PROJECT GROSS LENGTH = 8.700.00 FEET = 1.65 MILES

EXPIRES: 11/30/09

SMITH ENGINEERING CONSULTANTS, INC.

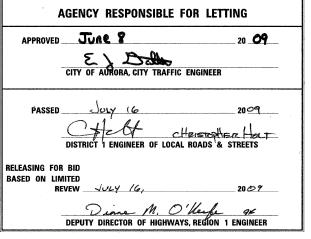
PROJECT NET LENGTH = 8.700.00 FEET = 1.65 MILES

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO: 63177

F.A.U. SECTION 2503 08-00272-00-TL KANE 40 1 CONTRACT NO. 63177







		Τ	[Y031 - 1F					
CODE PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	NORTH AVENUE	BENTON STREET	DOWNER PLACE	GALENA BOULEVARD	NEW YORK STREET	SPRING STREET	TRANSPORTATION CENTER	POST OFFICE	ILLINOIS AVENUE	INTERCONNECT	es established
2400300 PORTLAND CEMENT CONCRETE SIDEWALK 6"	SQFT	423	340						53	30			
12400800 DETECTABLE WARNINGS	SQFT	98	61						21	16			
14000500 COMBINATION CURB AND GUTTER REMOVAL	FOOT	62	51						11				
14000600 SIDEWALK REMOVAL	SQFT	361	278						53	30	et vertilen ett men et hendette i ha fret skrive verheide et er i verk		
60603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	62	51	 					11	- 50			
87000500 ENGINEER'S FIELD OFFICE, TYPE B	CAL MO												
57100100 MOBILIZATION	LSUM	1											
70101800 TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1											
72000100 SIGN PANEL - TYPE 1	SQFT	43.9	43.9										
			40.9							74			
8000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4" 8000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2016	414					388	384	71 258	572		
	FOOT	553	114					99	127	83	130		
8300100 PAVEMENT MARKING REMOVAL	SQFT	1948	411					377	445	245	470		
1000600 CONDUIT IN TRENCH, 2" DIA,,GALVANIZED STEEL	FOOT	327	327										
11000700 CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	286	76					44	102	64			
1001000 CONDUIT IN TRENCH, 4" DIA.,GALVANIZED STEEL	FOOT	218	46						128	44			
1018500 CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	220	220										
31018600 CONDUIT PUSHED, 2 1/2" DIA.,GALVANIZED STEEL	FOOT	22	22										
1018900 CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	572	178						196	198			
1400100 HANDHOLE	EACH	6	6										
1400300 DOUBLE HANDHOLE	EACH	1	1				4						
1900200 TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	919	515					66	230	108			
000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	8		1	11	1	1	1	1	1	1		
5700205 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	2	111								. 1		
5700500 FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	3						1	1	1			
9900100 TRANSCEIVER	EACH	9										9	
7301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2630.5	515					536.5	645.5	375.5	558		
7301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6880.5	1361.5		133.5			1217.5	1458	968.5	1741.5		
301245 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4218.5	625					304.5	1195	1750	344		
7301255 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3495.5	1212					82	1596.5	605			
7301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5262.5	1760					843	1203	800	656.5	1	
7301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	249	35.5						65.5	104.5	43.5		
37502480 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1								1			
502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4	1						2	1			
7502520 TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	3						1	2				
700140 STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1	1										
37700150 STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1	1										
7700160 STEEL MAST ARM ASSEMBLY AND POLE, 24 FT	EACH	1	1										
7700170 STEEL MAST ARM ASSEMBLY AND POLE, 26 FT	EACH	1					Committee of the Commit			1			
7700180 STEEL MAST ARM ASSEMBLY AND POLE, 28 FT	EACH	1	1										
7700190 STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1							1				
7700200 STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1								1			
700210 STEEL MAST ARM ASSEMBLYAND POLE, 34 FT.	EACH	1				-			1	·			
7700220 STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1								1			
7800100 CONCRETE FOUNDATION, TYPE A	FOOT	32	4					4	16	8			
7800150 CONCRETE FOUNDATION, TYPE C	FOOT	4	. 4	 									
Re DESIGNED - REVISED -	, , , , , , ,						***************************************		***************************************			F.A.U. SEC	TION C
DRAWN BAH REVISED -			E OF ILLI					SUMMA	RY OF QUANTIT	TIES		2503 08-0027	2-00-TL
LE6 CHECKED APS REVISED - 20093 DATE JAN 16 2009 REVISED -	DEPA	KTMENT	OF TRAN	NSPORTAT	ION	SCALE:	cur	ET NO. OF	SHEETS STA.	T0	STA.	FED. ROAD DIST. NO.	CC

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NOTE BOOK ALFOWERS
NO. CAUD FILE NAME
NO. CAUD FILE NAME

* SPECIALTY ITEMS

PLOT SCALE = \$SCALE\$

PLOT DATE = 6/8/2009

FILE NAME \$FILEL\$

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	NORTH AVENUE	BENTON STREET	DOWNER PLACE	GALENA BOULEVARD	NEW YORK STREET	SPRING STREET	TRANSPORTATION CENTER	POST OFFICE	ILLINOIS AVENUE	INTERCONNEC
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	107.5	40						27	40.5		
87900200	DRILL EXISTING HANDHOLE	EACH	34						5	18	11		
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	18	4					2	4	6	2	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1								11		
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	5						1	4			
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5	4							1		
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	8	4						2	2		
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	1								1		
88030330	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1							1			
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6					***	2	2	2		
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	13	4					2	2	1	4	
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	27	8					2	6	9	2	
88500100	INDUCTIVE LOOP DETECTOR	EACH	18	9					2	3	2	2	
88600100	DETECTOR LOOP, TYPE I	FOOT	1139	859					136	144			
88700200	LIGHT DETECTOR	EACH	12	2				* =	2	3	2	3	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	5	1				, -	1	1	1	1	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	19	4					4	4	3	4	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1						-			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	12347	3756		`			1862.5	4112	2573	43.5	
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1				7	1	1	1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	4	4									
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	23	9					1	6	7		
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	261						•				261
	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1										1
	PAINT NEW MAST ARM POLE, UNDER 40 FEET	EACH	9	4				F 199		2	3		
	REMOVE AND REINSTALL LIGHT POLE, SPECIAL				- 1	1		4			3		
	WIRELESS INTERCONNECT (COMPLETE)	EACH	4		1	1	1	1					
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1										1
		EACH	1	1									
	WIRELESS ETHERNET RADIO	EACH	3		1	1	1						
	SERVICE INSTALLATION - POLE MOUNTED	EACH	4	1						1	1	1	
	PAINT TRAFFIC SIGNAL POST	EACH	8	1					1	4	2		
	UNINTERRUPTABLE POWER SUPPLY	EACH	5	1					11	1	11	1	
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	261										261
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	2065	440					60	610.5	507	447.5	
	MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1									1	
	VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	133.5			133.5					-		
XX005660	ELECTRIC CABLE IN CONDUIT, NO. 20 3C TWISTED SHIELDED	FOOT	2022	275.5		133.5		· · · · · · · · · · · · · · · · · · ·	267	373	403.5	569.5	
XX006923	GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	19							8	5	6	
XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1			1							
X007987	SIGNAL HEAD, LED, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	6			-			2			4	
X007988	SIGNAL HEAD, LED, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	6						3			3	
X008122	SIGNAL HEAD, LED, 4-SECTION, BRACKET MOUNTED, RETROFIT	EACH	3						3				
X007989	SIGNAL HEAD, LED, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	5						1			. 4	
X00 7990	SIGNAL HEAD, LED, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	5						1			4	

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

							F.A.U. RTE.	SECT	TION	COUNTY	TOTAL	SHEET NO.
		SUM	MARY	OF QU	IANTITIES		2503	08-00272	2-00-TL	KANE .	40	3
								-		CONTRACT	NO.	63177
SCALE:	SHEET	NO.	OF	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO.	ILLINOIS FED. AI	D PROJECT		

SUMMARY OF QUANTITIES

					Y031 - 1F								
CODE NUMBER	PAYITEM DESCRIPTION	UNIT	TOTAL	NORTH AVENUE	BENTON STREET	DOWNER PLACE	GALENA BOULEVARD	NEW YORK STREET	SPRING STREET	TRANSPORTATION CENTER	POST OFFICE	ILLINOIS AVENUE	INTERCONNECT
XX006958	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1						· · · · · · · · · · · · · · · · · · ·	1			
XX007952	TERMINAL SERVER	EACH	1										1
XX007992	ETHERNET SWITCH	EACH	1										1
XX007993	CENTRALIZED SYSTEM FIELD INTEGRATION/SETUP	LSUM	1										1
XX007994	FIBER OPTIC SPLICE	EACH	1										1
			L		L		1			,			

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141	PLAN		NOTE BOOK		NO.	

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FILE NAME =	USER NAME = \$USER\$	DESIGNED ~	REVISED -			*		F.A.U. SECTION	COUNTY	Y TOTAL SHEET
FILEL		DRAWN BAH	REVISED -	STATE OF ILLINOIS		SUMMARY OF QUANTITIES		2503 08-00272-00-	TL KANE	40 4
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRA	ACT NO. 63177
	PLOT DATE = 6/8/2009	DATE JAN 16 2009	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO. ILLINO	DIS FED. AID PROJECT	

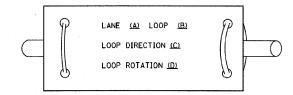
LOOP DETECTOR NOTES 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP

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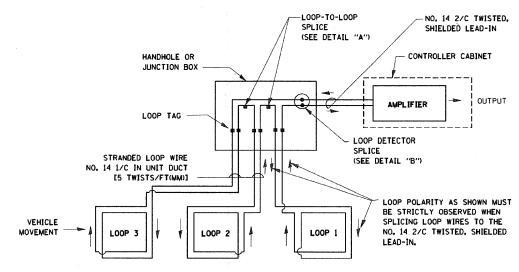
SURVEYED— PLOTTED— GRADES CHEI B.M. NOTED STRUCTURE

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

LOOP LEAD-IN CABLE TAG

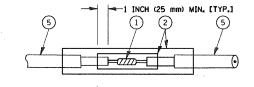


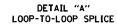
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

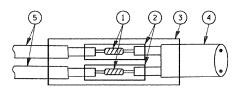


DETECTOR LOOP WIRING SCHEMATIC

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







DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

REVISIONS		THE THOSE OF BARTHEN	T OF TRANSPORTATION
NAME	DATE	ILLINOIS DELAKIMEN	OF TRANSPORTATION
CADD	5/30/00		
ADD NOTE NO. 8	11/12/01	DISTRI	CT ONE
BUREAU OF TRAFFIC	1-01-02	STANDARD TE	RAFFIC SIGNAL
		STANDAND IN	WELLIC STOWAL
		DESIGN	DETAILS
		SCALE: NONE	DRAWN BY: RWP DESIGNED BY: DAD
		SCALES NUME	CHECKED BY: DAD
		DATE: 2/15/2006	SHEET 1 OF 4

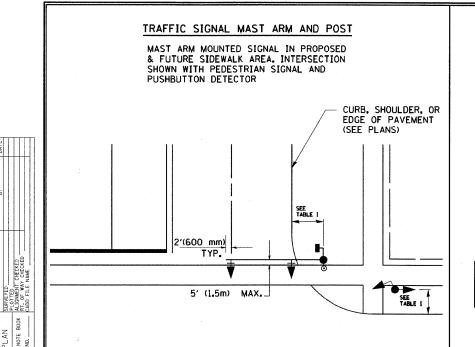
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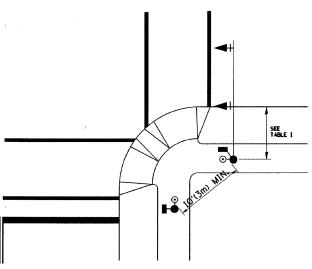
TO STA.

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

								REVISION DATE: 0	01/01/02
FILE NAME =	USER NAME = \$USER\$	DESIGNED ~	REVISED -		DISTRICT ONE	F.A.U.	SECTION	COUNTY	TOTAL SHEET
\$FILEL\$		DRAWN BAH	REVISED -	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNALS	2503	08-00272-00-TL	KANE	40 5
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	DESIGN DETAILS			CONTRACT	NO. 63177
	PLOT DATE = 6/8/2009	DATE JAN 16 2009	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT	



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.

NOTES:

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

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

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

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m)
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS
 THAN 8 FT (2,4m) NOR MORE THAN 10 FT (3,0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A
 PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

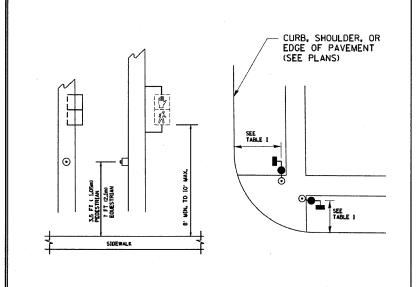


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1 _* 8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS DESIGNED BY: DAD CHECKED BY: DAZ SHEET 2 OF 4 SCALE: NONE DATE: 1/17/2007

TO STA.

REVISION DATE: OL

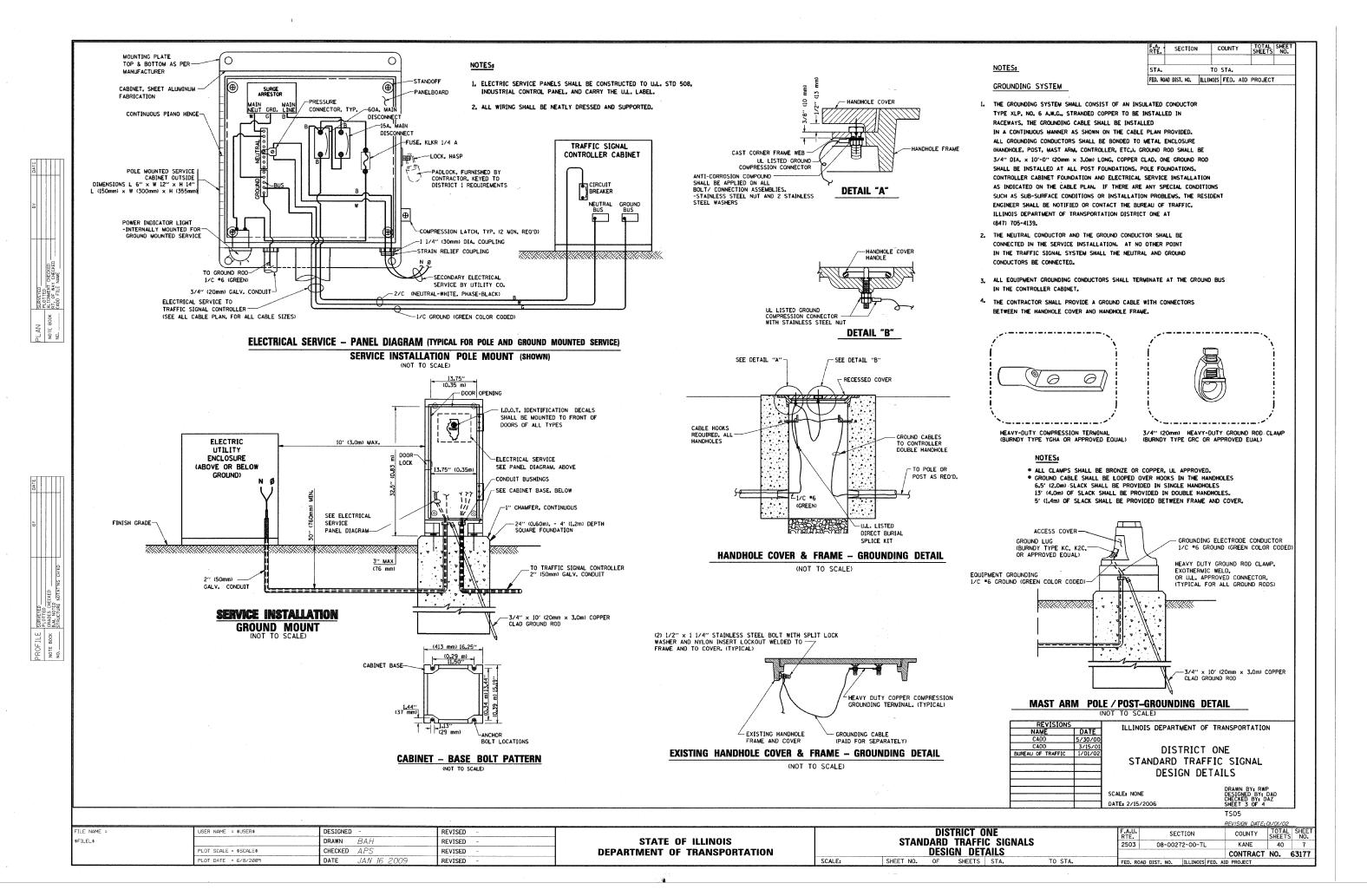
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FILEL\$		DRAWN BAH	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -
	PLOT DATE = 6/8/2009	DATE JAN 16 2009	REVISED ~

