DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1 **HIGHWAY SAFETY IMPROVEMENT PROJECT** LIGHTING AND TRAFFIC SIGNAL MODERNIZATION

U.S. ROUTE 12 (RAND ROAD) FROM OLD HICKS ROAD TO WEST FRONTAGE ROAD /IL ROUTE 53 WEST RAMP F.A.P. ROUTE 334 PROJECT: HSIP-000S(664)

F.A.P. ROUTE 343

C-91-2**7**7-09

JOB

BEGINNING OF PROJECT N RAND RD - STA. 100 + 00

BEGINNING OF PROJECT W DUNDEE RD - 1007 + 71

D-91-277-09

COUNTY

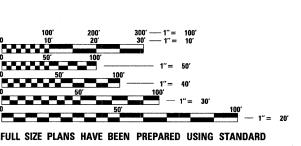
LOCATION MAP (N.T.S.)

COOK

FOR DRAWINGS _____TO ____TO



EXPIRES Nov. 30, 2009 FOR DRAWINGS 45 TO 80



FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGE OF PALATINE

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 LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER - SIGNALS: CHAD HAMMERL PROJECT ENGINEER - LIGHTING: CECIL STOVAL PROJECT MANAGER - KENNETH GLASSMAN

CONTRACT NO. 60F87

IL ROUTE 53 /68 (DUNDEE ROAD)
FROM LYNDA DRIVE TO IL ROUTE 53 WEST RAMP

SECTION

2008-08-31



DATE 1/27/2009

END OF PROJECT W DUNDEE RD 1060+50

END OF PROJECT N RAND RD 171+91

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS SUBMITTED Jon DENOTE ME O'KENE POR
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER March 27, 20,09 Christin M. Red D DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

LOCATION OF SECTION INDICATED THUS: -

COUNTY TOTAL SHEET NO.

COOK 80 1

\$ 80+1=81

SECTION

2008-08-31

D-91-277-09

FED. ROAD DIST. NO. ILLINOIS CONTRACT NO. 60F87

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

(847) 705-4420

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INDEX OF SHEETS

USER NAME = \$USER\$

PLOT SCALE = \$SCALE\$

PLOT DATE = 1/27/2009

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DESIGNED

DRAWN

CHECKED

- 1/22/2009

DATE

REVISED

REVISED

REVISED

REVISED

LIST OF STANDARDS

000001 -0 :	
424001-04	DECIMAL EQUIVALENTS OF AN INCH AND FOOT
424001-0	
606001-04	
606301- <i>0</i> 4	• • • • • • • • • • • • • • • • • • • •
701501-09	, -··, -··
701502 -23	• • • • • • • • • • • • • • • • • • • •
701601 - 0 0	
701606 -04	
701701 - 06	MULTILANE INTERSECTION
720016- <i>0</i> 2	MAST ARM MOUNTED STREET NAME SIGNS
805001 -0/	ELECTRICAL SERVICE INSTALLATION DETAILS
814001 - 02	HANDHOLES, POLYMER CONCRETE, SINGLE
814006 <i>-02</i>	HANDHOLES, CONCRETE AND POLYMER CONCRETE, DOUBLE
857001 -01	PHASE SEQUENCES
862001 -0 1	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001- <i>02</i>	TRAFFIC SIGNAL GROUNDING & BONDING
877001 -04	MAST ARM ASSEMBLY AND POLE 16' THROUGH 55', STEEL
877006 -0 3	MAST ARM ASSEMBLY AND POLE, STEEL, DUAL MAST ARMS
877011-04	
880001-01	
880006-01	
886001 <i>-01</i>	
230001 6,	BEIEGIGH EGGI MOINEENIIGHG

| STATE OF ILLINOIS | STATE OF TRANSPORTATION | SCALE; NONE | SHEET NO. OF SHEETS STA. TO STA. | FED. ROAD DIST. NO. | ILLINOIS | FE

CODE			90% FED.														
	ITEM DESCRIPTION	UNIT	<i>10% STP9TE</i> TOTAL QUANTITY			JS <u>1</u> 2	LIS	12	T	STRUCTION T	1	3/68	11 5	3 /6 0	INTERCONNECT	INTERCONNECT	
			URBAN	US 12 (RAND RD.) (OLD HICKS	(DUN	US 12 (RAND RD.) © IL 53/68 (DUNDEE RD.)		US 12 (RAND RD.) @ WINSLOWE		12 RD.) @ IAMS	@ BALD	33/68 EE RD.) DWIN LN.	IL 5 (DUNDE @ KEN	NEDY	INTERCONNECT U.S. 12 (RAND RD.)	<u> </u>	
20101700	SUPPLEMENTAL WATERING	UNIT	1	Y031 1F Y03	2-1F* Y031 1F 0.34	Y0321E*	Y031 1F 0.33	Y032-1F*	Y031 1F 0.33	Y032-IF*	Y031 1F	Y032-1F*	Y031 1F	Y032-1E*	Y031-1F	Y031-1F	Y03
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	50		8		28		14								
25200100	SODDING	SQ YD	50		8		28		14								
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	8,697	443	2,714		1,110		1,312		62						3,0
42400800	DETECTABLE WARNINGS	SQ FT	414	48	151		93		106		16						
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	597	30	193		89		95		20		170				
44000600	SIDEWALK REMOVAL	SQ FT	7,521	460	1,691		908		1,364		42						3,
44003100	MEDIAN REMOVAL	SQ FT	1,356		1,044								312				
60255500	MANHOLES TO BE ADJUSTED	EACH	1		1												
60600605	CONCRETE CURB, TYPE B	FOOT	702	86	121		264		205		26						
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	170		121		204		203		20		170				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	427	30	107		9.0		O.F.		20		110				
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	312		193		89		95		20		312				
67000400	ENGINEER'S FIELD OFFICE, TYPE A		12	2			7		63		1		1				
		CAL MO			2		2.		2		1						
67100100	MOBILIZATION	L SUM	1	0.167	0.167		0.167		0.167		0.167		0.167				
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.167	0.167		0.167		0.167		0.167		0.167				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.167	0.167		0.167		0.167		0.167		0.167				
72000100	SIGN PANEL - TYPE 1	SQ FT	69	18			18		15		18						
72000200	SIGN PANEL - TYPE 2	SQ FT	215	15	50		25		25		30		70				
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,067		889		407		355		416						
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	696	93	263		113		99				128				
78300400	THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	819	120	194		277		119				109				
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1														
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1														
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	2,713	430	760	-	454		599		64		406				
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	61	22					13				26				
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	231	26	63		34		68				40				
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	1,931	59	116		12		16				12				1,
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1,067	150	385		212		26				294				
81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	28	28													
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	4,466	16													4-,4
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	3,404	158	724		270		274				262				1,-

* 100% OF THE COST WILL BE PAID FOR BY THE VILLAGE OF PALATINE

USER NAME = \$USER\$ DESIGNED -REVISED 000A_S00.dgn DRAWN - AEG REVISED PLOT SCALE = \$SCALE\$
PLOT DATE = 1/27/2009 CHECKED - CH, CS

DATE - 1/22/2009 REVISED REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES - SHEET 1 OF 4

TO STA.

SCALE: NONE SHEET NO. OF SHEETS STA.

				SU	MMARY OF QUA	NTITIES	FAP	334	***************************************			FA	P 343	FAP334	FAP 3	43
				90%. FEO. 10%. STATE			,		The second secon	CONSTRUCTION T	PE CODE					
	CODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY <i>URBAN</i>	US 12 (RAND RD.) @ OLD HICKS	US (RAND IL 5 (DUNDE	12 RD.) @ 33/68 EE RD.)	US 12 (RAND RD.) WINSLOW	e E	US 12 (RAND RD.) @ WILLIAMS	IL 5 (DUND @ BALI	53/68 EE RD.))WIN LN.	IL 53/68 (DUNDEE RD.) @ KENNEDY	INTERCONNECT U.S. 12 (RAND RD.)	INTERCONNECT IL 53/68 (DUNDEE RD.)	STREET LIGHTING
	81100900	CONDUIT ATTACHED TO STRUCTURE, 3 1/2" DIA., GALVANIZED STEEL	FOOT	75	Y031 1F Y032-JF*	Y031 1F	Y032-1E*	Y031 1F Y	032-1F*	Y031 1F Y03.2-√F*	Y031 1F	Y032-1F*	Y031 1F Y032-1F*	4031-1F	Y031-1F	Y030-1E
																75
	81400100	HANDHOLE -	EACH	30	4	10		6		5			5			
	81400200	HEAVY-DUTY HANDHOLE	EACH	3	1	4		3		2			3			
	81400300	DOUBLE HANDHOLE	EACH	6	1	2		1		1			1			
	-81603080	UNIT BUCT, 600V, 3 16 NO.2, 1/6 NO.4 GROUND, (XLP TYPE USE),	-F00T	- 27 ,721												-27,721-
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	4,839	537	939		500		696	64		484			1619
	82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	136												136
	83600400	POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT EACH	112												112
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3										2	1	
	85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	4	1			1		1	1					
	85700305	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1		1				1						
	86400100	TRANSCEIVER - FIBER OPTIC	EACH	5	1			1			1					
					1	1		1		1	1.1		710			
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,993	518	1,833		560		763			319			
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	8,560	712	3,125		1,089		1,805			1,829			
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	7,7288	1,000	2,596		1,047		1,509	339		797			
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	7.556	226	3,315		1,346		960			1,709			
	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	10,298	1,594	5,673		1,447		1,454			130			
,	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	6,58	62	82		86		268	158		2			
	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	: J.	1											
	87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	1						1						
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2	1					1						
	87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1	1											
	87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1										
	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1						1	-	<u>. </u>				
	87702820	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 18 FT.	EACH	1		1										
	87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	2				1		1						
	87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	2				1		1						
	87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1						-						
	87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	2	1	1										
	87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	3	*	2		1								
						2		1								
	87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	2	1					1						
	87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1									1			
	87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1				1								

* 100% OF THE COST WILL BE PAID FOR BY THE VILLAGE OF PALATINE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES - SHEET 2 OF 4

SCALE: NONE SHEET NO. OF SHEETS STA.

TO STA.

0008_S00.dgn

USER NAME = \$USER\$ DESIGNED REVISED DRAWN - AEG REVISED PLOT SCALE = \$SCALE\$ CHECKED REVISED REVISED

				Y OF QUA	NTITIES FAP	334					FAP	343	FAP 334	FAP :	343
		90%.FEL 10%.STAT	2					CONS	TRUCTION T	PE CODE			Y031-1F	Y031-1F	4030-1E
CODE ITEM DESCRIPTION	UNIT	TOTAL QUANTIT	Y (RA	US 12 ND RD.) @ _D HICKS	US 12 (RAND RD.) © IL 53/68 (DUNDEE RD.)	US (RAND WINSI	12 RD.) @ LOWE	US (RAND WILL	RD.) @	IL 5 (DUND @ BAL[53/68 EE RD.) OWIN LN.	IL 53/68 (DUNDEE RD.) @ KENNEDY	INTERCONNECT U.S. 12 (RAND RD.)	INTERCONNECT IL 53/68 (DUNDEE RD.)	1
87702970 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1	Y031	IF Y032-16	Y031 1F Y03Z-IE*	Y031 1F	Y032-IF*	Y031 1F	Y03Z-IF*	Y031 1F	Y03Z-IF*	Y031 1F Y032-74	*		
87703000 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH				1										
87704345 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT. AND 38 FT		1										1			
87704480 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 34 FT		1										1			
87800100 CONCRETE FOUNDATION, TYPE A	FOOT	35	12		3	4		8				8			
87800150 CONCRETE FOUNDATION, TYPE C	FOOT	20	4		4	4		4				4			
87800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30			30										
87800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	270	30		60	60		60				60			
87900200 DRILL EXISTING HANDHOLE	EACH	1	1												
88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	39	4		10	6		7		4		8			
88030050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	2					1				4			
88030070 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2						2							
88030080 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2						2							
88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	10	1			4		1		4					
88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST⊷ARM MOUNTED	EACH	20	1		6	4		1		4		4			
88030210 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1												
88030240 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2			2										
38102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10			4	2		4							
BB102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	9			1	2		2		4					
BB200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	61	5		16	10		10		8		12			
88500100 INDUCTIVE LOOP DETECTOR	EACH	53	- 6		14	8		7		12		6			
38600100 DETECTOR LOOP, TYPE I	FOOT	2,919	505		782	682		508				442			
88800100 PEDESTRIAN PUSH-BUTTON	EACH	21	- 303		7	4		6		4		112			
39000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	5	1		1	1		1				1			
39500200 RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3	3		1	1		1		-		1			
39500400 RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	3	3												
39502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1		1	1		1		1		1 /			
39502380 REMOVE EXISTING HANDHOLE	EACH	45	6		14	8		9		A		8			
39502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	39	7		8	9		7				8			
KO323574 MAINTENANCE OF LIGHTING SYSTEM.	CAL MO		-		J	, ,		1				<u> </u>			6
KO3223514 MAINTENANCE OF LIGHTING STSTEMS KO322256 TEMPORARY INFORMATION SIGNING	SQ FT												51.4	51.4	
X0322256 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,153											2,768	385	
AUGZZIZZ ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 IC	F001	3,133											2,100	303	
					·										
* 100% OF THE COST WILL BE PAID FOR BY THE VILLAGE OF PALATINE		l				L							JACOBS	ONE NOR CHICAGO 312-251-	RTH FRANKL
LE NAME = USER NAME = SUSERS DESIGNED - REVISED -				07475	OF HARRIO							F.A Rī	.P. SECTION	COUNTY	TOTAL SH SHEETS I
ØØC_SOO.dgn DRAWN - AEG REVISED - PLOT_SCALE = \$SCALE\$ CHECKED - REVISED -			DEP		OF ILLINOIS F TRANSPORTATIO	N		SUMM	IARY OF QU	ANTITIES -	SHEET 3 OF	F 4	2008-08-3I	соок	80 CT NO. 60F

		SL	MMARY	OF QUA	NTITIE	S FAP 33	54				FAP	343				
		90%.FED 10%.STATE	.						CONSTRUCTIO	I TYPE COD	*** *** *** *** *** *** *** *** *** **			FAP 334 4031-15	FAP 3 Y031-IF	43 4030-1E
CODE ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	US (RAND OLD	S 12 RD.) @ HICKS	(RANI IL (DUNI	IS 12 D RD.) @ 53/68 DEE RD.)	US (RAND WINSL	12 RD.) © LOWE	US 12 (RAND RD.) @ WILLIAMS	I (DL @ B	L 53/68 JNDEE RD.) ALDWIN LN.	IL 5 (DUNDE @ KEN	3/68 EE RD.) NNEDY	INTERCONNECT U.S. 12 (RAND RD.)	INTERCONNECT IL 53/68 (DUNDEE RD.)	1
X0324280 LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE, WITH SCADA AND VIDEO POWER	EACH	1	Y031 1F	Y032-1F*	Y031 1F	Y032-1F*	Y031 1F	Y032-1F*	Y031 1F Y032-6	* Y031	IF Y03Z-JF*	Y031 1F	Y032-/F*			1
X0324387 LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	136						-								136
X0324520 VIDEO SYSTEM DETECTION CAMERA, VIDEO SYSTEM DETECTION PROCESSOR	EACH	1		i A								1				
X0325035 PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FT	EACH	3						3								
X0325036 PAINT NEW COMBINATION MAST ARM AND POLE, OVER 40 FT	EACH	1						1								
X0325705 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2												1	1	
X0325737 TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5	1		1		1		1	1						
X0325825 PAVEMENT REPLACEMENT	SQ YD	60										60				
X0329863 INTERCEPT EXISTING CONDUIT	EACH	15	1		2					1				8	3	
X8050015 SERVICE INSTALLATION - POLE MOUNTED	EACH	6	1		1		1		1	1		ı				
X8620020 UNINTERRUPTIBLE POWER SUPPLY	EACH	6	1		1		1		1	1		 				
X8710020 FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	11,346												9,389	1,957	
X8730027 ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	3,081	392		1,302		452		521	38		376				
X8730250 ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1,731	157		420		296		539			319				
X8950100 RELOCATE EXISTING MASTER CONTROLLER	EACH	1			1											
XX002189 RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE	EACH	1										1				
XX004913 REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	11,346												9,389	1,957	
XXOO6937 GROUND ROD, 5/8" DIA, X 10FT.	EACH	21														2/
X0326269 PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2			2			,								
X0326404 MAST ARM, ALUMINUM, 15 FT.	EACH	24														24
X0326438 LIGHT POLE, ALUMINUM, 47.5 M.H., 12 FT. MAST ARM, INSTALL ONLY, FROM STATE STOCK	EACH	112														112
8/603203 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (EPR-TYPE RHW), 1 1/2" DIA.	FOOT	22,940	<u> </u>													22,940
POLYETHYLENE																
X0326403 MAST ARM, ALUMINUM, 12 FT. (FURNISH ONLY)	EACH	56														56
ZOOTGGOO TRAINEES	HOUR	500	500													
83050800 LIGHT POLE, ALUMINUM, 47.5 M.H., 12 FT. MAST ARM	EACH	1														/
B3800205 BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	112														112

ADDIVISION OF THE DATE OF THE WILLIAM OF THE DATE OF THE WILLIAM OF THE DATE O														ACODE	ONE NOR	TH FRANKLII
* 100% OF THE COST WILL BE PAID FOR BY THE VILLAGE OF PALATINE O YORO FILE NAME = USER NAME = SUSER\$ DESIGNED - REVISED -								1					Rev.	ACOBS	312-251-	
828D_SOG.dgn			men e -		OF ILLIN				SUMMARY OF	QUANTITIES	S - SHEET 4 (DF 4	F.A.P. RTE. 334	SECTION 2008-08-3I	СООК	TOTAL SHEI SHEETS NO 80 6
PLOT SCALE * *SCALE* CHECKED - REVISED - PLOT DATE * 1/27/2009 DATE - 1/22/2009 REVISED -			DEPA	KINENT O	r IKANS	PORTATION	V	SCALE: NON	NE SHEET NO. OF	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. ILLINOIS		CT NO. 60F8

CONTRACT NO. 60F87

F.A.P.	SECTION		COUNT	f .	TOTAL SHEETS	SHEET NO.
334	2008-08	-31	COO	(80	7
STA.	-	10	STA.			
TED. ROA	Ø DIST. NO.	DLLDNOIS	FEO.	AID	PROJECT	

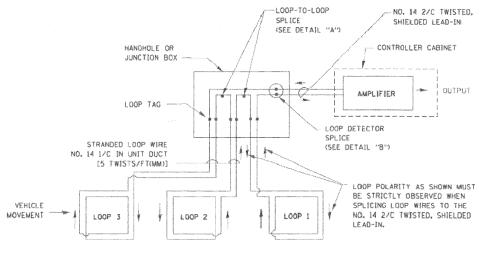
LOOP DETECTOR NOTES

- 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
- 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.
- 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 I SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

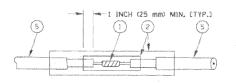


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION,
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

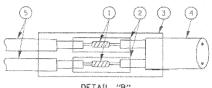


DETECTOR LOOP WIRING SCHEMATIC

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



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TO STA.

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.

REVISIONS D	NATE	ILLINOIS	DEPARTM	ENT OF	TRANS	PORTATION
ADD NOTE NO. 8)].	30/00 /12/01 01-02	STAN	DISTI DARD DESIG		IC S	
		M.E: NONE		· · · · · · · · · · · · · · · · · · ·	DA.	AWN BY: RWP SIGNED BY: DAO ECKED BY: DAZ
				·	SHE TS	<u>ET 1 OF 4</u> 05

DATE SCALE

DESIGNED REVISED DRAWN REVISED PLOT SCALE = \$SCALE\$ CHECKED REVISED

STATE OF ILLINOIS

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 1 OF 4

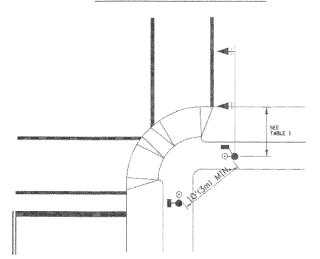
SHEET NO. OF SHEETS STA.

SECTION 2008-08-31 CONTRACT NO. 60F87

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DEPARTMENT OF TRANSPORTATION

PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCO (SEE NOTE 1). TO MEET MUTCO REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

334 2

NOTES:

 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 SIDNAL 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 EMBBLES 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 MUTCO FIGURE 4E-2),
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 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 BRING USED.
- 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 BOITOM 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)

TABLE I

TRAFFIC SIGNAL EQUIPMENT COMBINATION CONCRETE CURB AND GUTTER (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 PUSHBUTION SEE NOTE 1 SEE NOTE 1

SCALE:

REVISIONS
NAME DATE
BUREAU OF TRAFFIC 1/01/02

TO STA.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

DRAWN BY, RW DESIGNED BY: CHECKED BY: I SHEET 2 OF 4

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PLOT DATE = 1/27/2009	DATE - 1/22/2009	REVISED -	

SEE TABLE !

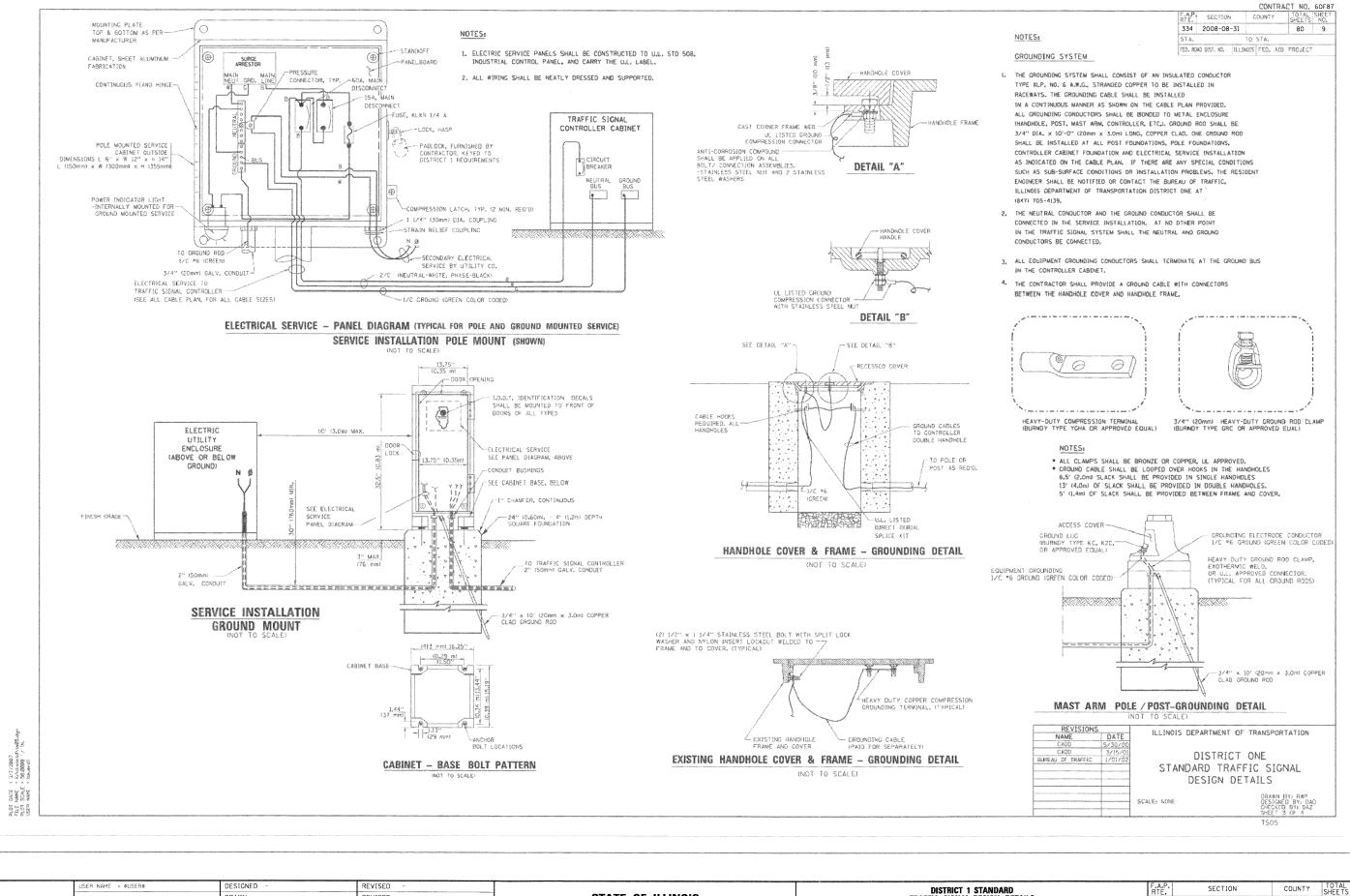
SEE TABLE 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 2 OF 4

SHEET NO. OF SHEETS STA.

F.A.P. SECTION COUNTY TOTAL SHEETS NO. 334 2008-08-31 COOK 80 8 CONTRACT NO. 60F87 FED. ROAD DIST. NO. | ILLLINOIS | FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

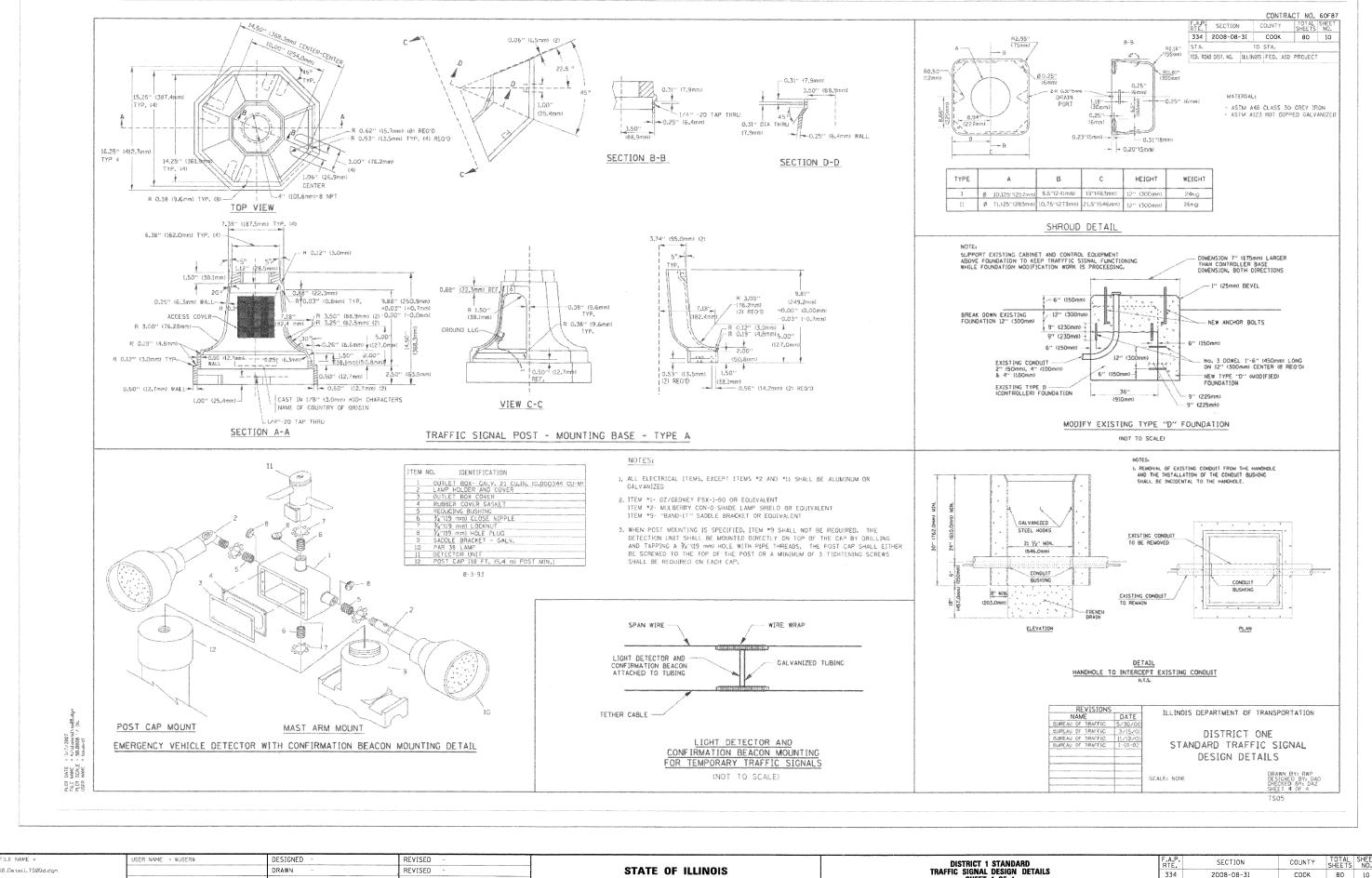
SCALE:

TRAFFIC SIGNAL DESIGN DETAILS
SHEET 3 OF 4

SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. SECTION COUNTY SHEETS NO. SECTION COUNTY SHEET NO. CONTRACT NO. 60F87

F.A.P. RTE. SECTION COUNTY SHEETS NO. COUNTY SHEETS NO. SHEETS NO. GOODS NO



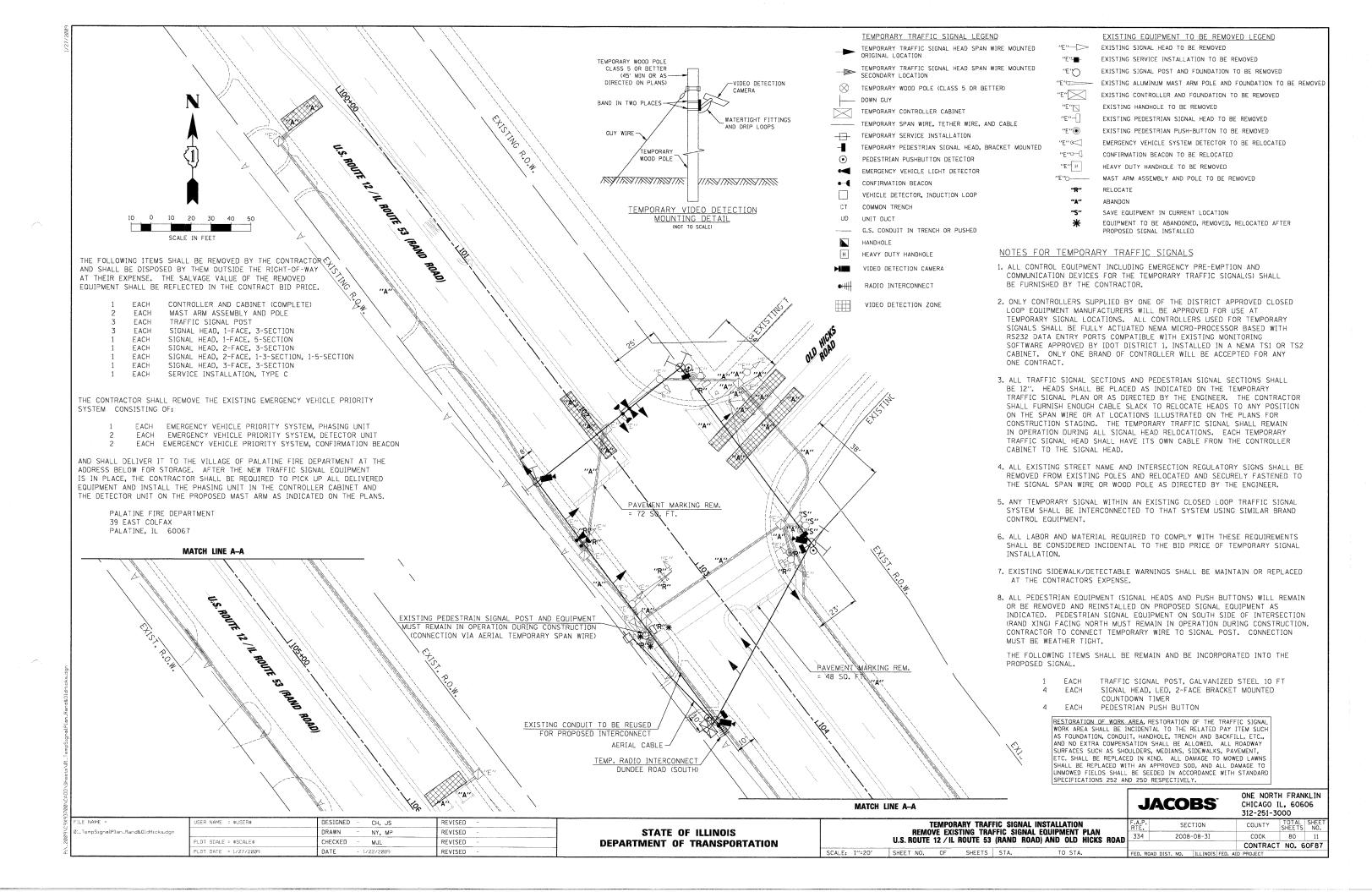
PLOT SCALE = \$SCALE\$ CHECKED REVISED PLOT DATE = 1/27/2009 DATE REVISED

DEPARTMENT OF TRANSPORTATION

SCALE:

TRAFFIC SIGNAL DESIGN DETAILS SHEET 4 OF 4 TO STA. SHEET NO. OF SHEETS STA.

COOK 80 2008-08-31 CONTRACT NO. 60F87 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT





DUAL ENTRY PHASE

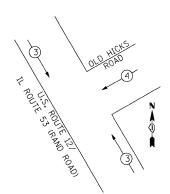
→ # SINGLE ENTRY PHASE

OVERLAP

→ PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

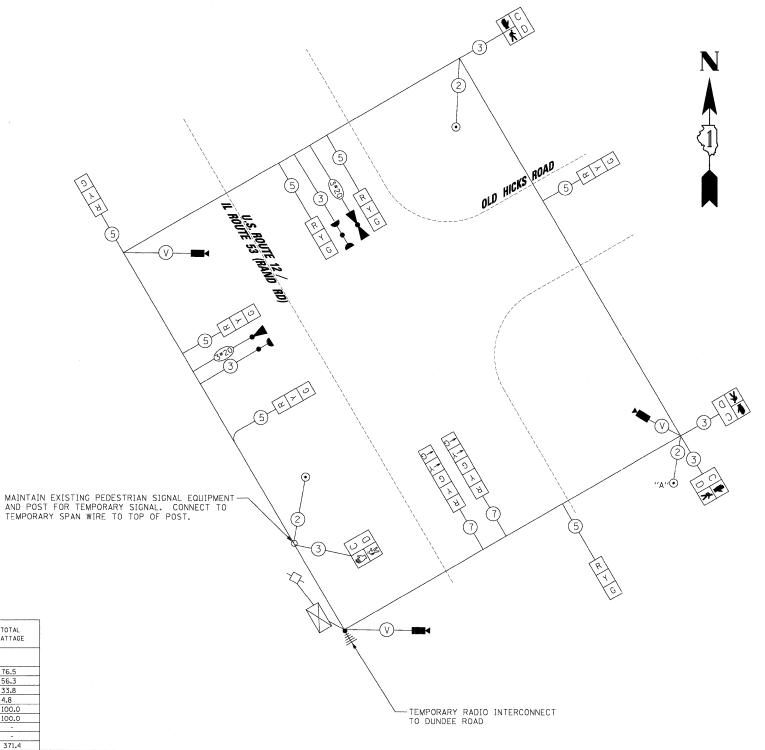
TEMPORARY PHASE DESIGNATION DIAGRAM EMERGENCY VEHICLE PREEMPTION SEQUENCE



PR0P0S	ED EMERGE	NCY						
VEHICLE PREEMPTORS								
EMERGENCY VEHICLE	3	4						
PREEMPTOR								
MOVEMENT	1/1	/						

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

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



TYPE	NO. OF LAMPS	× WATTAGE	x % OPERATION	
		INCAND. LED		
SIGNAL (RED)	9	17	0.50	76.5
(YELLOW)	9	25	0.25	56.3
(GREEN)	9	15	0.25	33.8
ARROW	4	12	0.10	4.8
PED. SIGNAL	4	25	1.0	100.0
CONTROLLER	1	100	1.0	100.0
ILLUM. SIGN	-	25	1.0	-
FLASHER	-		-	-
			TOTAL =	371.4

TRAFFIC SIGNAL INSTALLATION

ELECTRICAL SERVICE REQUIREMENTS

ENERGY COST TO : ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS / DISTRICT 1 201 WEST CENTER COURT / SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MICKI MULERO-WILLIAMS
PHONE: (630) 691-4721 COMPANY: COMED

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
C - CONTROLLER W/UPS	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2 =
D - CONTROLLER	4	SIGNAL POST	2	BRACKET MOUNTED	13
E - MAST ARM POLE		CONTROLLER CAB.	1	PED. PUSHBUTTON	6
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
36"	15	ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
42"	25	GROUND CABLE	1	POST MOUNTED	6
	TYPE A - POST C - CONTROLLER W/UPS D - CONTROLLER E - MAST ARM POLE 30" 36"	TYPE A - POST 4 C - CONTROLLER W/UPS 4 D - CONTROLLER 4 E - MAST ARM POLE 30" 15 36" 15	TYPE A - POST 4	TYPE A - POST	TYPE A - POST

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 8.

