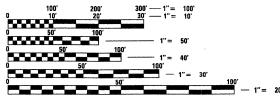
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#### INDEX OF SHEETS GENERAL NOTES 2. 3. SUMMARY OF QUANTITIES DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS 4,-7. PLAN - LED TRAFFIC SIGNAL RETROFIT FLASHER LOCATIONS 8. TRAFFIC SIGNAL MODERNIZATION PLAN U.S. RTE. 45 AT WILLOW LN. / 195th ST. CABLE PLAN, SCHEDULE OF QUANTITIES AND PHASE DESIGNATION DIAGRAM U.S. RTE. 45 AT 195th ST. (WILLOW LANE) 10. TRAFFIC SIGNAL MODERNIZATION PLAN U.S. RTE. 45 AT LA PORTE RD. 11. CABLE PLAN, SCHEDULE OF QUANTITIES AND PHASE DESIGNATION DIAGRAM U.S. RTE. 45 AT LA PORTE RD. 12. TRAFFIC SIGNAL MODERNIZATION PLAN U.S. RTE. 45 AT LINCOLN-WAY HIGH SCHOOL 13. CABLE PLAN, SCHEDULE OF QUANTITIES AND PHASE DESIGNATION DIAGRAM U.S. RTE. 45 AT LINCOLNWAY LANE 14. TRAFFIC SIGNAL MODERNIZATION PLAN U.S. RTE. 45 AT COLORADO AVE. 15. TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM U.S. RTE. 45 AT COLORADO AVE. 17. TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN IL. ROUTE 1 (DIXIE HIGHWAY) AT EXCHANGE STREET TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM 18. IL. ROUTE 1 (DIXIE HIGHWAY) AT EXCHANGE STREET TRAFFIC SIGNAL MODIFICATION PLAN IL. ROUTE 1 (DIXIE HIGHWAY) AT EXCHANGE STREET 19. SCHEDULE OF QUANITIES, CABLE PLAN IL. ROUTE 1 (DIXIE HIGHWAY) AT EXCHANGE STREET 20. MAST ARM MOUNTED STREET NAME SIGN 21.

#### **IDOT STANDARDS:**

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CUBR RAMPS FOR SIDEWALKS
OFF-BD OPERATIONS, 2L 2W MORE THAN 15' (4.5m) AWAY
OFF-BD OPERATIONS, 2L 2W MORE THAN 15' (4.5m) AWAY
OFF-BD OPERATIONS, WILTILANE, 15' (4.5 m) TO 24'' (600 mm) FROM PAVEMENT EDGE
OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24'' (600 mm) FROM PAVEMENT EDGE
OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH
URBAN LANE CLOSURE, MULTILANE INTERSECTION
LANE CLOSURE MULTILANE THO TO 2W CROSSWALK OR SIDEWALK CLOSURE
TRAFFIC CONTROL DEVICES
SIGN PARLE MOUNTING DETAILS
HANDHOLES
STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
DETECTOR LOOP INSTALLATION
UNINTERRUPTABLE POWER SUPPLY (UPS)
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
CONCRETE FOUNDATION DETAILS
SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
TRAFFIC SIGNAL MOUNTING DETAILS
```



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.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

CONTRACT NO. 60G42

### STATE OF ILLINOIS

## **DEPARTMENT OF TRANSPORTATION**

## **DIVISION OF HIGHWAYS**

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

## DISTRICT 1

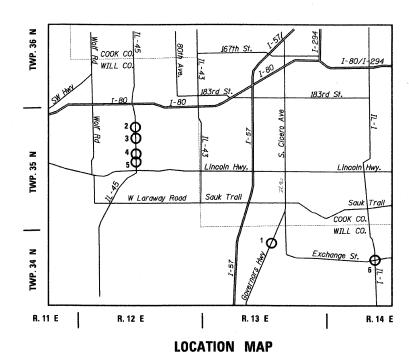
## HIGHWAY SAFETY IMPROVEMENT PROJECT

FAP8#Governors Highway @ Stuenkel Road (IL 50) FAP 330 US 45 @ 195th Street FAP 330US 45 @ LaPorte Road FAP330US 45 @ Lincoln Way Lane

FAP330 US 45 @ Colorado Street FAP876IL 1 @ Exchange Street

PROJECT: HSIP-0005(682)

**WILL COUNTY SECTION 2009–037 TS** C - 91 - 404 - 09



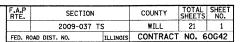


LEGEND:

1. Governors Highway @ Stuenkel Road 2. US 45 @ 195th Street 3. US 45 @ LaPorte Road 4. US 45 @ Lincoln Way Lane 5. US 45 @ Colorado Street



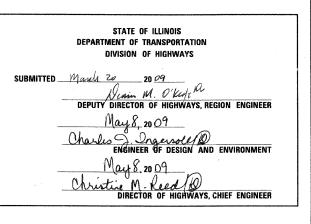
Expires: 11-30-2009



D-91-404-09







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#### GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 (HEREINAFTER REFERED TO AS THE "STANDARD SPECIFICATIONS"; THE LATEST "SUPPLEMENTAL SPECIFICATIONS" AND "RECURRING SPECIAL PROVISIONS"; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2. ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- 3. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123) AT LEAST 10 DAYS PRIOR TO CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. ALL UTILITIES MUST BE NOTIFIED AND STAKED PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES.
- 5. THE CONTRACTOR IS REQUIRED TO ATTEND AN ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) PRECONSTRUCTION MEETING AND SHALL INFORM THE IDOT TRAFFIC ENGINEER BEFORE WORK COMMENCES.
- 6. THE CONTRACTOR SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING SAFE AND HEALTHFUL CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 8. 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.
- 9. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND 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 THE STANDARD SPECIFICATIONS 252 AND 250, RESPECTIVELY.
- 10. CONTROLLER CABINETS SHALL BE PLACED SO THAT d) THE DOORS OPEN AWAY FROM THE CURB OR TRAVEL WAY., b) AND THE TRAFFIC MOVEMENTS AT THE INTERSECTION ARE VISIBLE FROM THE CONTROLLER.
- 11. ANY CONTROLLER CABINET WHETHER NEW OR EXISTING TO RECIEVE UPS, WILL HAVE A "L" SHAPED 4 FEET CONCRETE MAINTENANCE PAD INSTALLED. SEE PLANS FOR DETAIL. THE COST OF INSTALLATION, OF CONCRETE PAD IS INCIDENTAL TO NEW CONTROLLER AND OR UPS INSTALLATIONS.

PREPARED BY:

CEMCON, Ltd.

Consulting Engineers, Lond Surveyors & Planners
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Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: addddeemcon.com Webbite: www.cemcon.co.

FILE NAME =	USER NAME = RDS	DESIGNED	-	KK	REVISED -	
MICROST\352072\ 02-GENNOTES		DRAWN	-	RDS	REVISED -	***
	PLOT SCALE = 1"=20"	CHECKED	-	BPT	REVISED -	
	PLOT DATE = 03-18-09	DATE	-	03-18-09	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.

 						•						
GENERAL NOTES					F.A.P. RTE.		SEC	TION		COUNTY	TOTAL	SHEET NO.
GENERAL IVOIDO							2009-0	37 TS		WILL	21	2
 ,						-				CONTRACT	NO. 6	50G42
SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. R	OAD DIS	T. NO.	ILLINOIS	FED. AI	D PROJECT		

				<u></u>	2.51. MOKENA 2.51. PRANKFORT	2.51. MOKENA 2.51. FRANKFORT	OF FRANKAL	90'1. FED.	1
			URBAN	90%.FED.		CTION TYPE COD		57. STATE 5%. VILLAGE OF FRANKFORT	90% FED. 5% STATE
PAY			TOTAL	GOVERNORS	US 45 @	US 45 @	US 45 @	US 45 @	5/. Will Co. IL 1@
CODE	SUMMARY OF TRAFFIC SIGNAL QUANTITIES	UNIT		HWY @			LINCOLNWAY		
NUMBER	ITT NA	OINIT	OHANTTO	STUENKEL RD	105TH 0.T	LABORTE DE	LN	COLORADO AVE	EVOUANCE ST
NOWBER	ITEM		QUANTITY	STUENKEL RD	195TH ST	LAPORTE RD	LIN	COLORADO AVE	EXCHANGE ST
67000400	ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	5		1	1	1	<del>                                     </del>	1
42400800	DECTECTABLE WARNINGS	SQFT	76			1	· · · · · · · · · · · · · · · · · · ·		76
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	962						962
44000600	SIDEWALK REMOVAL	SQFT	962			-			962
67100100	MOBILIZATION TO STANDARD TO THE PROPERTY OF TH	LSUM	1 .	0.17	0.17	0.17	0.17	0.17	0.15
70102620 70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	11	0.17	0.17	0.17	0.17	0.17	0.15
70102633	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1 1	0.17	0.17 0.167	0.17	0.17	0.17 0.167	0.15 0.16 <b>2</b>
72000100	SIGN PANEL. TYPE 1	SQ FT	18	0.107	0.167	0.17	0.107	0.107	18
72000200	SIGN PANEL, TYPE 2	SQ FT	23						23
78000400	THERMOPLASTIC PAVEMENT MARKING, LINE 6"	FOOT	632		248	384	· ·	<u> </u>	
78000600	THERMOPLASTIC PAVEMENT MARKING, LINE 12"	FOOT	1, <b>5</b> 38				492	500	546
78000650	THERMOPLASTIC PAVEMENT MARKING, LINE 24"	FOOT	703		130	166	145	130	132
78300400	THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	860	-	110	124	126	96	404
81000600 81000700	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	60 79			-		25	35 79
81018500	CONDUIT PUSHED, 2 " DIA., GALVANIZED STEEL	FOOT	74						74
81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	4				4		
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	330						330
81400100	HANDHOLE	EACH	3						3
81400200	HEAVY-DUTY HANDHOLE	EACH	4						4
81400300 81900200	DOUBLE HANDHOLE TRENCH AND BACKFILL FOR ELECTRICAL WORK	EACH FOOT	1 139					7-	1 114
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5	<del>                                     </del>	1	1	1	25	114
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1		-		<del>                                     </del>	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2027		62		640	650	675
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4,400		206		1301	1300	1599
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,505						1505
87301255 87301305	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,499						1499
87301805	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	1,754 262			80		54	1754 128
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3	<del> </del>		00	1	2	120
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5					4	1
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1						1
X8771438	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 14 FT. AND 38 FT.	EACH	1			` `			1
X8771630	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 16 FT. AND 30 FT.	EACH	1					<u> </u>	1
X8772036 87800100	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 36 FT. CONCRETE FOUNDATION, TYPE A	FOOT FOOT	1 16				4	8	1 4
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4				4	0	4
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60	<b> </b>					60
87900200	DRILL EXISTING HANDHOLE	EACH	3				1	2	
X8803064	SIGNAL HEAD, LED, 1-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	4	4	:				
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	24		4	4	4	4	8
88030100 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	17	<u> </u>	4	4	4	4	1
88102717	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED  PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH EACH	23		2	2	4	4	7
88102747	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER  PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14		1	1	4	4	4
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	47		8	8	8	8	15
88500100	INDUCTIVE LOOP DETECTOR	EACH	10						10
88600100	DETECTOR LOOP, TYPE I	FOOT	734						734
88800100	PEDESTRIAN PUSH-BUTTON	EACH	18		3	3	4	4	4
89000100 89502200	TEMPORARY TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER	EACH	1					1	1
89502200	REMOVE ELECTRIC CABLE FROM CONDUIT	EACH FOOT	3 6.165	<del>                                     </del>	1	80	1	11	6085
89502375	REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	-	1	80	1	1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	8					<u> </u>	8
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9						9
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	102.88		20.56	20.6	20.56	20.6	20.56
X8050010	SERVICE INSTALLATION-GROUND MOUNTED	EACH	1						1.0
X8050015 X8730027	SERVICE INSTALLATION, POLE MOUNTED	EACH	3	-	1 220	1 010	ļ	1 54	ļ
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 61C	FOOT	1,376 249	+	338	610	14	54	360 249
	IFLECTRIC CARLE IN CONDUIT, NO. 20.3/C. TW/ISTED SHIFLDED								449
X8730250 X8620020	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED  UNINTERRUPTIBLE POWER SUPPLY	FOOT	5		1	1	1	1	1

\*Specialty Items

	PREPARED BY:
CML EST-	CEMCON, Led.
	Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100
	Aurora, Illinois 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199
V	E-Mail: cadd@cemcon.com Website: www.cemcon.com

F.A.P. RTE.			SE	CTION	COUNTY	TOTAL	SHEET NO.		
2009-037 TS							WILL	21	3
						T	CONTRACT	NO.	60G42
 FED. RO	DAD	DIST.	NO.	ILLINOIS	FED.	AIC	PROJECT		

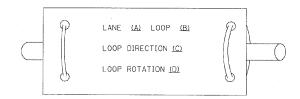
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	PLOT SCALE = 1"=20"	CHECKED		BPT	REVISED -
	PLOT DATE = 03-18-09	DATE	-	03-18-09	REVISED -

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

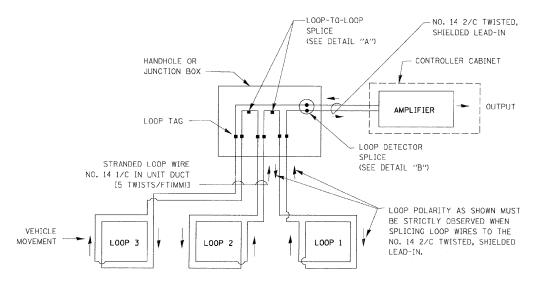
#### LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

#### LOOP LEAD-IN CABLE TAG

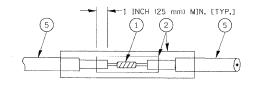


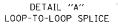
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

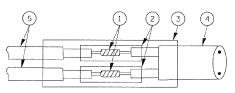


#### DETECTOR LOOP WIRING SCHEMATIC

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







DETAIL "B" LOOP-TO-CONTROLLER SPLICE

#### LOOP DETECTOR SPLICE

- 1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE,
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

		RE AT 2T ON 2
		NAME
		CADD
		ADD NOTE NO. 8
		BUREAU OF TRAFFIC
	PREPARED BY:	
1	CEMCON, Led.	
1	Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Sulte 100 Aurora, Illinois 60504-9675	
	Ph: 630.862.2100 Fax: 630.862.2199 E-Mall: caddacemcon.com Website: www.cemcon.com	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION

COUNTY TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE HORIZ. DATE 10/18/2002

COUNTY TOTAL SHEET NO.

CONTRACT NO. 60G42

21 4

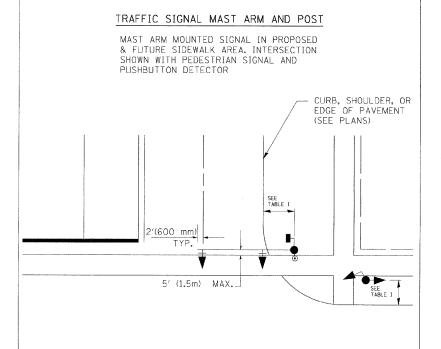
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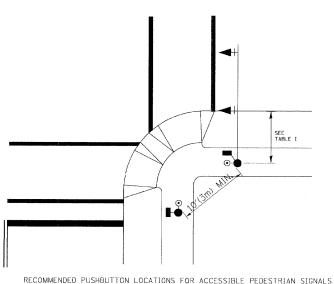
