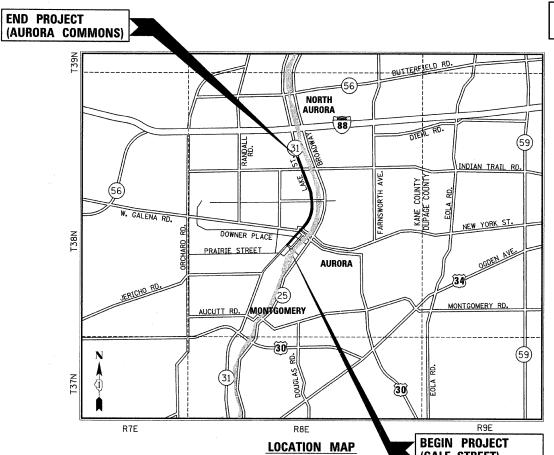
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

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

PROPOSED PLANS FOR TRAFFIC SIGNAL INTERCONNECT

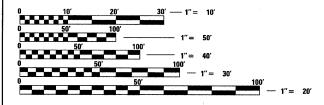
CONGESTION MITIGATION AIR QUALITY FAU ROUTE 3902 / ILLINOIS ROUTE 31 (LAKE STREET) FROM GALE STREET TO NORTH OF INDIAN TRAIL SECTION 05-00258-00-TL **PROJECT NO. CMM-9003 (034)** KANE COUNTY

JOB NO.: C-91-412-08



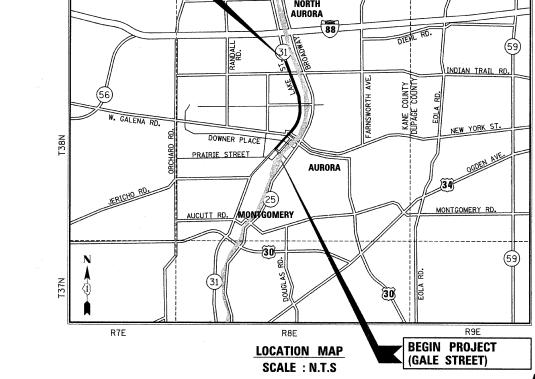
THIS IMPROVEMENT IS LOCATED IN THE CITY OF AURORA

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: 63251



EXISTING ADT (2007) = 24,200POSTED/DESIGN SPEED = 30 - 35 M.P.H.

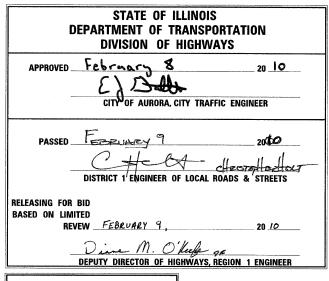
PROJECT GROSS LENGTH = 12,400.00 FEET = 2.35 MILES PROJECT NET LENGTH = 12.400.00 FEET = 2.35 MILES

DESIGN DESIGNATION = PRINCIPAL ARTERIAL

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

SECTION COUNTY 3902 05-00258-00-TL KANE





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



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PROFILE SURVEYED. NOTE BOOK GRADES CHECKED. NATE BOOK GRADES CHECKED. NO. STRUCTURE MOTATINS CHECK.

INDEX OF SHEETS

58-61 MISCELLANEOUS DETAILS

COVER SHEET INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS SUMMARY OF QUANTITIES STANDARD TRAFFIC SIGNAL DESIGN STANDARDS EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - GALE STREET TRAFFIC SIGNAL MODIFICATION PLAN - GALE STREET CABLE PLAN AND PHASE DESIGNATION DIAGRAM - GALE STREET EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - BENTON STREET TRAFFIC SIGNAL MODIFICATION PLAN - BENTON STREET CABLE PLAN AND PHASE DESIGNATION DIAGRAM - BENTON STREET EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - DOWNER PLACE TRAFFIC SIGNAL MODIFICATION PLAN - DOWNER PLACE CABLE PLAN AND PHASE DESIGNATION DIAGRAM - DOWNER PLACE EXISTING TRAFFIC SIGNAL AND MODIFICATION PLAN - GALENA BOULEVARD EXISTING CABLE AND MODIFICATION PLAN / PHASE DESIGNATION DIAGRAM - GALENA BOULEVARD EXISTING TRAFFIC SIGNAL AND MODIFICATION PLAN - NEW YORK STREET EXISTING CABLE AND MODIFICATION PLAN / PHASE DESIGNATION DIAGRAM - NEW YORK STREET EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - WEST PARK AVENUE / ELM STREET TRAFFIC SIGNAL MODIFICATION PLAN - WEST PARK AVENUE / ELM STREET CABLE PLAN AND PHASE DESIGNATION DIAGRAM - WEST PARK AVENUE / ELM STREET MAST ARM MOUNTED STREET NAME SIGNS - WEST PARK AVENUE / ELM STREET TEMPORARY TRAFFIC SIGNAL INSTALLATION AND EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - ILLINOIS AVENUE TEMPORARY TRAFFIC SIGNAL CABLE PLAN AND PHASE DESIGNATION DIAGRAM - ILLINOIS AVENUE TRAFFIC SIGNAL MODERNIZATION PLAN - ILLINOIS AVENUE CABLE PLAN AND PHASE DESIGNATION DIAGRAM - ILLINOIS AVENUE MAST ARM MOUNTED STREET NAME SIGNS - ILLINOIS AVENUE EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - NORTHGATE MALL SOUTH ENTRANCE TRAFFIC SIGNAL MODIFICATION PLAN - NORTHGATE MALL SOUTH ENTRANCE CABLE PLAN AND PHASE DESIGNATION DIAGRAM - NORTHGATE MALL SOUTH ENTRANCE EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - NORTHGATE MALL NORTH ENTRANCE TRAFFIC SIGNAL MODIFICATION PLAN - NORTHGATE MALL NORTH ENTRANCE CABLE PLAN AND PHASE DESIGNATION DIAGRAM - NORTHGATE MALL NORTH ENTRANCE EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - LYON PLACE TRAFFIC SIGNAL MODIFICATION PLAN - LYON PLACE CABLE PLAN AND PHASE DESIGNATION DIAGRAM - LYON PLACE EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - INDIAN TRAIL 44-45 TRAFFIC SIGNAL MODIFICATION PLAN - INDIAN TRAIL CABLE PLAN AND PHASE DESIGNATION DIAGRAM - INDIAN TRAIL EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - AURORA COMMONS ENTRANCE TRAFFIC SIGNAL MODIFICATION PLAN - AURORA COMMONS ENTRANCE CABLE PLAN AND PHASE DESIGNATION DIAGRAM - AURORA COMMONS ENTRANCE 50-54 INTERCONNECT PLAN 55-56 INTERCONNECT SCHEMATIC TRAFFIC CONTROL AND PROTECTION DETAIL

LIST OF HIGHWAY STANDARDS

886001-01 DETECTOR LOOP INSTALLATIONS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
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
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

HOT-MIX ASPHALT - MIX	SELECTION	
MIXTURE TYPE	AIR VOIDS	LIFT THICKNESS
CLASS D PATCHING (HMA BINDER IL-19 mm)	4% @ 70 GYR.	2-1/4" MIN.

NOTES

- 1. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
- 2. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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\Trans\fin_dwg\69Ø_2_index.dgn		DRAWN JMR	REVISED -	STATE OF ILLINOIS	INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS	3902 05-00258-00-TL	KANE	61 2
	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION		00 00200 00 1/2	CONTRACT NO	0. 632
	PLOT DATE = 3/11/2010	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FE	D. AID PROJECT	,, <u> </u>

SUMMARY OF QUANTITIES

	T								Y031-F						
CODE NUMBER PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	GALE STREET	BENTON STREET	DOWNER PLACE	GALENA BOULEVARD	NEW YORK STREET	WEST PARK AVENUE	ILLINOIS AVENUE	NORTHGATE SOUTH	NORTHGATE NORTH	LYON PLACE	INDIAN TRAIL	AURORA COMMONS	INTERCONNECT
42400800 DETECTABLE WARNINGS	SQ FT	219	16	SINCE	FLACE	BOOLEVARD	SIREET						INAIL	COMMONS	
44000500 COMBINATION CURB AND GUTTER REMOVAL	FOOT		10			***************************************		32	98	17	14	42			
44002800 ISLAND PAVEMENT REMOVAL		10										10			
	SQYD	46							46						
44201789 CLASS D PATCHES, TYPE II, 12 INCH	SQYD	24							24						
44201794 CLASS D PATCHES, TYPE III, 12 INCH	SQYD	22							22						
60603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	10										10			
67000500 ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6													
67100100 MOBILIZATION	L SUM	1													
70102630 TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1			-										
70102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1													
70102640 TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1													
72000100 SIGN PANEL - TYPE 1	SQ FT	118.1		27.2	14.0			25.5	51.4						
78000500 THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	92							92						
78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	4183	427	324	408			456	850	270	146	281	925	96	
78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1247	105	86	86			109	224	105	99	117	218	98	
78300100 PAVEMENT MARKING REMOVAL	SQ FT	4295	364	330	376			448	969	274	220	263	868	183	
81000600 CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	785	33	217	177			18	130						210
81000700 CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	522		126	129			107	63	31	10	21	18	17	
81001000 CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	296	56		51			65	124						
81018500 CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	644		120	218				221						85
81018600 CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	30		30											00
81018900 CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1150		184	215			400	553						
81400100 HANDHOLE								198	553						
	EACH	7	11	3	2			1							
	EACH	4			11			1	2						
81900200 TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1570	128	404	344			163	224	31	10	21	18	17	210
85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	11	1	1	1	1	1	1	5 m	1	1	1	1	1	
85700205 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	4	1		1			1	1						
85700500 FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	6		1						11	1	1	1	1	
85900100 TRANSCEIVER	EACH	12					*****								12
87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	9302.5	1210	854	1011			1008	2274	373.5	163	522.5	1494	392.5	
87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	14218.5	1576.5	1525.5	1857		146.5	1317.5	2998.5	638.5	388	1012.5	1871	887	
87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	8941	1407	654.5	1154.5			1240	2035	631	530	535		754	
87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5468.5	689					618	3096	315.5	132	267.5	55	295.5	
87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	8936	202	1026	682			807	2380	690.5		697.5	1699	752	
87301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	1131.5	19.5	84	174			35.5	147.5	138	174	94.5	86.5	178	
87502440 TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	5		2	2							1			
87502480 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	5		2	2			1	1						
87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	7						2	2	1	1		1		
87502520 TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	6								1	1	2		2	
87700150 STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2						2							
87700180 STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1						1							
87700200 STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1					-	1	,						
87700220 STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1							1						
87700240 STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1							1						
87700270 STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1							1						
87700310 STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1					***************************************		1						
87704980 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT. (SPECIAL)	EACH	1		1											
87704090 STEEL COMBINATION WAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH				1										
87704120 STEEL COMBINATION WAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)		1													
VITATION VITALE COMMINSTROM MACHINELL AND POLE 30 FT. (OPENIAL)	EACH	2		1 1	1 1			L	1		L	<u> </u>	L	1	1

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET NO. OF SHEETS STA. TO

SCALE:

SUMMARY OF QUANTITIES

CODE PAY ITEM DESCRIPTION	UNIT	TOTAL	GALE	BENTON	DOWNER	GALENA	NEW YORK	WEST PARK	Y031-F ILLINOIS	NORTHGATE	NORTHGATE	LYON	INDIAN	AURORA	T
NUMBER FAI HEW DESCRIPTION		QUANTITY	STREET	STREET	PLACE	BOULEVARD	STREET	AVENUE	AVENUE	SOUTH	NORTH	PLACE	TRAIL	COMMONS	INTERCONNECT
87800100 CONCRETE FOUNDATION, TYPE A	FOOT	88		16	16			12	8	8	8	8	4	8	
87800150 CONCRETE FOUNDATION, TYPE C	FOOT	16	4		4			4	4						
87800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	57						43.5	13.5						
87800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	85		22	22				- 41						
87900200 DRILL EXISTING HANDHOLE	EACH	49	6	8	7			6	9	2	2	3	1	2	3
88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	39	6	4	4			6	6	2	3	2	4	2	
88030050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	14	2	2	2			2		2	2	2			
88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	9	2					2	1				4		
88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	21	2					2	6	2	1	2	4	2	
88030210 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2							7 44					2	
88030220 SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2							2						
88030240 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2							2						
88030310 SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1						· · · · · · · · · · · · · · · · · · ·			1		~~~		
88030330 SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	7							5-	2	1	2	·	2	
88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	15	4		2			1	1	2	2	2		2	
88102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	22	2	4	3			4	3	1		1	4		
88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	60	8	4	4			8	12	4	4	4	8	4	
88500100 INDUCTIVE LOOP DETECTOR	EACH	26	2	4	2			2	6	2		2	4	2	
88600100 DETECTOR LOOP, TYPE I	FOOT	1046.6	250.2	332.9	63.5			-	400				· · · · · · · · · · · · · · · · · · ·		
88700200 LIGHT DETECTOR	EACH	22	2	2	2			2	2	2	2	3	2	3	
88700300 LIGHT DETECTOR AMPLIFIER	EACH	10	1	1	1			1	.1	1	1	1	1	1	
88800100 PEDESTRIAN PUSH-BUTTON	EACH	62	8	8	8			8	10	4	2	4	8	2	
89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1							1			· · · · · · · · · · · · · · · · · · ·			
89502300 REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	39882.5	3182.5	1216	2264			4479.5	6853.5	1359.5	1197	1409.5	2402.5	818	14700.5
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	10	1	1	1			1	1	1	1	1	1	1	
89502380 REMOVE EXISTING HANDHOLE	EACH	10	·	1	2			3	4	1					
89502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	41	1	6	6			9	11	2	2	2		2	
X0322925 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	14493												ļ	14493
X0324007 OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1													1
X0324232 PAINT NEW MAST ARM POLE, UNDER 40 FEET	EACH	6						4	2						
X0324256 FIBER OPTIC CABLE SPLICE	EACH	1													1
X0325141 PAINT NEW MAST ARM POLE, 40 FEET AND OVER	EACH	2							2						
X0325737 TEMPORARY TRAFFIC SIGNAL TIMING	EACH														
X0326269 PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER		1							1						
	EACH	1							1						
X4402815 ISLAND PAVEMENT REMOVAL AND REPLACEMENT	SQ FT	623					-		623						
X8050015 SERVICE INSTALLATION - POLE MOUNTED	EACH	10	1	1	1			1	1	1	1	1	1	1	
X8510300 PAINT TRAFFIC SIGNAL POST	EACH	23		4	4			3	4	2	2	2		2	
X8620020 UNINTERRUPTABLE POWER SUPPLY	EACH	10	1	1	1			1	1	1	1	1	1	1	
X8710020 FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	14493		*											14493
X8730027 ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	5786	492	452.5	586.5			455	781.5	607.5	493.5	530	734	653.5	
X8730250 ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TW/ISTED, SHIELDED	FOOT	3889	314.5	394	414.5		146.5	253.5	654.5	237	211	462	321	480.5	
박수이식(eco SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	1129	50					173	225	80	61	540			
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	FOOT	521		138.5			146.5		236						
XX005937 L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4		2	2										
XXD06923 GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	54	5	2	2			3	3	9	7	6	8	9	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EACH	3		1			1		1						***************************************
XX007952 TERMINAL SERVER	EACH	1													1
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EACH	1													1
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	LSUM	1													1
20076600 TRAINEES	HOUR	500							1.19						
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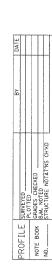
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SUMMARY OF QUANTITIES

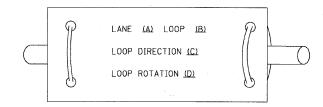
SHEET NO. OF SHEETS STA. TO STA.



