COVER SHEET SUMMARY OF QUANTITIES

STANDARD TRAFFIC SIGNAL DESIGN STANDARDS

EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - LAKE STREET

TRAFFIC SIGNAL MODIFICATION PLAN - LAKE STREET

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - LAKE STREET TRAFFIC SIGNAL MODIFICATION PLAN - RIVER STREET

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - RIVER STREET

EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - STOLP AVENUE

TRAFFIC SIGNAL MODIFICATION PLAN - STOLP AVENUE CABLE PLAN AND PHASE DESIGNATION DIAGRAM - STOLP AVENUE

TRAFFIC SIGNAL MODIFICATION PLAN - BROADWAY AVENUE

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - BROADWAY AVENUE

EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - LINCOLN AVENUE TRAFFIC SIGNAL MODIFICATION PLAN - LINCOLN AVENUE

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - LINCOLN AVENUE

EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - ROOT STREET

TRAFFIC SIGNAL MODIFICATION PLAN - ROOT STREET

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - ROOT STREET MAST ARM MOUNTED STREET NAME SIGNS - ROOT STREET

TRAFFIC SIGNAL MODIFICATION PLAN - UNION STREET

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - UNION STREET EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - OHIO STREET

TRAFFIC SIGNAL MODIFICATION PLAN - OHIO STREET

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - OHIO STREET

MAST ARM MOUNTED STREET NAME SIGNS - OHIO STREET

33-35 INTERCONNECT PLAN

36-38 INTERCONNECT SCHEMATIC

TRAFFIC CONTROL AND PROTECTION DETAIL

40-44 MISCELLANEOUS DETAILS

HIGHWAY STANDARDS

424001-05 CURB RAMPS FOR SIDEWALKS

701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM EDGE OF PAVEMENT

701011-02 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY

701101-02 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE

701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701601-06 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

BEGIN PROJECT

STA: 4982 + 00.00

GALENA BOULEVARD

701701-06 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701801-04 LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE

701901-01 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DETAILS

720006-02 SIGN PANEL ERECTION DETAILS 720016-02 MAST ARM MOUNTED STREET NAME SIGNS

805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS

814001-02 HANDHOLES

814006-02 DOUBLE HANDHOLES

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS) 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING

877001-04 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'

877011-04 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'

878001-08 CONCRETE FOUNDATION DETAILS

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

886001-01 DETECTOR LOOP INSTALLATIONS 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 825001 LIGHTING CONTROLLER, 240V, POLE MOUNTED

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATION

1-800-892-0123 (CALL 48 HOURS IN ADVANCE)

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

CONTRACT NO: 63300

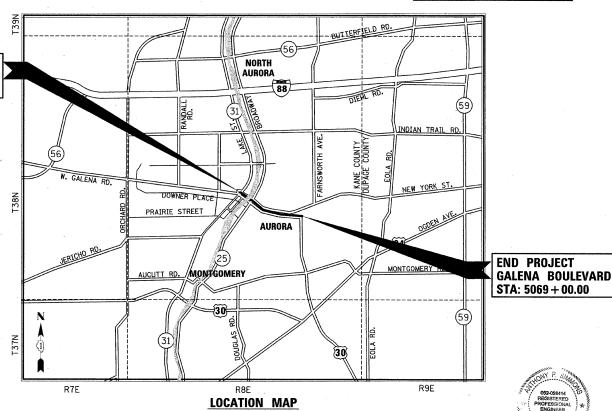
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PROPOSED PLANS FOR TRAFFIC SIGNAL INTERCONNECT AND MODERNIZATION

CONGESTION MITIGATION AIR QUALITY ROUTE: GALENA BOULEVARD FROM LOCUST STREET TO OHIO STREET SECTION 08-00270-00-TL **PROJECT NO. CMM-9003 (042)**

> **KANE COUNTY** JOB NO.: C-91-437-08

THIS IMPROVEMENT IS LOCATED IN THE CITY OF AURORA



SCALE: N.T.S

EXISTING ADT (2007) = 12.300POSTED/DESIGN SPEED = 30 M.P.H.

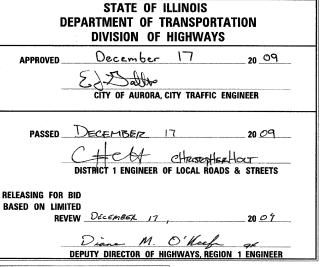
PROJECT GROSS LENGTH = 8,700.00 FEET = 1.65 MILES PROJECT NET LENGTH = 8,700.00 FEET = 1.65 MILES DESIGN DESIGNATION = MINOR ARTERIAL

EXPIRES: 11/30/2011 SEC GROUP. INC.

TOTAL SHEE SHEETS NO. SECTION COUNTY 08-00270-00-TL KANE 44 1

CONTRACT NO. 63300





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



SEC Group, Inc. Engineering Surveying

McHenry • Yorkville • New Lenox • Chicago

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	LAKE STREET	RIVER STREET	STOLP AVENUE	BROADWAY AVENUE	Y031-F LINCOLN AVENUE	ROOT STREET	UNION STREET	OHIO STREET	INTERCONNECT
* 42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	1047	486							561	
* 42400800	DETECTABLE WARNINGS	SQ FT	97	55							42	
* 44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	145	58							87	
* 44000600	SIDEWALK REMOVAL	SQ FT	855	439							416	
133	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	145	58							87	
	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4								1	+
	MOBILIZATION	L SUM										
			1									
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1									
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1								·	
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	11					,				
	SIGN PANEL - TYPE 1	SQ FT	153.25	20.00		26.25		20.00	42.50		44.50	
	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	200							200		
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	460	460								
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	34	34								
78300100 I	PAVEMENT MARKING REMOVAL	SQFT	366	366								
80400100	ELECTRICAL SERVICE INSTALLATION	EACH	4			1		1	1		1	
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	4146	716				26	207	57	47	3093
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	382	57		81		84	43		117	
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	335	39		51		55	91		99	
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1373	138		41		24	61	43	23	1043
81018600	CONDUIT PUSHED, 2 1/2" DIA.,GALVANIZED STEEL	FOOT	125	55			5-7-7	39	24		7	
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	790	217		123		165	127		158	
81400100	HANDHOLE	EACH	12	3					1			8
	DOUBLE HANDHOLE	EACH	4	1				1	1		1	
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2112.5			468.5		582	250		812	
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	5047	848		132		159	428	134	253	3093
				040		132		. 109		134		3093
	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	5						1		4	
l	LIGHTING CONTROLLER TYPE, POLE MOUNTED, ZHOVOLT, LO AMP	EACH	2					1			1	
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	1	1	1	1		1	1		
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	3	1				1			1	
85700500	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH.	3			1			1	1		
85900100	TRANSCEIVER	EACH	8									8
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3468	1026		425		496	528	459	534	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	10003.5	2023.5	223	1518.5		2103	1751	974	1410.5	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6689.5	801.5		1203.5	····	.1413.5	1502.5		1768.5	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2253.5	803.5				386.5			1063.5	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3739.5	1809.5					756	1174		
87301615	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 6 PAIR	FOOT	1677			349		552			776	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	575.5	221.5		48		94	41.5	84.5	86	
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2	1				1				
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	10	1		3		2	3		1	
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	2	2								
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4					1			3	
	1		1 1				***************************************	· · · · · · · · · · · · · · · · · · ·	1		ļ	
	TRAFFIC SIGNAL POST GALVANIZED STEEL 18 FT	EVCH		1	+	 				<u> </u>		
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH			-						1	i i
87502520 87702840	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	. 1								1	
87502520 87702840 87702850	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH EACH	1								1	
87502520 87702840 87702850 87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH EACH	1 1									
87502520 87702840 87702850 87702890 87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH EACH EACH	1 1 1						1		1	
87502520 87702840 87702850 87702890 87702900 87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH EACH	1 1						1		1	

JSER NAME = _USER_ DESIGNED REVISED DRAWN BAH
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DATE ~ REVISED ...\trans\fin_dwg\690_5_sum01.dgn PLOT SCALE = \$SCALE\$ REVISED PLOT DATE = 12/17/2009 REVISED

FILE NAME =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

 COUNTY
 TOTAL SHEETS NO.

 KANE
 44
 2

 CONTRACT NO.
 63300
 SECTION **SUMMARY OF QUANTITIES** 08-00270-00-TL SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	LAKE STREET	RIVER STREET	STOLP AVENUE	BROADWAY AVENUE	Y031-F LINCOLN AVENUE	ROOT STREET	UNION STREET	OHIO STREET	INTERCONNECT
87704050	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL)	EACH	1					. 1				
87704060	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL)	EACH	1			1		-				
87704070	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	3	1		1		1				
87704090	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	2	1				1				
87704100	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT. (SPECIAL)	EACH	1	1								
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	76	16		12		16	16		16	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	12	4				4			4	
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	157.5	37		30		33.5	10		47	
87900200	DRILL EXISTING HANDHOLE	EACH	77	13		15		10	16	10	11	2
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	18	3		4		3	2		6	-
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8	1		3		3	1			
. 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	4	4								
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4	7							3	
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7						3			
88030240	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	4			2		1	3		1	
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	24	4		4		1	4	4	3 4	
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	26	7						4		
88500100	INDUCTIVE LOOP DETECTOR					4		4	2		9	
88600100	DETECTOR LOOP, TYPE I	EACH	14	5					4	5		
		FOOT	808.4	195.6					247	365.8		
88700200	LIGHT DETECTOR	EACH	10	2		2		2	2		2	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	5	1		1		1	1		1	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	24	4		4		4	4	4	4	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	22554.5	3373.5		2474		4740	3205	2290	6472	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1		1		1	1	1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	5	1				2	1		1	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	31	8		5		7	3		8	
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5142									5142
X0324007	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1									1
X0324256	FIBER OPTIC CABLE SPLICE	EACH	1									1 1
X0325035	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FT	EACH	5			-			1		4	
X0325134	WIRELESS INTERCONNECT (COMPLETE)	EACH	1									1
842 00500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	5		2	2		1				
X0325810	WIRELESS ETHERNET RADIO	EACH	5			1		1				3
X8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1			1						
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	4	1				1	1		1	
X8510300	PAINT TRAFFIC SIGNAL POST	EACH	19	4		3		4	4		4	
X8620020	UNINTERRUPTABLE POWER SUPPLY	EACH	5	1		1 1		1	1		1	
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	5142									5142
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	2898.5	653		348.5		489.5	423	390	594.5	
x0217166	LIGHT POLE, SPECIAL (DECORATIVE ORNAMENTAL)	EACH	4		2	1		1				
XX003584	VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	644.5		228	64		127.5	225			
XX003552	VIDEO DETECTION SYSTEM	EACH	3			1		1			1	
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED SHIELDED	FOOT	2352.5	392.5	218	283.5		518	639		301.5	
XX005937	L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	8	3		2		3				
XX006923	GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	22	4		4		. 3	4		7	
XX006927	RELOCATE INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	1			1						
XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	4		1	1		1	1			
XX007487	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT (SPECIAL)	EACH	6			3		3				
XX007952	TERMINAL SERVER	EACH	1									1
XX007 9 92	ETHERNET SWITCH	EACH	1					7				1
	CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	LSUM	1									1
NAME = USER	DESIGNED - DEVICED -									•		LE A

PROFILE SURVEYED PLOTTED NOTE BOOK RAA, NOTED NO. STRUCTURE NOTATIVES CHECKED NO.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

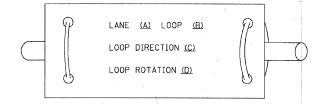
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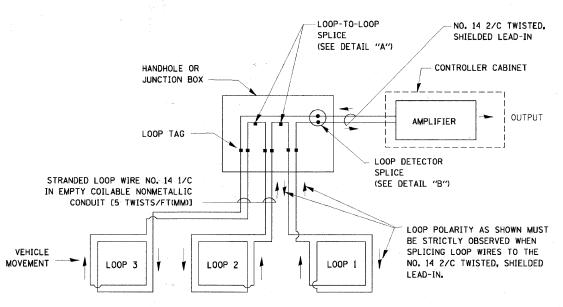
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

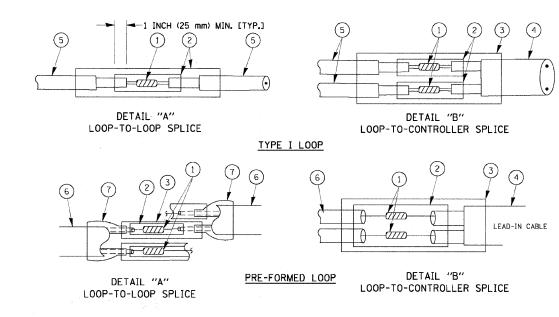


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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



LOOP DETECTOR SPLICE

- $\ensuremath{\bigcirc{1}}$ 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.
- (6) PRE-FORMED LOOP
- TXL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

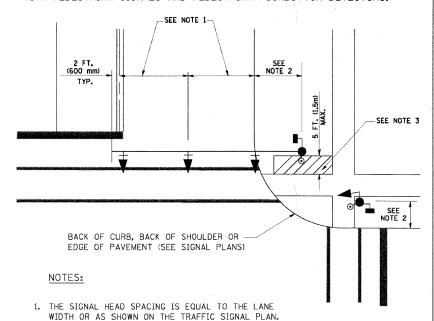
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\fin_dwg\690_5_sigdet0l.dgn		.DRAWN BAH	REVISED -	STATE OF ILLINOIS	1	STANDARD TRAFFIC SIGNALS	08-00270-00-TL	KANF 44 4
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION		DESIGN DETAILS	08 00210 00 12	CONTRACT NO. 63300
	PLOT DATE = 12/17/2009	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FE	ED. AID PROJECT

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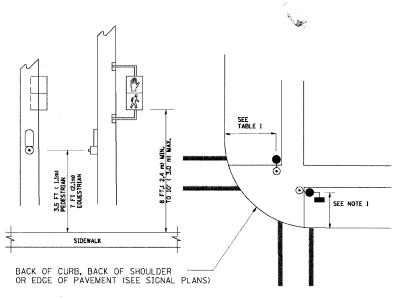
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



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

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS - 5.0 FT. (0.45 m) MAX. | 1.5 FT. | (0.45 m) MAX.

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

NOTES:

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

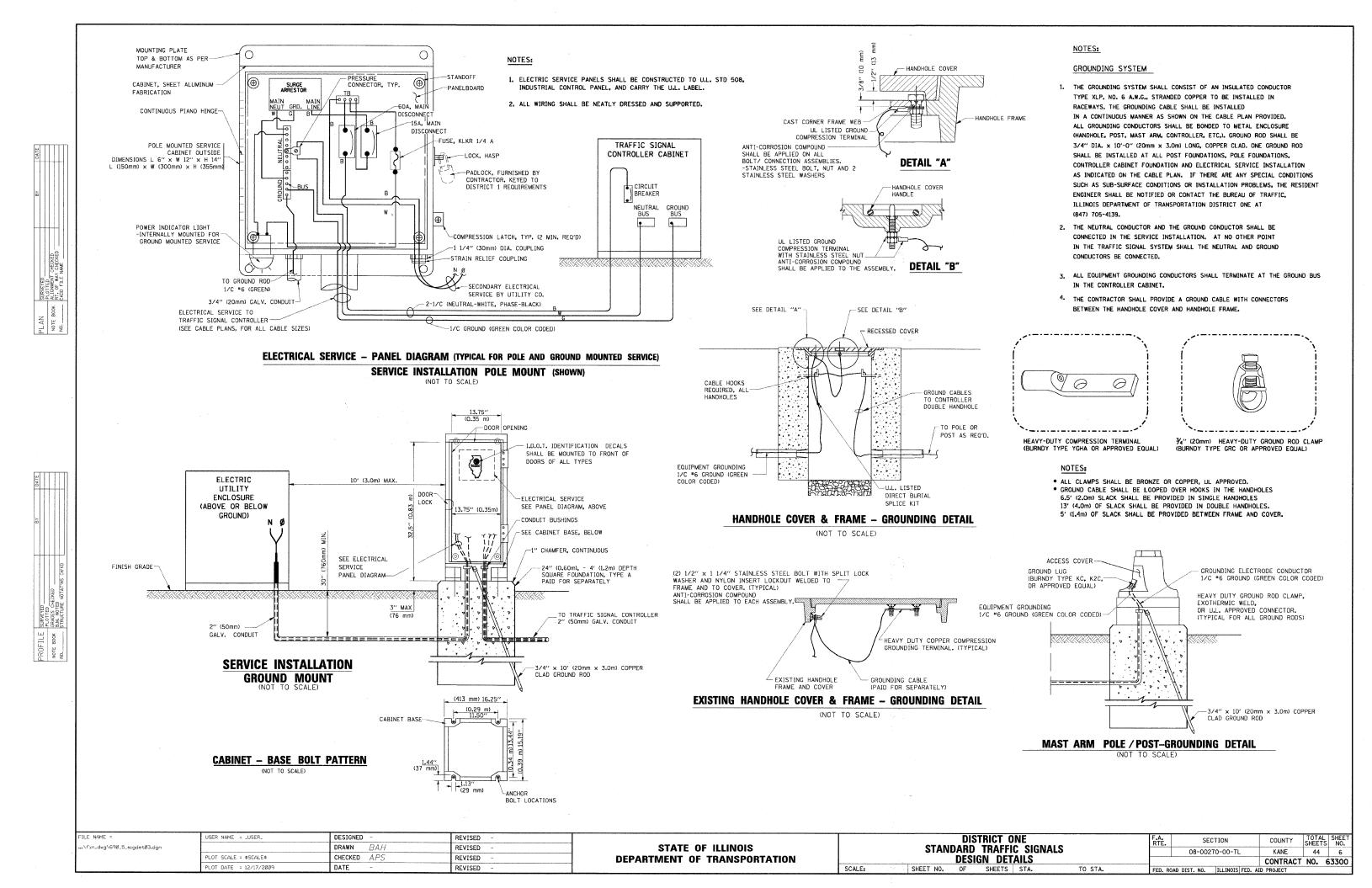
TRAFFIC SIGNAL EQUIPMENT OFFSET

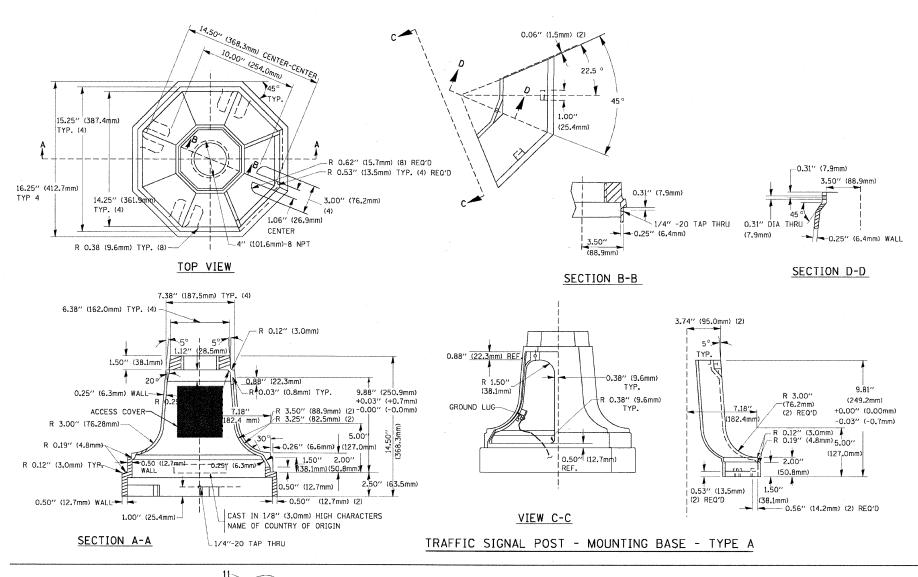
	THAT TO STORAGE EXCELLENT OF SET							
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)						
TRAFFIC SIGNAL MAST ARM POLE	6 FT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

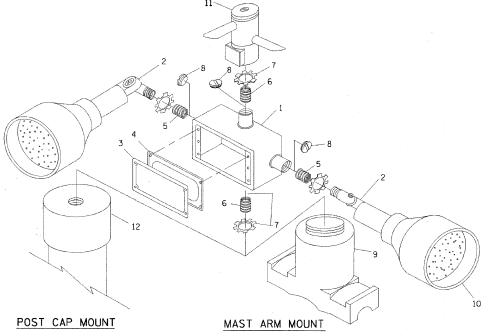
NOTES:

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

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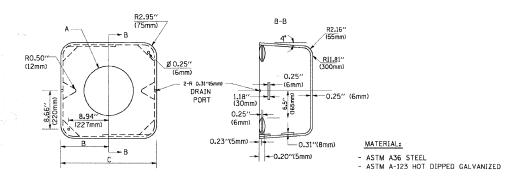


EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

NOTES:

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

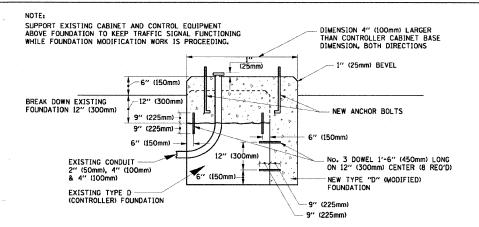


A	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

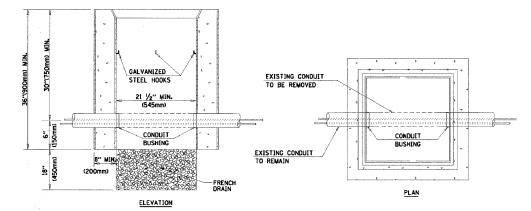
SHROUD

NOTES

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



MODIFY EXISTING TYPE "D" FOUNDATION



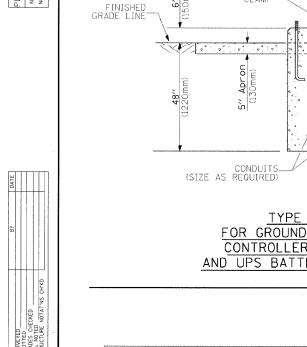
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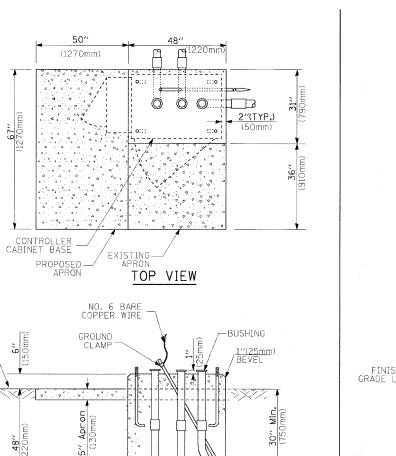
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

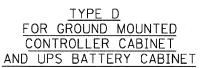
HANDHOLE TO INTERCEPT EXISTING CONDUIT

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- 1	-	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	DESIGN DETAILS	00 002/0 00 12	CONTRACT NO. 63300
l		PLOT DATE = 12/17/2009	DATE ~	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED.	AID PROJECT

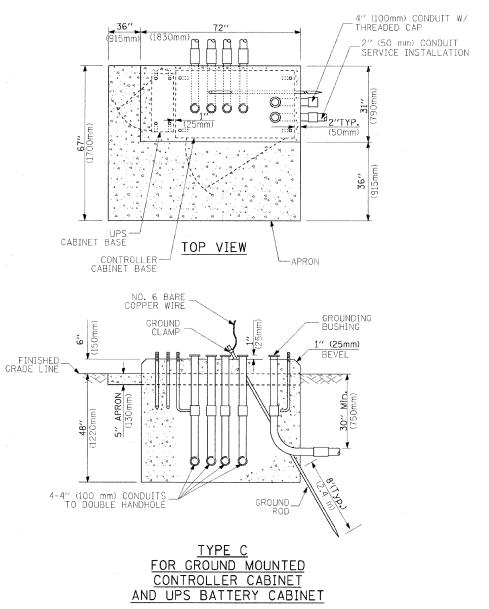


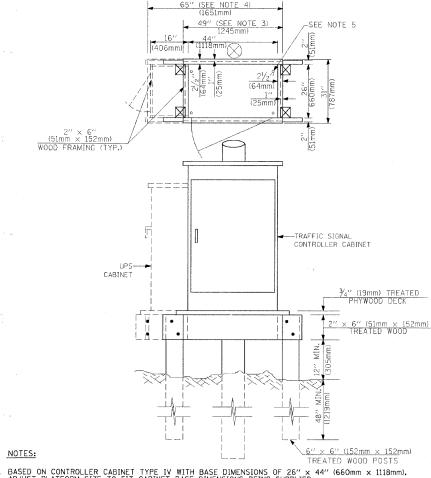






GROUND ROD





- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm).