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	DRAWN	-	RDS	REVISED	-
PLOT SCALE = 1*=20'	CHECKED	-	BPT	REVISED	-
PLOT DATE = 03-18-09	DATE	-	03-18-09	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	DISTRIC	T 1 STAND	ARD	TRAFFIC	SIGNAL	DESIGN DETAILS	F.A.P. RTE.	SEC	CTION	COUNTY
								2009-	037 TS	WILL
		T								CONTRAC
l	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO.	ILLINOIS FED. A	ID PROJECT



#### PEDESTRIAN SIGNAL PUSHBUTTON



SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCO (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE

MOUNTED ON A SEPARATE POST.

#### NOTES:

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

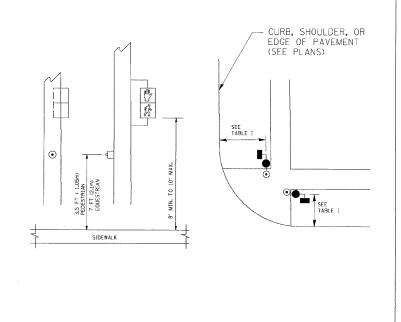
AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m), THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

#### PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION



#### TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

CEMCON, Led. Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100 Aurora, Illinois 6504-9675 Ph: 650.862.2100 Fax: 630.862.2199 E-Mail: caddocumcan.com Website: www.cemcon.com ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE DATE 10/18/2002

NAME DATE
BUREAU OF TRAFFIC 1/01/02

DESIGNED BY: DAD CHECKED BY: DAZ SHEET 2 OF 4 TS05

FILE NAME = MICROST\352072\ 05-TS05B

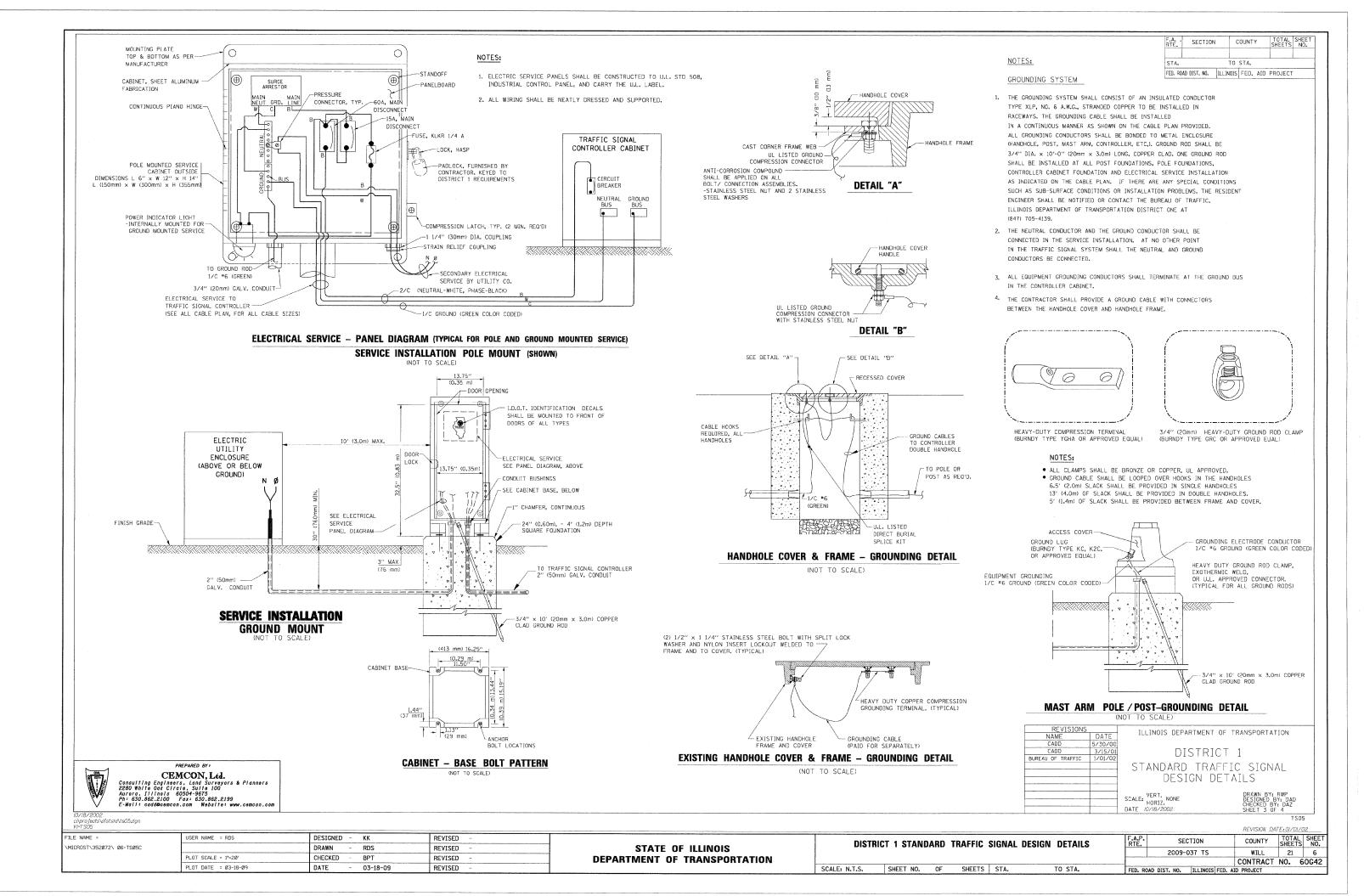
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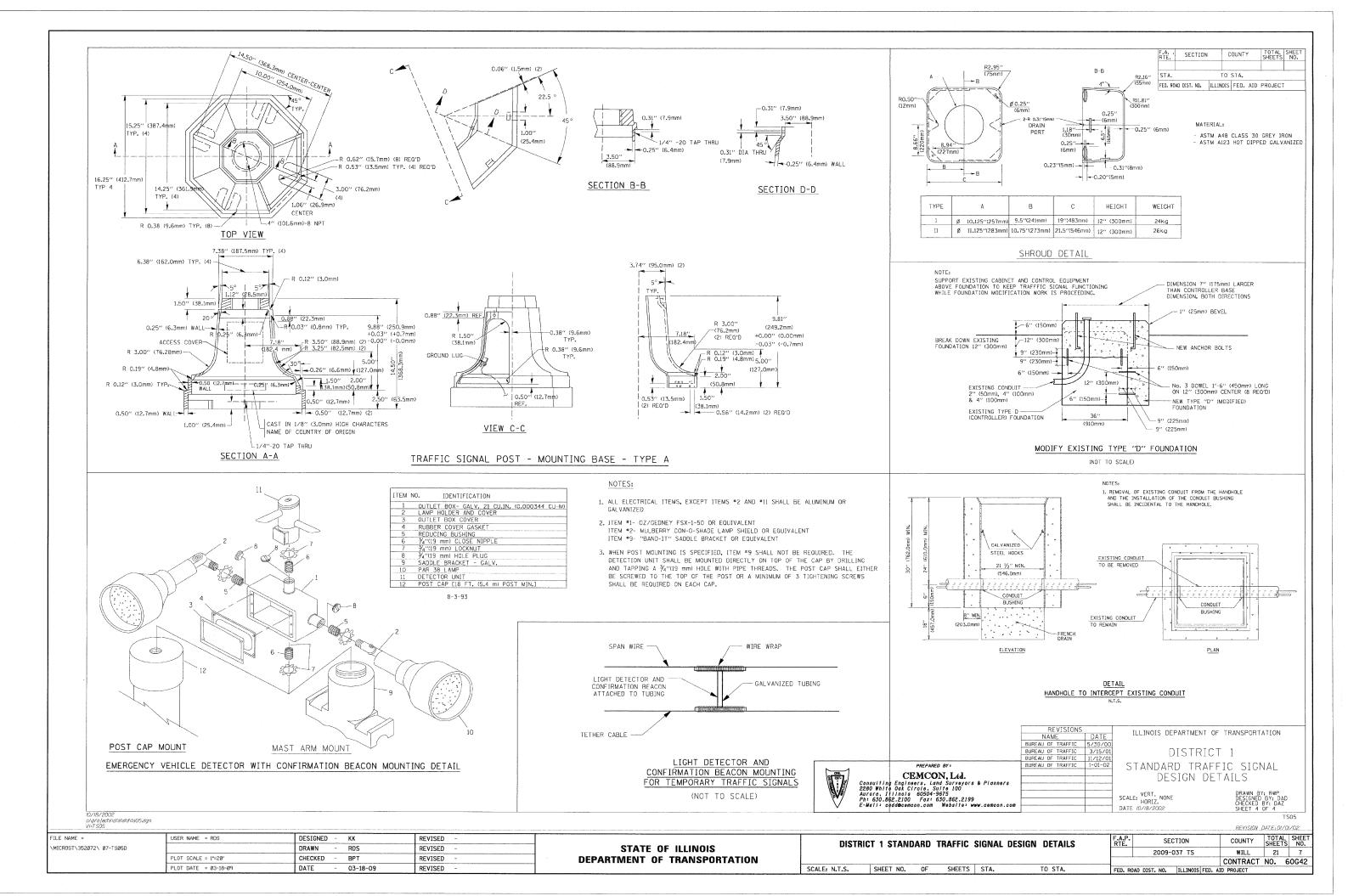
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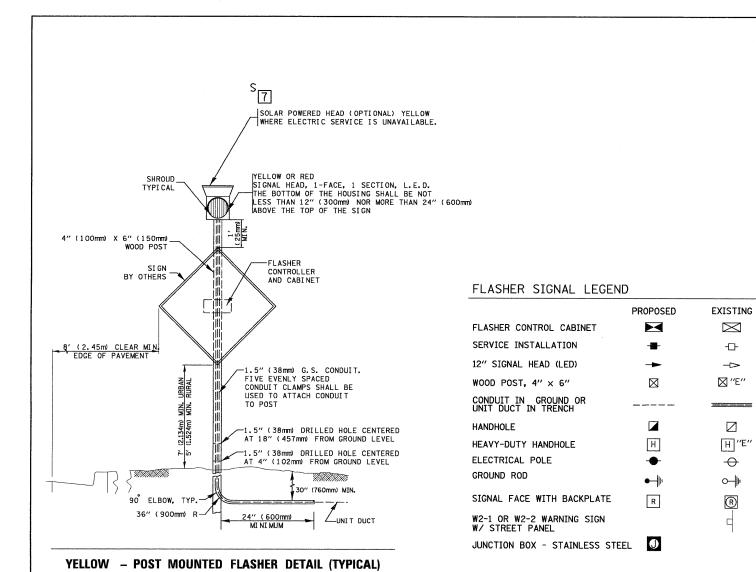
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

SECTION COUNTY 2009-037 TS WILL CONTRACT NO. 60G42 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT