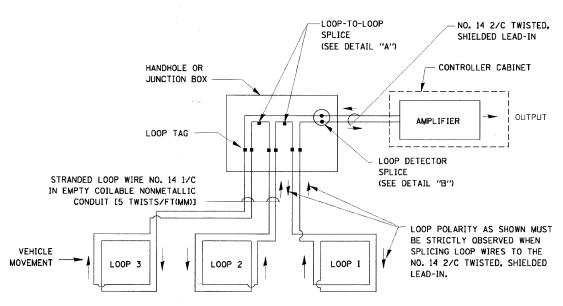
LOOP DETECTOR NOTES

- 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

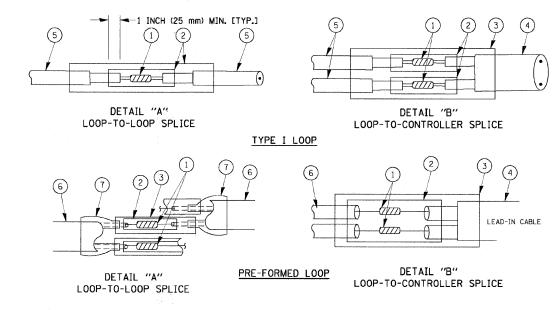


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

- $\hfill \hfill \hfill$
- 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.

SCALE:

- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- The state of the s

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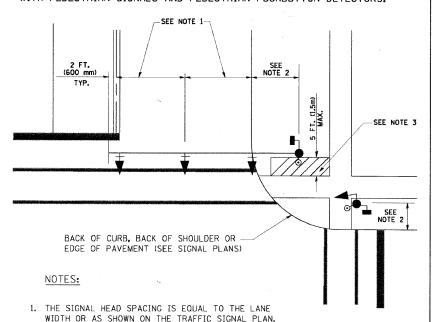
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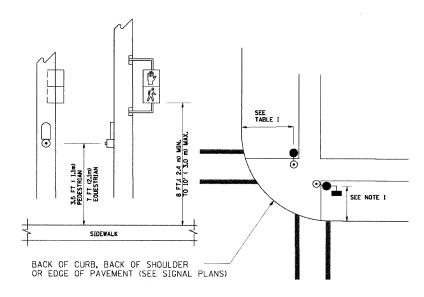
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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 MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS 1.5 FT. (0.45 m) MAX. 1.5 FT. (1.5 m) MAX. LEGEND DOWNWARD SLOPE PEDESTRIAN PUSHBUTTON PEDESTRIAN PUSHBUTTON PEDESTRIAN PUSHBUTTON

- 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 HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 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.

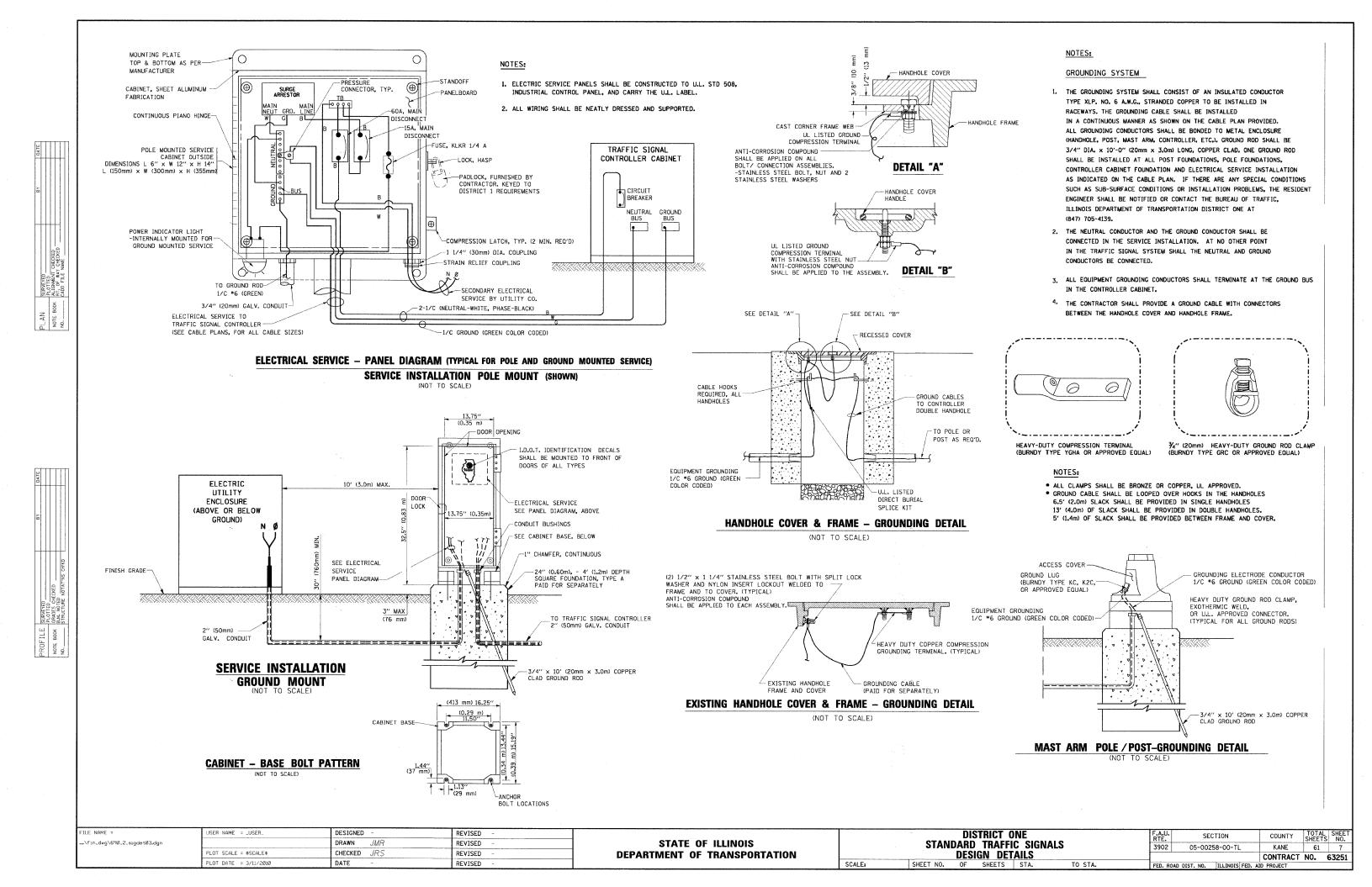
TRAFFIC SIGNAL EQUIPMENT OFFSET

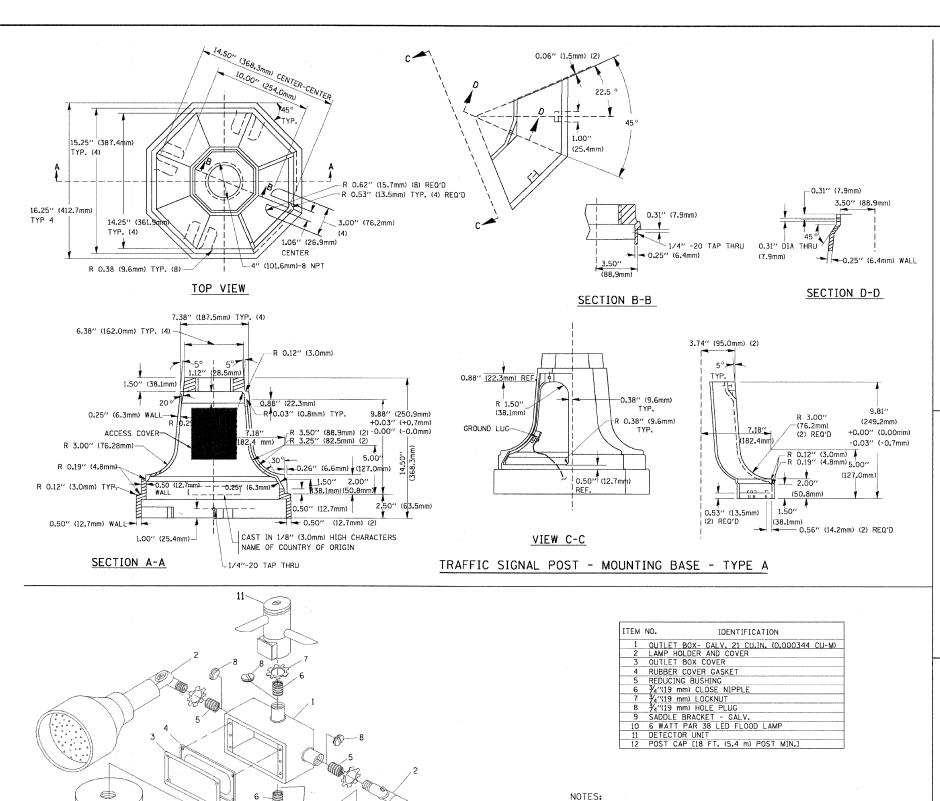
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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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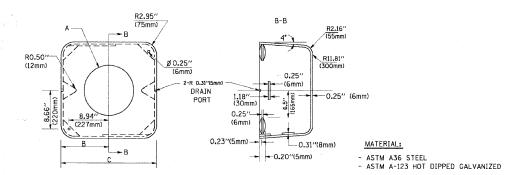


12

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

POST CAP MOUNT

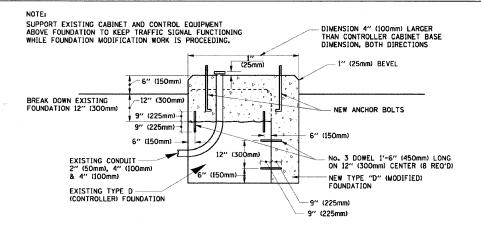


A	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

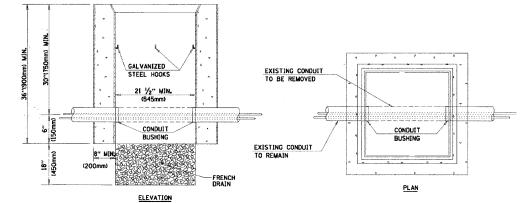
SHROUD

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



NOTES:

- 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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AND TAPPING A $\frac{3}{4}$ "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER

BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR

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

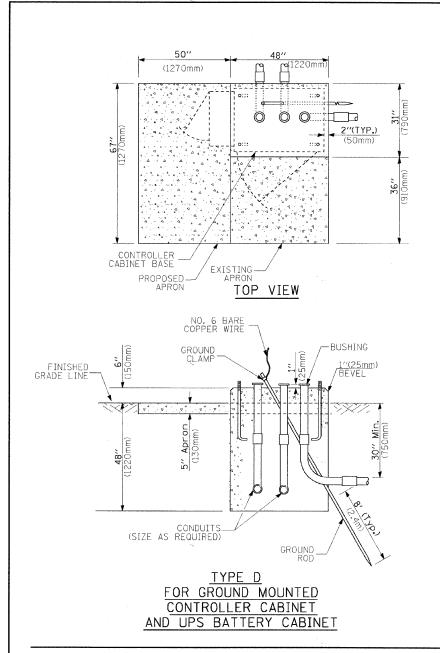
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT

ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT

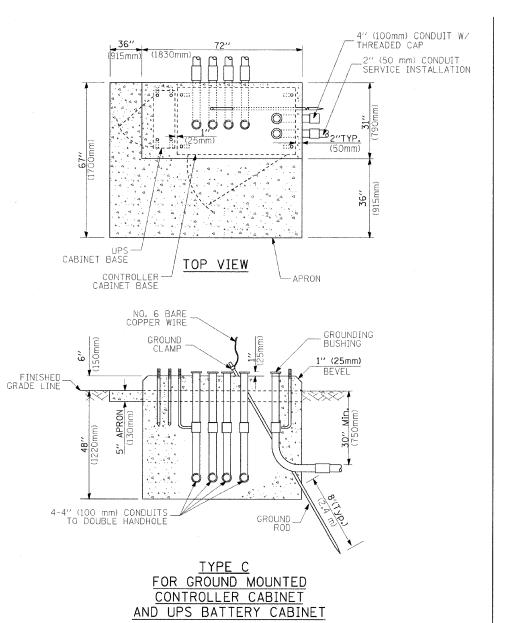
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT

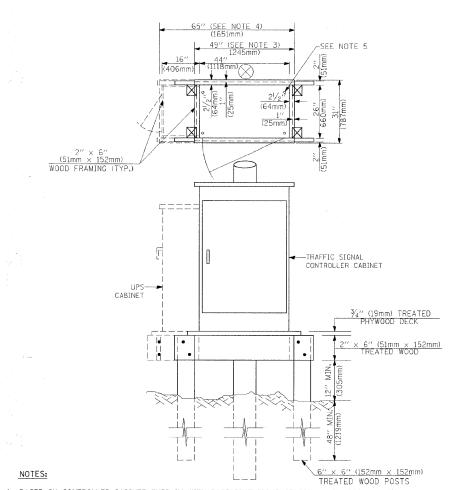
SHALL BE REQUIRED ON EACH CAP.

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- 1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" \times 44" (660mm \times 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 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)

- These foundation depths are for sites which have cohesive soils (clayey slit, 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 most 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.