DESIGNED REVISED CH. RP STATE OF ILLINOIS 02_TempCablePlan_Rand&OldHicks.dgn DRAWN REVISED PLOT SCALE = \$SCALE\$ CHECKED MJL REVISED REVISED

TEMPORARY CABLE PLAN TEMPORARY PHASE DESIGNATION DIAGRAM
U.S. ROUTE 12 / IL ROUTE 53 (RAND ROAD) AND OLD HICKS ROAD

TEMPORARY CABLE DIAGRAM LEGEND

R	TEMPORARY TRAFFIC SIGNAL SECTION
₽ C	12" PEDESTRIAN SIGNAL SECTION C/D INDICATES COUNTDOWN SIGNAL HEAD

 \bowtie TEMPORARY CONTROLLER CABINET

 \neg TEMPORARY SERVICE INSTALLATION

VEHICLE DETECTOR, INDUCTION LOOP

VEHICLE DETECTION CAMERA

EMERGENCY VEHICLE LIGHT DETECTOR

CONFIRMATION BEACON

PEDESTRIAN PUSHBUTTON

DENOTES NUMBER OF CONDUCTORS IN CABLE. ALL CABLE NO. 14 AWG. WIRE UNLESS OTHERWISE NOTED.

(V)VENDOR CABLE

RADIO INTERCONNECT

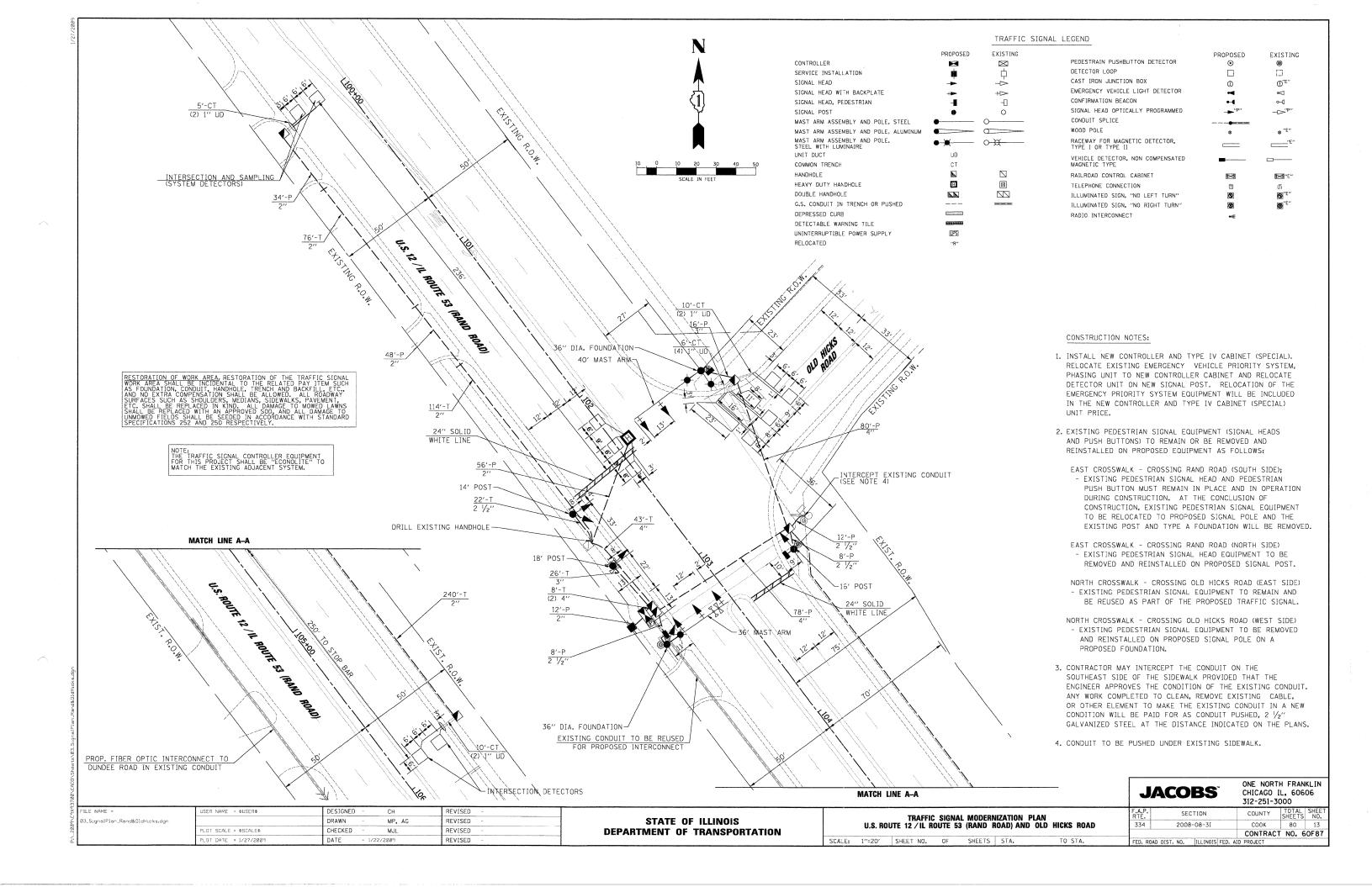
ONE NORTH FRANKLIN **JACOBS** CHICAGO IL, 60606 312-251-3000 TOTAL SHEE SHEETS NO. COOK 80 1 CONTRACT NO. 60F87

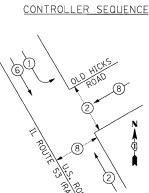
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WATTAGE

DEPARTMENT OF TRANSPORTATION

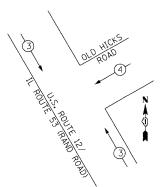
SCALE: N.T.S. SHEET NO. OF SHEETS STA.





- LEGEND
- DUAL ENTRY PHASE
- **■** # SINGLE ENTRY PHASE
- → # PEDESTRIAN PHASE
 - NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	1/1	~				

ELE	WATTAGE				
TYPE	NO. OF LAMPS	× W.		× % OPERATION	
SIGNAL (RED)	10		17	0.50	85.0
(YELLOW)	10		25	0.25	62.5
(GREEN)	10		15	0.25	37.5
ARROW	4		12	0.10	4.8
PED. SIGNAL	4		25	1.0	100.0
CONTROLLER	1		100	1.0	100.0
ILLUM. SIGN	-		25	1.0	-
FLASHER	-			-	=
				TOTAL ≃	389.8

SER NAME - SUSERS

PLOT SCALE = \$SCALES

PLOT DATE = 1/27/2009

I.D.O.T.

ENERGY COST TO : ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS / DISTRICT 1 201 WEST CENTER COURT / SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MICKI MULERO-WILLIAMS PHONE: (630) 691-4721

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DESIGNED) -	CH, RP	 REVISED	w		Т	
DRAWN		NY	REVISED	~			
CHECKED		MJL	REVISED	-			
DATE	- 1	/22/2009	REVISED	-			

C - CONTROLLER W/UPS 4 DOUBLE HANDHOLE

FOUNDATION (DEPTH)

D - CONTROLLER

E - MAST ARM POLE

TYPE A - POST

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT

FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

(FT.) CABLE SLACK

4 SIGNAL POST

CONTROLLER CAB.

FIBER OPTIC

15 ELECTRIC SERVICE

25 GROUND CABLE

4 HANDHOLE

(FT.) VERTICAL

6.5 ALL FOUNDATIONS

13 MAST ARM (L) POLE

2 BRACKET MOUNTED

1 SERVICE TO GROUND

1 POST MOUNTED

ELECTRIC SERVIC

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

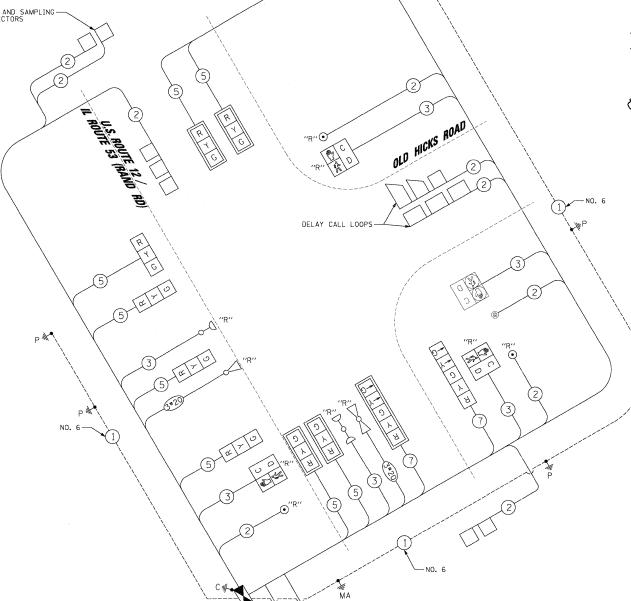
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SUMMARY OF QUANTITIES U.S. ROUTE 12 / IL 53 (RAND ROAD) AND OLD HICKS ROAD SCALE: N.T.S. SHEET NO. OF SHEETS STA.

SCHEDULE OF I

ITEM

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
DETECTABLE WARNINGS
COMBINATION CURB AND GUTTER REMOVAL
SIDEWALK REMOVAL
CONCRETE CURB, TYPE B
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
SIGN PANEL - TYPE 1
SIGN PANEL - TYPE 2
THERMOPLASTIC PAVEMENT MARKING REMOVAL
CONDUIT IN TRENCH, 2" DIA., CALVANIZED STEEL
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
CONDUIT PUSHED, 4" DIA., GALVANIZED
HEAVY-DUTY HANDHOLE
DOUBLE HANDHOLE
HEAVY-DUTY HANDHOLE
DOUBLE HANDHOLE
TRENCH AND BACKFILL FOR ELECTRICAL WORK
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
TRANSCEIVER - FIBER OPTIC
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 1 FA
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
STEEL COMBINATION TYPE C
CONCRETE FOUNDATION, TYPE C
CONCRETE FOUNDATION, TYPE C
CONCRETE FOUNDATION, TYPE A
CONCRETE FOUNDATION, TYPE IT
TEMPOR 518 712 1,000 226 1,594 62 ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED ONE NORTH FRANKLIN **JACOBS** CHICAGO IL. 60606 312-251-3000

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 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. INTERSECTION AND SAMPLING — (SYSTEM) DETECTORS



3.5 13 13.5

PROPOSED INTERCONNECT TO DUNDEE RD

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE

TRACER CABLE

CABLE PLAN LEGEND

8" TRAFFIC SIGNAL SECTION

12" TRAFFIC SIGNAL SECTION

CONTROLLER CABINET

SERVICE INSTALLATION

CONFIRMATION BEACON

PEDESTRIAN PUSHBUTTON

NO. 14 1/C TRACER CABLE FIBER OPTIC CABLE IN CONDUIT

NO. 62.5/125 MM-12F SM-12F

SIGNAL FACE WITH BACKPLATE

ILLUMINATED SIGN, FIBER OPTIC

ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"

HANDHOLE(H), OR CONTROLLER(C)

UNINTERRUPTIBLE POWER SUPPLY

SCHEDULE OF QUANTITIES

GROUND ROD AT HANDHOLE (H), DOUBLE

GROUND ROD AT ELECTRICAL SERVICE

GROUND ROD AT POST (P) OR MAST ARM POLE (MA)

TELEPHONE CONNECTION

"NO LEFT TURN"

RELOCATED

"P" INDICATES PROGRAMMED HEAD

12" PEDESTRIAN SIGNAL SECTION

VEHICLE DETECTOR, INDUCTION LOOP

EMERGENCY VEHICLE LIGHT DETECTOR

DENOTES NUMBER OF CONDUCTORS.

ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.

C/D INDICATES COUNTDOWN SIGNAL HEAD

EXISTING

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PROPOSED

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UPS

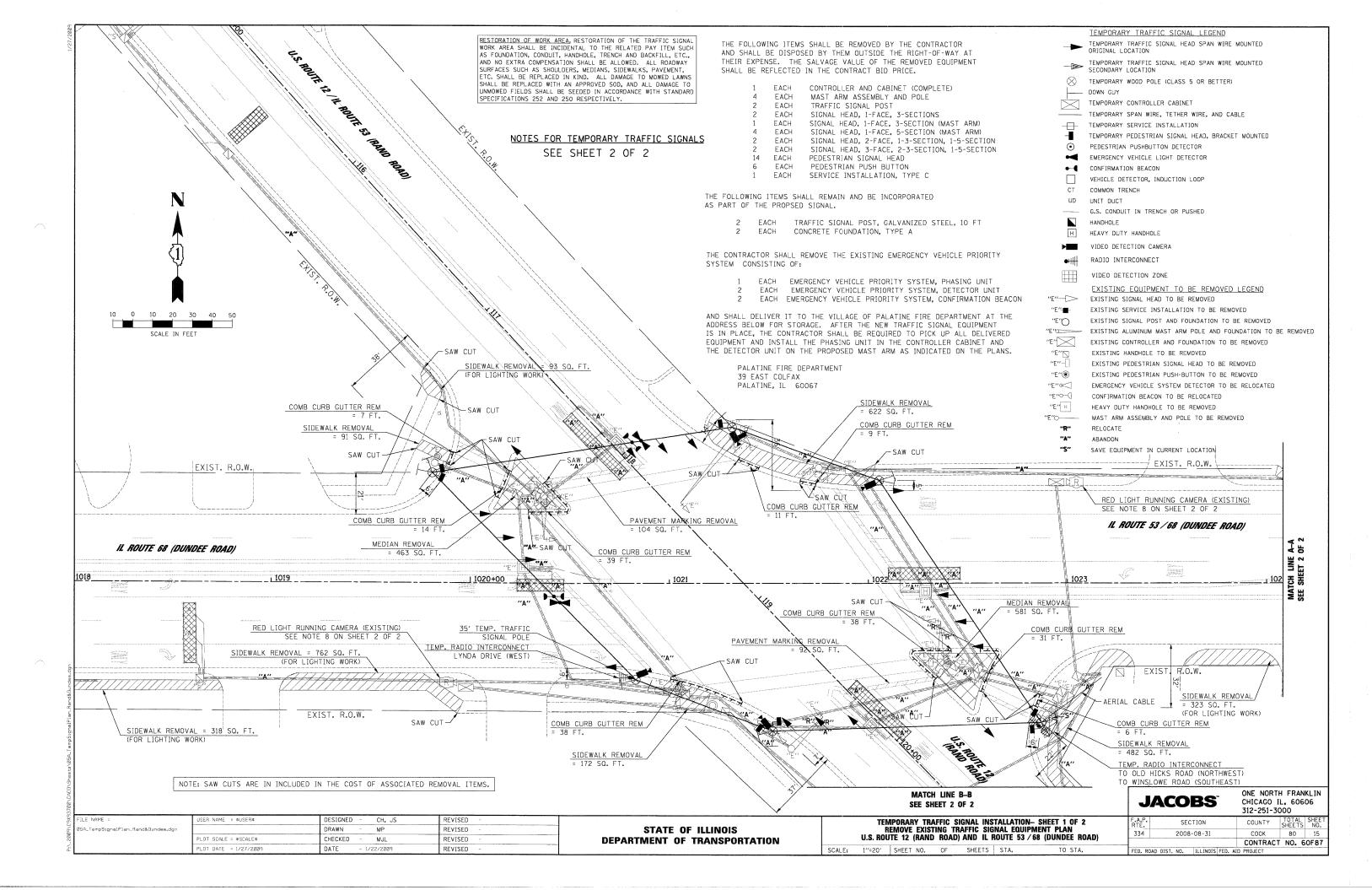
"R"

ITEM

COUNTY TOTAL SHE SECTION 2008-08-31 COOK 80 CONTRACT NO. 60F87

COMPANY: COMED

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



LYNDA DRIVE

1010+00

10 20 30 40 SCALE IN FEET

EXISTING EQUIPMENT TO BE REMOVED LEGEND EXISTING SIGNAL HEAD TO BE REMOVED EXISTING SERVICE INSTALLATION TO BE REMOVED "E"() EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED EXISTING HANDHOLE TO BE REMOVED "E"-EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED EXISTING PEDESTRIAN PUSH-BUTTON TO BE REMOVED EMERGENCY VEHICLE SYSTEM DETECTOR TO BE RELOCATED CONFIRMATION BEACON TO BE RELOCATED HEAVY DUTY HANDHOLE TO BE REMOVED "E"0-MAST ARM ASSEMBLY AND POLE TO BE REMOVED "R" "A" "S" SAVE EQUIPMENT IN CURRENT LOCATION

MATCH LINE B-B SEE SHEET 1 OF 2 ₽₽ 1024 동풍 MAI 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 KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO

(FOR LIGHTING WORK 1025+00 IL ROUTE 5368 (DUNDEE ROAD) EXIST. R.O.W SIDEWALK REMOVAL = 376 SQ. FT. (FOR LIGHTING WORK)

SIDEWALK REMOVAL

1.183 SQ. FT.

TEMPORARY TRAFFIC SIGNAL INSTALLATION - SHEET 2 OF 2 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN U.S. ROUTE 12 (RAND ROAD) AND IL ROUTE 53 / 68 (DUNDEE ROAD) SCALE: 1"=20' SHEET NO. OF SHEETS STA.

SPECIFICATIONS 252 AND 250 RESPECTIVELY.

UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD

TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY WOOD POLE (CLASS 5 OR BETTER)

TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE

TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED

SECONDARY LOCATION

CONFIRMATION BEACON

HEAVY DUTY HANDHOLE VIDEO DETECTION CAMERA

RADIO INTERCONNECT

VIDEO DETECTION ZONE

COMMON TRENCH

 \Box

0

Н

TEMPORARY CONTROLLER CABINET

TEMPORARY SERVICE INSTALLATION

PEDESTRIAN PUSHBUTTON DETECTOR

EMERGENCY VEHICLE LIGHT DETECTOR

VEHICLE DETECTOR, INDUCTION LOOP

G.S. CONDUIT IN TRENCH OR PUSHED

TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED

TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED

JACOBS CHICAGO IL. 60606 312-251-3000 TOTAL SHEE SHEETS NO. 80 16 COUNTY соок 2008-08-3 CONTRACT NO. 60F87 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

ONE NORTH FRANKLIN

TEMPORARY INTERCONNECT DETAIL LYNDA DRIVE RADIO INTERCONNECT

IL ROUTE 68 (DUNDEE ROAD)

TEMP. RADIO INTERCONNECT

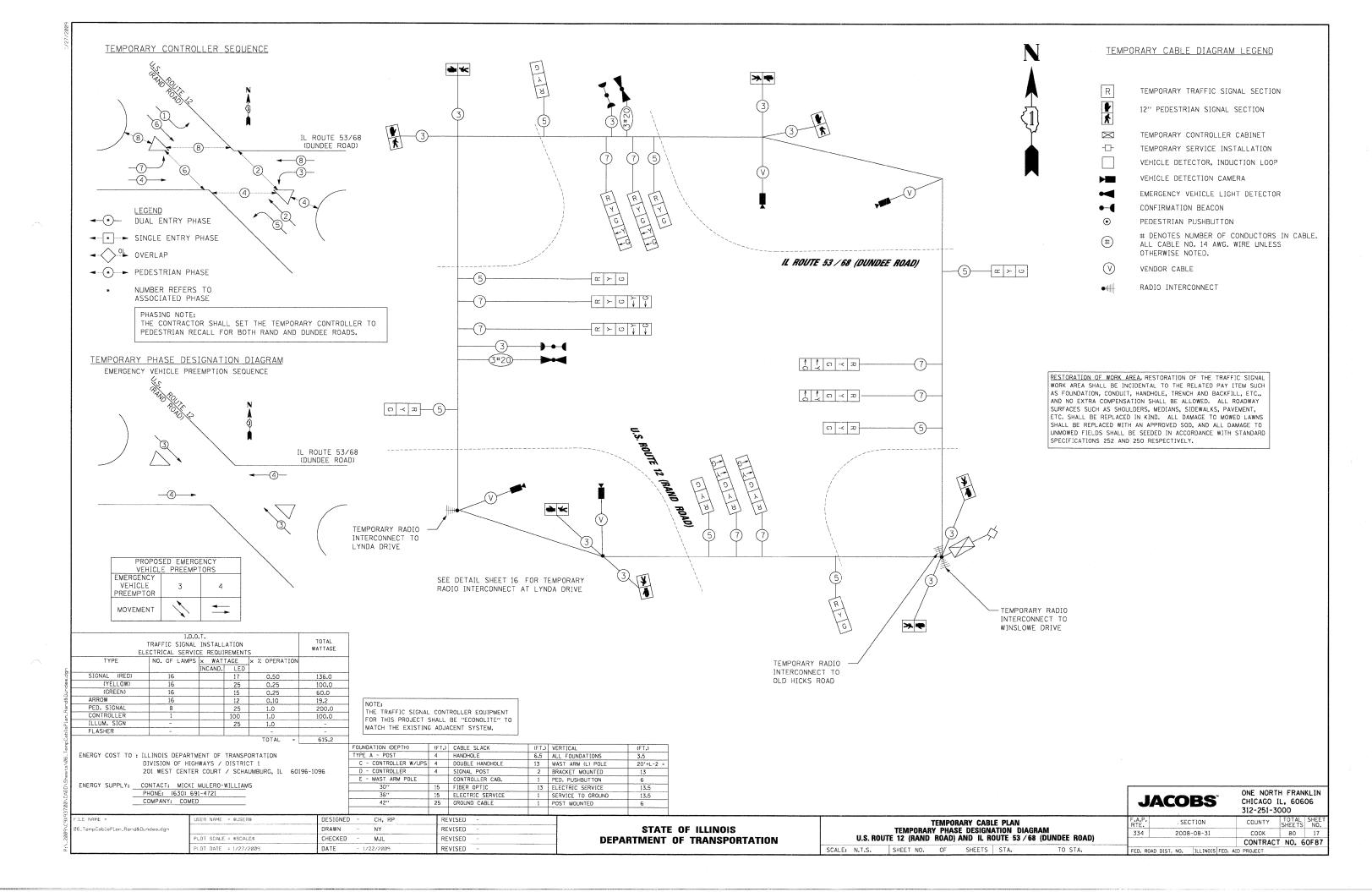
RAND ROAD (EAST)

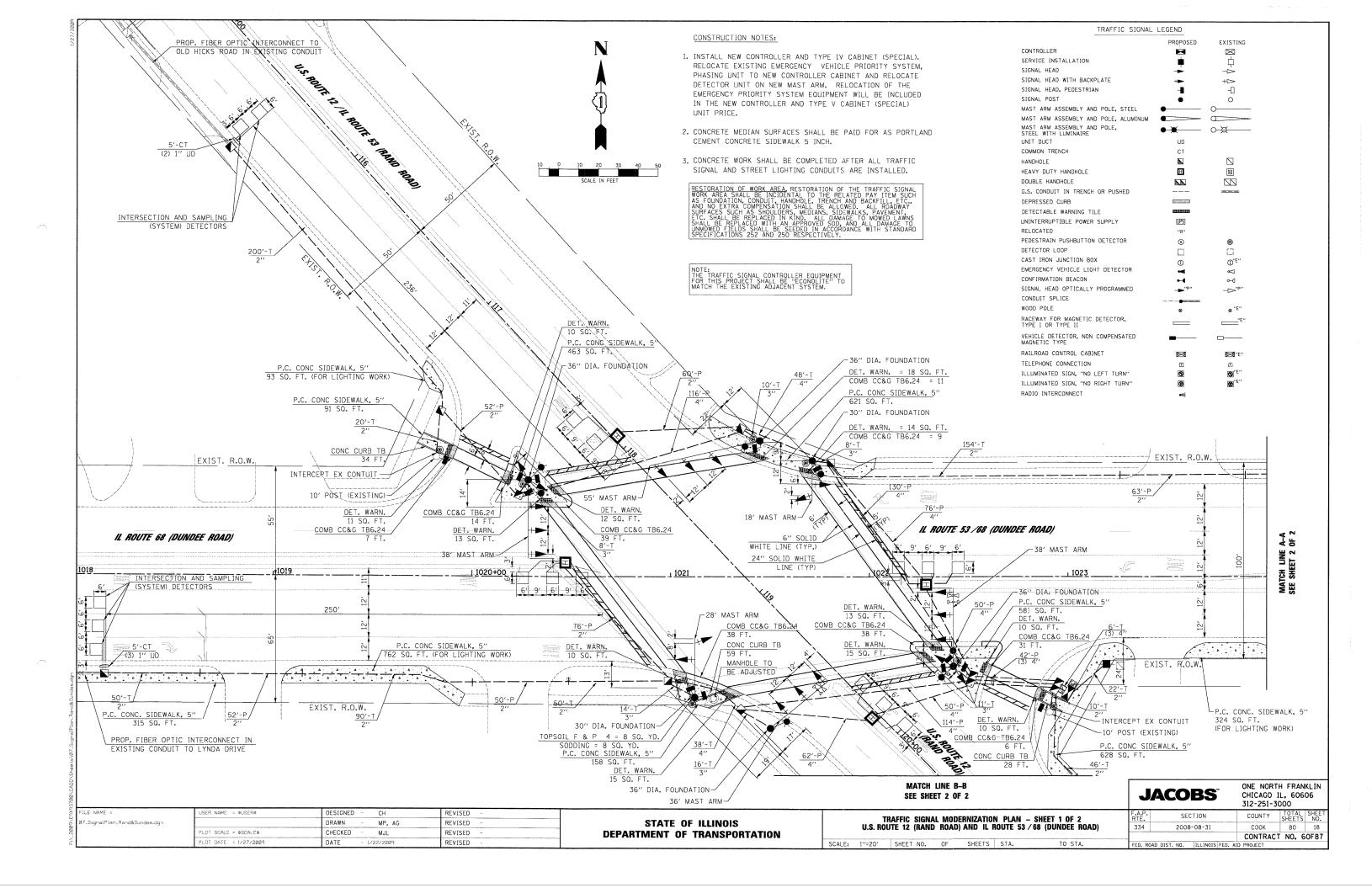
SCOTT HEMMINGS RED SPEED DIRECT - (630)-317-5740 CELL (630)-234-9789

DESIGNED CH, JS REVISED B_TempSignalPlan_Rand&Dundee_2.dgr DRAWN REVISED LOT SCALE = \$SCALE\$ CHECKED MJL REVISED DATE REVISED

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION



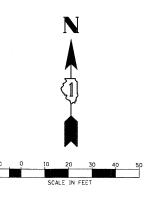


CONSTRUCTION NOTES:

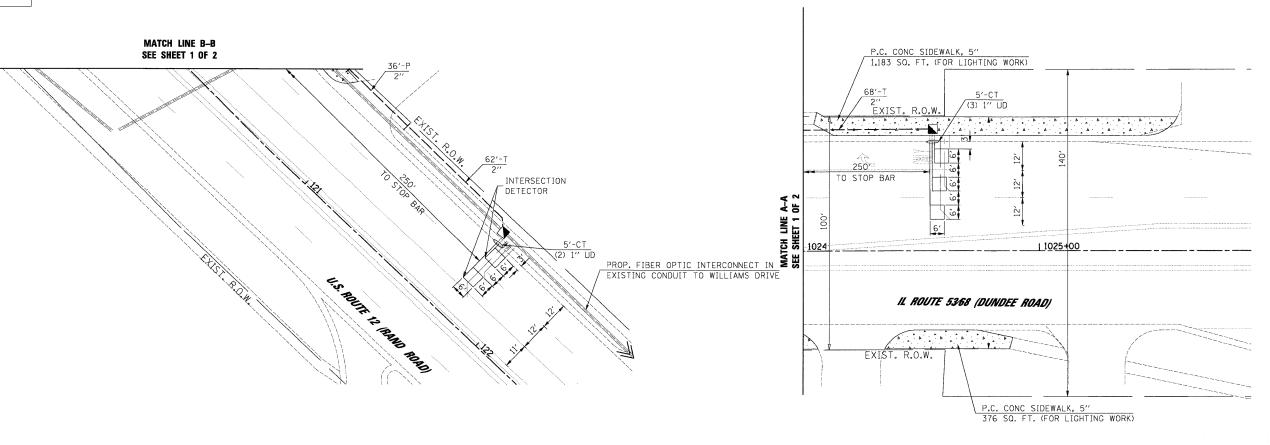
- 1. INSTALL NEW CONTROLLER AND TYPE IV CABINET (SPECIAL).
 RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM,
 PHASING UNIT TO NEW CONTROLLER CABINET AND RELOCATE
 DETECTOR UNIT ON NEW MAST ARM. RELOCATION OF THE
 EMERGENCY PRIORITY SYSTEM EQUIPMENT WILL BE INCLUDED
 IN THE NEW CONTROLLER AND TYPE IV CABINET (SPECIAL)
 UNIT PRICE.
- 2. CONCRETE MEDIAN SURFACES SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH.
- 3. CONCRETE WORK SHALL BE COMPLETED AFTER ALL TRAFFIC SIGNAL AND STREET LIGHTING CONDUITS ARE INSTALLED.



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



		TRAFFIC S	SIGNAL LEGEND		
	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER		\bowtie	PEDESTRAIN PUSHBUTTON DETECTOR	•	©
SERVICE INSTALLATION	•	中	DETECTOR LOOP		
SIGNAL HEAD		\rightarrow	CAST IRON JUNCTION BOX	(I)	①"E"
SIGNAL HEAD WITH BACKPLATE	+	+₽>	EMERGENCY VEHICLE LIGHT DETECTOR	×	≪
SIGNAL HEAD, PEDESTRIAN	-11	-0	CONFIRMATION BEACON	•-1	0 —0
SIGNAL POST	•	0	SIGNAL HEAD OPTICALLY PROGRAMMED	- p "p"	→>"P"
MAST ARM ASSEMBLY AND POLE, STEEL	•	0	CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		0	WOOD POLE	8	⊗ "E"
MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	•*	0 ¤	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
UNIT DUCT	UD		VEHICLE DETECTOR, NON COMPENSATED		_
COMMON TRENCH	СТ		MAGNETIC TYPE		
HANDHOLE			RAILROAD CONTROL CABINET	₽ <	№ 8″E″
HEAVY DUTY HANDHOLE	H	H	TELEPHONE CONNECTION	m	ហា
DOUBLE HANDHOLE			ILLUMINATED SIGN, "NO LEFT TURN"	6	© "E"
G.S. CONDUIT IN TRENCH OR PUSHED			ILLUMINATED SIGN, "NO RIGHT TURN"	®	® ′′E′′
DEPRESSED CURB	B252427434		RADIO INTERCONNECT		_
DETECTABLE WARNING TILE				- "	
UNINTERRUPTIBLE POWER SUPPLY	UPS				
RELOCATED	"R"		i		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

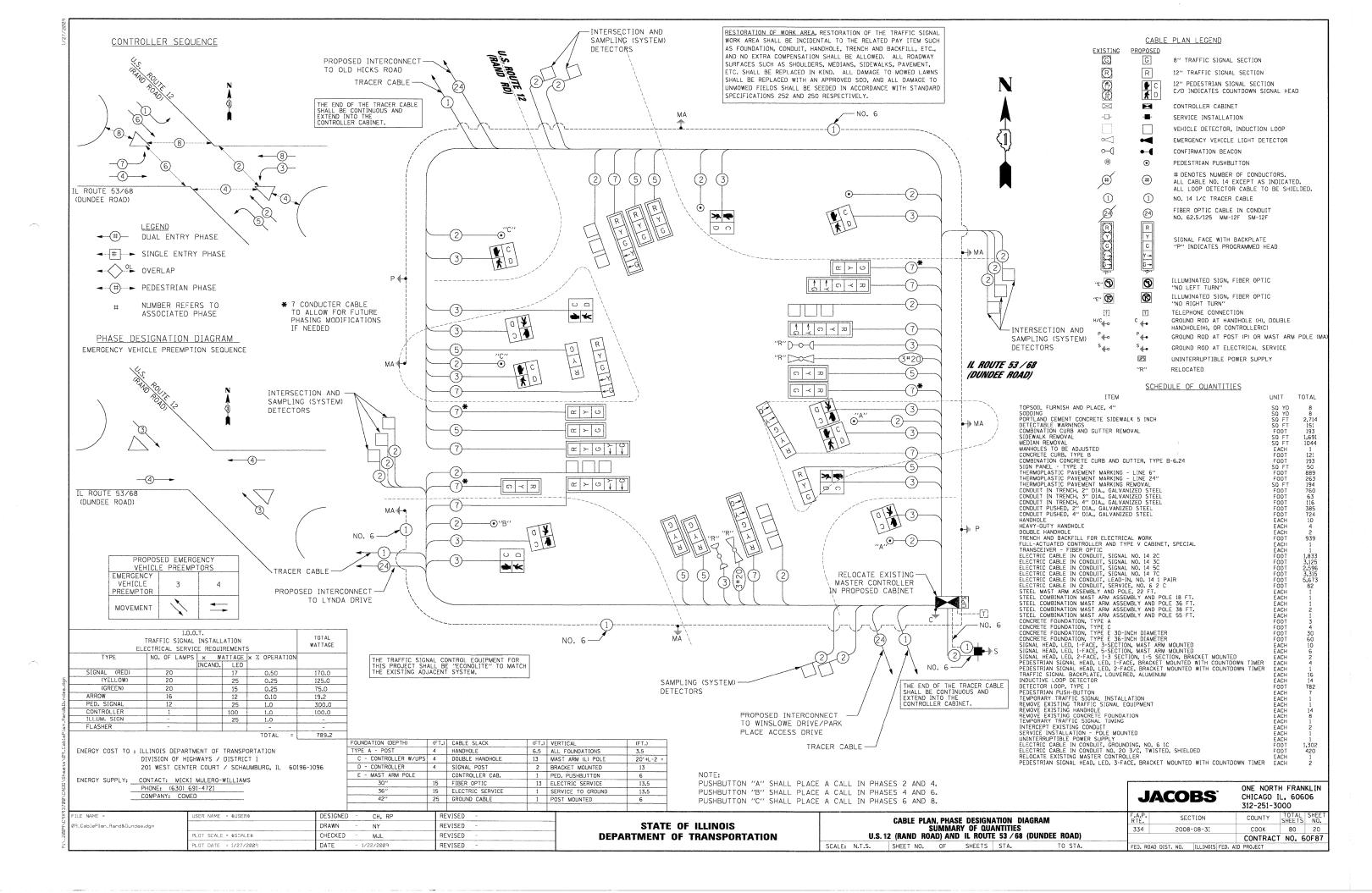
TRAFFIC SIGNAL MODERNIZATION PLAN - SHEET 2 OF 2
U.S. ROUTE 12 (RAND ROAD) AND IL ROUTE 53 / 68 (DUNDEE ROAD)