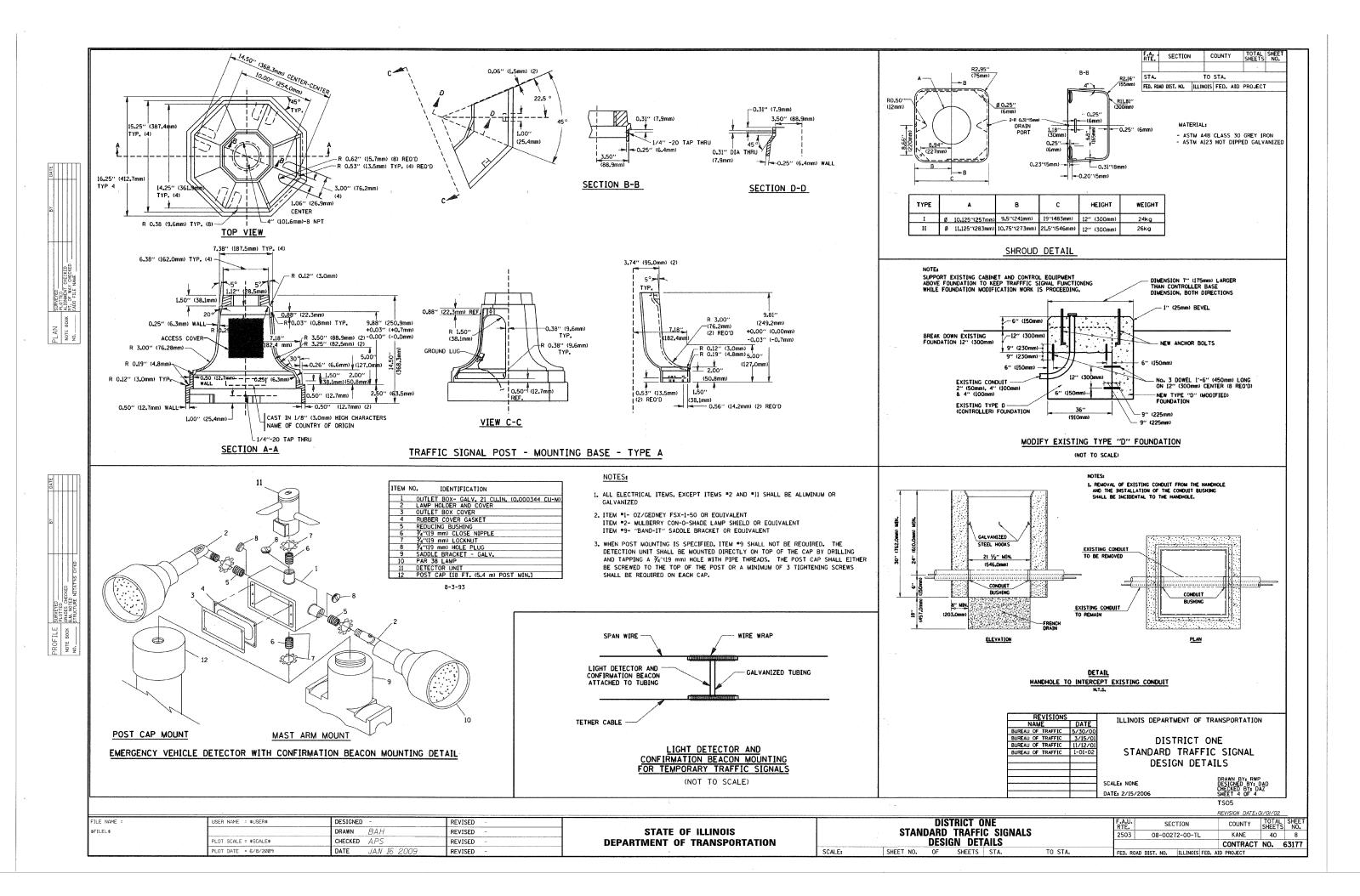
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

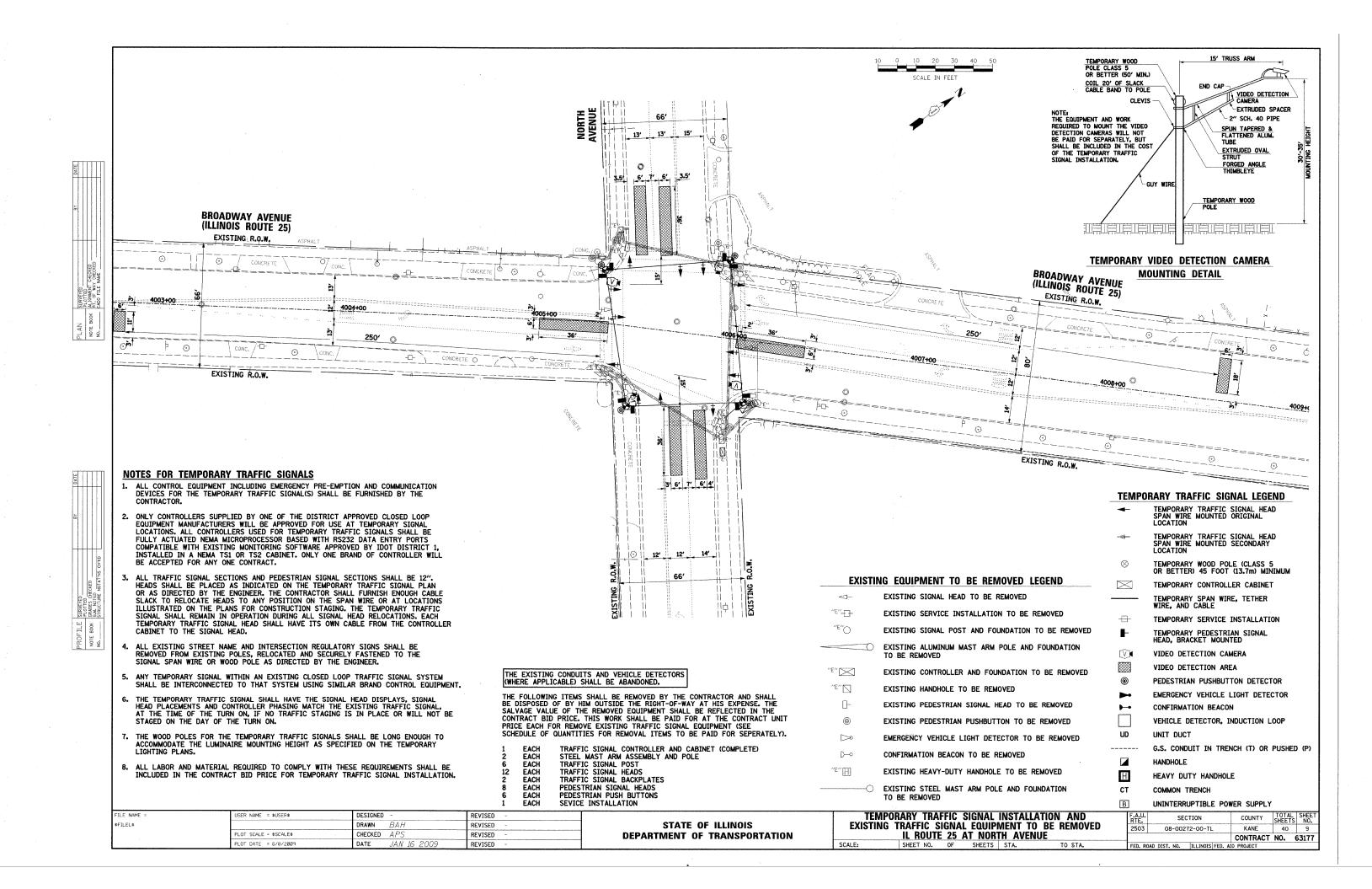
DISTRICT ONE STANDARD TRAFFIC SIGNALS **DESIGN DETAILS** SHEET NO.

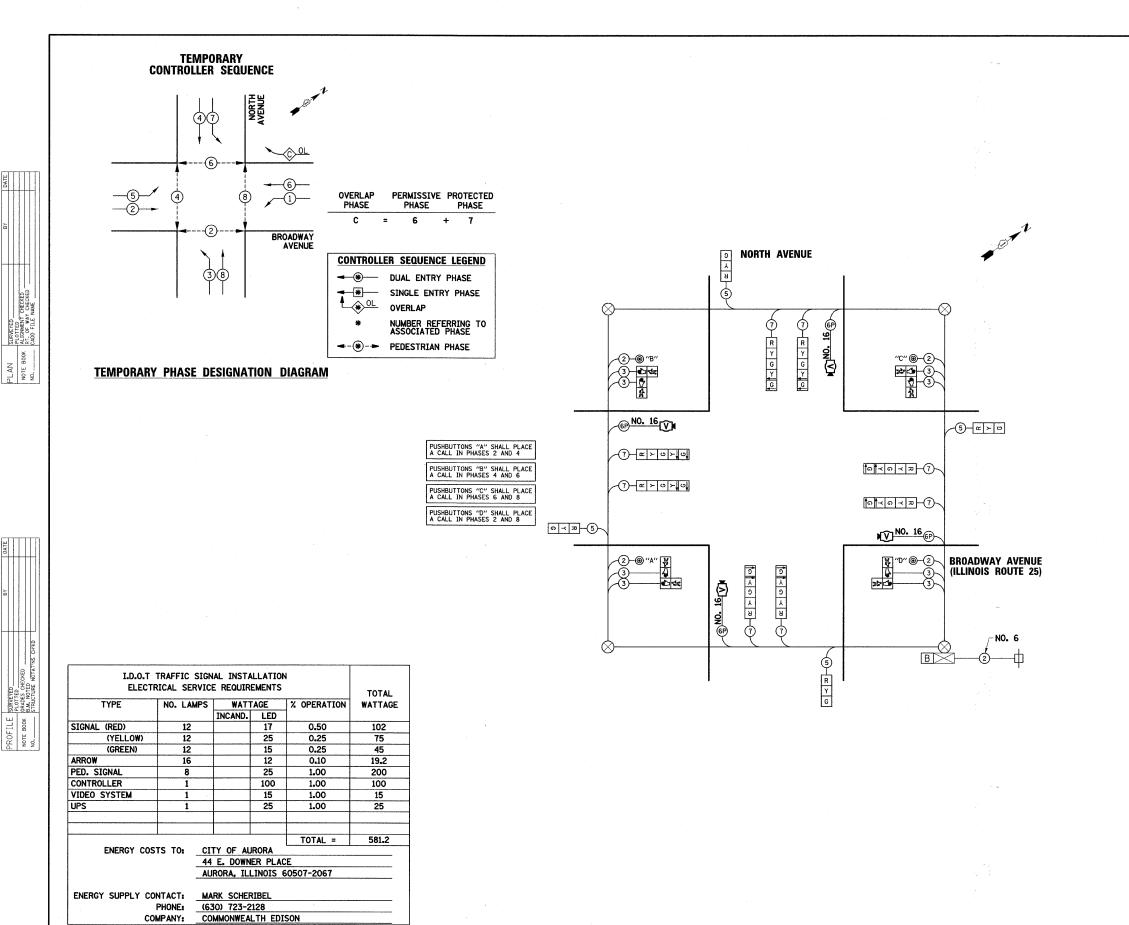
SCALE:

SECTION COUNTY KANE 40 2503 08-00272-00-TL CONTRACT NO. 63177 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT









TEMPORARY CABLE DIAGRAM LEGEND

TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)

TEMPORARY CONTROLLER CABINET

TEMPORARY SERVICE INSTALLATION

(5) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NO. 14 AWG WIRE UNLESS OTHERWISE NOTED.

■ EMERGENCY VEHICLE LIGHT DETECTOR

CONFIRMATION BEACON

VEHICLE DETECTOR, INDUCTION LOOP

PEDESTRIAN PUSHBUTTON DETECTOR

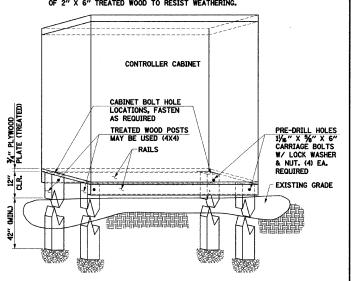
12" (300mm) PEDESTRIAN SIGNAL SECTION

VIDEO DETECTION CAMERA

B UNINTERRUPTABLE POWER SUPPLY

CONTROLLER CABINET TYPE AND DIMENSIONS VARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT CABINET DIMENSIONS PRIOR TO THE CONSTRUCTION OF THE CABINET MOUNTING PLATFORM SHOWN BELOW.

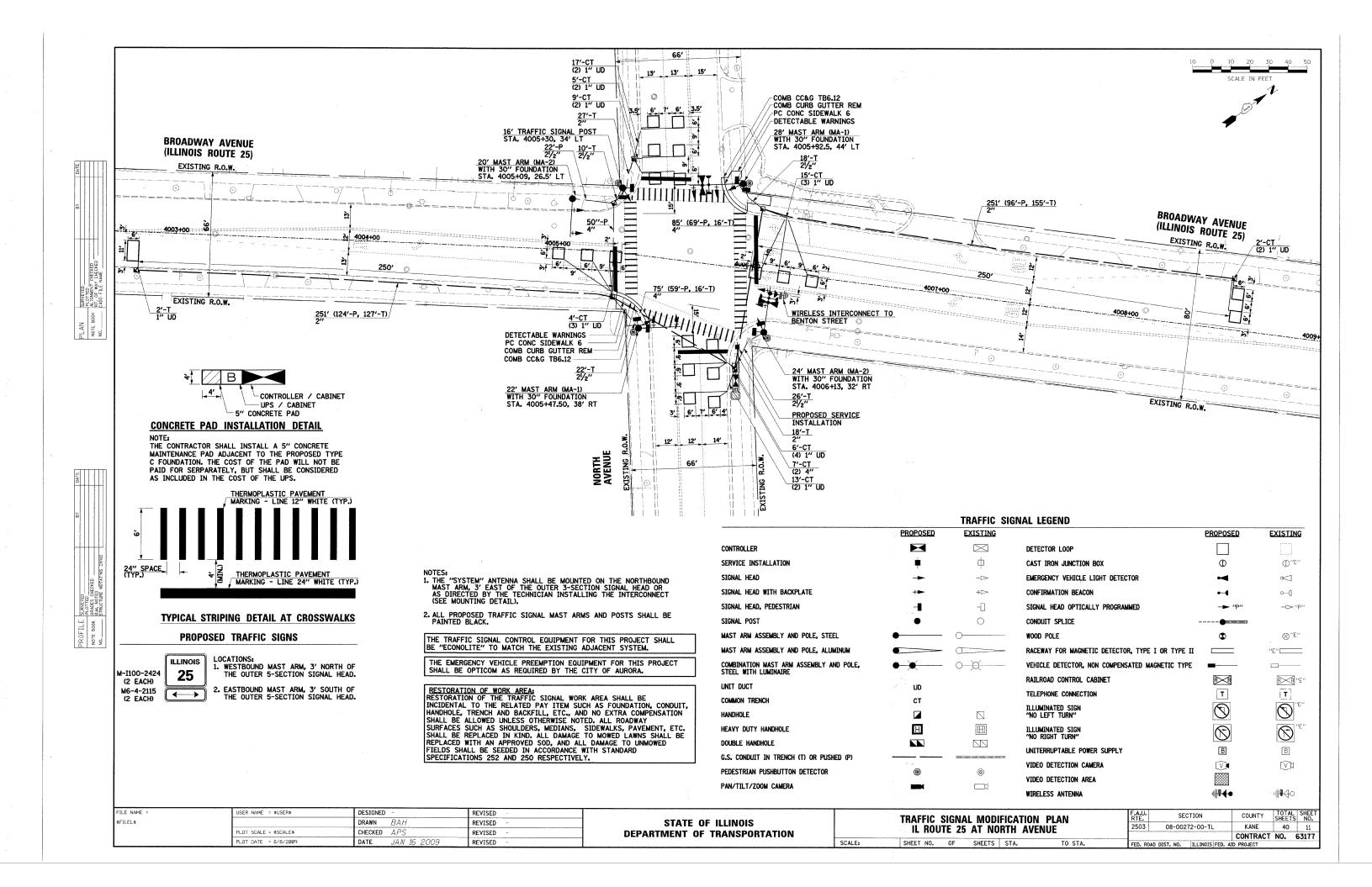
CABINET PLATFORM LEGS AND RAILS SHALL BE CONSTRUCTED OF 2" X 6" TREATED WOOD TO RESIST WEATHERING.

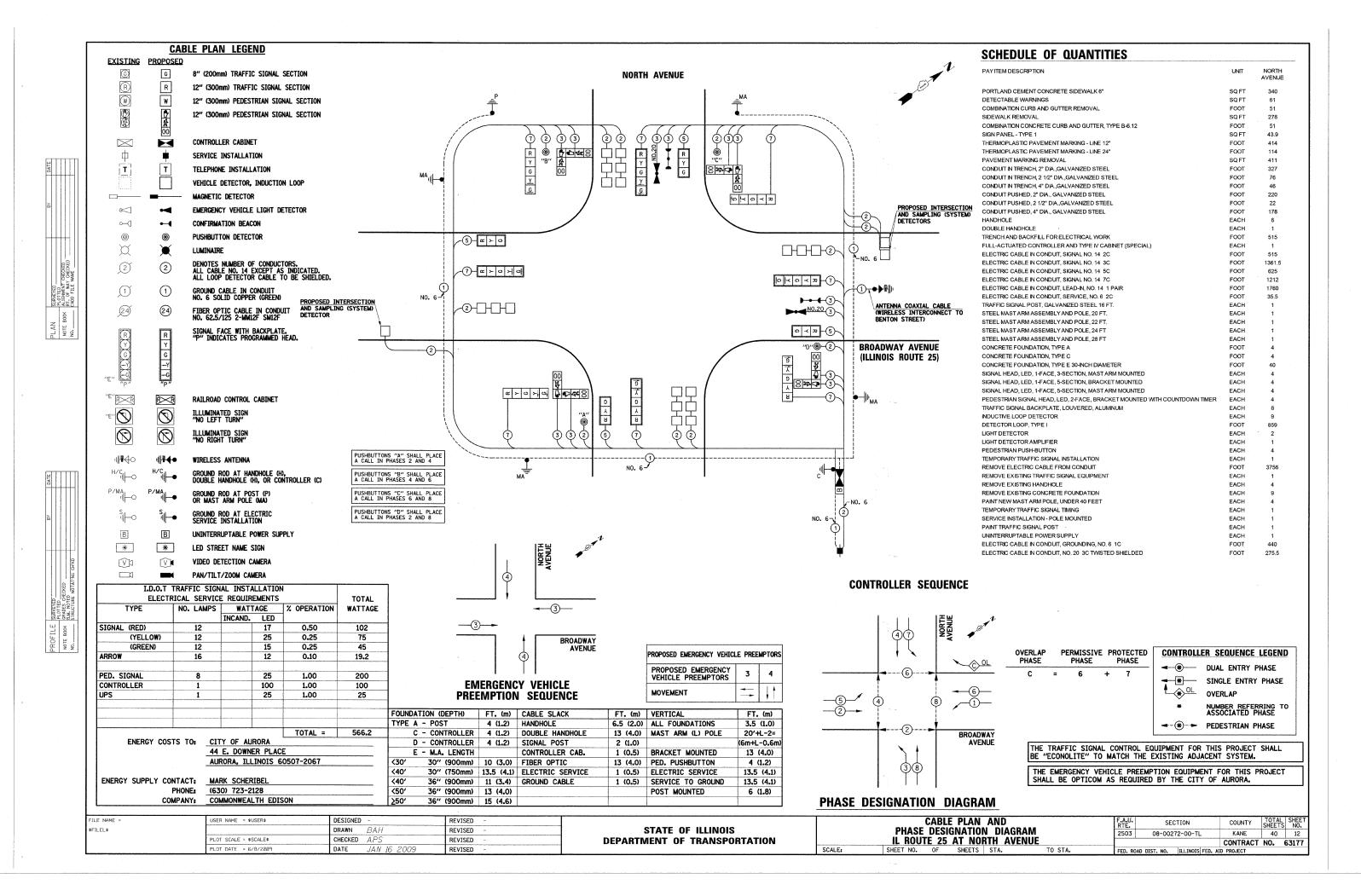


TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM DETAIL

NOT TO SCALE)