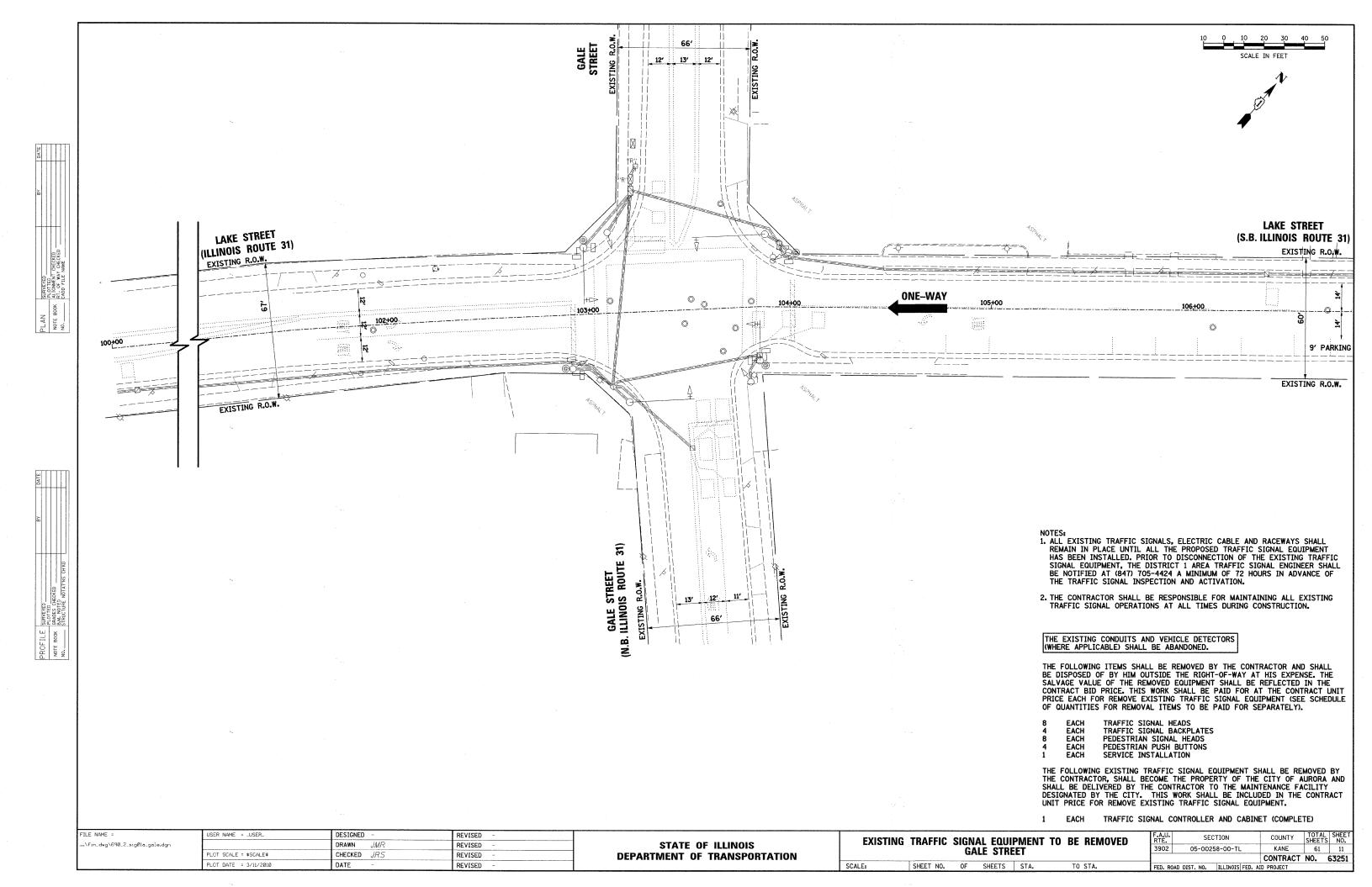
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

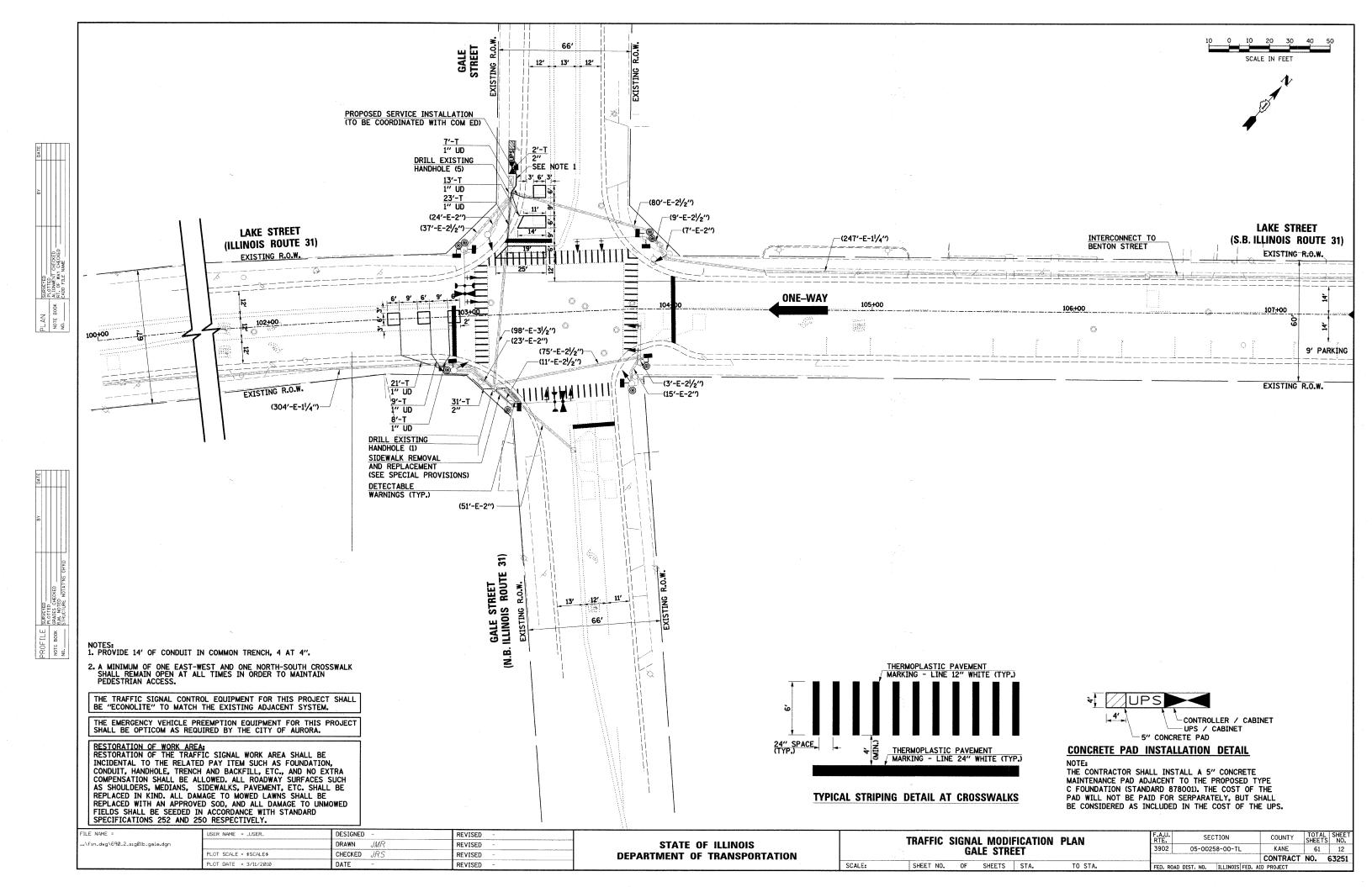
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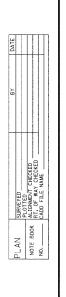
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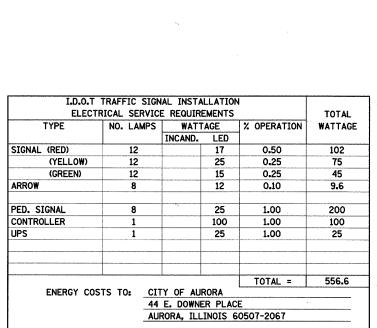
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<u>TEM</u>	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	\bowtie R		\blacksquare	EMERGENCY VEHICLE LIGHT DETECTOR	R≪	\bowtie	-4	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
AILROAD CONTROL CABINET		R R	R- C	CONFIRMATION BEACON	R_{o-0}	0-0	-4	The state of the s		,	
OMMUNICATIONS CABINET	CC R	ECC	CC	HANDHOLE	R 🖂			COAXIAL CABLE		- Ø	- c-
ASTER CONTROLLER		EMC	MC	HANDHOLE	_		N			-/	
ASTER MASTER CONTROLLER	р	EMMC	MMC	HEAVY DUTY HANDHOLE	KH	H	H	VENDOR CABLE FOR CAMERA		_ V	
NINTERRUPTIBLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	R 🖾			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		-(6)	
ERVICE INSTALLATION, P) POLE OR (G) GROUND MOUNT	- <u>-</u> R	- <u></u> -	- ■ P	JUNCTION BOX GALVANIZED STEEL CONDUIT	R	<u> </u>	•	FIBER OPTIC CABLE NO. 62.5/125, MM12F		-J2F-	_
ELEPHONE CONNECTION P) POLE OR (G) GROUND MOUNT	R	P	P	IN TRENCH (T) OR PUSHED (P)		Facility continued to delical actions and action and the continued to delical actions.		FIBER OPTIC CABLE		(24F)	(24F)
FEEL MAST ARM ASSEMBLY AND POLE	R.	0	•	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		APPROXIMENTAL PROPERTY APPROXIMENT APPROXI	NO. 62.5/125, MM12F SM12F		-241	
.UMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			ст	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		\prec	
TEEL COMBINATION MAST ARM	R	O. ×	• ~	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS)		>	
SSEMBLY AND POLE WITH LUMINAIRE	"Ò-X	O-X	•	SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER,		c _{il} l—	C.ii
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH PTZ CAMERA	PTZ[]	Pîzh	PTZ	INTERSECTION ITEM		I	IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		11-0	C _I I →
IGNAL POST	P	0		REMOVE ITEM	R			CONTROLLER CABINET AND	RCF		
EMPORARY WOOD POLE (CLASS 5 OR	'`O R		. •	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED	\boxtimes		
TTER) 45 FOOT (13.7m) MINIMUM	$\overset{R}{\otimes}$	\otimes	•	ABANDON ITEM	А			STEEL MAST ARM POLE AND	RMF		
UY WIRE	R	>	>	12" (300mm) TRAFFIC SIGNAL SECTION		(R)	R	FOUNDATION TO BE REMOVED	<u> </u>		
IGNAL HEAD	R - >	\rightarrow				R		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
IGNAL HEAD CONSTRUCTION STAGES NUMBERS INDICATE THE CONSTRUCTION STAGE)			2	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
IGNAL HEAD WITH BACKPLATE	+DR	+⇔	+-			R	R	FOUNDATION TO BE REMOVED	Out		
GNAL HEAD OPTICALLY PROGRAMMED	R → "P"	-(>"p"	> "P"	SIGNAL FACE		Y Y	Y	SIGNAL POST AND FOUNDATION	RMF		
ASHER INSTALLATION	> r	·		STONAL FACE		•	← Y	TO BE REMOVED	0		
DENOTES SOLAR POWER)	O-Ď"F"	O+>″F″	• - "F"			4 0	∢ G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
EDESTRIAN SIGNAL HEAD	₽ []	-[]				R	R	SAMPLING (SYSTEM) DETECTOR		[5]	S
EDESTRIAN PUSHBUTTON DETECTOR	R .	(a)	®	SIGNAL FACE WITH BACKPLATE.			Y	C que		E array report	
	D			"P" INDICATES PROGRAMMED HEAD		47	G 4 Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETE	CTOR	P	
CESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	aps 🏐 aps	⊚aps	APS			G (*)	◆ G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		9	
LUMINATED SIGN	R			·		"Р"	''P''	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETE	CTOR	[PP]	
IO LEFT TURN!"	9	9	9	12" (300mm) PEDESTRIAN SIGNAL HEAD		(SW)		PREFORMED INTERSECTION AND SAMPLING		PIS	PIS
LUMINATED SIGN IO RIGHT TURN''	R B	0	®	WALK/DON'T WALK SYMBOL				(SYSTEM) DETECTOR			
				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		[PS]	PS
TECTOR LOOP, TYPE I				12" (300mm) PEDESTRIAN SIGNAL HEAD			·				
REFORMED DETECTOR LOOP		P	Р	INTERNATIONAL SYMBOL, SOLID		()	*	RAILROAD	SYMB(DLS	
CROWAVE VEHICLE SENSOR	R MD	Mþ	(<u>M</u>)	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		© C S D	C AD			EXISTING	PROPOSED
DEO DETECTION CAMERA	R [√]þ	Tŷp	 ◯	PADIO INTERCONNECT	ii . R	II o		RAILROAD CONTROL CABINET		B ≥ B	R ■ R
DEO DETECTION ZONE				RADIO INTERCONNECT	## * 0	##+0					
* 	D	====	!!!!!!	RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	2	XOX X	XXXX
N, TILT, ZOOM CAMERA	PED .	PIZI	PZ)	DENOTES NUMBER OF CONDUCTORS, ELECTRIC		\prec		FLASHING SIGNAL		\times	X ⊕ X
RELESS DETECTOR SENSOR	RW	(W)	W	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE		X0X-	X 0 X -
RELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		(1)	(1)	CROSSBUCK		≥ €	*
Tues			Τ	<u> </u>						***************************************	
= USER NAME = _USER.		GNED - IN <i>JMR</i>	REVISED REVISED	- STA	TE OF ILLIN	ois		DISTRICT ONE STANDARD TRAFFIC SIGNALS		RTE. SECT. 3902 05-00258	Jane 1
PLOT SCALE = \$SCALE\$	CHEC	KED JRS	REVISED REVISED	DEPARTMENT				DESIGN DETAILS		3902 05-00258	-00-TL KANE CONTRACT NO









MARK SCHERIBEL

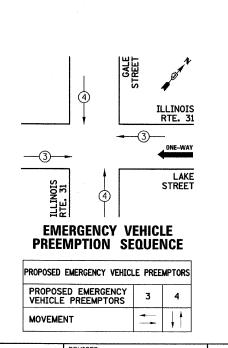
(630) 723-2128

COMMONWEALTH EDISON

ENERGY SUPPLY CONTACT:

PHONE:

COMPANY:



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(3)-

EXISTING INTERSECTION
AND PROPOSED SAMPLING
(SYSTEM) DETECTOR

LAKE STREET

(ILLINOIS ROUTE 31)

3-548

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(3) NO.20

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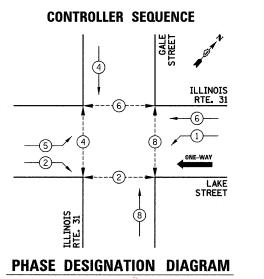
2-1-1

7-4-0

3 4

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(3)



GALE STREET

(5)

No. 6-10-----

GALE STREET (N.B. ILLINOIS ROUTE 31)

(5)

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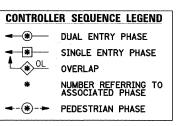
10 × 0 × 20 - 7)

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

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT

SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

SCHEDULE OF QUANTITIES

THERMOPLASTIC PAVEMENT MARKING - LINE 12"

THERMOPLASTIC PAVEMENT MARKING - LINE 24"

CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL

CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL

TRENCH AND BACKFILL FOR ELECTRICAL WORK

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C

ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR

ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C

CONCRETE FOUNDATION TYPE C

DRILL EXISTING HANDHOLE

INDUCTIVE LOOP DETECTOR

DETECTOR LOOP, TYPE I

LIGHT DETECTOR AMPLIEIER

PEDESTRIAN PUSH-BUTTON

REMOVE ELECTRIC CABLE FROM CONDUIT

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C

GROUND EXISTING HANDHOLE FRAME AND COVER

ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

REMOVE EXISTING CONCRETE FOUNDATION

SERVICE INSTALLATION - POLE MOUNTED

SIDEWALK REMOVAL AND REPLACEMENT

UNINTERRUPTABLE POWER SUPPLY

LIGHT DETECTOR

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL

SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED

SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED

SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED

TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM

SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED

PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

STREET

16

427

364

33

128

1210

1576.5

689

202

19.5

250.2

2

3182.5

492

314.5

50

SQ FT

FOOT

FOOT

SQ FT

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SQ FT

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PAY ITEM DESCRIPTION

HANDHOLE

FIBER OPTIC INTERCONNECT BENTON STREET

TRACER CABLE

-24)----

1)-

ONE-WAY

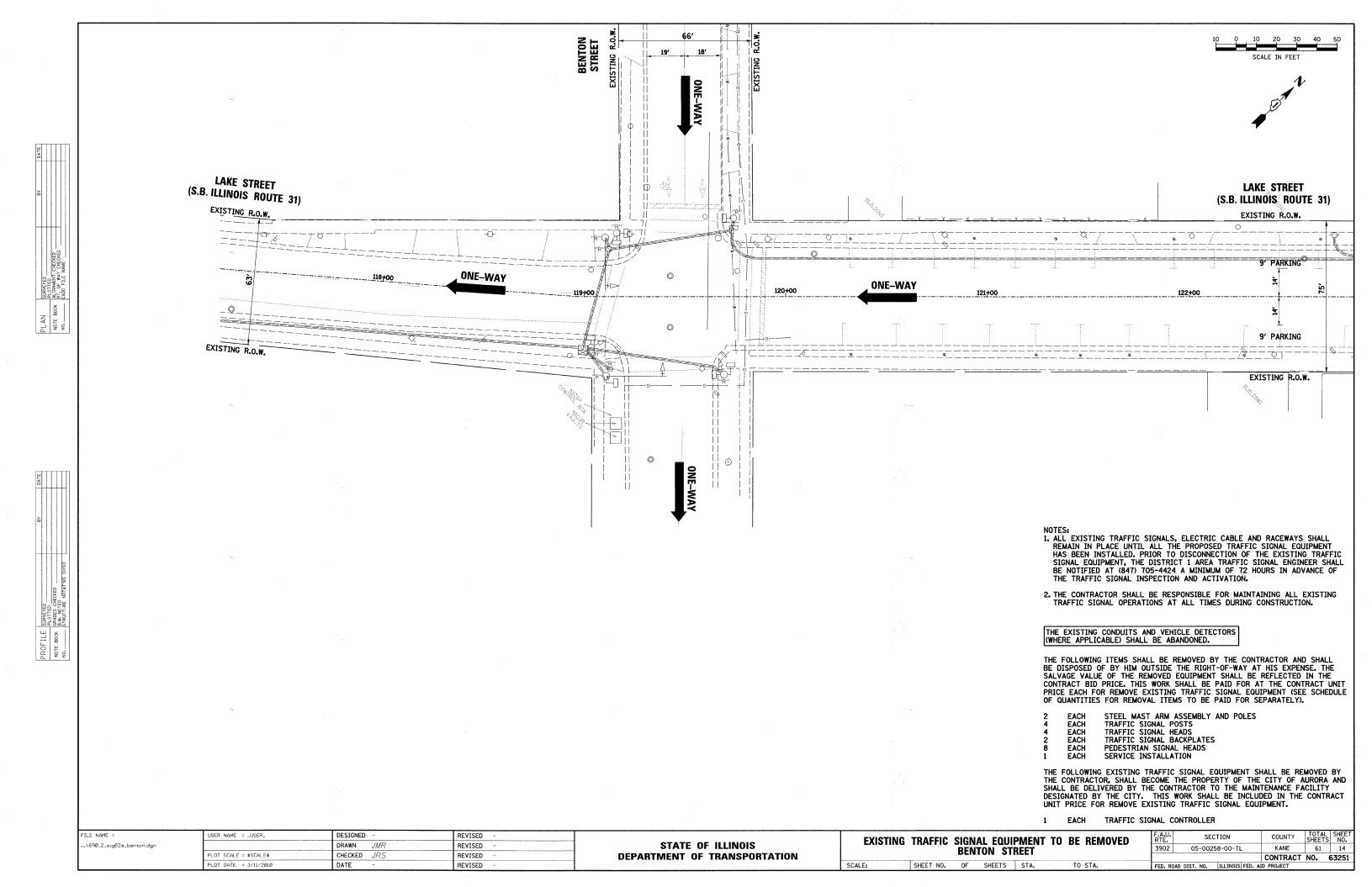
EXISTING INTERSECTION
AND PROPOSED SAMPLING
(SYSTEM) DETECTOR

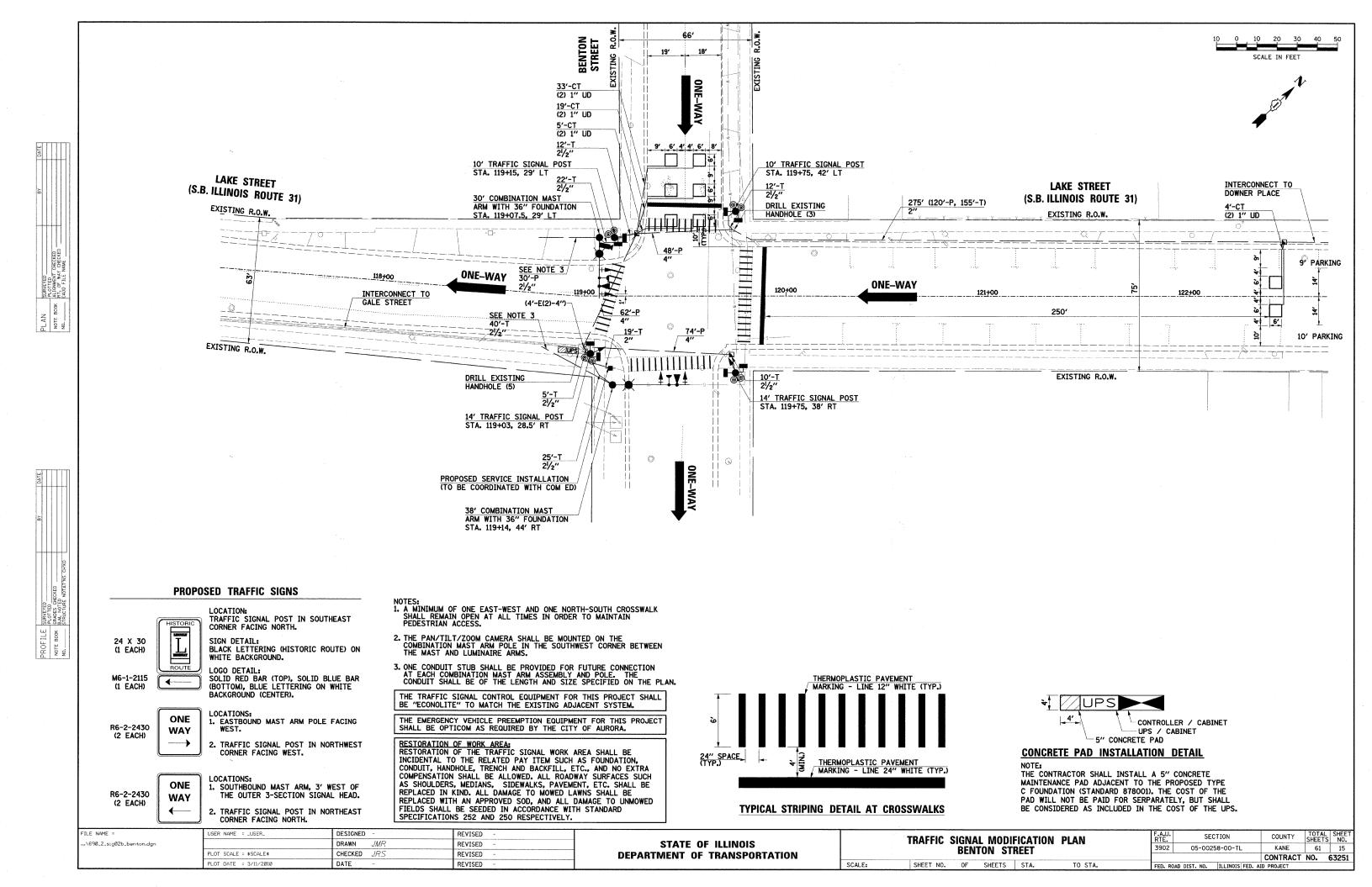
(S.B ILLINOIS ROUTE 31)

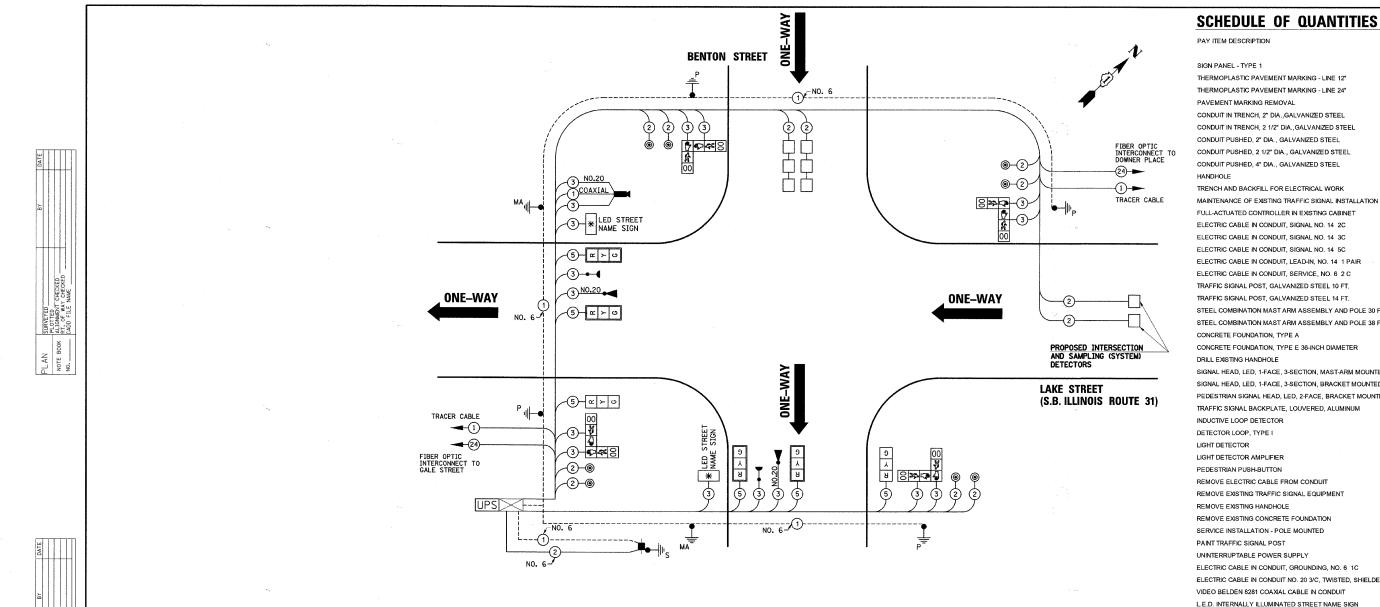
LAKE STREET

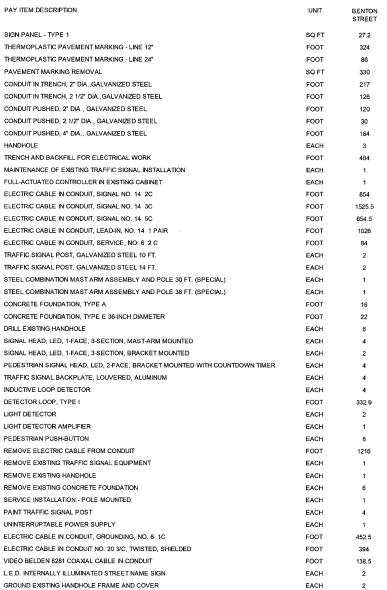
PAVEMENT MARKING REMOVAL

					**											
FILE	E NAME =	USER NAME = _USER_	DESIGNED -	REVISED -			Programme and the second	CABI	LE PI	LAN	AND	F.A.U.	SECTION	COUNTY	TOT/	AL SHE
\f	fin_dwg\690_2_sig0lc_gale.dgn		DRAWN JMR	REVISED -	STATE OF ILLINOIS		PHASE	: DES	IGN/	IOITA	N DIAGRAM	3902	05-00258-00-TL	KANE	SHEE 61	13 110
ŀ	•	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION				ALE S			3302	03 00230 00 12	CONTRAC	T NO	632
		PLOT DATE = 3/11/2010	DATE -	REVISED -		SCALE:	SHEET NO.	0F		ETS	STA. TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED.		71 1102	- 032

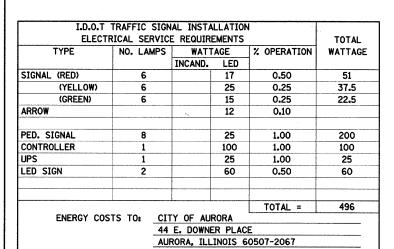








INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA



MARK SCHERIBEL

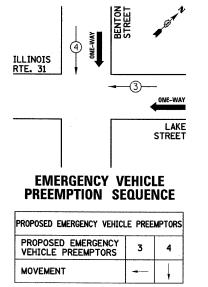
(630) 723-2128

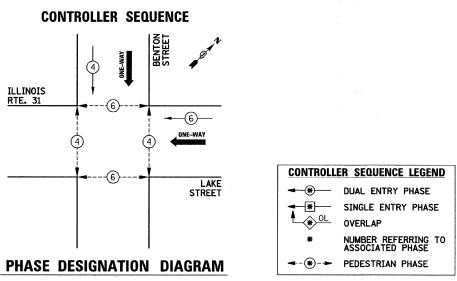
COMMONWEALTH EDISON

ENERGY SUPPLY CONTACT:

PHONE:

COMPANY:



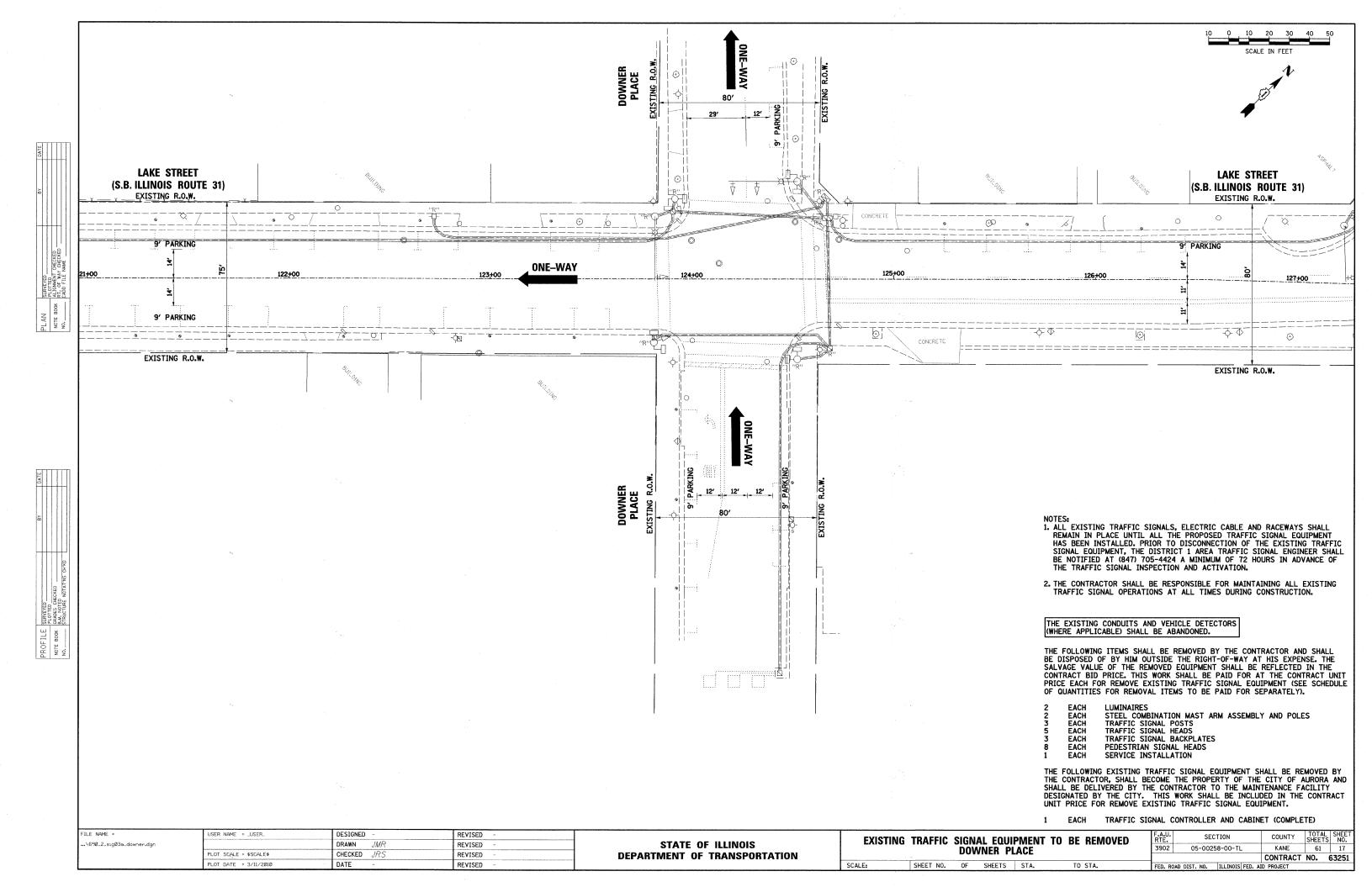


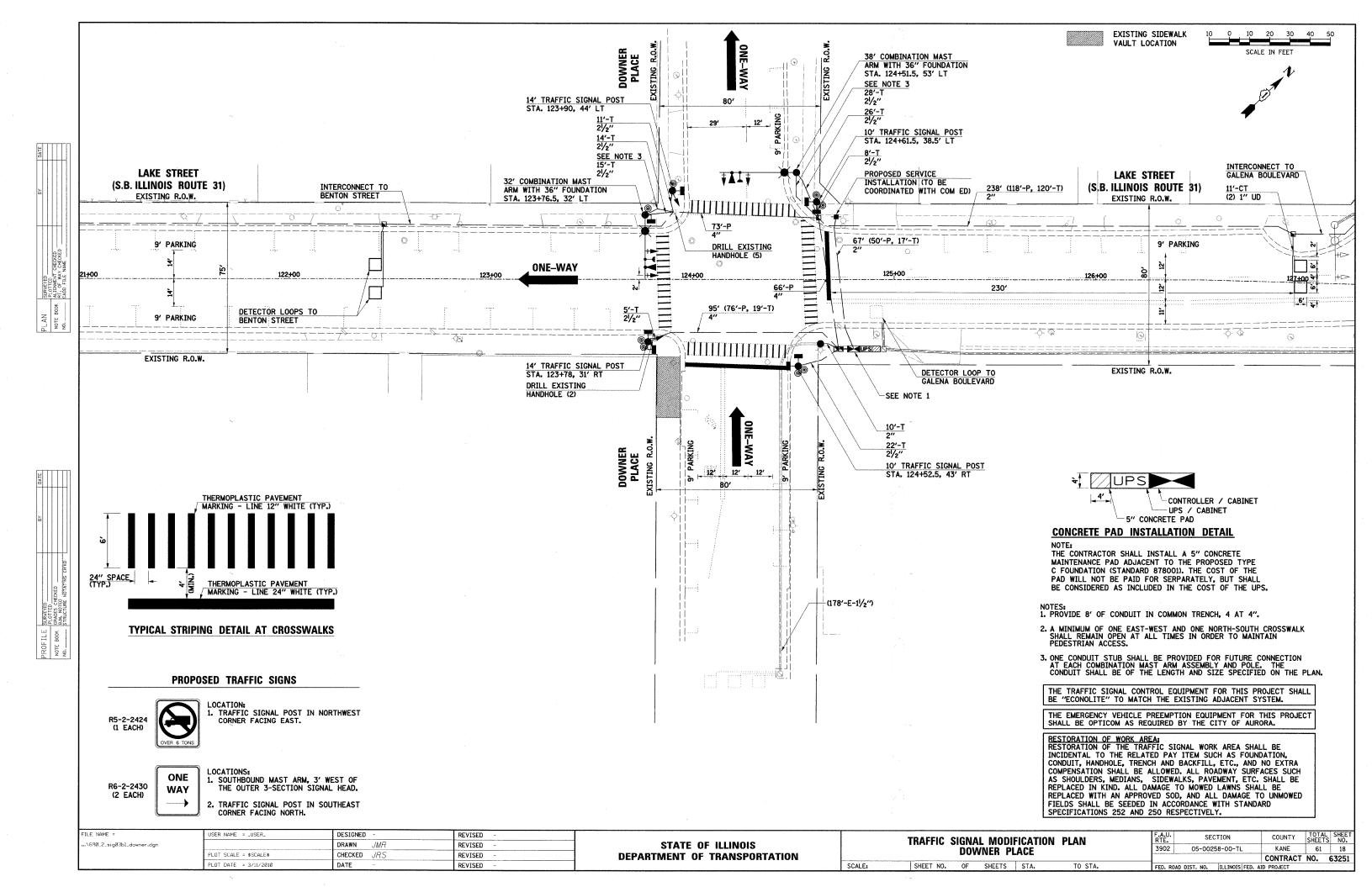
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

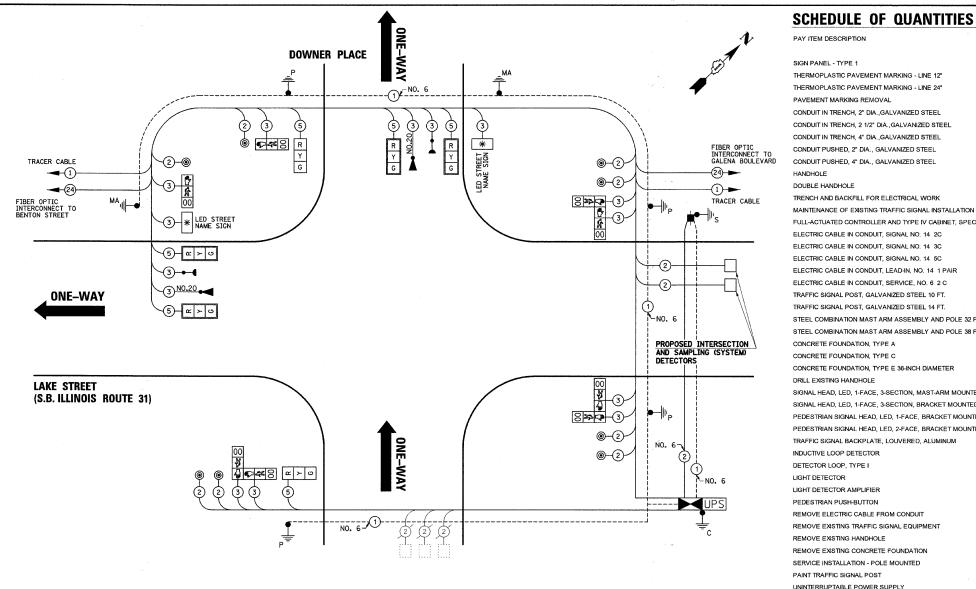
EACH

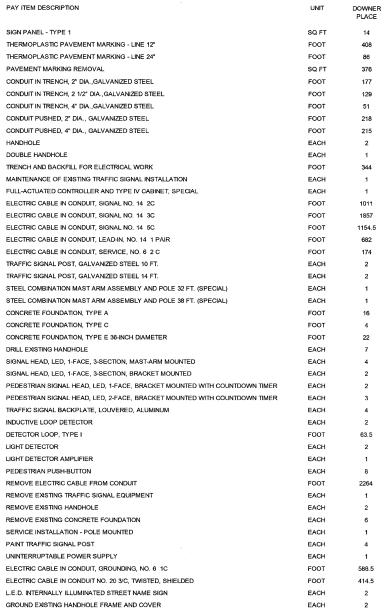
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

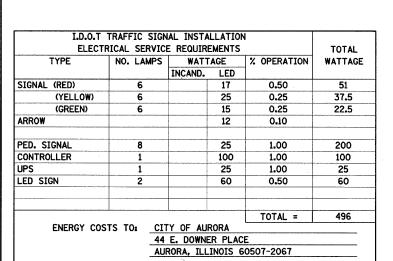
FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -		CABLE PLAN AND	F.A.U. SECTION COUNTY TOTAL SHEET
\690_2_sig02c_benton.dgn		DRAWN JMR	REVISED -	STATE OF ILLINOIS	PHASE DESIGNATION DIAGRAM	RTE. 3ECTION COUNTY SHEETS NO. 3902 05-00258-00-TL KANE 61 16
	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION	BENTON STREET	CONTRACT NO. 63251
	PLOT DATE = 3/11/2010	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT









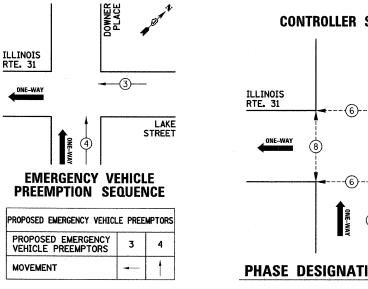


(630) 723-2128

COMMONWEALTH EDISON

ENERGY SUPPLY CONTACT: MARK SCHERIBEL PHONE:

COMPANY:

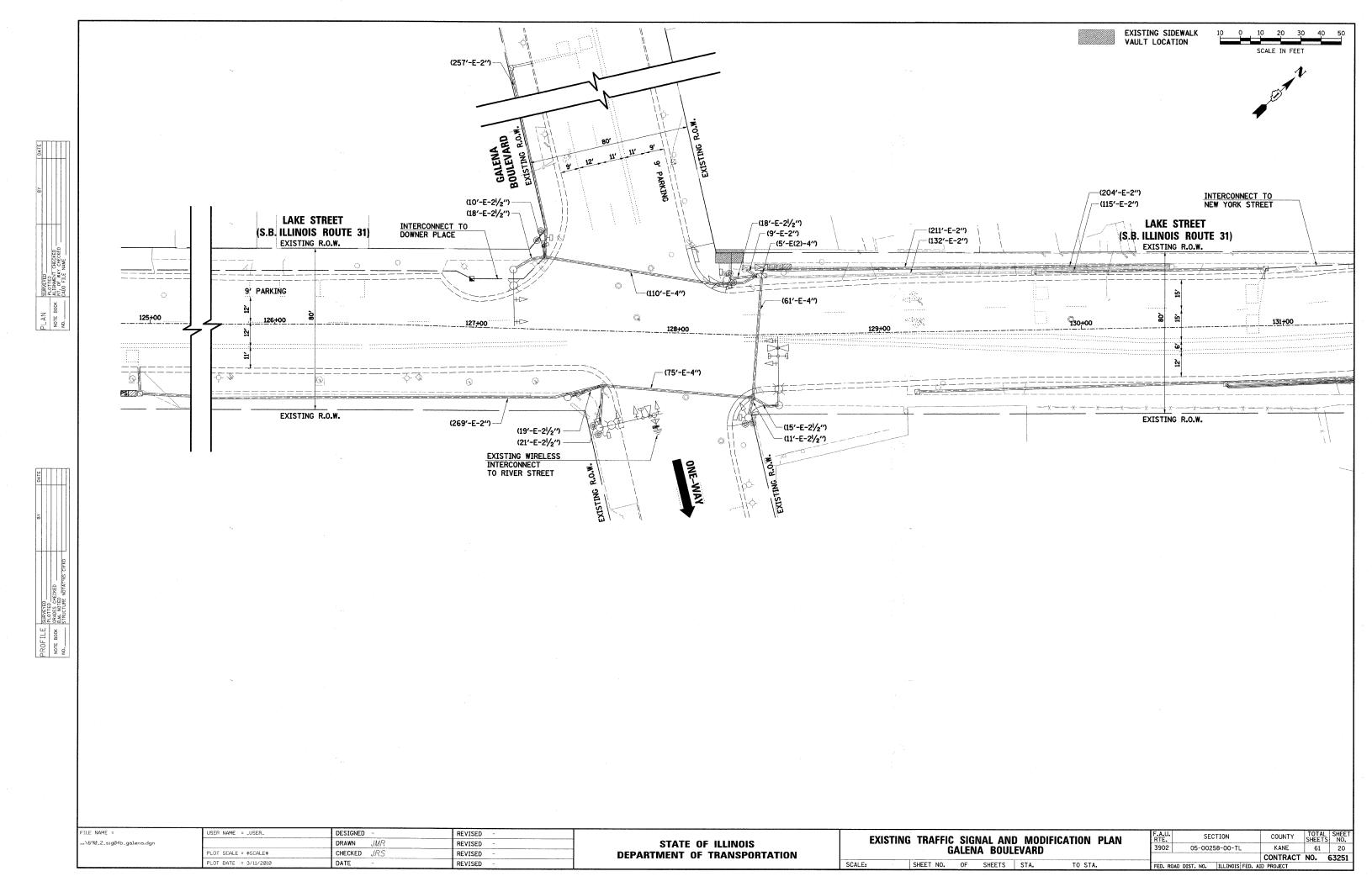


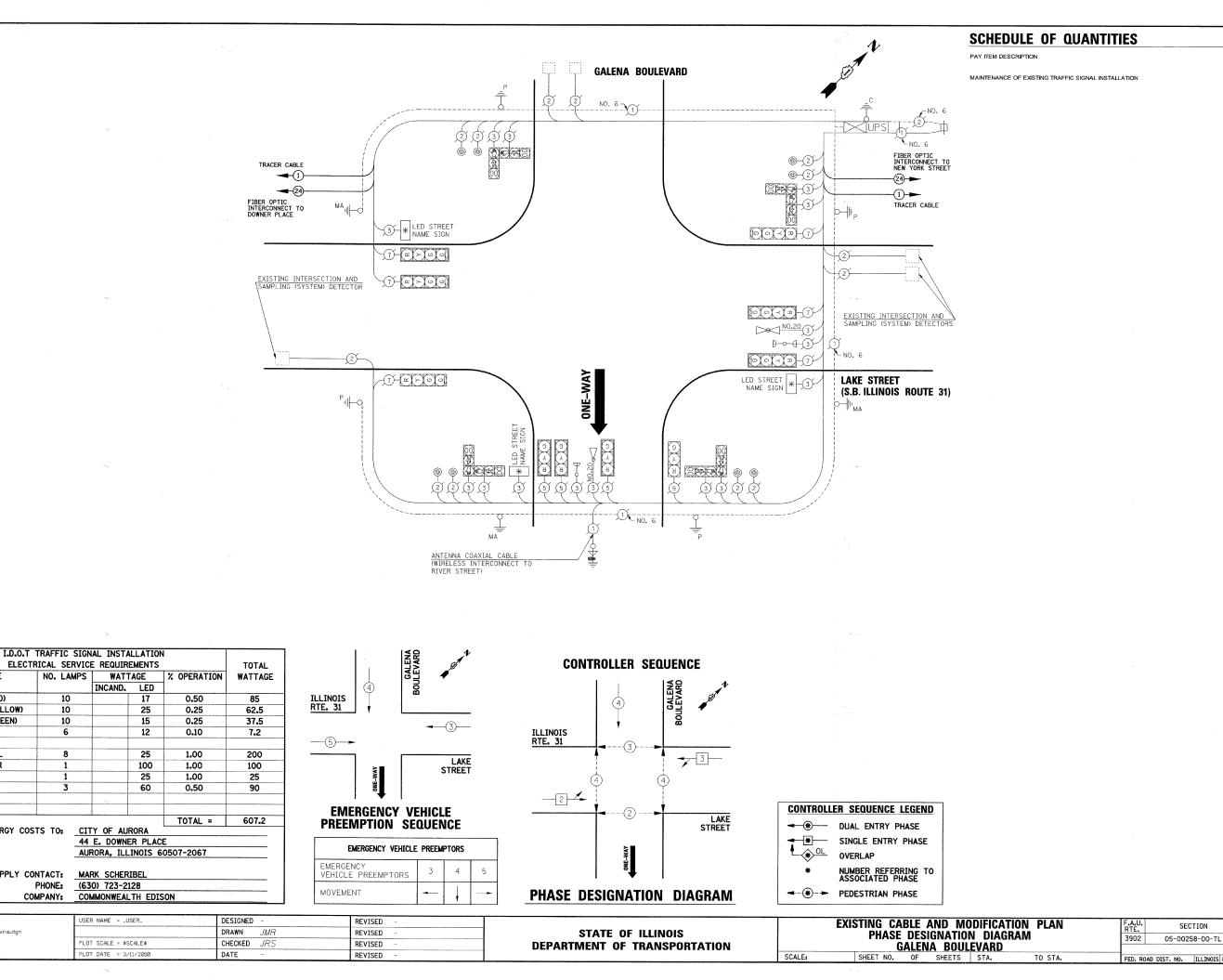
CONTROLLER SEQUENCE	
DOWNER PLACE	
ILLINOIS RTE. 31	
ONE-WAY 8 8	CONTROLLER SEQUENCE LEGEND
STREET 8	DUAL ENTRY PHASE SINGLE ENTRY PHASE OUR OVERLAP * NUMBER REFERRING TO
PHASE DESIGNATION DIAGRAM	ASSOCIATED PHASE →-*- PEDESTRIAN PHASE

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

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -			CABLE PLAN AND	F.A.U.	SECTION	COUNTY TOTAL SHE	
\690_2_sig03c_downer.dgn		DRAWN JMR	REVISED -	STATE OF ILLINOIS		PHASE DESIGNATION DIAGRAM	3902	05-00258-00-TL	KANE 61 19	
	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION		DOWNER PLACE	3302	03 00230 00 12	CONTRACT NO. 6325	
	PLOT DATE = 3/11/2010	DATE ~	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		





COUNTY TOTAL SHEETS NO.

KANE 61 21

CONTRACT NO. 63251

TYPE

(YELLOW)

(GREEN)

SIGNAL (RED)

PED. SIGNAL

CONTROLLER

LED SIGN

FILE NAME =

..\690_2_sig04c_galena.dgn

ARROW

NO. LAMPS

10

10

ENERGY COSTS TO: CITY OF AURORA

(630) 723-2128

JSER NAME = _USER

LOT SCALE = \$SCALE\$

ENERGY SUPPLY CONTACT: MARK SCHERIBEL

PHONE:

WATTAGE

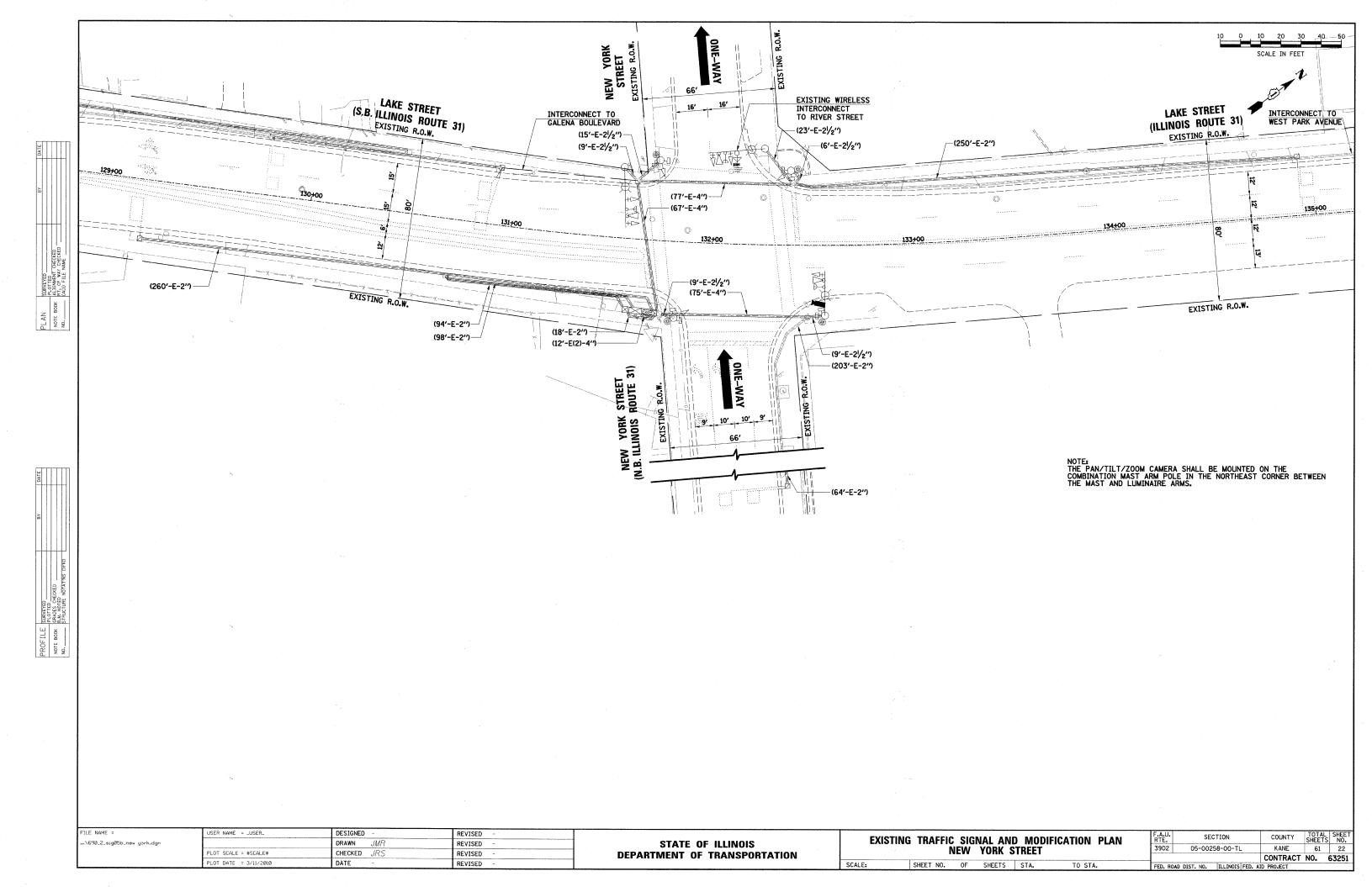
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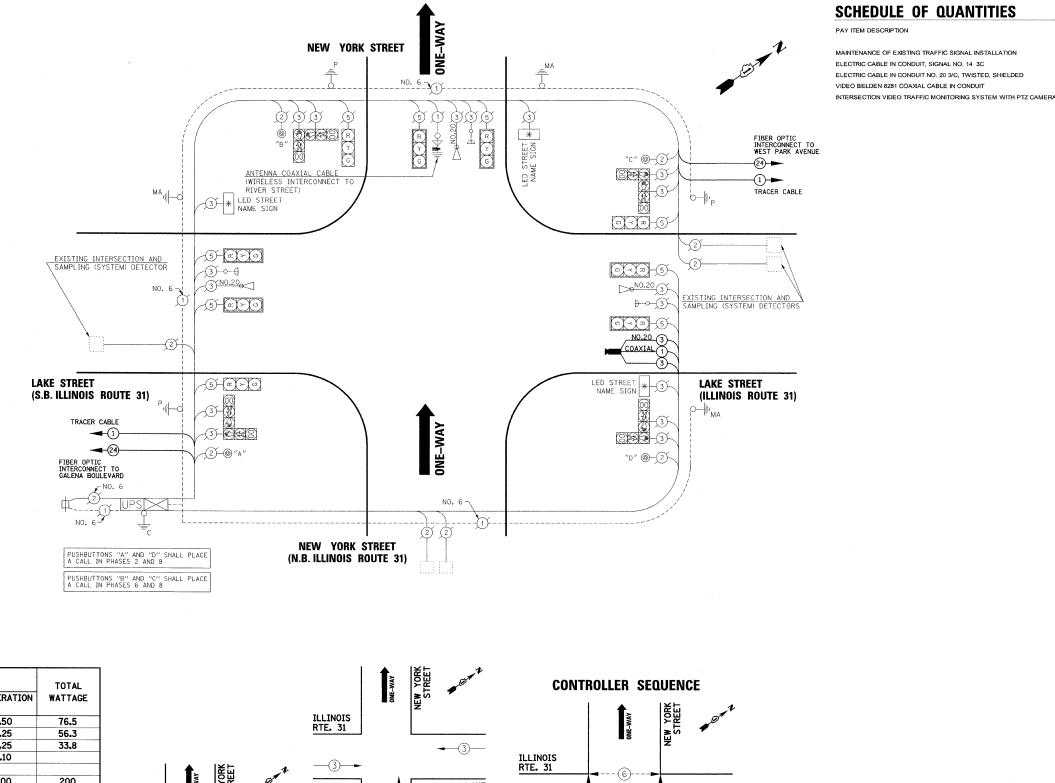
15