 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS. WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

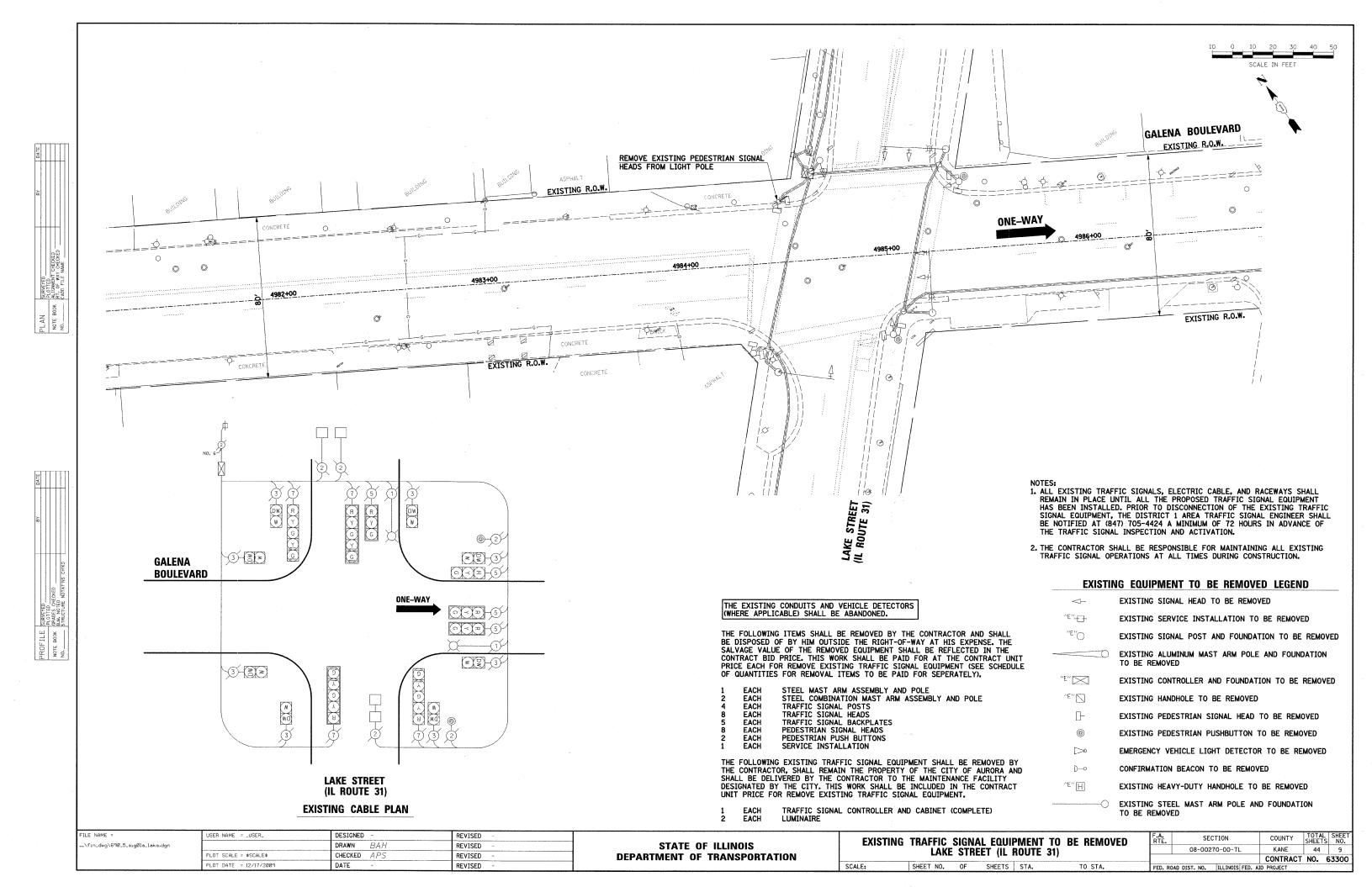
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25′-0′′ (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