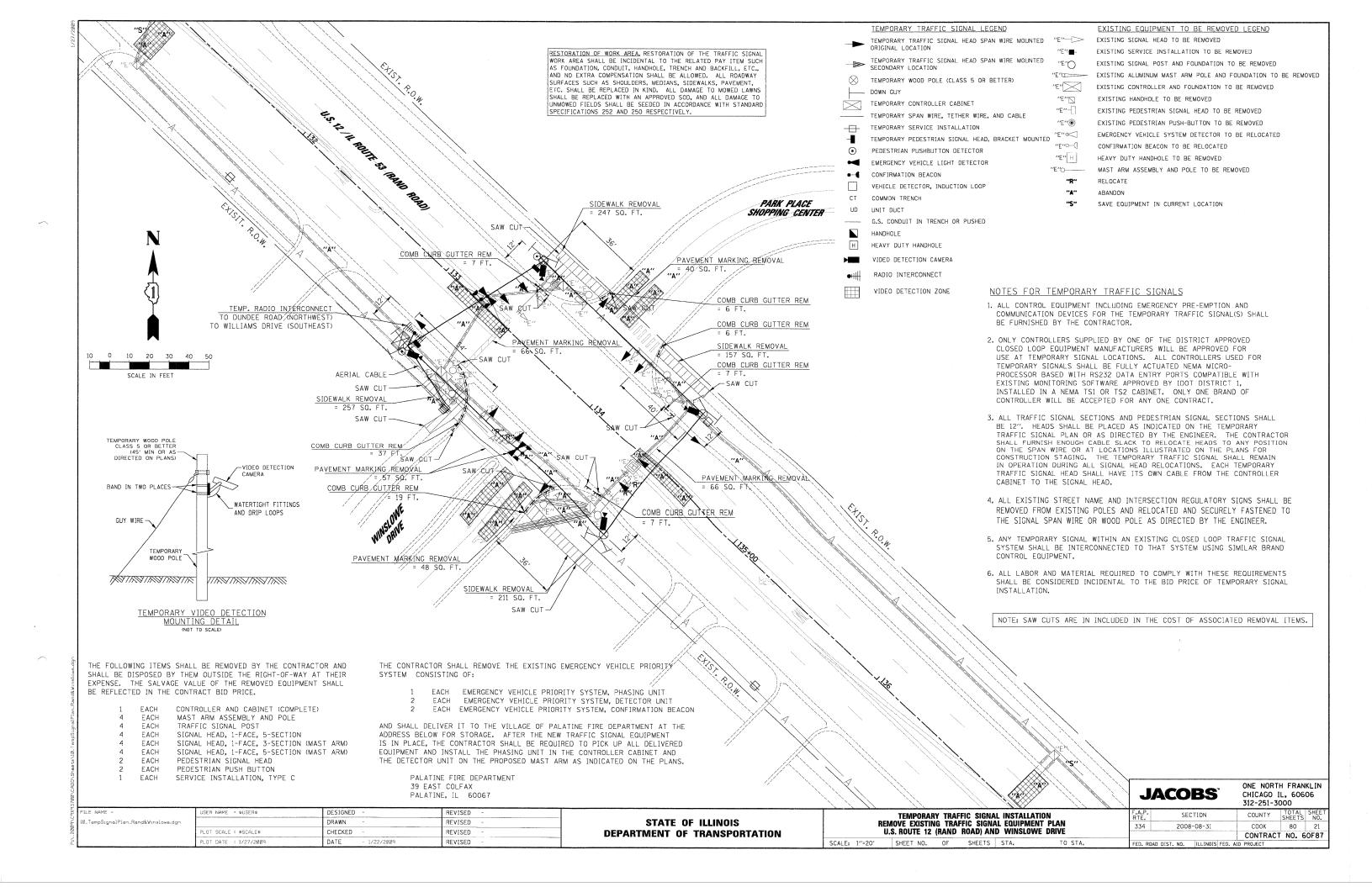
E: 1"=20" SHEET NO. OF SHEETS STA. TO STA.

| CONTRACT NO. | | ILLINOIS| FED. AID PROJECT | CHICAGO II. 60606 | S12-251-3000 | SHEET SHOOTH | SHEETS NO. 334 | 2008-08-31 | COOK | 80 | 19 | CONTRACT NO. 60F87 | SHEETS NO. 19 | CONTRACT NO. 60F87 | CON

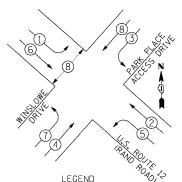
ONE NORTH FRANKLIN

3\C9X937@@\CADD\Sheets\@8_SignalPlan_Rand&D





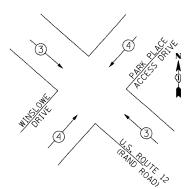
TEMPORARY CONTROLLER SEQUENCE



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

TEMPORARY PHASE DESIGNATION DIAGRAM

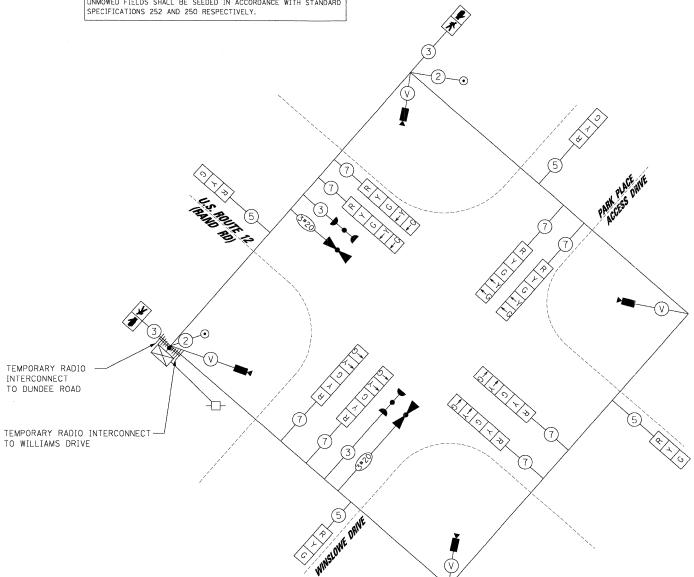
EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4					
MOVEMENT	1	41					

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

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



El	TOTAL WATTAGE				
TYPE	NO. OF LAMPS	× WAT	TAGE	× % OPERATION	
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102.0
(YELLOW)	12		25	0.25	75.0
(GREEN)	12		15	0.25	45.0
ARROW	16		12	0.10	19.2
PED. SIGNAL	2		25	1.0	50.0
CONTROLLER	1		100	1.0	100.0
ILLUM. SIGN	-		25	1.0	-
FLASHER	-			-	-
				TOTAL -	301.2

ENERGY COST TO : ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS / DISTRICT 1 201 WEST CENTER COURT / SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MICKI MULERO-WILLIAMS PHONE: (630) 691-4721 COMPANY: COMED

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
C - CONTROLLER W/UPS	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2 =
D - CONTROLLER	4	SIGNAL POST	2	BRACKET MOUNTED	13
E - MAST ARM POLE		CONTROLLER CAB.	1	PED. PUSHBUTTON	6
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
36"	15	ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
42"	25	GROUND CABLE	1	POST MOUNTED	6

SER NAME = \$LISER\$ DESIGNED CH. RE REVISED TempCablePlan_Rand&Winslowe.dgn DRAWN NY REVISED PLOT SCALE = \$SCALE\$ CHECKED MJL REVISED LOT DATE = 1/27/2009 DATE 1/22/2009 REVISED

TEMPORARY RADIO INTERCONNECT TO DUNDEE ROAD

TO WILLIAMS DRIVE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TEMPORARY CABLE PLAN TEMPORARY PHASE DESIGNATION DIAGRAM U.S. 12 ROUTE (RAND ROAD) AND WINSLOWE DRIVE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

TEMPORARY CABLE DIAGRAM LEGEND

TEMPORARY TRAFFIC SIGNAL SECTION 12" PEDESTRIAN SIGNAL SECTION C/D INDICATES COUNTDOWN SIGNAL HEAD

 \bowtie TEMPORARY CONTROLLER CABINET

---TEMPORARY SERVICE INSTALLATION

VEHICLE DETECTOR, INDUCTION LOOP VEHICLE DETECTION CAMERA

EMERGENCY VEHICLE LIGHT DETECTOR

CONFIRMATION BEACON

 \odot PEDESTRIAN PUSHBUTTON

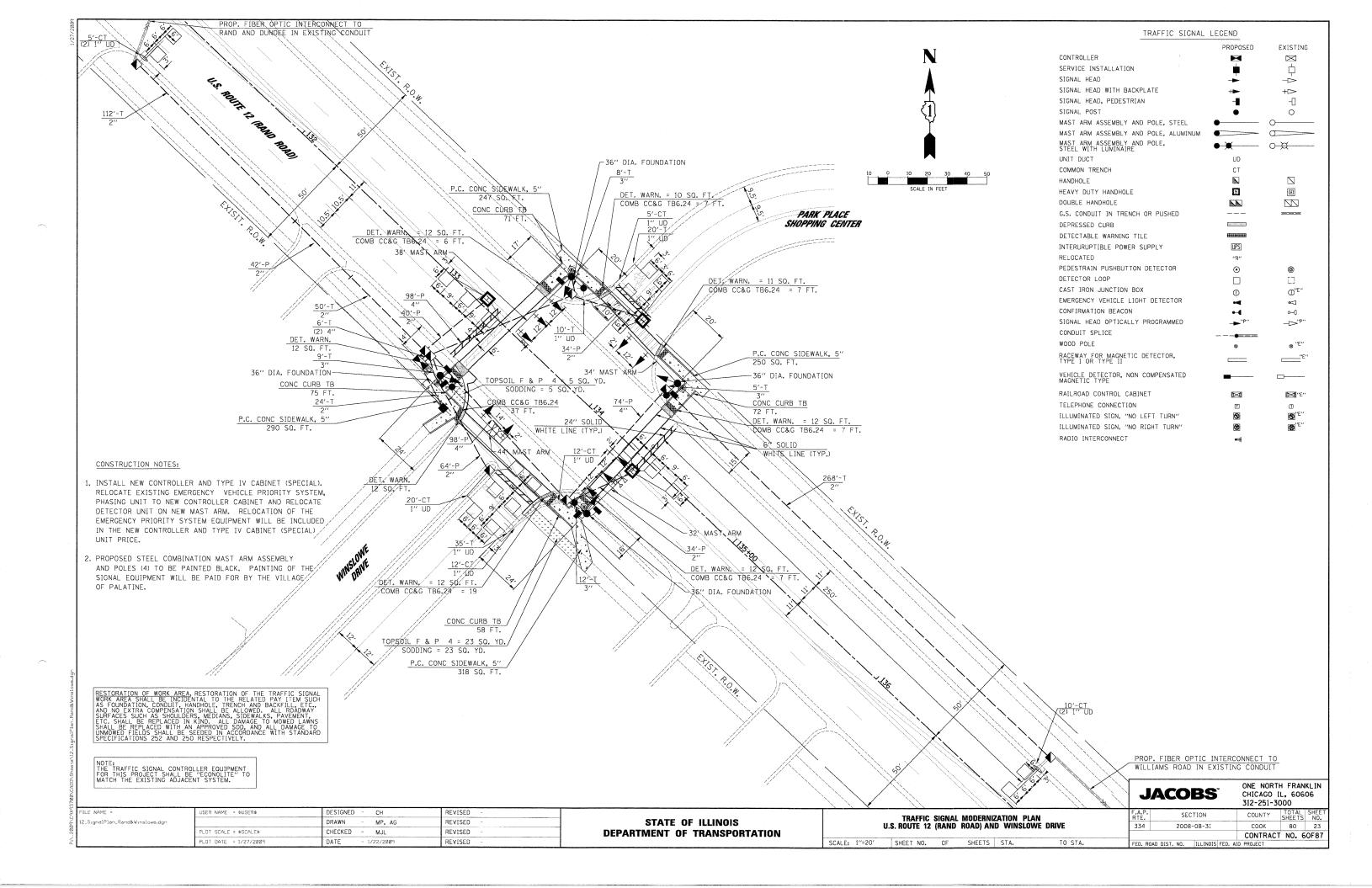
DENOTES NUMBER OF CONDUCTORS IN CABLE. (#) ALL CABLE NO. 14 AWG. WIRE UNLESS OTHERWISE NOTED.

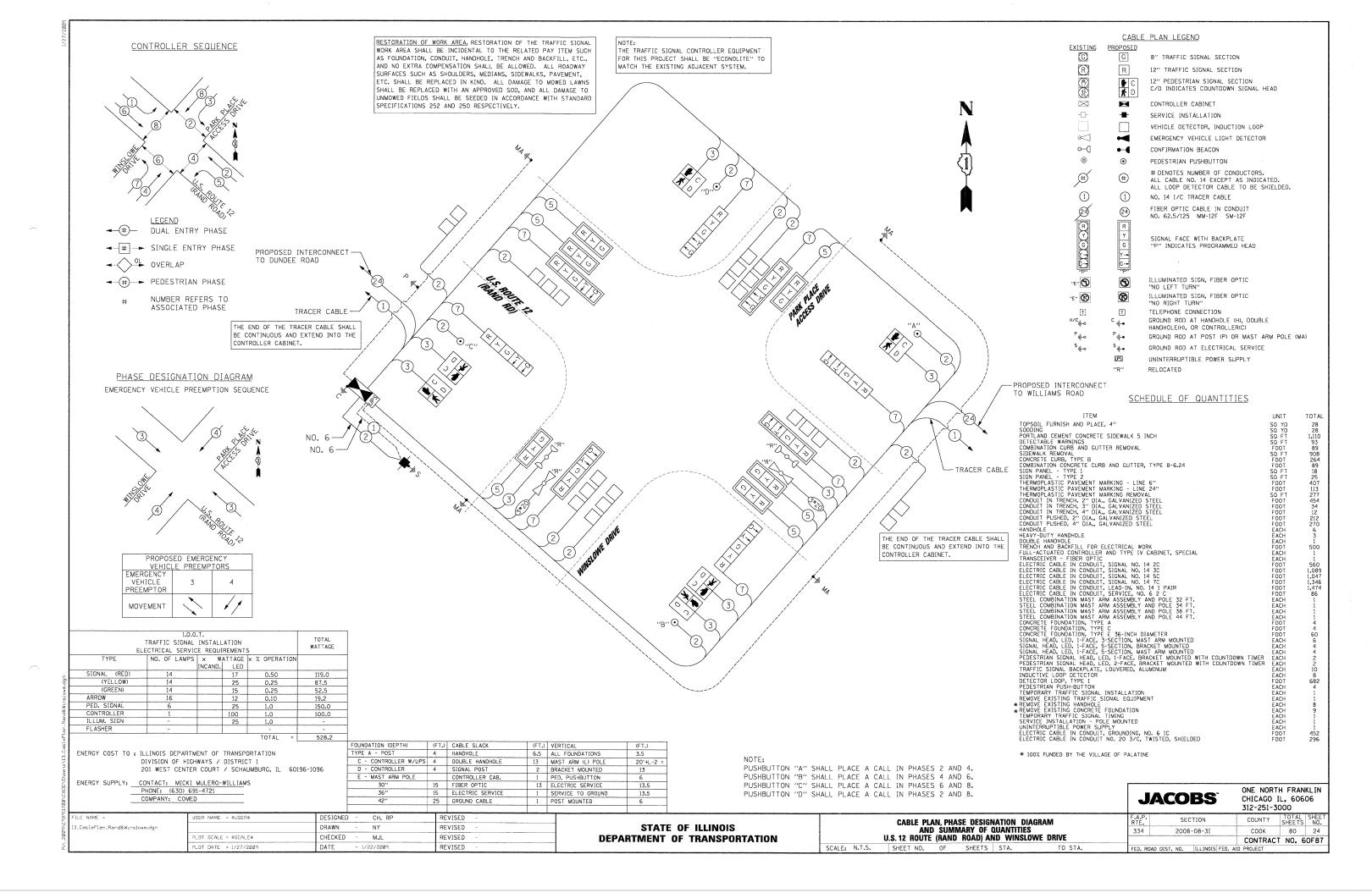
(V)VENDOR CABLE

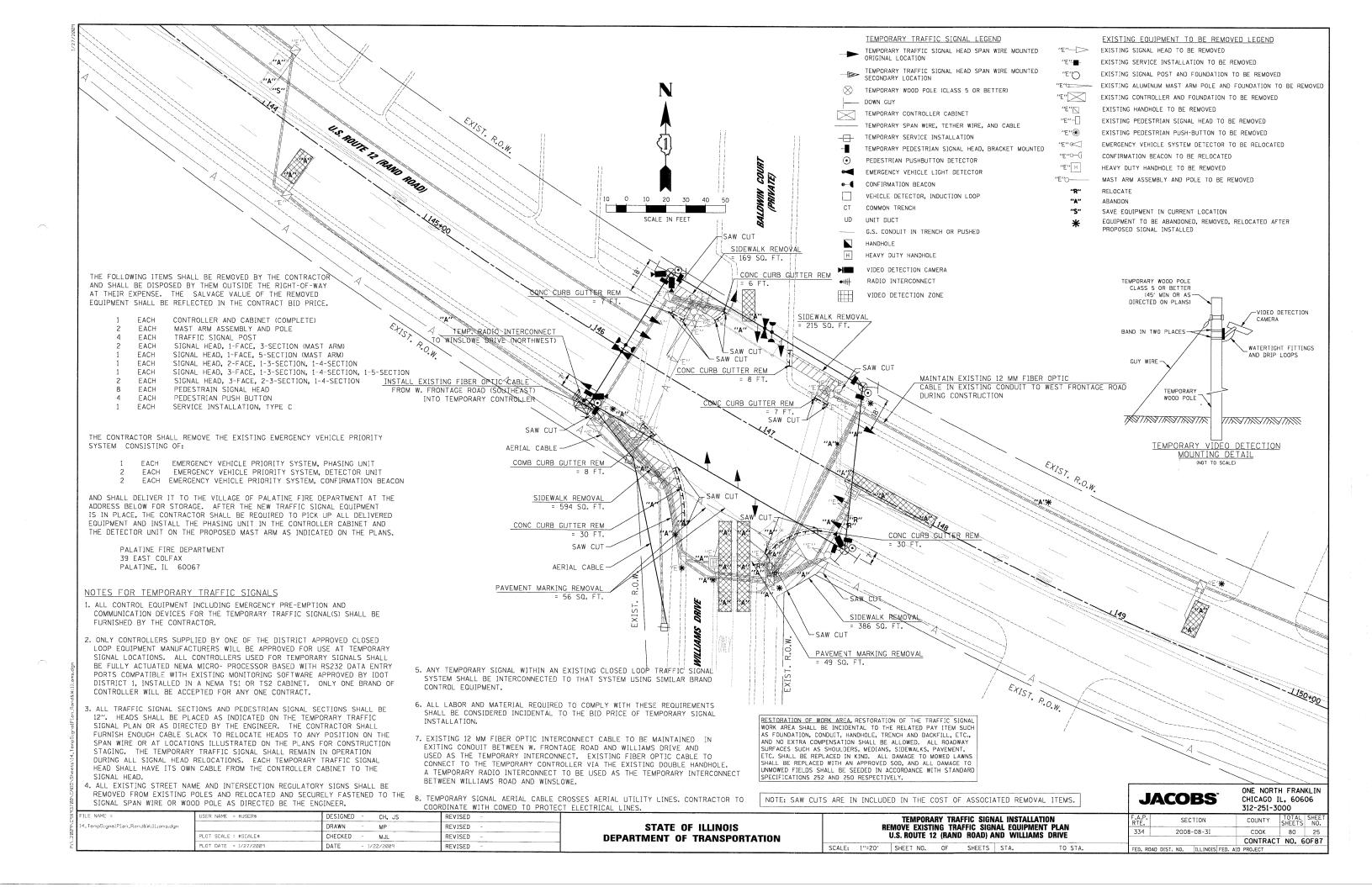
RADIO INTERCONNECT

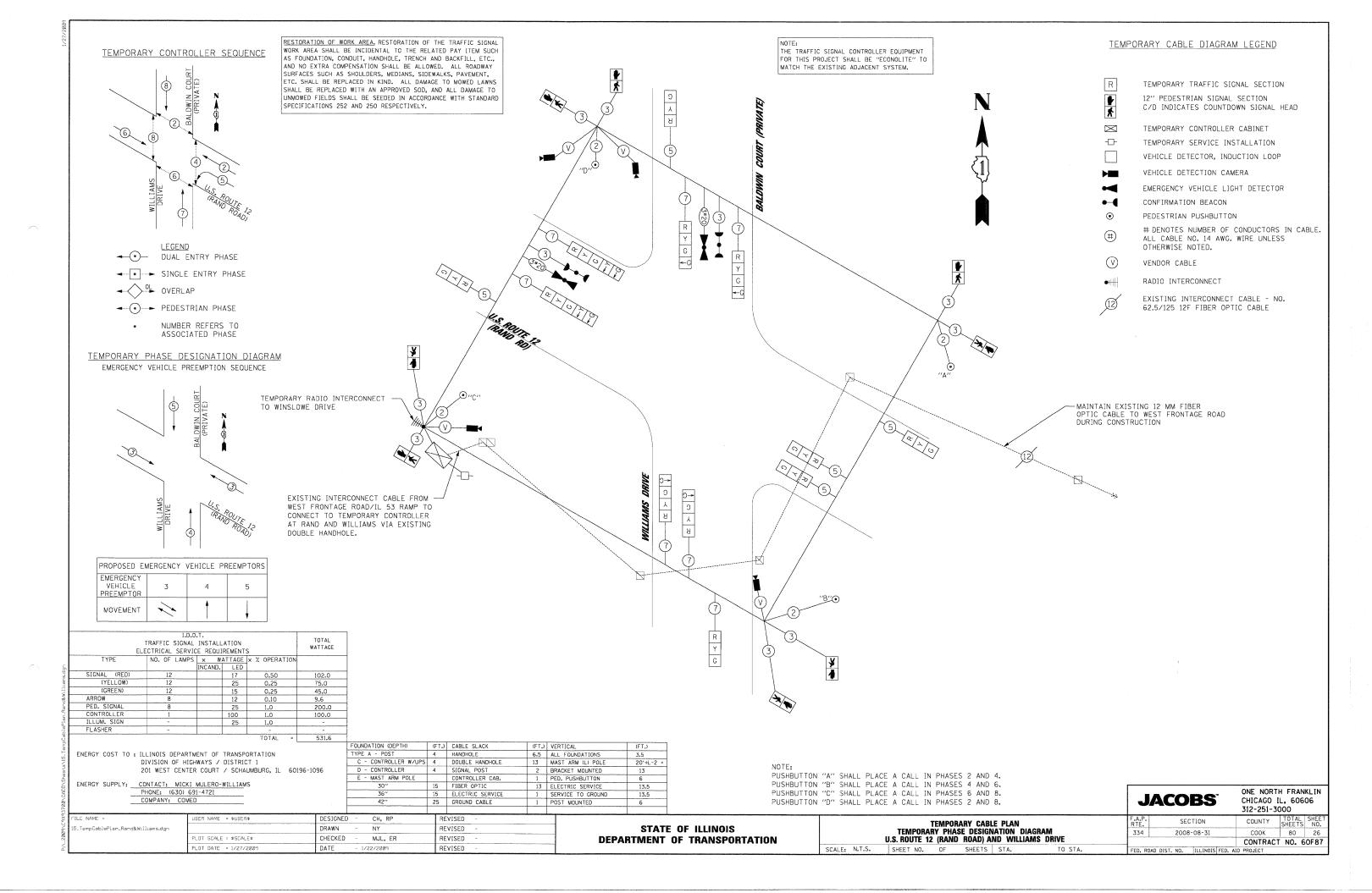
ONE NORTH FRANKLIN **JACOBS** CHICAGO IL, 60606 312-251-3000 COUNTY TOTAL SHEETS NO. COOK 80 22 SECTION COUNTY 2008-08-31