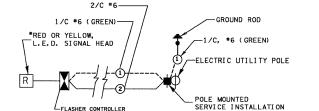


3 4 × 5 6 7 (STATE) (ROUTE) 1246 SEE NOTE 4  $\overline{}$ 6 3 **VARIOUS PLANS – TRAFFIC SIGNAL FLASHERS** N.T.S. 1 U.S. ROUTE 45/52 @ WILMINGTON/ PEOTONE RD. (VILLAGE OF PEOTONE)

- 2 GOVERNORS HWY. @ STUENKEL RD. (VILLAGE OF UNIVERSITY PARK)
- 3 U.S. ROUTE 52 @ LARAWAY RD. (CITY OF JOLIET)
- 4 U.S. ROUTE 6 @ PARKER RD. (VILLAGE OF MOKENA)
- 5 U.S. ROUTE 6 @ BRANDON RD. (CITY OF JOLIET)
- 6 IL. ROUTE 129 @ STRIP MINE RD. (CITY OF WILMINGTON)
- 7 IL. ROUTE 126 @ ESSINGTON RD. (CITY OF PLAINFIELD)

#### NOTES:

REMOVAL OF INCANDESCENT OPTICS ARE INCLUDED IN L.E.D. RETROFIT PAY ITEM



#### TYPICAL CABLE PLAN

 YELLOW FLASHER - MOUNTED IN ADVANCE OF INTERSECTION RED FLASHER - MOUNTED AT INTERSECTION

#### SCHEDULE OF QUANTITIES

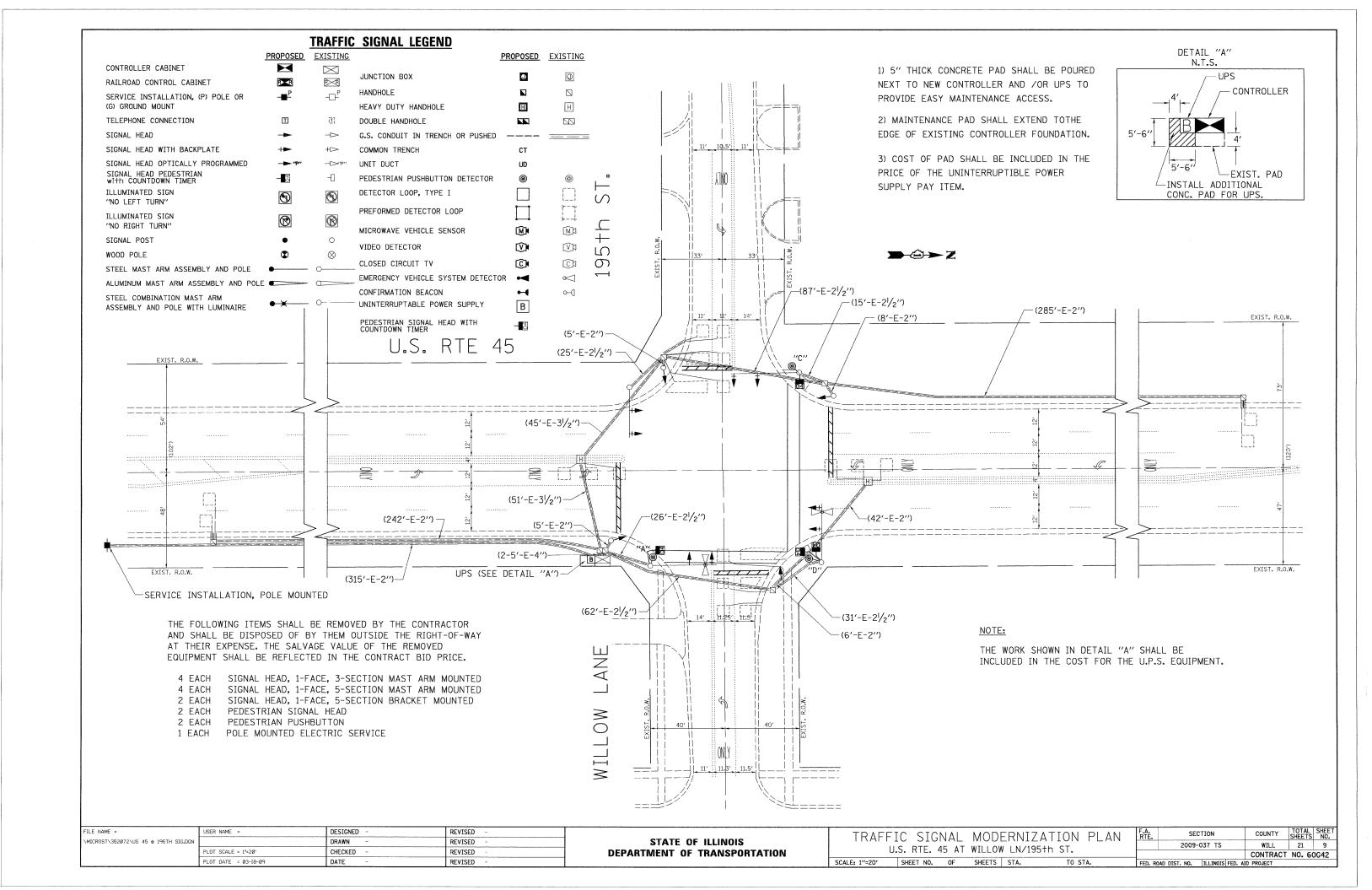
ITEMUNITQUANITITYMAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATIONEACH1SIGNAL HEAD, L.E.D. 1-SECTION, SPAN WIRE MOUNTED, RETROFITEACH4

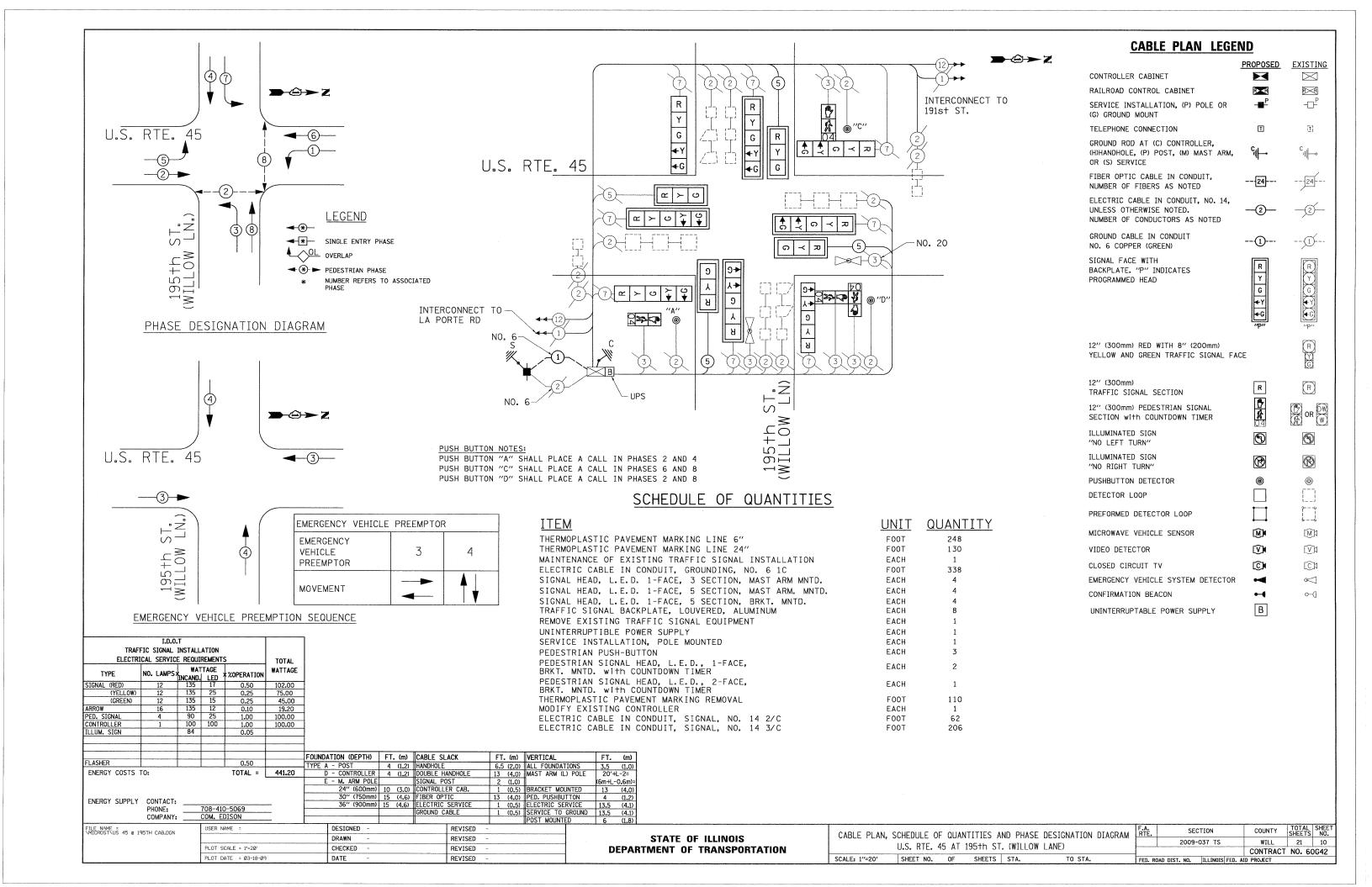
L.E.D. FL	ASHERS -	SCHEDUL	LE OF C	TITMAUG	TES		
	120	2	[3]	(4)	(5)	<b>6</b>	
ITEM DESCRIPTION	U.S. RTE. 45/52 @ WILMINGTON PEOTONE RO.	GOVERNOR'S HWY @ STUENKEL ROAD	u,s. rte, 52 0 Laraway Road	U,S. RTE. 6 PARKER ROAD	U.S. RTE. 6 8 BRANDON ROAD	IL. RTE. 129 STRIP MINE RD.	IL. RTE, 126 ESSINGTON RD,
TRAFFIC SIGNAL FLASHER 1-SECTION, L.E.D (RED)	4	4		1		1	
TRAFFIC SIGNAL FLASHER 1-SECTION, L.E.D (YELLOW					*/////		

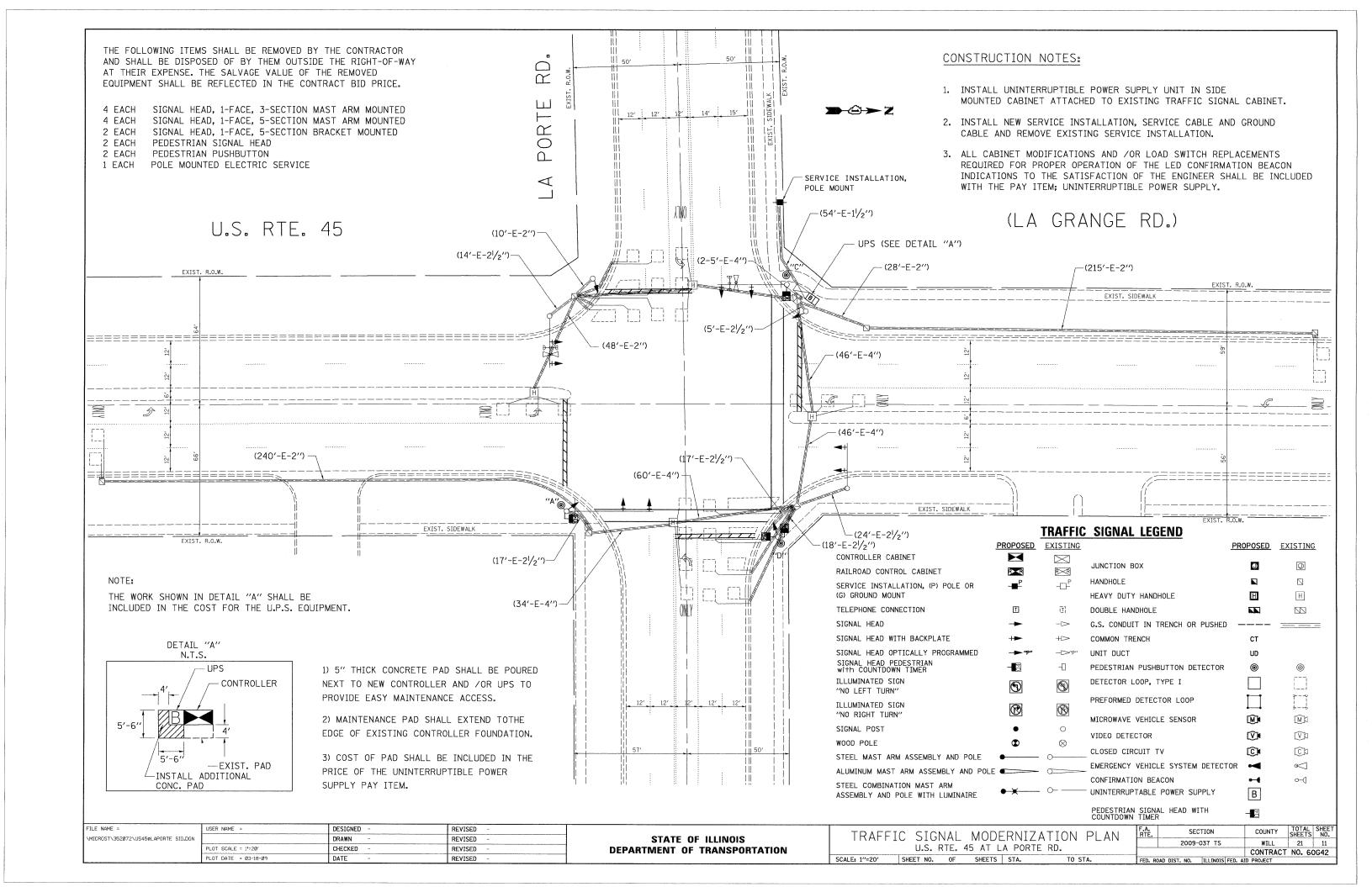
- \* ADVANCED WARNING FLASHER WESTBOUND U.S. ROUTE 6 (IDOT CONTRACT)
- $\Delta$  advanced warning flasher(s) north & southbound il. Route 129 @ Strip mine RD.
- ☐ ADVANCED WARNING FLASHER(S) EAST & WESTBOUND U.S. ROUTE 6 @ PARKER RD.