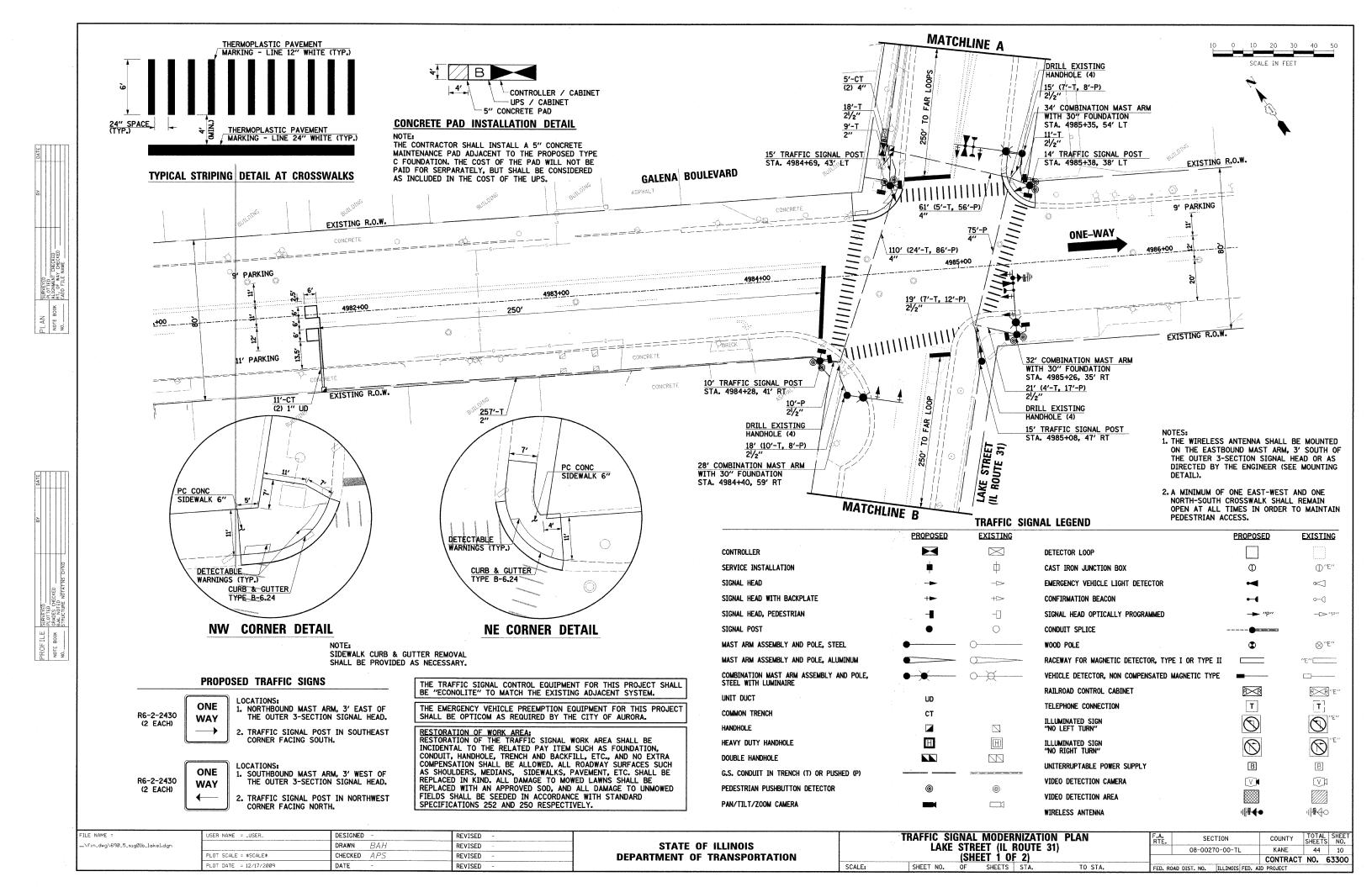
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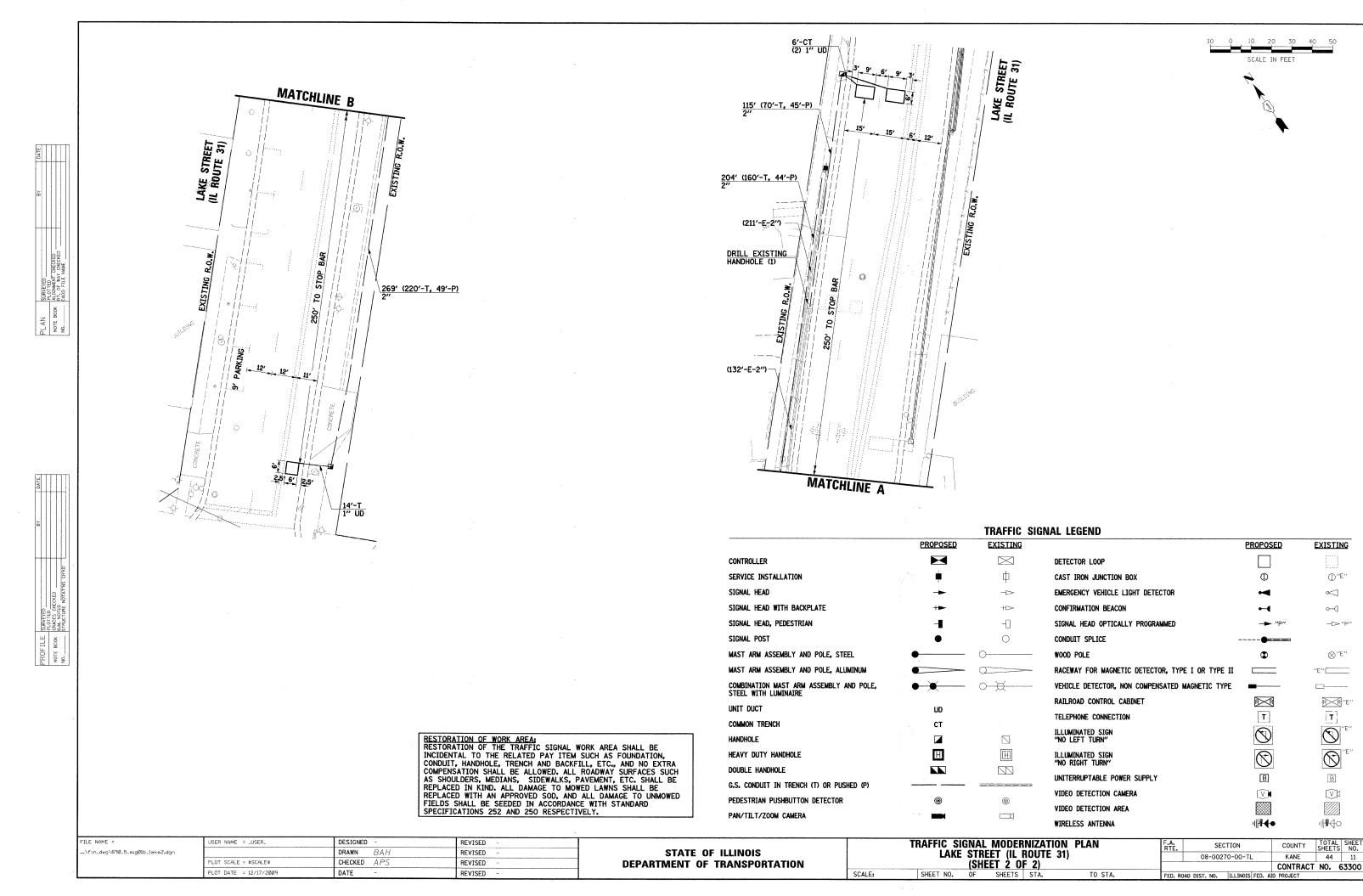
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa).
 This strength shall be verified by boring data prior to construction or with testing by the Engineer
 during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- 4. For most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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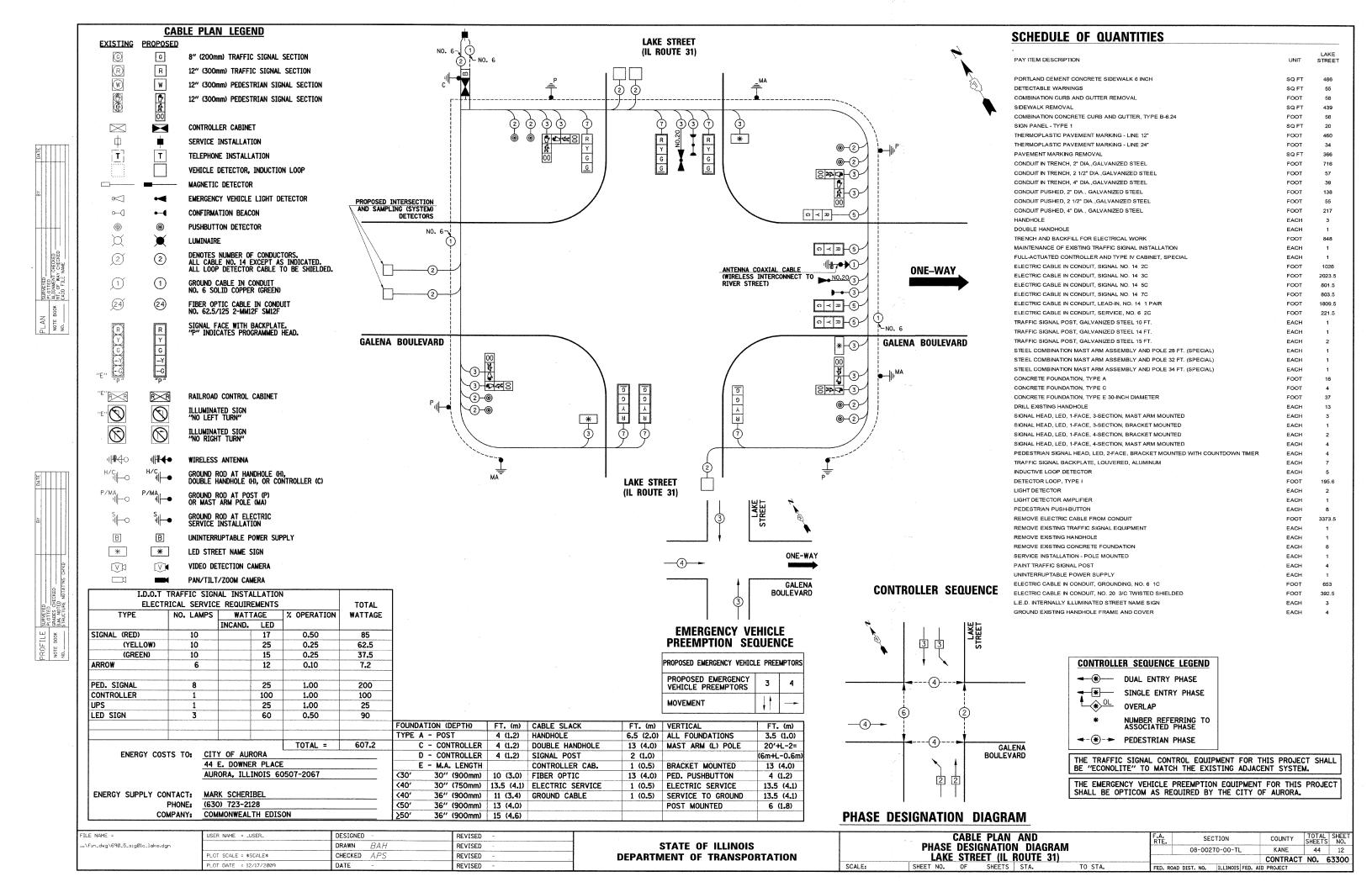
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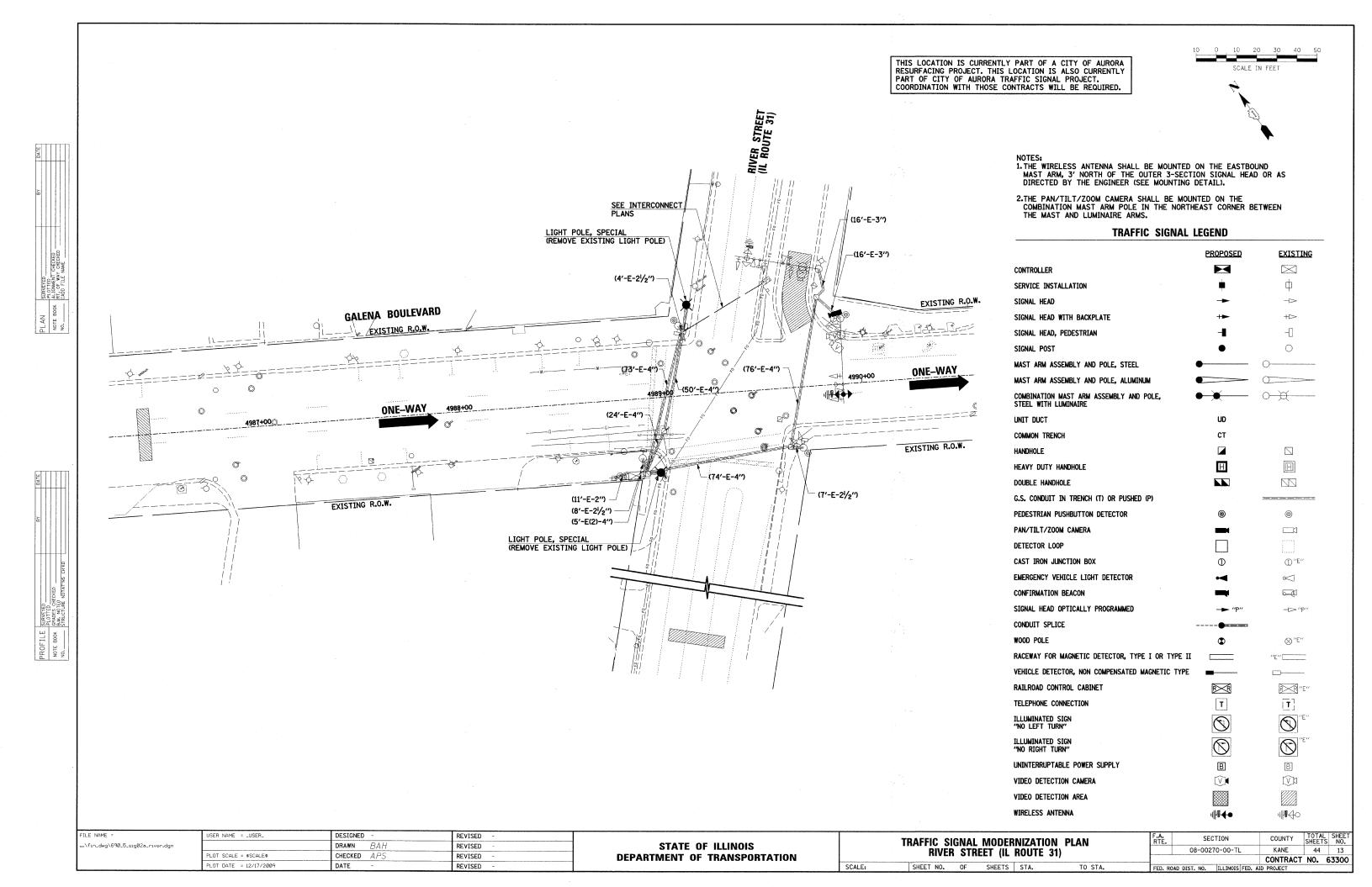
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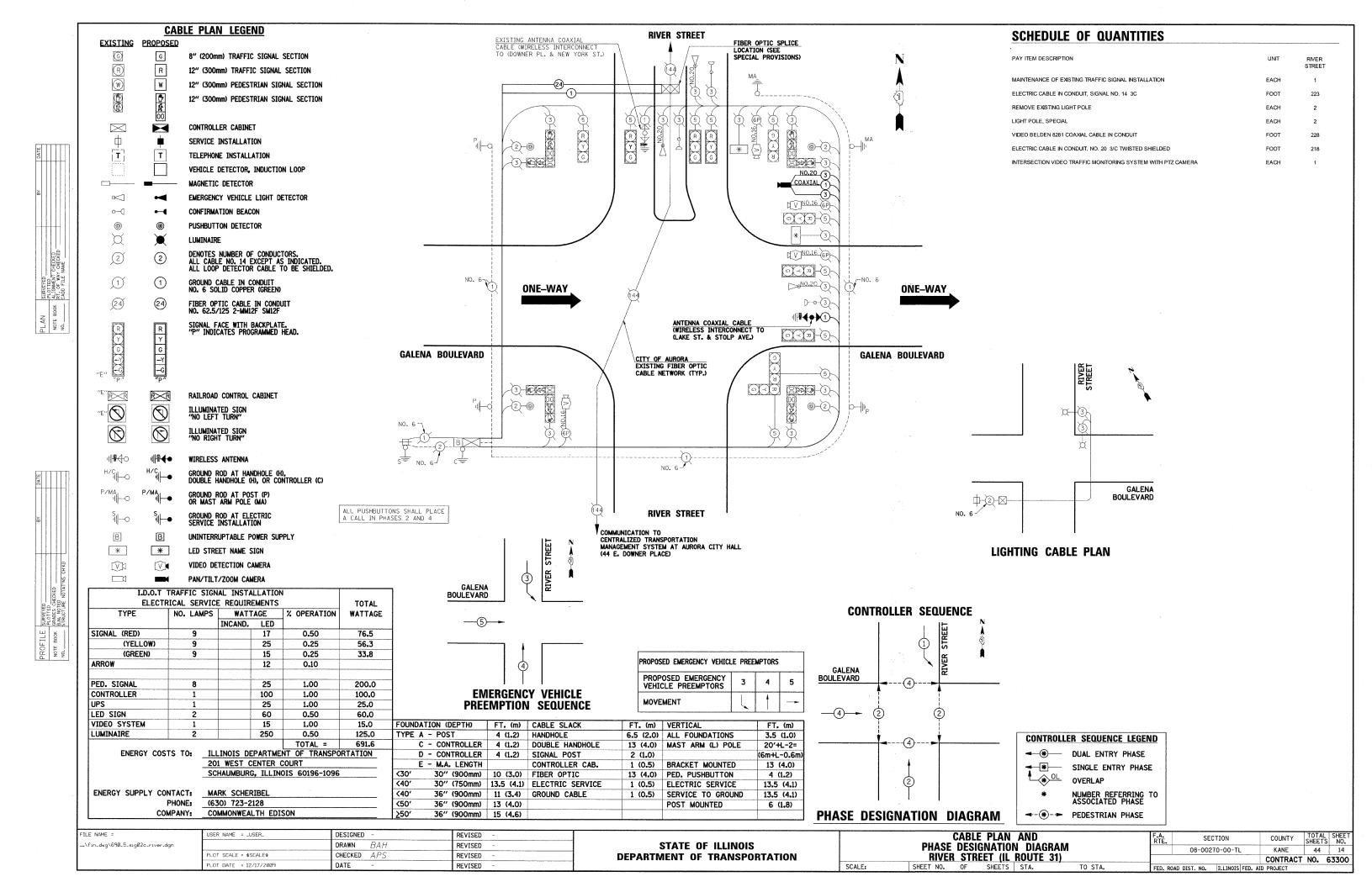
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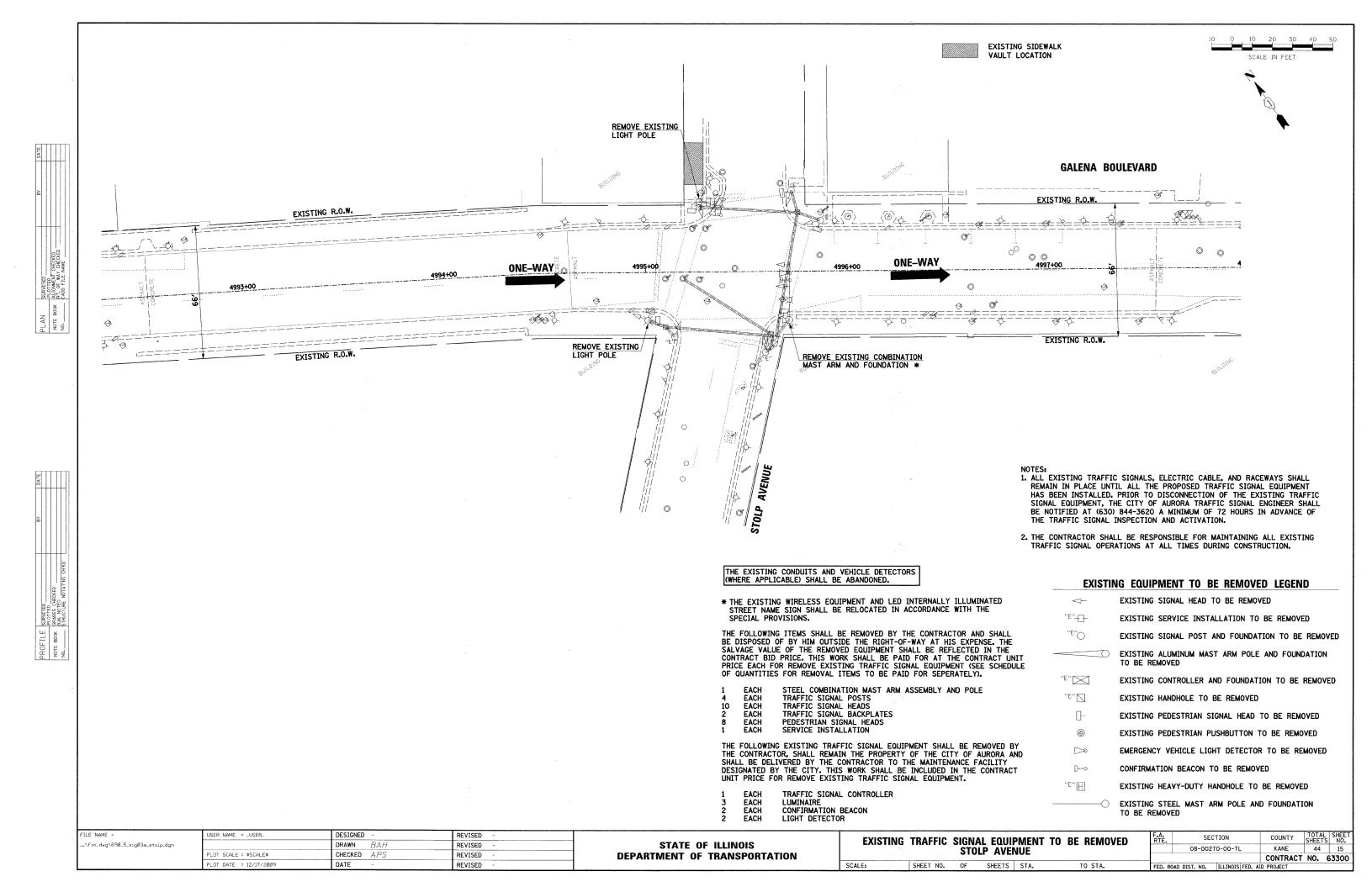
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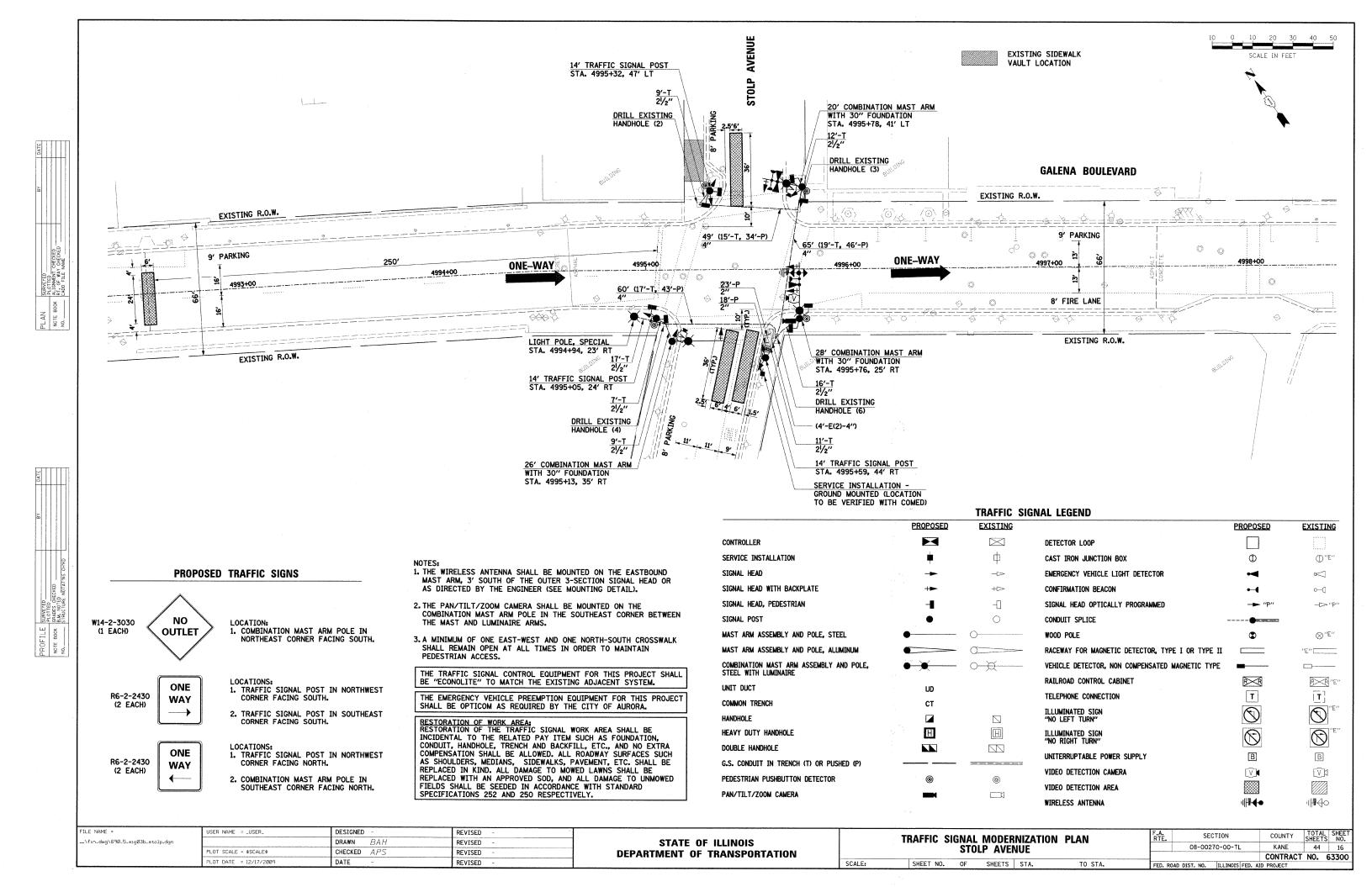
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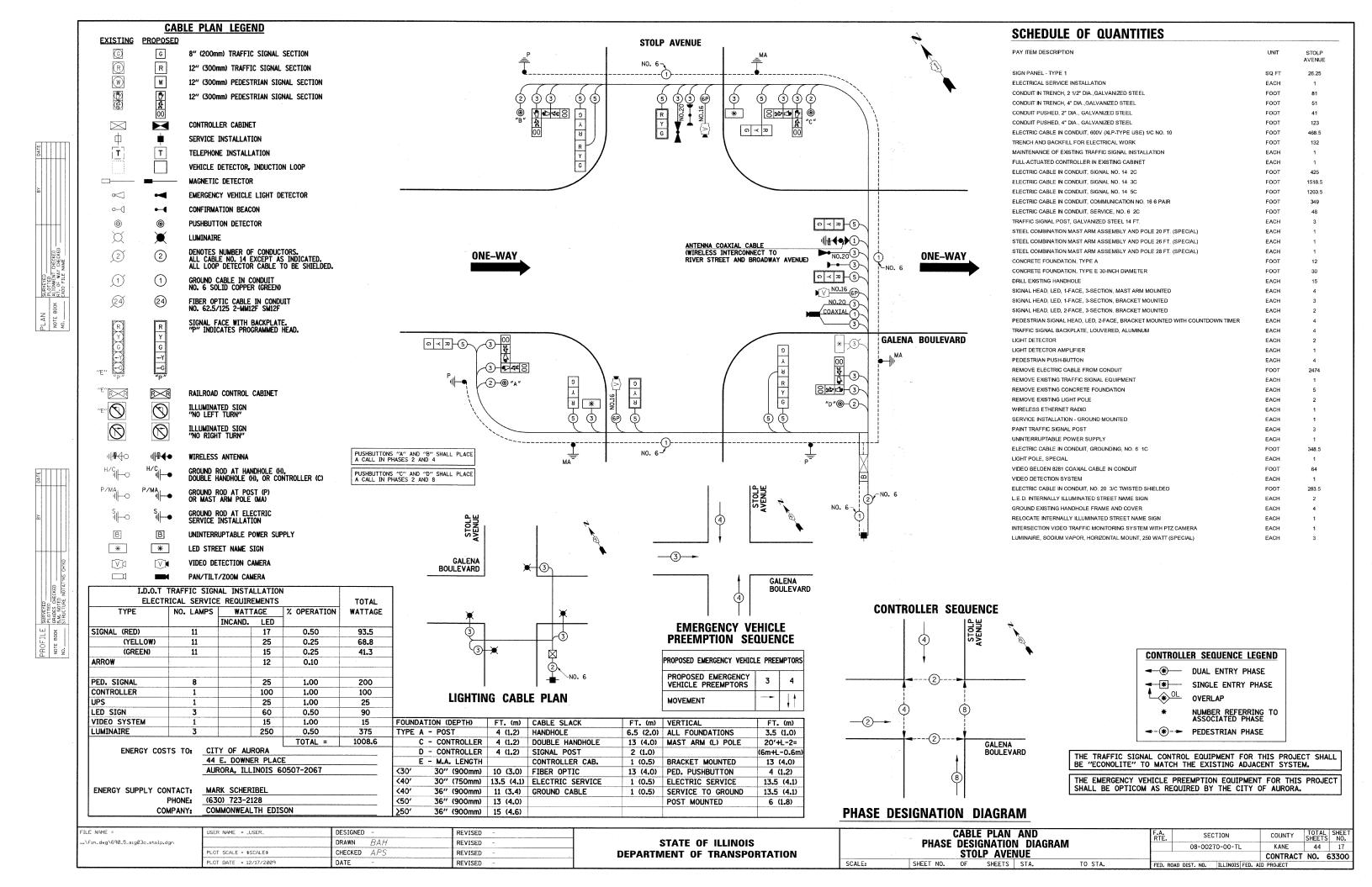