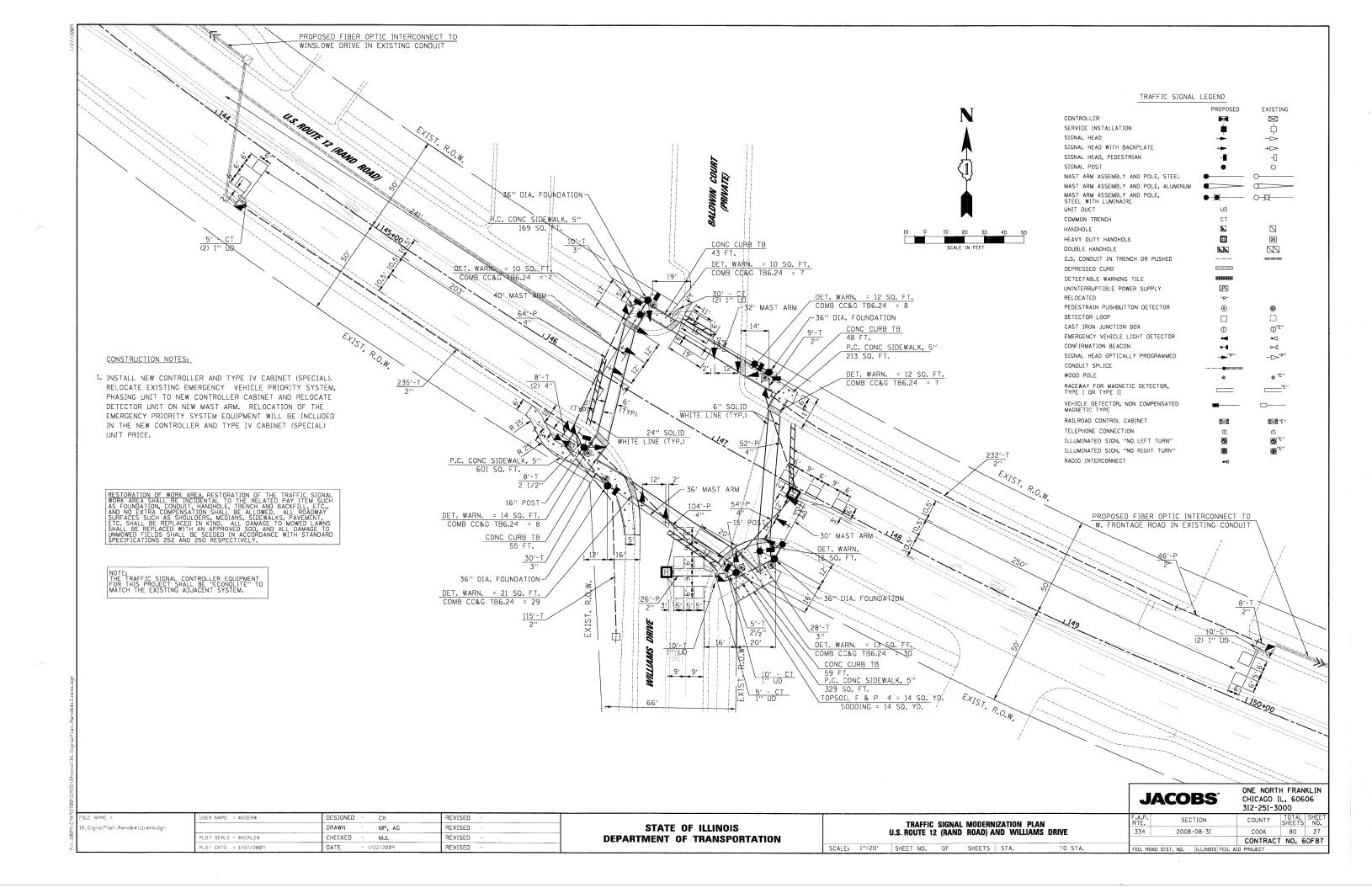
CONTRACT NO. 60F87

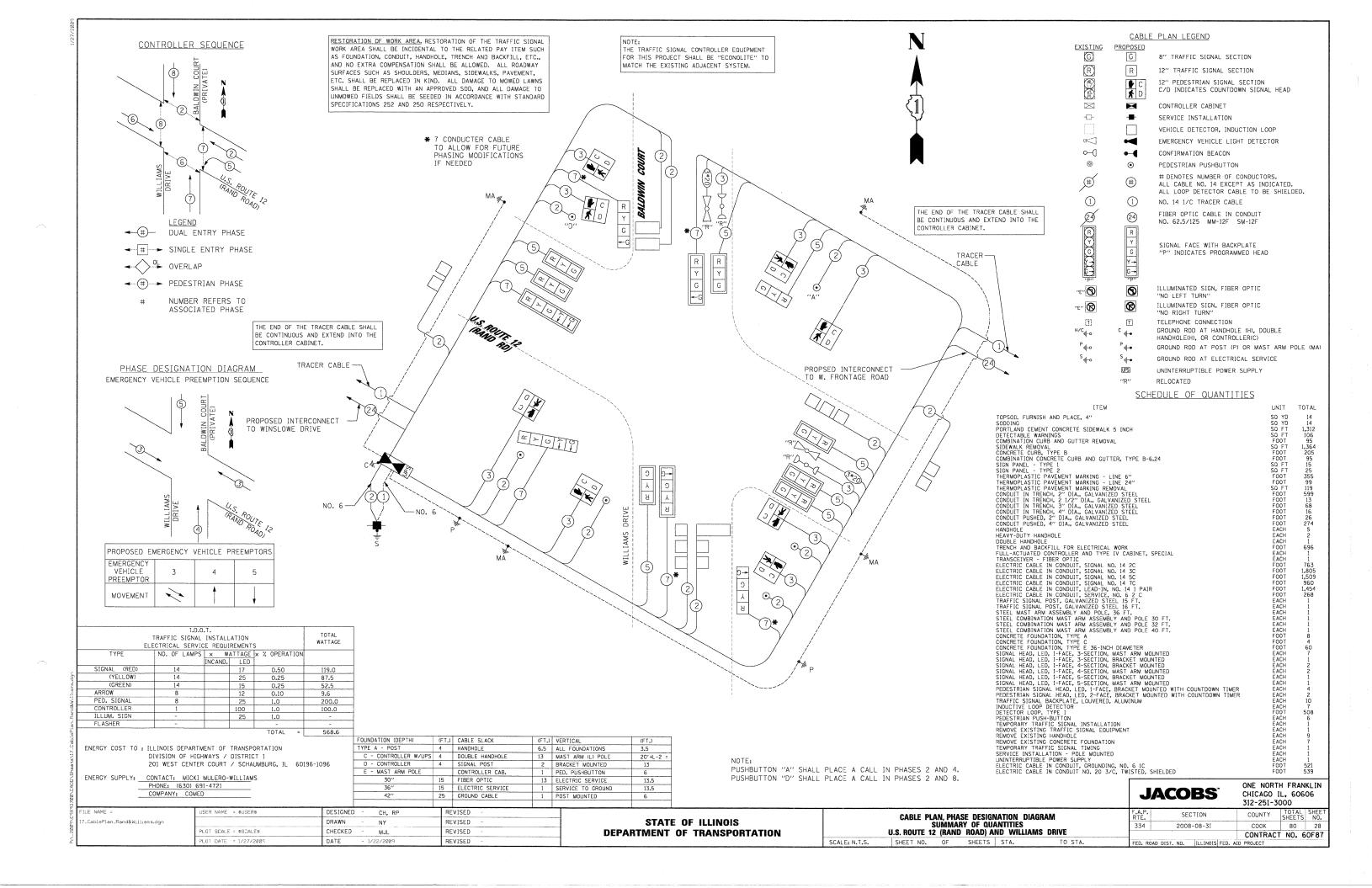


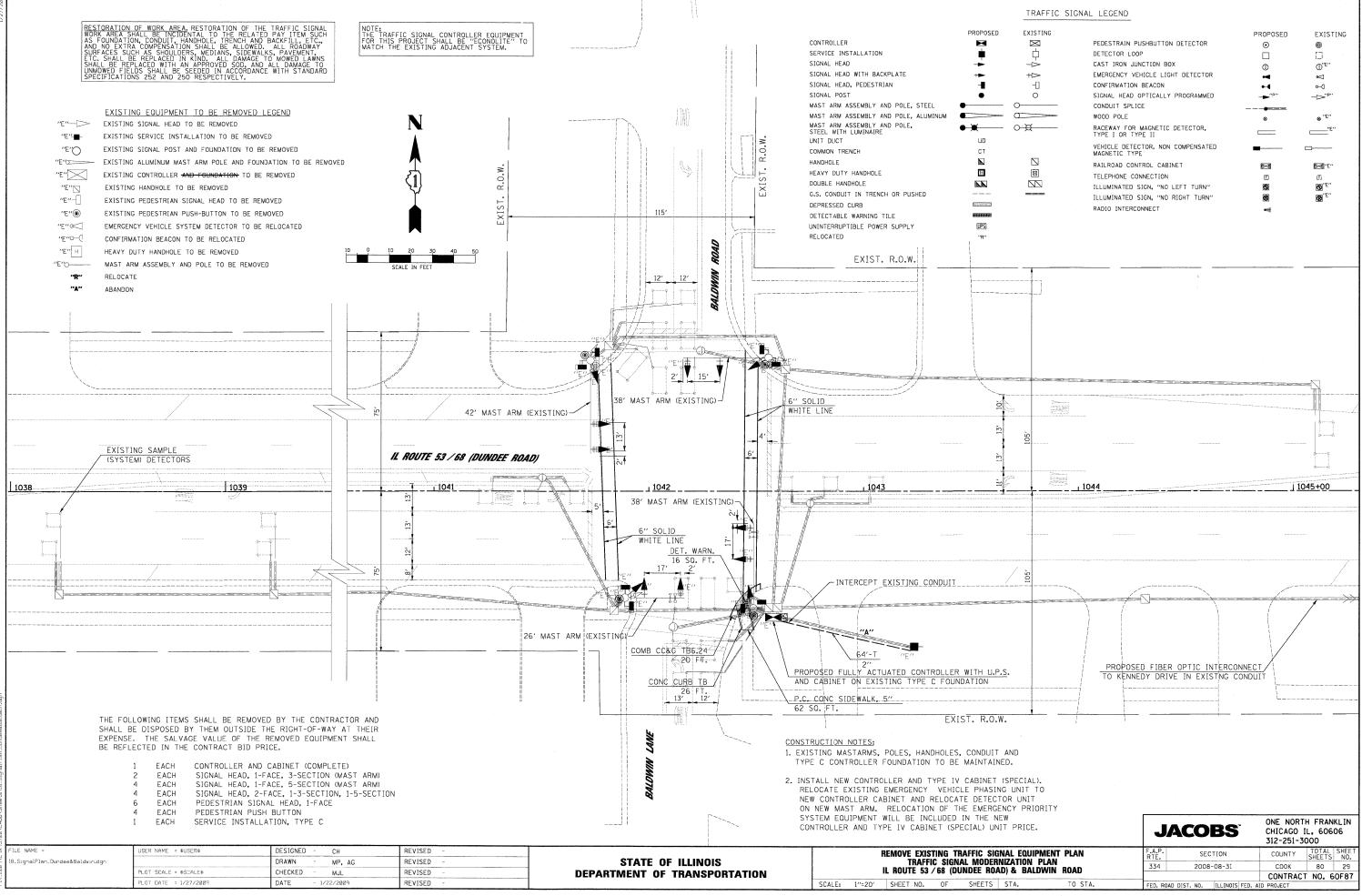


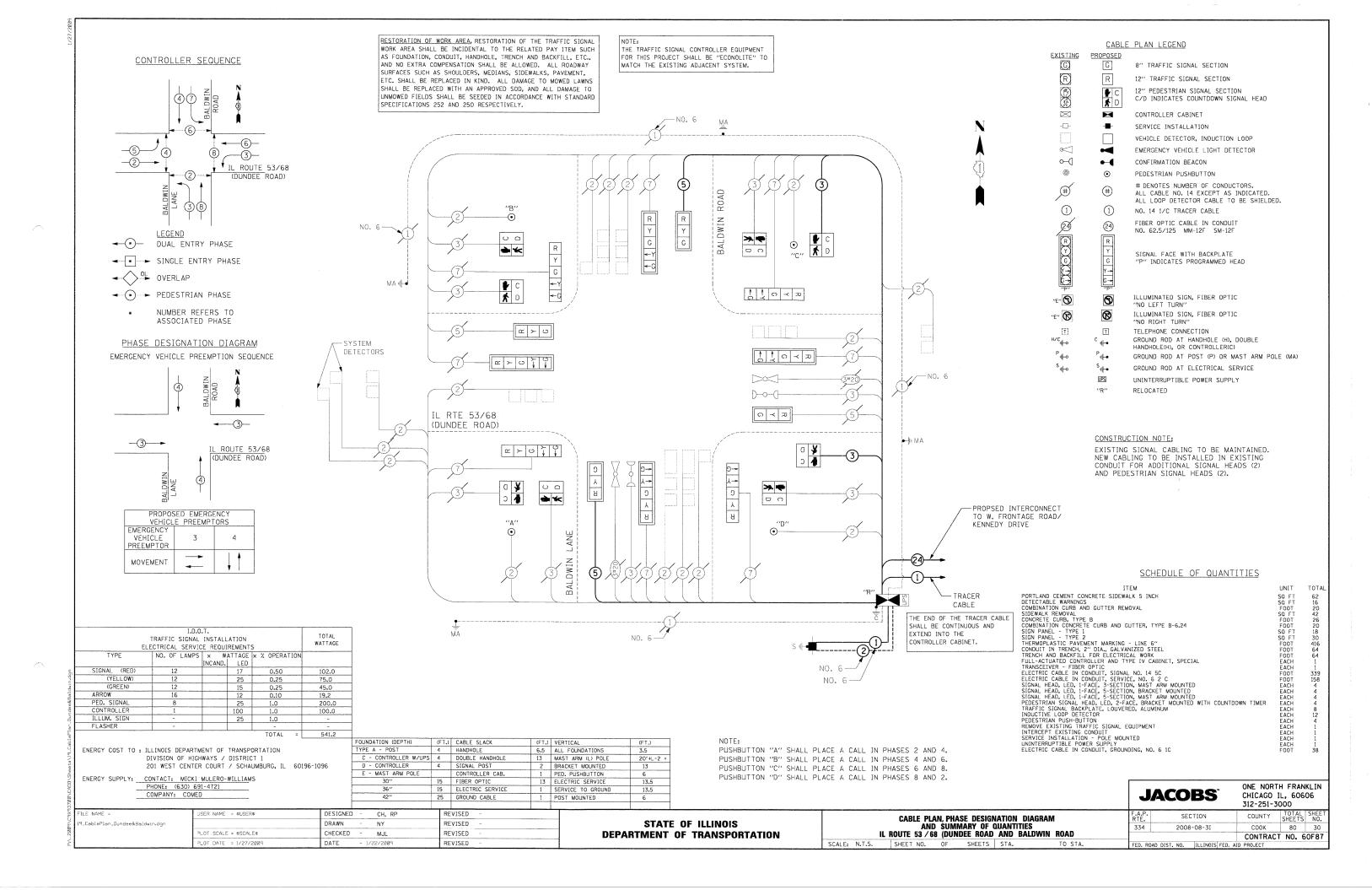


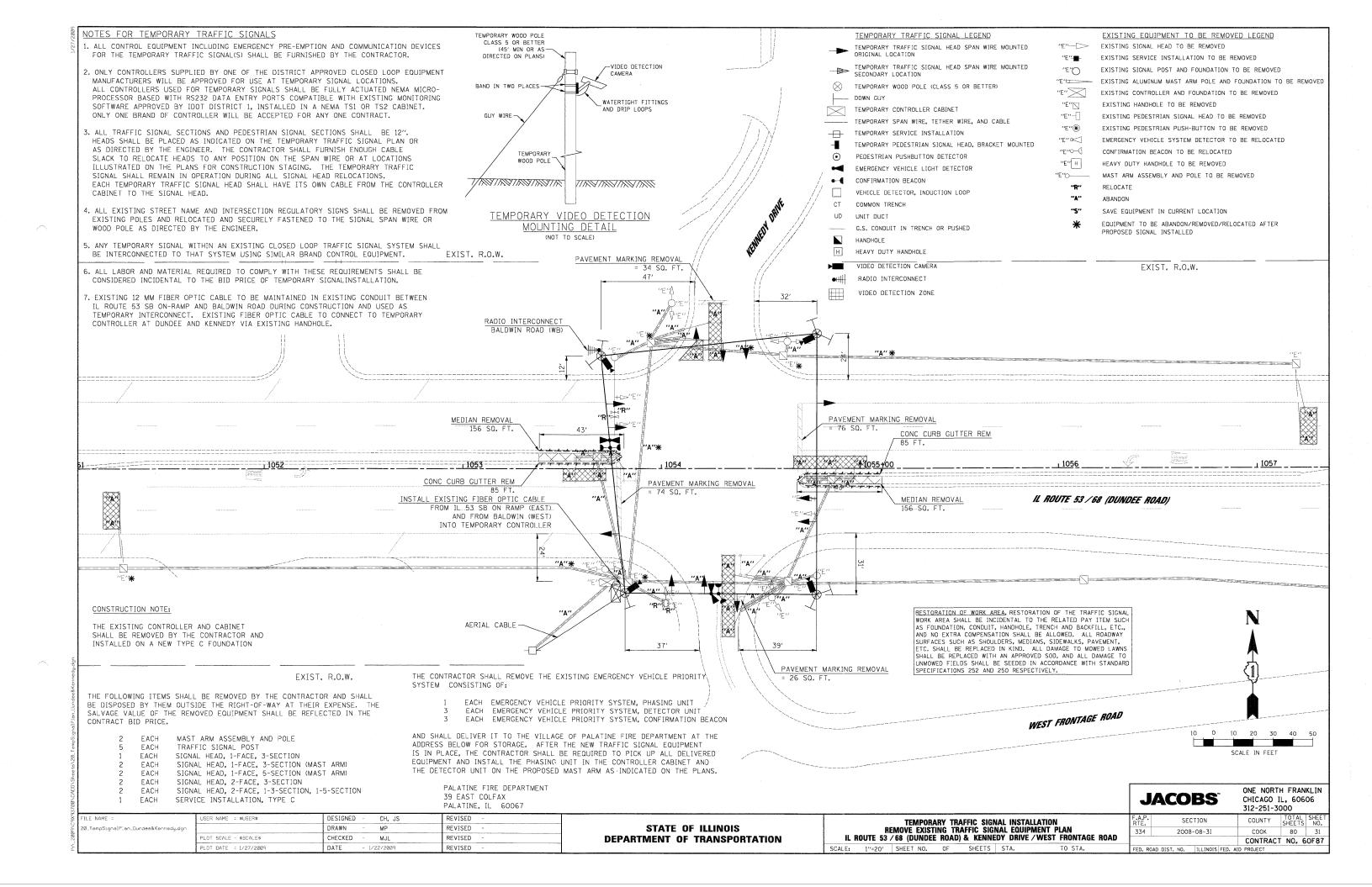


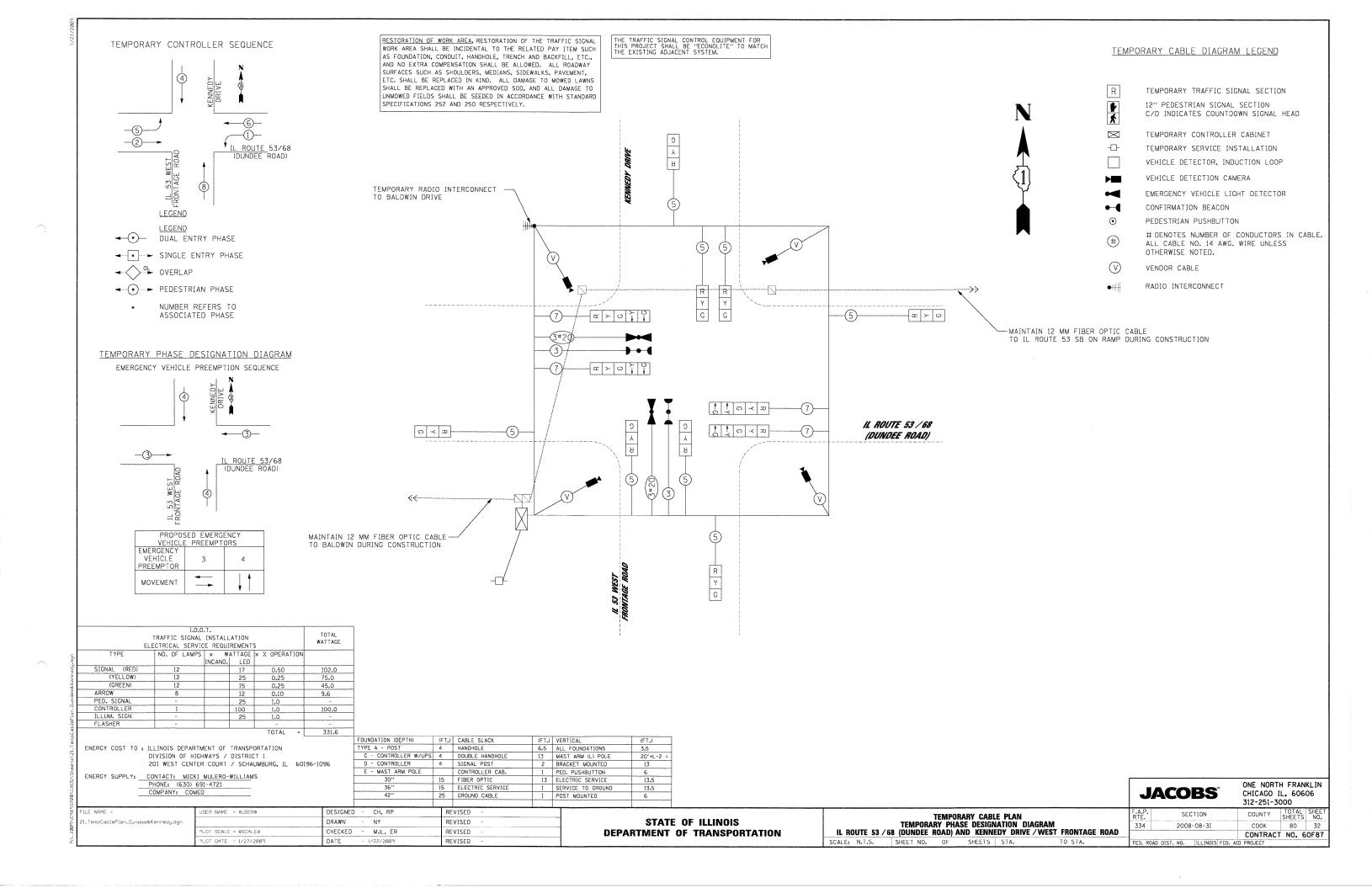


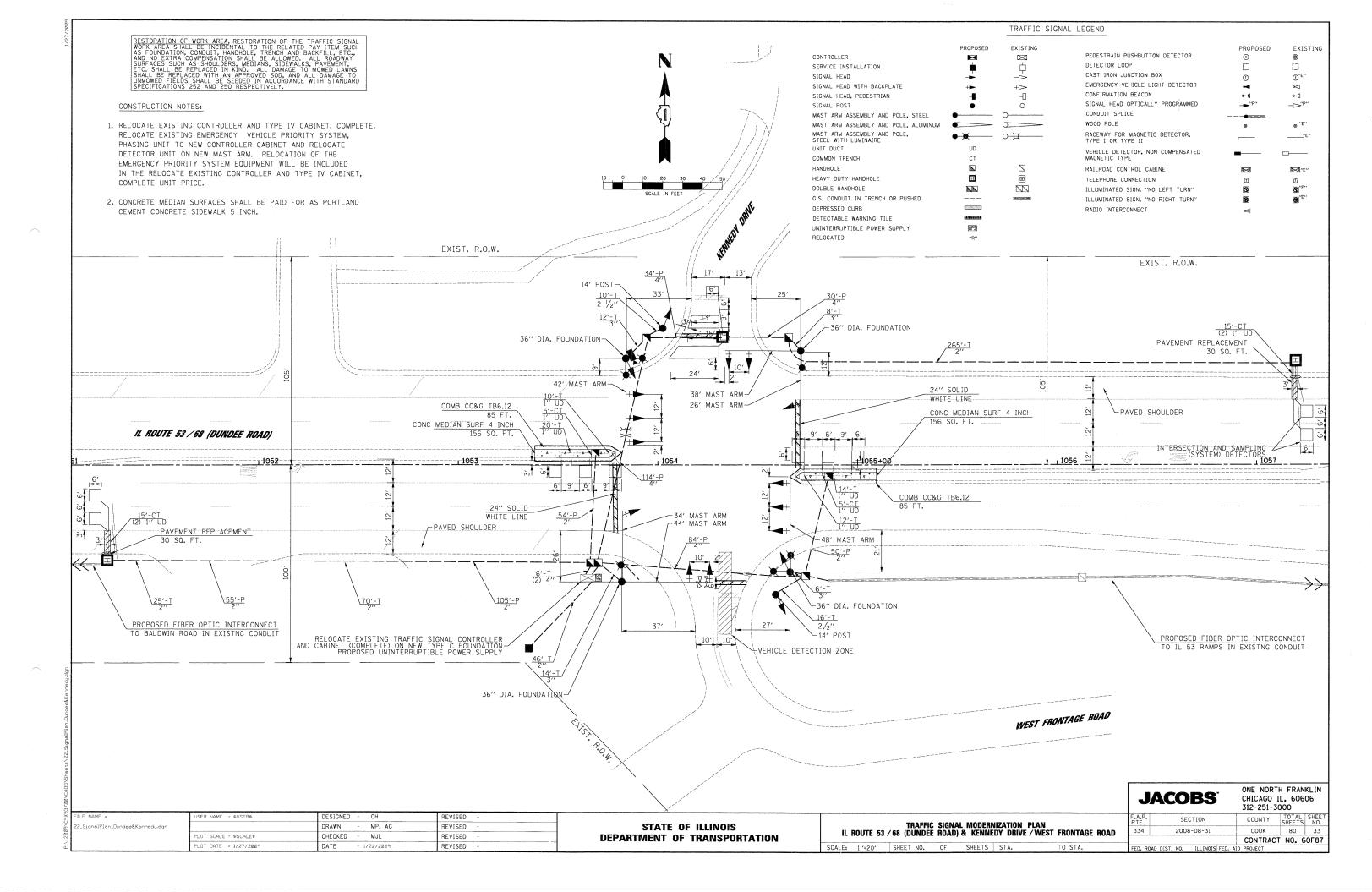


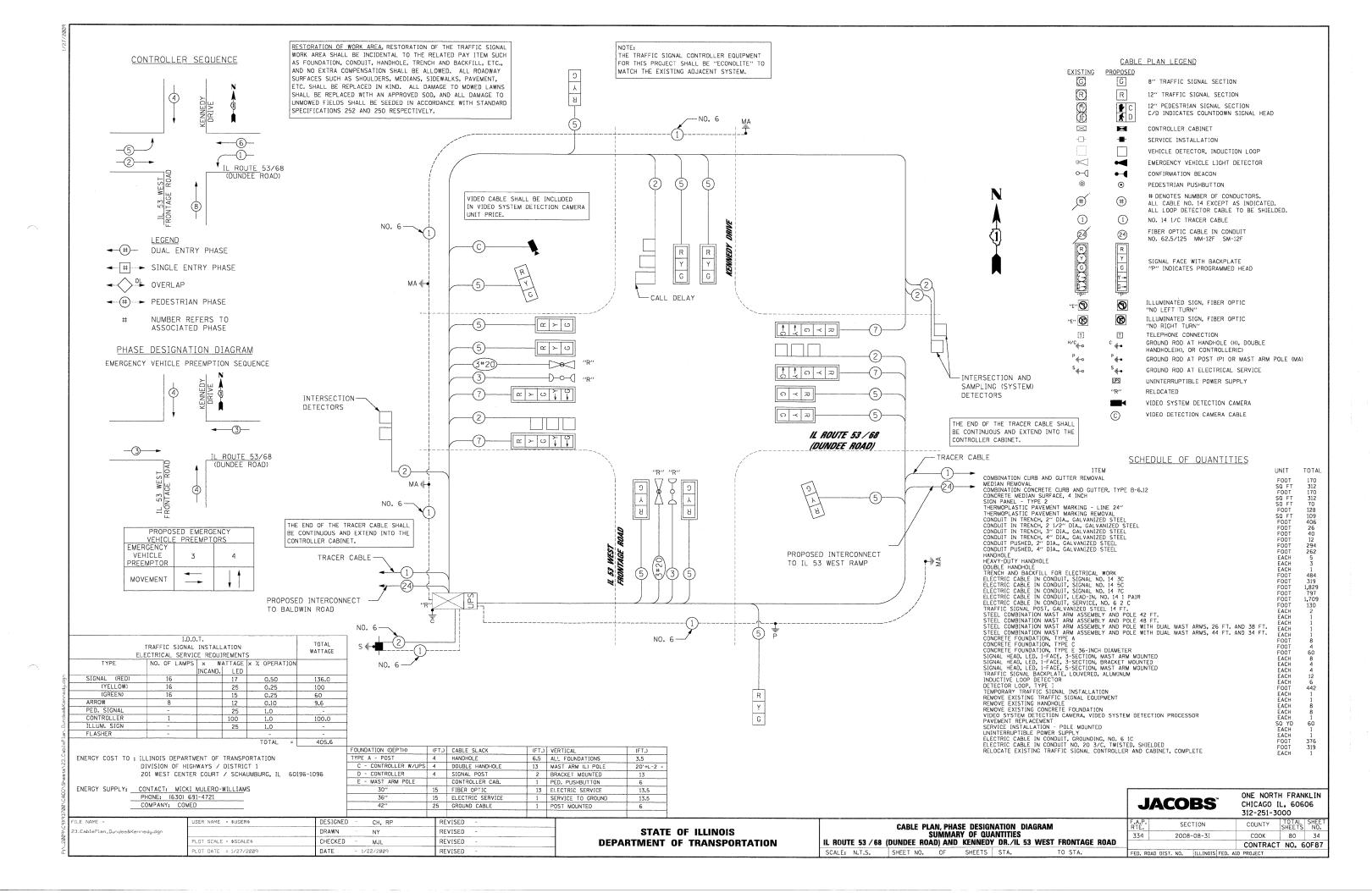


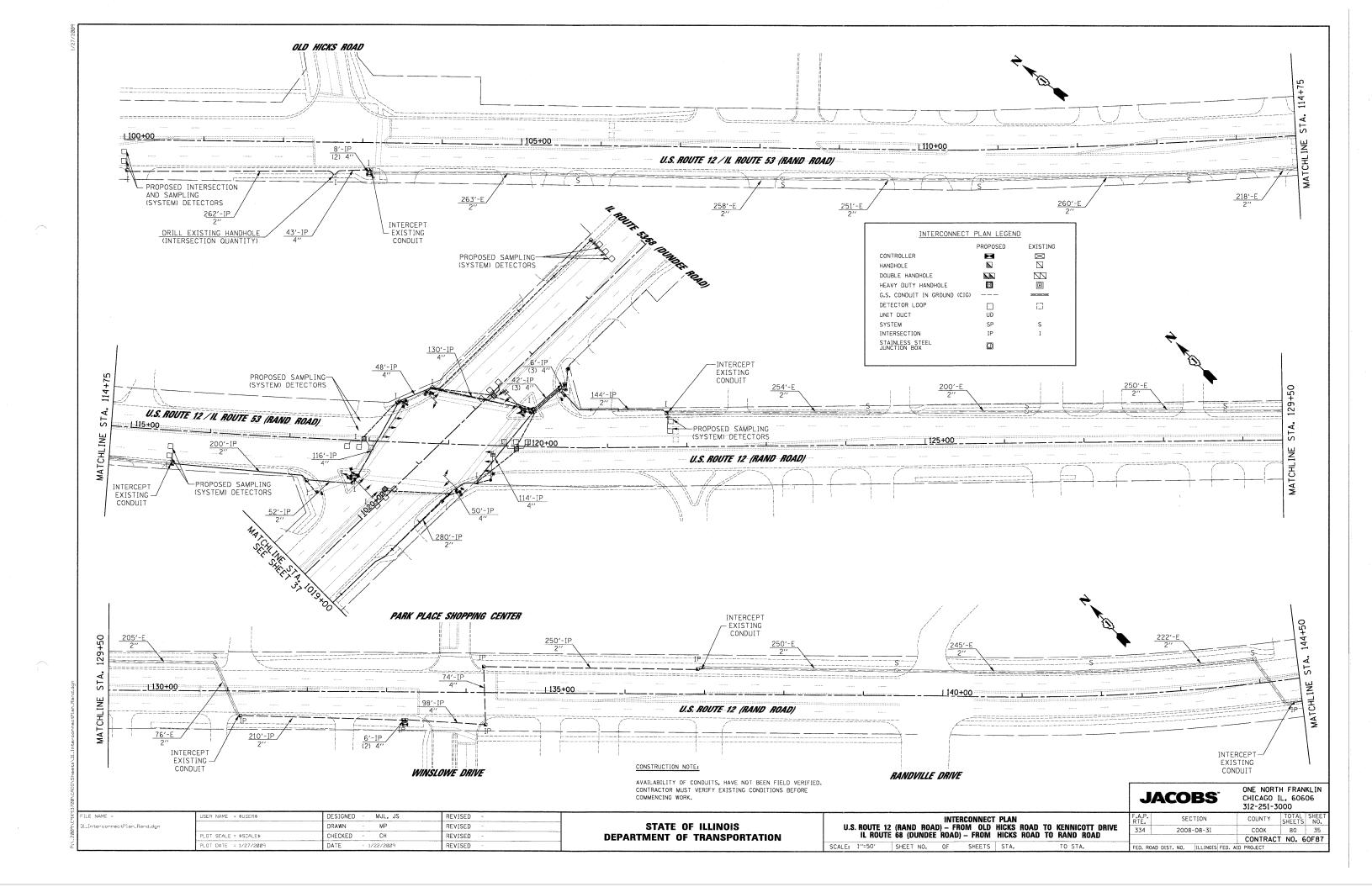


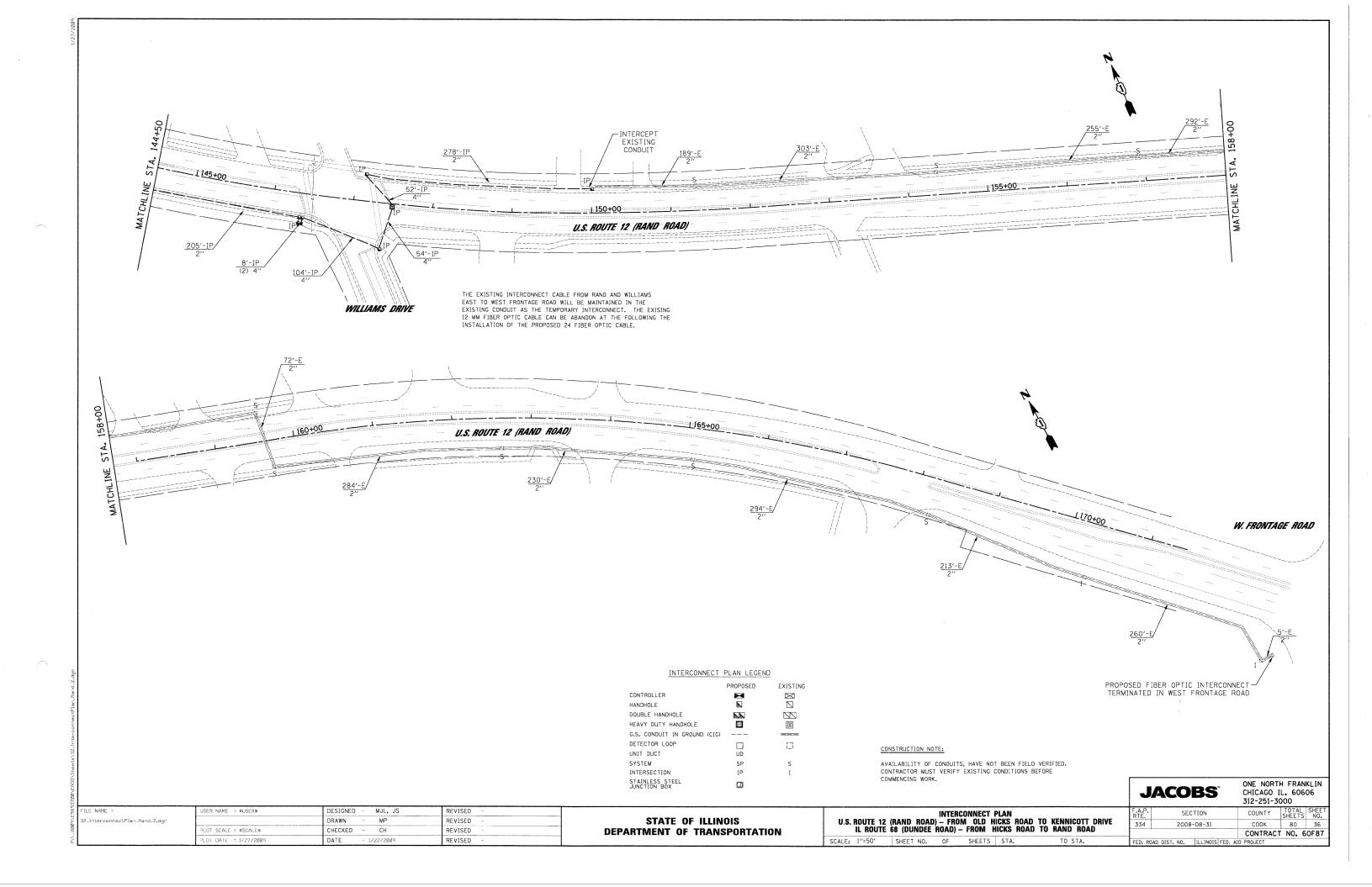






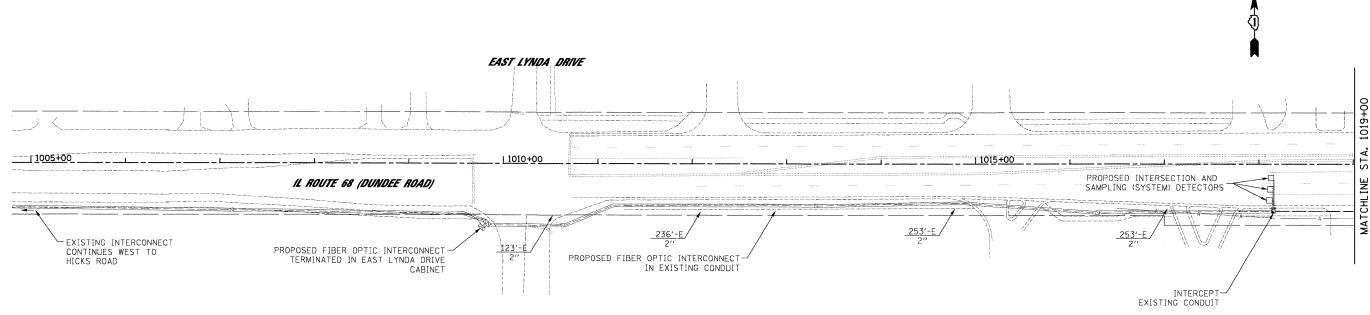






INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER		\bowtie
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		H
G.S. CONDUIT IN GROUND (CIG)		-
DETECTOR LOOP		
UNIT DUCT	UD	
SYSTEM	SP	S
INTERSECTION	IP	I
STAINLESS STEEL JUNCTION BOX		



CONSTRUCTION NOTE:

AVAILABILITY OF CONDUITS, HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR MUST VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK.

DESIGNED MJL, JS REVISED DRAWN REVISED 33_InterconnectPlan_Dundee.dgn PLOT SCALE = \$SCALE\$ CHECKED -СН REVISED REVISED

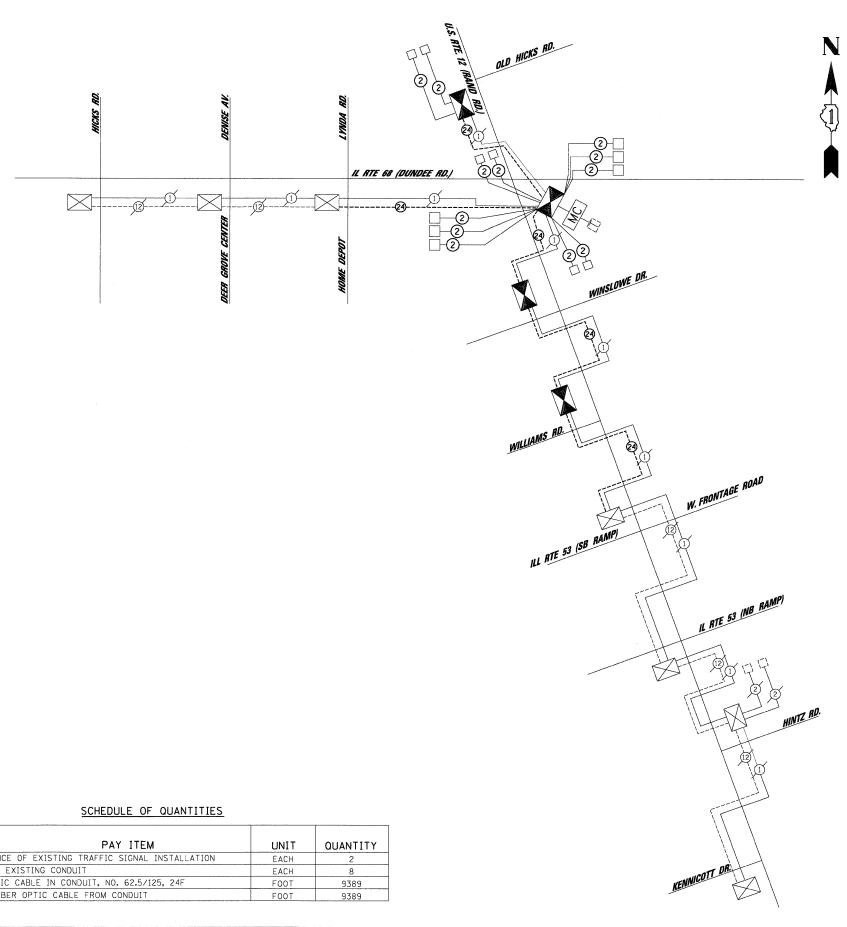
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

INTERCONNECT PLAN
U.S. ROUTE 12 (RAND ROAD) – FROM OLD HICKS ROAD TO KENNICOTT DRIVE
IL ROUTE 68 (DUNDEE ROAD) – FROM HICKS ROAD TO RAND ROAD SCALE: 1"=50" SHEET NO. OF SHEETS STA.

ONE NORTH FRANKLIN CHICAGO IL, 60606 **JACOBS** 312-251-3000 COUNTY TOTAL SHEE NO. COOK 80 37 CONTRACT NO. 60F87

SECTION

2008-08-31



INTERCONNECT SCHEMATIC LEGEND

THILLICONNECT SCHEWATTE LEGEND	
EXISTING INTERSECTION CONTROLLER	\bowtie
PROPOSED INTERSECTION CONTROLLER	\blacksquare
EXISTING MASTER CONTROLLER	EMC
PROPOSED MASTER CONTROLLER	MC
MASTER MASTER CONTROLLER	MMC
EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS	
PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	
EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	24
PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	29
EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE	(12)
PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE	(12)
EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	
PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	6
EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	
PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	
EXISTING ELECTRIC CABLE 1/C (AS SPECIFIED)	
PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)	
EXISTING TELEPHONE CONNECTION	\square

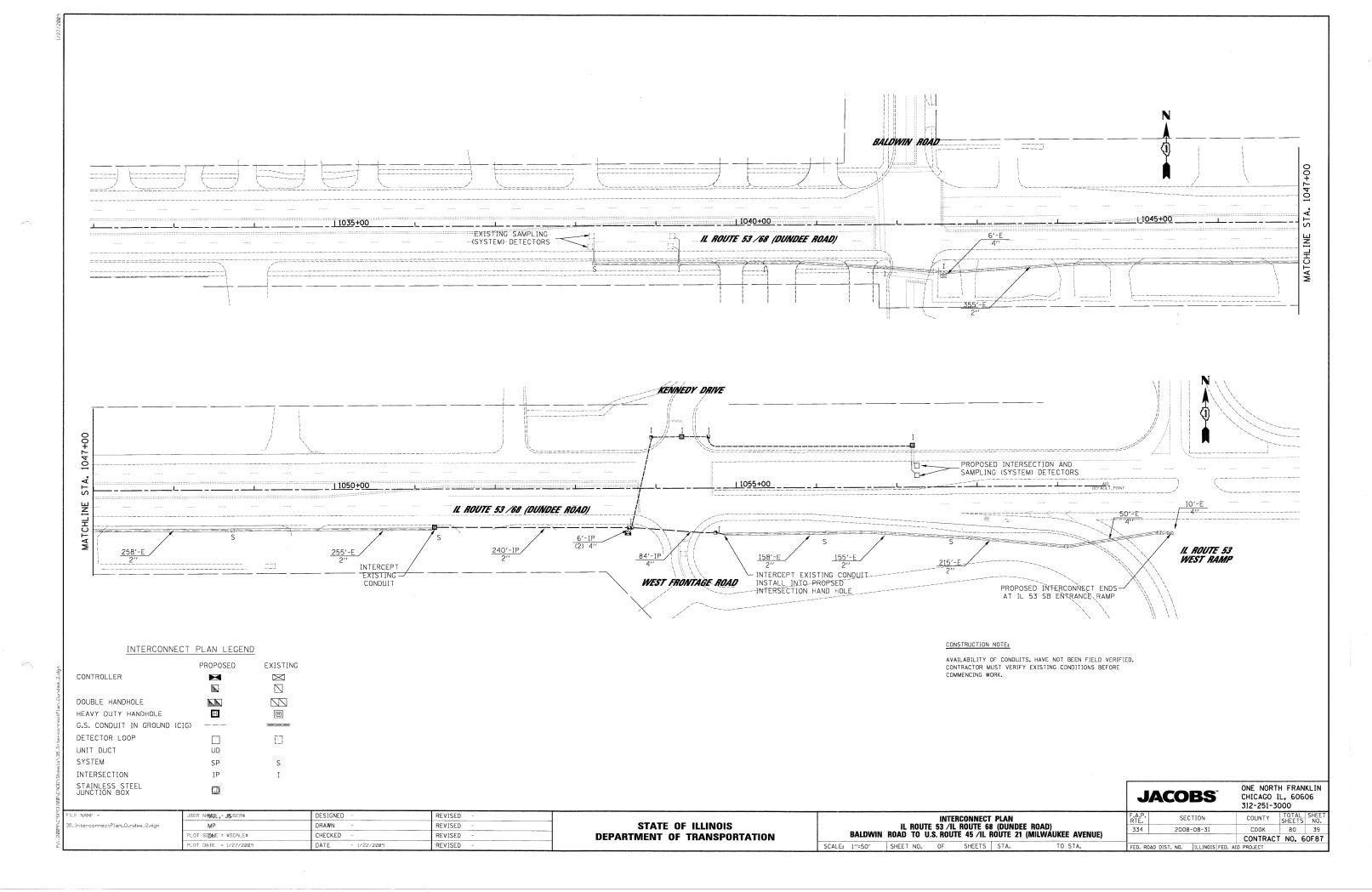
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
INTERCEPT EXISTING CONDUIT	EACH	8
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F	FOOT	9389
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	9389

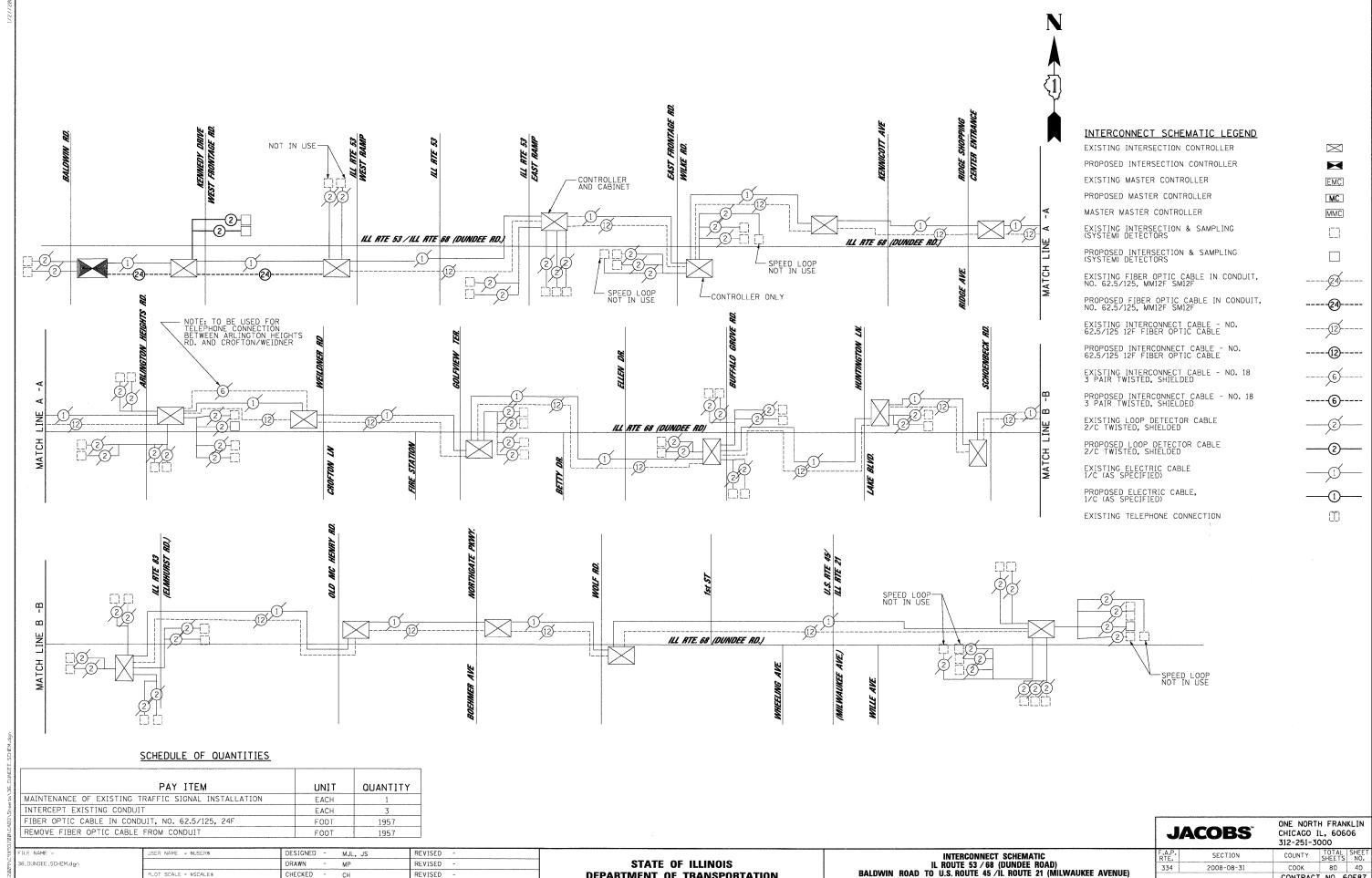
E NAME =	USER NAME = \$USER\$	DESIGNED - CH	REVISED -
_INI_RANU_Schematic.dgn		DRAWN - KM	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED - MJL	REVISED ~
	PLOT DATE = 1/27/2009	DATE - 1/22/2009	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
U.S. ROUTE 12 (RAND ROAD) – FROM OLD HICKS ROAD TO KENNICOTT DRIVE
IL ROUTE 68 (DUNDEE ROAD) – FROM HICKS ROAD TO RAND ROAD SCALE: N.T.S. SHEET NO. OF SHEETS STA.