12

100

25





FOOT

FOOT

EACH

SECTION

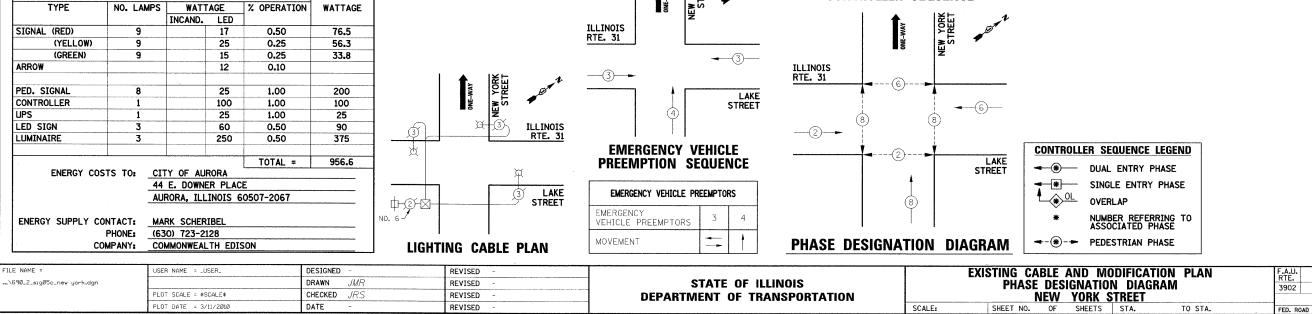
05-00258-00-TL

KANE

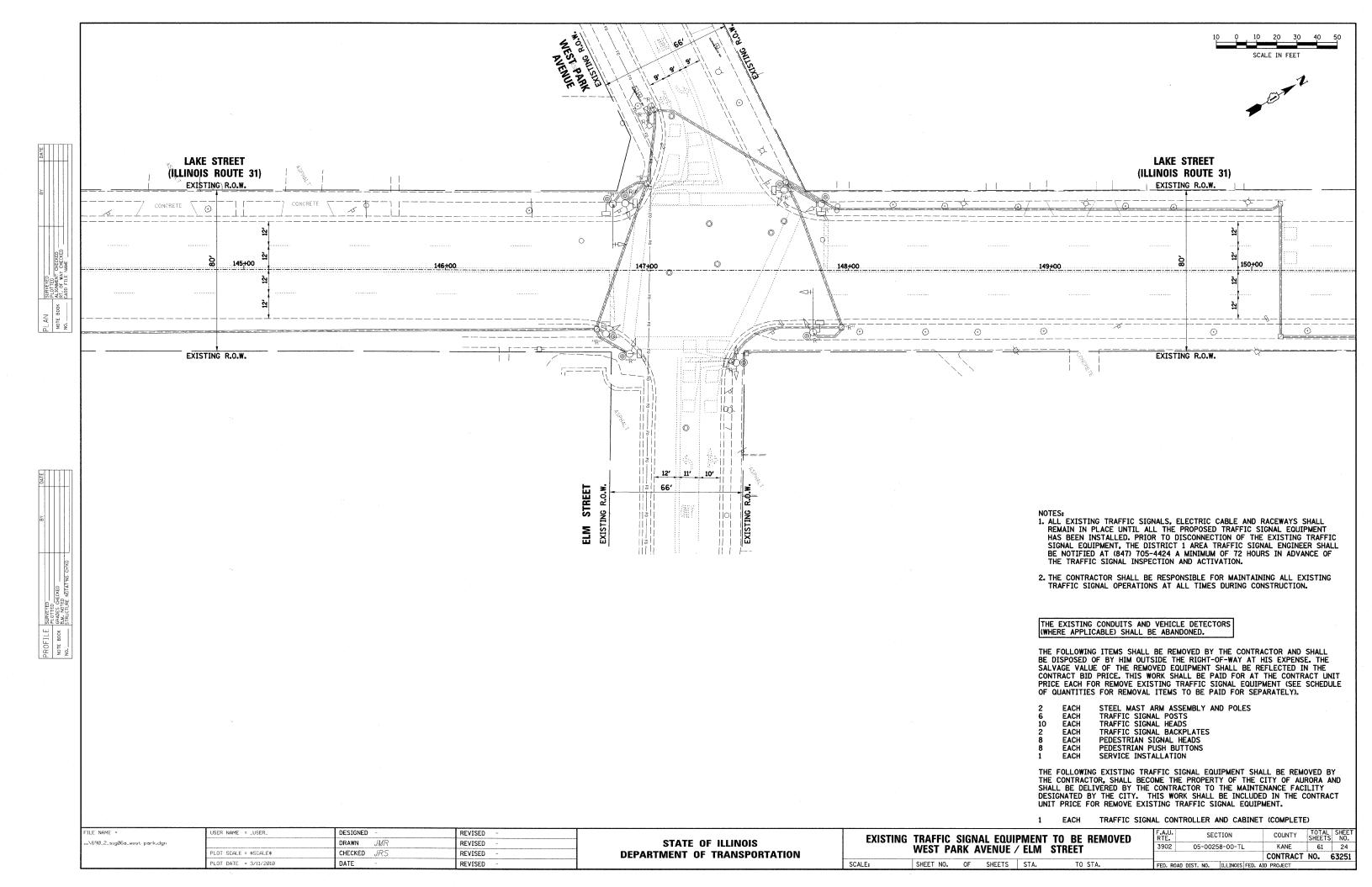
CONTRACT NO. 63251

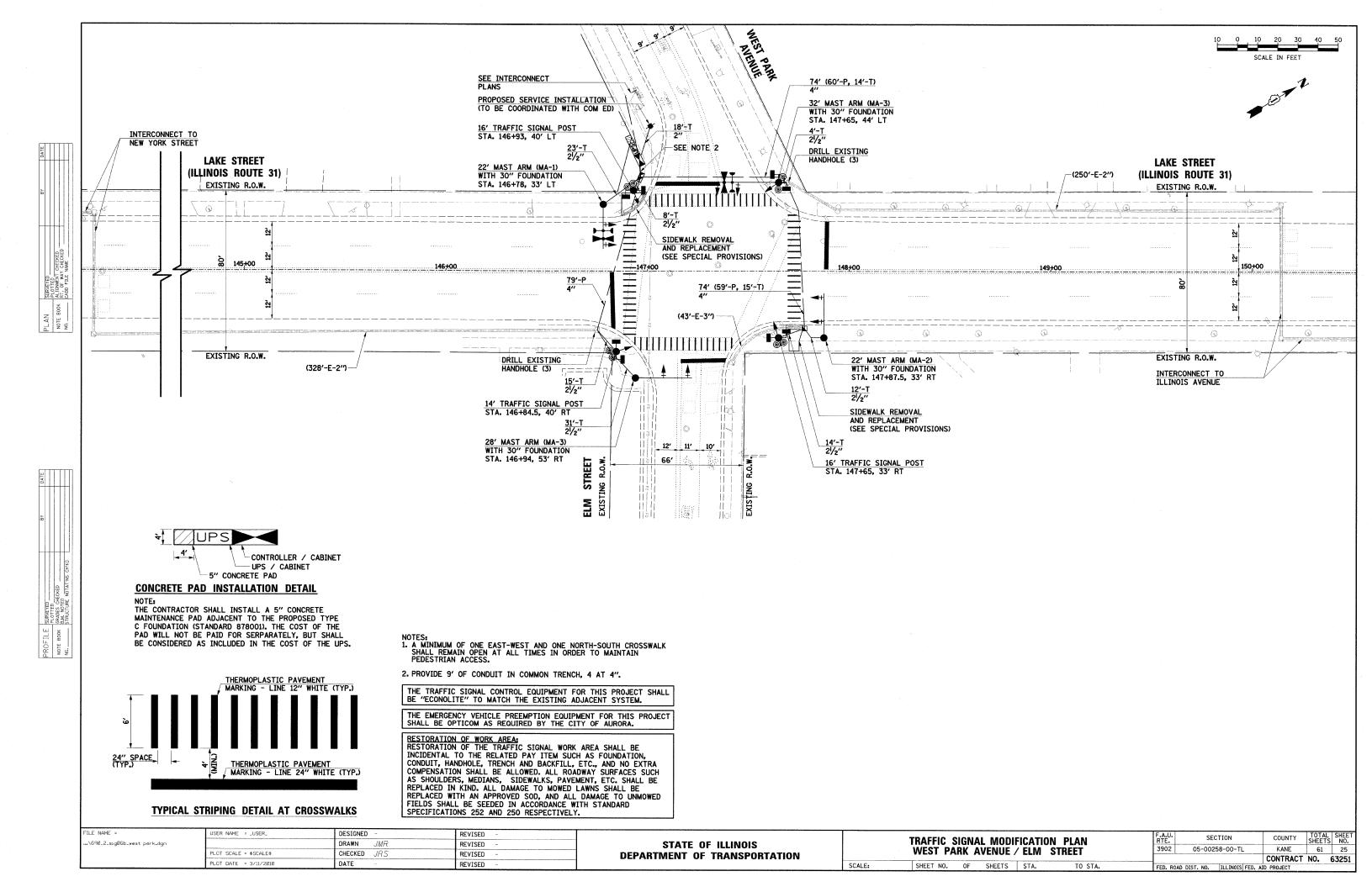
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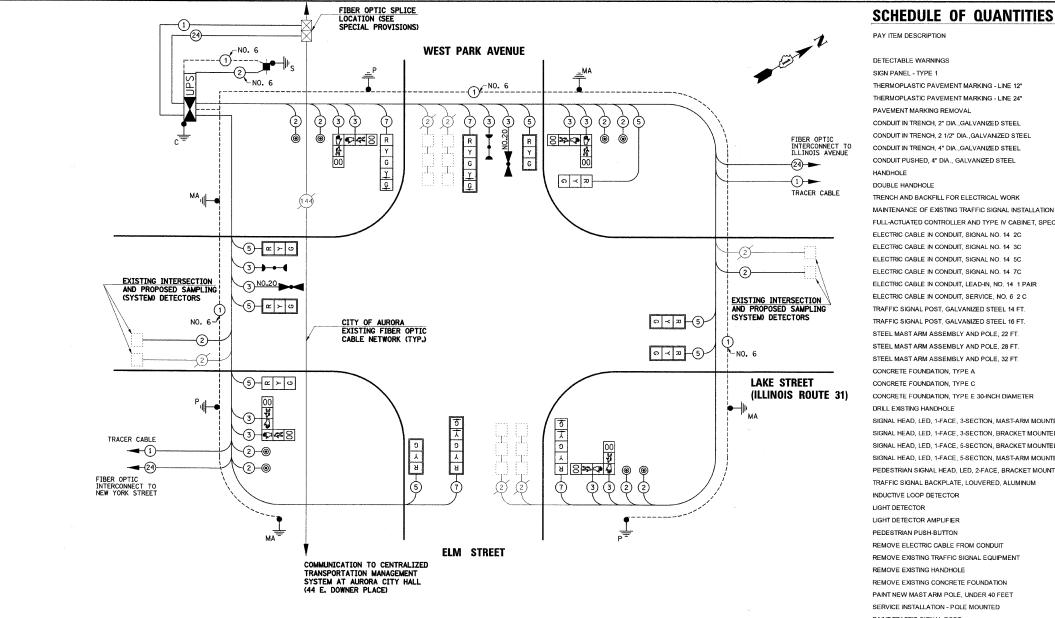
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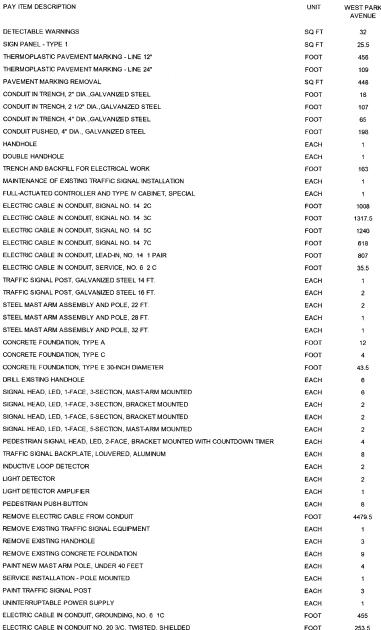


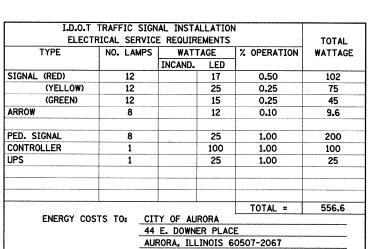
I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS











MARK SCHERIBEL

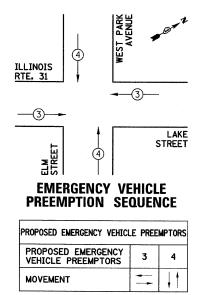
(630) 723-2128

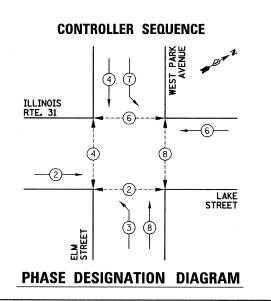
COMMONWEALTH EDISON

ENERGY SUPPLY CONTACT:

PHONE:

COMPANY:





CONTROLL	ER SEQUENCE LEGEND
◆	DUAL ENTRY PHASE
*	SINGLE ENTRY PHASE
€ ® OL	OVERLAP
*	NUMBER REFERRING TO ASSOCIATED PHASE
← -(*)	PEDESTRIAN PHASE

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

SQ FT

EACH

173

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED
\690_2_sig06c_west park.dgn	^	DRAWN JMR	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -
	PLOT DATE = 3/11/2010	DATE -	REVISED -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

CABLE PLAN
PHASE DESIGNATION

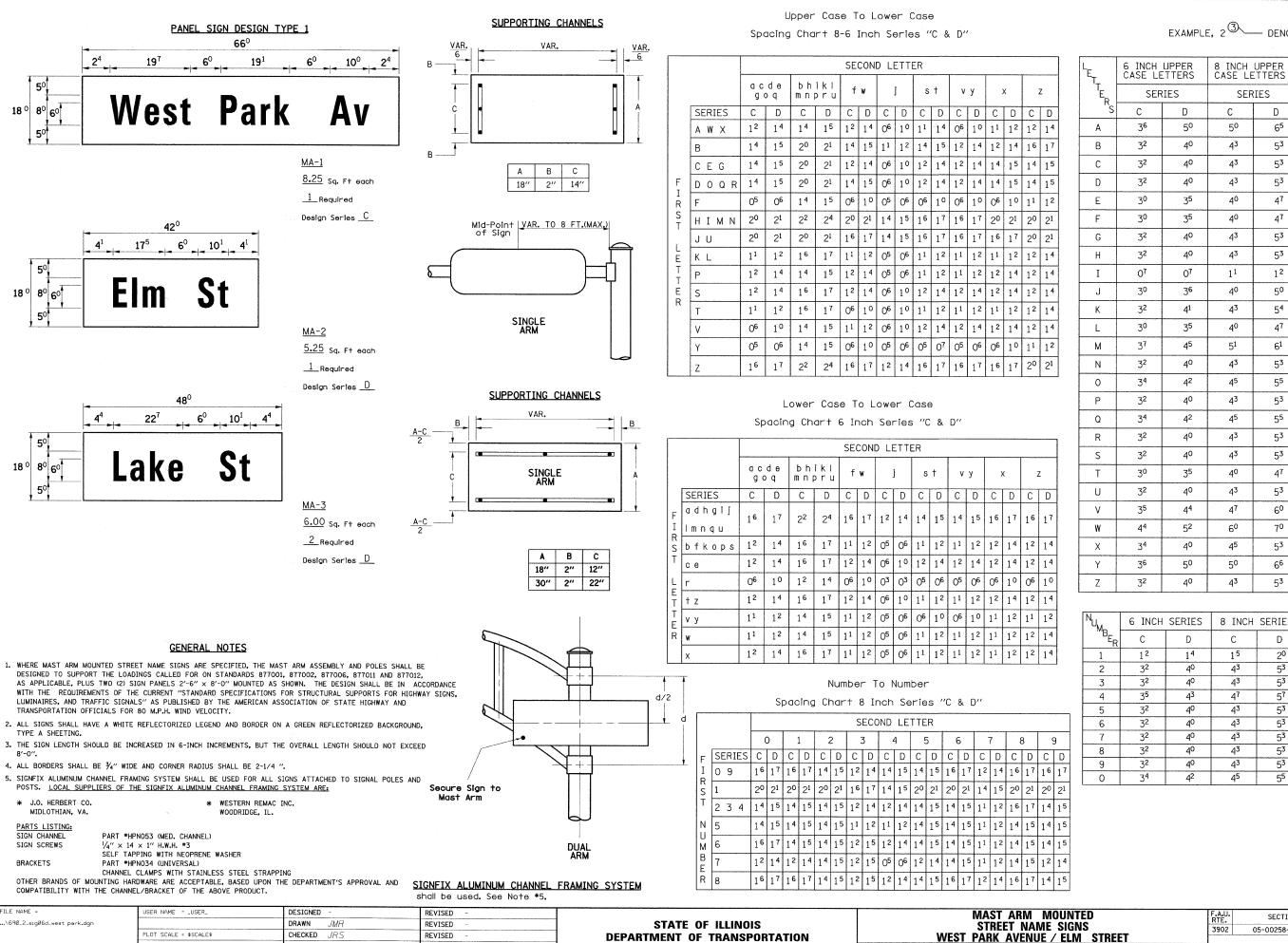
WEST PARK AVENUE

SCALE:

SCALE

N AND ON DIAGRAM		F.A.U. RTE.		SECTION		COUNTY	TOTAL SHEETS	SHEE NO.	
01			3902	05	-002	58-00-TL	KANE	61	26
E /	ELM :	STREET					CONTRACT	NO.	63251
;	STA.	TO STA.	FED. ROA	D DIST.	NO.	ILLINOIS FED.	AID PROJECT		

GROUND EXISTING HANDHOLE FRAME AND COVER



PLOT DATE = 3/11/2010

DATE

REVISED

EXAMPLE, 2 DENOTES 3/8"

L _E T _T R _S	6 INCH CASE LE	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		6 INCH LOWER CASE LETTERS		
E _D	SER	RIES	SER	RIES	L _E T _T ER S	SERIES		
'\s	С	D	С	D	"S	С	D	
Α	3 ⁶	5 ⁰	50	6 ⁵	а	3 ⁵	42	
В	3 ²	40	43	53	b	3 5	42	
С	3 ²	40	43	5 ³	С	3 ⁵	41	
D	3 ²	40	43	5 ³	d	3 ⁵	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	32	40	43	5 ³	h	3 ⁵	42	
I	07	07	1 ¹	1 ²	i	11	11	
J	30	36	40	50	j	20	2 ²	
K	3 ²	41	43	5 ⁴	k	3 ⁵	4 ²	
L	30	3 ⁵	40	47	ı	11	11	
М	3 ⁷	45	5 ¹	6 ¹	m	6 ⁰	70	
N	3 ²	40	43	5 ³	n	3 ⁵	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	3 ⁵	42	
R	3 ²	40	43	5 ³	r	26	32	
S	3 ²	40	43	5 ³	s	3 ⁶	42	
Т	30	3 ⁵	40	47	+	2 ⁷	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	55	64	
Х	3 ⁴	40	45	5 ³	×	44	5 ¹	

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43

66

53

SECTION

05-00258-00-TL

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

3902

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43

TOTAL SHEE SHEETS NO.