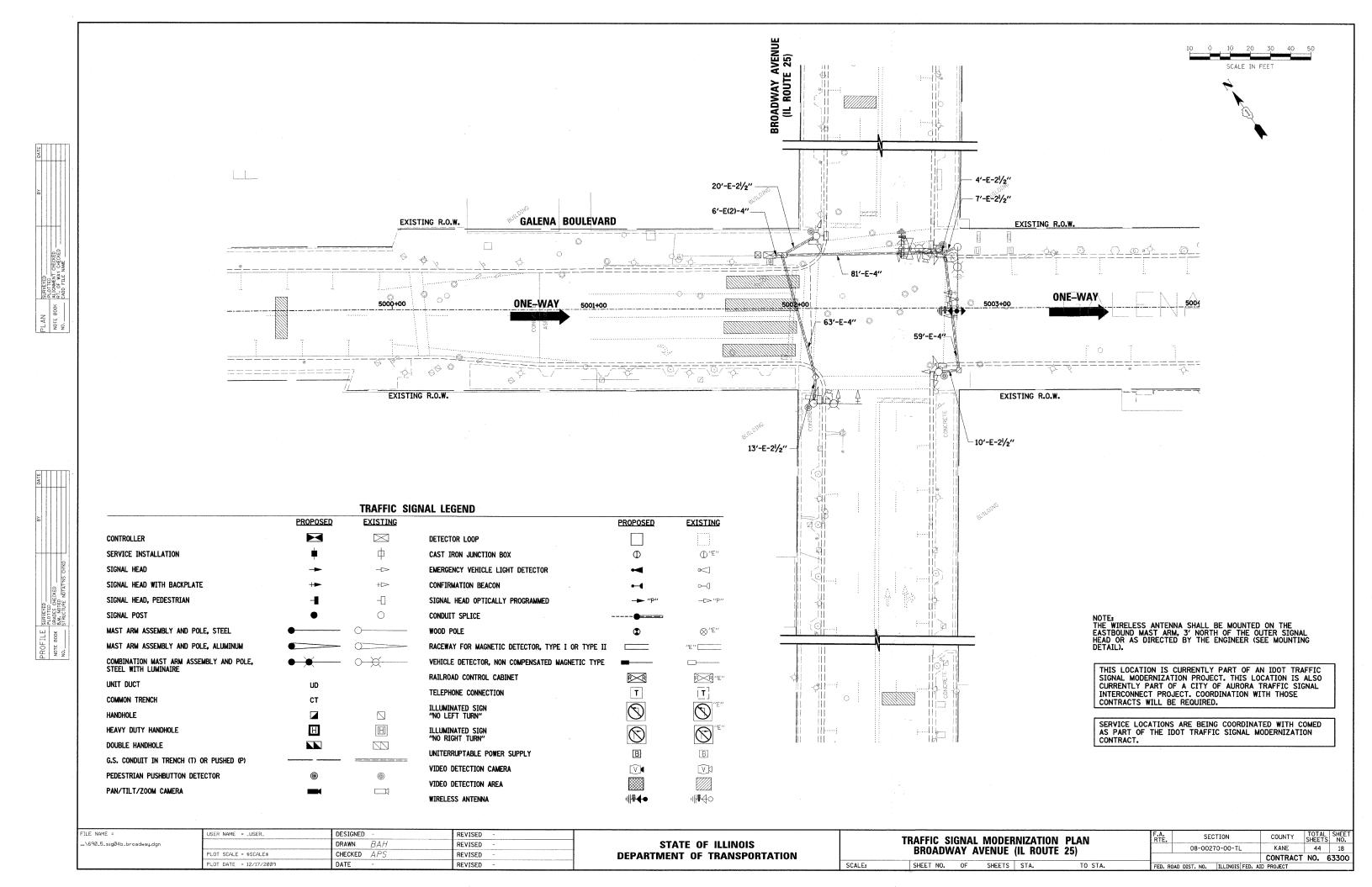


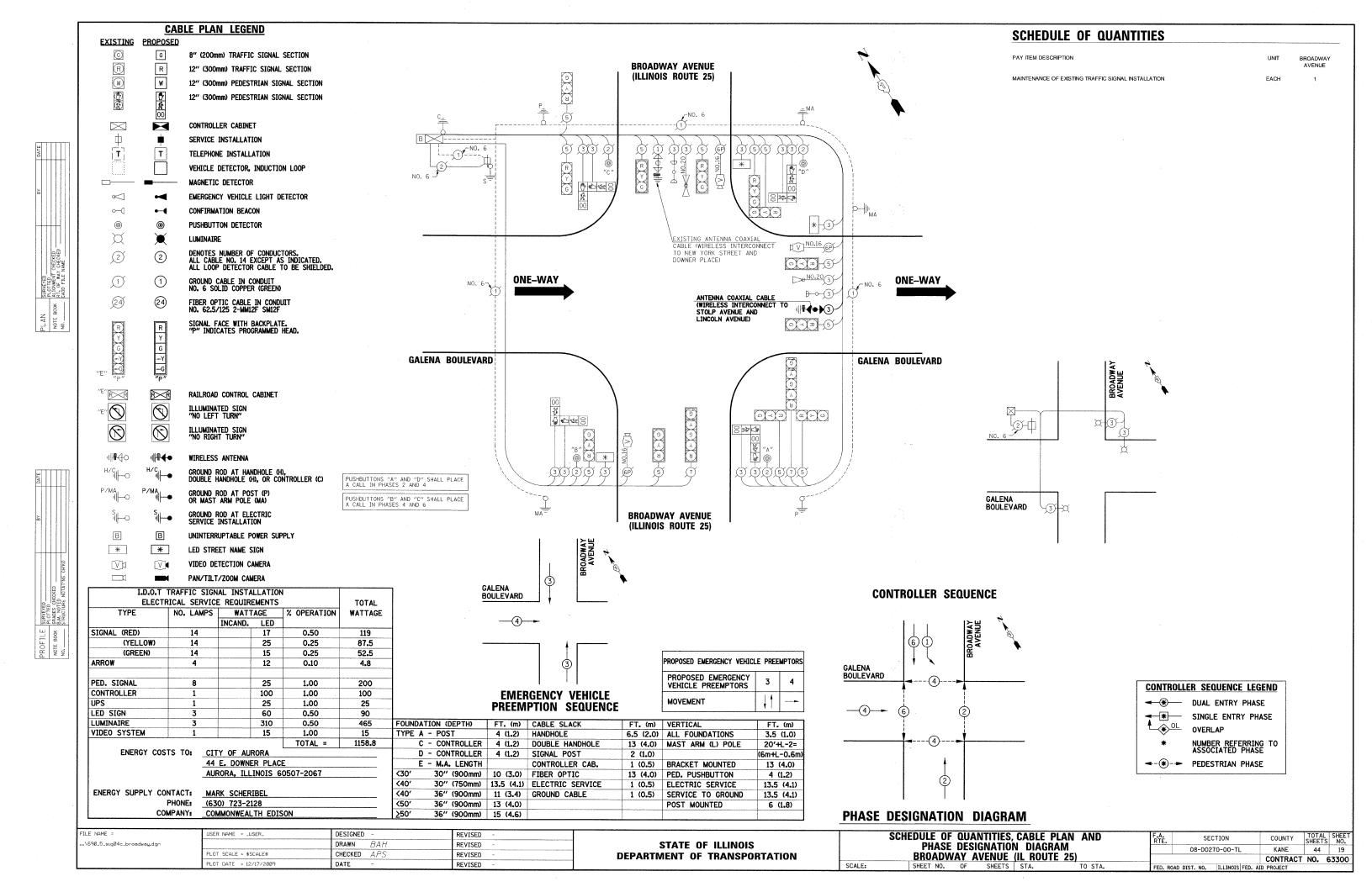


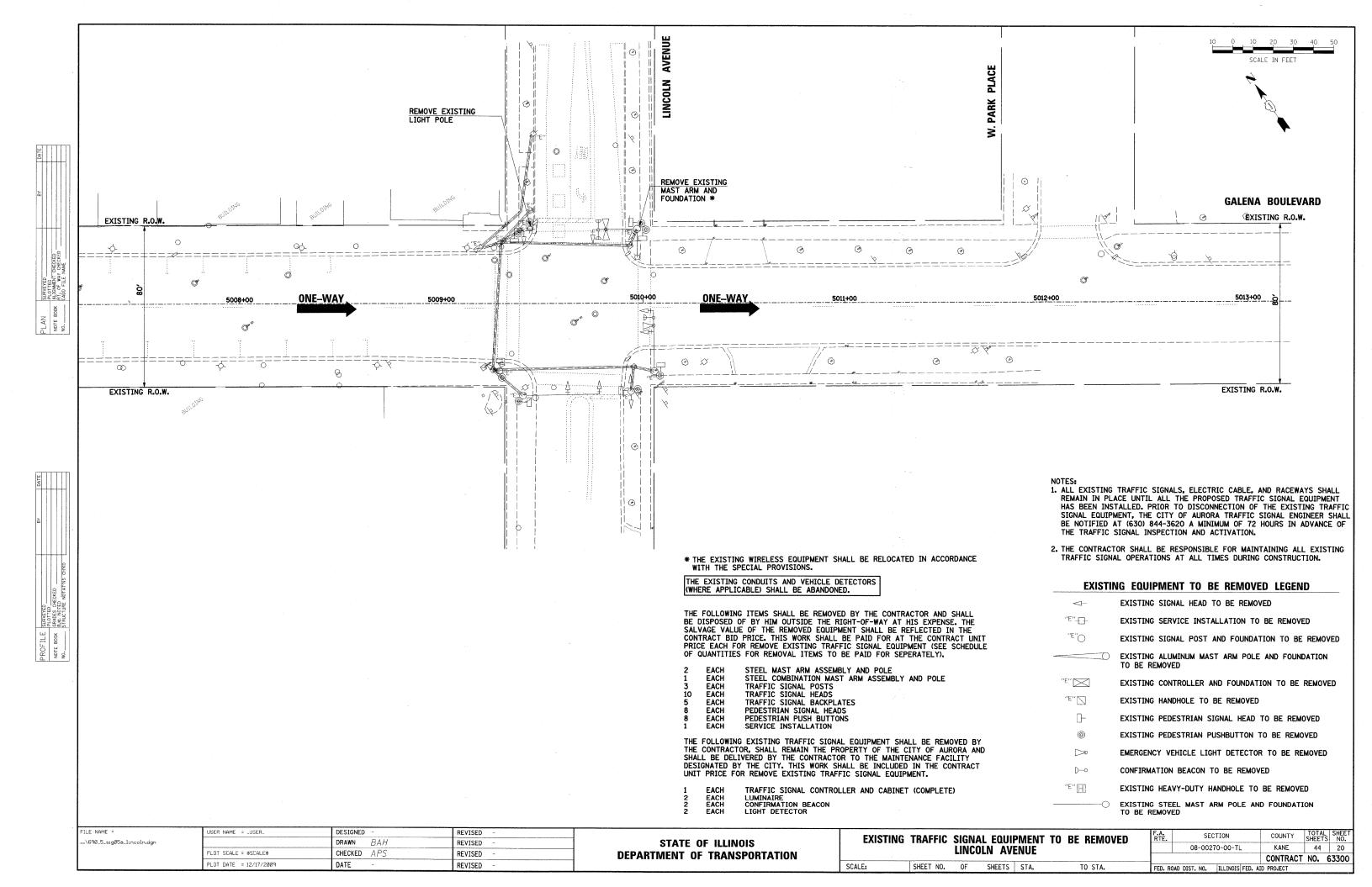


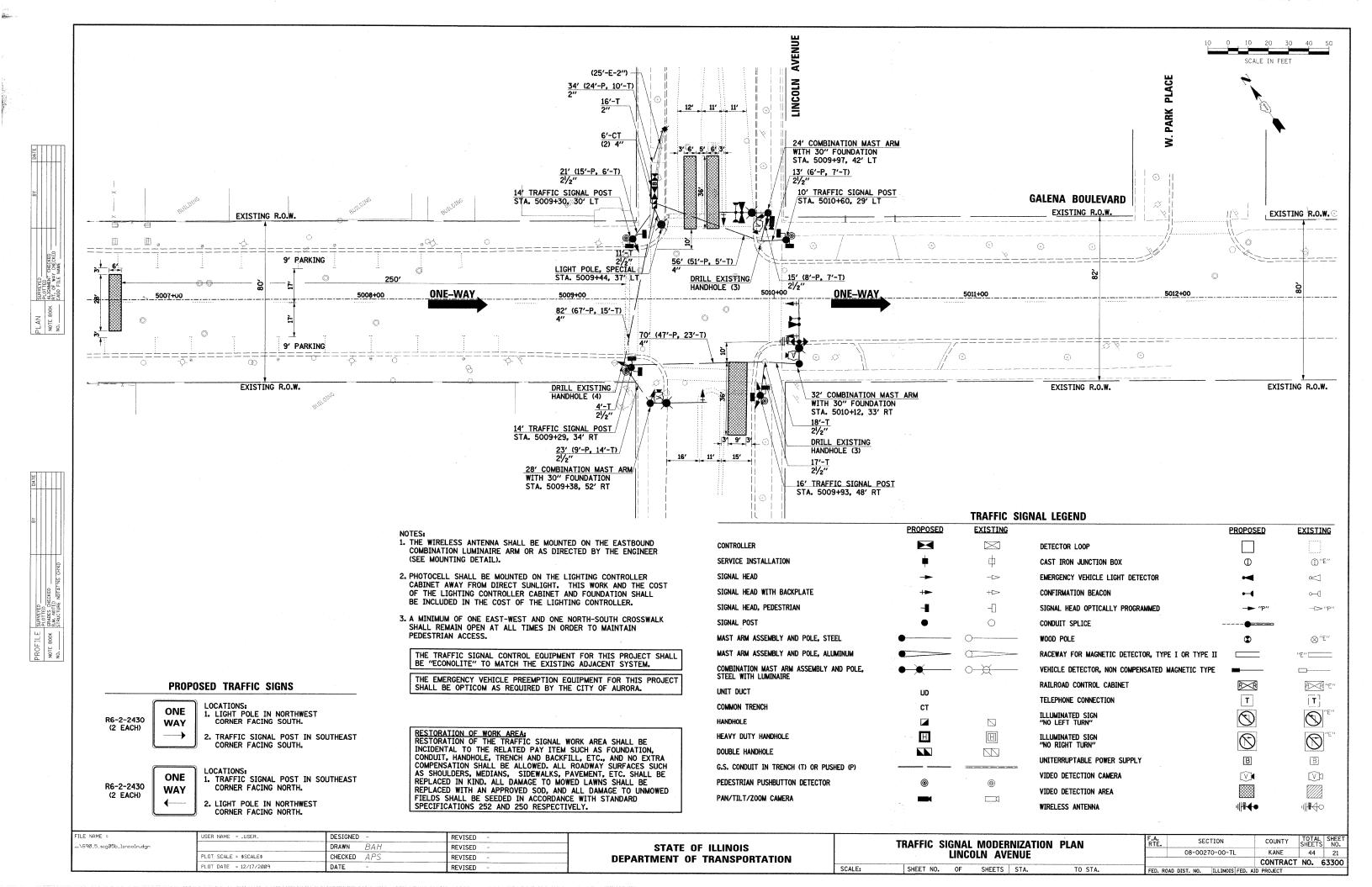


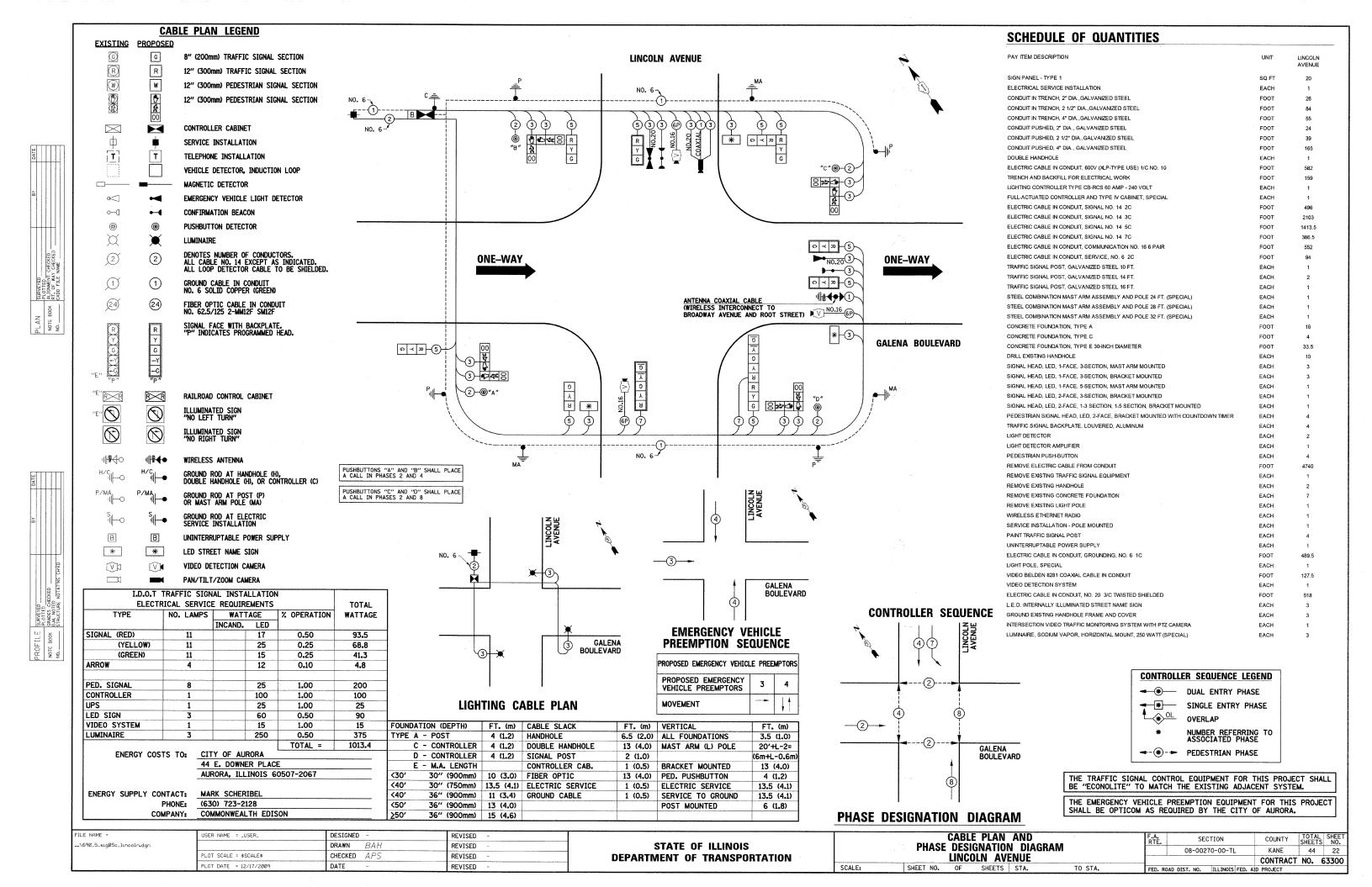


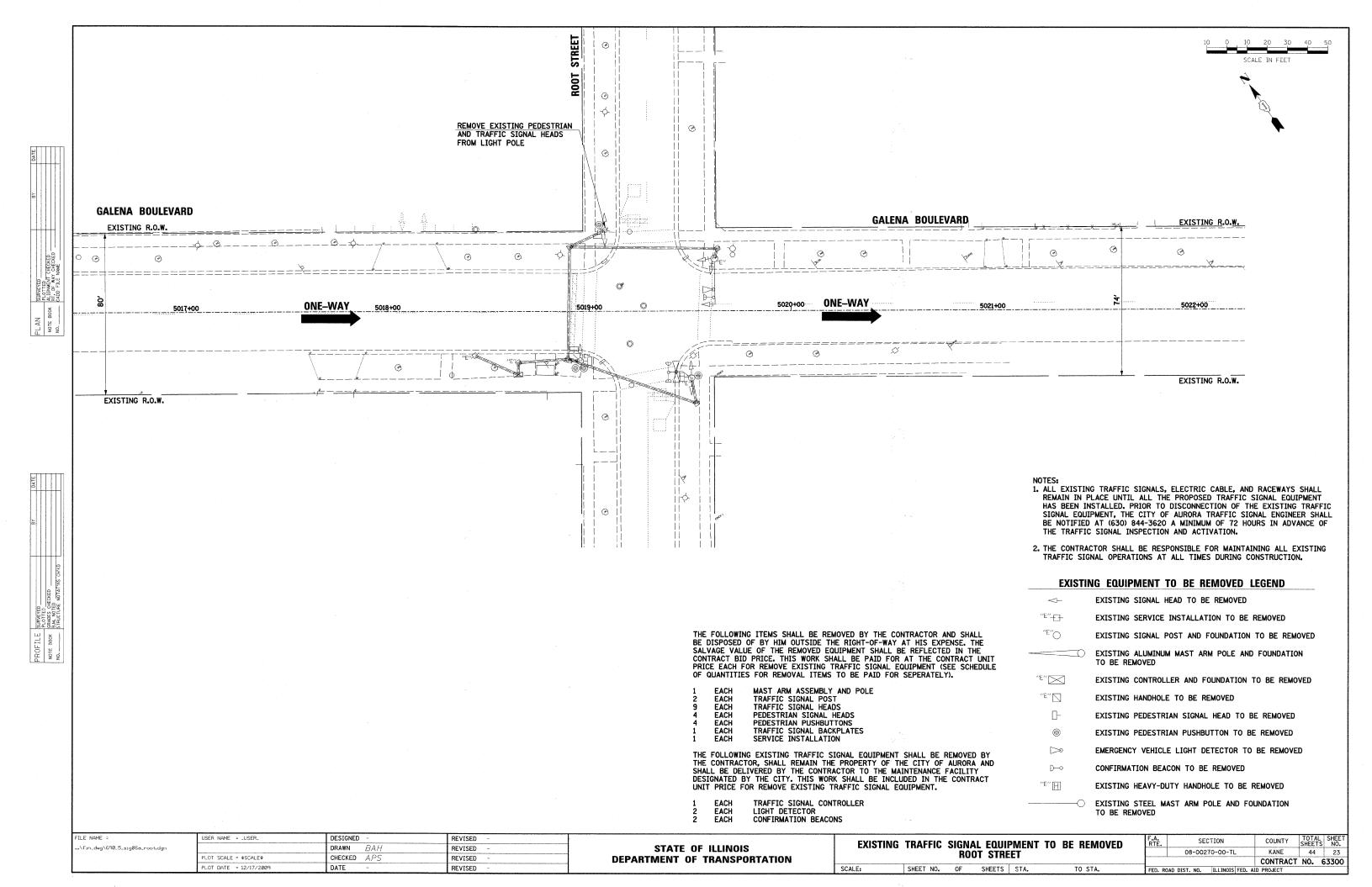


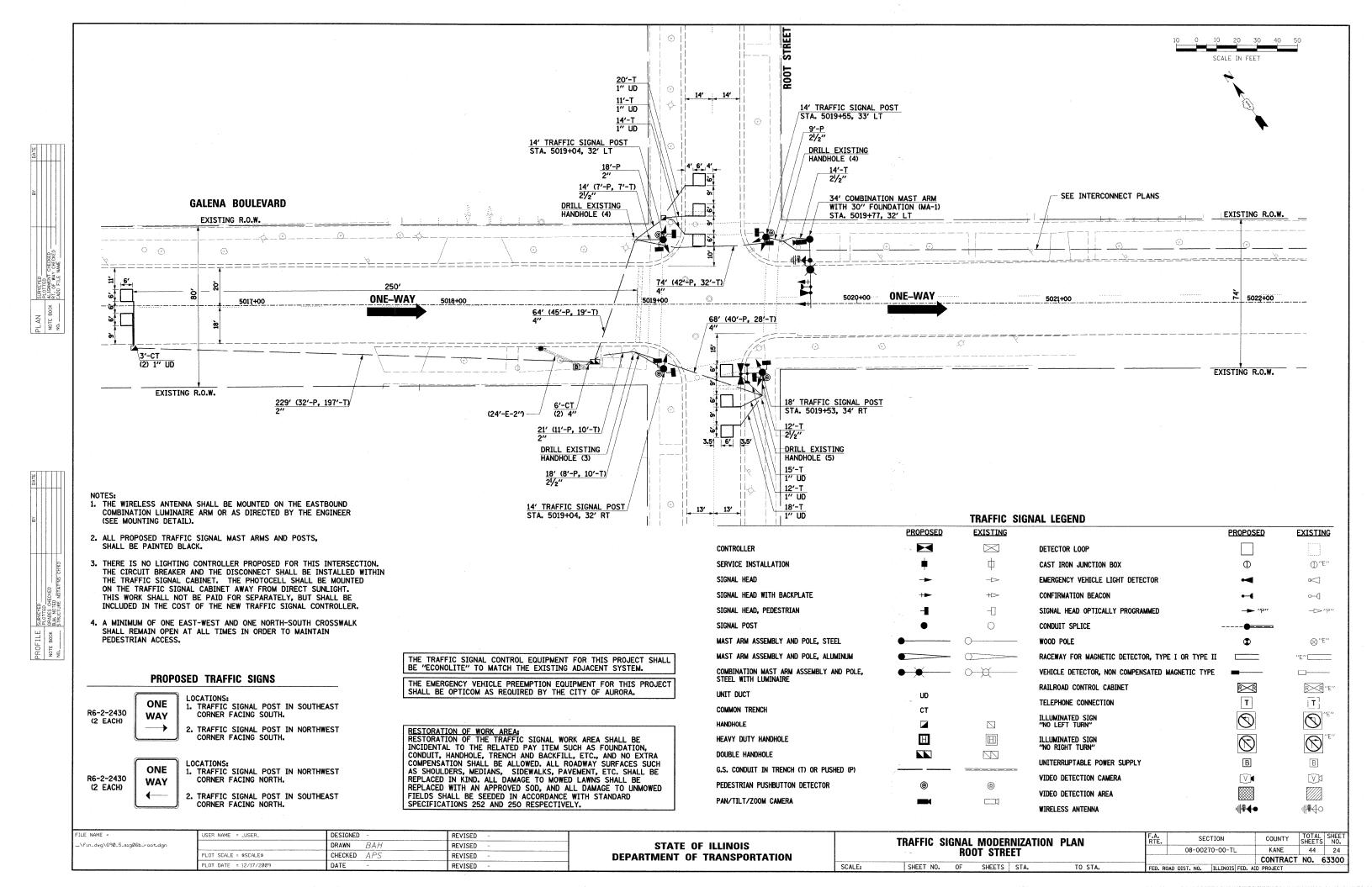


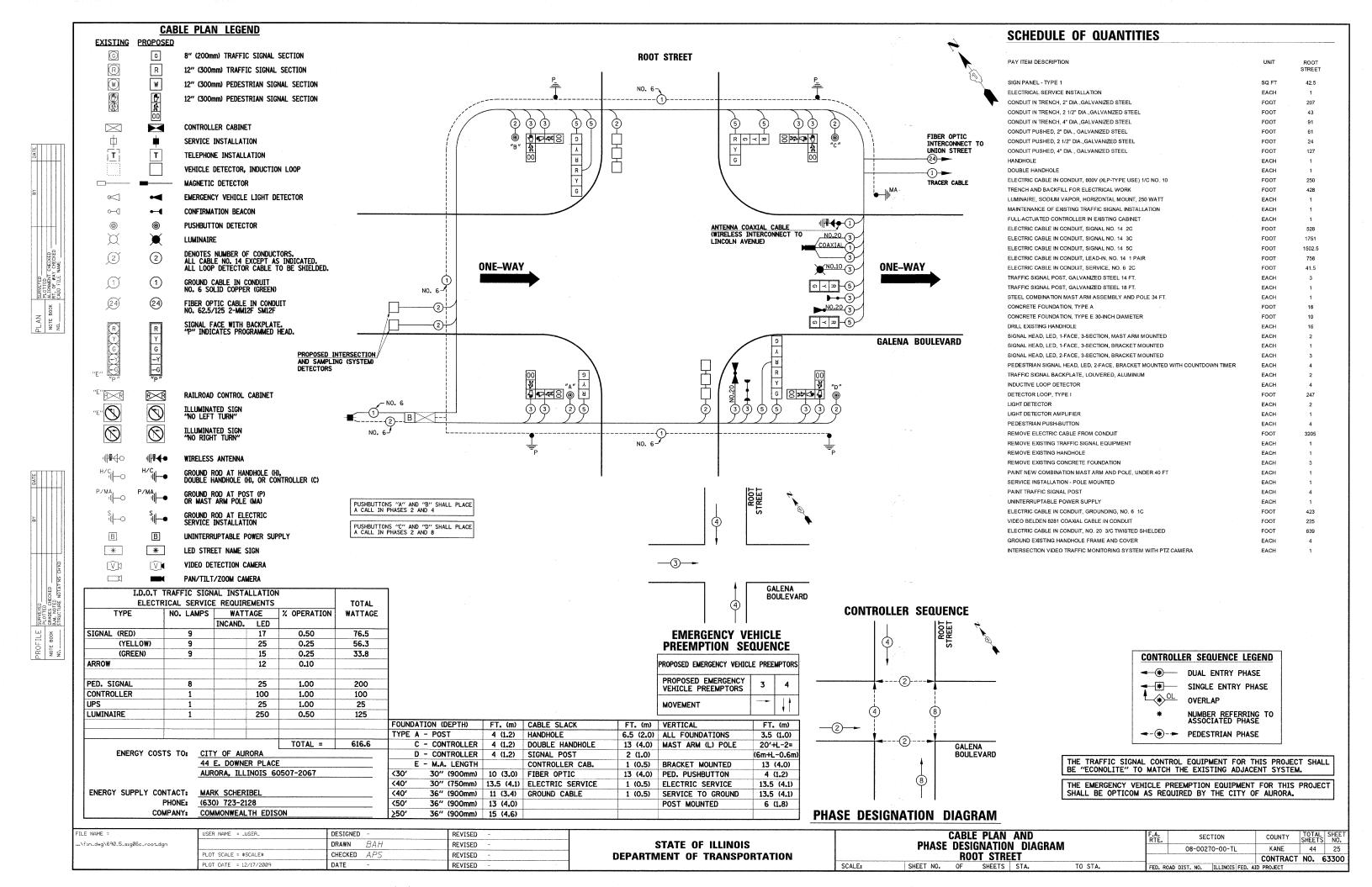


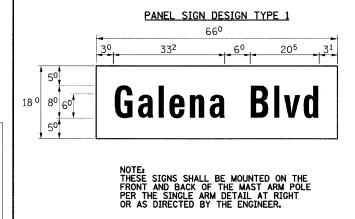












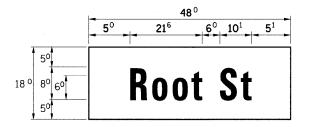
SUPPORTING CHANNELS (A-C)/2 MA-1 8.25 sq. Ft each 2 Required Design Series D

(A-C)/2

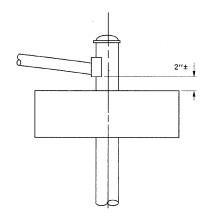
SECURE SIGN TO MAST ARM-

ВС 18" 2" 12" 30" 2" 22"

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5



<u>MA−1</u> 6.00 Sq. Ft each 1 Required Design Series D



SINGLE ARM

DUAL ARM

GENERAL NOTES

NOTE: THIS SIGN SHALL BE MOUNTED ON THE MAST ARM IN ACCORDANCE WITH STANDARD 720016 OR AS DIRECTED BY THE ENGINEER.

- 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. CHICAGO HEIGHTS, IL.
- . TUCKER COMPANY, INC.
- WESTERN TRAFFIC CONTROL, INC. CICERO, IL.
- WALWATOSA, WI.

PARTS LISTING:

SIGN CHANNEL

PART 3HPN053 (MED. CHANNEL) SIGN SCREWS 1/4" X 14 X 1" H.W.H. #3

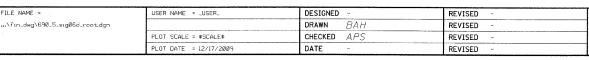
BRACKETS

SELF TAPPING WITH NEOPREAM 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.



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

								S	ECC	ND	LE	TTE	R								
		()		1	2	2	-	3	4	4	į	 5	(ŝ	-	7	8	3	9	9
F	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	Γ
I	0 9	16	17	16	17	14	1 ⁵	12	14	14	1 ⁵	14	15	16	17	12	14	16	17	16	[
R S	1	20	21	20	2 ¹	20	2 ¹	16	17	14	15	20	2 ¹	20	21	14	15	20	21	20	,
T	2 3 4	14	15	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	1
N	5	14	1 ⁵	14	15	14	15	11	12	1 ¹	1 ²	14	15	14	15	11	12	14	15	14	1
M	6	16	17	14	15	14	15	1 ²	15	12	14	14	15	14	1 ⁵	1 ¹	12	14	15	14	1
B E	7	1 ²	14	12	14	14	15	12	15	05	06	1 ²	14	14	1 ⁵	11	1 ²	14	15	12	1
R	8	16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	1

SCALE:

SHEET NO.

EXAMPLE, 2 DENOTES 3/8"

8 INCH UPPER CASE LETTERS

43

43

40

6 INCH UPPER CASE LETTERS

SERIES

36

32

32

32

30

30

32

35

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U

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53

60

70

53

66

53

1.1

V

w

X

У

Z

В

D

40

40

35

		SECOND LETTER															
		a c g (d e	bhikl mnpru		fw		j		s t		٧	У	,	<	;	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
	A W X	12	14	14	1 ⁵	1 ²	14	O _e	10	1 ¹	1.4	O _e	10	11	12	1 ²	14
	В	14	15	20	21	14	15	1 ¹	12	14	15	12	14	12	14	16	17