- S ADVANCED WARNING FLASHER WESTBOUND (SOLAR POWERED) ON IL. ROUTE 126

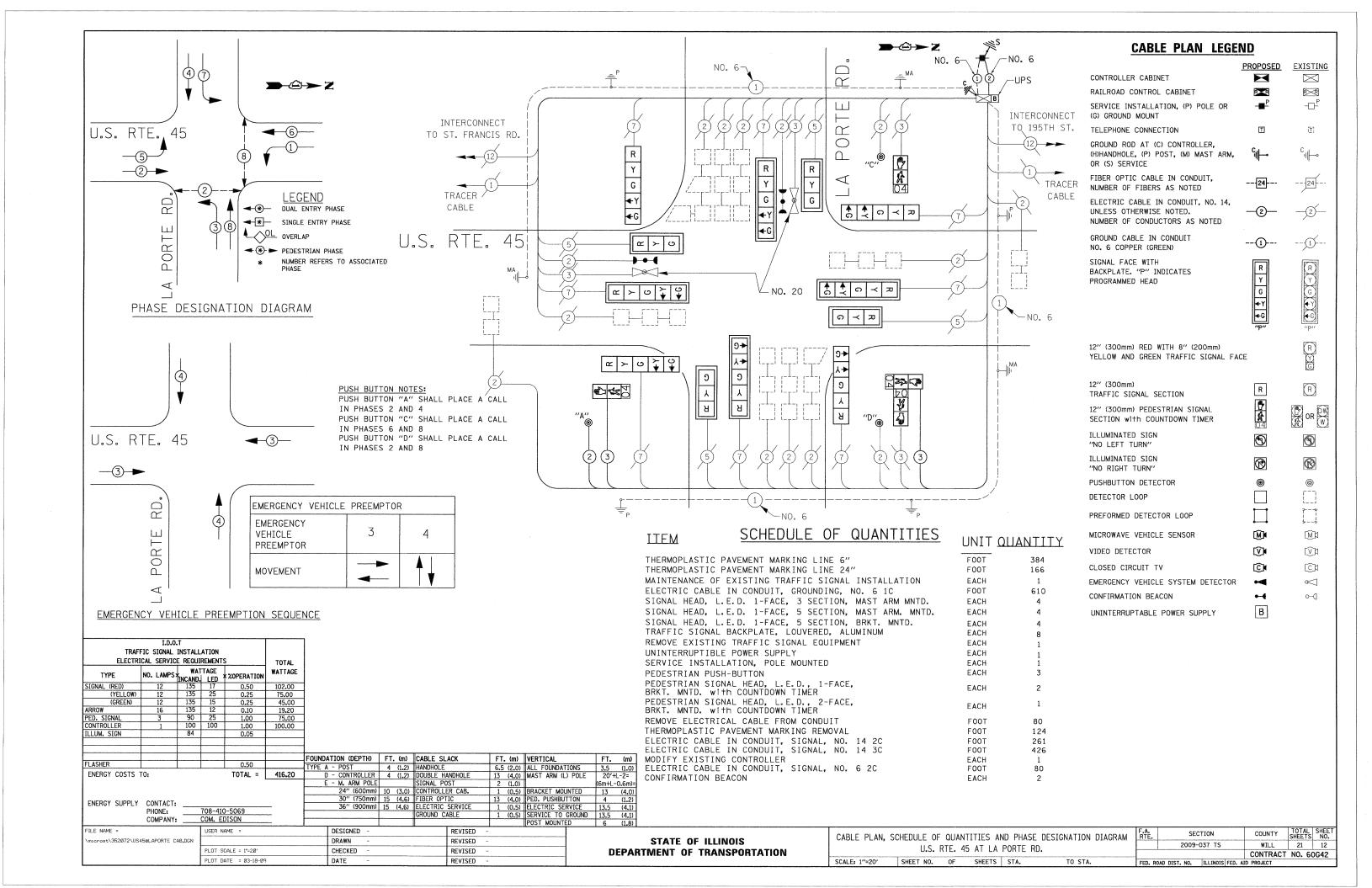
NOT APPLICABLE THIS LOCATION

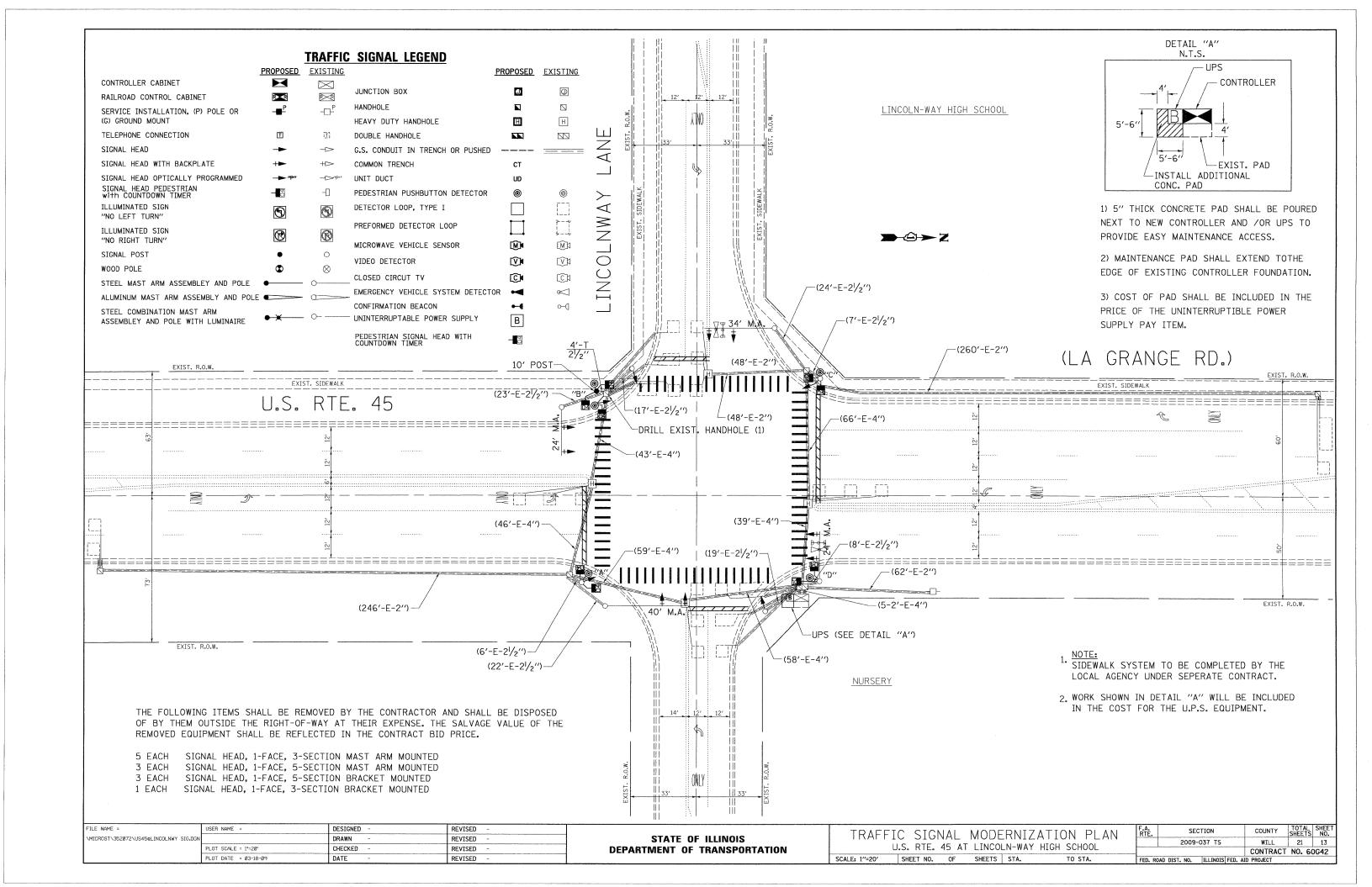
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\MICROST\352072\LED FLASHER LOC.DGN		DRAWN -	REVISED -	STATE OF ILLINOIS	"	LAN -						RIE.		e will	SHEE	-15 NU	<u>,'</u>	
	PLOT SCALE = 1°=20'	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	GOVERNOR'S HIGHWAY AT STUENKEL ROAD				EPARTMENT OF TRANSPORTATION GOVERNOR'S HIGHWAY AT STUENKEL ROAD				<u> </u>	2009-037 TS	CONTRA	CT NO	60G42	2
	PLOT DATE = 03-18-09	DATE -	REVISED -		SCALE:	N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD I	DIST. NO. ILLINO	IS FED. AID PROJECT	<u> </u>	- 00042	-	
					<del></del>		<del></del>											

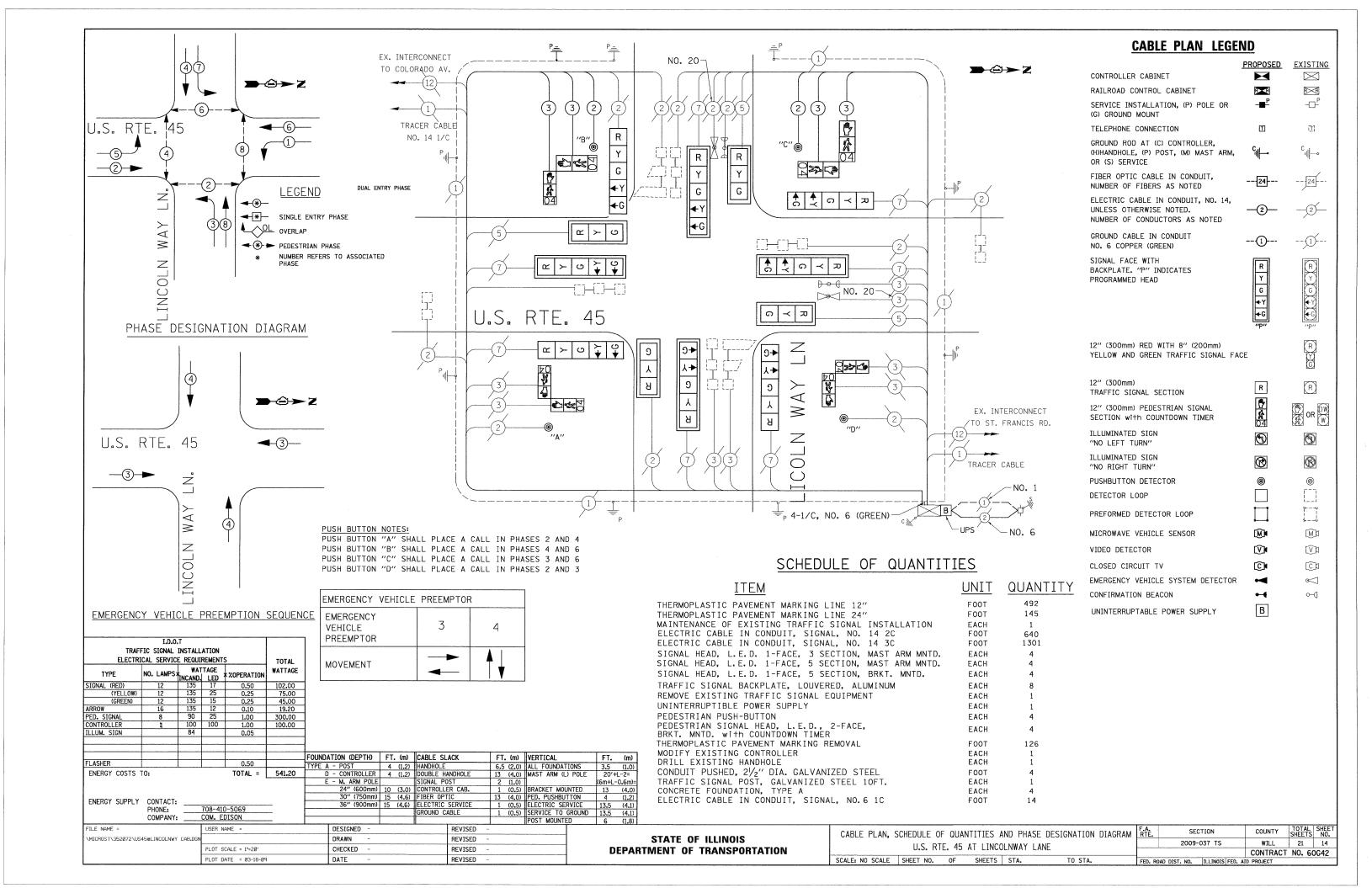


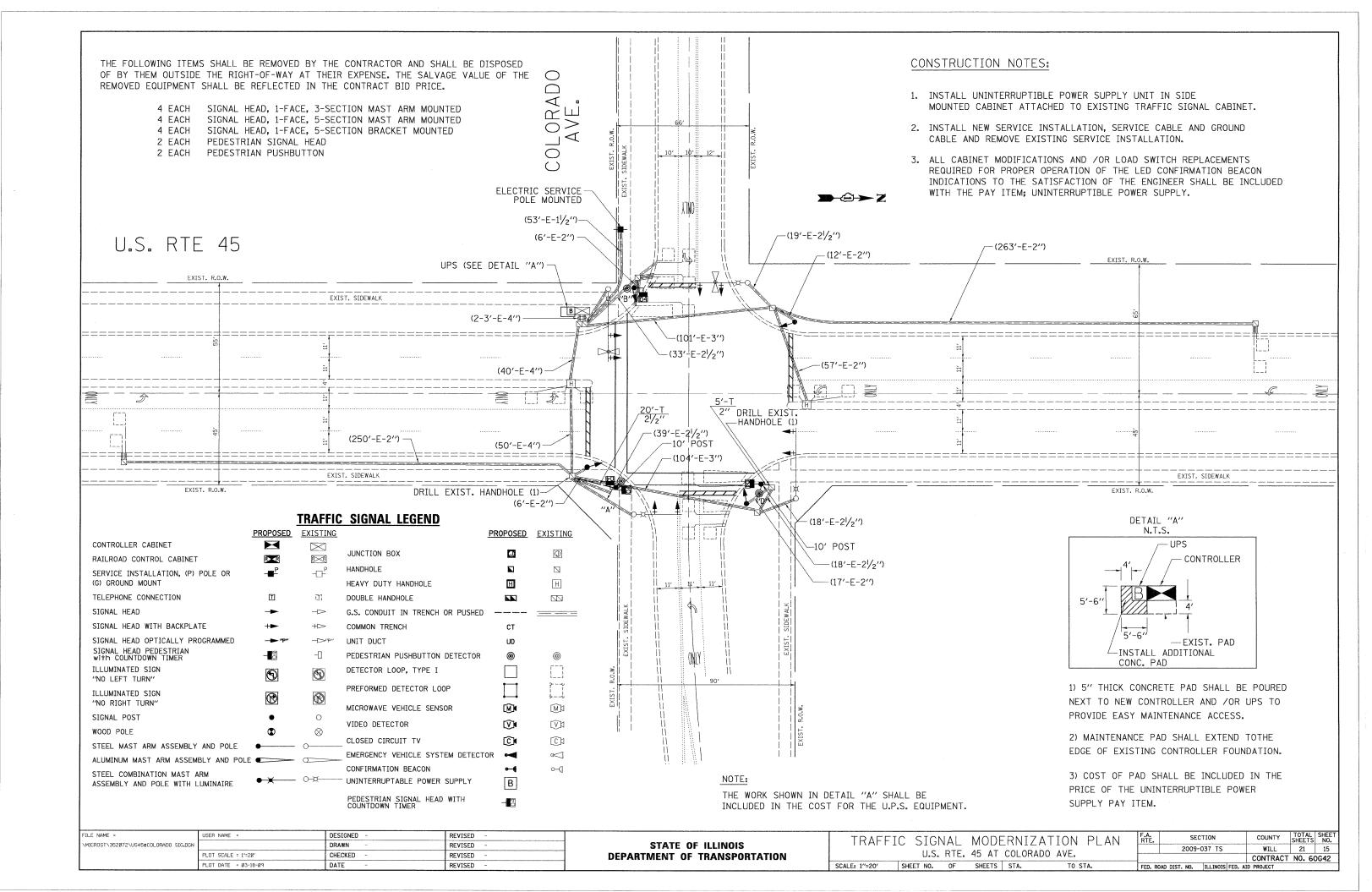


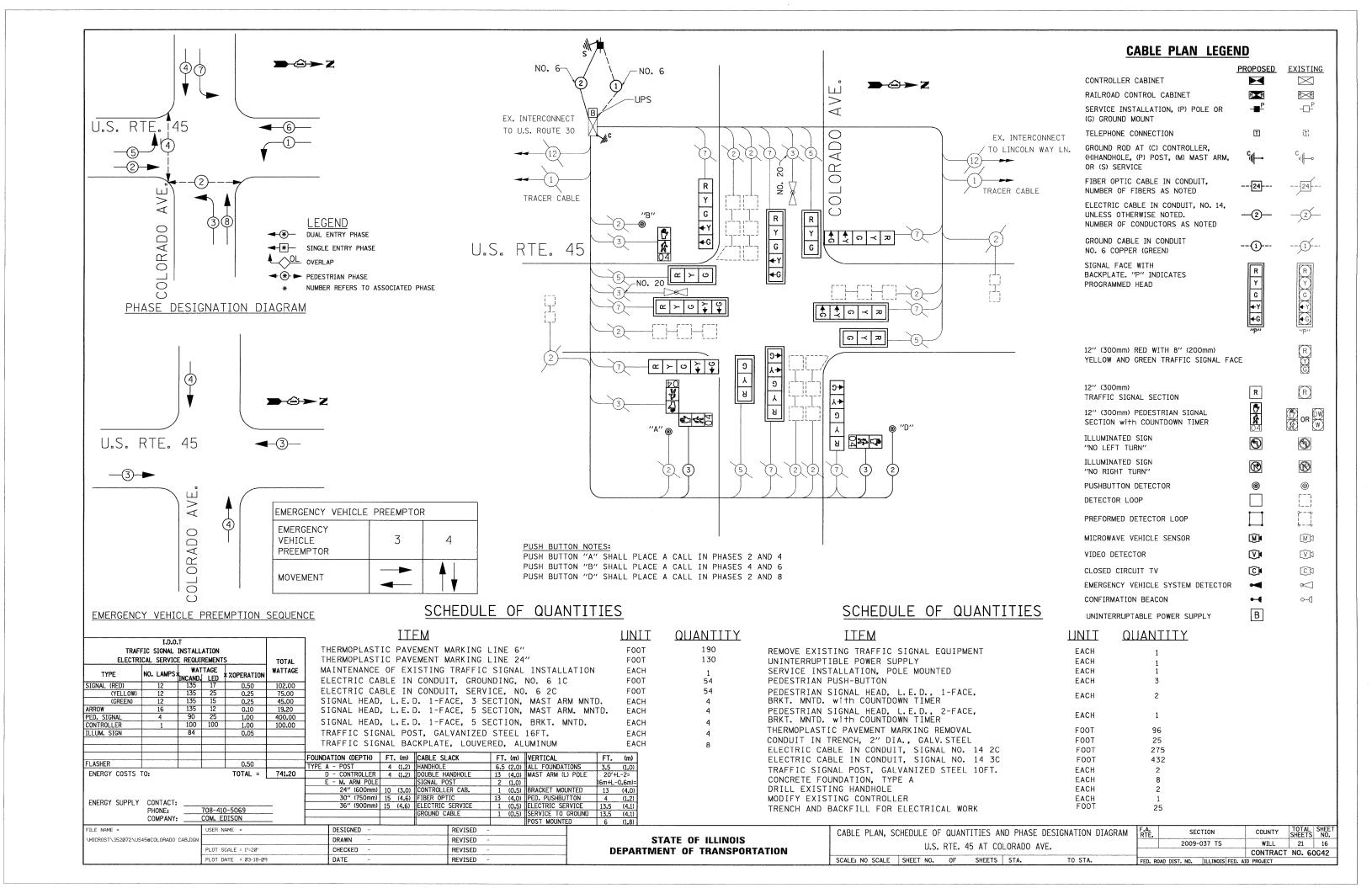


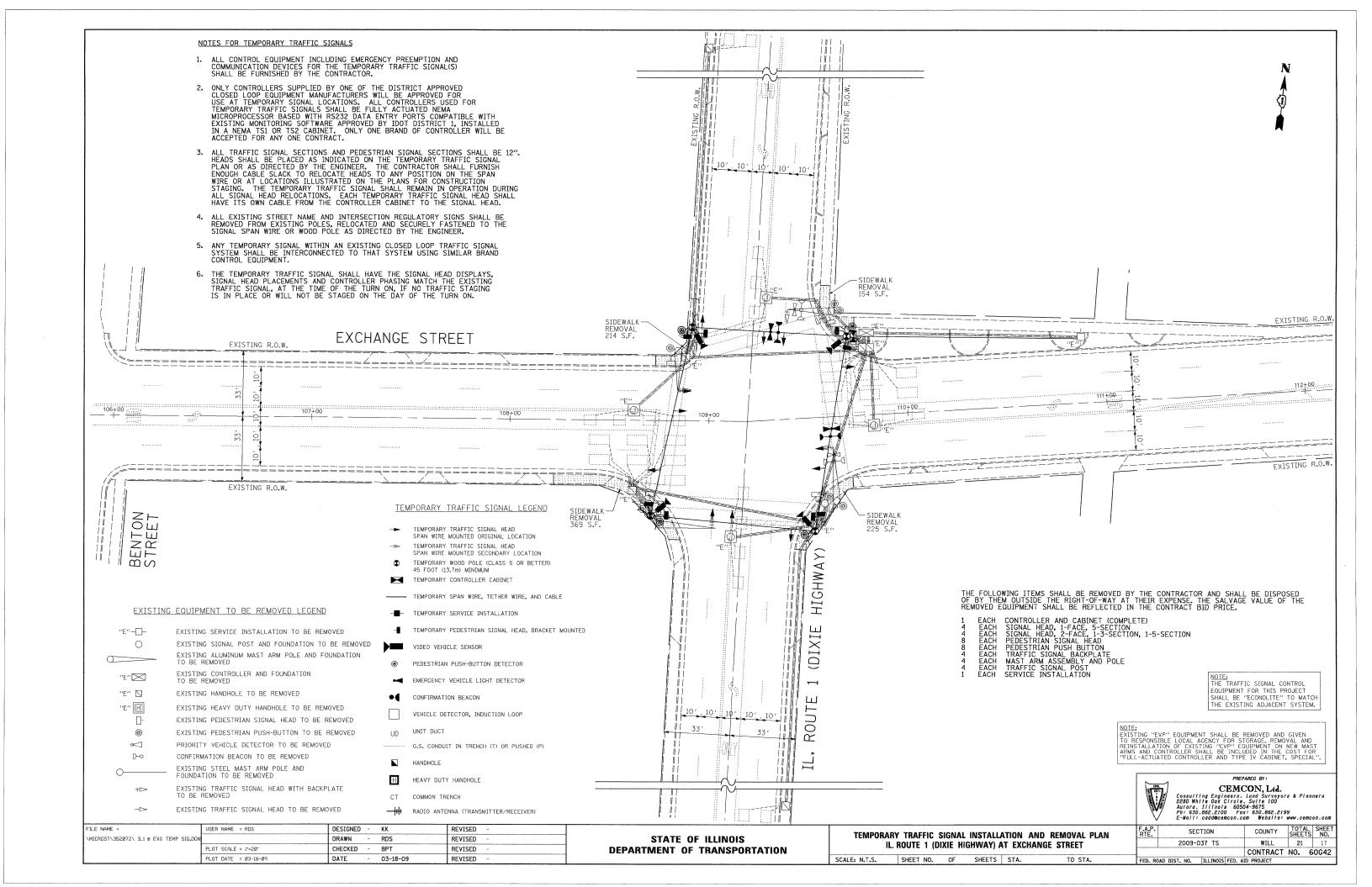


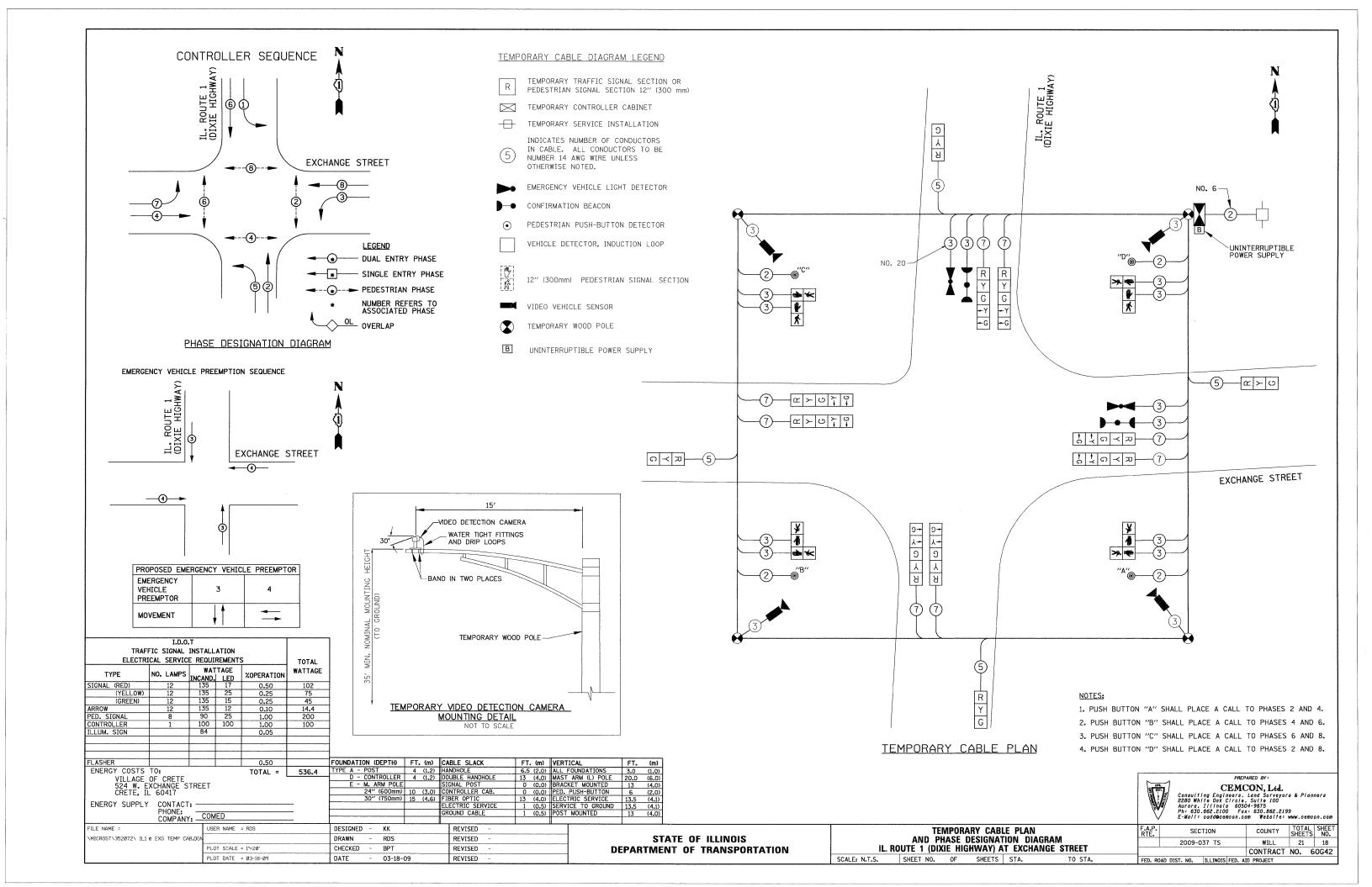


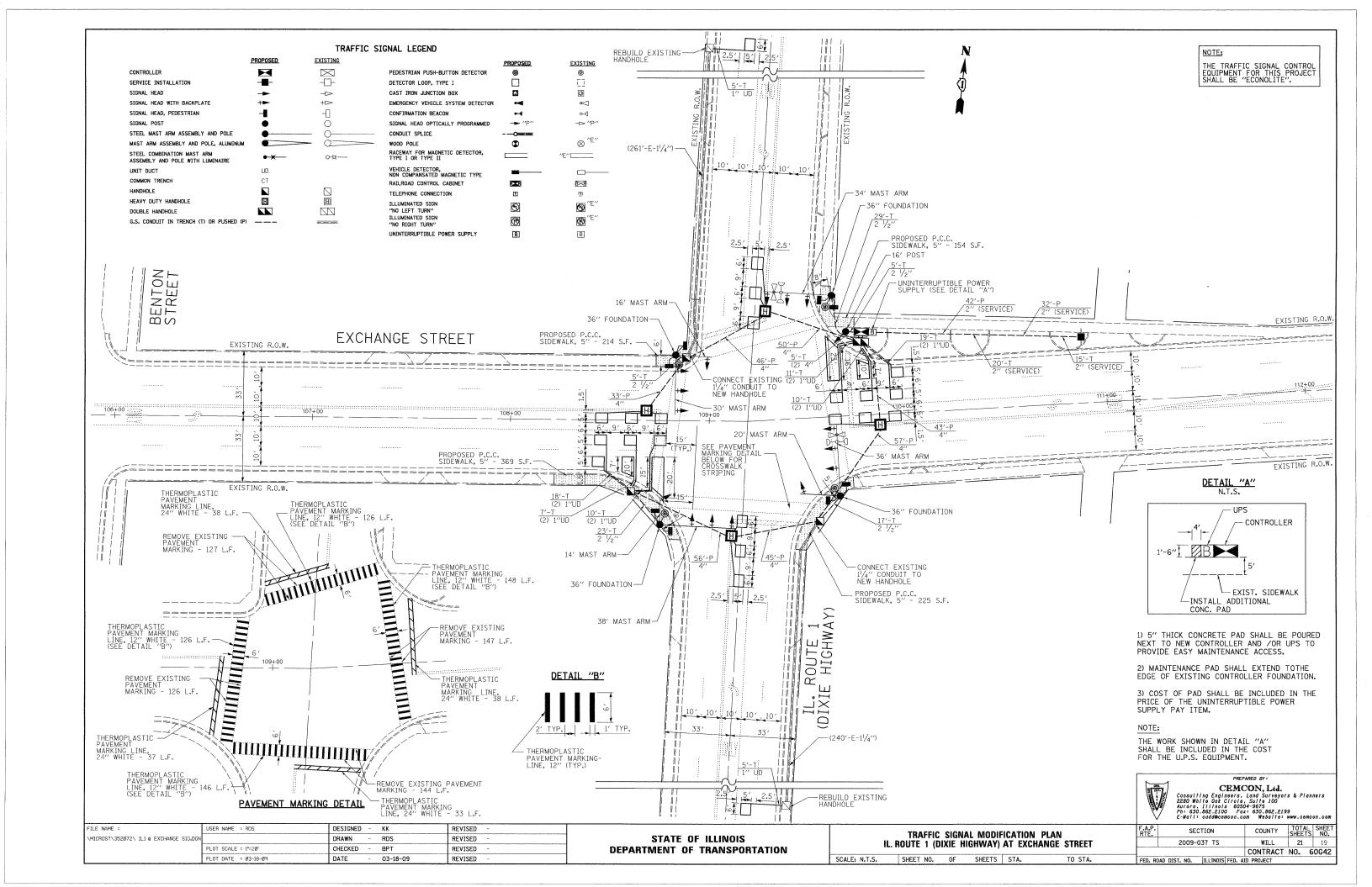


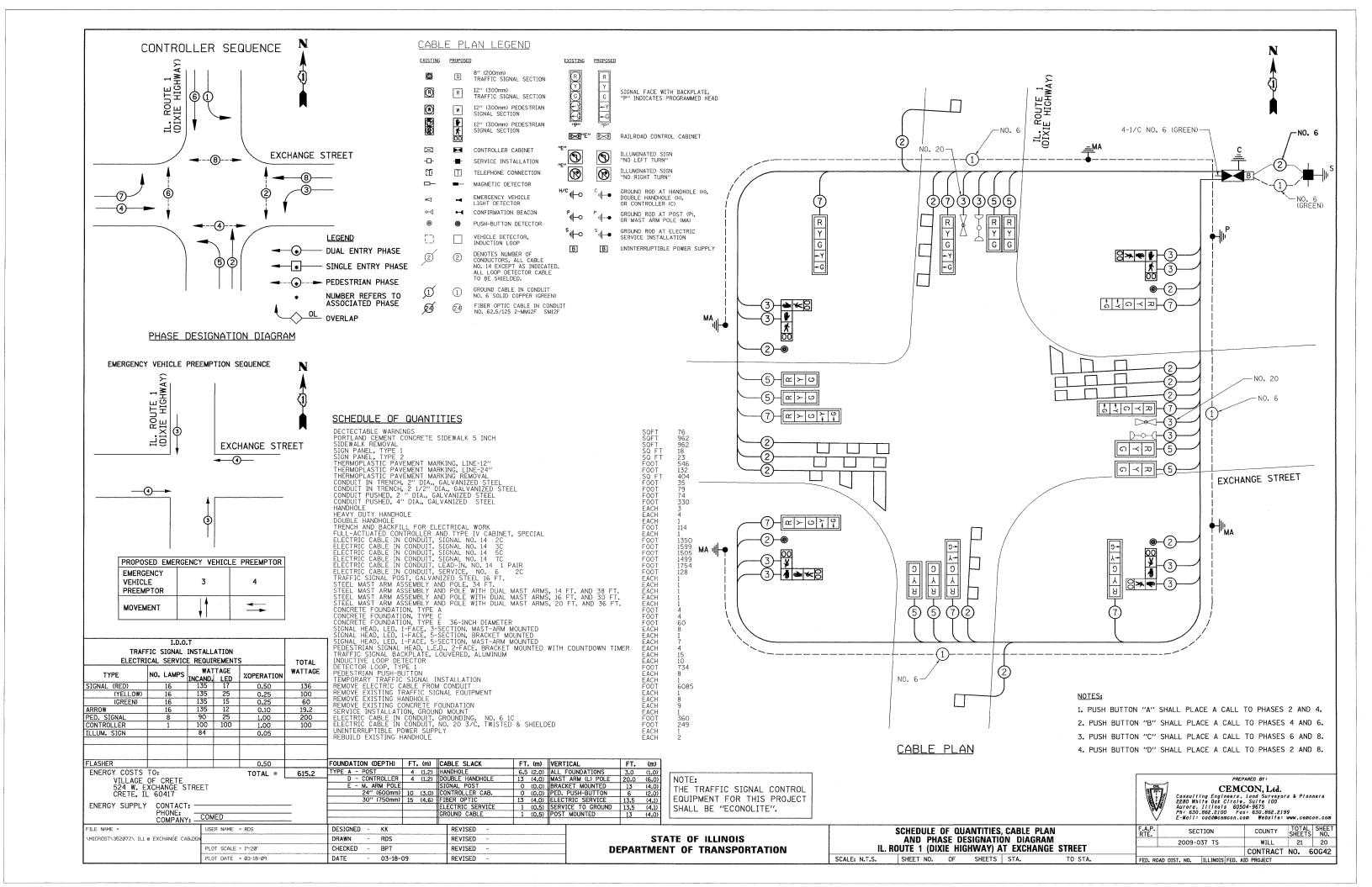


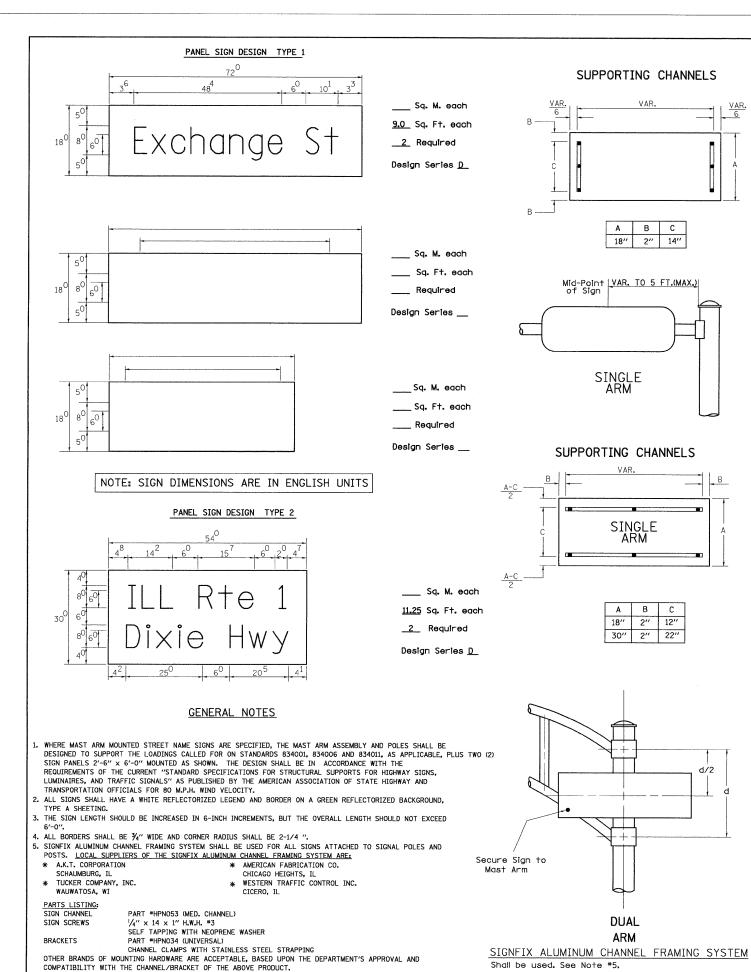












DESIGNED - KK

DRAWN - RDS

BPT

03-18-09

CHECKED

DATE

REVISED

REVISED

REVISED

REVISED

FILE NAME =

MICROST\352072\ ST NAME EXCHANGE.D

USER NAME = RDS

PLOT SCALE = 1'=20'

PLOT DATE = Ø3-18-Ø9

Upper Case To Lower Case

Spacing Chart 8-6 Inch Series "C & D"

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

UPPER AND LOWER CASE LETTER WIDTHS

		SECOND LETTER															
		acde goq		bhikl mnpru		f	f w		j		s t		νу		<		z
	SERIES	С	D	С	D	С	D	C	D	С	D	С	D	С	D	С	D
	AWX	12	14	14	15	12	14	06	10	1 <sup>1</sup>	14	06	10	11	12	12	14
	В	14	1 <sup>5</sup>	20	2 <sup>1</sup>	14	1 <sup>5</sup>	1 <sup>1</sup>	12	14	1 <sup>5</sup>	12	14	1 <sup>2</sup>	14	16	17
