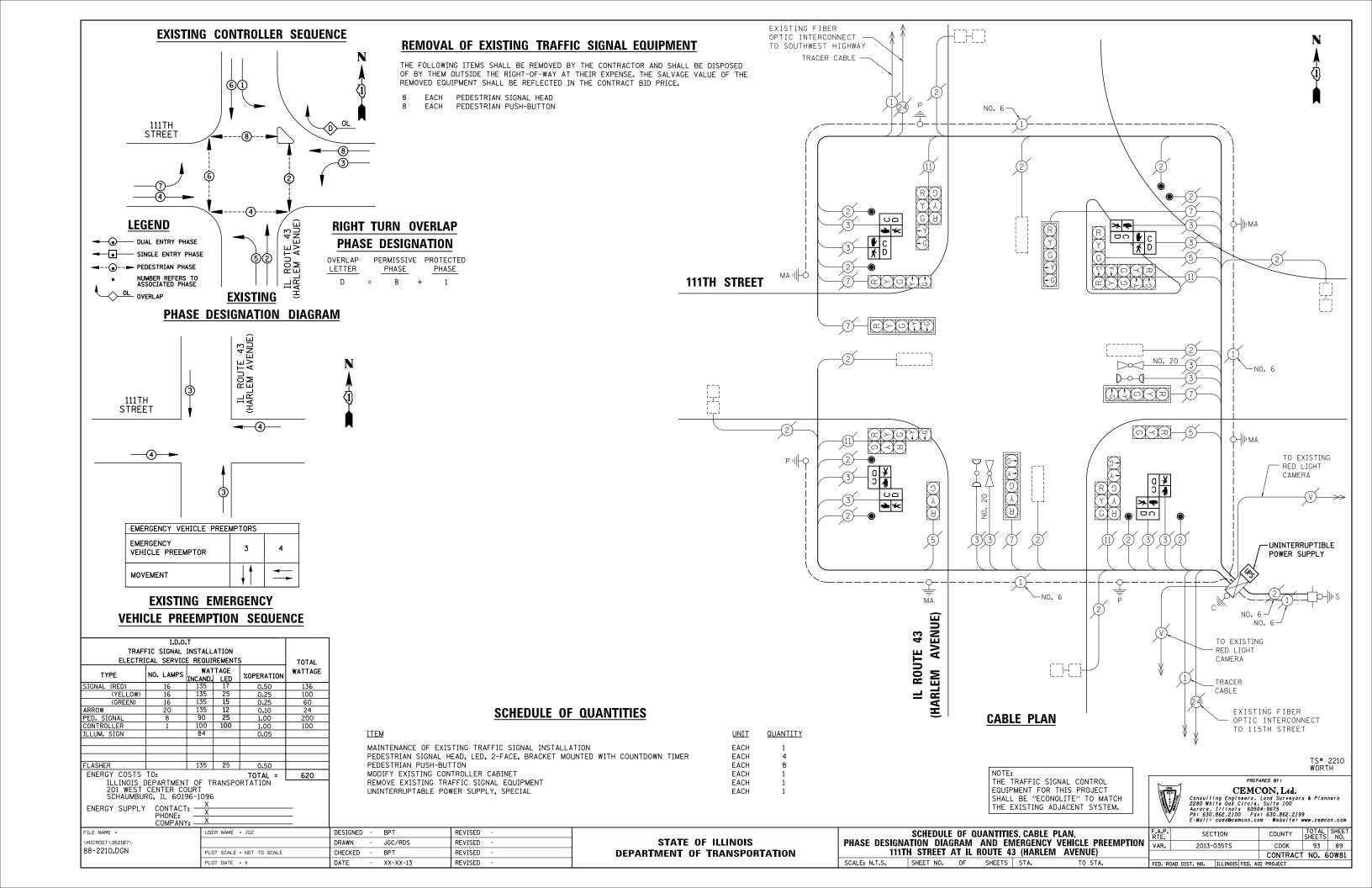
SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 7 (SOUTHWEST HIGHWAY) AT 103RD STREET