FILE NAME =		USER NAME = \$USER\$	DESIGNED -	REVISED -		TEMPORARY TRAFFIC SIGNAL	F.A.U. SECTION	COUNTY TOTAL SHEET
\$FILEL\$	· ·		DRAWN BAH	REVISED -	STATE OF ILLINOIS	CABLE PLAN AND PHASE DESIGNATION DIAGRAM	2503 08-00272-00-TL	KANE 40 10
		PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 25 AT NORTH AVENUE		CONTRACT NO. 63177
		PLOT DATE = 6/8/2009	DATE JAN 16 2009	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AI	D PROJECT

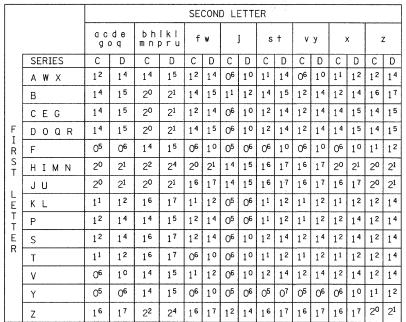






6 INCH UPPER CAȘE LETTERS

SERIES



Lower Case To Lower Case Spacing Chart 6 Inch Series "C & D"

SECOND LETTER																	
		a c d e g o q		bhikl mnpru		fw		j		s t		v y		х		Z	
F I R S T	SERIES	С	D	С	D	С	D	С	D	C	D	C	D	Ç	D	С	D
	adhgij Imnqu	16	17	2 ²	24	16	17	12	14	14	15	14	15	16	17	16	17
	bfkops	1 ²	14	16	17	11	12	O ⁵	06	11	12	11	12	12	14	12	14
	се	1 ²	14	16	17	1 ²	14	O _e	1º	12	14	1 ²	14	1 ²	14	1 ²	14
Ĺ	r	06	10	12	14	06	10	O ³	03	O ⁵	O _e	05	06	06	10	06	10
E T	† z	12	14	16	17	1 ²	14	O _e	1º	11	12	1 ¹	1 ²	1 ²	14	1 ²	14
T E R	νу	1 ¹	12	14	15	11	1 ²	O ⁵	O _e	O _e	10	O _e	10	11	12	11	12
	w	1 ¹	12	14	15	11	12	O ⁵	06	11	12	1 ¹	12	11	12	12	14
	х	12	14	16	17	11	1 ²	O ⁵	06	11	12	1 ¹	1 ²	11	1 ²	12	14

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

								S	ECC	ND	LE	TTE	R								
		()		1	;	2		3		4	í	5	(5	-	7	8	3	Ş	9
F	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
I R S T	0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
	1	20	21	20	2 ¹	20	21	16	17	14	15	20	2 ¹	20	2 ¹	14	1 ⁵	20	21	20	2 ¹
	2 3 4	14	15	14	15	14	15	12	14	12	14	14	1 ⁵	14	15	1 ¹	12	16	17	14	1 ⁵
N	5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	1 ¹	12	14	15	14	1 ⁵
M	6	16	17	14	15	14	15	12	15	12	14	14	1 ⁵	14	15	11	12	14	15	14	15
B	7	1 ²	14	1 ²	14	14	15	1 ²	15	05	O ₆	12	14	14	15	1 ¹	12	14	15	12	14
R	8	16	17	16	17	14	1 ⁵	12	1 ⁵	12	14	14	1 ⁵	16	17.	1 ²	14	16	17	14	15

D	561	11111	JE11	11		JEI	(IL)
¯R S	С	D	С	D	R S	С	D
Α	36	5 ⁰	50	6 ⁵	a	3 ⁵	42
В	3 ²	40	43	5 ³	Ь	3 ⁵	42
С	32	40	43	53	С	3 5	41
D	32	40	43	53	d	35	42
E	30	35	40	47	е	3 ⁵	42
F	30	3 ⁵	40	47	f	23	26
G	3 ²	40	43	5 ³	g	3 ⁵	42
Н	3 ²	40	43	5 ³	h	3 ⁵	42
I	07	07	11	12	i	1 ¹	11
J	30	36	40	50	j	20	2 ²
K	3 ²	41	43	5 ⁴	k	3 ⁵	42
L	30	3 ⁵	40	47	ı	1 ¹	11
М	37	45	5 ¹	6 ¹	m	60	70
N	3 ²	40	43	5 ³	n	3 ⁵ .	42
0	3 ⁴	42	45	5 ⁵	0	3 ⁶	43
Р	3 ²	40	43	5 ³	Р	3 ⁵	42
Q	34	42	45	5 ⁵	q	35	42
R	3 ²	40	43	5 ³	r	26	3 ²
S	3 ²	40	43	5 ³	s	36	42
Т	3 ⁰	3 ⁵	40	47	+	27	3 ²
U	3 ²	40	43	5 ³	u	3 ⁵	42
٧	3 ⁵	44	47	6 ⁰	٧	42	47
W	.44	5 ²	6 ⁰	70	w	5 ⁵	6 ⁴
Χ	34	40	45	53	×	44	5 ¹
Υ	36	50	5 ⁰	6 ⁶	У	46	5 ³
Z	3 ²	40	43	53	Z	36	43

8 INCH UPPER CASE LETTERS

SERIES

6 INCH LOWER CASE LETTERS

N _{UM}	6 INCH	SERIES	8 INCH SERIES				
N _{UMBER}	С	D	С	D			
1	12	14	15	20			
2	3 ²	40	43	5 ³			
3	3 ²	40	43	5 3			
4	35	43	47	5 ⁷			
5	3 ²	40	43	53			
6	3 ²	40	43	53			
7	3 ²	40	43	53			
8	3 ²	40	43	5 ³			
9	3 ²	40	43	5 ³			
0	3 ⁴	42	45	5 ⁵			

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

	72 ⁰	E ⁰ 13 ⁴ 3 ⁷	(A-C)/2	SUPPORTING CHANNELS
50	2 48	5 12 2	B	▼ VAR
8° 6° 5°	Broadway	Av	C	
	•	MA-1	(A-C)/2	-

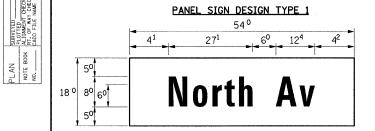
PANEL SIGN DESIGN TYPE 1

9.00 Sq. Ft each 2 Required Design Series D

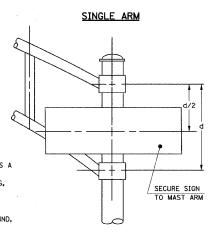
2" 18" 12" 30" 2" 22" SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5

ВС

2"±



MA-2 6.75 Sq. Ft each 2 Required Design Series D



DUAL ARM

GENERAL NOTES

WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 2374 THROUGH 2377, AS APPLICABLE, PLUS A 2'-6" BY 6'-0" SIGN PANEL MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.

2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.

3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0"

4. ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 21/4".

5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

 A-K-T. CORPORATION SCHAUMBURG, IL.

. AMERICAN FABRICATION CO.

. TUCKER COMPANY, INC. WAUWATOSA, WI.

. WESTERN TRAFFIC CONTROL, INC. CICERO, IL.

PARTS LISTING:

SIGN CHANNEL SIGN SCREWS

PART 3HPN053 (MED. CHANNEL) 1/4" X 14 X 1" H.W.H. #3
SELF TAPPING WITH NEOPREAM WASHER

BRACKETS

PART *HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

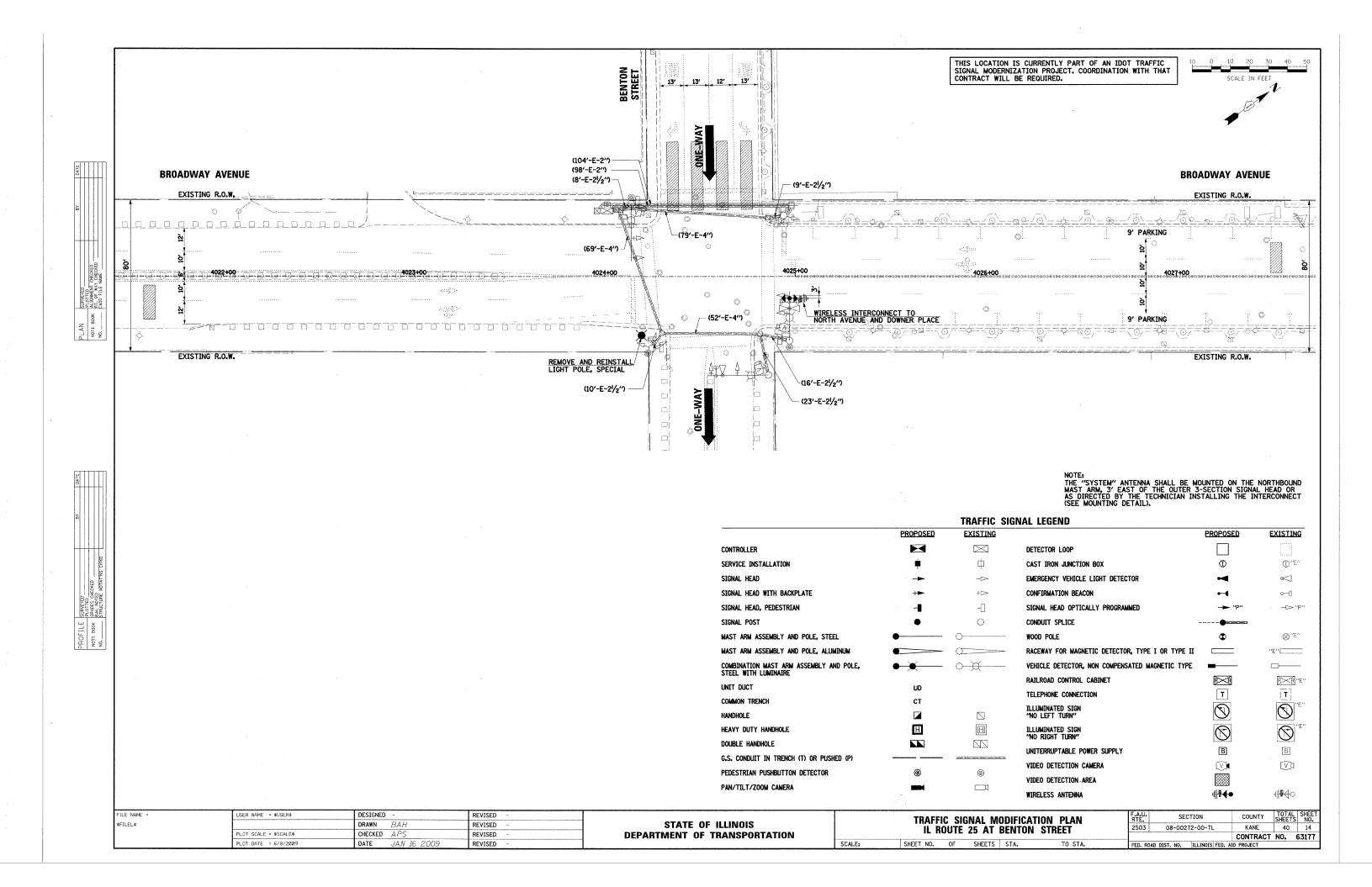
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

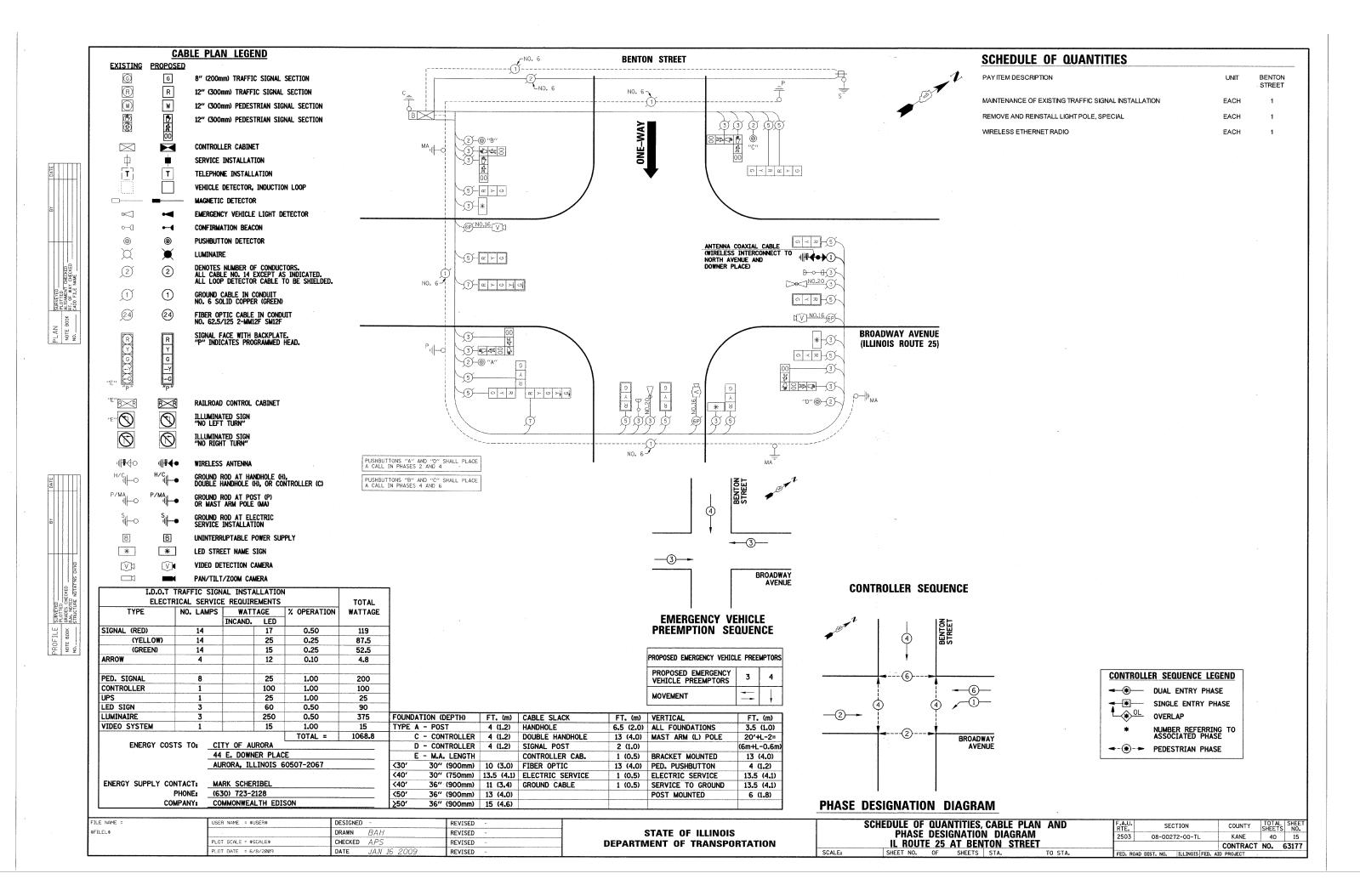
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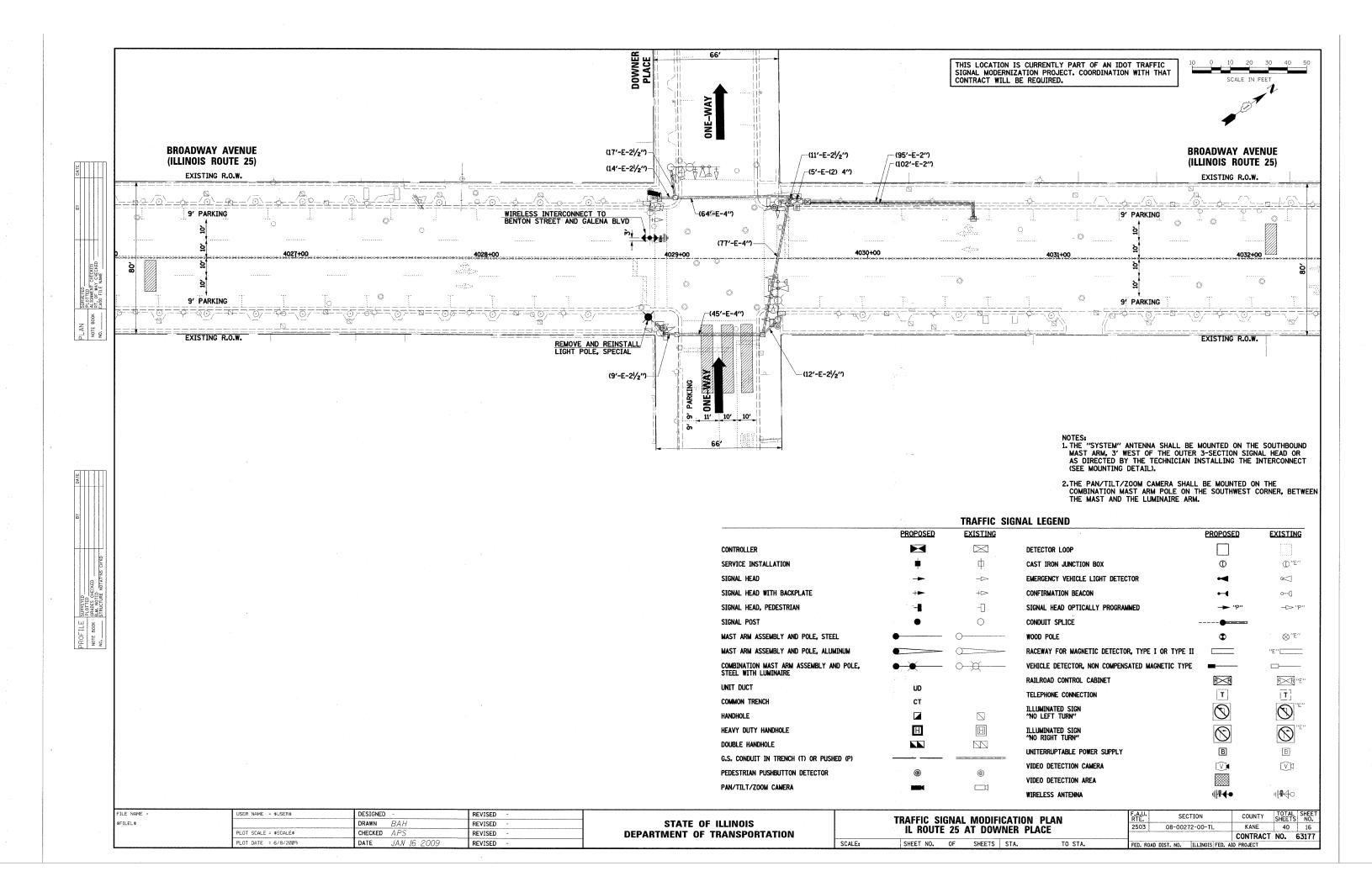
KANE 40 13 SECTION \$FILEL\$ DRAWN RAH **STATE OF ILLINOIS** REVISED STREET NAME SIGNS 2503 08-00272-00-TL IL ROUTE 25 AT NORTH AVENUE PLOT SCALE = \$SCALE\$ CHECKED APS REVISED DEPARTMENT OF TRANSPORTATION CONTRACT NO. 63177 PLOT DATE = 6/8/2009 JAN 16 2009 REVISED SCALE: SHEET NO. OF SHEETS STA.