	CEG	14	1 <sup>5</sup>	20	2 <sup>1</sup>	1 <sup>2</sup>	14	06	10	1 <sup>2</sup>	14	1 <sup>2</sup>	14	14	15	14	15
F	DOQR	14	1 <sup>5</sup>	20	2 <sup>1</sup>	14	1 <sup>5</sup>	06	10	12	14	12	14	14	15	14	1 <sup>5</sup>
F I R	F	05	06	14	1 <sup>5</sup>	06	10	05	06	6	10	06	10	06	10	11	12
S T	HIMN	20	21	2 <sup>2</sup>	24	20	2 <sup>1</sup>	14	1 <sup>5</sup>	16	17	1 <sup>6</sup>	17	20	2 <sup>1</sup>	20	21
i	JU	2 0	2 <sup>1</sup>	20	2 <sup>1</sup>	16	17	14	1 <sup>5</sup>	1 <sup>6</sup>	17	16	17	1 <sup>6</sup>	17	20	2 <sup>1</sup>
Ē	K L	1 <sup>1</sup>	1 <sup>2</sup>	16	17	1 <sup>1</sup>	1 <sup>2</sup>	05	06	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	12	1 <sup>1</sup>	1 <sup>2</sup>	12	14
JUTTER	Р	1 <sup>2</sup>	14	14	1 <sup>5</sup>	1 <sup>2</sup>	14	05	06	1 <sup>1</sup>	12	1 <sup>1</sup>	1 <sup>2</sup>	12	14	1 <sup>2</sup>	14
R	S	1 <sup>2</sup>	14	16	17	12	14	06	1 <sup>0</sup>	1 <sup>2</sup>	14	1 <sup>2</sup>	14	12	14	1 <sup>2</sup>	14
	T	11	1 <sup>2</sup>	16	17	06	10	06	10	1 <sup>1</sup>	12	11	1 <sup>2</sup>	11	12	1 <sup>2</sup>	14
	٧	06	10	14	15	11	12	06	10	1 <sup>2</sup>	14	12	14	12	14	12	14
	Υ	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
	Z	16	17	2 <sup>2</sup>	24	16	17	12	14	1 <sup>6</sup>	17	16	17	16	17	20	2 <sup>1</sup>

Lower Case To Lower Case

Spacing Chart 6 Inch Series "C & D"

		SECOND LETTER															
		a c g c	d e	bhikl mnpru		fw		J		s t		νу		×		z	
1	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
FI	adhgij Imnqu	1 <sup>6</sup>	17	2 <sup>2</sup>	24	16	17	12	14	14	1 <sup>5</sup>	14	15	16	17	16	17
I R S	bfkops	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
T	се	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
Ę	r	06	10	12	14	06	10	03	03	05	Oe	05	06	06	10	06	10
Ē	† z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
Ė	νу	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