J	AC	O	BS	ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000								
F.A.P. RTE.		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.					
334		2008	-08-3I		COOK	80	38					
					CONTRACT	NO. 6	OF87					
 FED. RO	AD DIST.	NO.	ILLINOIS	FED. AL	PROJECT							





PLOT DATE = 1/27/2009

DATE

- 1/22/2009

REVISED

DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
IL ROUTE 53 / 68 (DUNDEE ROAD)
BALDWIN ROAD TO U.S. ROUTE 45 /IL ROUTE 21 (MILWAUKEE AVENUE) SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

2008-08-3I CONTRACT NO. 60F87

RTE. SECTION COUNTY SHEETS NO. 334 2008-08-3I COOK 80 41 STA. TO STA. FED. RGAD DIST. NO. ILLINOIS FED. ALD PROJECT

SUPPORTING CHANNELS

Upper Case to Lower Case Spacing Chart 8-6 Inch Series "C & D"

acde bhikl god mnpru

16 17 22 24 16 1

acde bhikl goa mapru

22 24

Lower Case to Lower Case

Spacing Chart 6 Inch Series "C & D"

SERIES

DOQR

HIMN

SERIES adhgi

Imnqu

bfkops

JU

SECOND LETTER

C | D | C | D | C | D | C | D | C | D | C | D | C | D | C | D 12 | 14 | 14 | 15 | 12 | 14 | 06 | 10 | 11 | 14 | 06 | 10 | 11 | 12 | 12 | 14 14 15 20 21 14 15 11 12 14 15 12 14 12 14 16 17

14 | 15 | 20 | 21 | 12 | 14 | 06 | 10 | 12 | 14 | 12 | 14 | 14 | 15 | 14 | 15 14 | 15 | 20 | 21 | 14 | 15 | 06 | 10 | 12 | 14 | 12 | 14 | 14 | 15 | 14 | 15

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12 | 14 | 16 | 17 | 12 | 14 | 06 | 10 | 12 | 14 | 12 | 14 | 12 | 14 | 12 | 14

11 | 12 | 16 | 17 | 06 | 10 | 06 | 10 | 11 | 12 | 11 | 12 | 11 | 12 | 14 06 10 14 15 11 12 06 10 12 14 12 14 12 14 12 14 05 06 14 15 06 10 05 06 05 07 05 06 06 10 11 12

SECOND LETTER

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

UPPER AND LOWER CASE LETTER WIDTHS

E R S		UPPER		H UPPER LETTERS	E T E R S	6 INCH CASE L	LOWER
T E	SEF	RIES	SE	RIES	T E	SE	RIES
R 5	C	O	C	D	R	C	D
A	36	50	50	6.5	0	35	42
8	32	40	43	53	b	35	45
С	32	40	4 3	5 3	c	35	41
0	32	40	43	53	d	35	42
E	30	35	40	47	е	35	42
F	30	35	40	47	f	2 3	26
G	32	40	43	5.3	g	35	42
Н	32	40	43	53	h	35	42
I	0 7	0.7	11	12	1	1 1	11
Ĵ	30	36	40	50	1	20	22
K	32	41	43	5 4	k	35	42
L	30	35	40	47	ı	1 1	1
М	3 7	45	51	61	m	60	70
N	32	40	43	53	n	35	42
0	34	42	45	55	0	36	43
Р	32	40	4 3	53	p	35	42
Q	34	42	45	55	q	35	42
R	3 2	40	43	53	r	26	32
s	32	40	43	53	S	36	42
Т	30	35	40	47	t	27	32
U	32	40	43	53	U	35	42
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W	44	52	6 ⁰	70	w	55	64
Х	34	40	45	53	×	44	5 1
Y	36	50	5 0	66	у	46	53
Z	3 ²	40	43	5 ³	Z	3 6	43

N _{U.}	6 INCH	SERIES	8 INCH	SERIES
N _{UMBER}	С	D	С	D
1	12	1.4	₁ 5	20
2	32	40	43	53
3	32	40	43	5 3
4	35	43	47	57
5	32	40	43	53
6	32	40	43	5 ³
7	3 2	40	43	53
8	32	40	43	53
9	3 2	40	43	53
0	34	4?	45	55

REVISION	5
NAME	DATE
CREATED	2/79
D.A.Z./ D.A.C.	11/90
	6/98
CADD	10/01/00

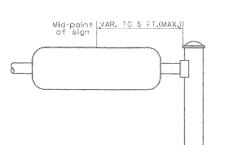
DISTRICT 1 MAST ARM MOUNTED

ILLINOIS DEPARTMENT OF TRANSPORTATION

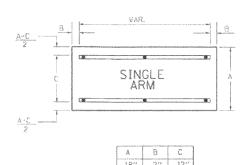
STREET NAME SIGNS

SCALE: NONE DRAWN BY TUR CHECKED BY RFK

VAR. A B C 18" 2" 14"



SUPPORTING CHANNELS



GENERAL NOTES

WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED. THE MAST ARM ASSEMBLY AND POLES SHALL RE WHERE MAST ARM MOUNTED STREET HARE SIGNS ARE SPECIFIED, THE MAST ARM MASCHMET ARE POLES SHELL BE DESIGNED TO SUPPORT THE LOADINGS CALLED POR ON STANDARDS 834000 AND 83401, AS APPLICABLE, PLUS TWO (2) SIGN PAMELS 2"-6" × 6"-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REDUIREMENTS OF THE CUBRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY,

FOR SIGN DIMENSIONS AND DETAILS

SEE SHEETS 41 AND 42

- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED
- ALL BORDERS SHALL BE 1/2" WIDE AND CORNER RADIUS SHALL BE 2-1/2". 5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNETY ALUMINUM CHANNEL FRAMING SYSTEM ARE:
- * A.K.T. CORFORATION SCHAUMBURG, IL * TUCKER COMPANY, INC. WAUWATOSA, WE

PARTS LISTING

SIGN SCREWS

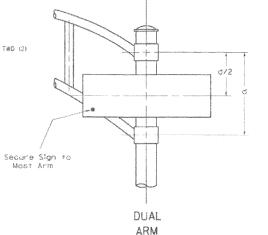
CHICAGO HEIGHTS, IL

* WESTERN TRAFFIC CONTROL INC. CICERO, IL

AMERICAN FABRICATION CO.

PART *HPN053 (MED. CHANNEL) 1/2" × 14 × 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER PART "HPNO34 (LINIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM Shall be used. See Note *5.

12 | 14 | 16 | 17 | 12 | 14 | 06 | 10 | 11 | 12 | 11 | 12 | 12 | 14 | 12 | 14 † Z 11 | 12 | 14 | 15 | 11 | 12 | 05 | 06 | 06 | 10 | 06 | 10 | 11 | 12 | 11 | 12 11 | 12 | 14 | 15 | 11 | 12 | 05 | 06 | 11 | 12 | 11 | 12 | 11 | 12 | 14 12 | 14 | 16 | 17 | 11 | 12 | 05 | 06 | 11 | 12 | 11 | 12 | 11 | 12 | 14

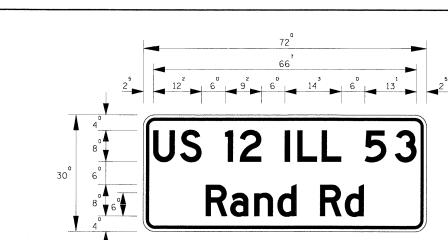
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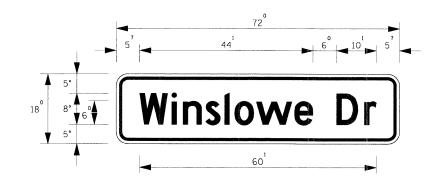
Number to Number Spacing Chart 8 Inch Series "C & D"

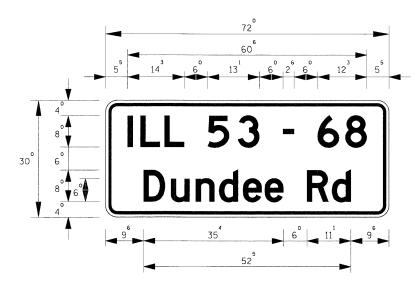
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	N U	5			14	15	14	15	14	15	11	12	11	12	14	15	14	1 ⁵	11	12	14	15	14	15
	M B	6			16	17	I ⁴	15	14	15	12	15	12	14	14	1 ⁵	14	1 ⁵	goods anne	12	14	15	14	15
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-		8	***************************************		16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

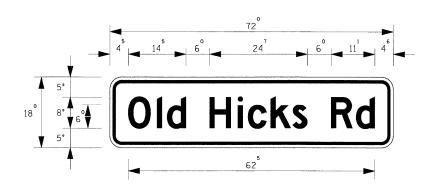
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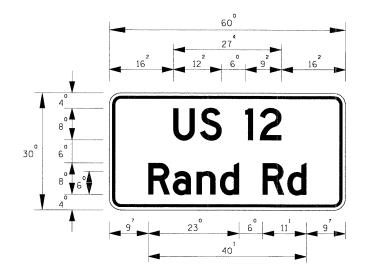
2483 17.6

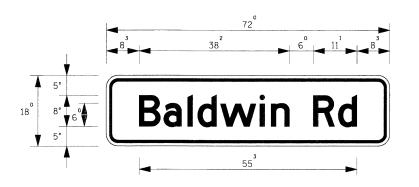


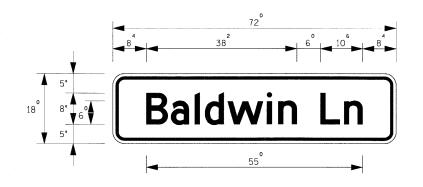


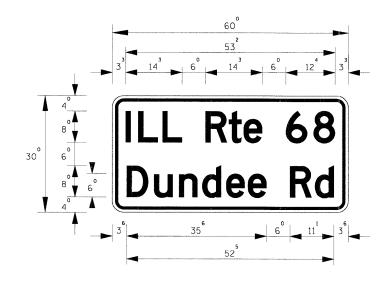


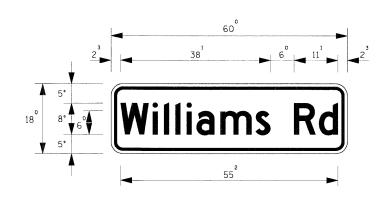












NOTE: F	FOR	IDOT	DISTRICT	ONE	CADD	DETAIL	TS-02	SEE	SHEET	DET-3	
 											TE

J	ACOBS	ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000						
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
334	2008-08-31	COOK	80	42				
		CONTRACT	NO. 6	OF87				

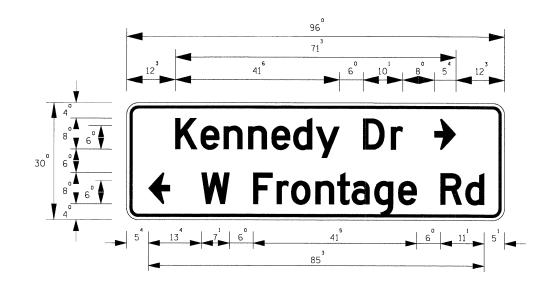
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39.0	42_Detail_TSØ2_Signs.dgn		DRAWN -	REVISED -	
-206		PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	ĺ
Ę.		PLOT DATE = 1/27/2009	DATE - 1/22/2009	REVISED -	

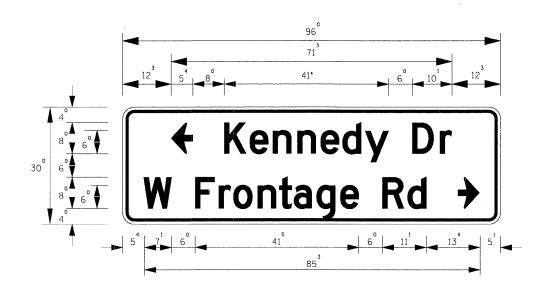
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

SUPPLEMENTAL SHEETS FOR IDOT DISTRICT CADD DETAIL TS-02

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





NOTE: FOR IDOT DISTRICT ONE CADD DETAIL TS-02 SEE SHEET DET-

SCALE: NTS

SUPPLEMENTAL SHEETS FOR IDOT DISTRICT CADD DETAIL TS-02 2008-08-31 TO STA. SHEET NO. OF SHEETS STA.

ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000

COUNTY TOTAL SHEE NO. COOK 80 43

CONTRACT NO. 60F87

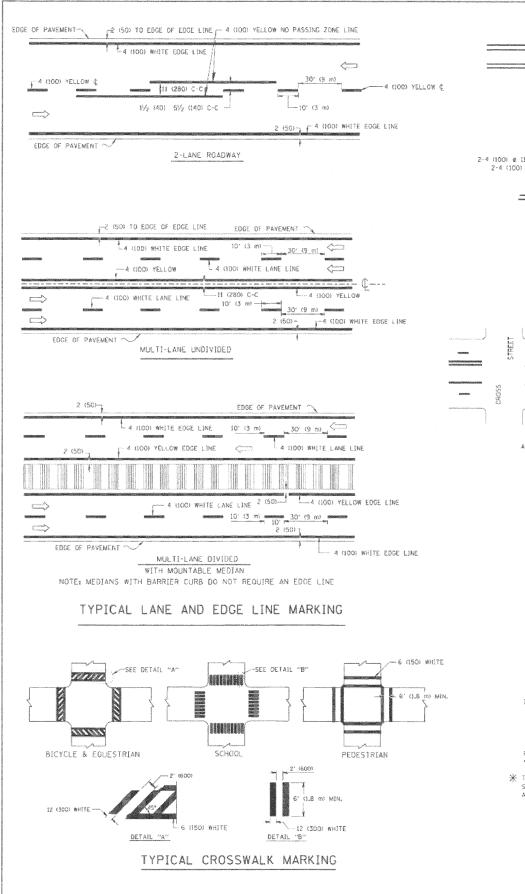
JACOBS

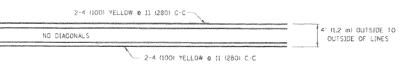
43_Detail_TS02_Signs_2,dgn

SER NAME = \$USER\$

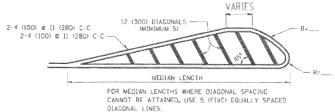
PLOT SCALE = \$SCALE\$

DESIGNED -REVISED STATE OF ILLINOIS DRAWN REVISED CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** DATE REVISED



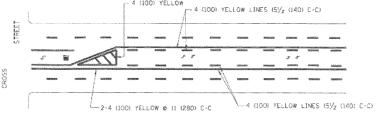


4' (L2 m) WIDE MEDIANS ONLY



DIAGONAL LINE SPACING: 50' 05 ml C-C (LESS THAN 30MPH (50 km/h)) 75' (25 ml C-C 30MPH (50 km/h) TO 45MPH (10 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1,2 m) WIDE

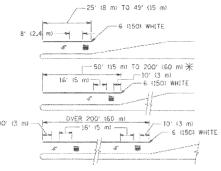


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' 160 m) TO 300' 190 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



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

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

CONTRACT NO. 60F87 RTE. SECTION COUNTY TOTAL SHEET NO. 334 2008-08-3I COOK 80 44 TO STA. STA. FED. ROMO DIST. NO. ILLINOIS FED. AID PROJECT

ISLAND OFFSET FROM PAVEMENT EDGE 8 (200) WHITE -RAISED [SLAND ISLAND AT PAVEMENT EDGE

8 1200) WHITE-

12 (300) WHITE DIAGONALS @ 10' (3 m) OR LESS SPACING

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LAME PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAYEMENT	2 6 4 ([00)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 6 4 (100)	50L10 50L10	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
CANE LINES	4 GOO) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (L8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 ()50) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2,4m))	SOLID	WHITE	SEE TYPICAL TURN LANE WARKING DETAIL
TWO WAY LEFT TUBN MARKING .	2 # 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' 13 MF LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	B' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EDLESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (350) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (500)	SOLID	WHITE	PLACE 4" CL2 milm advance OF AMD PARALLEL TO EMOSSMALK, IF PRESENT. OTHERWISE, PLACE AT DELBHAD STOPPHO FORMIT PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSURE
PAINTED MEDIANS	2 m 4 (100) WITH 12 (300) DIAGONALS 2 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SELIO	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	IL (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GCRE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS # 45*	SOLID	N:SLIE.	DIAGONALS: 15' (4,5 m) C-C RESS THAN 30MPH (50 km/h); 20' (5 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h); 30' (9 m) C-C (DVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	S0L10	W2417E	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SD. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (6.0 m ²)
SHOLL DER DIAGONALS	12 (300) c 45°	SOLIO	WHITE - RIGHT YELLOW - LEFT	50' 05 ml C-C (LESS THAN 30MPH (50 km/h)) 75' (25 ml C-C (30 MPH (50 km/h)) TO 45MPH (70 km/h)) 150' (45 ml C-C (3VER 45MPH (70 km/h))

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

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

REVISIONS NAME	90 34 96 86	DISTRIC TYPICAL F MARK	PAVEMENT	4
	SCALE: NONE		DRAWN BY CADE	ò

DRAWN BY CADD CHECKED BY TC-13

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: *THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION* (REFERED TO AS THE *STANDARD SPECIFICATIONS*), THE *SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS*, THE *MANUAL OF TEST PROCEDURES FOR MATERIALS*. THE STREET LIGHTING IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IES RP8 LATEST EDITION) AND THE NATIONAL ELECTRICAL CODE (NEC. NFPA. 70, LATEST EDITION).
- 2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND IDOT DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER OR CITY.
- 4. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN CITY UTILITY LOCATIONS AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
- 5. NOT USED.
- 6. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS AS APPROVED BY THE CITY DIRECTOR OF PUBLIC WORKS OR DESIGNATED PROJECT MANAGER. UNTIL THE OWNERS, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO.
- NOT USED.
- 9. THE CONTRACTOR SHALL PROVIDE WARRANTIES OR GUARANTEES PROVIDING FOR SATISFACTORY IN-SERVICE OPERATION OF THE ELECTRICAL EQUIPMENT AND RELATED COMPONENTS OPERATION OF THE ELECTRICAL EQUIPMENT AND RELATED COMPONENTS AS PER I.D.OT. STANDARDS.
- 10. NOT USED.
- 11. ANY DAMAGE TO PAVEMENT. SIDEWALK. CURB. OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST AND REPLACEMENT SHALL MEET THE APPROVAL OF THE CITY DIRECTOR OF PUBLIC WORKS OR DESIGNATED PROJECT MANAGER.
- 12. NOT USED.
- 13. NOT USED.
- 14. NOT USED.

- 15. ALL LIGHT POLE FOUNDATIONS WILL BE HELIX TYPE, UNLESS NOTED OTHERWISE ON PLANS. SEE DETAIL BE-305.
- 16. ALL CONDUITS UNDER ROADWAYS AND DRIVEWAYS SHALL BE PUSHED, CONDUIT LENGTHS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL DISTANCE REQUIREMENTS IN THE FIELD.
- 17. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS AND SHALL TAG ALL WIRING ACCORDINGLY.
- THE CITY AND ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCING EACH CONSTRUCTION PHASE.
- 19. THE CONTRACTOR WILL BE REIMBURSED BY THIS CONTRACT TO THE EXACT AMOUNT OF MONEY AS BILLED BY COM-ED FOR THEIR SERVICES. AND NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY INCIDENTAL MATERIALS AND LABOR REQUIRED TO FULFILL THE REQUIREMENTS AS SHOWN ON THE PLANS AND SPECIFIED HEREIN. SEE SECTION 109.05 *STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION*.
- 20. ALL ELECTRICAL DEVICES AND MATERIALS SHALL BE U/L LISTED WHERE APPLICABLE.
- 21. CONTRACTOR IS RESPONSIBLE FOR DECOMMISSIONING EXISTING ISOLATED INTERSECTION LIGHTING PER DIRECTIONS OF THESE PLANS AND SHALL BE REMOVED IN A PROFESSIONAL WORKMANSHIP LIKE MANNER.
- 22. CONTACT JULIE AT 1-800-892-0123 FOR UTILITY LOCATES PRIOR TO BEGINNING AND EXCAVATION WORK, WORK PROACTIVELY WITH UTILITY COMPANIES FOR THE PURPOSE OF DAMAGE PREVENTION.
- 23. ALL POLES AND MAST ARMS WILL BE SUPPLIED FROM IDOT STATE STOCK UNLESS NOTED OTHERWISE.
- 24. ALL POLES SHALL BE POSITIONED 2 FT. OFFSET FROM BACK OF THE CURB UNLESS NOTED OTHERWISE.
- 25. COORDINATE WITH TRAFFIC SIGNAL MODERNIZATION PLANS FOR EXACT LOCATIONS OF COMBINATION POLES. COMBINATION POLES ARE IN TRAFFIC SIGNAL MODERNIZATION PAY ITEMS, LUMINAIRES ARE IN PROPOSED LIGHTING PAY ITEMS.

LEGEND

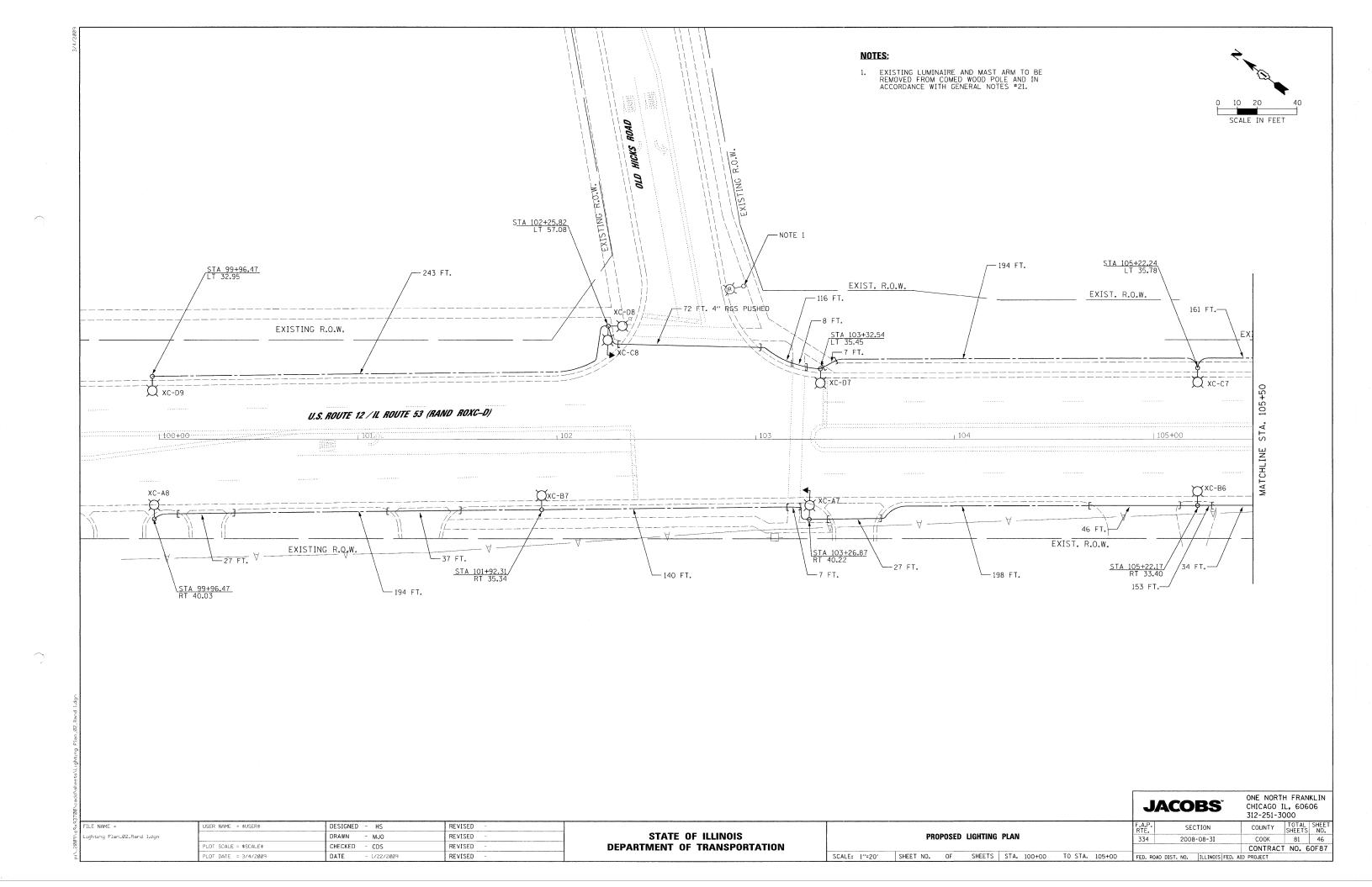
PROPOSED	EXISTING	
	—— – Е. ——	UNIT DUCT. 600V, 3-1/C NO.2, 1/C NO.4 GROUND (EPR-TYPE RHW), 1-1/2" DIA, POLYETHYLENE UNLESS OTHERWISE NOTED IN DRAWINGS.
[[3" RGS PUSHED CONDUIT UNLESS NOTED OTHERWISE.
	E	EXPOSED CONDUIT. SIZE AS INDICATED.
Ŕ	\boxtimes	LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE WITH SCADA.
A	Δ	UTILITY SERVICE CONNECTION, POLE MOUNTED TRANSFORMER 240/480 VOLT, SINGLE PHASE, 3 WIRE.
o-¤	0— <u>(</u> E)	ALUMINUM LIGHT POLE. 47.5' MOUNTING HEIGHT WITH 12' MAST ARM AND 310 W H.P.S M-C-III 240 VOLTS LUMINAIRE AND HELIX FOUNDATION. SEE IDOT STANDARD DETAIL BE-400.
	0— ` R`	EXISTING LIGHT POLE TO BE REMOVED.
- □	<u>○</u>	COMBINATION LIGHT POLE. 45' MOUNTING HEIGHT WITH 15' MAST ARM AND 310 W H.P.S M-C-III 240 VOLTS LUMINAIRE.
<u>, ¤</u>	E	COMBINATION LIGHT POLE ANGLED. 45' MOUNTING HEIGHT WITH 15' MAST ARM AND 310 W H.P.S M-C-III 240 VOLTS LUMINAIRE.
Ļ	<u> </u>	GROUND ROD, 5/8" DIA. × 10 FT.
H	Ή _E	ELECTRICAL HANDHOLE.
ф	ф	UTILITY POLE.
STA XXXX+X.XX RT XX.XX		STATION REFERENCE: STA=STATION NUMBER, RT (LT)=RIGHT (LEFT) OFFSET FROM STATION CENTER LINE.
	A	UTILITY AERIAL LINES.
		RIGHT OF WAY LINE.

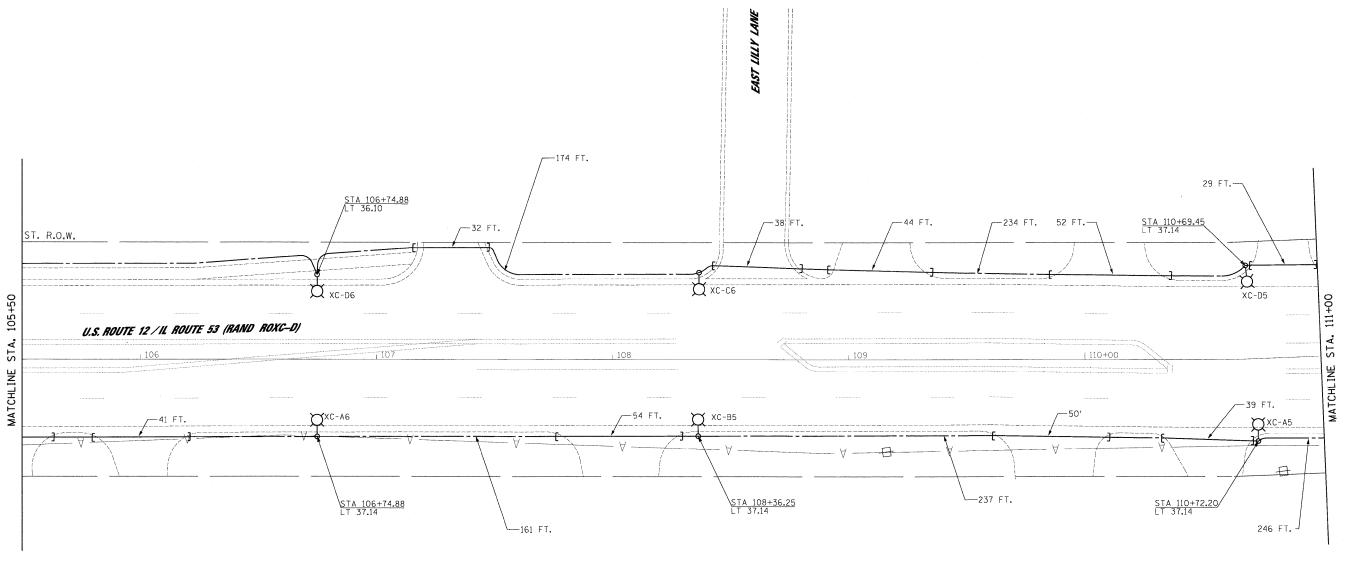
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN GENERAL NOTES, LEGEND | CHICAGO IL. 60606 | 312-251-3000 | TOTAL SHEE | SHEETS | NO. | SHEETS | SHEETS | NO. | SHEETS | SHEETS

ONE NORTH FRANKLIN

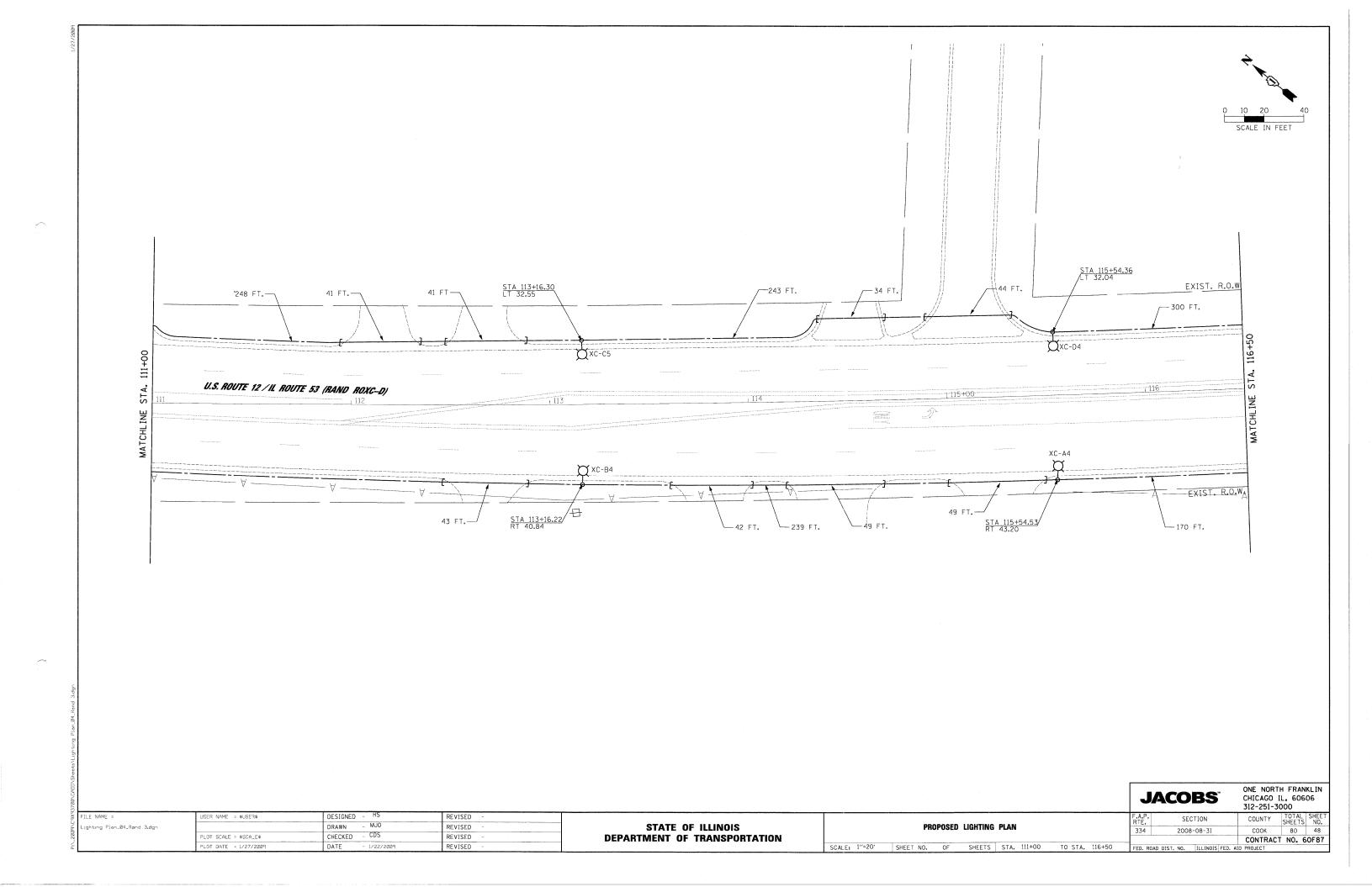
SCALE: N.T.S. SHEET NO. OF SHEETS STA. - TO STA. -