	CEG	14	15	20	2 ¹	1 ²	14	O _e	10	12	14	12	14	14	1 ⁵	14	15
F	DOQR	14	1 ⁵	20	2 ¹	14	15	O _e	10	12	1 4	12	1 4	14	15	14	15
I R	F	05	06	14	1 ⁵	O _e	10	05	O ₆	Oe	10	06	10	0e	10	11	12
S T	HIMN	20	2 ¹	2 ²	24	20	2 ¹	14	1 ⁵	16	17	16	17	20	2 ¹	20	21
	JU	20	2 ¹	2 ⁰	2 ¹	16	17	14	15	16	17	16	17	16	17	20	2 ¹
E	ΚL	1 ¹	12	16	1 7	11	12	05	O _e	11	1 ²	11	1 ²	11	12	12	14
T	Р	12	14	14	1 ⁵	12	14	05	O _e	11	12	11	12	12	14	12	14
Ė	S	12	14	16	17	12	14	06	1º	12	1 4	12	14	1 ²	14	12	14
R	Т	11	12	16	17	O _e	10	O _e	10	11	1 ²	11	12	11	12	12	14
	٧	06	10	14	1 ⁵	11	12	O ₆	10	12	14	12	14	12	14	1 ²	14
	Υ	05	06	14	1 ⁵	06	10	05	O _e	05	07	05	06	O _e	10	1 ¹	12
	Z	16	17	2 ²	24	16	17	1 ²	14	16	17	16	17	16	17	20	2 ¹

Upper Case To Lower Case

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

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

						SE	CON) LI	ETTI	ΞR							
		a c g (d e		ikl	f	w		j	S	†	٧	У	;	K	2	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	O	D
F	adhgij Imnqu	16	17	2 ²	24	16	17	1 ²	14	14	15	14	1 ⁵	16	17	16	17
R S	bfkops	12	14	16	17	11	12	05	06	11	1 ²	11	12	12	14	12	14
Т	се	12	14	16	17	1 ²	14	06	10	12	14	1 ²	14	12	14	1 ²	14
Ļ	r	O _e	10	1 ²	14	06	10	O3	03	O ⁵	06	5	O _e	06	10	O _e	10
E T	† z	12	14	16	17	1 ²	14	06	10	11	1 ²	11	1 ²	12	14	12	14
T E	νу	1 ¹	12	14	15	11	12	05	06	O ₆	10	O _e	10	11	12	1 ¹	12
R	w	1 ¹	12	14	15	11	12	O ⁵	06	1 ¹	1 ²	11	1 ²	11	12	12	14
	х	12	14	16	17	11	12	05	06	11	1 ²	11	12	11	12	12	14

N.I.				
$N_{U_{M_{-}}}$	6 INCH	SERIES	8 INCH	SERIES
NU _{MBER}	C	D	С	D
1	1 ²	14	15	20
2	3 ²	40	43	5 ³
3	3 ²	40	43	5 ³
4	3 ⁵	43	47	5 ⁷
5	3 ²	40	43	5 ³
6	3 ²	40	43	53
7	3 ²	40	43	5 ³
8	3 ²	40	43	5 ³

					_
				1	5
					6
	3	9	3		7
5	D	С	D		8
					9
6	17	16	17		С
0	21	20	2 ¹		
6	17	14	15		
4	15	14	15		
4	15	14	15		

S	SER	RIES	E	S
D	С	D	'S	С
50	50	6 ⁵	а	3 ⁵
40	43	53	Ь	35

53

53

47

С

d

е

6 INCH LOWER CASE LETTERS

35

35

35

27

35

42

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44

46

36

32

42

47

64

51

53

43

SERIES

D

42

42

41

42

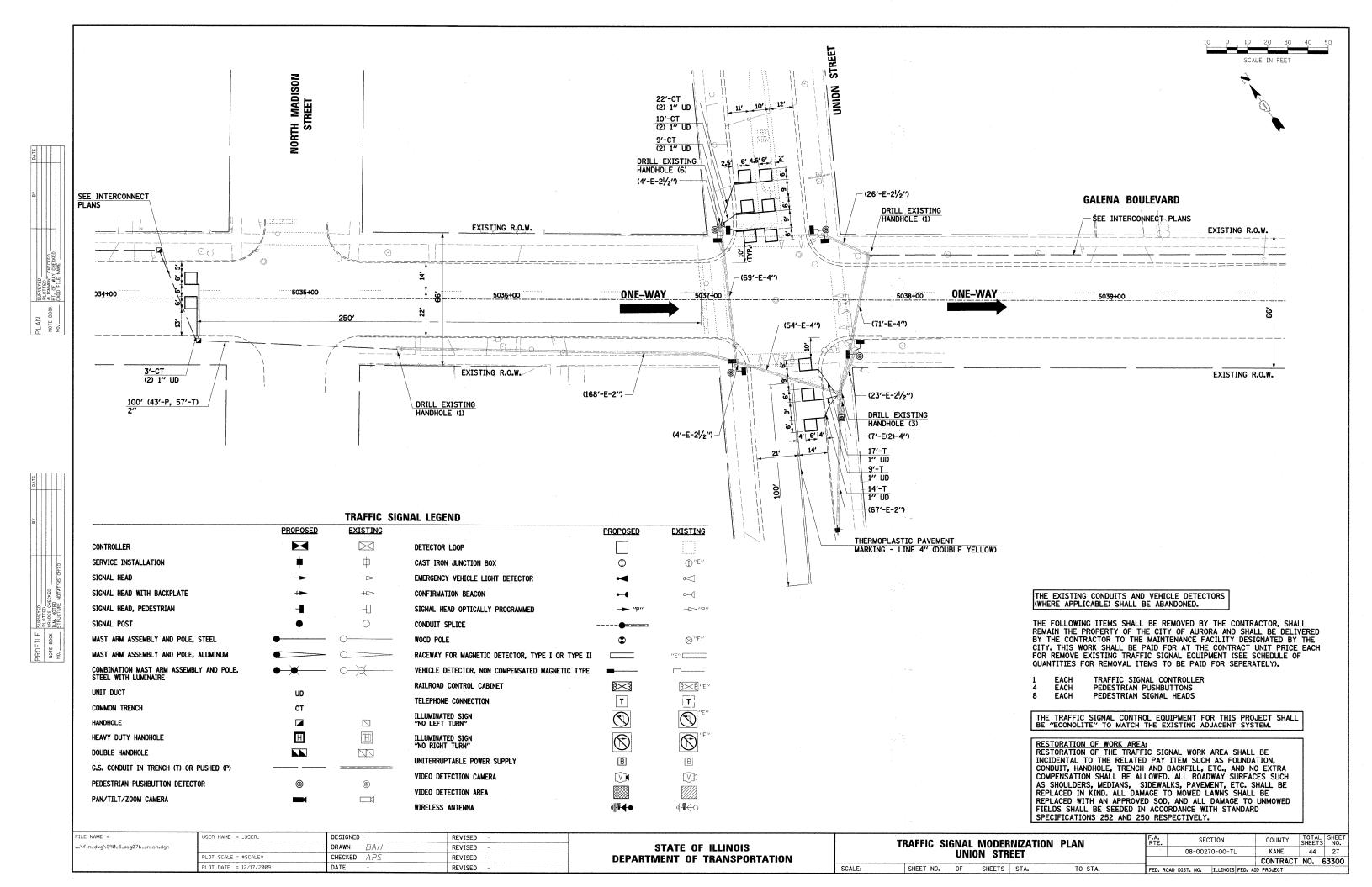
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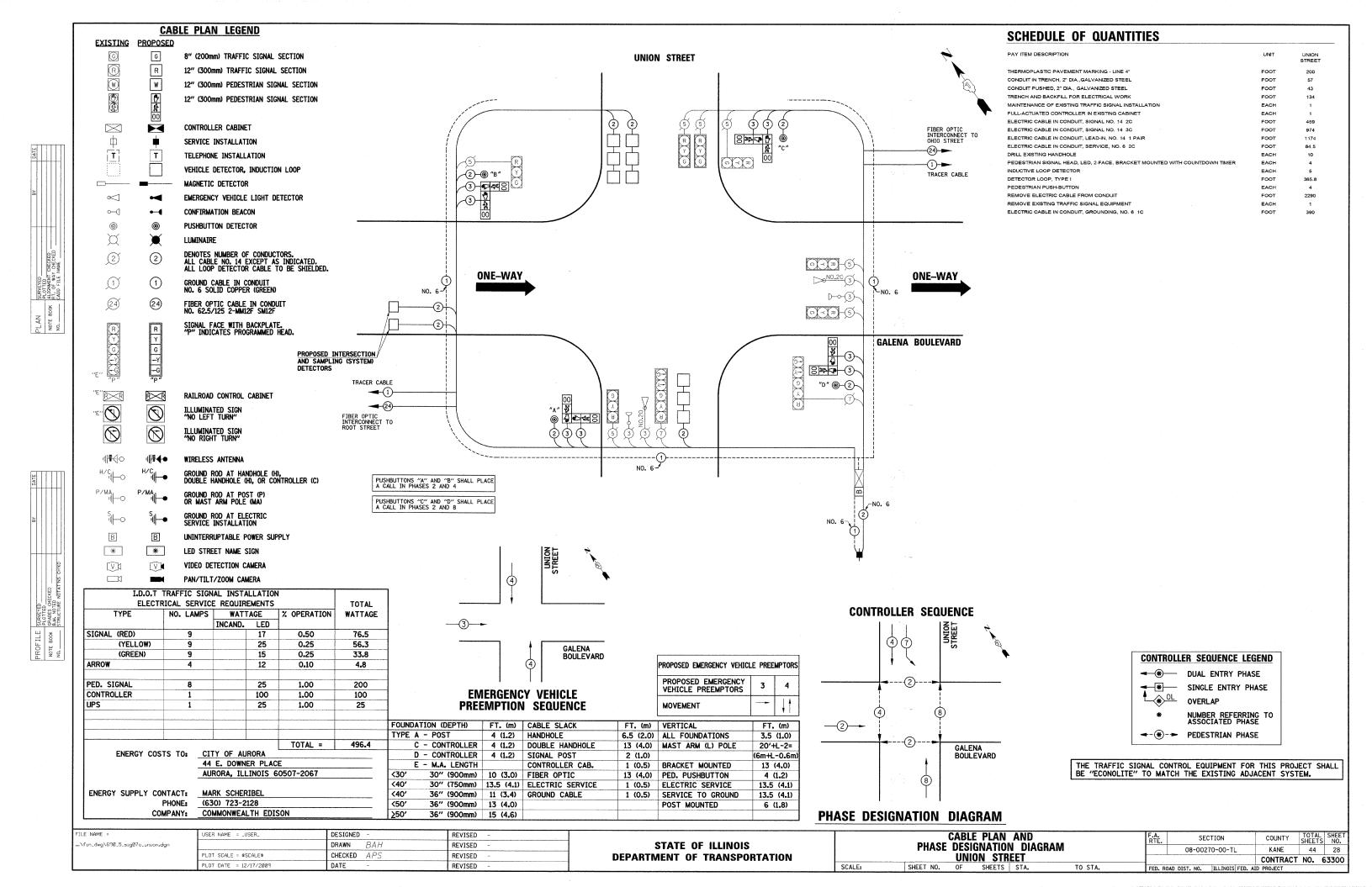
		L	l				1
F	30	3 ⁵	40	47	f	2 ³	26
G	3 ²	40	43	5 ³	g	3 5	42
Н	3 ²	40	43	5 ³	h	3 5	42
Ι	07	O ⁷	11	1 ²	i	1 ¹	11
J	30	36	40	50	j	20	2 ²
K	3 ²	41	43	5 ⁴	k	3 ⁵	42
L	3 ⁰	3 ⁵	40	47	I	11	1 ¹
М	37	45	5 ¹	6 ¹	m	6º	70
Ν	3 ²	40	43	5 ³	U	3 ⁵	42
0	34	42	45	5 ⁵	0	36	43
Р	3 ²	40	43	5 ³	P	3 ⁵	42
Q	34	42	45	5 ⁵	a	3 ⁵	42
R	3 ²	40	43	5 ³	r	2 ⁶	3 ²
S	32	40	43	53	S	36	42