'`	w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
	×	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

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

- 1										~~~~														-
SECOND NUMBER																								
				(	0		1		2		3		4		5		6		7	8		9		
		SE	RI	ES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
-	F	0	9		1 <sup>6</sup>	17	16	17	14	1 <sup>5</sup>	12	14	14	1 <sup>5</sup>	14	1 <sup>5</sup>	16	17	12	14	16	17	1 <sup>6</sup>	17
	R	1			2 <sup>0</sup>	21	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	16	17	14	1 <sup>5</sup>	20	21	2 <sup>0</sup>	21	14	1 <sup>5</sup>	20	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
	T	2	3	4	14	1 <sup>5</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>2</sup>	14	12	14	14	1 <sup>5</sup>	14	1 <sup>5</sup>	11	1 <sup>2</sup>	1 <sup>6</sup>	17	14	1 <sup>5</sup>
	N U	5			14	1 <sup>5</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>	11	1 <sup>2</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>
	M B	6			16	17	14	1 <sup>5</sup>	14	1 <sup>5</sup>	12	1 <sup>5</sup>	1 <sup>2</sup>	14	14	1 <sup>5</sup>	14	1 <sup>5</sup>	11	1 <sup>2</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>
	E R	7			1 <sup>2</sup>	14	1 <sup>2</sup>	14	14	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	05	06	1 <sup>2</sup>	14	14	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	14	1 <sup>5</sup>	1 <sup>2</sup>	14
		8			1 <sup>6</sup>	17	1 <sup>6</sup>	17	14	15	1 <sup>2</sup>	15	12	14	14	15	16	17	12	14	16	17	14	1 <sup>5</sup>

E T T R S		I UPPER LETTERS		H UPPER LETTERS	L E T	6 INCH LOWER CASE LETTERS				
T E_	SEF	RIES	SE	RIES	E T T E R	SEI	RIES			
R S	С	D	С	D	R S	С	D			
Α	3 <sup>6</sup>	50	5 <sup>0</sup>	65	a	35	42			
В	3 <sup>2</sup>	40	43	53	b	3 <sup>5</sup>	42			
C	3 <sup>2</sup>	40	43	53	С	3 <sup>5</sup>	4 1			
D	3 <sup>2</sup>	40	43	53	đ	3 <sup>5</sup>	42			