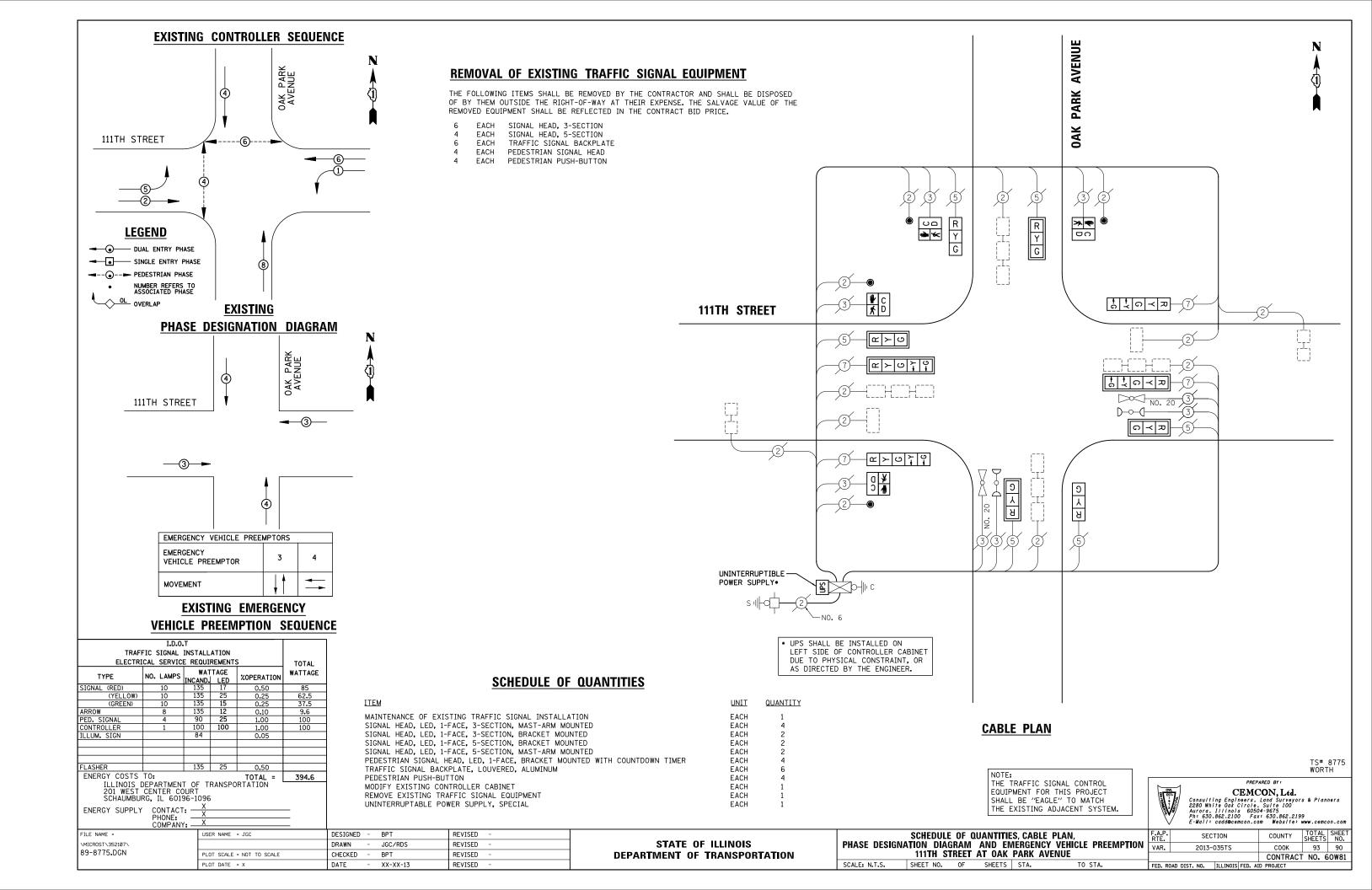
^	, L-mui	i coooscen	10011.00	JIII WEDSTIE'	www.cemc	011.00111
F.A.P. RTE.	S	ECTION		COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	201	3-035TS		соок	93	86
				CONTRAC	T NO. 6	SOW81
FED. RO	DAD DIST, NO.	ILLINOIS	FED. Al	ID PROJECT		