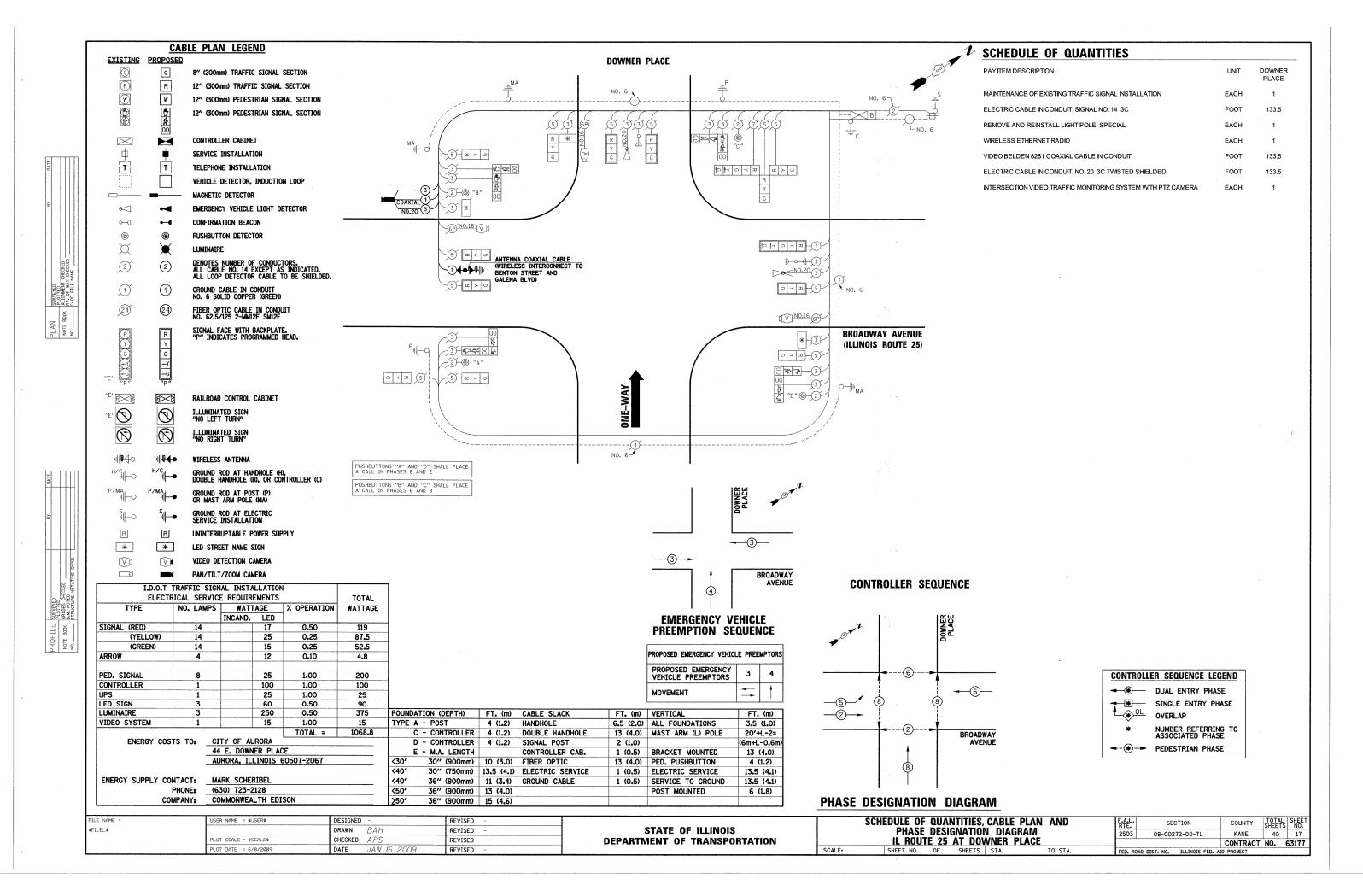
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