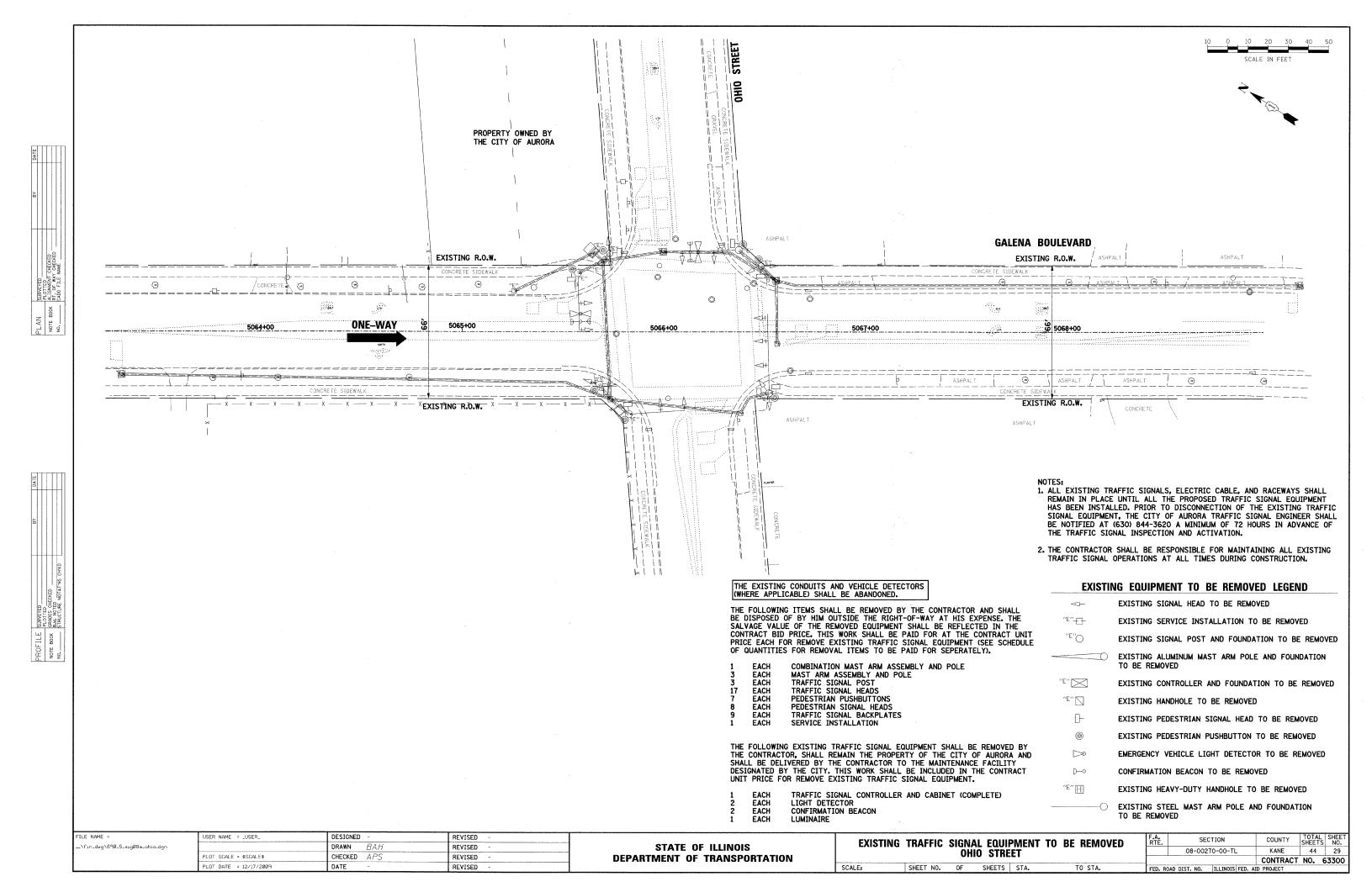
 F.A.	SECTION	COUNTY	TOTA

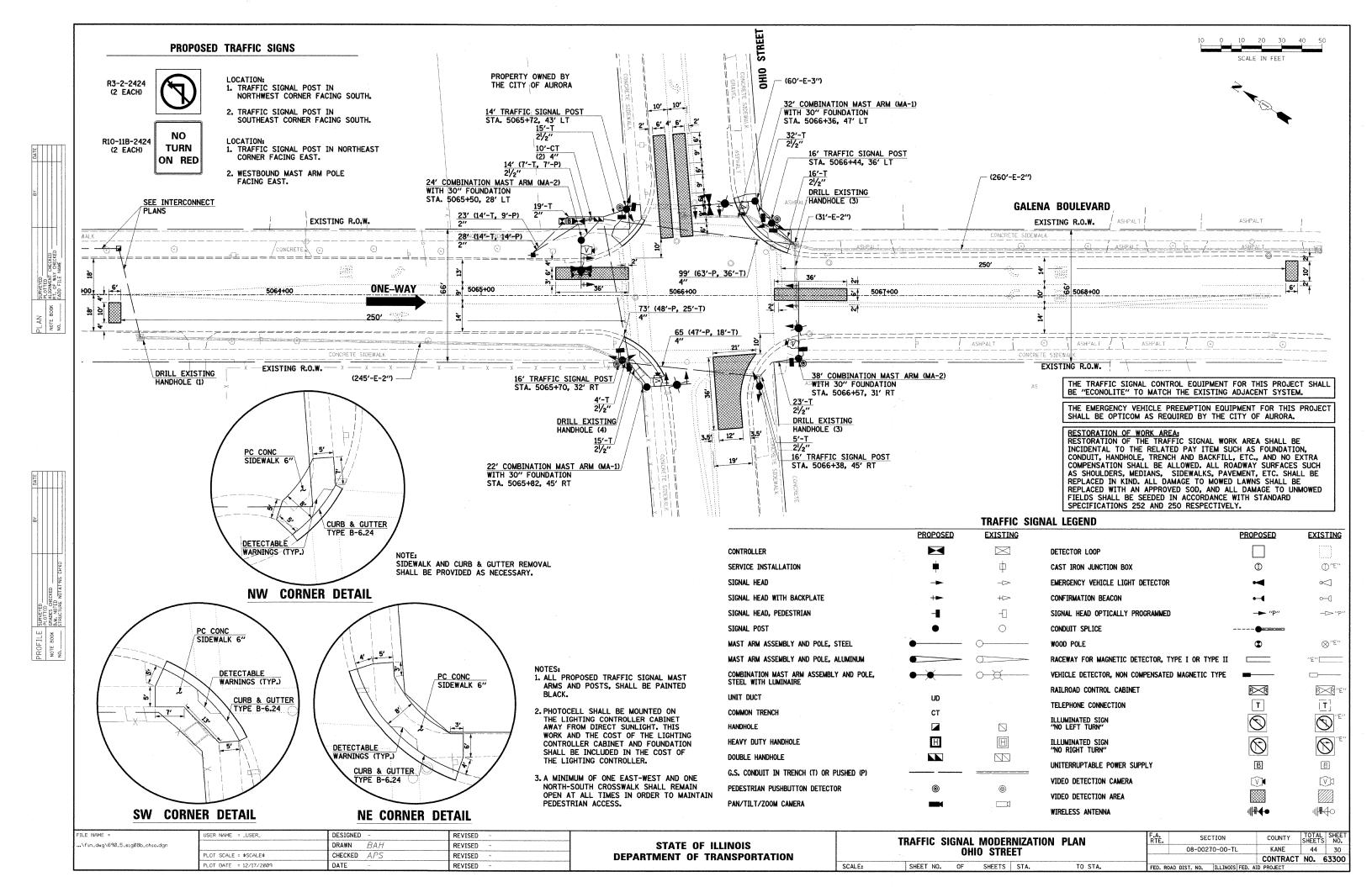
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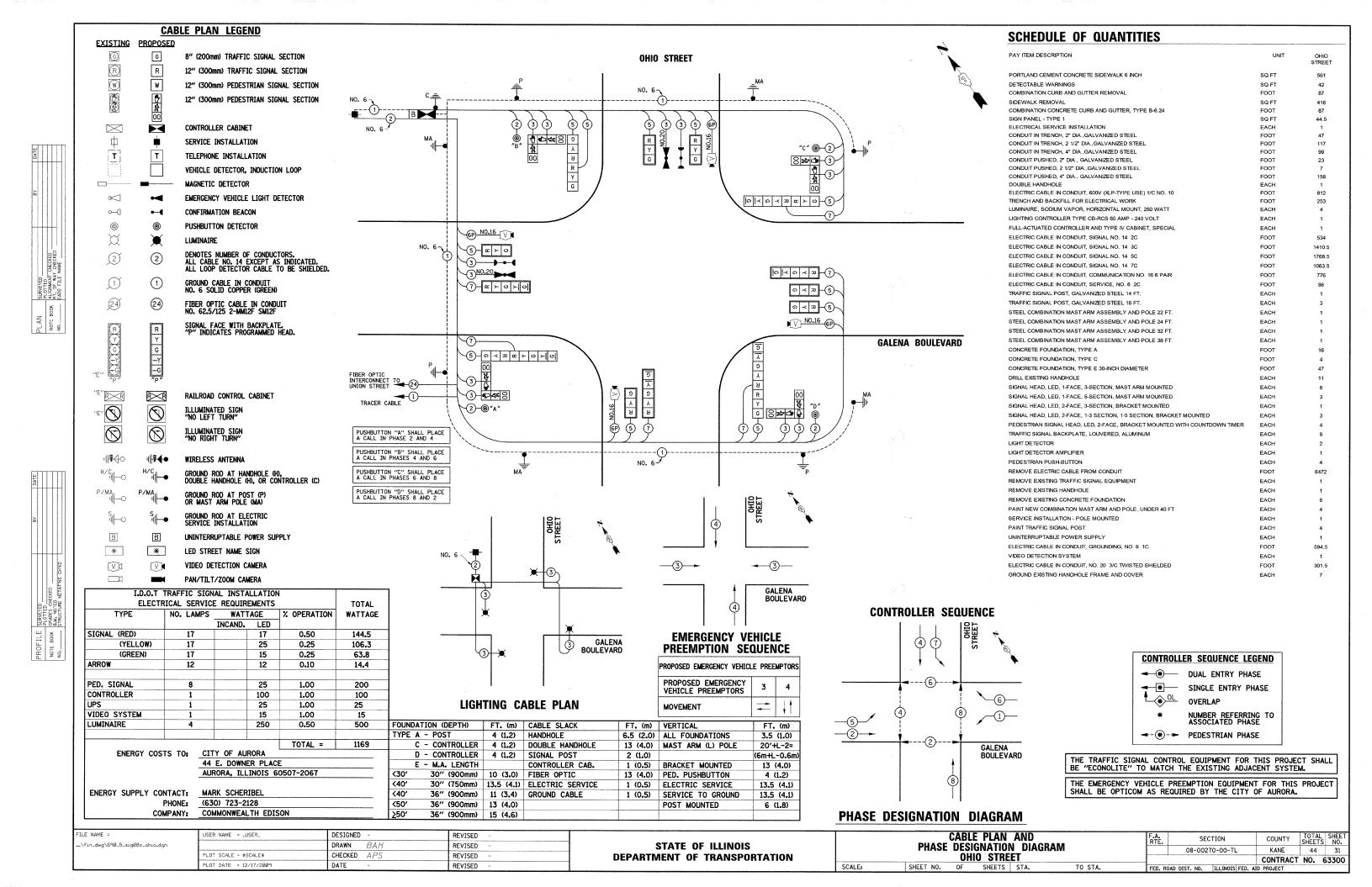
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** MAST ARM MOUNTED STREET NAME SIGNS 08-00270-00-TL ROOT STREET CONTRACT NO. 63300 TO STA. FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

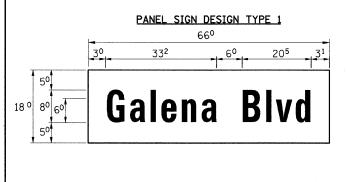




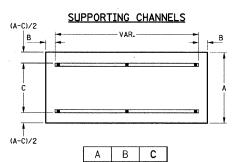












	30"	2"	22"	
EX A	ALUMINUN	4 CHANN	NEL FRA	MING SYSTEM



6.00 Sq. Ft each

2 Required

Design Series D

MA-2

2"±

SINGLE ARM

DUAL ARM

SECURE SIGN TO MAST ARM-

GENERAL NOTES

- 1. 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 $\frac{3}{4}$ " WIDE AND CORNER RADIUS SHALL BE $\frac{2!}{4}$ ".
- 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. CHICAGO HEIGHTS, IL.
- TUCKER COMPANY, INC.
- WESTERN TRAFFIC CONTROL, INC. CICERO, IL.

WAUWATOSA, WI.

PARTS LISTING:

SIGN CHANNEL

PART 3HPN053 (MED. CHANNEL)
1/4" X 14 X 1" H.W.H. #3

SIGN SCREWS ¼" 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.



Upper Case To Lower Case

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

EXAMPLE, 2 DENOTES 3/8"

SECOND LETTER																	
			d e o q	b h m n i	ikl oru	f	w		j	S	†	٧	У	,	<	ī	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
	AWX	12	14	14	15	12	14	06	10	11	14	O ₆	10	11	12	12	14
	В	14	1 ⁵	20	21	14	1 ⁵	11	12	14	15	12	14	12	14	16	17
	CEG	14	1 ⁵	2 ⁰	2 ¹	12	14	06	10	12	14	12	14	14	15	14	15
Ę	DOQR	14	15	20	2 ¹	14	1 ⁵	06	10	12	14	12	14	14	15	14	15
I R	F	05	06	14	15	06	10	05	06	O _e	1.0	Oe	10	O _e	10	11	12
S	HIMN	2 ⁰	2 ¹	2 ²	24	20	21	14	15	16	17	16	17	20	2 ¹	20	21
	JU	20	2 ¹	20	2 ¹	16	17	14	15	16	-1 ⁷	16	17	16	17	20	21
E	K L	11	12	16	17	1 ¹	1 ²	05	06	1 ¹	1 ²	11	1 ²	11	1 ²	12	14
T	Р	12	14	14	15	12	14	05	06	11	12	1 ¹	12	12	14	12	14
E R	S	12	14	16	17	12	14	O _e	10	12	14	12	14	1 ²	14	12	14
K	Т	11	12	16	17	06	1º	06	10	11	1 ²	11	1 ²	11	12	12	14
	٧	06	10	14	15	1 ¹	12	06	10	1 ²	14	12	14	1 ²	14	12	14
	Y	O ⁵	06	14	1 ⁵	06	1º	05	06	05	07	05	06	06	10	11	12
	Z	16	17	2 ²	2 ⁴	16	17	1 ²	14	16	1,7	16	17	16	17	20	21

Lower Case To Lower Case

Spacing Chart 6 Inch Series "C & D"

						SE	CON	D LI	ETTI	ER				***************************************			.,
		a c	d e		ikl pru	f	W		j	S	t	v	у	;	×	:	Z
	SERIES	С	D	С	D	С	D	C	D	С	D	С	D	С	D	С	D
F	adhgij Imnqu	16	17	2 ²	24	16	17	12	14	14	15	14	15	16	17	16	17
R	bfkops	1 ²	14	1 ⁶	17	11	12	05	O _e	11	12	1 ¹	12	12	14	12	14
Т	се	12	14	16	17	1 ²	14	06	10	12	14	12	14	12	14	12	14
Ļ	r	Oe	10	1 ²	1 4	Oe	10	03	03	05.	.O6	O ⁵	06	Oe	10	06	10
E	† z	1 ²	14	1 ⁶	17	12	14	06	10	11	12	11	12	12	14	12	14
T	v y	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
R	w	1 ¹	12	14	1 ⁵	11	12	05	06	11	1 ²	11	12	11	12	12	14
	х	1 ²	14	1 ⁶	17	11	12	05	06	1 ¹	12	1 ¹	12	11	1 ²	12	14

Number To Number

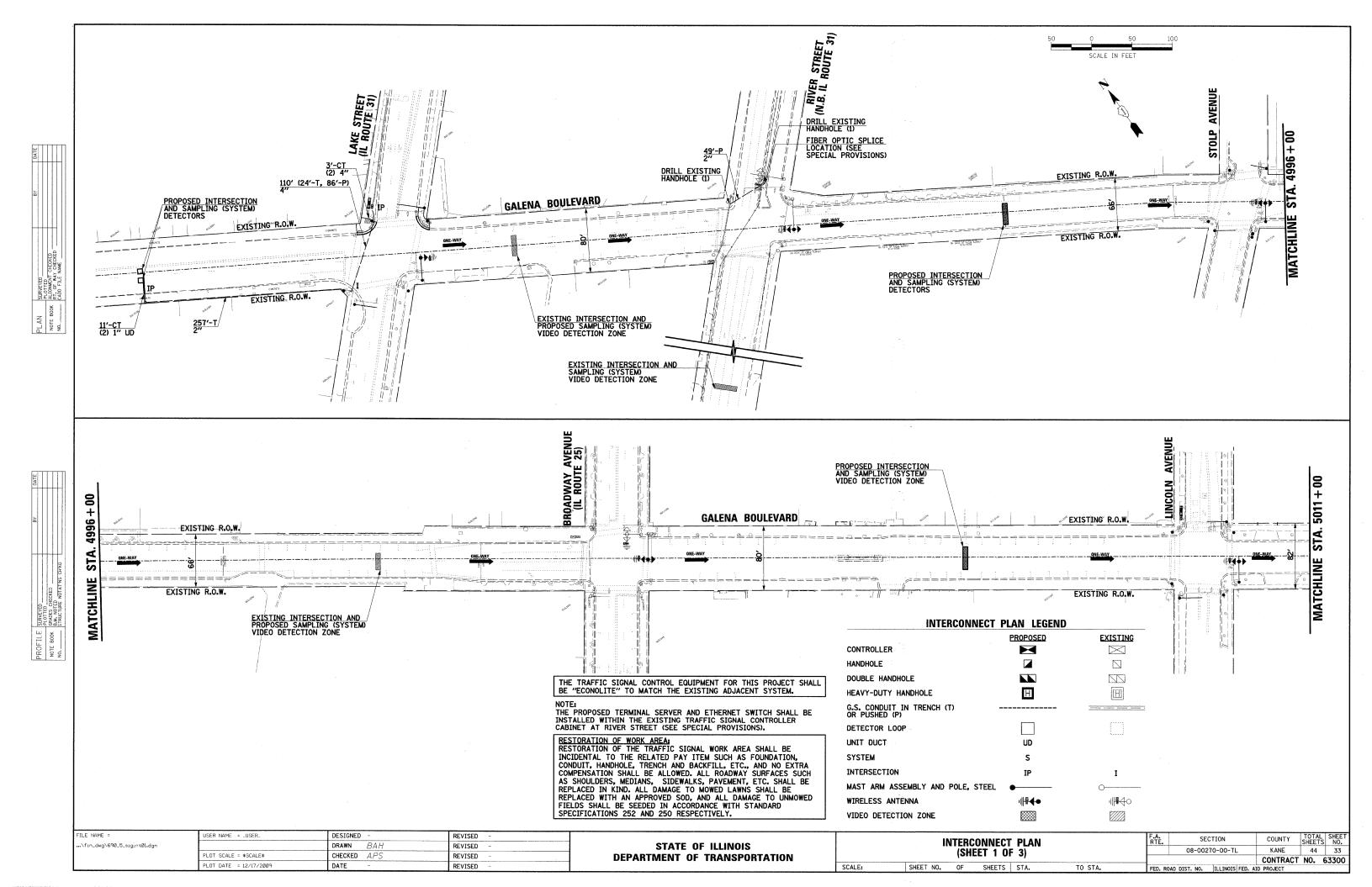
Spacing Chart 8 Inch Series "C & D"

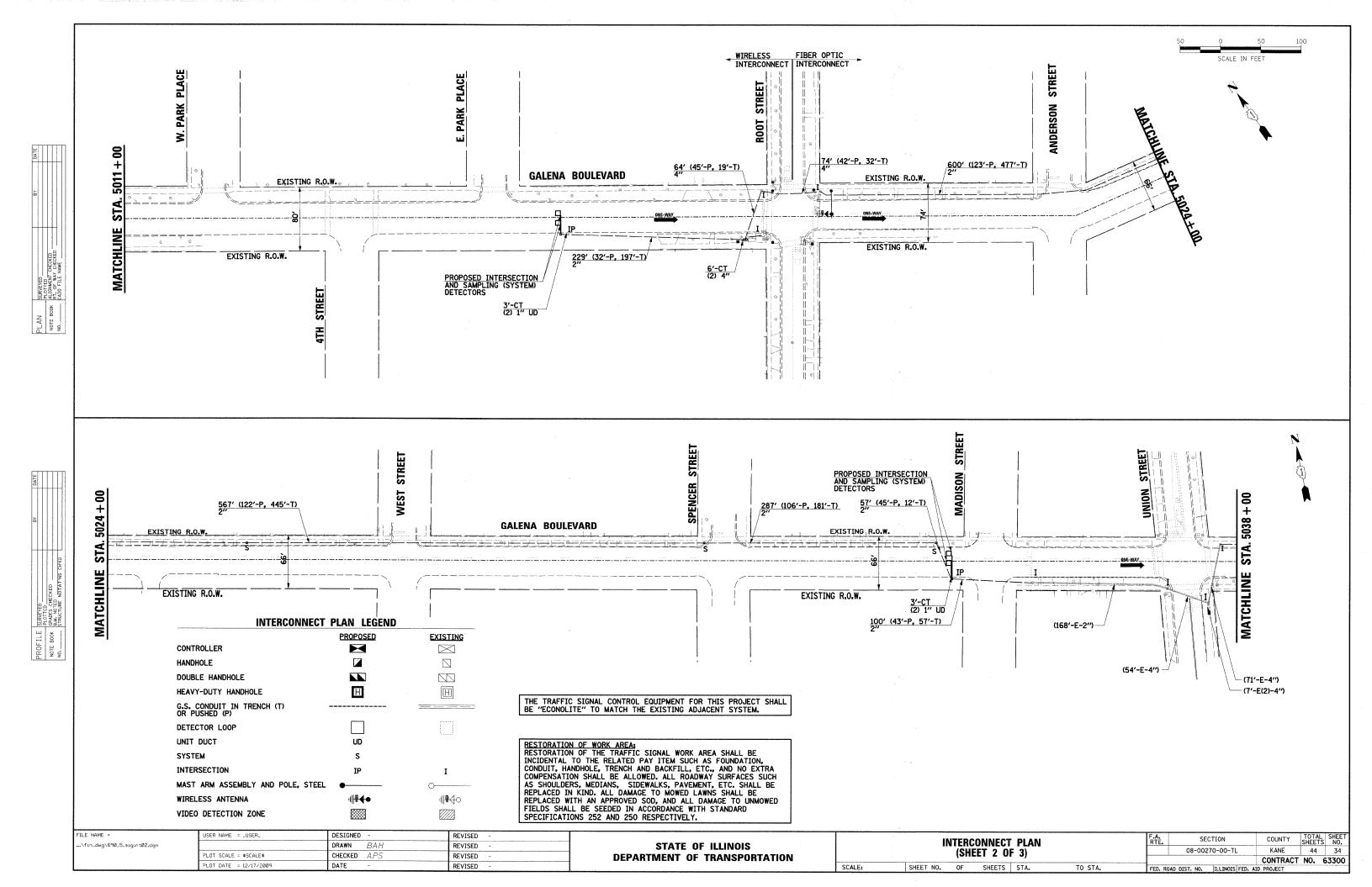
								S	ECC	ND	LE	TTE	R								
		()	:	l	2	2		3	4	4	Ę	5	(5	-	7	8	3	9	9
F [SERIES	С	D	С	D	С	D	С	D	С	D	С	D	C-	D	С	D	С	D	С	D
I	0 9	16	17	16	17	14	15	12	14	14	15	14	1.5	16	17	12	14	16	17	16	17
R	1	20	21	20	2 ¹	20	2 ¹	16	17	14	1 ⁵	20	21	20	2 ¹	14	1 ⁵	20	2 ¹	20	21
Τ [2 3 4	14	1 ⁵	14	15	14	1 ⁵	12	14	12	14	14	15	14	15	11	12	16	17	14	15
N	5	14	15	14	15	14	1 ⁵	11	1 ²	11	12	14	15	14	15	11	12	14	15	14	15
М	6	16	17	14	15	14	15	12	1 ⁵	1 ²	14	14	15	14	15	11	12	14	1 ⁵	14	15
B [7	1 ²	14	1 ²	14	14	1 ⁵	1 ²	1 ⁵	05	06	1 ²	14	14	15	1 ¹	12	14	1 ⁵	12	14
R	8	16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