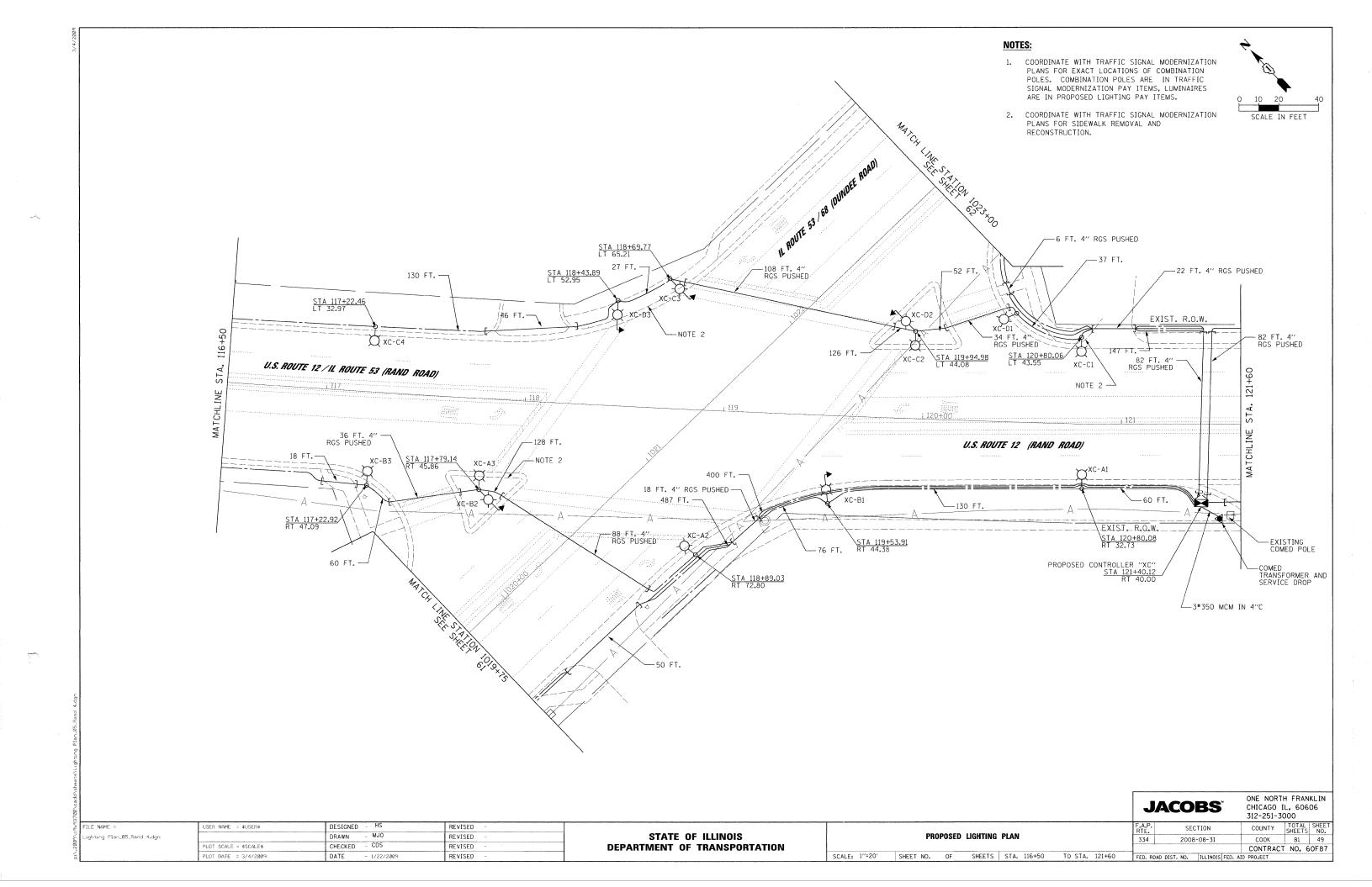


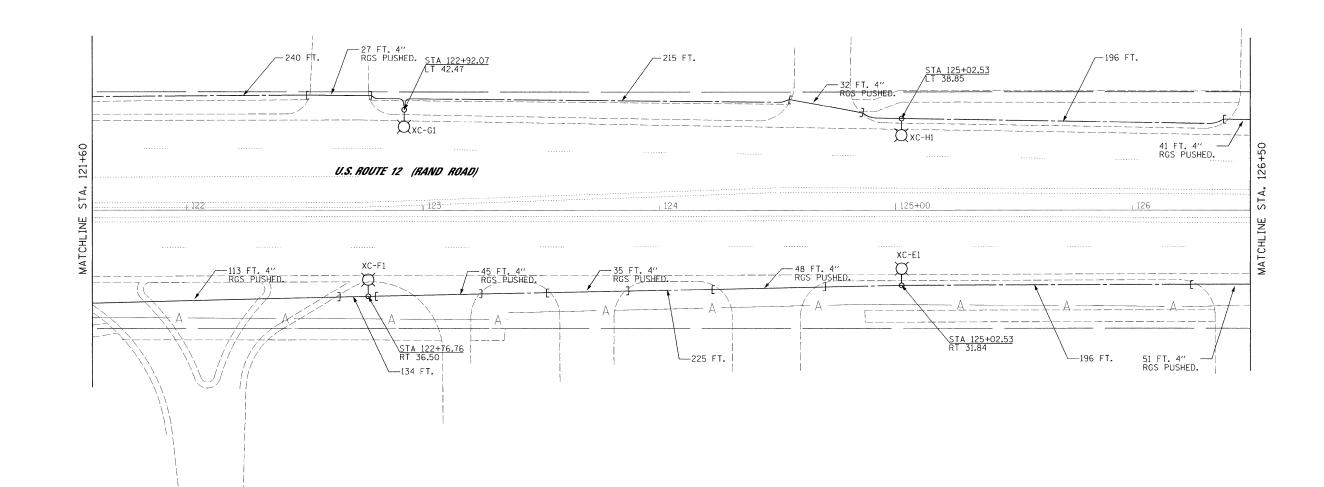


						JACOBS*	ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000
ILE NAME =	USER NAME = \$USER\$	DESIGNED - HS	REVISED -			F.A.P. SECTION	COUNTY TOTAL SHEET SHEET NO.
ighting Plan_03_Rand 2.dgn		DRAWN - MJO	REVISED -	STATE OF ILLINOIS	PROPOSED LIGHTING PLAN	334 2008-08-3I	COOK 80 47
	PLOT SCALE = \$SCALE\$	CHECKED - CDS	REVISED -	DEPARTMENT OF TRANSPORTATION		200 00 31	CONTRACT NO. 60F87
	PLOT DATE = 1/27/2009	DATE - 1/22/2009	REVISED -		SCALE: 1"=20" SHEET NO. OF SHEETS STA. 105+50 TO STA. 111+00	FED. ROAD DIST. NO. ILLINOIS FED.	

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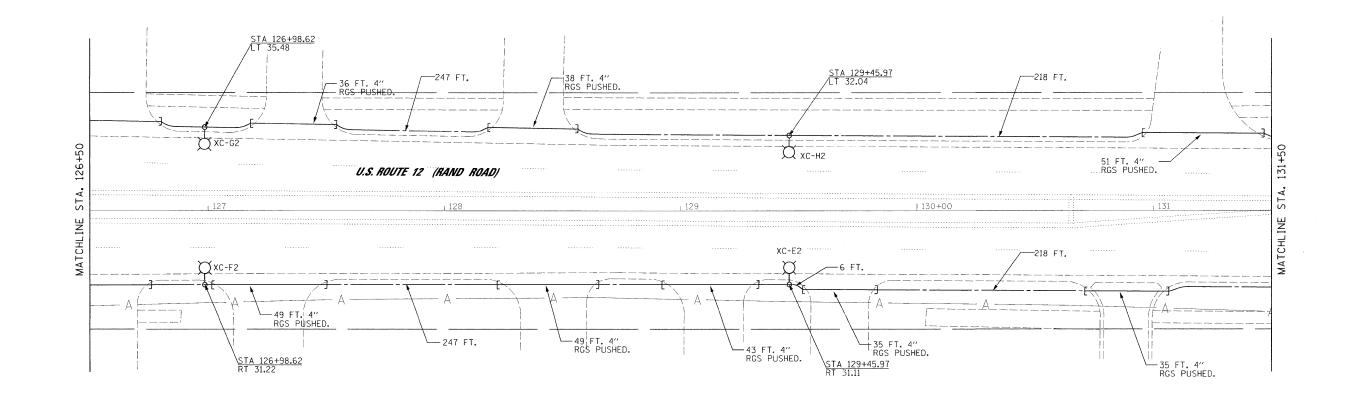


	J	ACOI	BS [*]		ONE NORTI CHICAGO I 312-251-30	L. 606	
	F.A.P. RTE.	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	334	2008-	08-3I		COOK	81	50
					CONTRACT	NO. 6	OF87
TA. 126+50	FED. ROA	AD DIST. NO.	ILLINOIS	FED. AID	PROJECT		

9×937	FILE NAME =	USER NAME = \$USER\$	DESIGNED - HS	REVISED -
39\0	Lighting Plan_06_Rand 5.dgn		DRAWN - MJO	REVISED -
-206		PLOT SCALE = #SCALE#	CHECKED - CDS	REVISED -
ä		PLOT DATE = 3/4/2009	DATE ~ 1/22/2009	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN SCALE: 1"=20' SHEET NO. OF SHEETS STA. 121+60 TO STA

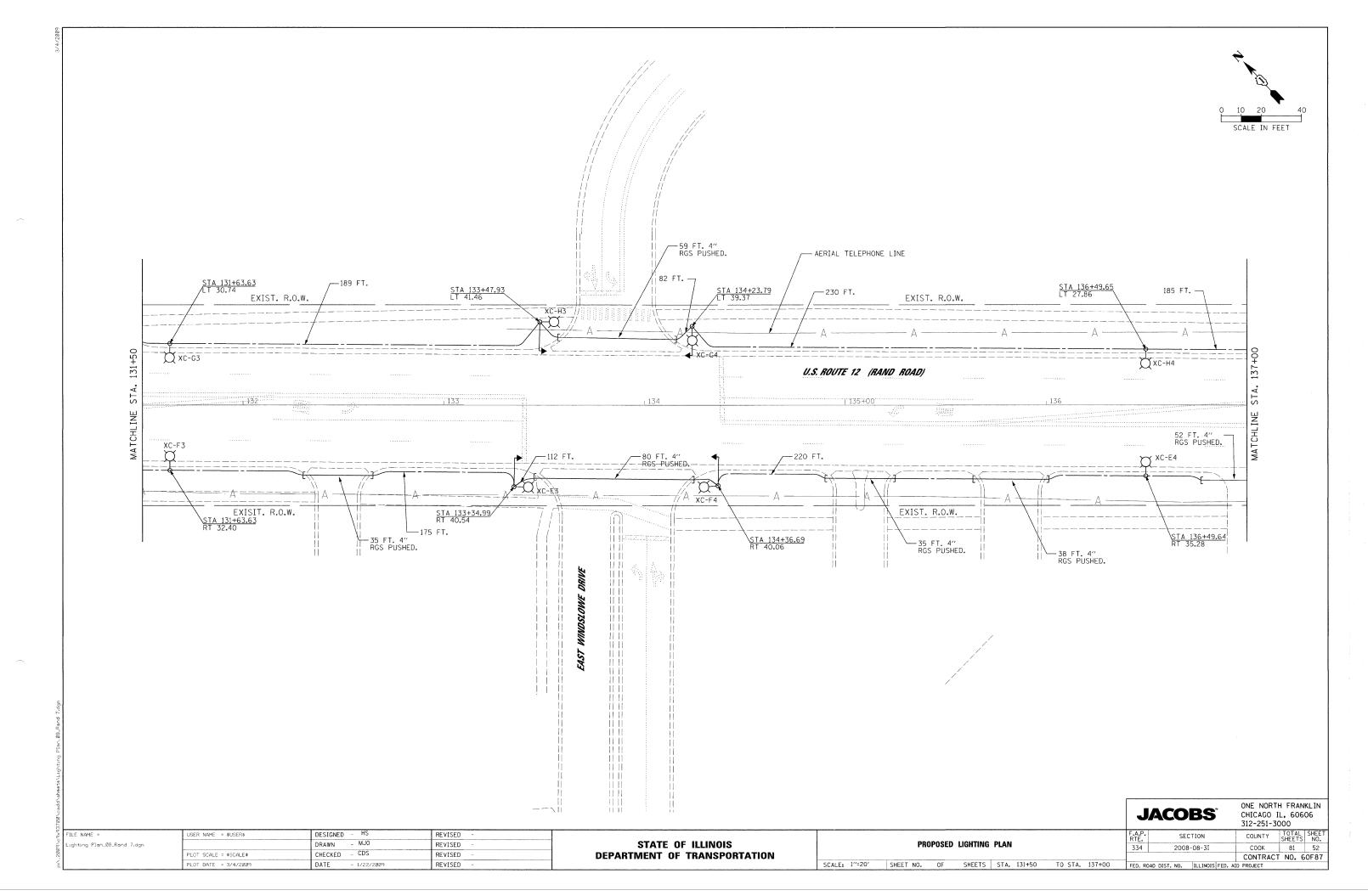


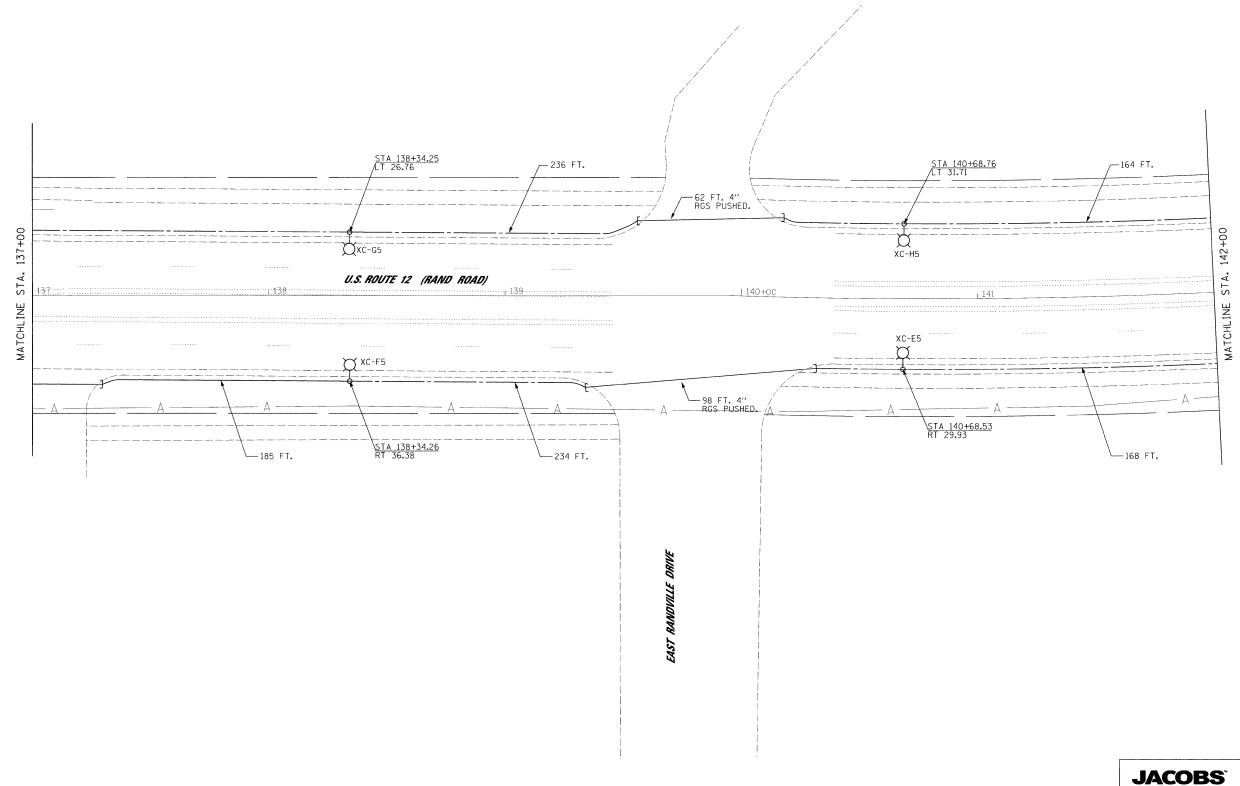
ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000 **JACOBS**

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	PLOT DATE = 3/4/2009	DATE ~ 1/22/2009	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN SCALE: 1"=20' SHEET NO. OF SHEETS STA. 126+50 TO STA. 131+50



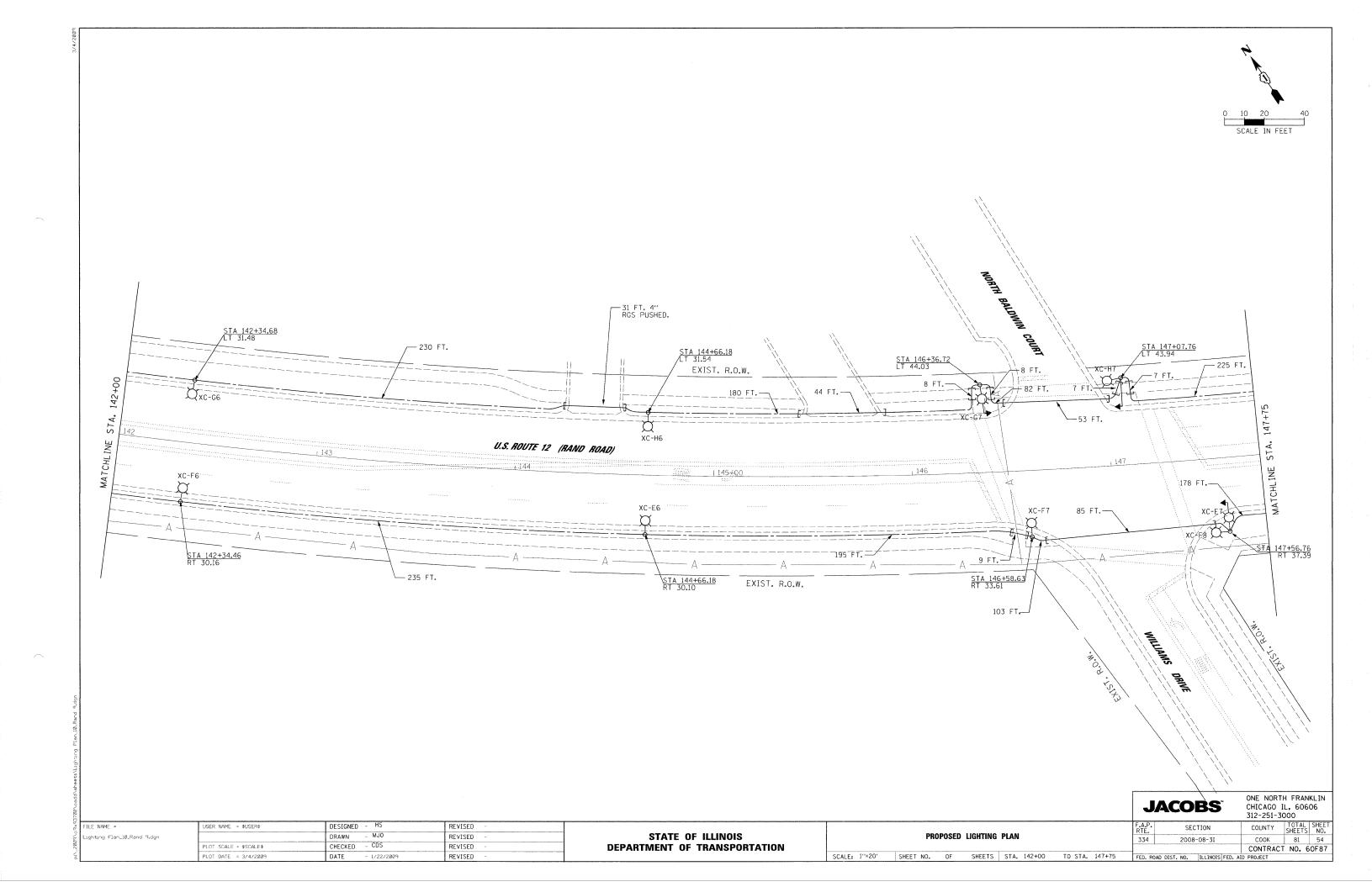


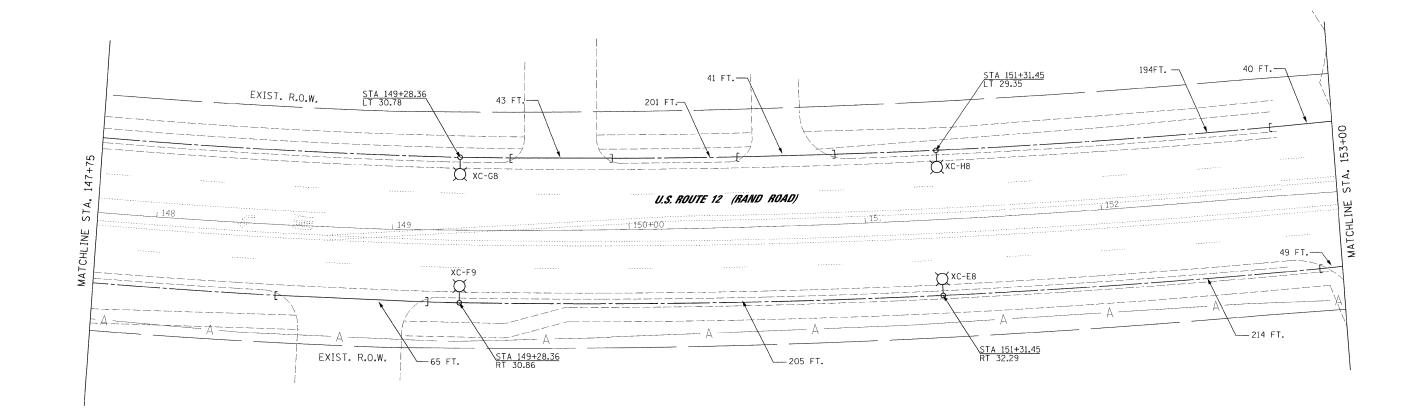
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN SCALE: 1"=20' SHEET NO. OF SHEETS STA. 137+00 TO STA. 142+00

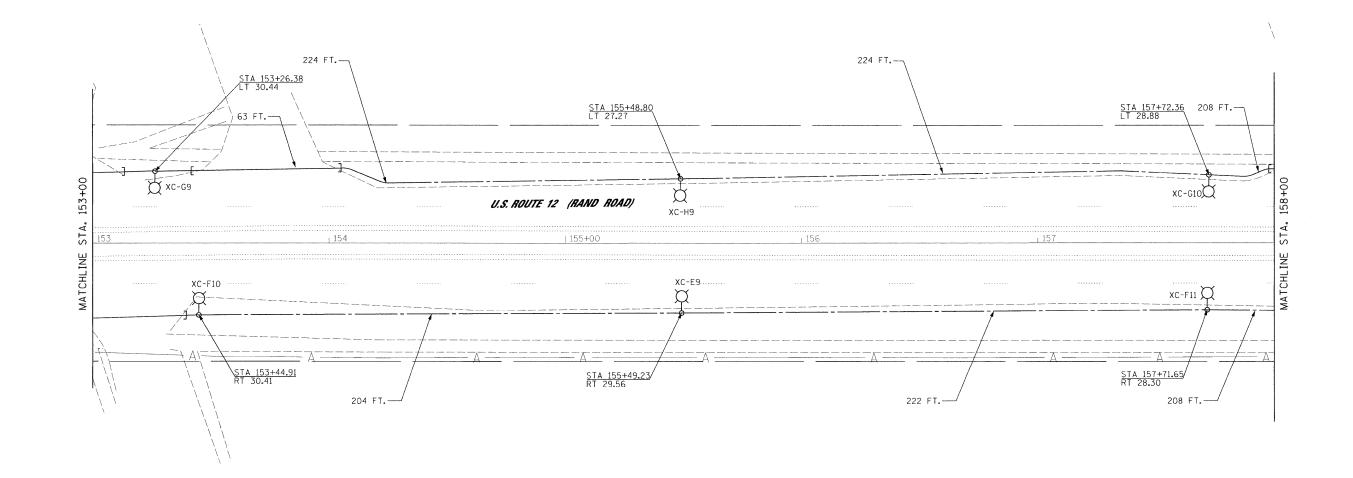
ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000





ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000 **JACOBS** FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED MJO STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION REVISED PROPOSED LIGHTING PLAN CDS PLOT SCALE = #SCALE# CHECKED REVISED PLOT DATE = 3/4/2009 SCALE: 1"=20" SHEET NO. OF SHEETS STA. 147+75 TO STA. 153+00 DATE - 1/22/2009 REVISED

id/sheets/Lighting Pian_II_Rand 10.dgn



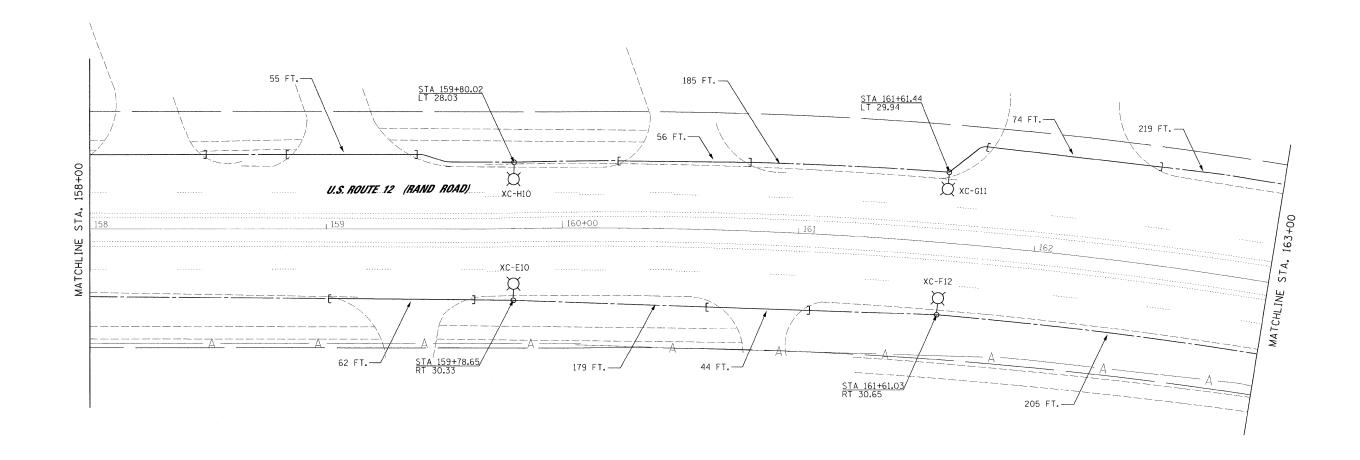
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 PROPOSED
 LIGHTING
 PLAN

 SCALE: 1"=20"
 SHEET NO. OF
 SHEETS
 STA. 153+00
 TO STA. 158+00

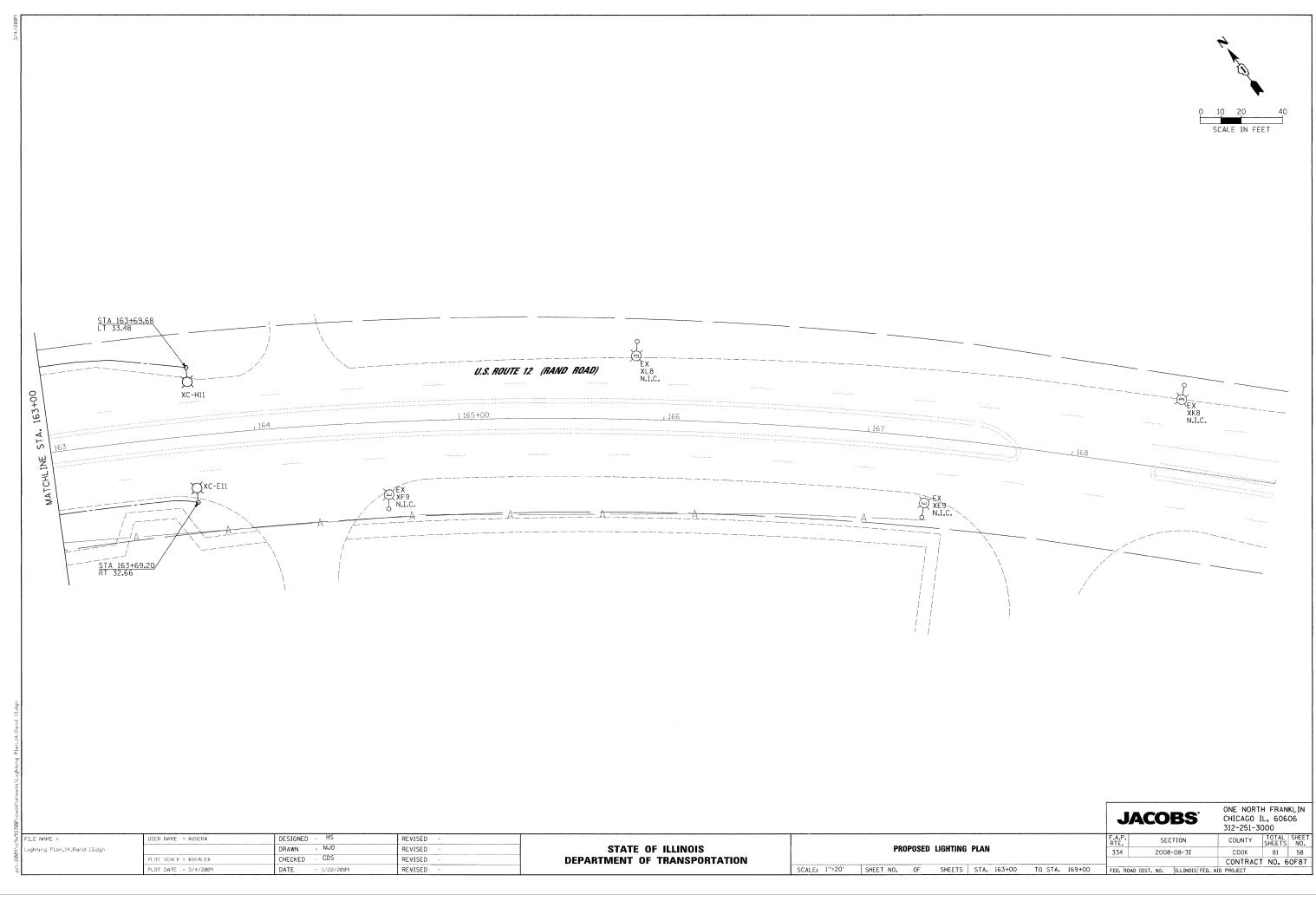
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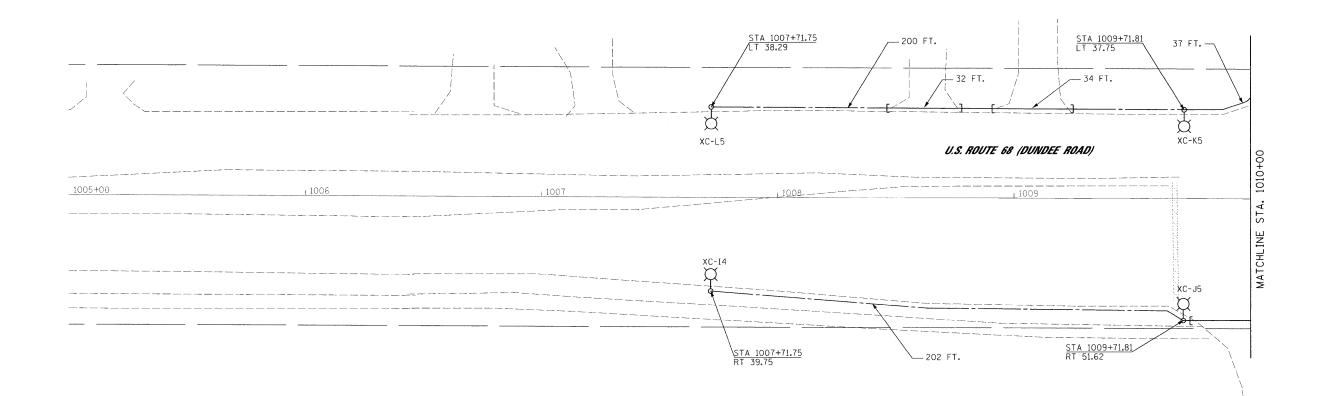


JACOBS*

ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000

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PLOT DATE = 3/4/2009	DATE - 1/22/2009	REVISED -
	PLOT SCALE = #SCALE#	DRAWN - MJO

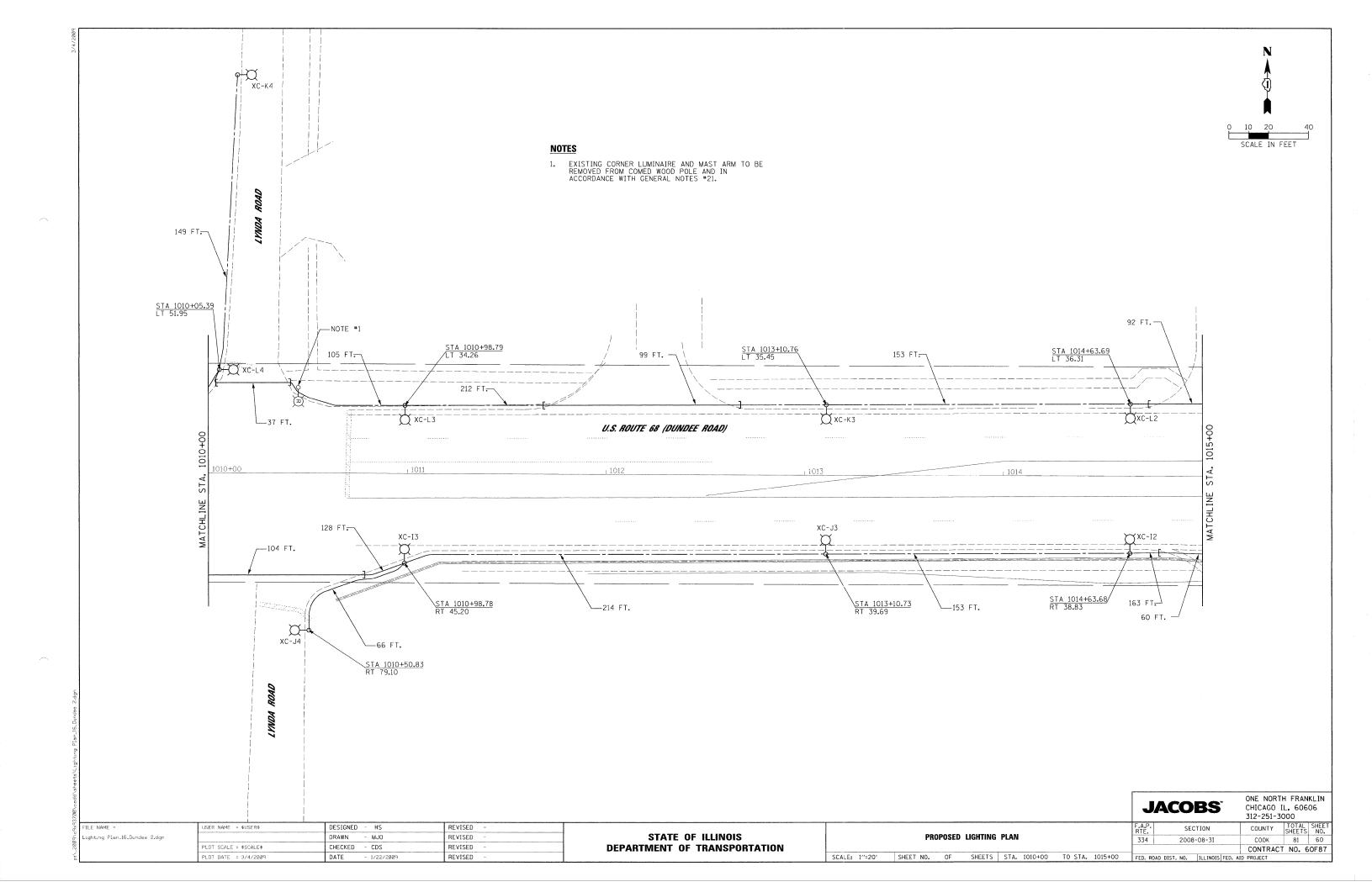




ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000 **JACOBS**

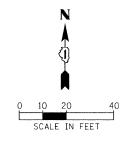
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ξ×	FILE NAME =	USER NAME = \$USER\$	DESIGNED - HS	REVISED -	_
39	Lighting Flan_15_Dundee 1.dgn		DRAWN - MJO	REVISED -	
-200	Lighting Flan_15_Dundee 1.dgn	PLOT SCALE = \$SCALE\$	CHECKED - CDS	REVISED -	
ä		PLOT DATE = 3/4/2009	DATE - 1/22/2009	REVISED -	L

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

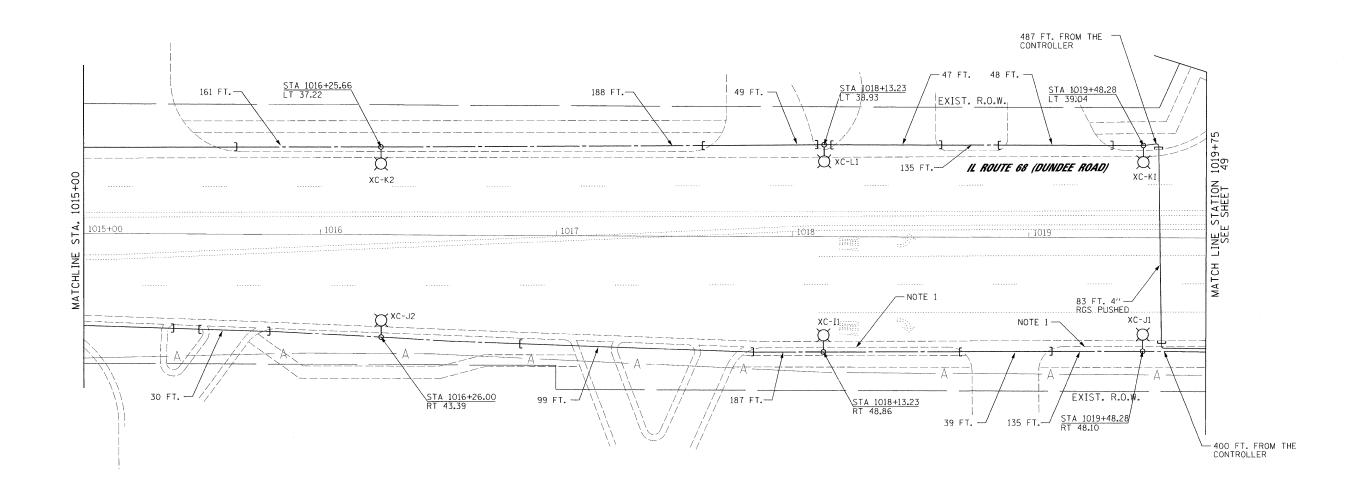


NOTES:

 COORDINATE WITH TRAFFIC SIGNAL MODERNIZATION PLANS FOR SIDEWALK REMOVAL AND PC CONC SIDEWALK 5 INCH.