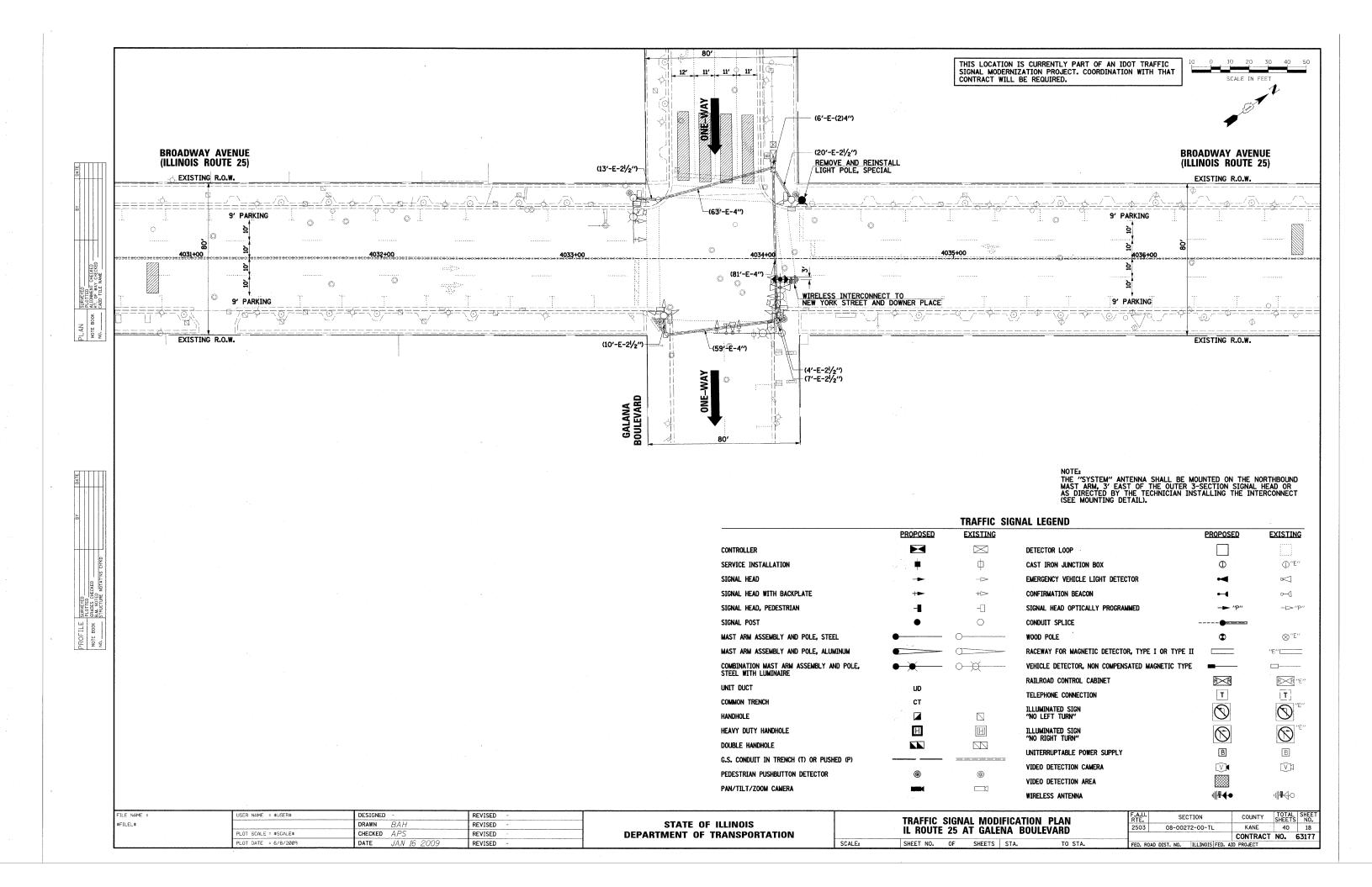
18°

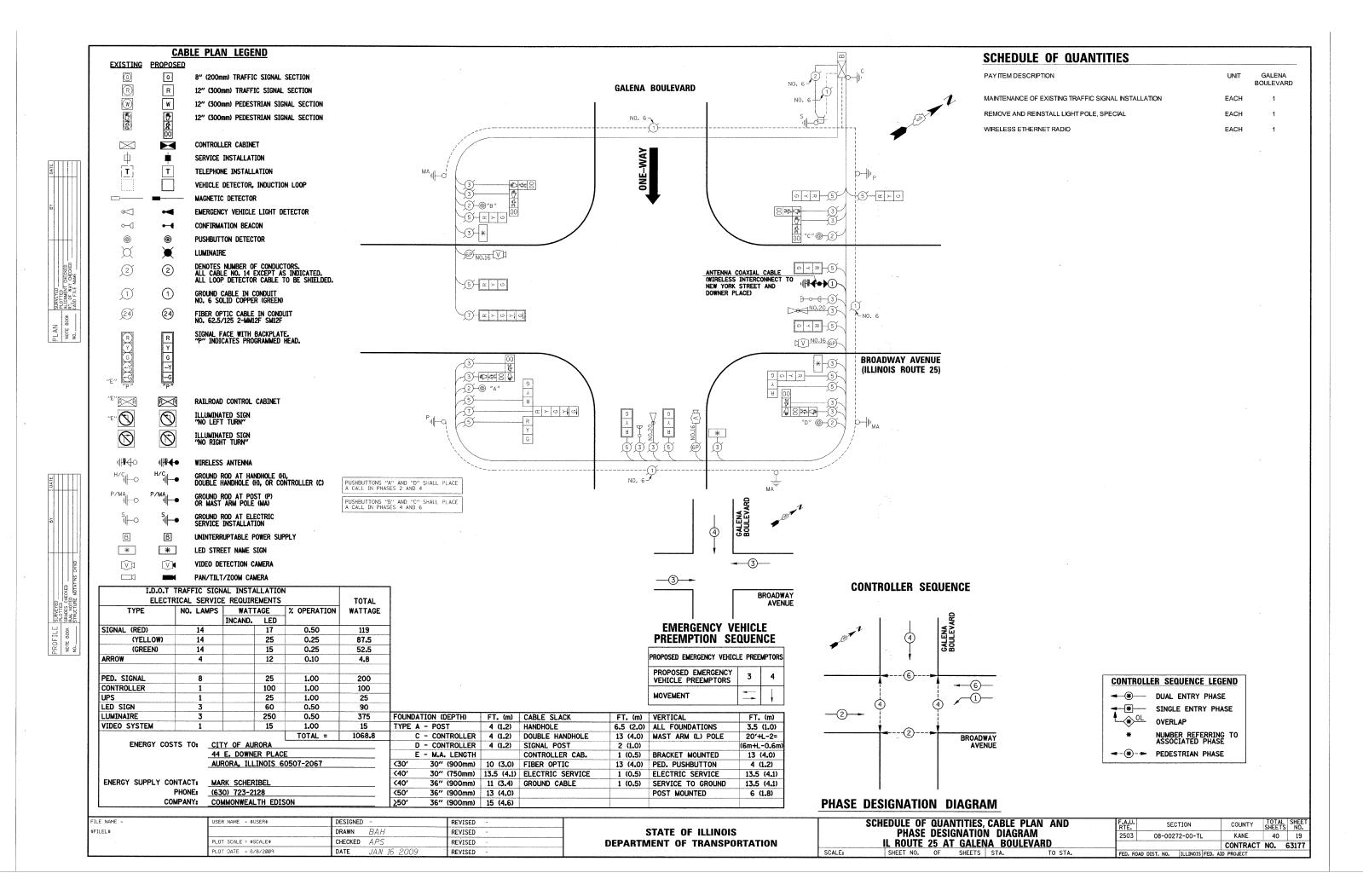


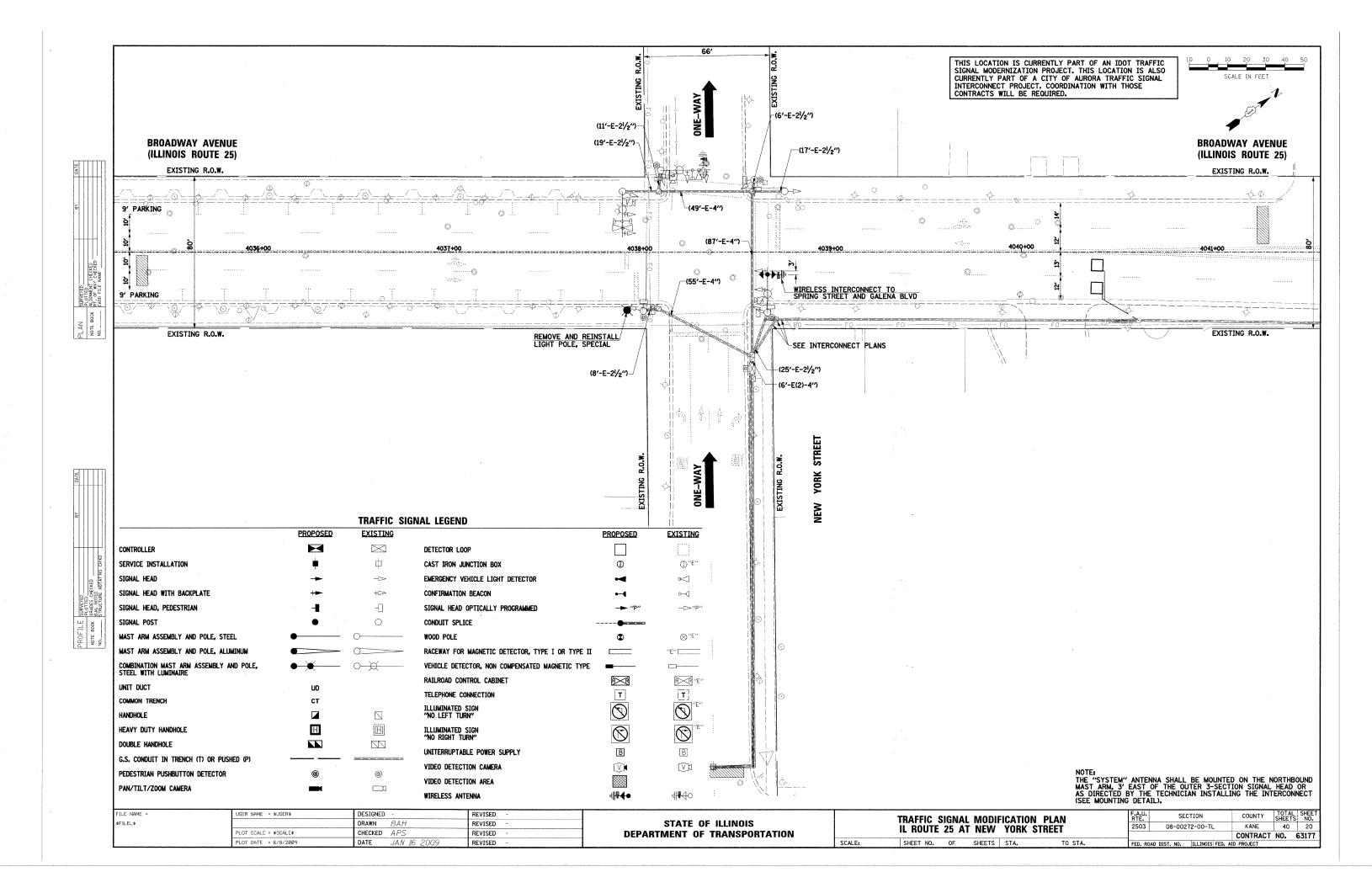


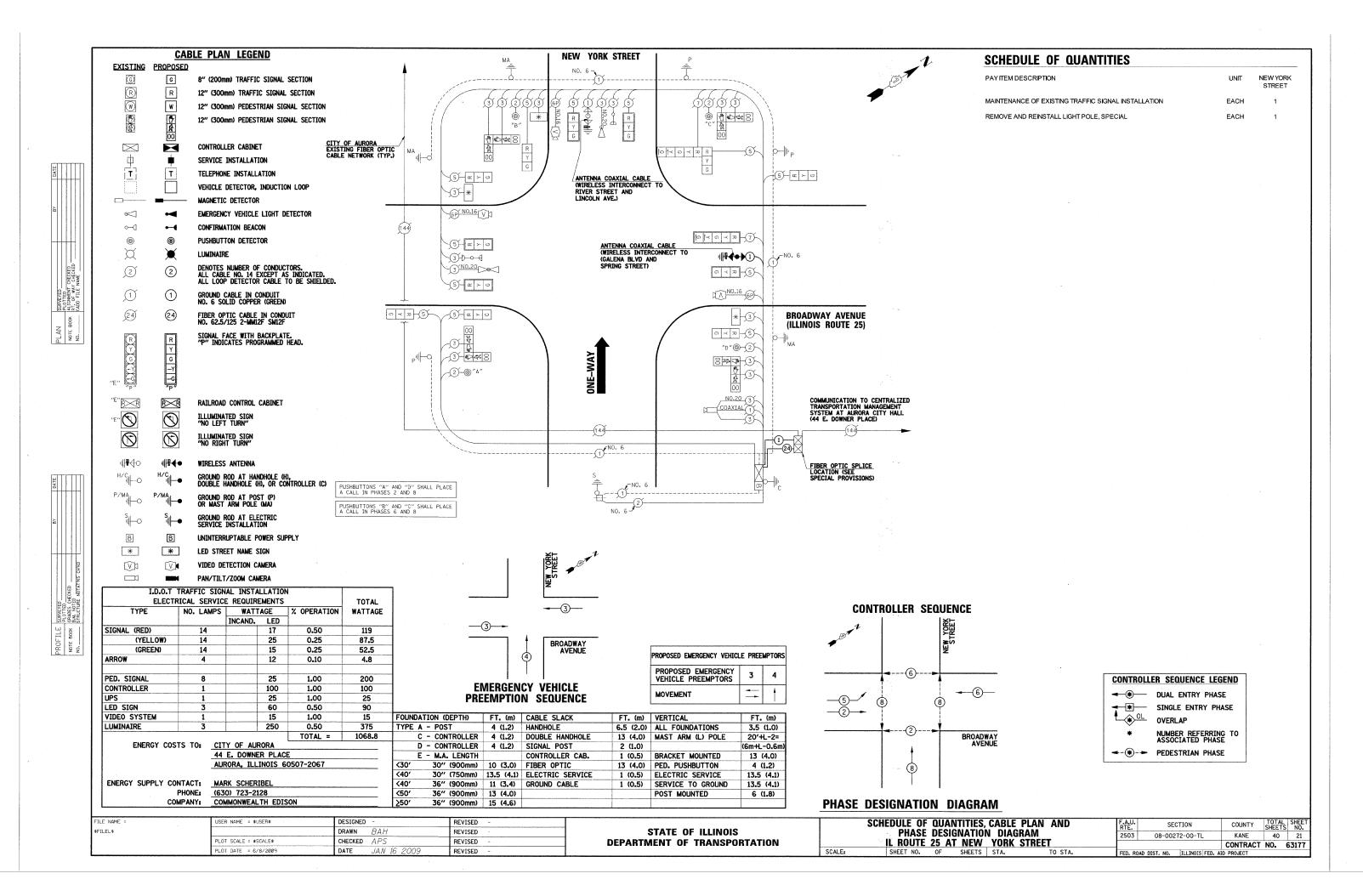


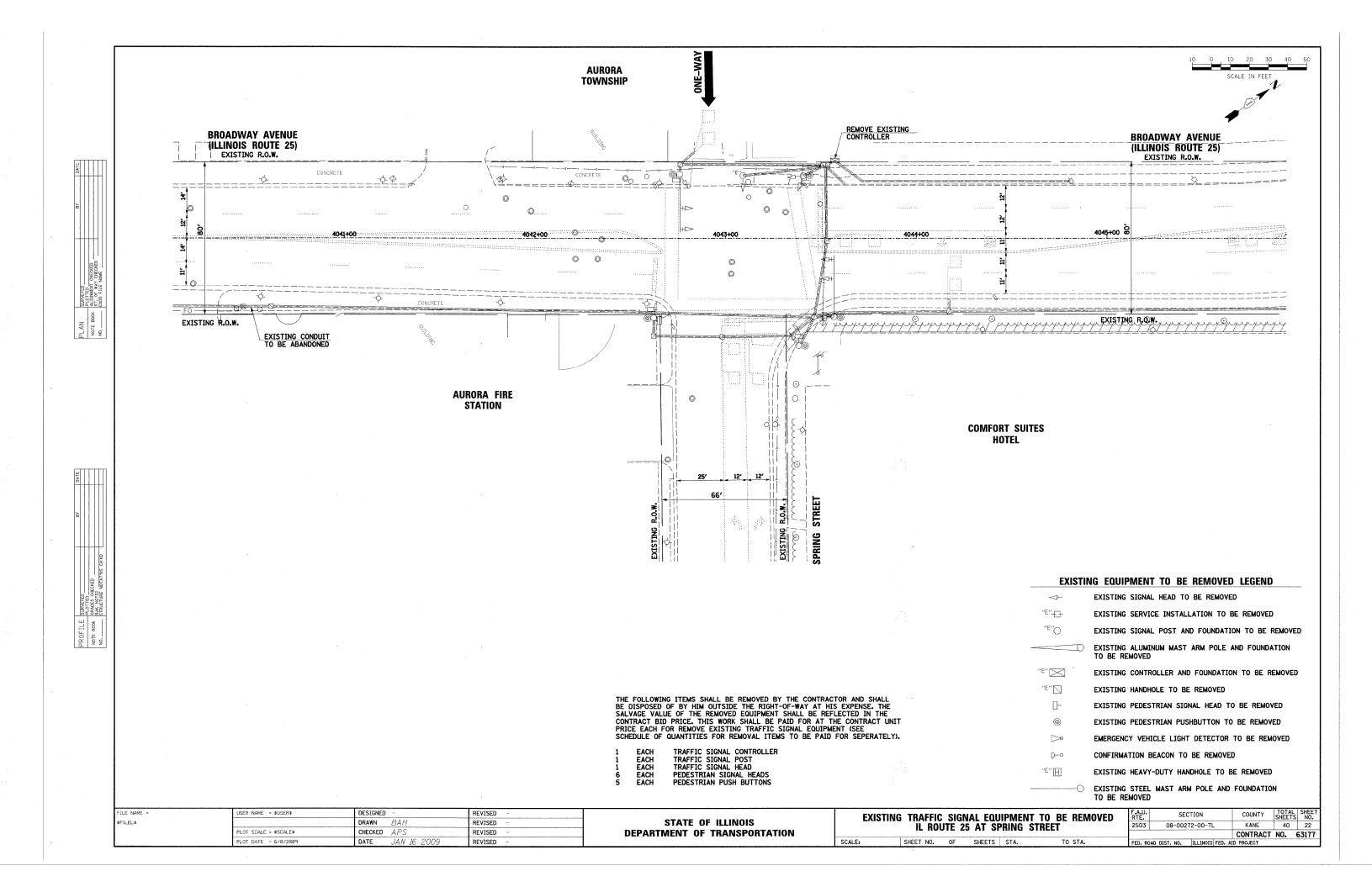


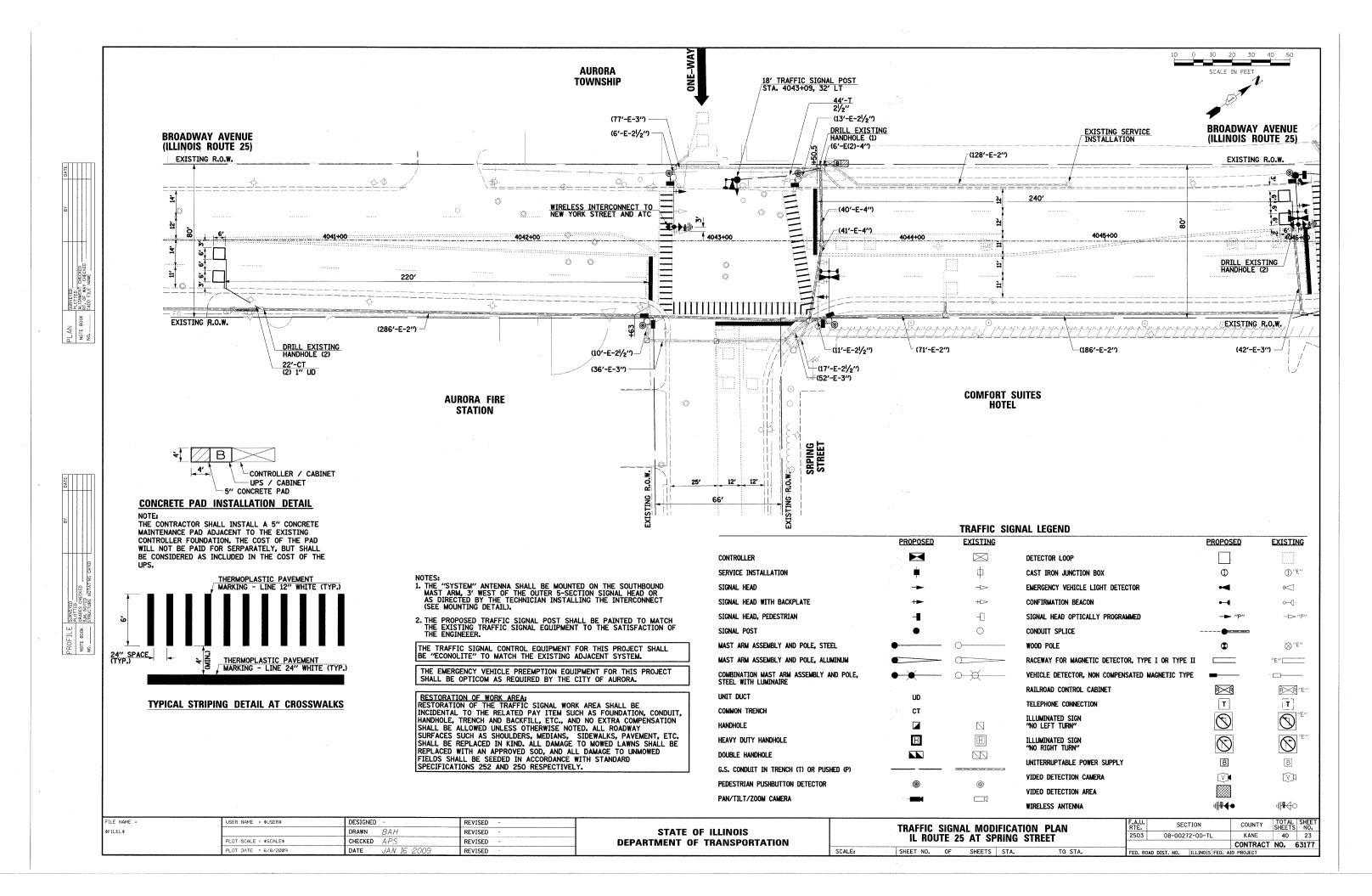


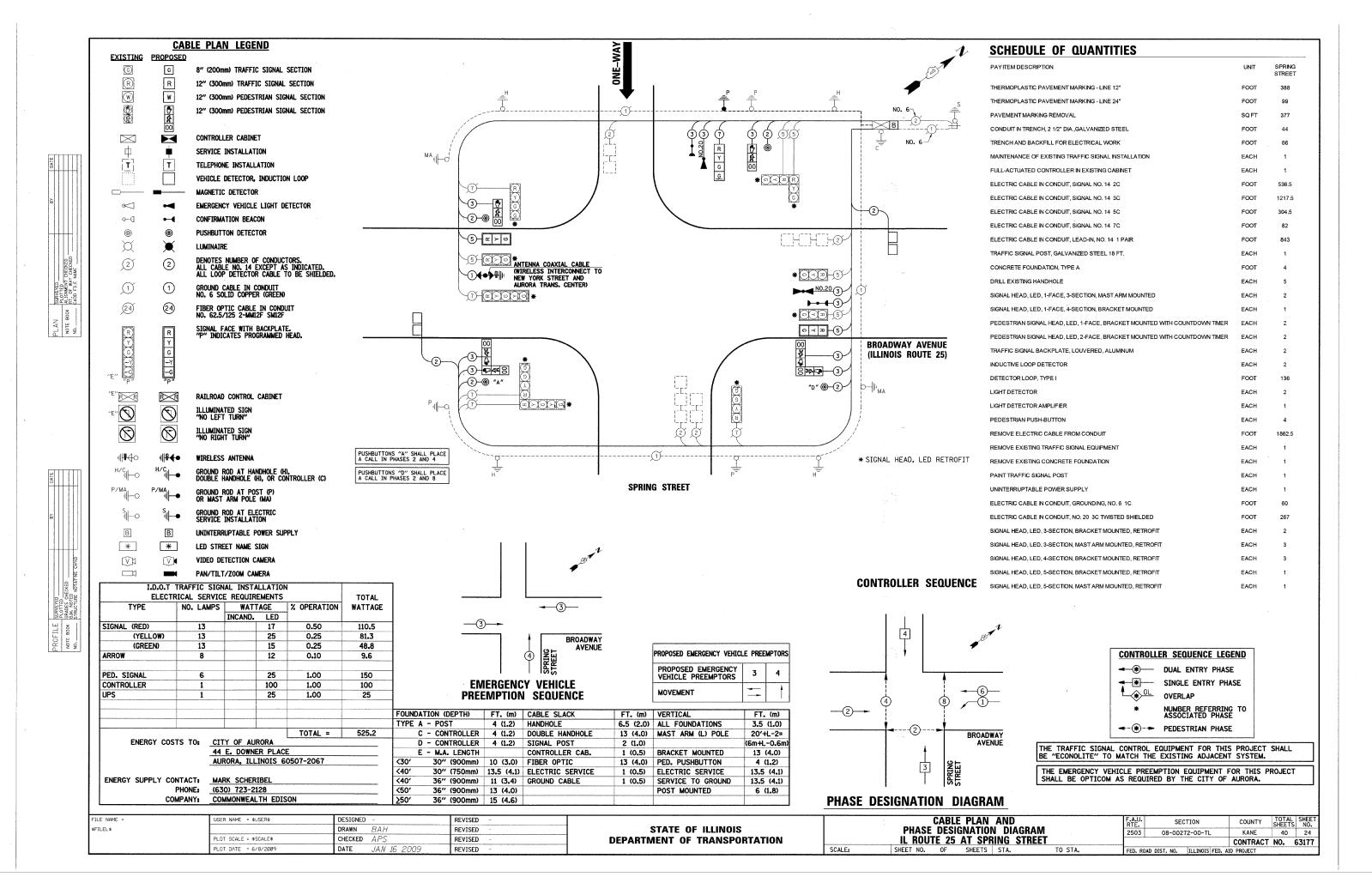


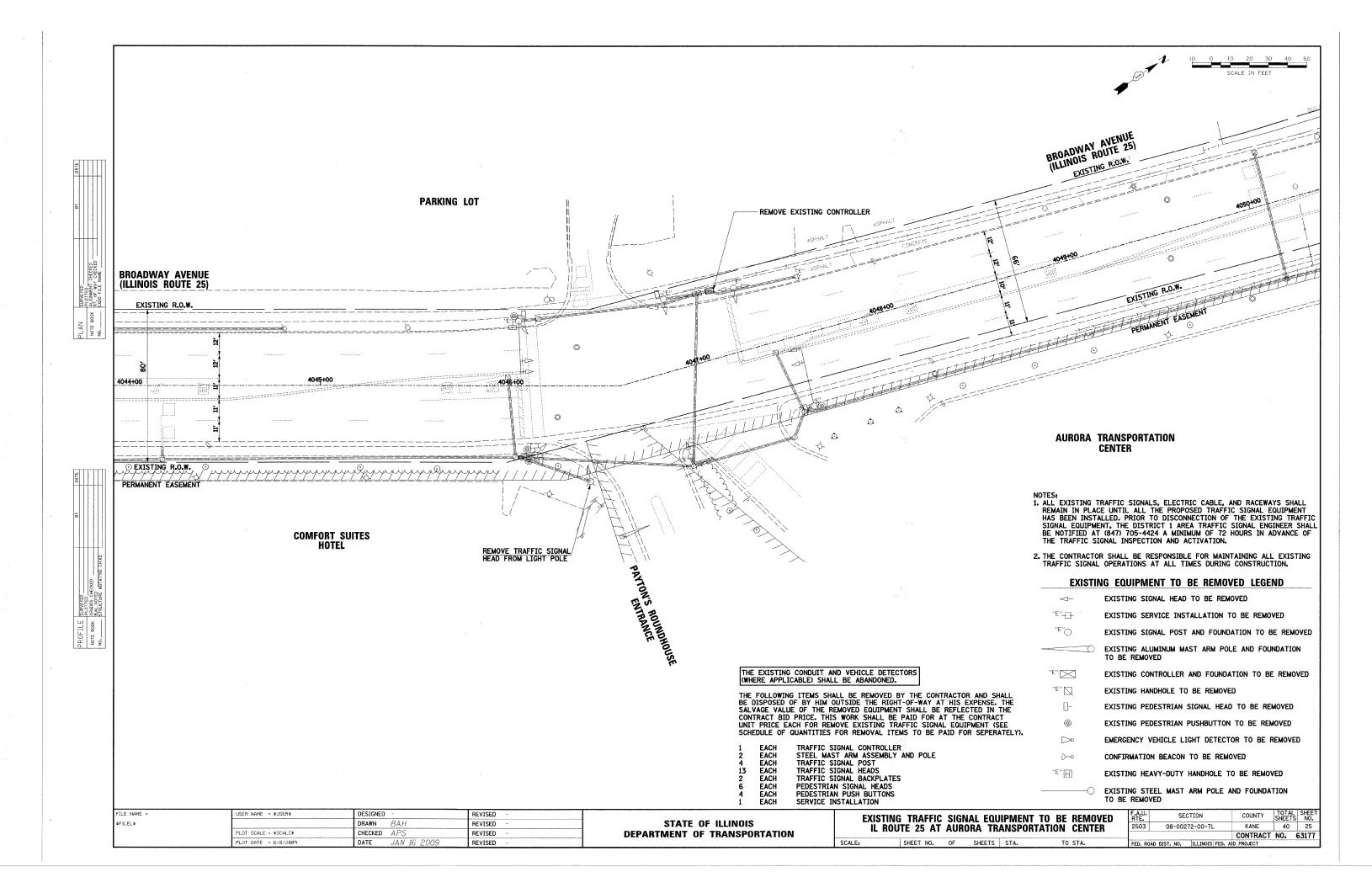


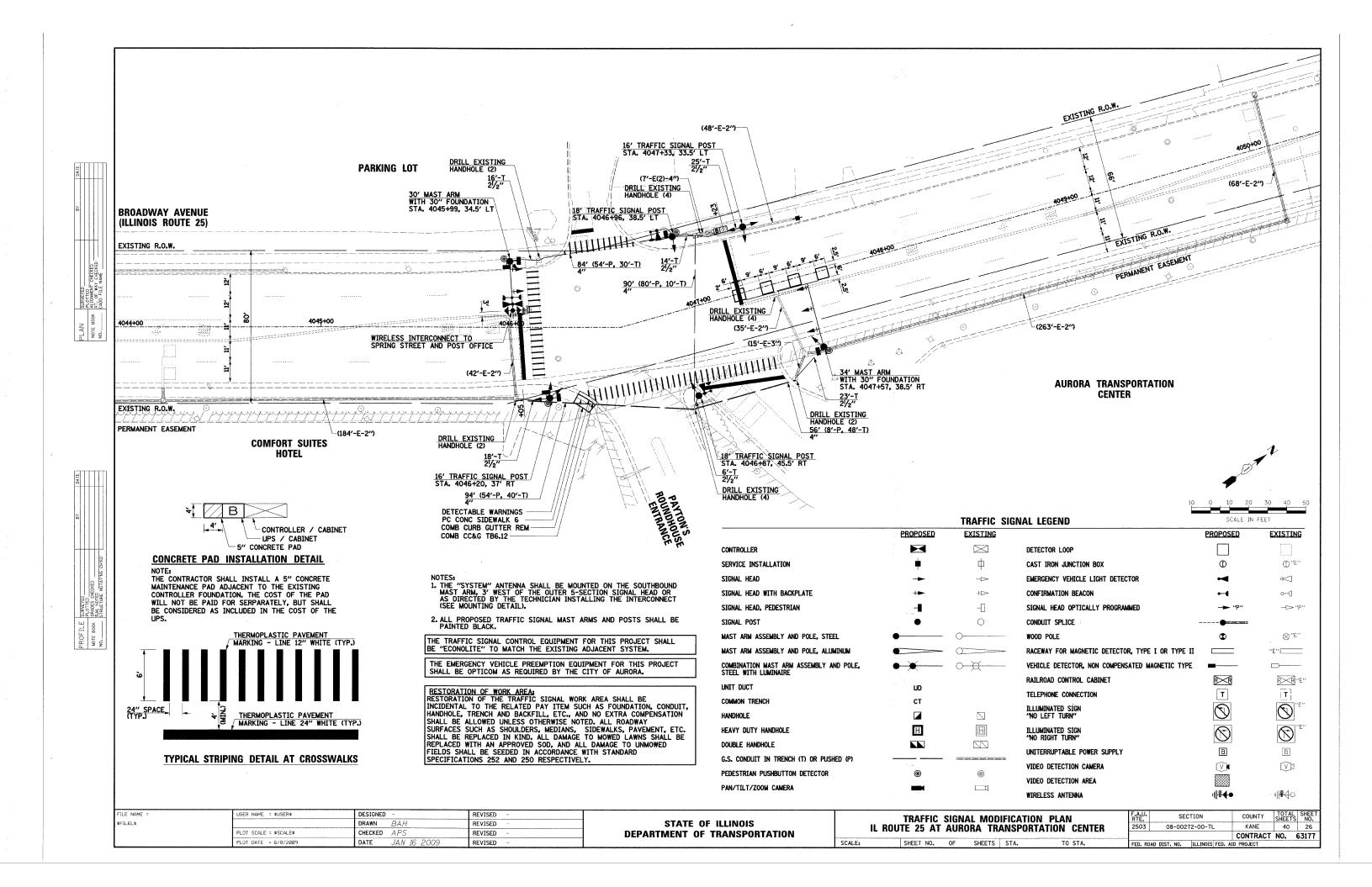


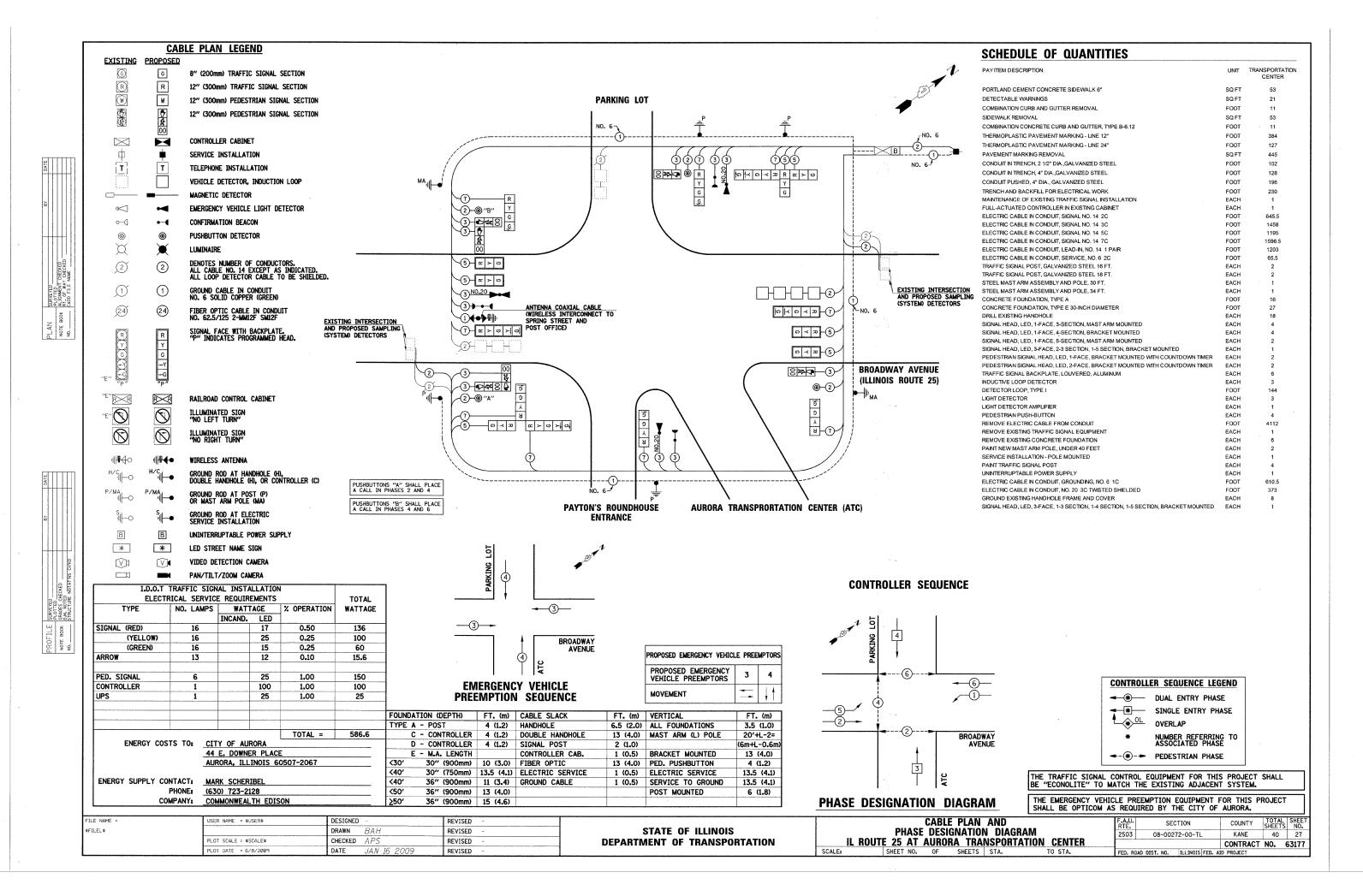


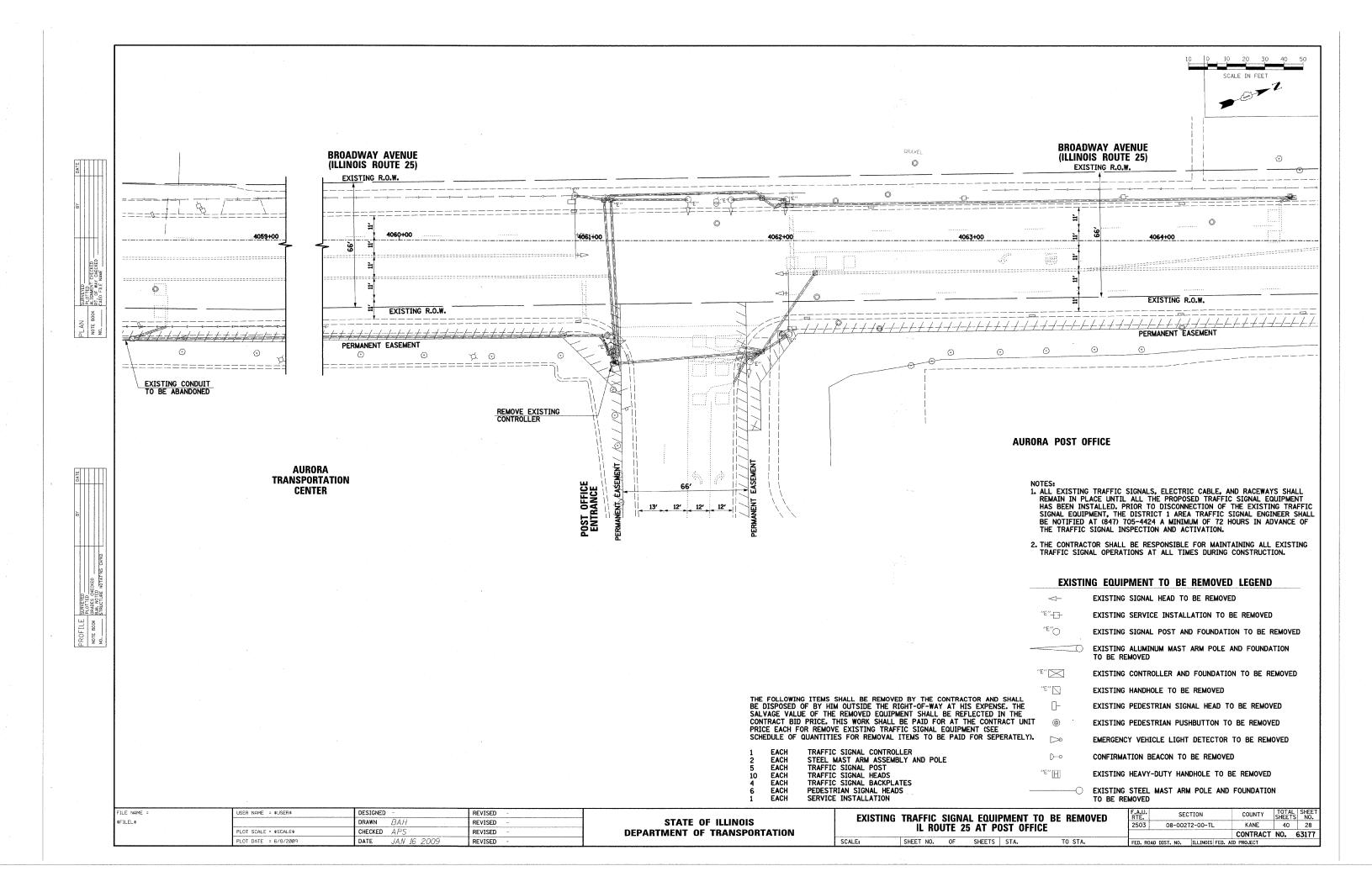


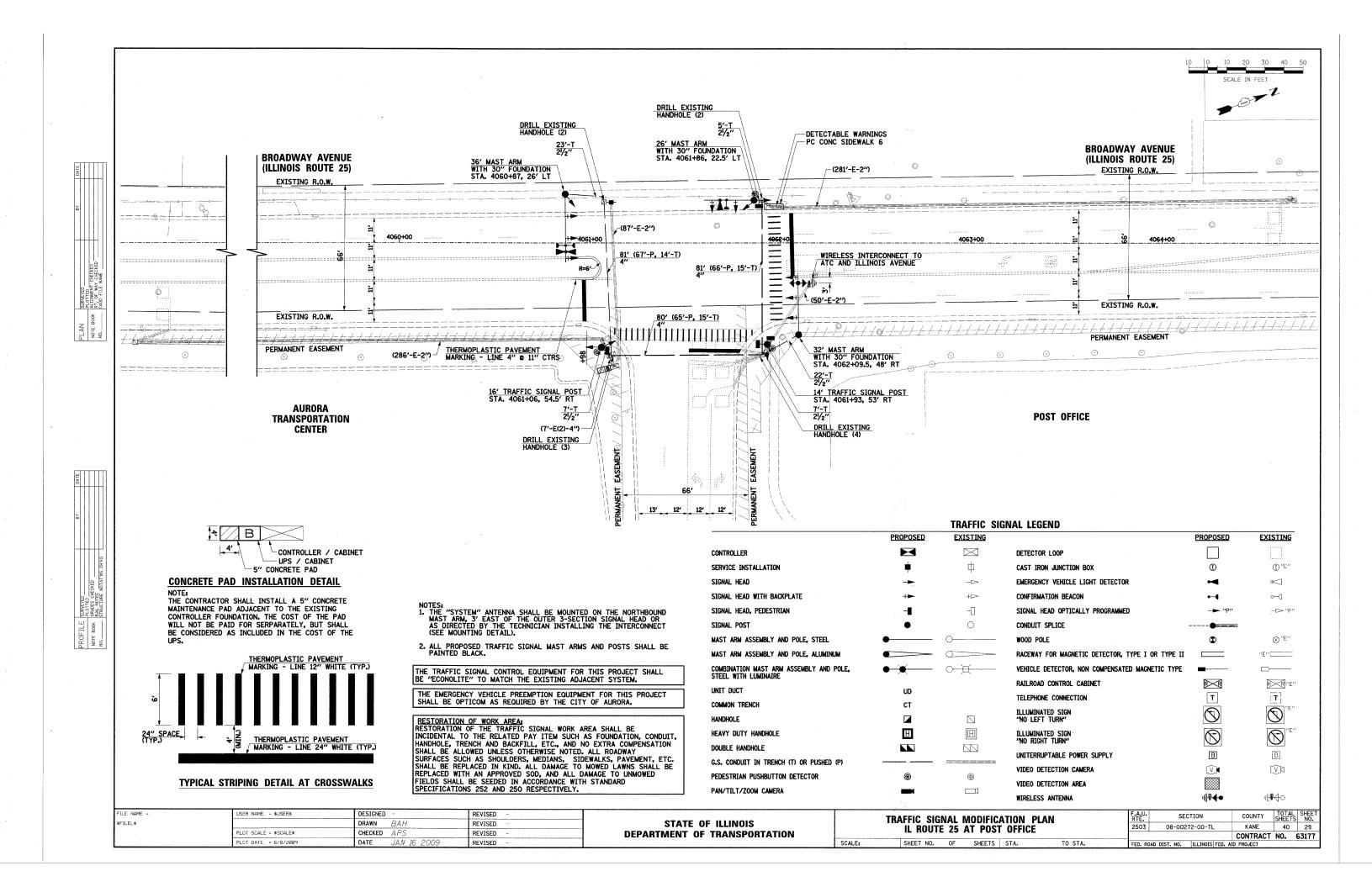


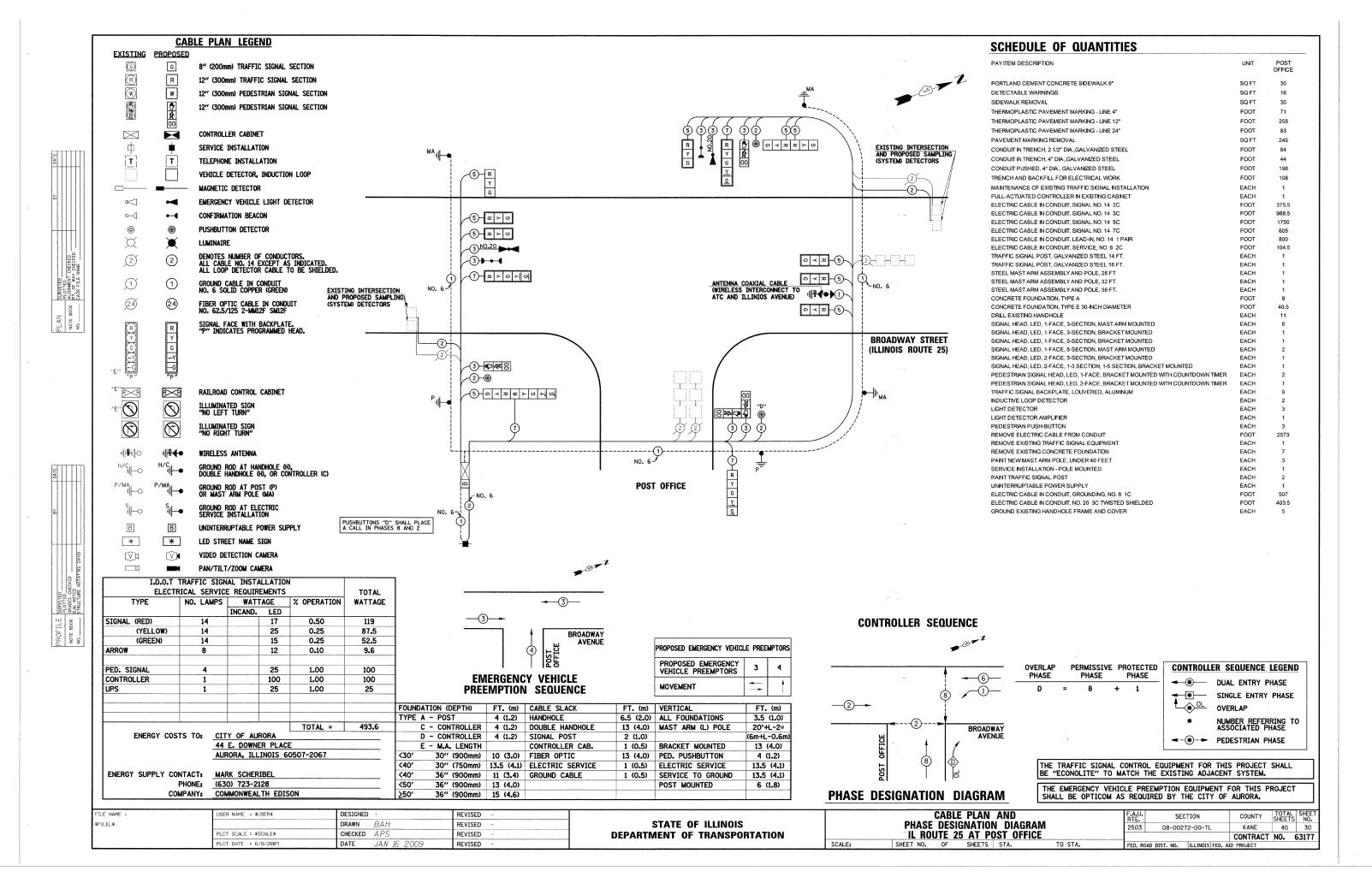


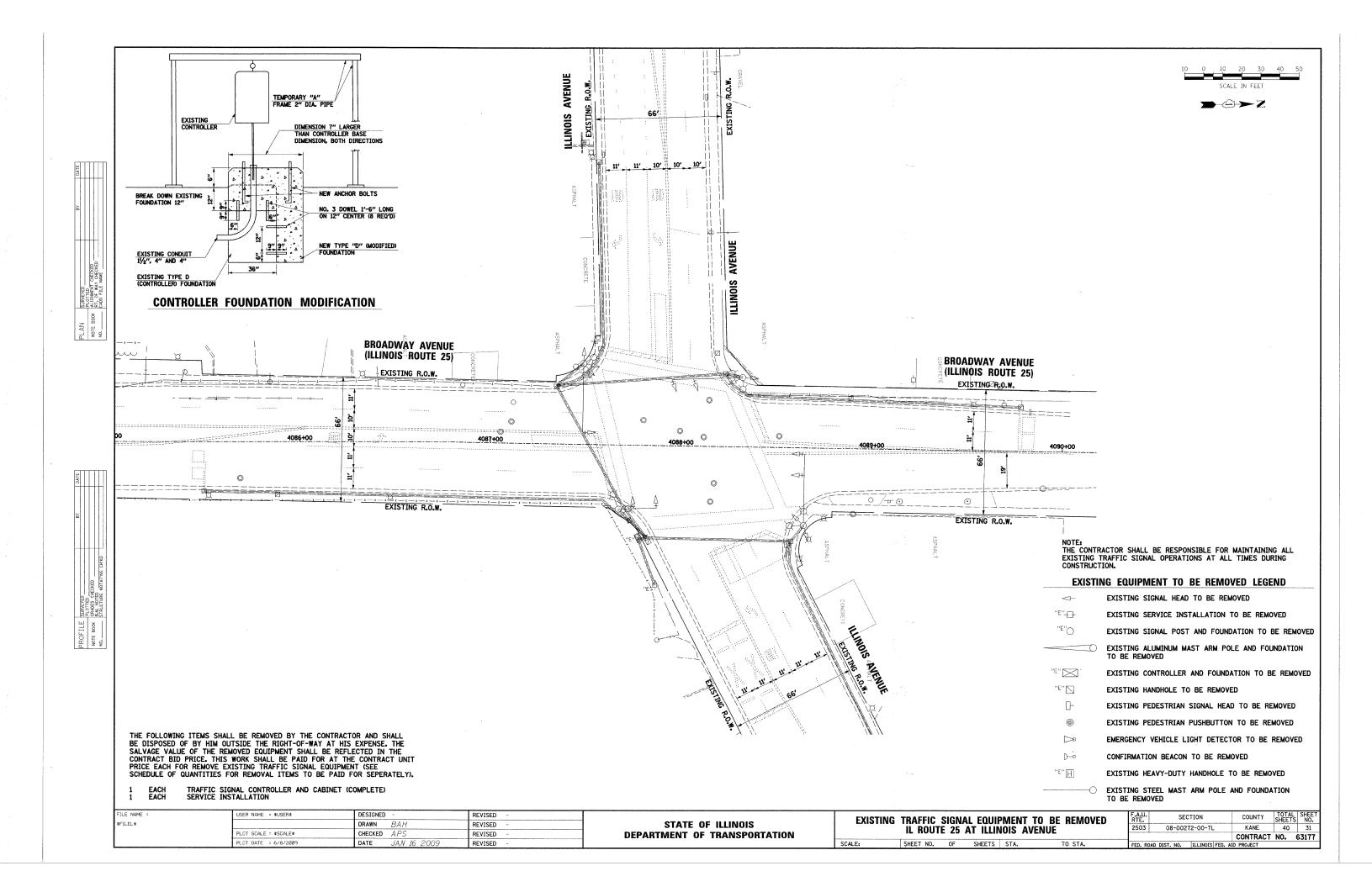


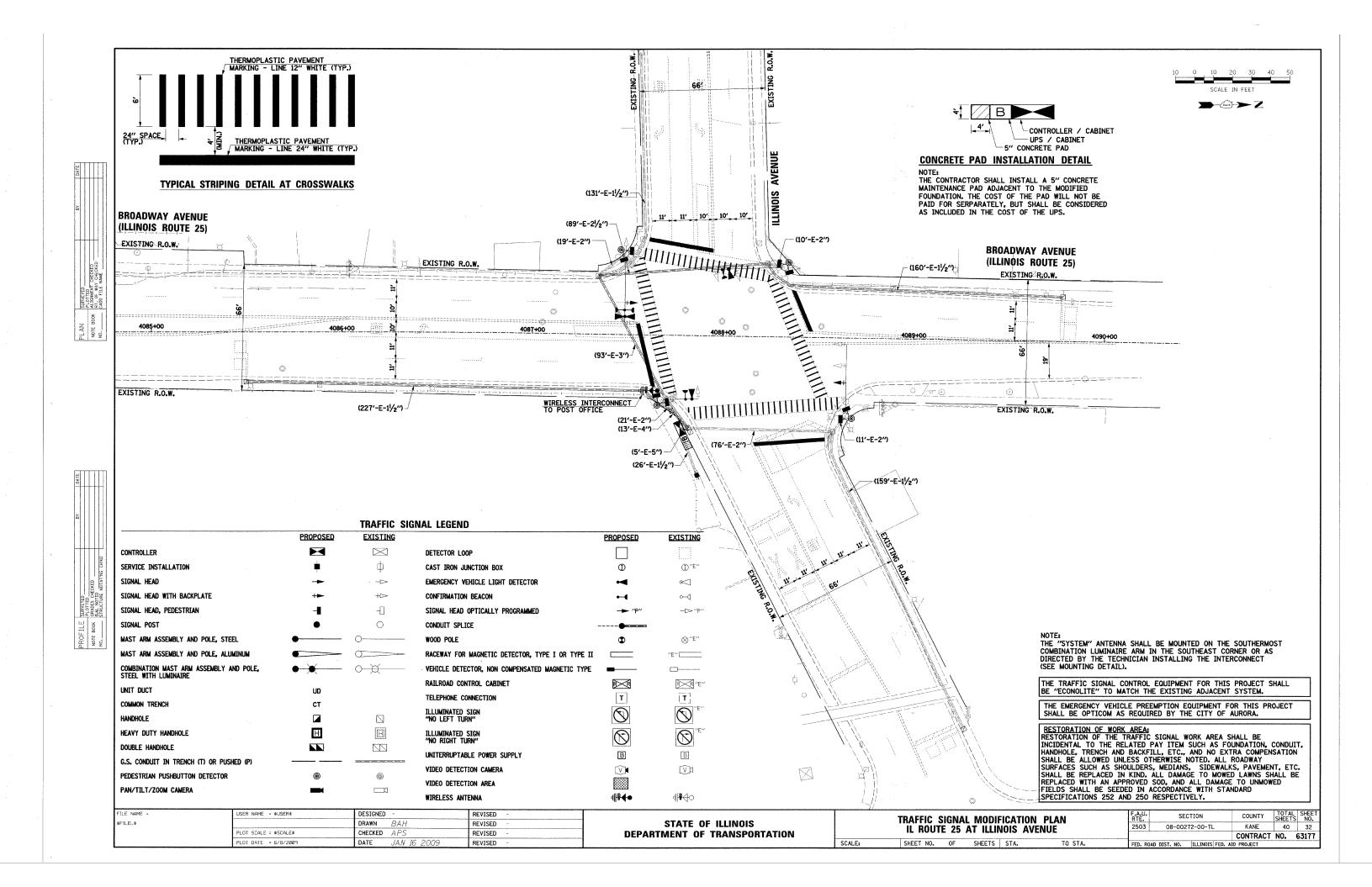


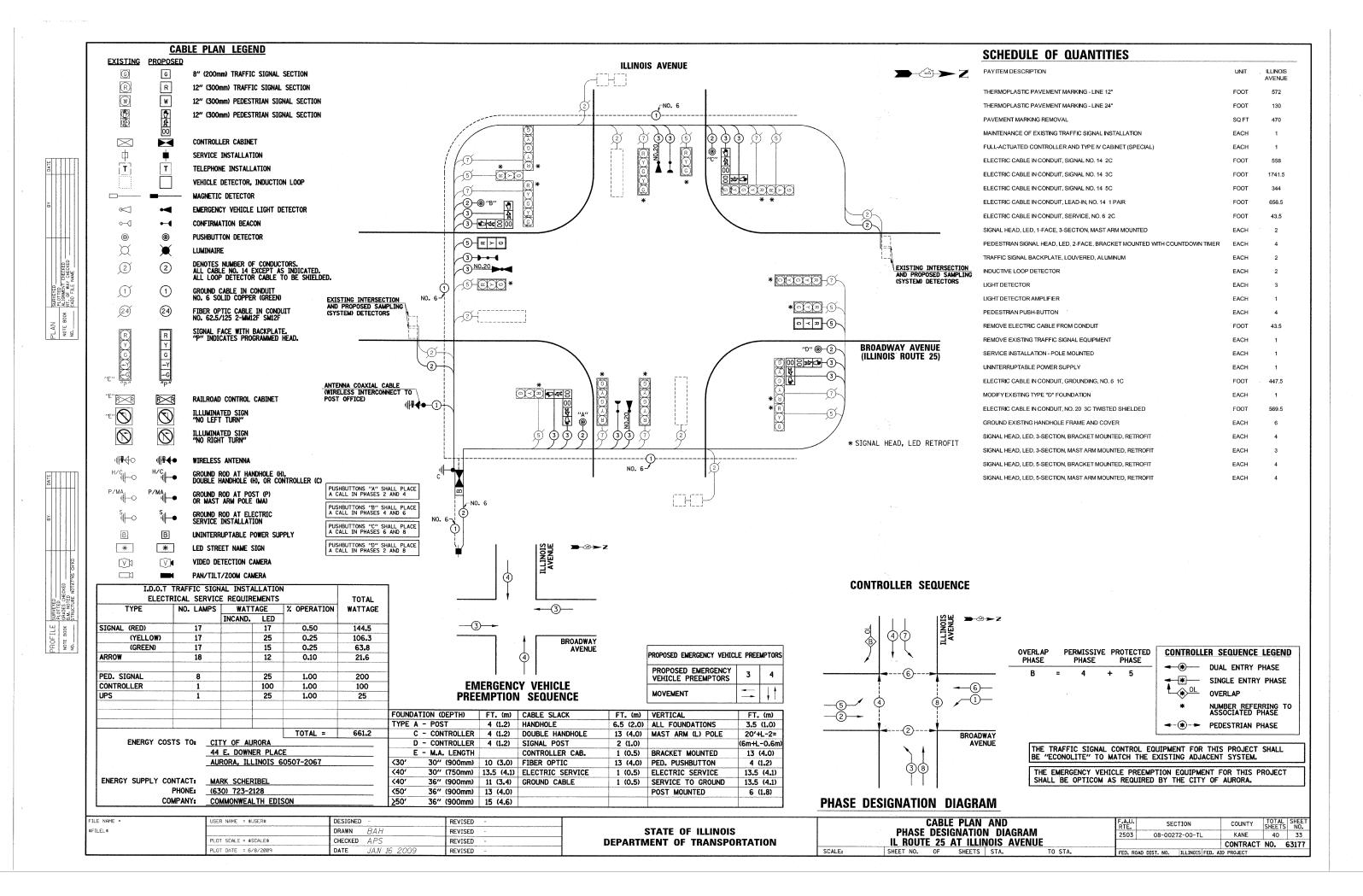


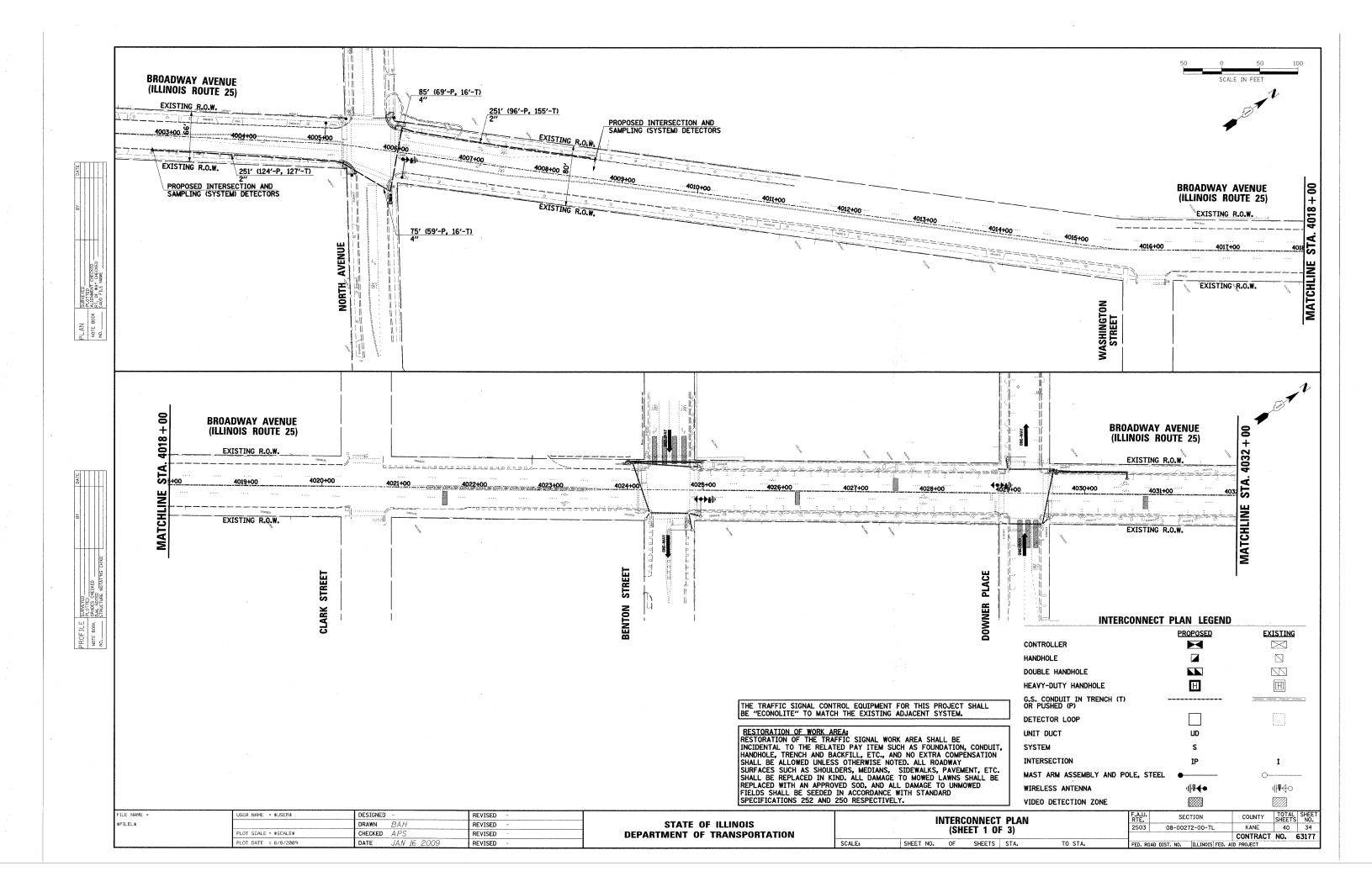


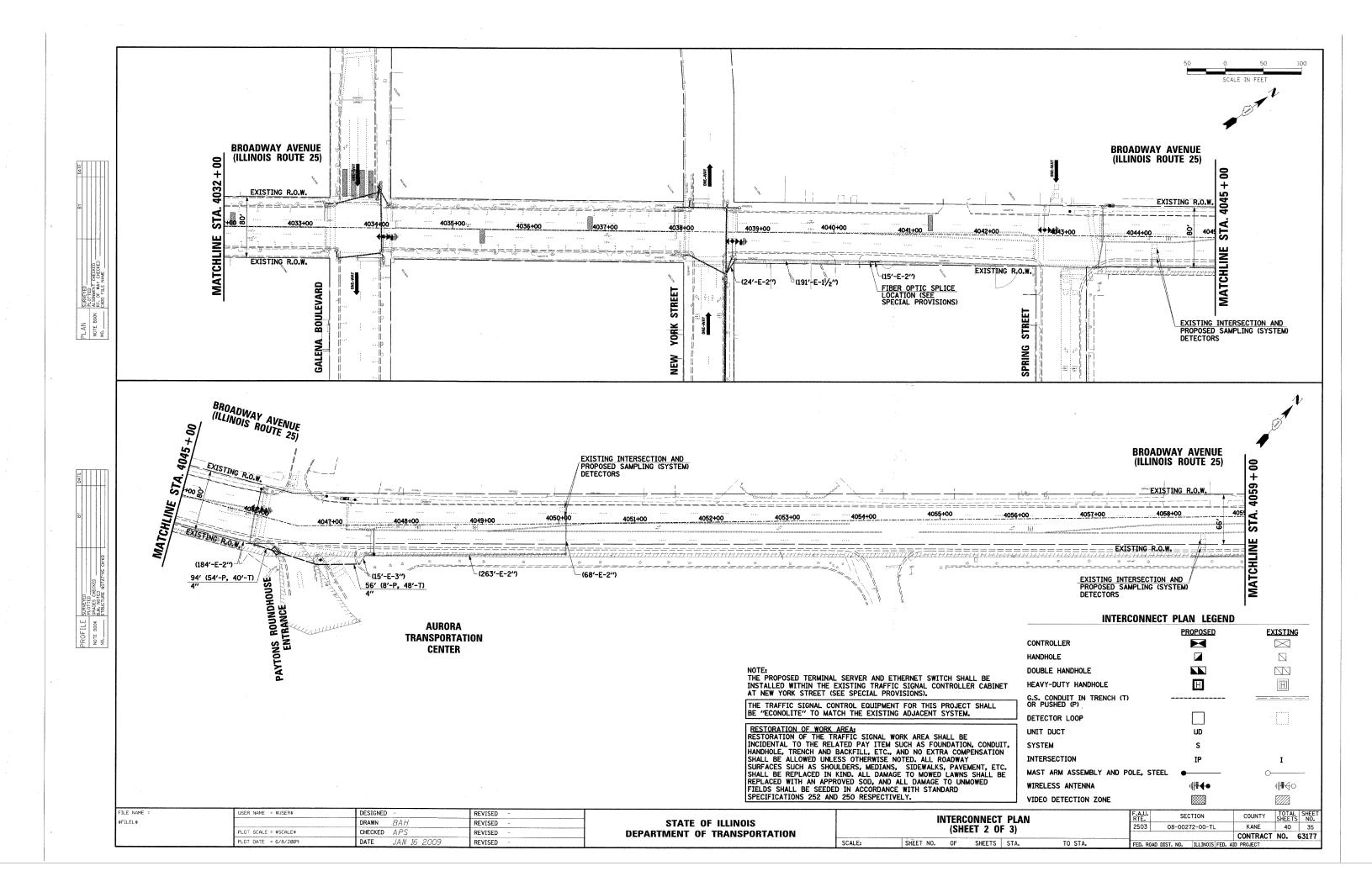


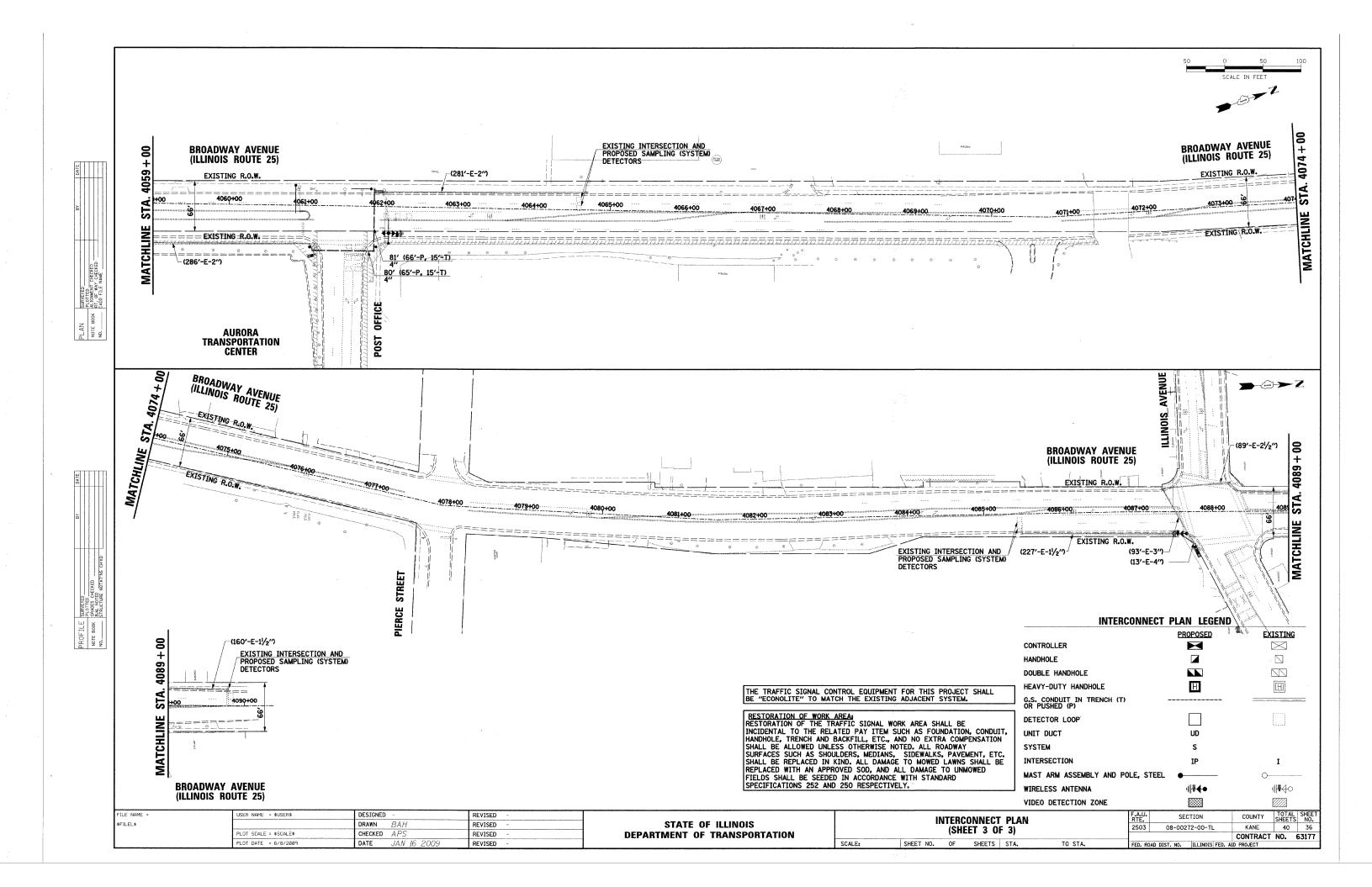


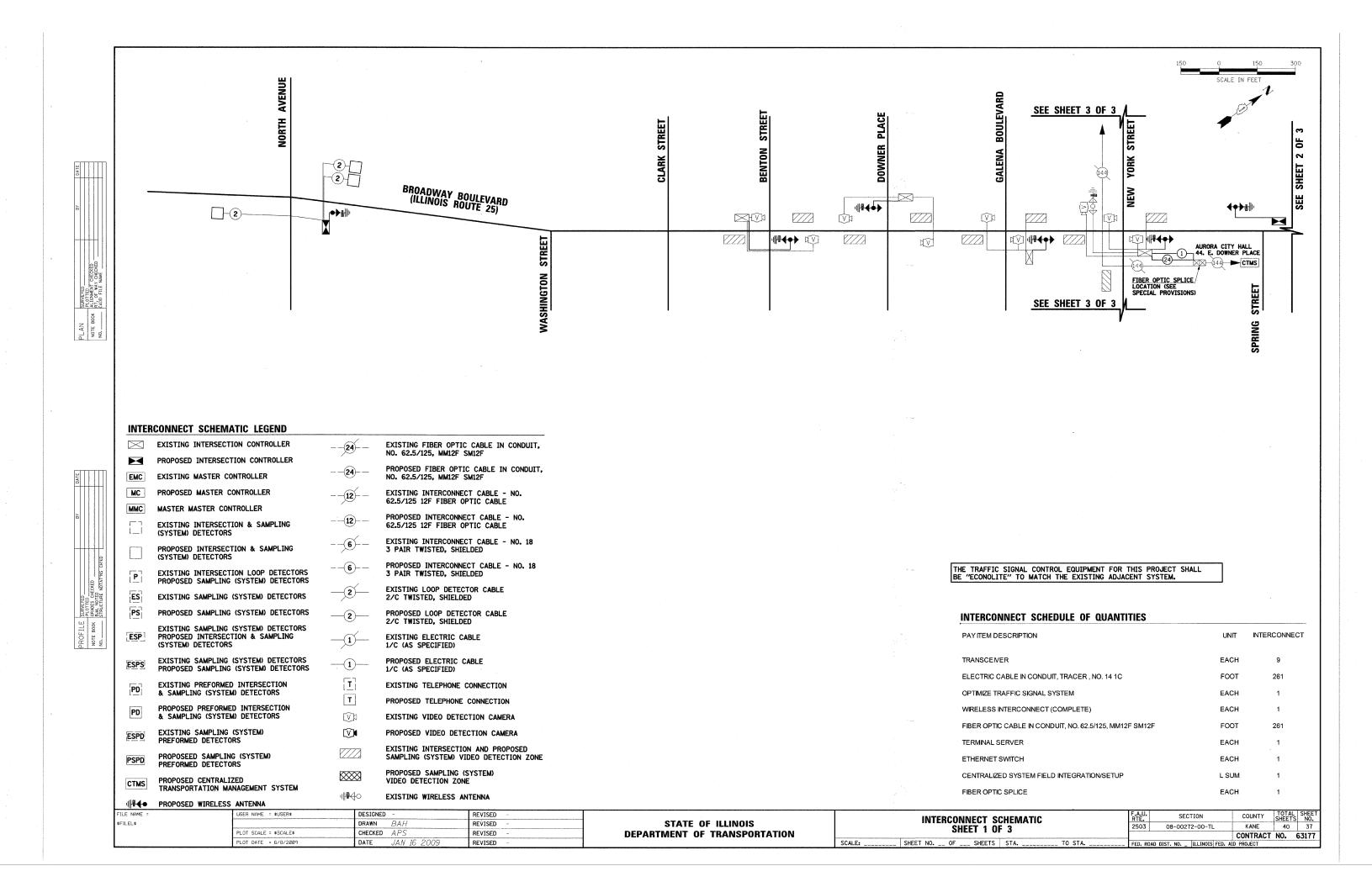


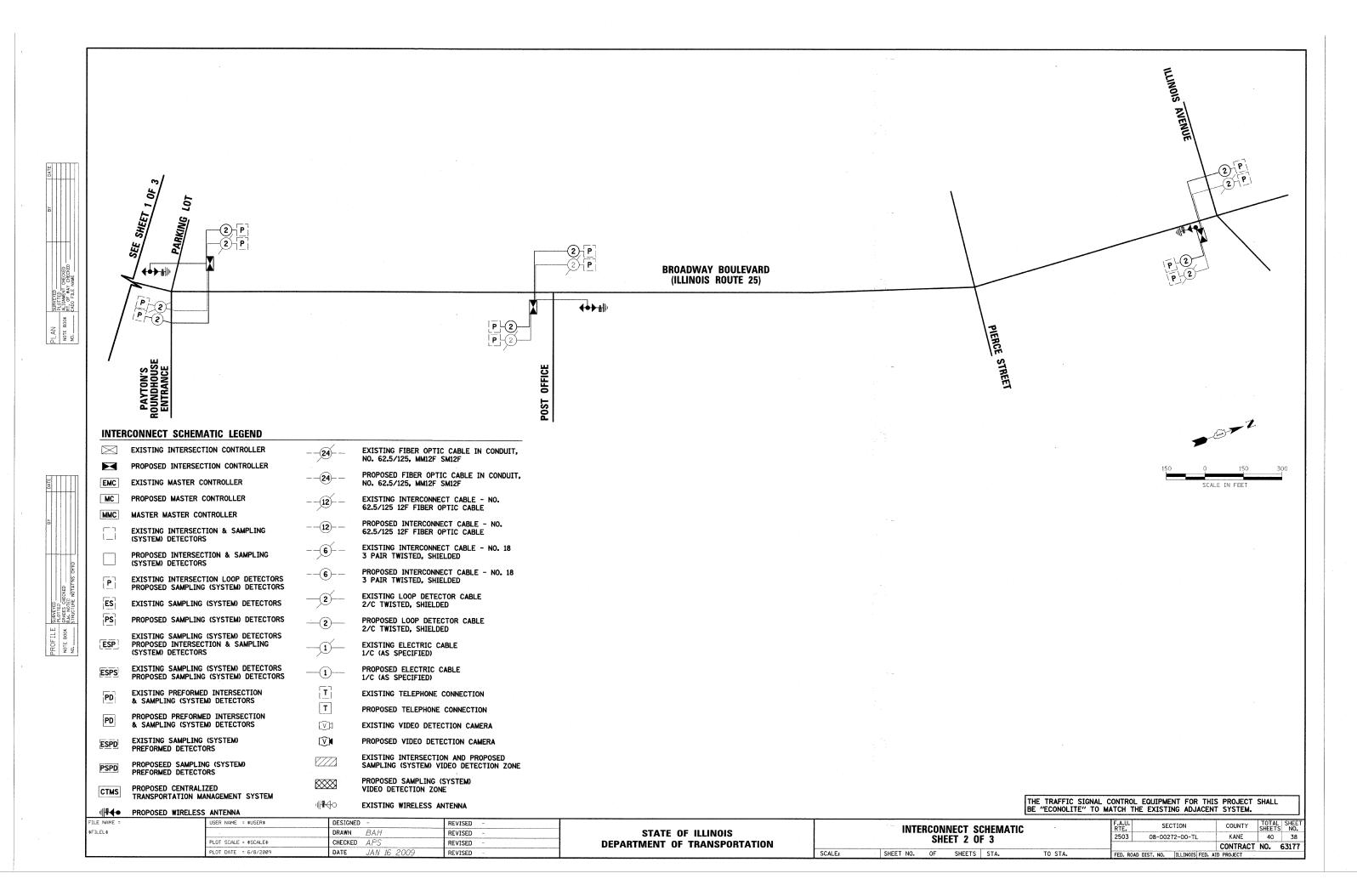