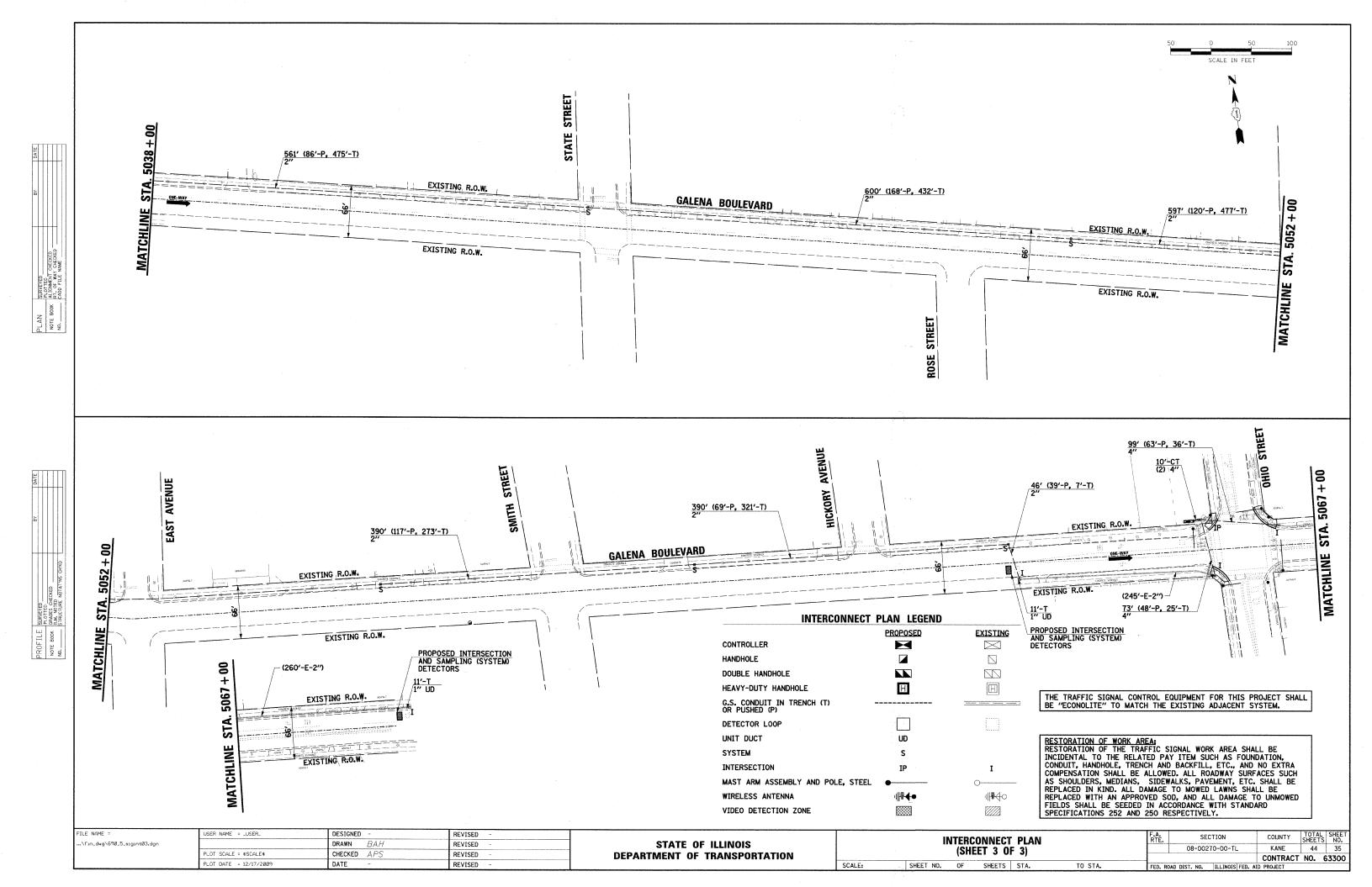
L _E T _{ER} S	6 INCH CASE LE		8 INCH CASE LE	UPPER ETTERS	L _E TT	6 INCH CASE LE	
E _p	SER	IES	SER	IES	E	SER	IES
'S	С	D	С	D	'`s	С	D
Α	36	50	50	6 ⁵	а	35	42
В	3 ²	40	43	53	Ь	3 ⁵	42
С	3 ²	40	43	53	С	3 ⁵	41
D	3 ²	40	43	5 ³	d	35	42
E	30	3 ⁵	40	47	е	35	42
F	30	35	40	47	f	23	26
G	3 ²	40	43	5 ³	g	35	42
Н	3 ²	40	43	5 ³	h	3 ⁵	42
I	07	07	- 1 ¹	12	i	11	11
J	30	36	40	5 ⁰	j	20	2 ²
K	3 ²	41	43	5 ⁴	k	35	42
L	30	3 ⁵	40	47	ı	11	1 ¹
М	37	45	5 ¹	6 ¹	m	6 ⁰	70
N	3 ²	40	43	53	n	35	42
0	34	42	45	5 ⁵	0	36	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	30	35	40	47	†	27	32
U	3 ²	40	43	5 ³	u	35	42
٧	35	44	47	6 ⁰	V	42	47
W	44	5 ²	6 ⁰	70	w	5 ⁵	64
Χ	34	40	45	5 ³	×	44	5 ¹
Υ	36	50	50	6e	У	46	53
Z	3 ²	40	43	5 ³	z	36	43
	<u> </u>						

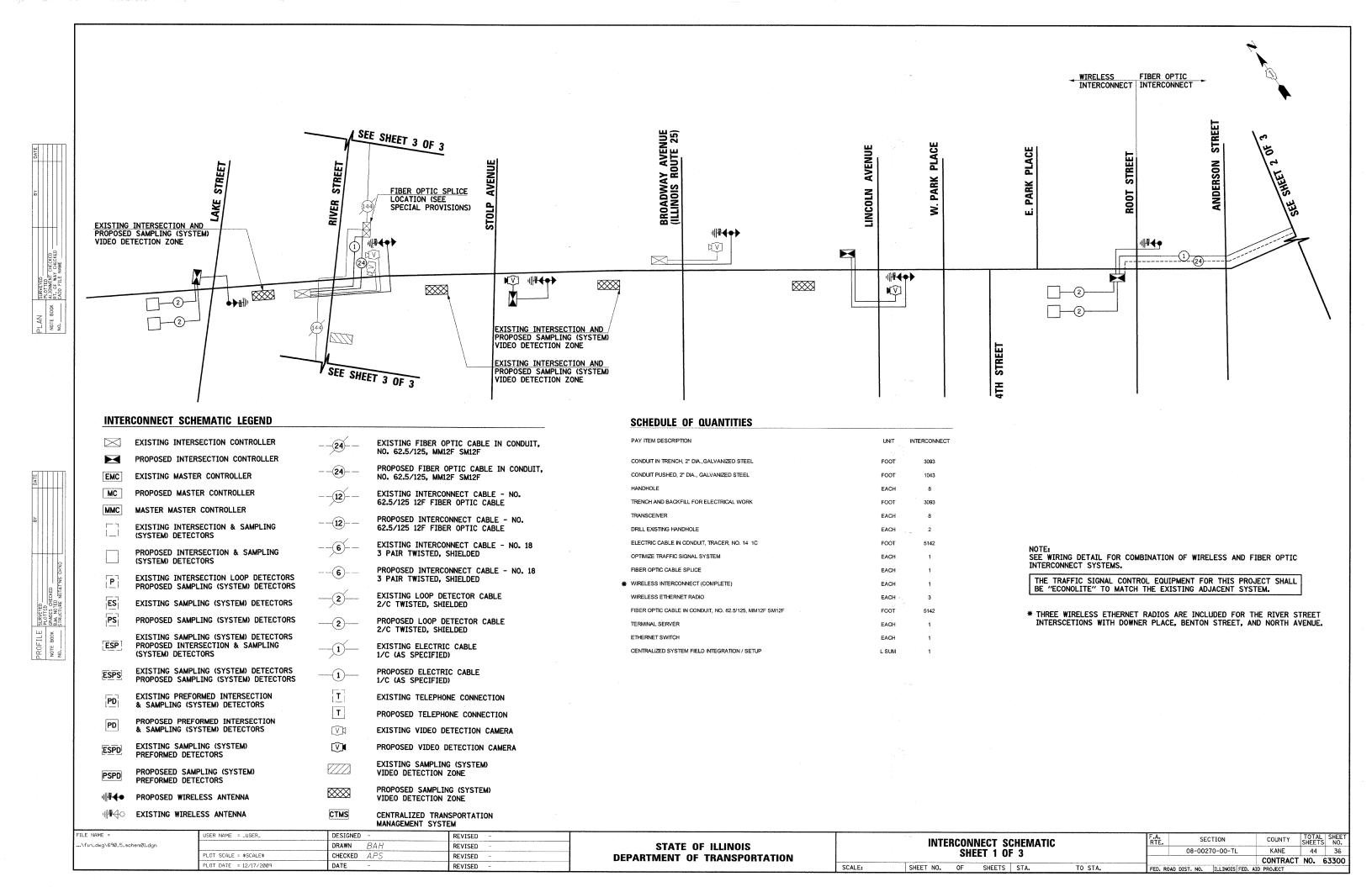
NU _{MBER}	6 INCH	SERIES	8 INCH	SERIES
"B _{ER}	С	D	С	D
1	12	14	15	20
2	3 ²	40	43	53
3	3 ²	40	43	53
4	35	43	47	5 ⁷
5	3 ²	40	43	5 ³
6	3 ²	40	43	53
7	32	40	43	53
8	3 ²	40	43	53
9	3 ²	40	43	53
0	3 ⁴	42	45	5 ⁵

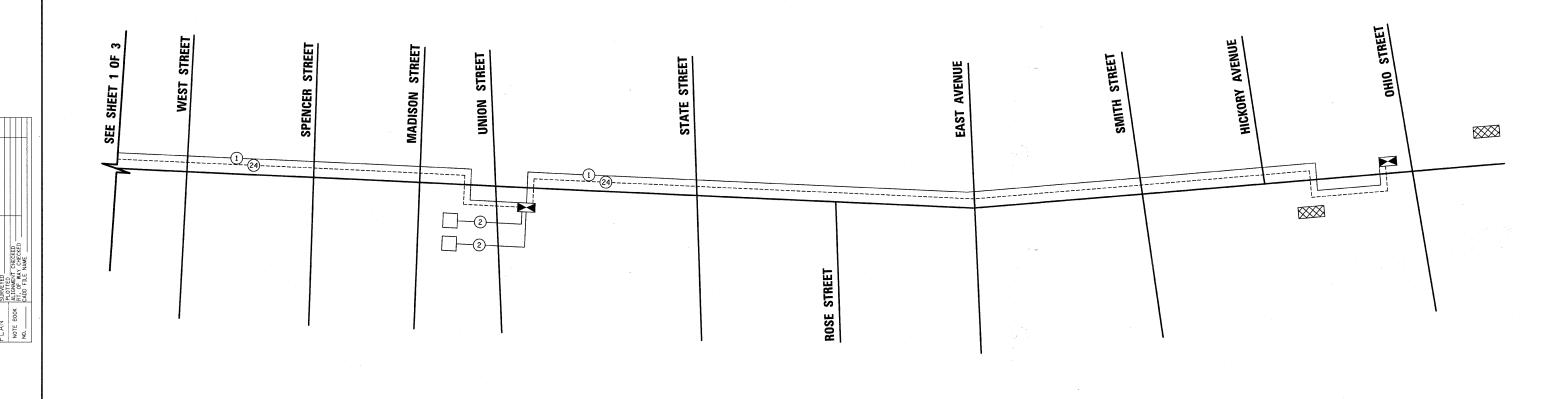
CTATE OF HIMOIC		MA			DUNTE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SI	REET OHI		SIGNS			08-00270-00-TL	KANE CONTRACT	44 F NO	32 63300
	SCALE:	SHEET NO.	0F	SHEETS	STA.	TO STA.	FED. F	ROAD DIST. NO. ILLINOIS FED. A		1101	03300











INTER	CONNECT SCHEMATIC LEGEND		
\boxtimes	EXISTING INTERSECTION CONTROLLER	24	EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
lacksquare	PROPOSED INTERSECTION CONTROLLER		•
EMC	EXISTING MASTER CONTROLLER	24	PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
MC	PROPOSED MASTER CONTROLLER	(12)	EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
MMC	MASTER MASTER CONTROLLER	Z."	
	EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS	(12)	PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
	PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	6	EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
P	EXISTING INTERSECTION LOOP DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS	6	PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
ES	EXISTING SAMPLING (SYSTEM) DETECTORS		EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
PS	PROPOSED SAMPLING (SYSTEM) DETECTORS		PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
ESP	EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS		EXISTING ELECTRIC CABLE 1/C (AS SPECIFIED)
ESPS	EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS		PROPOSED ELECTRIC CABLE 1/C (AS SPECIFIED)
PD	EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	T	EXISTING TELEPHONE CONNECTION
	PROPOSED PREFORMED INTERSECTION	T	PROPOSED TELEPHONE CONNECTION
PD	& SAMPLING (SYSTEM) DETECTORS	[V]	EXISTING VIDEO DETECTION CAMERA
ESPD	EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS	\bigcirc	PROPOSED VIDEO DETECTION CAMERA
PSPD	PROPOSEED SAMPLING (SYSTEM) PREFORMED DETECTORS		EXISTING SAMPLING (SYSTEM) VIDEO DETECTION ZONE
 -	PROPOSED WIRELESS ANTENNA		PROPOSED SAMPLING (SYSTEM) VIDEO DETECTION ZONE
	EXISTING WIRELESS ANTENNA	CTMS	CENTRALIZED TRANSPORTATION MANAGEMENT SYSTEM

DESIGNED

DATE

DRAWN BAH
CHECKED APS

REVISED

REVISED

REVISED

REVISED

USER NAME = _USER_

PLOT SCALE = \$SCALE\$

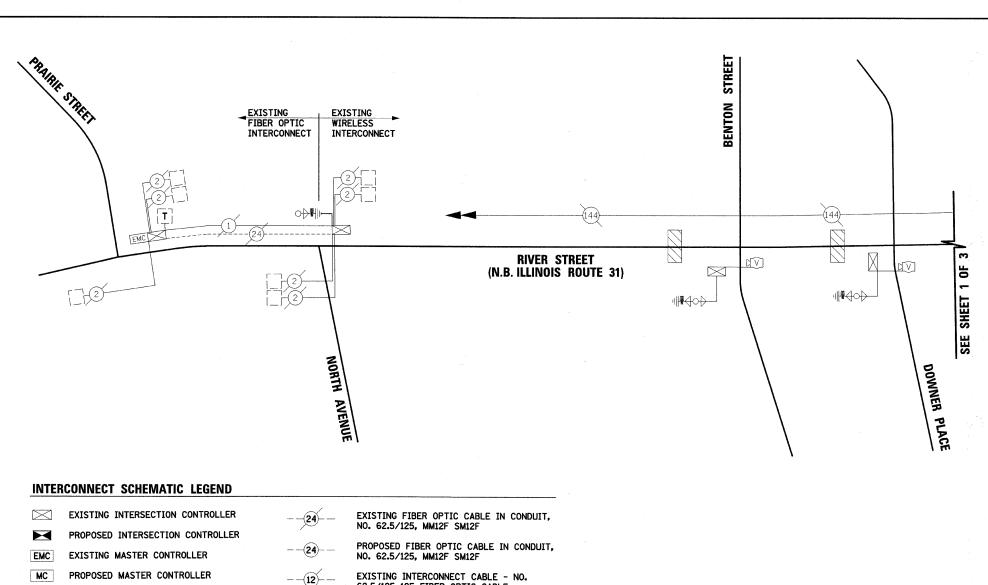
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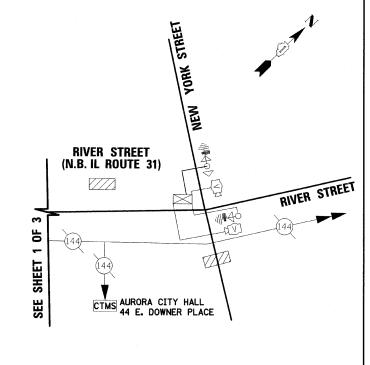
FILE NAME =

..\fin_dwg\690_5_schem02.dgn

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

CTATE OF HUMOIC		INTE	RCON	NECT SO	HEMATIC	2	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			SHI					08-00270-00-TL	KANE CONTRAC	44 T NO 4	37 63300
DELANTIMENT OF THANGS ON A TION	SCALE:	SHEET NO.	OF	SHEETS	FED. RO	DAD DIST. NO. ILLINOIS FED. #		I NU.	63300		





	EXISTING INTERSECTION CONTROLLER	24	EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
EMC	PROPOSED INTERSECTION CONTROLLER EXISTING MASTER CONTROLLER	(24)	PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
MC	PROPOSED MASTER CONTROLLER	(12)	EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
MMC	MASTER MASTER CONTROLLER EXISTING INTERSECTION & SAMPLING	(12)	PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
\ _ \	(SYSTEM) DETECTORS PROPOSED INTERSECTION & SAMPLING	6	EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
P	(SYSTEM) DETECTORS EXISTING INTERSECTION LOOP DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS	6	PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
ES	EXISTING SAMPLING (SYSTEM) DETECTORS		EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
PS	PROPOSED SAMPLING (SYSTEM) DETECTORS		PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
ESP	EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	1	EXISTING ELECTRIC CABLE 1/C (AS SPECIFIED)
ESPS	EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS		PROPOSED ELECTRIC CABLE 1/C (AS SPECIFIED)
PD	EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS		EXISTING TELEPHONE CONNECTION
	PROPOSED PREFORMED INTERSECTION	Т	PROPOSED TELEPHONE CONNECTION
PD	& SAMPLING (SYSTEM) DETECTORS	\mathbb{V}_{1}	EXISTING VIDEO DETECTION CAMERA
ESPD	EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS	$\widehat{\mathbb{V}}^{\P}$	PROPOSED VIDEO DETECTION CAMERA
PSPD	PROPOSEED SAMPLING (SYSTEM) PREFORMED DETECTORS		EXISTING SAMPLING (SYSTEM) VIDEO DETECTION ZONE

NOTE:
THE EXISTING MASTER CONTROLLER AT PRAIRIE STREET SHALL BE
REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF
THE CITY OF AURORA, AND SHALL BE DELIVERED BY THE CONTRACTOR
TO THE MAINTENANCE FACILITY DESIGNATED BY THE CITY. THIS WORK
WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE
UNIT BID PRICES OF THE CONTRACT.

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

CENTRALIZED TRANSPORTATION MANAGEMENT SYSTEM FILE NAME = DESIGNED REVISED .\fin_dwg\690_5_schem03.dgn DRAWN BAH REVISED PLOT SCALE = \$SCALE\$ CHECKED APS REVISED REVISED

PROPOSED WIRELESS ANTENNA

EXISTING WIRELESS ANTENNA

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CTMS

PROPOSED SAMPLING (SYSTEM) VIDEO DETECTION ZONE

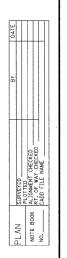
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

INTERCONNECT SCHEMATIC SHEET 3 OF 3 SHEET NO. OF SHEETS STA.

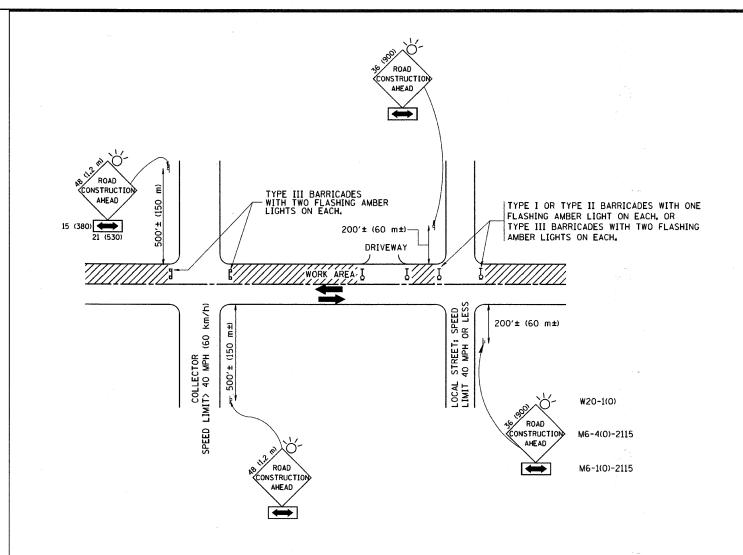
TO STA.