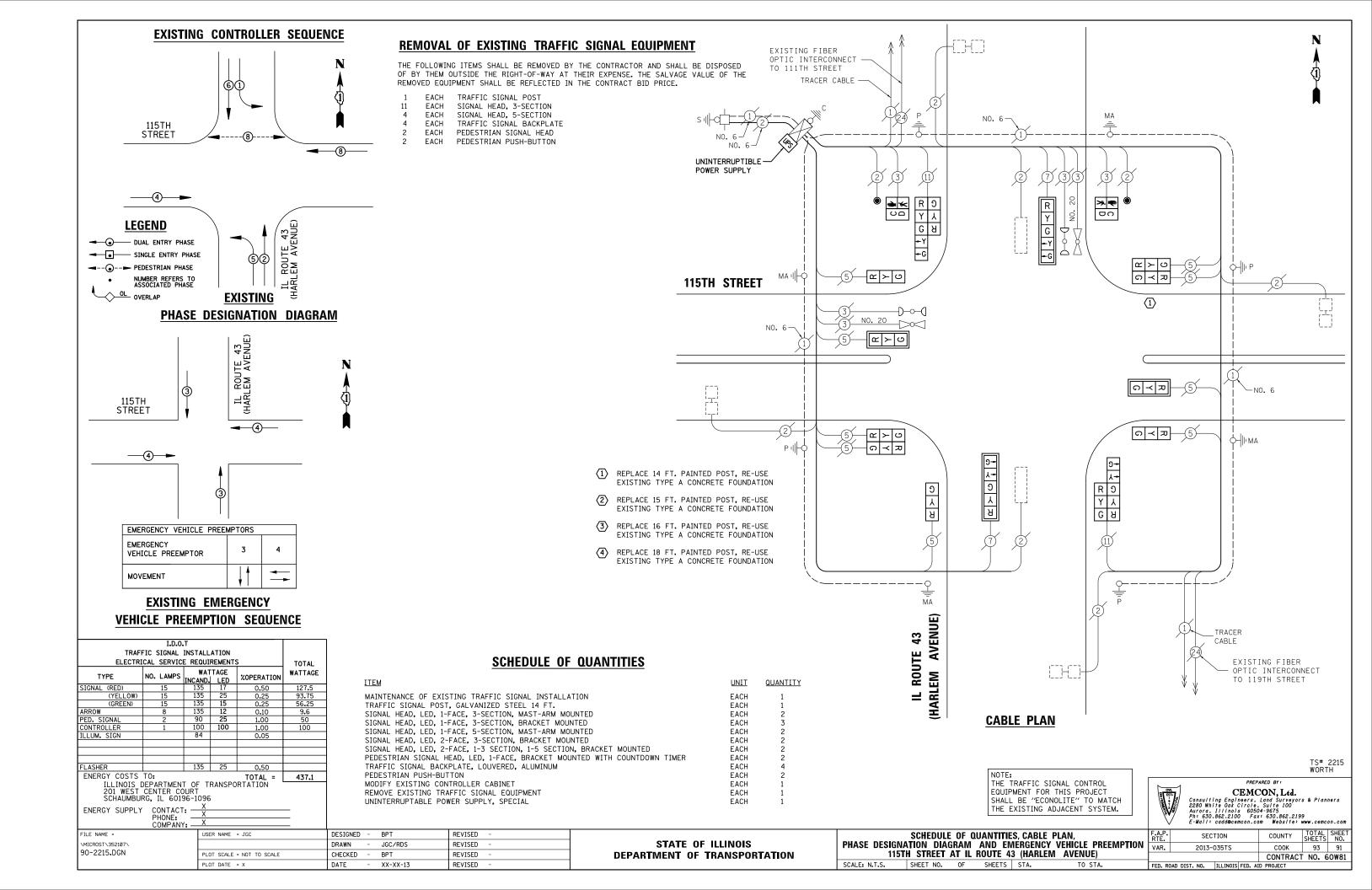
STATE OF ILLINOIS SCALE: N.T.S. SHEET NO. OF SHEETS STA.

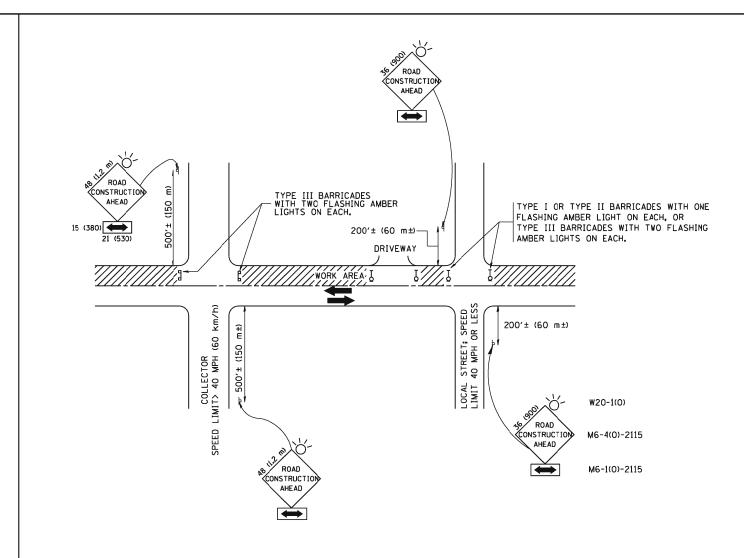












TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

## NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED 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  $48 \times 48$  (1,2 m  $\times$  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:\d:ststd\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

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

TRAFFIC CONTRO	OL AND P	ROTECTI	ON FOR	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS					2013-035TS	COOK	93	92
SIDE NUADS, INTER	ISLUTIONS.	, AND D	MIVEVVATS		TC-10	CONTRACT	NO.	60W81
SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