Ε	30	35	40	47	е	35	42			
F	30	35	40	47	f	23	26			
G	3 <sup>2</sup>	40	43	53	g	3 <sup>5</sup>	42			
Н	3 <sup>2</sup>	40	43	5 <sup>3</sup>	h	35	4 <sup>2</sup>			
I	07	07	11	12	ī	1 <sup>1</sup>	1 <sup>1</sup>			
J	3 <sup>0</sup>	36	40	50	J	20	22			
К	32	41	43	5 4	k	35	42			
L	30	35	40	47	ı	11	1 1			
М	3 <sup>7</sup>	45	5 <sup>1</sup>	6 <sup>1</sup>	m	60	70			
N	32	40	43	53	n	35	42			
0	34	42	45	55	0	36	43			
Р	3 <sup>2</sup>	40	43	<sub>5</sub> 3	Р	35	42			
Q	34	4 <sup>2</sup>	45	55	q	35	42			
R	32	40	43	<sub>5</sub> 3	r	26	32			
s	3 <sup>2</sup>	40	43	5 <sup>3</sup>	8	36	42			
Т	3 <sup>0</sup>	35	40	47	†	27	32			
U	32	40	43	<sub>5</sub> 3	Ü	35	42			
v	35	44	47	60	<b>v</b>	42	4 7			
W	44	5 <sup>2</sup>	60	70	w	55	64			
х	34	40	45	53	×	44	5 <sup>1</sup>			
Y	36	50	5 <sup>0</sup>	6 <sup>6</sup>	У	46	53			
Z	3 <sup>2</sup>	40	43	53	z	36	43			

NUL	6 INCH	SERIES	8 INCH SERIES					
N <sub>UMBER</sub>	С	D	С	D				
1	1 <sup>2</sup>	14	15	20				
2	3 <sup>2</sup>	40	43	5 <sup>3</sup>				
3	32	40	43	53				
4	35	43	47	57				
5	3 <sup>2</sup>	40	43	53				
6	3 <sup>2</sup>	40	43	53				
7	3 <sup>2</sup>	40	43	<sub>5</sub> 3				
8	32	40	43	53				
9	3 <sup>2</sup>	40	43	53				
0	34	42	45	55				

PREPARED BY:
CEMCON, Ltd.

CONSULTING Engineers. Lond Surveyors & Planners 2280 White Oak Circle. Sulte 100
Aurora. Illinois 60504-9575
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E-Mail: coddocomcon.com Website: www.cemcon.com

							1	,			
STATE OF ILLINOIS		MAST AR	VI IVIO	UNTED ST	REET NA	AME SIGN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	IL. ROUTE 1 (DIXIE HIGHWAY) AT EXCHANGE STREET							2009-037 TS	WILL	21	21
DEPARTMENT OF TRANSPORTATION		,				· · · · · · · · · · · · · · · · · · ·			CONTRACT	NO. 6	0G42
	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. ILLINOIS FED. A	ID PROJECT		