SCALE:

SECTION COUNTY 08-00270-00-TL KANE 44 38 CONTRACT NO. 63300 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT







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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h)
 AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY.
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

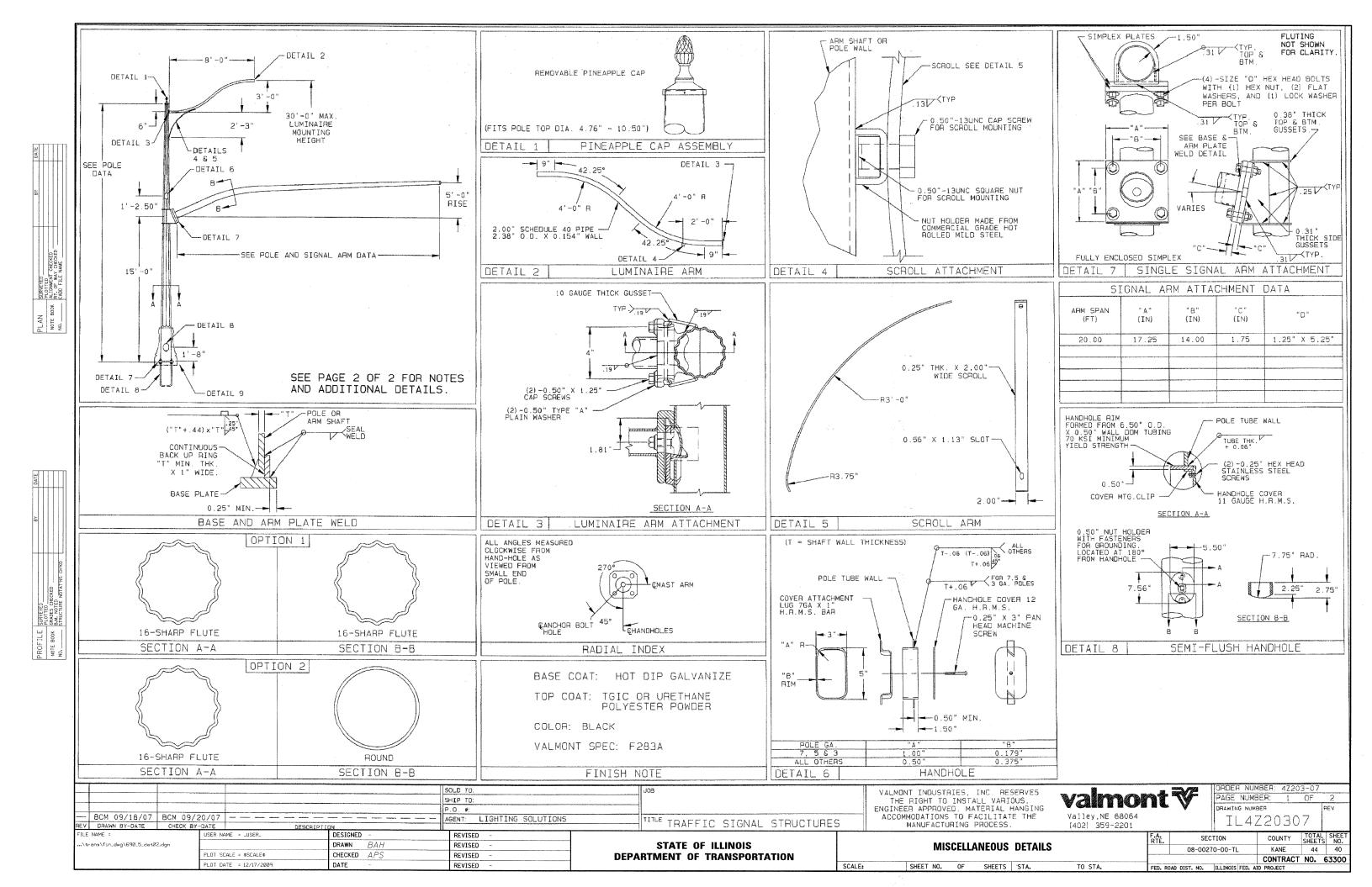
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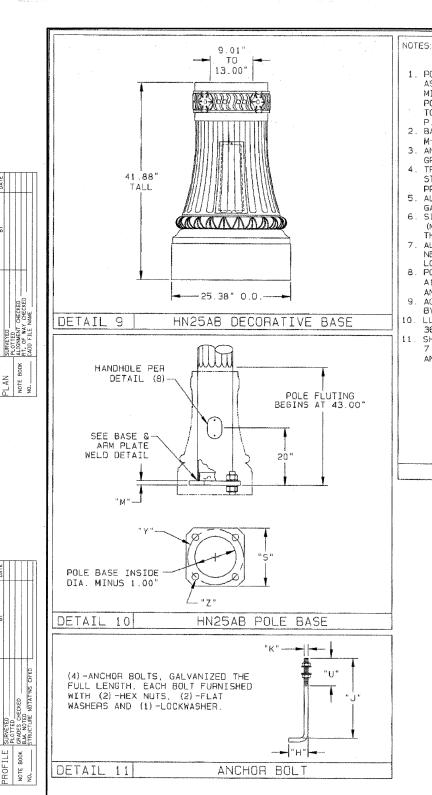
All dimensions are in millimeters (inches) unless otherwise shown.

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	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -
	PLOT DATE = 12/17/2009	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC C	ONTROL AND	PROTE	CTION	F.A. RTE.	SEC	TIOI
			DRIVEWAYS		08-0027	0-0
SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD I	DIST. NO.	ILL





1. POLE AND ARM SHAFTS 13.00" AND SMALLER-CONFORMS TO ASTM DESIGNATION: A595 GR. A WITH 55,000 P.S.I MININMUM YIELD STRENGTH, LINEAR TAPER-0.14"/FT POLE AND SIGNAL ARM DATA - OPTION 1 MINIAMOM TIELD STHENDIR. LINEAM TAPERTO.14 /TT.
POLE AND ARM SHAFTS LARGER THAN 13.00"-CONFORMS
TO ASTM DESIGNATION: M-223 A572 GR. 65 WITH A 65,000
P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT.
2 BASE PLATE AND SIMPLEX PLATES-CONFORM TO AASHTO POLE TUBE POLE BASE ANCHOR BOLT SIGNAL ARM TUBE MAXIMUM IXED GAUGE GAUGE OR HREAL LUMINAIRE HOOK "H" TOP THK. HOLE / SLOT LENGTH BASE SQUARE LENGTH OFI LENGTH CIACLE END ARM SPAN DIA. DIA THICK THK. DIA. (FT) (6EA :MTSA) E81-M (FT) (FT) (IN) (IN) (IN) (IN) (IN) (IN) (IN) (IN) ANCHOR BOLTS-ALL STRUCTURES: ASTM F1554 (IN) (IN) (IN) (IN) (IN) GR.55 55,000 P.S.I. MINIMUM YIELD STRENGTH. (AASHTO M314) TRAFFIC SIGNAL ARM END CAP SECURED IN PLACE WITH 3 9.00 20.00 8.00 54 00 5.00 8 00 1.50 1.50 12.50 8.65 27.50 5 17.00 17.00 1.75 STAINLESS STEEL SET SCREWS. (TRAFFIC SIGNAL ARM END CAP PROVIDED WITH (2) ADDITIONAL STAINLESS STEEL HEX BOLTS) ALL NON-STAINLESS THREADED FASTENERS TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232) SIMPLEX CONNECTING BOLTS-ASTM DESIGNATION: A325 (M164) GALVANIZED TO ASTM DESIGNATION: A153 LUBRICATE THREADS IN FIELD IF NECESSARY BEFORE INSTALLATION. ALL VEHICULAR AND/OR PEDESTRIAN SIGNAL LIGHTS AND NECESSARY HARDWARE FOR ATTACHMENT TO BE FIELD LOCATED AND FURNISHED BY OTHERS. 8. POLES AND ARMS TO BE GALVANIZED TO ASTM DESIGNATION: A123 (AASHTO MIII). ACCESSORIES TO BE HOT DIP GALV-ANIZED TO ASTM DESIGNATION: A153 (AASHTO M232). POLE AND SIGNAL ARM DATA - OPTION 2 POLE BASE POLE TURE ANCHOR BOLT SIGNAL ARM TUBE ACCESS HOLES IN AHMS AT SIGNALS TO BE FIELD DRILLED BY CONTRACTOR-LOCATED AS SHOWN IN PLANS. LUMINAIRE ARM SHAFT CONFORMS TO 2° SCHEDULE 40 PIPE W/ MAXIMUM FIXED GAUGE END OR GAUGE SQUARE BOLT CIRCLE LUMINAIRE LENGTH HOOK BASE HOLE / SLOT LENGTH SPAN ENGTH 90 ARM SPAN DIA. DIA. "H" THK. DIA. THICK (FT) (FT) 36,000 PSI MIN. YIELD STRENGTH. (FT) (IN) SHAFT GAUGE OR THICKNESS ARE AS FOLLOWS: 11 GA.= 0.1196" 7 GA.= 0.1793", 5 GA.= 0.2092", 3 GA.=0.2391", (IN) 8.00 8.00 7 20.00 8.00 12.50 8.65 27.50 5 17.00 17.00 1.50 1.75 1,50 54.00 6.00 AND 2" SCHED.40 PIPE = 0.154" LOADING AND ALLOWABLE STRESS CRITERIA: 1994 AASHTO
"STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR
SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".

TITLE TRAFFIC SIGNAL STRUCTURES

SCALE:

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, valmont ENGINEER APPROVED, MATERIAL HANGING Valley,NE 68064 ACCOMMODATIONS TO FACILITATE THE

(402) 359-2201

ORDER NUMBER: 4Z203-07 PAGE NUMBER: DRAWING NUMBER

STATE OF ILLINOIS

GENERAL NOTES

MISCELLANEOUS DETAILS

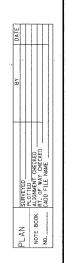
TOTAL SHEE SHEETS NO. SECTION COUNTY 08-00270-00-TL KANE 44 41 CONTRACT NO. 63300

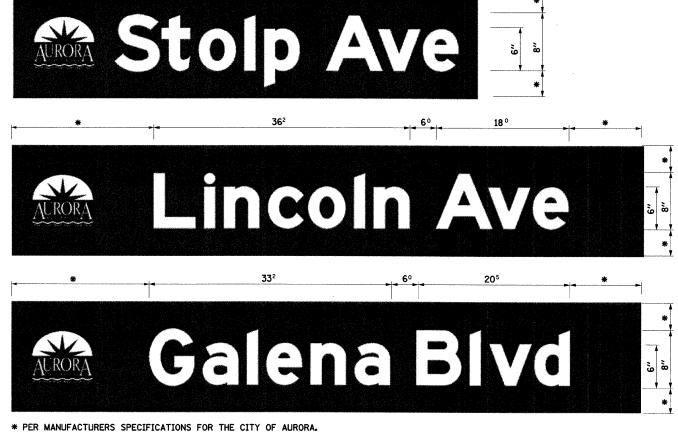
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SHEET NO. OF SHEETS STA. TO STA.

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





DESIGNED

DRAWN BAH

CHECKED APS

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REVISED

REVISED

LED STREET NAME SIGNS (CLEARVIEW FONT - DESIGN SERIES "D")

THESE SIGNS SHALL BE INSTALLED AT THE LOCATIONS INDICATED IN THE PLANS.

PLOT SCALE = \$SCALE\$

SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

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Lake St

UPPER CASE TO LOWER CASE SPACING CHART 8-6 INCH SERIES "C & D"

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	CEG	14	15	2 ⁰	2 ¹	12	14	O _e	10	12	1 4	12	14	14	15	14	1 ⁵
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LOWER CASE TO LOWER CASE SPACING CHART 6 INCH SERIES "C & D"

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NUMBER TO NUMBER SPACING CHART 8 INCH SERIES "C & D"

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N	5	14	1 ⁵	14	1 ⁵	14	1 ⁵	1 ¹	12	11	1 ²	14	15	1.4	1 ⁵	1 ¹	12	14	15	14	15
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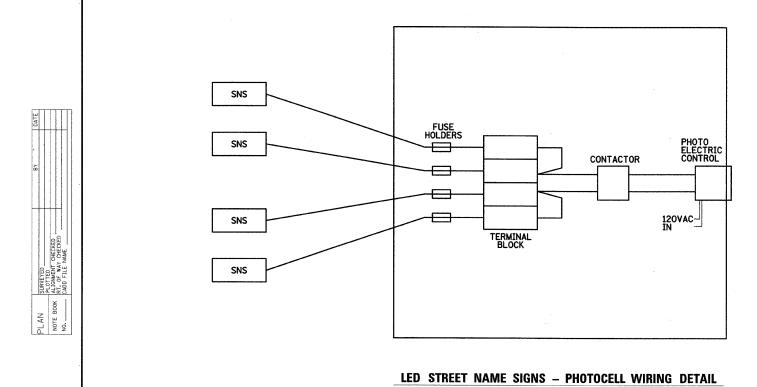
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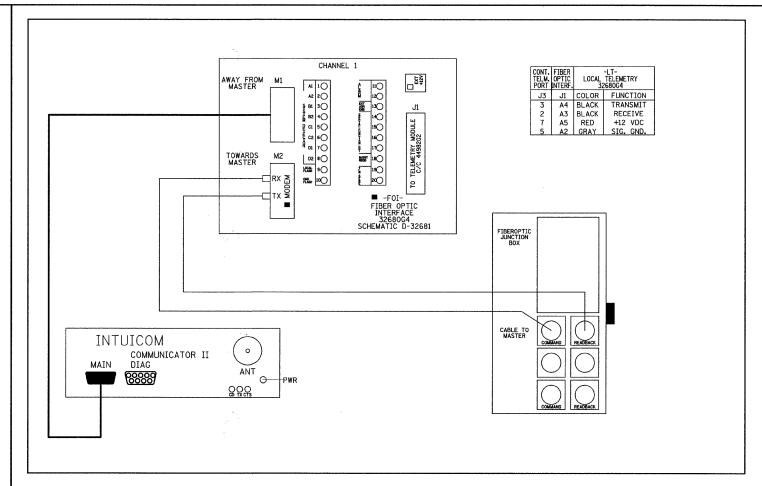
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STATE OF ILLINOIS

SECTION TOTAL SHEE SHEETS NO. COUNTY **MISCELLANEOUS DETAILS** 08-00270-00-TL CONTRACT NO. 63300 SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

DEPARTMENT OF TRANSPORTATION



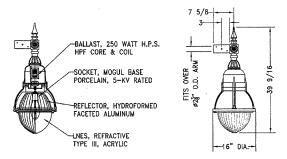


WIRING DETAIL FOR COMBINATION OF WIRELESS AND FIBER OPTIC INTERCONNECT SYSTEMS

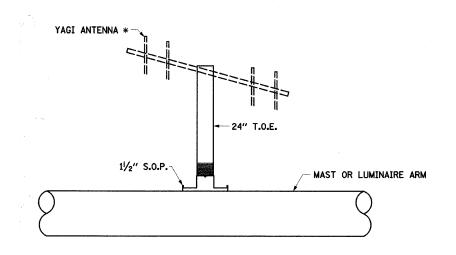


NOTES:

- 1. LUMINAIRE SHALL BE A MODEL AL-32000 LUMINAIRE, ARM END MOUNTED AS MANUFACTURED BY BEACON PRODUCTS OR AN EQUAL APPROVED BY THE CITY OF AURORA.
- 2. ALL CAST ALUMINUM PARTS ARE COPPER FREE ALLOY A356. ALL EXTRUDED ALUMINUM PARTS ARE ALLOY 6051-T6.
- 3. LENS: ACRYLIC PRISMATIC TYPE III ACRYLIC.
- 4. OPTICS: HYDROFORMED FACETED REFLECTOR WITH LIGHT SOURCE: 250 WATT H.P.S., ED-28 LAMP, (BY OTHERS). BALLAST: 250 WATT H.P.S., HPF CORE & COIL.
- 5. VOLTAGE: 240 VOLTS HZ:80.
- 6. FIXTURE SHALL BE NRTL LISTED FOR WET LOCATION.
- FASTNERS: ALL FASTNERS ARE STAINLESS STEEL (TAMPER RESISTANT OPTIONAL, SPANNER HD (SHAKE EYE) SPECIAL TOOL REQUIRED, NOT PROVIDED).
- 8. FINISH: BEACOTE III POLYESTHER POWDER COAT ELECTROSTATICALLY APPLIED AND THERMOCURED. COLOR (SPECIFY).



AL-32000 LUMINAIRE, ARM END MOUNTED



WIRELESS ANTENNA MOUNTING DETAIL

* OR EQUAL APPROVED BY THE CITY OF AURORA.

MISCELLANEOUS DETAILS

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED ~	>				F.A.	SECTION	COUNTY	TOTAL S
\trans\fin_dwg\690_5_det05.dgn		DRAWN BAH	REVISED -	STATE OF ILLINOIS		MISCELLANEOUS DETAILS		NIE.	00070 00 TI	KANE	SHEETS
}	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED	DEPARTMENT OF TRANSPORTATION	1			08-04	00210-00-1L	CONTRACT	L NO C.
	PLOT DATE = 12/17/2009		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	O. ILLINOIS FED. AID		110. 0.		

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	PLOTTED		
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.0N	STRUCTURE NOTATINS CHIKD		-

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. THE POST SHALL HAVE A LUMINAIRE MOUNTING HEIGHT OF 12'-3". THE

BASE SHALL HAVE AN 181/2" DIAMETER.

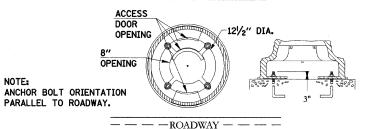
LUMINAIRE MOUNTING: A 3" DIAMETER BY 3" TALL TENON WITH UNDERCUT SHALL BE AN INTEGRAL PART OF THE POLE PROVIDED FOR POST TOP MOUNTING OF LUMINAIRE.

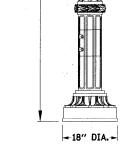
INSTALLATION: (SEE DRAWING FOR DETAILS) THE LIGHTING POLE SHALL BE PROVIDED WITH (4) 3/4" DIAMETER X 24" LONG "L-TYPE" ANCHOR BOLTS. EACH ANCHOR BOLT SHALL BE SUPPLIED ASSEMBLED WITH (2) NUTS, (2) FLAT WASHERS AND (1) SPLIT LOCK WASHER. THE POLE SHALL HAVE A 12" DIAMETER BOLT CIRCLE AND REQUIRES A 3"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

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

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

INSTALLATION DETAIL





12'-3"

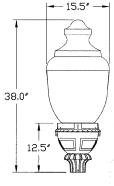
LIGHT POLE, SPECIAL (POLE DETAIL)

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

FEATURES:

- SIX DIFFERENT ACORN GLOBE CONFIGURATIONS.
 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.
- 10. TWIST LOCK PE RECEPTACLE MOUNTED IN DOOR.
- 11. LUMINAIRE SHIPPED AS COMPONENTS: BALLAST, OPTICAL.



GLOBE 1H

LIGHT POLE, SPECIAL (LUMINAIRE DETAIL)

GE PATRIARCH LUMINAIRE (SEE SPECIAL PROVISIONS)

USER NAME = _USER_	DESIGNED -	REVISED -		1					F.A.	SECTION	COUNTY	TOTAL SHEET
	DRAWN BAH	REVISED -	STATE OF ILLINOIS		MISCELL	ANEOUS	DETAILS		KIE.			SHEETS NO.
PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION							00-00210-00-12	KAN	T NO. 63300
PLOT DATE = 12/17/2009	PLOT DATE = 12/17/2009 DATE - REVISED -	`	SCALE:	SHEET NO. OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.		1 10. 83300	
_		DRAWN BAH PLOT SCALE = \$SCALE\$ CHECKED APS	DRAWN BAH REVISED -	DRAWN BAH REVISED - PLOT SCALE = \$SCALE\$ CHECKED APS REVISED - DRAWN BAH REVISED - DEPARTMENT OF TRANSPORTATION	DRAWN BAH REVISED - STATE OF ILLINOIS PLOT SCALE = #SCALE & CHECKED APS REVISED - DEPARTMENT OF TRANSPORTATION	DRAWN BAH REVISED - STATE OF ILLINOIS MISCELL PLOT SCALE = \$SCALE\$ CHECKED APS REVISED - DEPARTMENT OF TRANSPORTATION	DRAWN BAH REVISED - STATE OF ILLINOIS MISCELLANEOUS PLOT SCALE = \$SCALE\$ CHECKED APS REVISED - DEPARTMENT OF TRANSPORTATION	DRAWN BAH REVISED - STATE OF ILLINOIS MISCELLANEOUS DETAILS PLOT SCALE = \$SCALE\$ CHECKED APS REVISED - DEPARTMENT OF TRANSPORTATION	DRAWN BAH REVISED - STATE OF ILLINOIS MISCELLANEOUS DETAILS PLOT SCALE = #SCALE	DRAWN BAH REVISED - STATE OF ILLINOIS MISCELLANEOUS DETAILS PLOT SCALE = *SCALE* CHECKED APS REVISED - DEPARTMENT OF TRANSPORTATION	DRAWN BAH REVISED - STATE OF ILLINOIS PLOT SCALE = *SCALE* OF CHECKED APS REVISED - DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS MISCELLANEOUS DETAILS MISCELLANEOUS DETAILS O8-00270-00-TL	DRAWN BAH REVISED - STATE OF ILLINOIS PLOT SCALE = \$SCALE\$ CHECKED APS REVISED - DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION MISCELLANEOUS DETAILS RTE. SECTION COUNTY 08-00270-00-TL KANE DEPARTMENT OF TRANSPORTATION