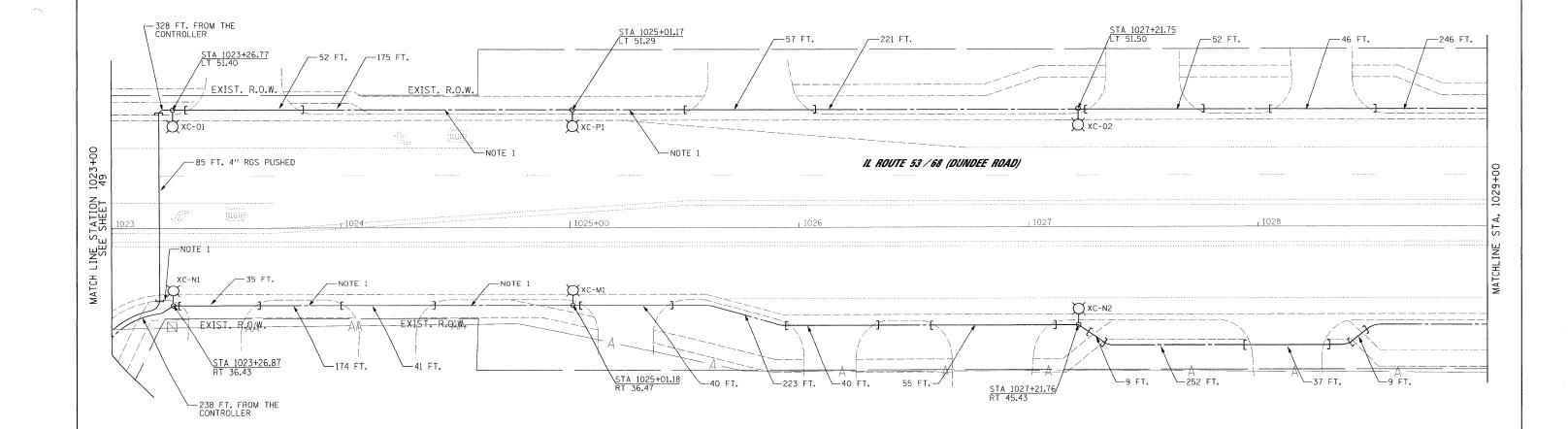
ONE NORTH FRANKLIN



370000							JACOBS	CHICAGO IL, 60606 312-251-3000
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£ Lighting	Plan_17_Dundee 3.dgn		DRAWN - MJO	REVISED -	STATE OF ILLINOIS	PROPOSED LIGHTING PLAN	334 2008-08-3I	COOK 81 61
780		PLOT SCALE = \$SCALE\$	CHECKED - CDS	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60F87
ä		PLOT DATE = 3/4/2009	DATE - 1/22/2009	REVISED -		SCALE: 1"=20" SHEET NO. OF SHEETS STA, 1015+00 TO STA, 1020+00	FED. ROAD DIST. NO. ILLINOIS FED.	. AID PROJECT

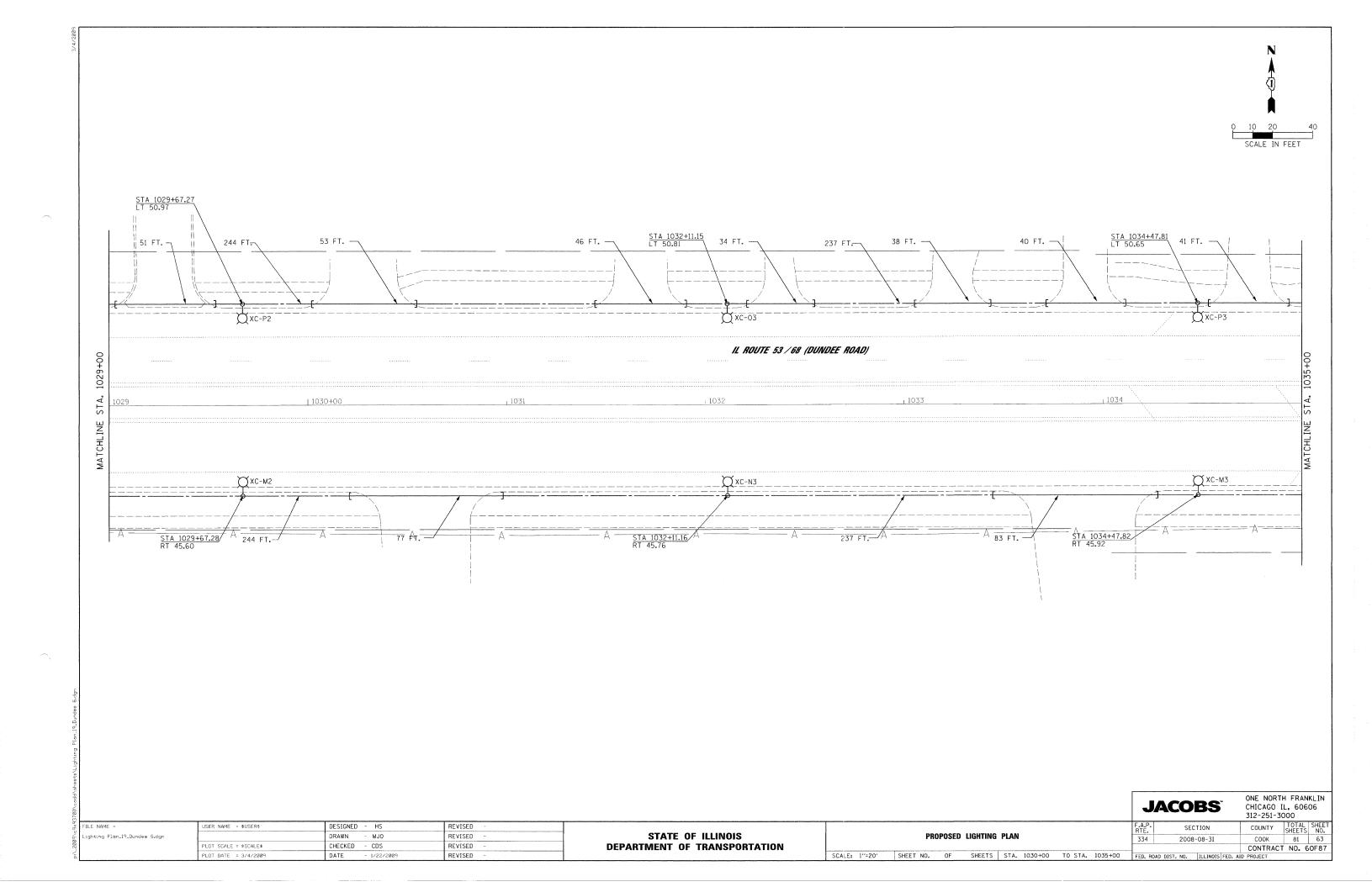
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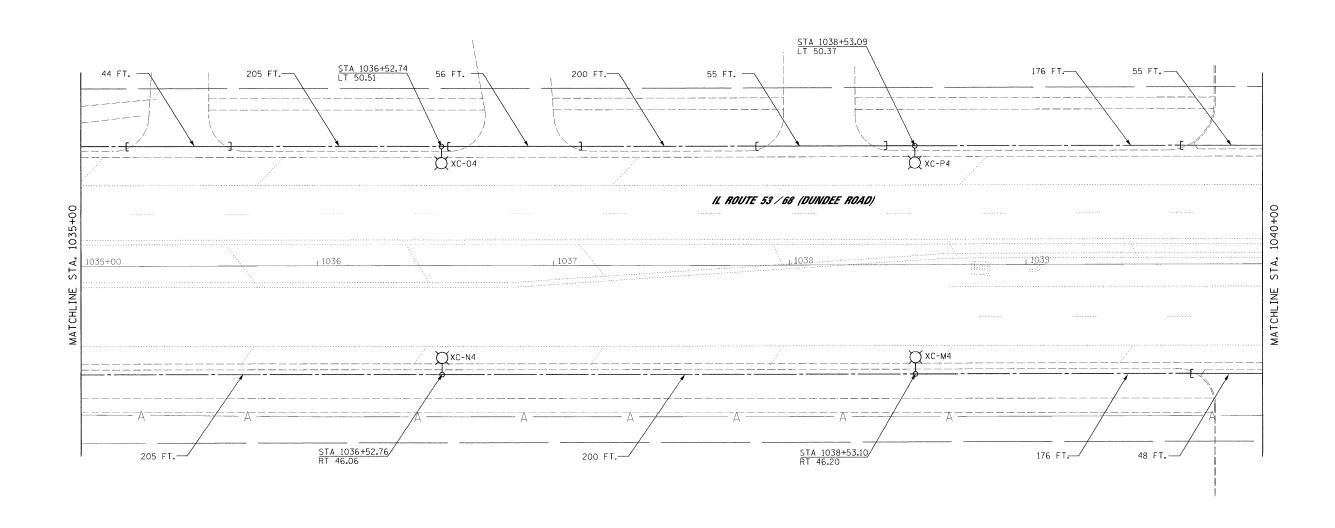
COORDINATE WITH TRAFFIC SIGNAL MODERNIZATION PLANS FOR SIDEWALK REMOVAL AND PC CONC SIDEWALK 5 INCH.



	JA	COBS	ONE NORT CHICAGO 312-251-3	IL. 606	
	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	334	2008-08-3I	COOK	81	62
			CONTRAC	T NO. 6	OF87
7400	FED 0010				

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	FILE NAME =	USER NAME = \$USER\$	DESIGNED - HS	REVISED -
	Lighting Flan_18_Dundee 5.dgn		DRAWN - MJO	REVISED -
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		PLOT DATE = 3/4/2009	DATE - 1/22/2009	REVISED -





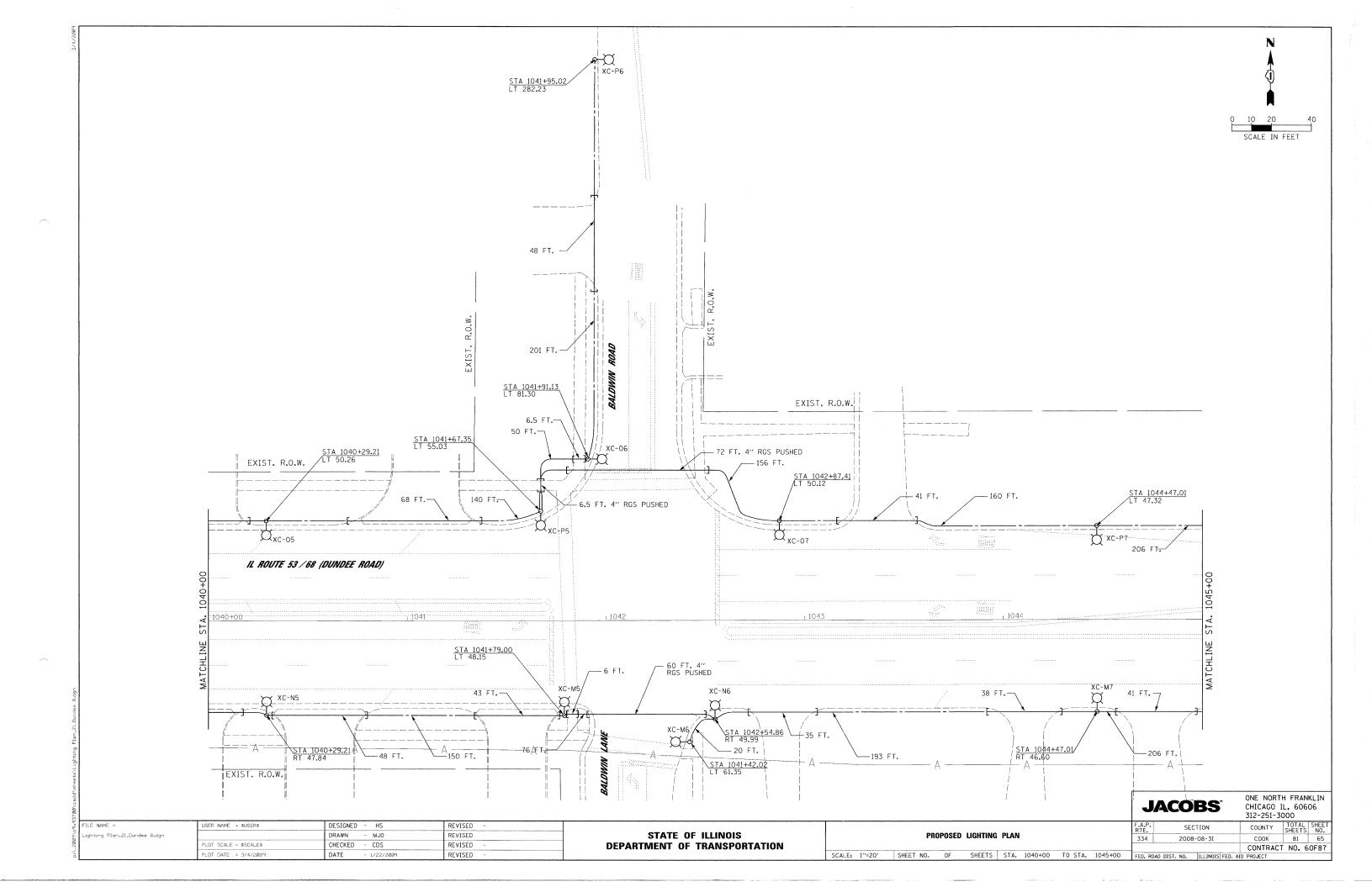
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	F.A.P. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	334	2008	-08-3I		соок	81	64
					CONTRACT	NO. 6	OF87
0+00	FED. BC	AD DIST NO	THE TWO IS	FED AID	PROJECT		

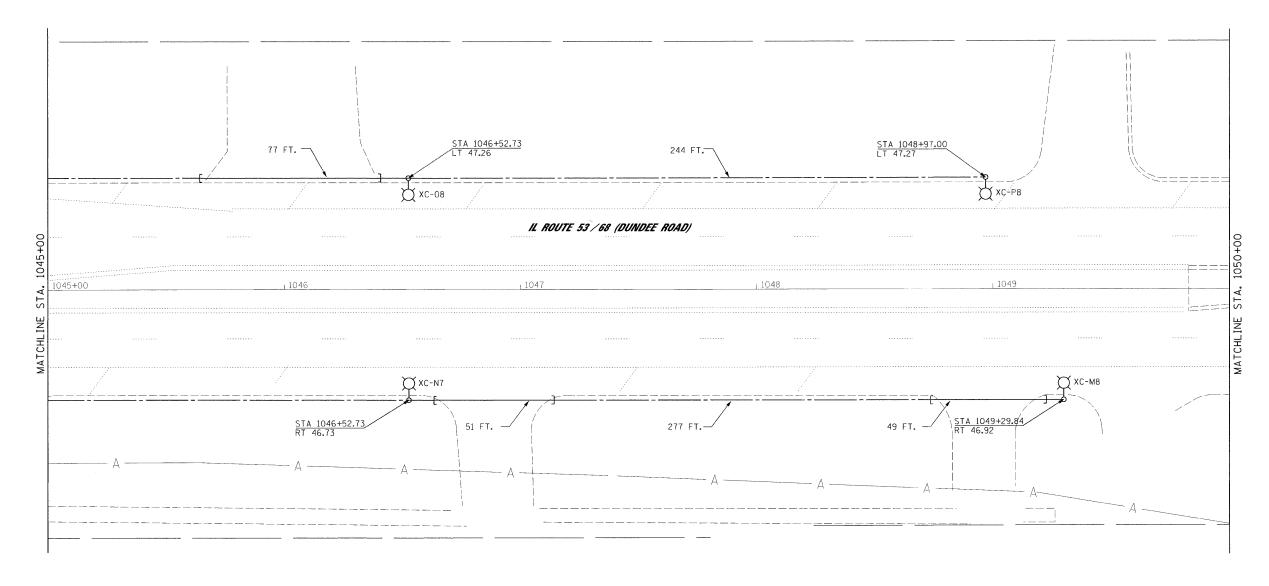
ONE NORTH FRANKLIN

65				
ρ, Υ	FILE NAME =	USER NAME = \$USER\$	DESIGNED - HS	REVISED -
99	Lighting Plan_20_Dundee 7.dgn		DRAWN - MJO	REVISED -
206	Lighting Plan_20_Dundee 7.dgn	PLOT SCALE = \$SCALE\$	CHECKED - CDS	REVISED -
ä		PLOT DATE ≈ 3/4/2009	DATE - 1/22/2009	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

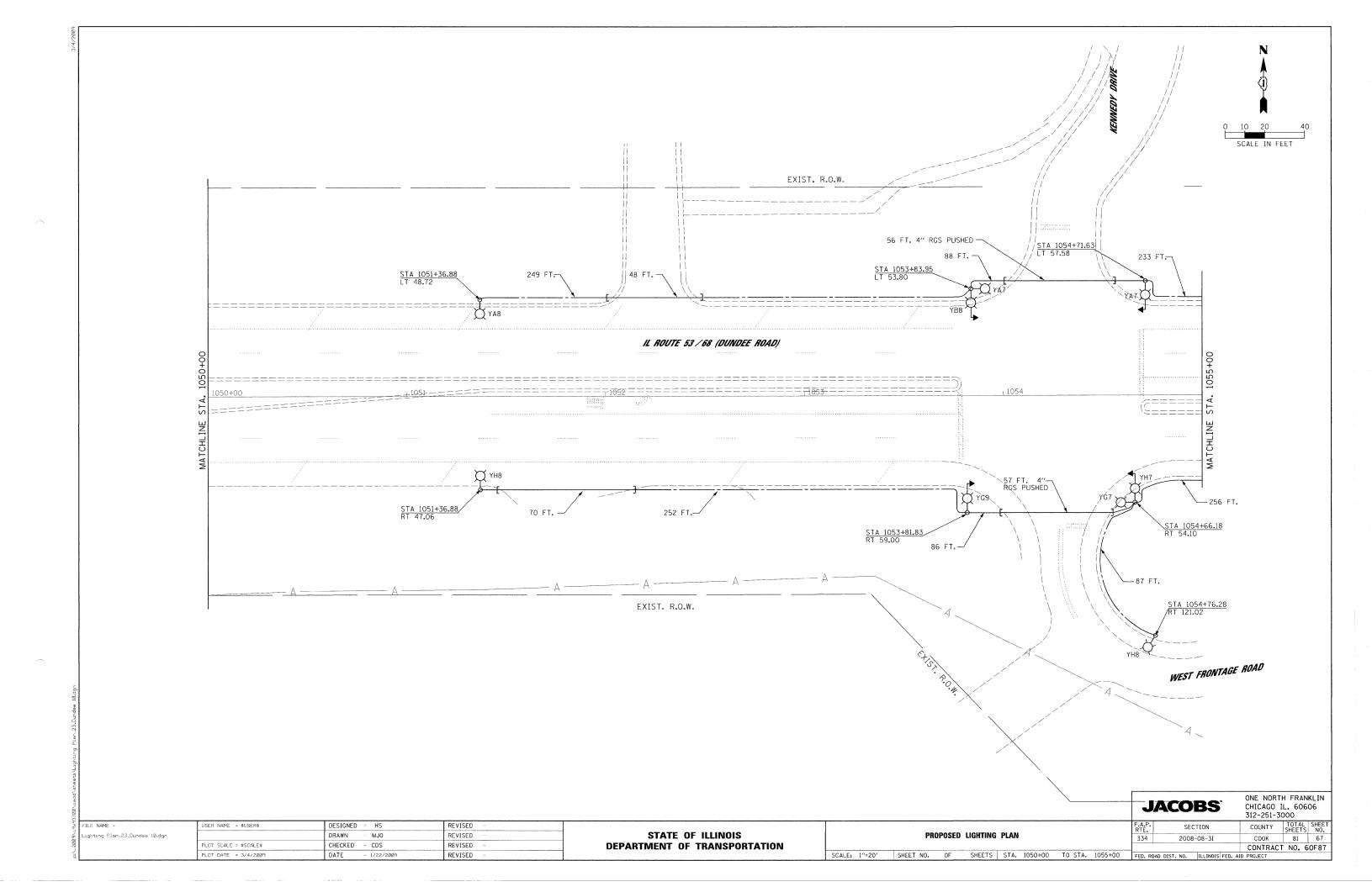
PROPOSED LIGHTING PLAN SCALE: 1"=20' SHEET NO. OF SHEETS STA. 1035+00 TO STA. 1040

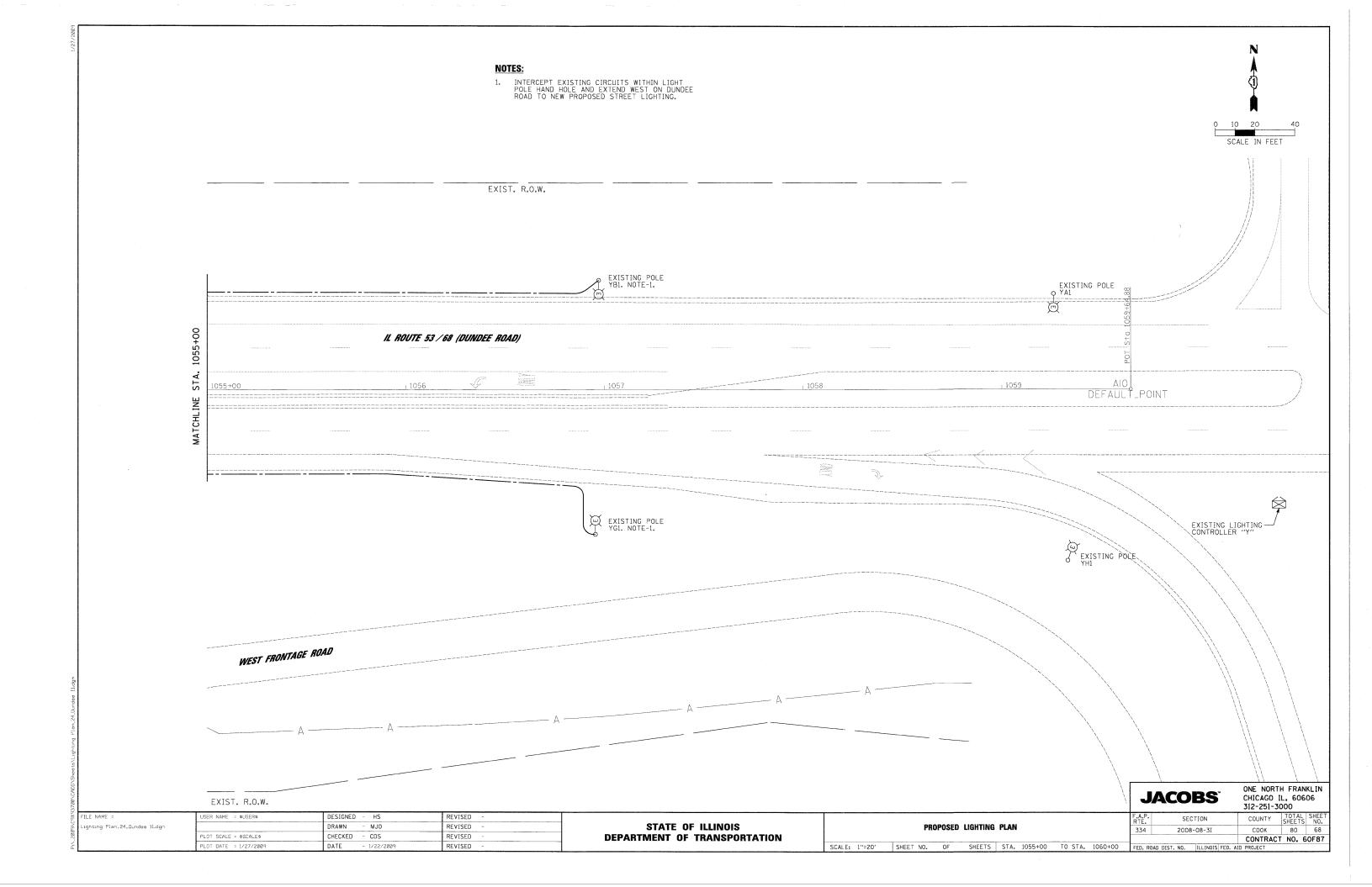


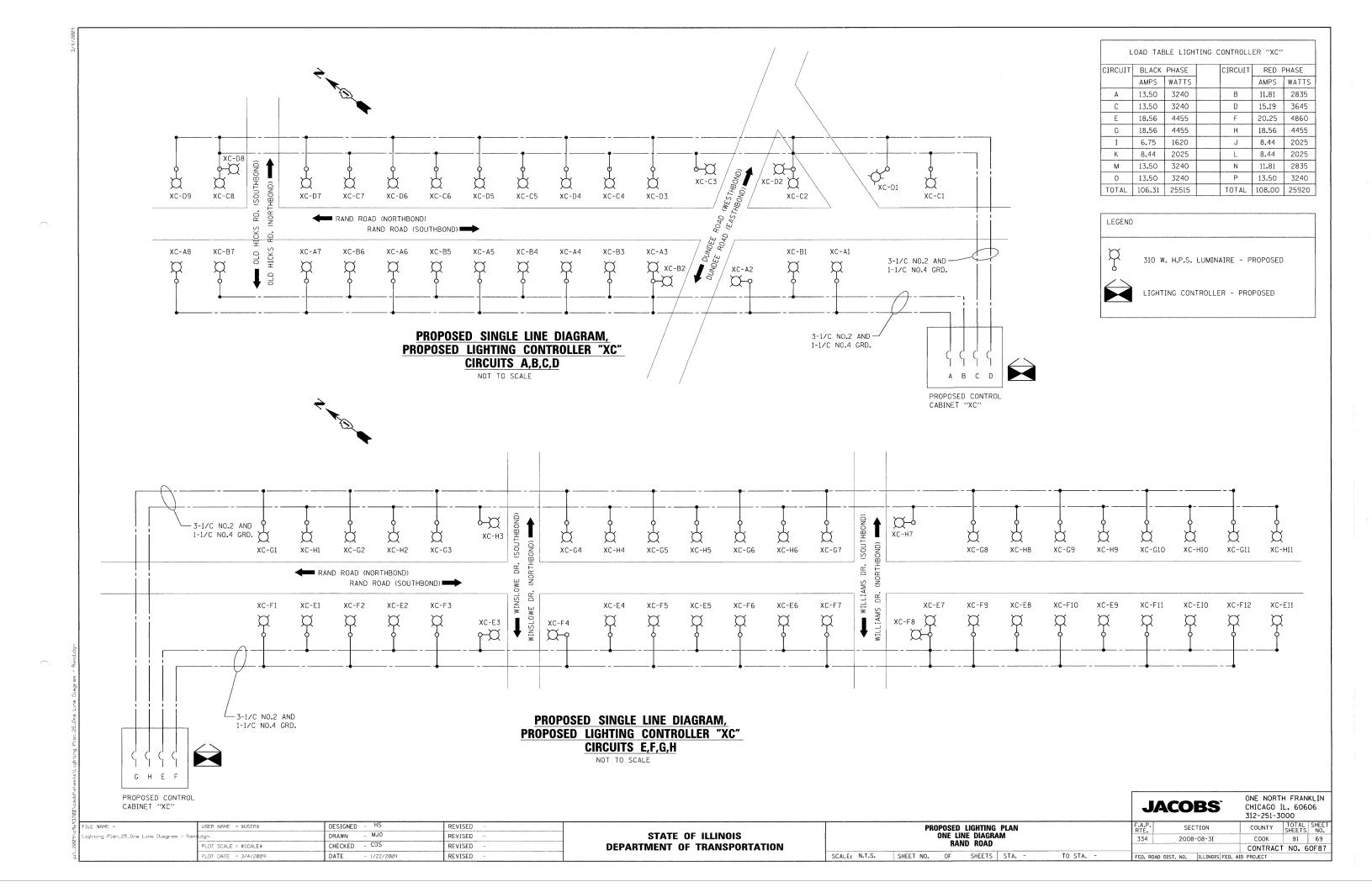


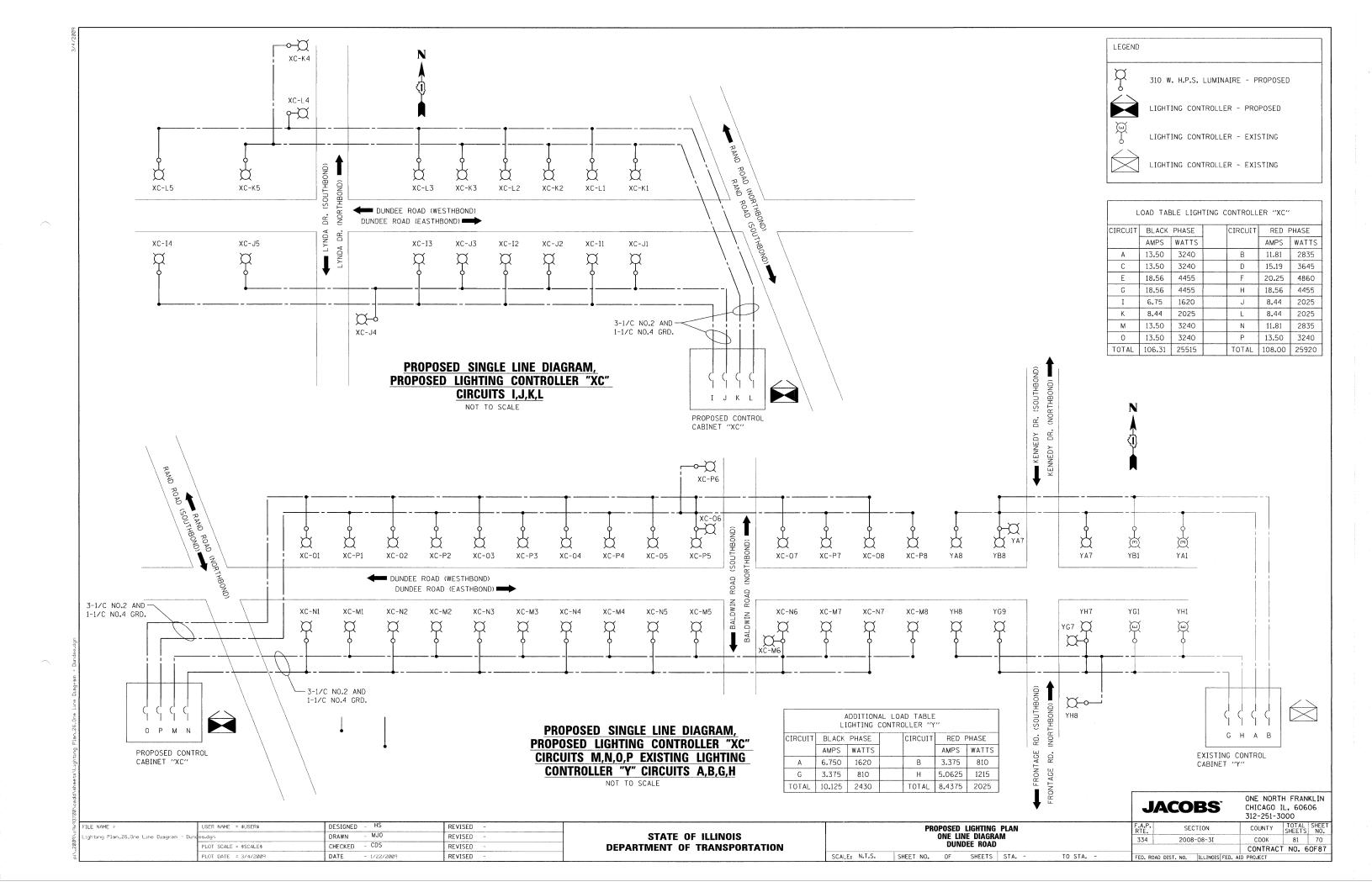
3700\000							JACOBS	CHICAGO IL, 60606 312-251-3000
σ×	FILE NAME =	USER NAME = \$USER\$	DESIGNED - HS	REVISED -			F.A.P. SECTION	COUNTY TOTAL SHEET
6	Lighting Plan_22_Dundee 9.dgn		DRAWN - MJO	REVISED -	STATE OF ILLINOIS	PROPOSED LIGHTING PLAN	334 2008-08-3I	COOK 81 66
-208		PLOT SCALE = \$SCALE\$	CHECKED - CDS	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60F87
ä		PLOT DATE = 3/4/2009	DATE - 1/22/2009	REVISED -		SCALE: 1"=20" SHEET NO. OF SHEETS STA. 1045+00 TO STA. 1050+00	FED. ROAD DIST. NO. ILLINOIS FED	

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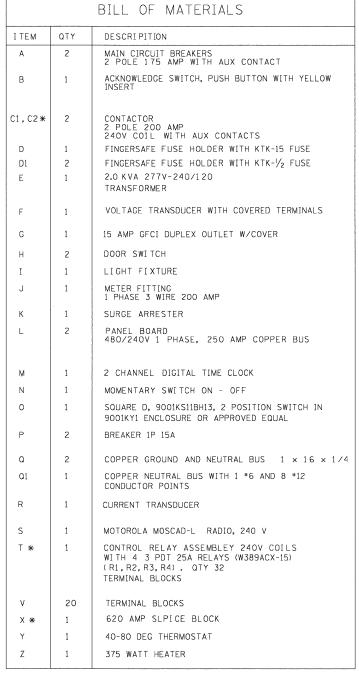








F.A.P. RTE.	SECTION	(COUNTY		TOTAL SHEETS	SHEET NO.
334	2008-08-3	I	соок		80	71
STA.		ТО	STA.			
FED. ROA	AD DIST. NO.	ILL INOIS	FED.	AID	PROJECT	



* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

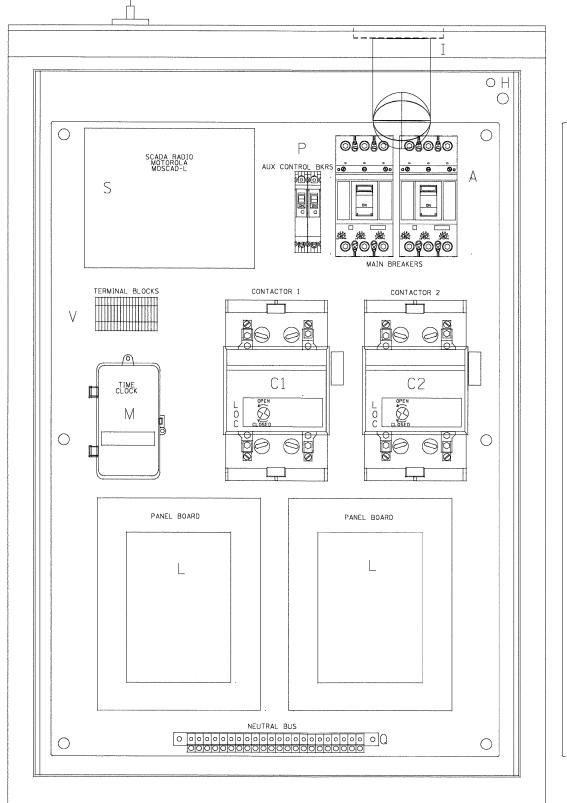
REVISIONS	·	ILLINOIS DEPARTM	ENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEL ANTIVI	ENT OF TRANSPORTATION
R. TOMSONS	8/04		
		LIGHTING CONTR	OLLER, RADIO CONTROL
		DUPLEX T	YPE WITH SCADA
		BE-505	5 SHT 1 OF 4
	+ -	SCALE: NONE	DRAWN BY CADD
		DATE:2/15/2006	CHECKED BY

COUNTY TOTAL SHEE

CONTRACT NO. 60F87

соок

LIGHTING CONTROLLER, RADIO CONTROL SECTION 2008-08-31 BE-205 SHT 1 OF 4 TO STA. SCALE: N.T.S. SHEET NO. OF SHEETS STA.