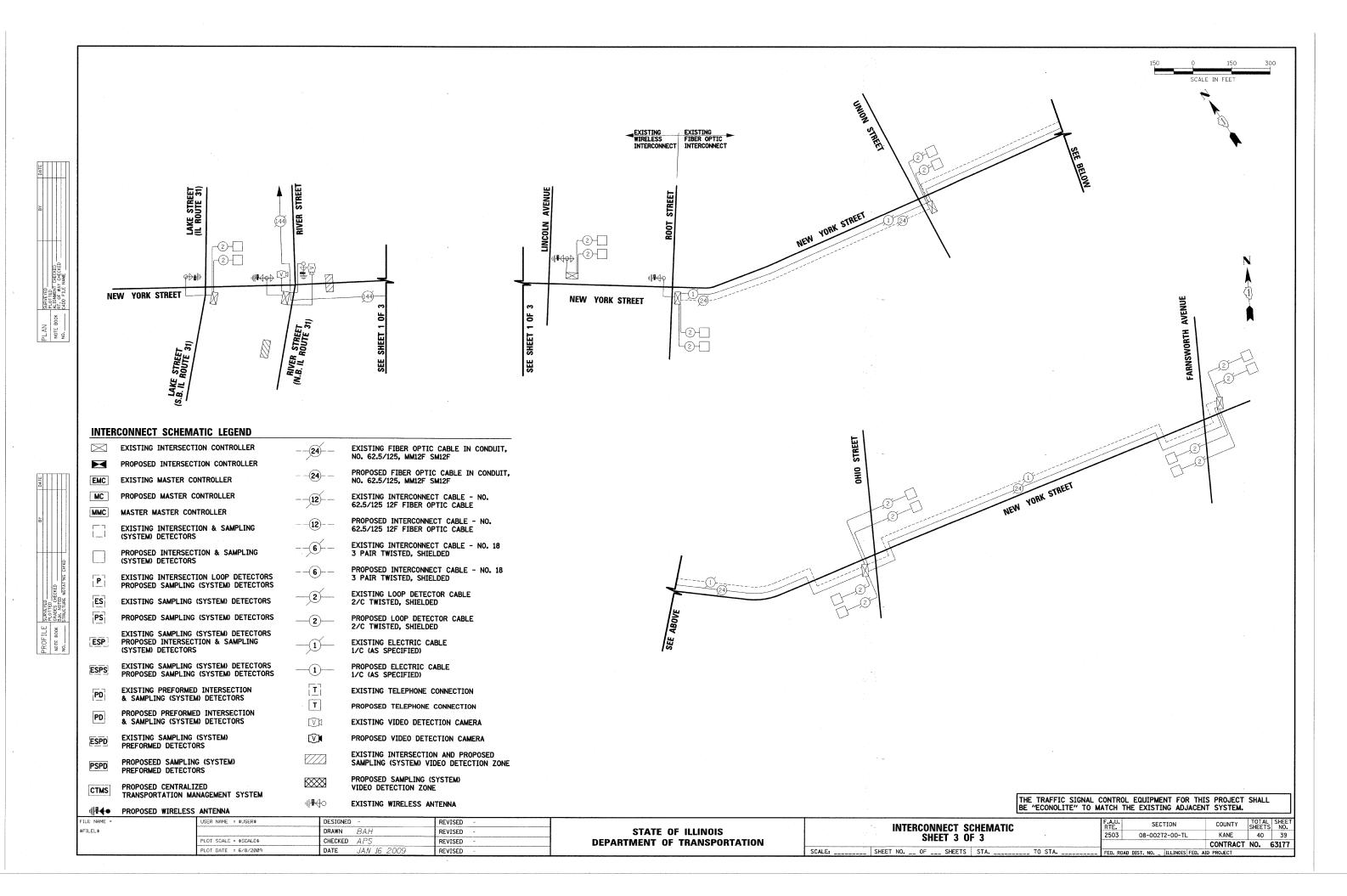












SALIGE SE 300K

SURVEYED
PLOTTED
GRADES CHEC
B.M. NOTED
STRUCTURE N

CONSTRUCTION:

THE LIGHTING POST SHALL BE HIGH-STRENGTH THICK WALLED CAST IRON. THE POLE MATERIAL SHALL CONFORM TO A.S.T.M. A48. CLASS 30 CAST IRON. THE SHAFT SHALL HAVE A DEEP 8-FLUTE PATTERN AND DECORATIVE BASE DESIGN. THE BASE SHALL HAVE AN 181/2" DIAMETER.

THERE SHALL BE (2) ACCESS DOORS IN THE BASE AND (1) HINGED ACCESS DOOR IN THE PEDESTAL. ALL HARDWARE SHALL BE STAINLESS STEEL. A GROUNDING LUG SHALL BE PROVIDED INSIDE ONE ACCESS DOOR.

DIMENSIONS:

THE POST SHALL HAVE A LUMINAIRE MOUNTING HEIGHT OF 12'-3". THE BASE SHALL HAVE AN 181/2" DIAMETER.

LUMINAIRE MOUNTING:

A 3" DIAMETER BY 3" TALL TENON WITH UNDERCUT SHALL BE AN INTEGRAL PART OF THE POLE PROVIDED FOR POST TOP MOUNTING OF LUMINAIRE.

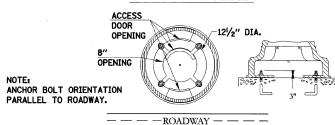