SCADA RADIO ANTENNA

 \bigcirc \bigcirc X SERVICE CABLE TERMINAL BLOCK 0 0 0 0 0 0 0 0 SURGE ARRESTOR 000000 GFCI DUPLEX OUTLET NEUTRAL CURRENT TRANS. VOLTAGE TRANSDUCER R FUSE HOLDER \bigcirc \bigcirc FUSE HOLDER TRANSFORMER 0 0 120 V NUETRAL BUS Q1 HEATER \bigcirc 000000000

RIGHT SIDE PANEL

 \bigcirc \bigcirc CONTROL RELAYS ASSEMBLY GROUND BUS \bigcirc \bigcirc

 \bigcirc

THERMOSTAT

N

ON - OFF

 \bigcirc

ACKNOWLEDGE B

0

AUTO - MAN

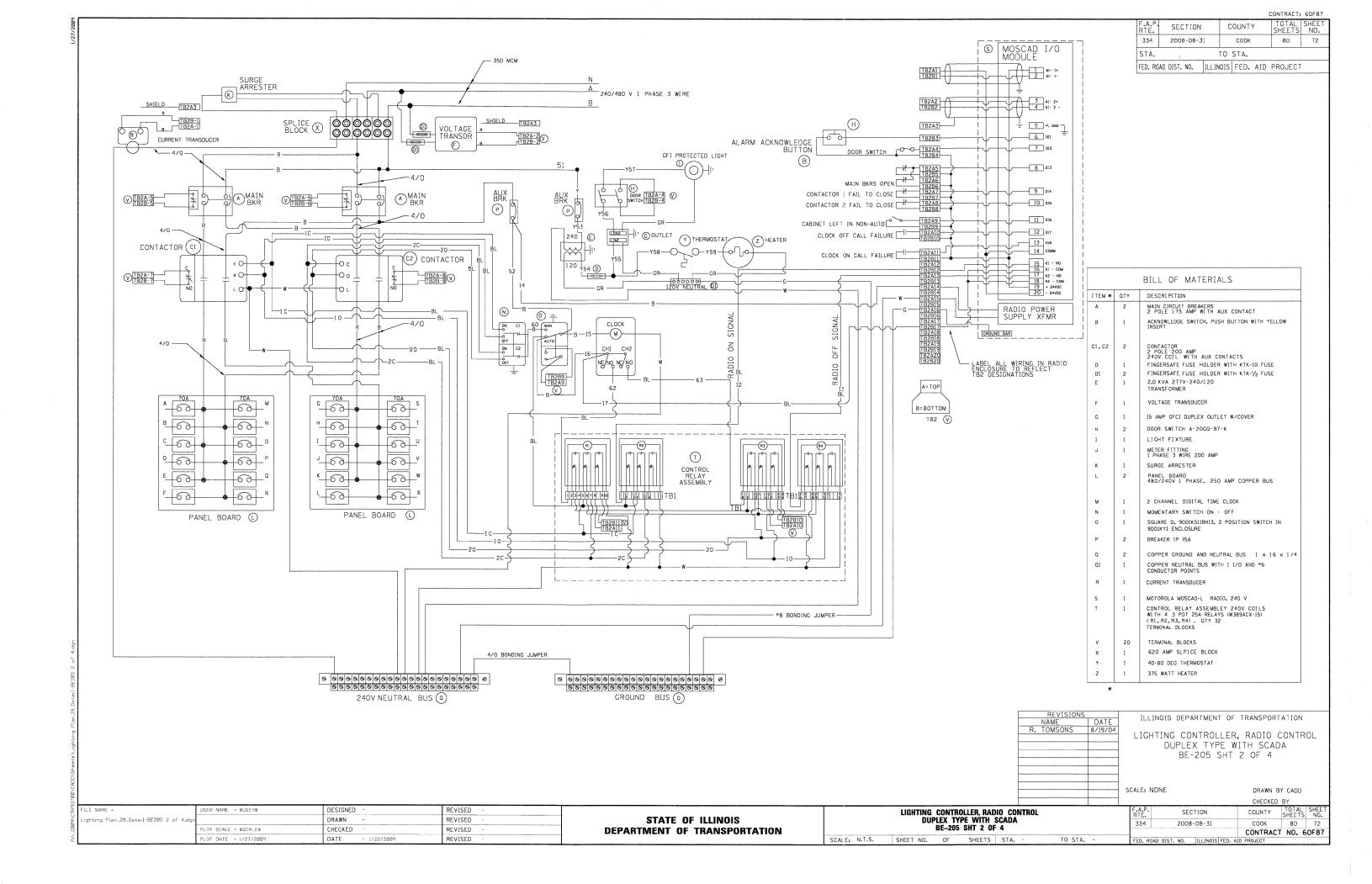
LEFT SIDE PANEL

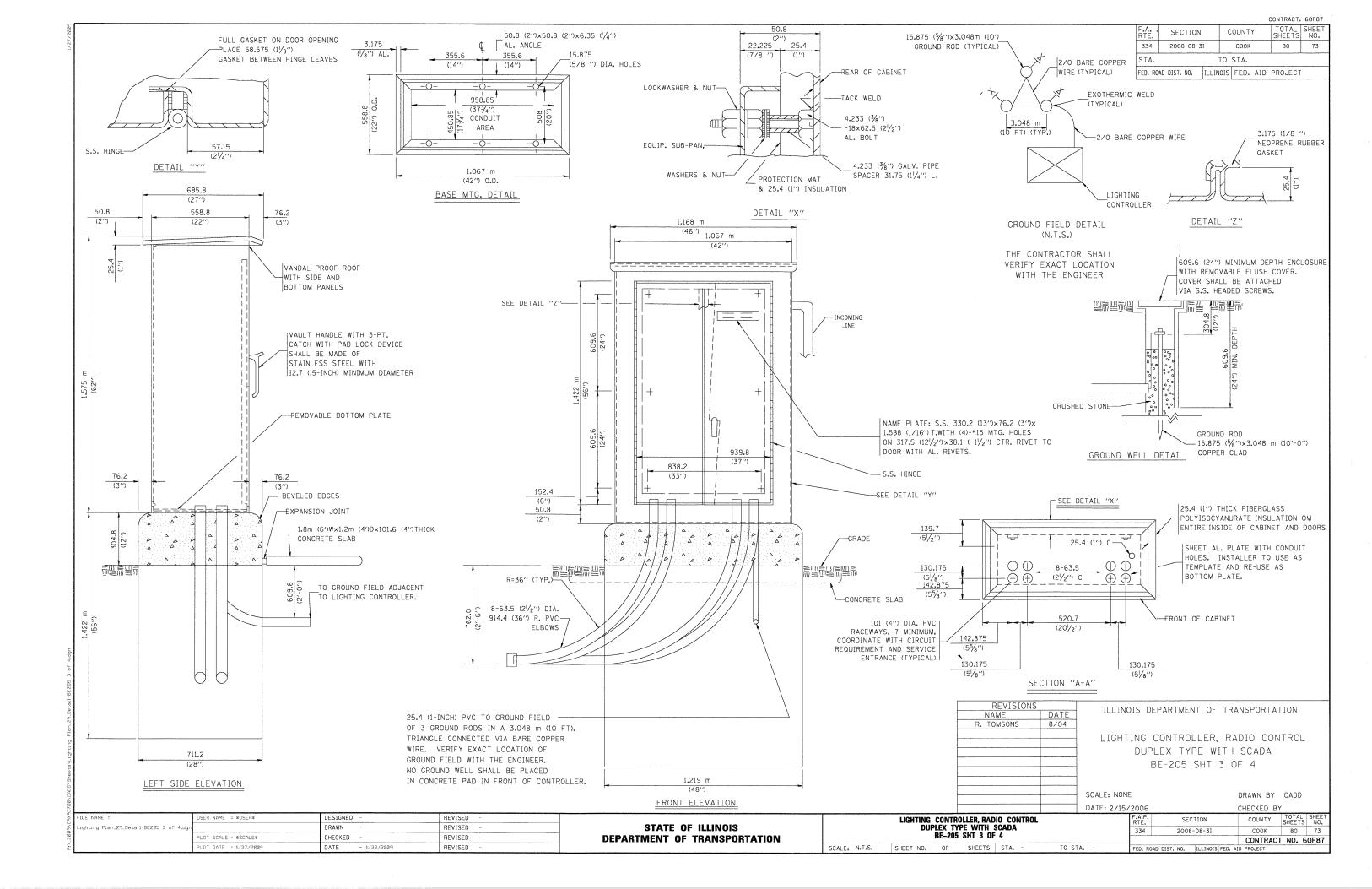
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DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS





F.A RTE.	SECTION			COUNTY		TOTAL SHEETS	SHEET NO.		
334		2008	8-08-3	I		COOK		80	74
STA.					ГО	STA.			
FED. ROAD DIST. NO. ILLIN				OIS	FED.	AID	PROJECT		

NOTES

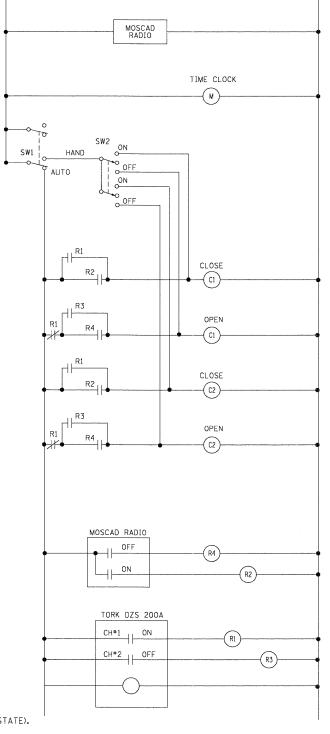
- 1. CABINET SHALL BE FABRICATED FROM 3.175 (0.125-INCH) SHEET ALUMINUM # 3003H14, FORMED AND ARC WELDED.
- 2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- 3. NAME PLATE SHALL HAVE ENGRAVED 19.05 (0.75-INCH) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- 4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- 5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- 6. NOT USED.
- 7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- 8. METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- 9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 3.175 (0.125-INCH) THICK GLASTIC INSULATION BACK PANEL.
- 10. ALL DEVICES SHALL BE FRONT REMOVABLE.
- 11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- 12. SET LATITUDE TO 42 DEGREES. SET CH.1 TO 25 MINUTES AFTER ASTRONOMICAL SUNSET, 40 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +20 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
- 13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
- 14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- 15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE
- 16. ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW.
- 17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- 18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

19. MOSCAD I/O WIRING SHALL BE:

DIGITAL INPUT (DI) WIRING SHALL BE #16 MTW PURPLE

ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.

- AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.
- 20. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE INDICATED.
- 21. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
- 22. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



CONTROL	CIPCLIT	LADDEB	10010	DIACRAM
CONTROL	CIRCUIT	LAUDER	LUGIC	DIAGRAM

	MOSCAD I/O ASS	GNMENTS
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	Analog input 1 (+)	CABINET NEUTRAL CURRENT
2	Analog înput 1 (-)	CABINET NEUTRAL CURRENT
3	Analog input 2 (+)	CABINET SERVICE VOLTAGE
4	Analog Input 2 (-)	CABINET SERVICE VOLTAGE
5	P. Ground	GROUND
6	Digital input 1	ALARM KNOWLEDGE
7	Digital input 2	DOOR OPEN
8	Digital input 3	MAIN(S) BREAKER OPEN
9	Digital input 4	CONTACTOR 1 OPEN
10	Digital input 5	CONTACTOR 2 OPEN
11	Digital input 6	CABINET IN NON-AUTO
12	Digital input 7	BACK-UP CLOCK OFF CALL
13	Digital input 8	BACK-UP CLOCK ON CALL
14	DI Common	соммон
15	K1 N0	LIGHTS ON CALL
16	K1 C	K1 COMMON
17	K2 NO .	LIGHTS OFF CALL
18	K2 C	K2 COMMON
19	24 V+	24+VDC
20	24 V-	24-VDC

All analog inputs will be 4-20 mA only. Digital output relays will be Electrically energized and momentarily held

Mixed I/O module model number V436

REVISIONS			TMENT OF TRANSPORTATION
NAME	DATE	TEETHOIS DEL AIN	THE THE TENENT OF THE TENENT O
R. TOMSONS	8/04		
		LIGHTING CONT	TROLLER, RADIO CONTROL
*		DUPLEX	TYPE WITH SCADA
		BE-2	05 SHT 4 OF 4
		DL 2	05 5111 1 01 1
	****	SCALE: NONE	DRAWN BY CADD

LIGHTING CONTROLLER, RADIO CONTROL SECTION COUNTY TOTAL SHEETS DUPLEX TYPE WITH SCADE BE-205 SHT 4 OF 4 2008-08-31 CONTRACT NO. 60F87 SCALE: N.T.S. SHEET NO. OF SHEETS STA. -TO STA.

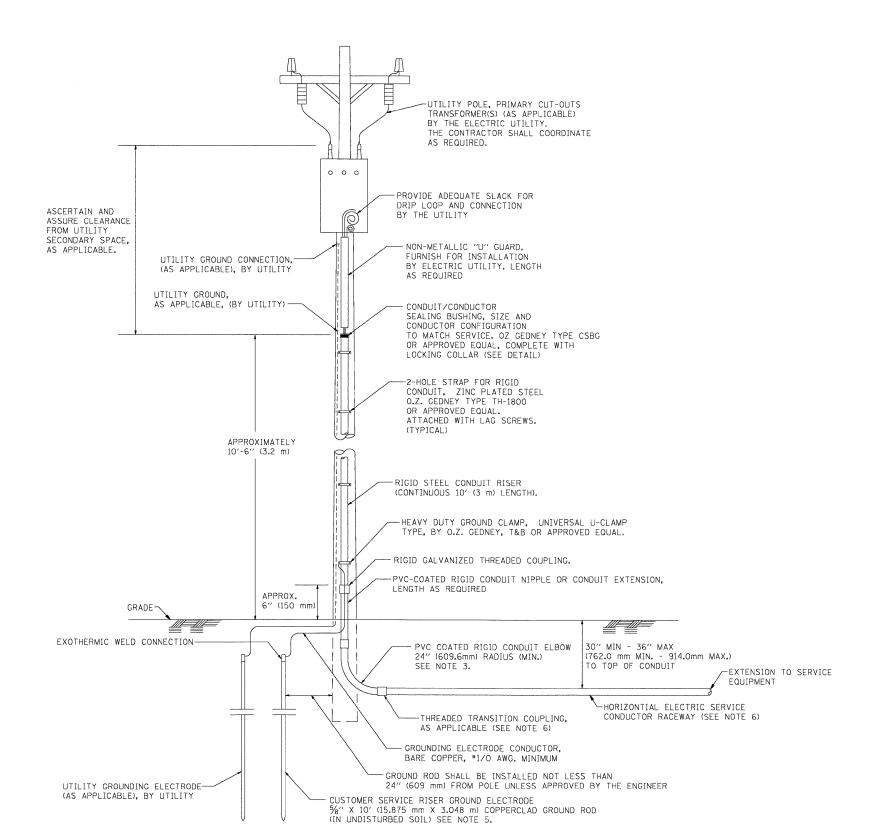
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DESIGNED REVISED DRAWN PLOT SCALE = #SCALE# CHECKED REVISED OT DATE = 1/27/2009 DATE 1/22/2009 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

240 v

F.A RTE.	SECTION	С	OUNT	Y	TOTAL SHEETS	SHEET NO.
334	2008-08-31		соок		80	75
STA.		TO	STA.			
FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID	PROJECT	

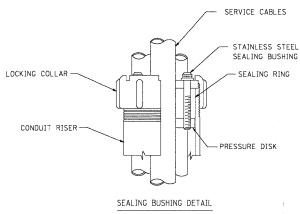


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- 1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- 2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- 3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- 4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- 5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- 6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- 7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



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LLINOIS DEPARTMENT OF TRANSPORTATION

ELECTRIC SERVICE INSTALLATION

AERIAL, REMOTE DISCONNECT

BE - 220

SCALE: NONE
DATE: 1/9/2007

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT
BE-220

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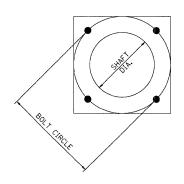
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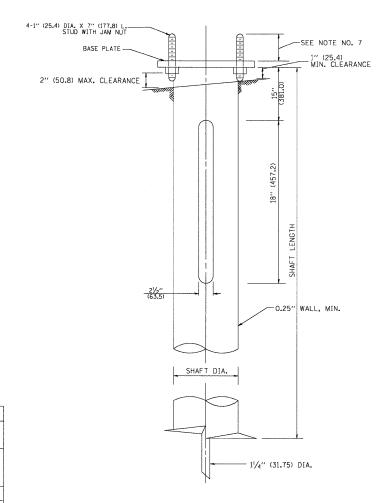
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HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	111/2"	85/8′′	6 FT.	12"×12"×1"
31 FT35 FT.	111/2"	85/8′′	6 FT.	12''x12''x1''
36 FT40FT.	15′′	85/8''	6 FT.	15"×15"×1 ¹ / ₄ "
41 FT45 FT.	15"	85/8′′	6 FT.	15"×15"×11/4"
46 FT50 FT.	15′′	10"	8 FT.	15"×15"×1 ¹ / ₄ "

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

- 1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- 3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- 4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
- 5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
- 6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- 7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
- 8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDTION IS NOT ALLOWED.
- 9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM), METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
- 10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (\pm 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (\pm 0.188) TO THE SHAFT AXIS.
- 11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
- 12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

BE-305

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION, METAL

SCALE: NONE DATE 2/27/2007

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION, METAL BE-305

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

F.A. RTE. 334

FOUNDATION DESIGN TABLE

	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
TYPE OF SOIL	SINGLE ARM D	TWIN ARM	SINGLE ARM		TWIN ARM	
		D	VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0''	15'-0''	8-#6X12'-6''	#3X122′	8-#6X14'-3''	#3X141′
	(3.962 m)	(4.572 m)	(3.810 m)	(37.186 m)	(4.343 m)	(42.977 m)
MEDIUM CLAY	9′-6′′	10′-9″	8-#6X9'-0''	#3X90′	8-#6X10'-0''	#3X100′
	(2.896 m)	(3.277 m)	(2.743 m)	(27.432 m)	(3.048 m)	(30.480 m)
STIFF CLAY	7′-0′′	8'-0''	8-#6X6'-6''	#3X66′	8-#6X7'-6''	#3X76'
	(2 . 134 m)	(2.438 m)	(1.981 m)	(20.112 m)	(2.286 m)	(23.165 m)
LOOSE SAND	9'-0''	10'-0''	8-#6X8'-6''	#3X85′	8-#6X9'-6''	#3X94′
	(2 . 743 m)	(3 . 048 m)	(2.591 m)	(25.908 m)	(2.896 m)	(28.651 m)
MEDIUM SAND	8′-3′′	9'-0''	8-#6X8'-0''	#3X78′	8-#6X8'-6''	#3X85′
	(2 . 515 m)	(2 . 743 m)	(2.438 m)	(23.774 m)	(2.591 m)	(25.908 m)
DENSE SAND	7′-9″	9′-0′′	8-#6X7'-6''	#3X73′	8-#6X8'-6''	#3X85′
	(2 . 362 m)	(2.743 m)	(2.286 m)	(22,250 m)	(2,591 m)	(25.908 m)
ROCK OR SOLIDIFIED SLAG	5′-0″ (1.524 m)	5′-0′′ (1.524 m)	NONE	NONE	NONE	NONE

NOTES

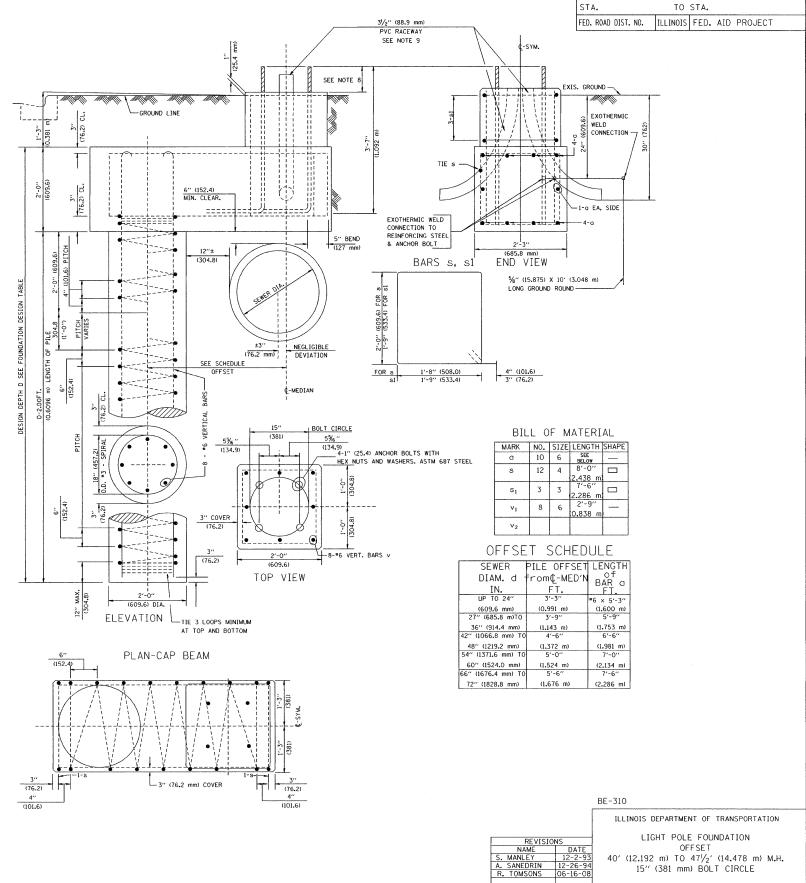
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- 3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- 4. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- 5. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- 6. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- 7. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.

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- 8. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT $2\frac{3}{4}$ " (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- 9. RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- 10. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION, OFFSET BE-310

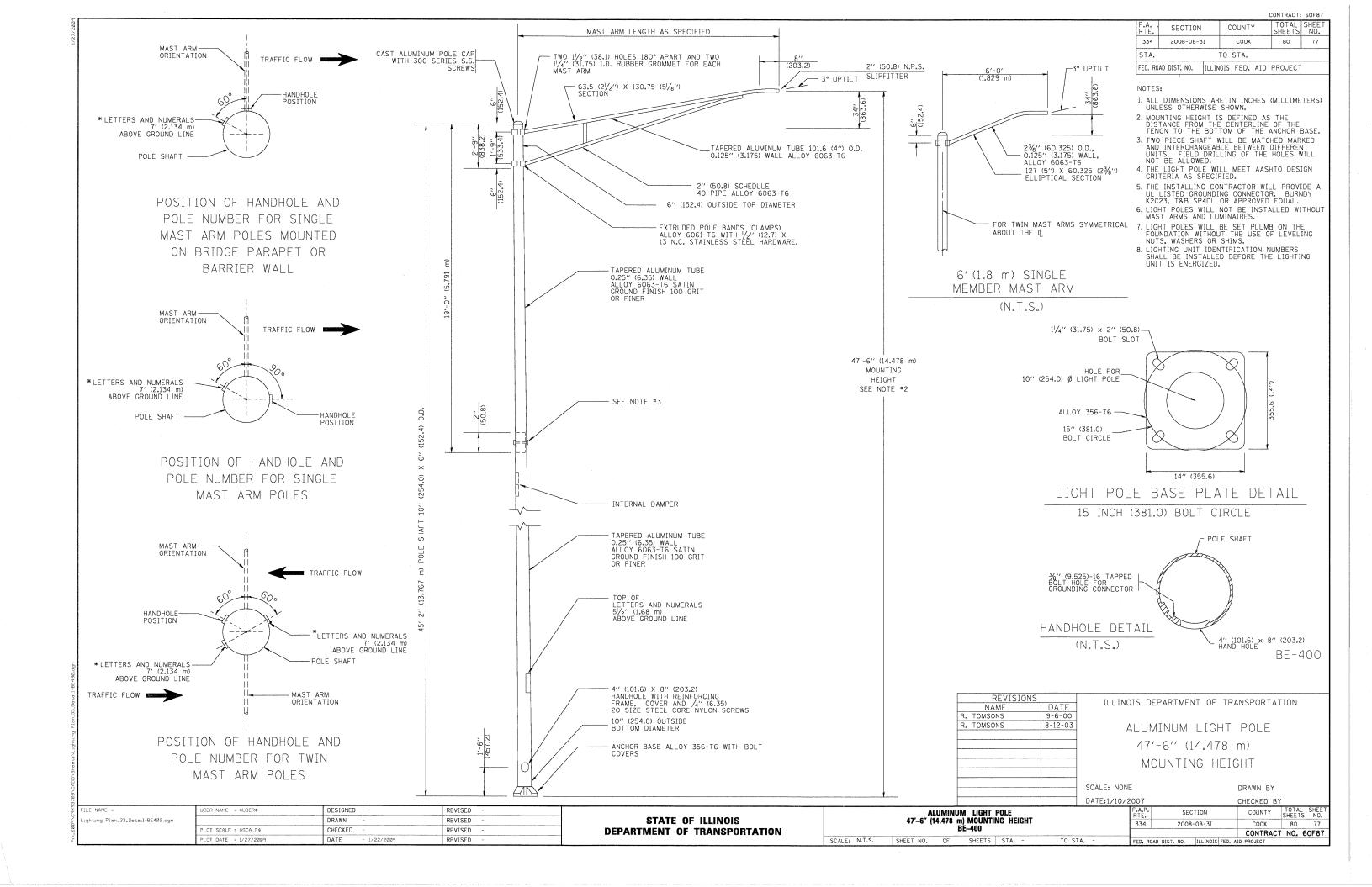
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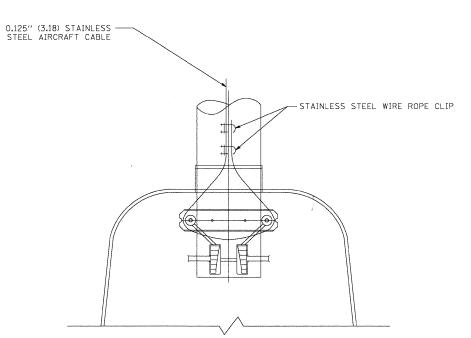
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BOTTOM VIEW

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- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
- 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
- 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

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DEPARTMENT OF TRANSPORTATION

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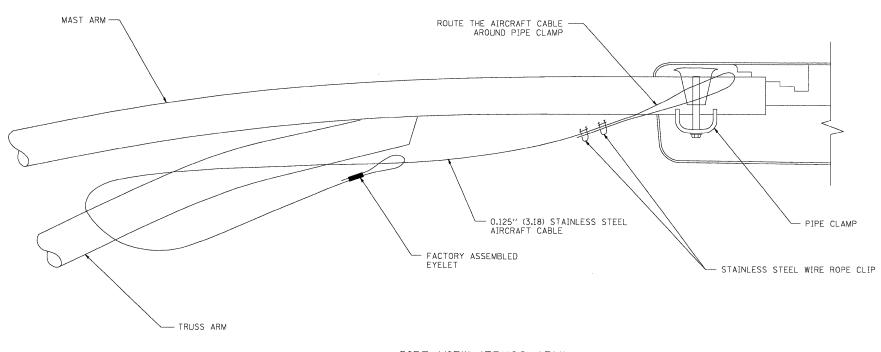
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LUMINAIRE SAFETY CABLE ASSEMBLY BE-701

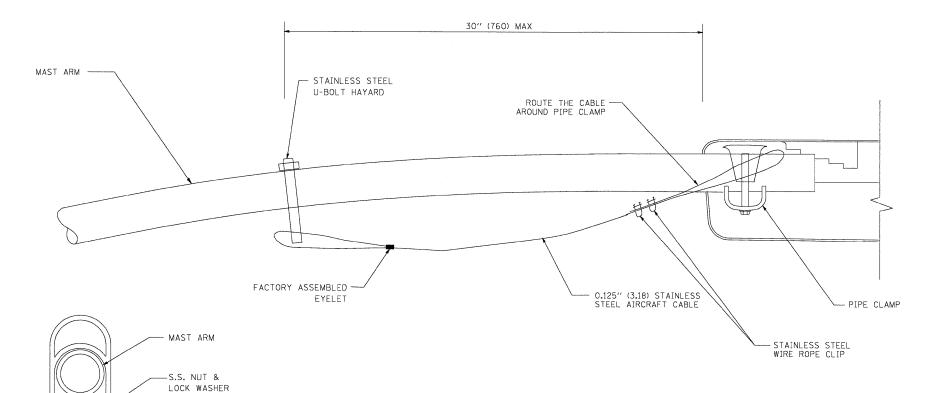
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SIDE VIEW (TRUSS ARM)

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SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)

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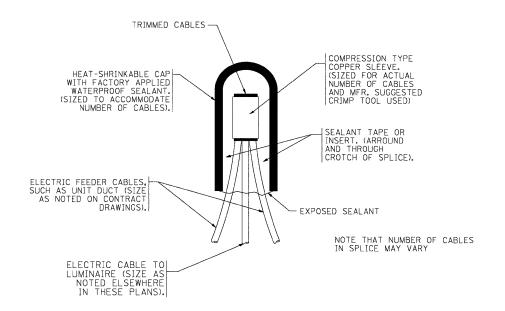
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STAINLESS STEEL U-BOLT HAYARD

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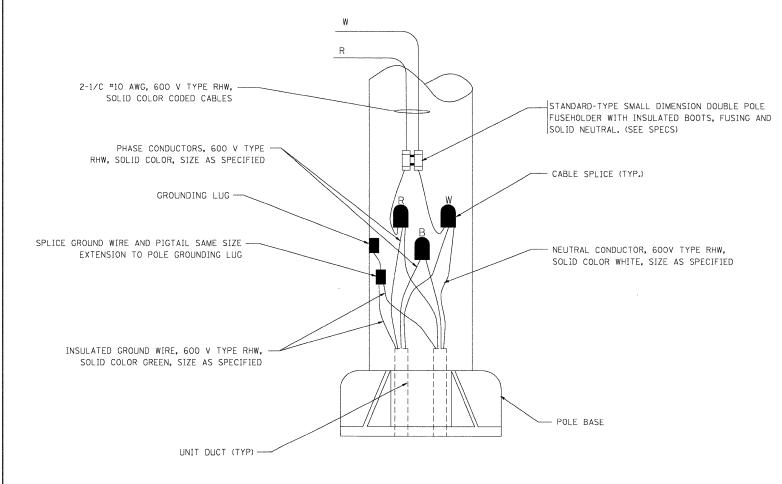


12" (305) MAXIMUM WIDTH EXCEPT



TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATIO

MISC. ELECTRICAL DETAILS SHEET A BE-702 COUNTY TOTAL SHEET NO. SECTION

AS APPROVED BY THE ENGINEER 12" (305) 30" (762) MINIMUM COVER - WARNING TAPE AS SPECIFIED UNIT DUCT OR OTHER RACEWAY AND WIRING AS PER PLANS. COMPLETE WITH INTERNAL INSULATED EQUIPMENT GROUND WIRE.

TYPICAL WIRING IN TRENCH DETAIL N.T.S.

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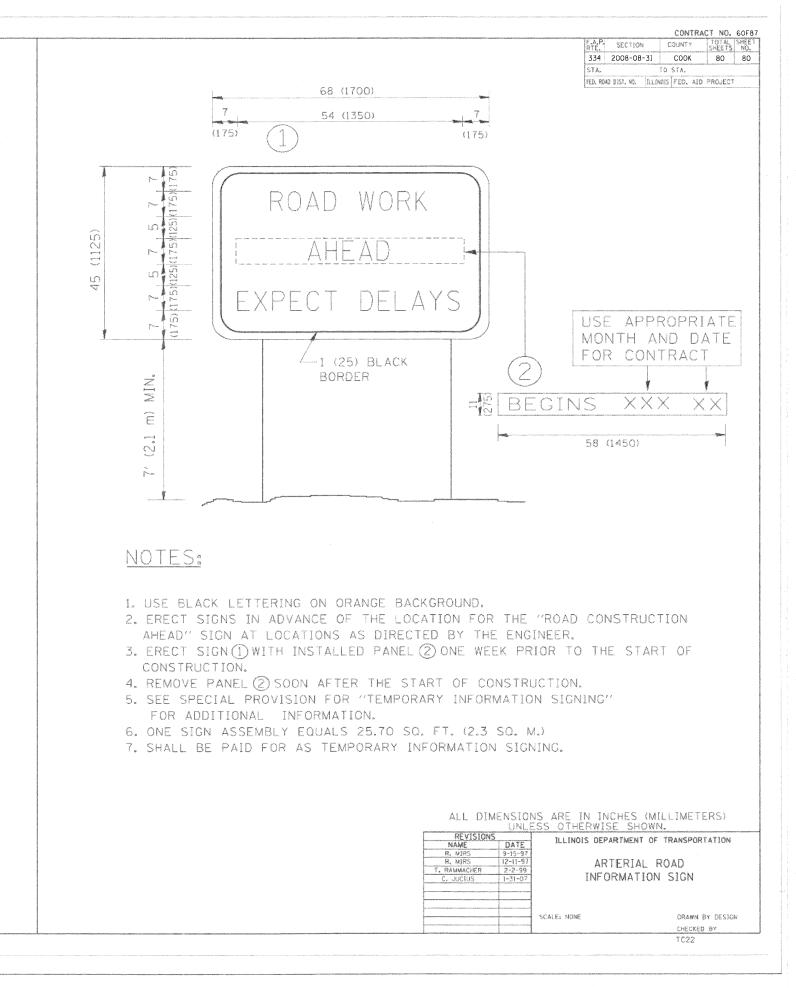
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