INSTALLATION: (SEE DRAWING FOR DETAILS) THE LIGHTING POLE SHALL BE PROVIDED WITH (4) 34" DIAMETER X 24" LONG "L-TYPE" ANCHOR BOLTS. EACH ANCHOR BOLT SHALL BE SUPPLIED ASSEMBLED WITH (2) NUTS, (2) FLAT WASHERS AND (1) SPLIT LOCK WASHER. THE POLE SHALL HAVE A 12" DIAMETER BOLT CIRCLE AND REQUIRES A 3" ANCHOR BOLT PROJECTION. ALL ANCHORAGE HARDWARE SHALL BE FULLY GALVANIZED.

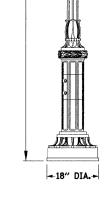
FINISH:

THE POLE SHALL BE SUPPLIED PRIME PAINTED WITH RED OXIDE PRIMER.

CATALOG NUMBER: SCI-B-F-12'
COLOR: BLACK

INSTALLATION DETAIL



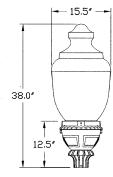


12'-3"

REMOVE AND REINSTALL LIGHT POLE, SPECIAL (POLE DETAIL)

SENTRY ELECTRIC = SCI-B-F-12' CAST IRON "B" SERIES POLE (SEE SPECIAL PROVISIONS)

- 1. SIX DIFFERENT ACORN GLOBE CONFIGURATIONS.
 2. ORNAMENTAL HEAVY GAGE CAST ALUMINUM POLE TOP SLIPFITTER.
- INTEGRAL BALLAST.
- MOGUL BASE SOCKET STANDARD.
- MEDIUM BASE SOCKET AVAILABLE (CONTACT FACTORY).
- UV STABILIZED FOR COLOR CLARITY. IMPACT RESISTANT DOWN TO -40° F.
- TERMINAL BOARD STANDARD.
- ALUMINUM BALLAST COVER.
- TWIST LOCK PE RECEPTACLE MOUNTED IN DOOR.
- LUMINAIRE SHIPPED AS COMPONENTS: BALLAST, OPTICAL.

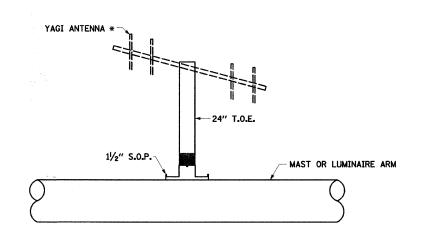


GLOBE 1H

REMOVE AND REINSTALL LIGHT POLE, SPECIAL (LUMINAIRE DETAIL)

GE PATRIARCH LUMINAIRE (SEE SPECIAL PROVISIONS)

								*		
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -				F.A.U.	SECTION	COUNTY	TOTAL SHEET
\$FILEL\$		DRAWN BAH	REVISED -	STATE OF ILLINOIS		MISCELLANEOUS DETAILS	2503	08-00272-00-TL	KANE	40 40
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION			2500	00 00212 00 12	CONTRACT	T NO. 63177
	PLOT DATE = 6/8/2009	DATE JAN 16 2009	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED.		, 00111



WIRELESS ANTENNA MOUNTING DETAIL

* OR EQUAL APPROVED BY THE CITY OF AURORA.