61 27

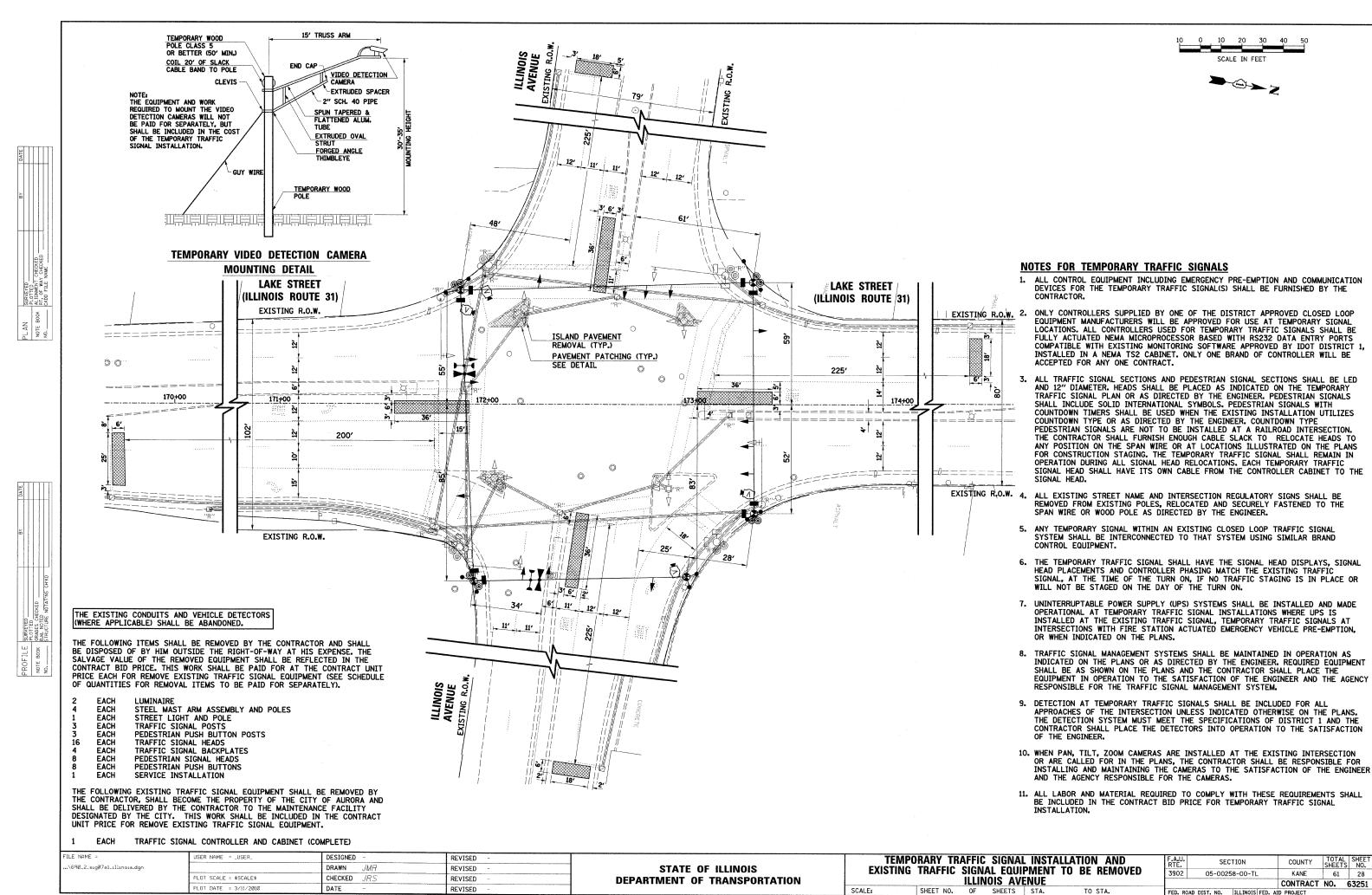
CONTRACT NO. 63251

KANE

46

36

N _{UMBER}	6 INCH	SERIES	8 INCH	SERIES
"B _{ER}	С	D	С	D
1	12	14	15	20
2	3 ²	40	43	53
3	32	40	43	5 ³
4	35	43	47	5 ⁷
5	3 ²	40	43	5 ³
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	34	42	45	55



10 20 30 40

SCALE IN FEET

>©>Z

SECTION

05-00258-00-TI

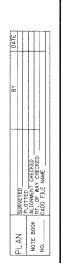
3902

TOTAL SHEE SHEETS NO.

61 28

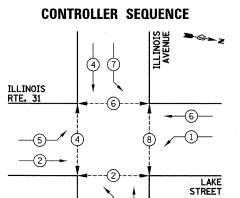
CONTRACT NO. 63251

KANE



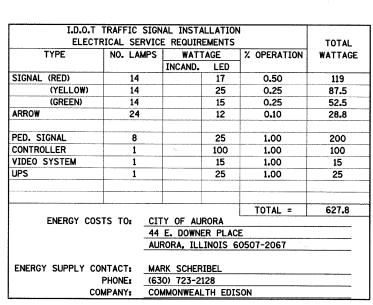


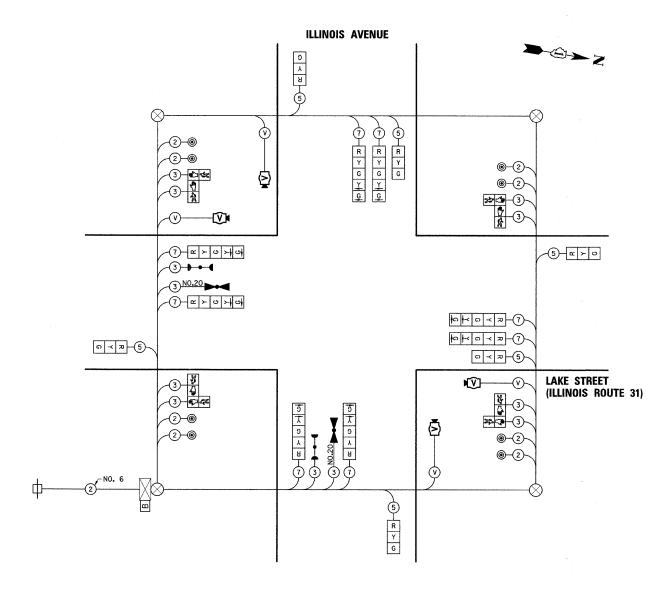
..\690_2_sig07a2_illinois.dgn



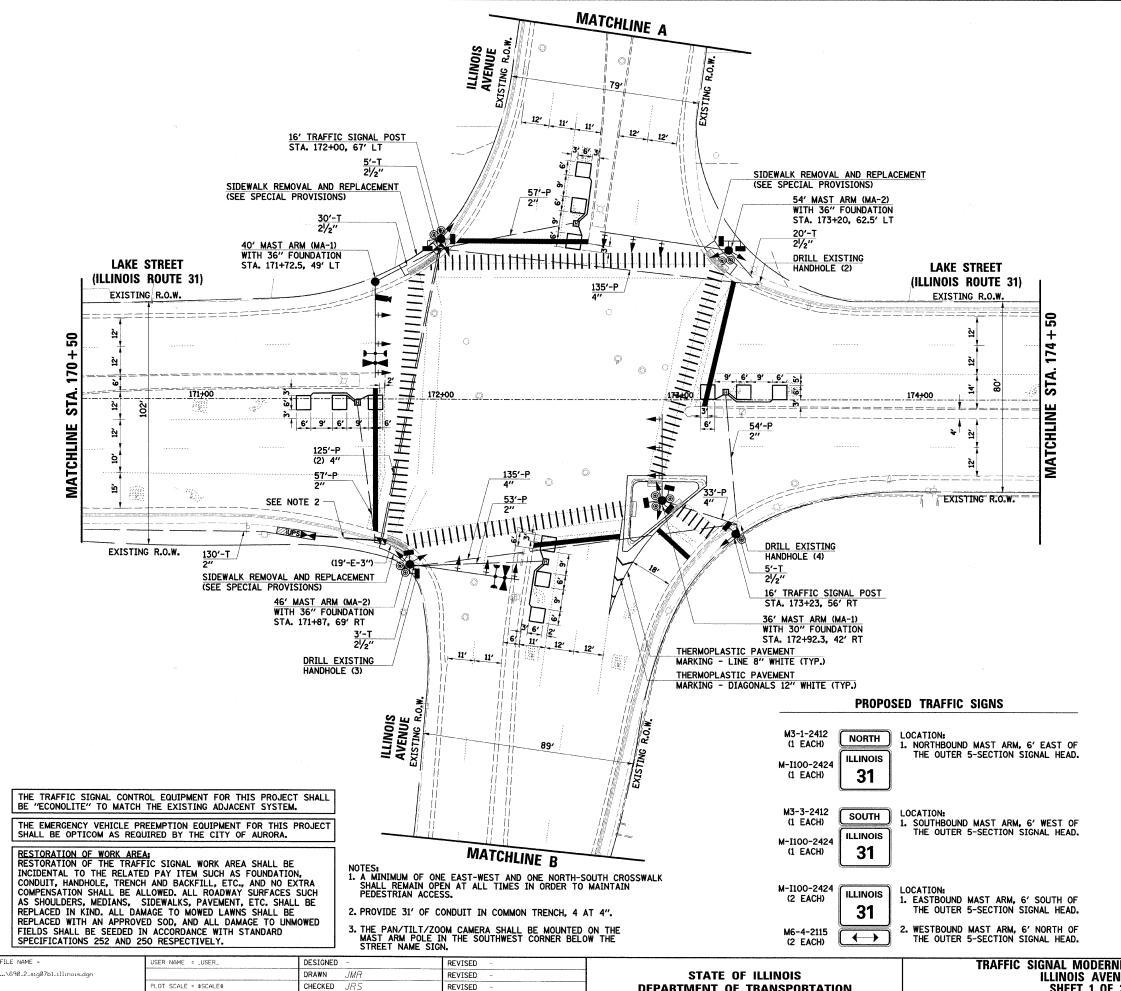
TEMPORARY PHASE DESIGNATION DIAGRAM

CONTROLL	ER SEQUENCE LEGEND
◄ —(*)——	DUAL ENTRY PHASE
*	SINGLE ENTRY PHASE
<u>t</u> ◆ OL	OVERLAP
*	NUMBER REFERRING TO ASSOCIATED PHASE
→ -(*)	PEDESTRIAN PHASE

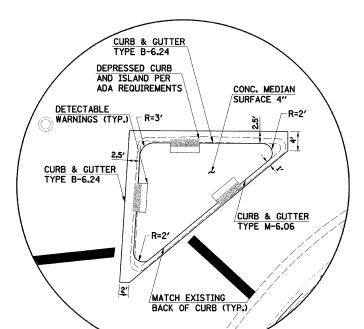




USER NAME = _USER_	DESIGNED -	REVISED -		TEMPORARY TRAFFIC SIGNAL	F.A.U.	SECTION COUNTY	TOTAL	SHEET
	DRAWN JMR	REVISED -	STATE OF ILLINOIS	CABLE PLAN AND PHASE DESIGNATION DIAGRAM	KIE.		SHEETS	NO.
PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION	ILLINOIS AVENUE	3902 05-0	00258-00-TL KANE	61 CT NO (29
PLOT DATE = 3/11/2010	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO	CONTRAC	/1 NU. 6	63251



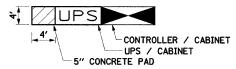
REVISED



SCALE IN FEET

NE ISLAND DETAIL

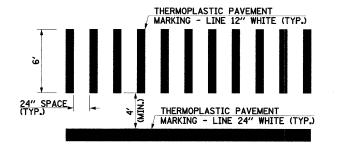
NOTE: SEE SPECIAL PROVISIONS FOR ISLAND PAVEMENT REMOVAL AND REPLACEMENT.



CONCRETE PAD INSTALLATION DETAIL

NOTE:

THE CONTRACTOR SHALL INSTALL A 5" CONCRETE MAINTENANCE PAD ADJACENT TO THE PROPOSED TYPE C FOUNDATION (STANDARD 878001). THE COST OF THE PAD WILL NOT BE PAID FOR SERPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE UPS.



TYPICAL STRIPING DETAIL AT CROSSWALKS

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SCALE:

SCALE:

STAFFIC SIGNAL MODERNIZATION PLAN

ILLINOIS AVENUE

SHEET 1 OF 2

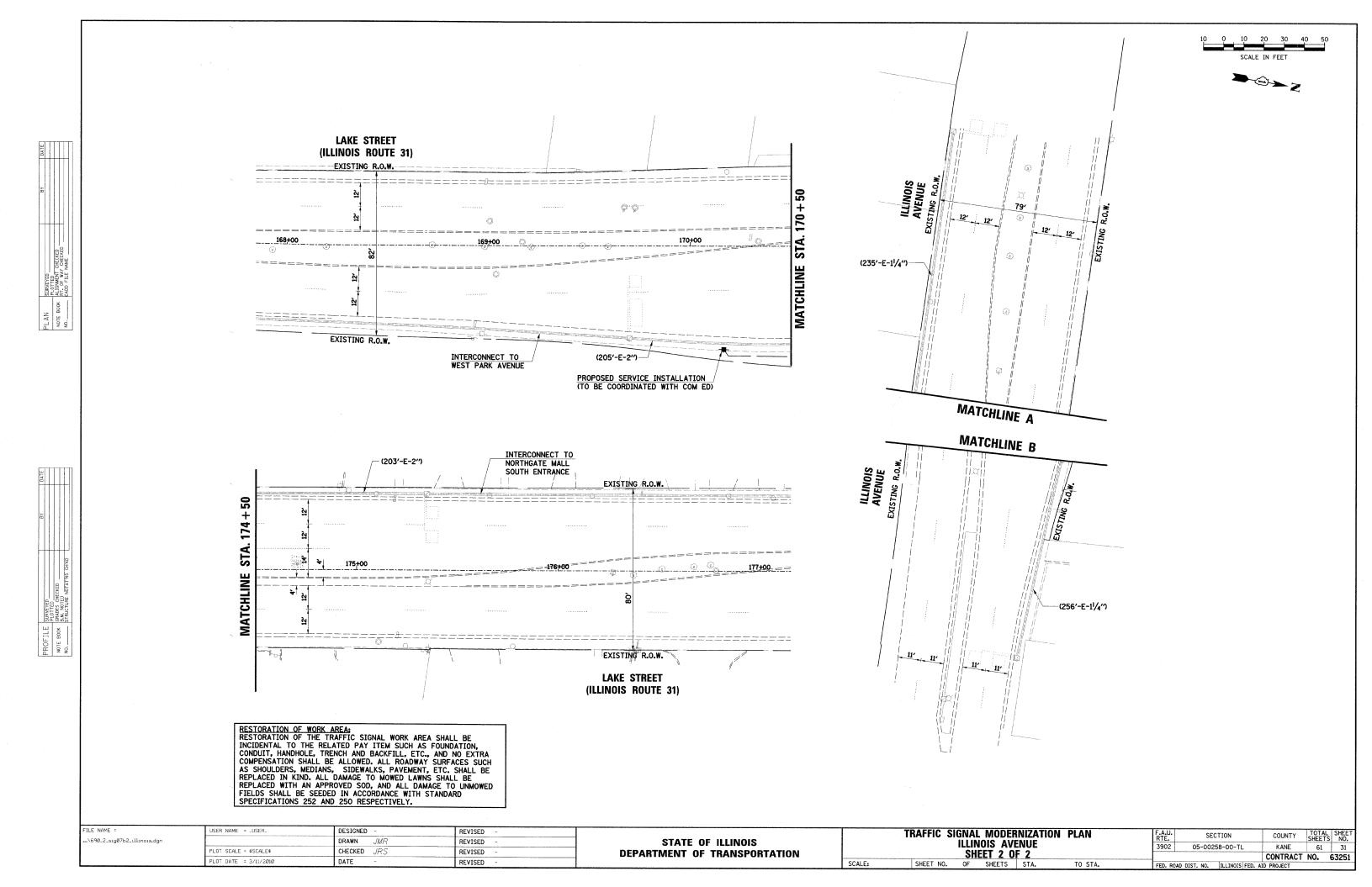
SCALE:

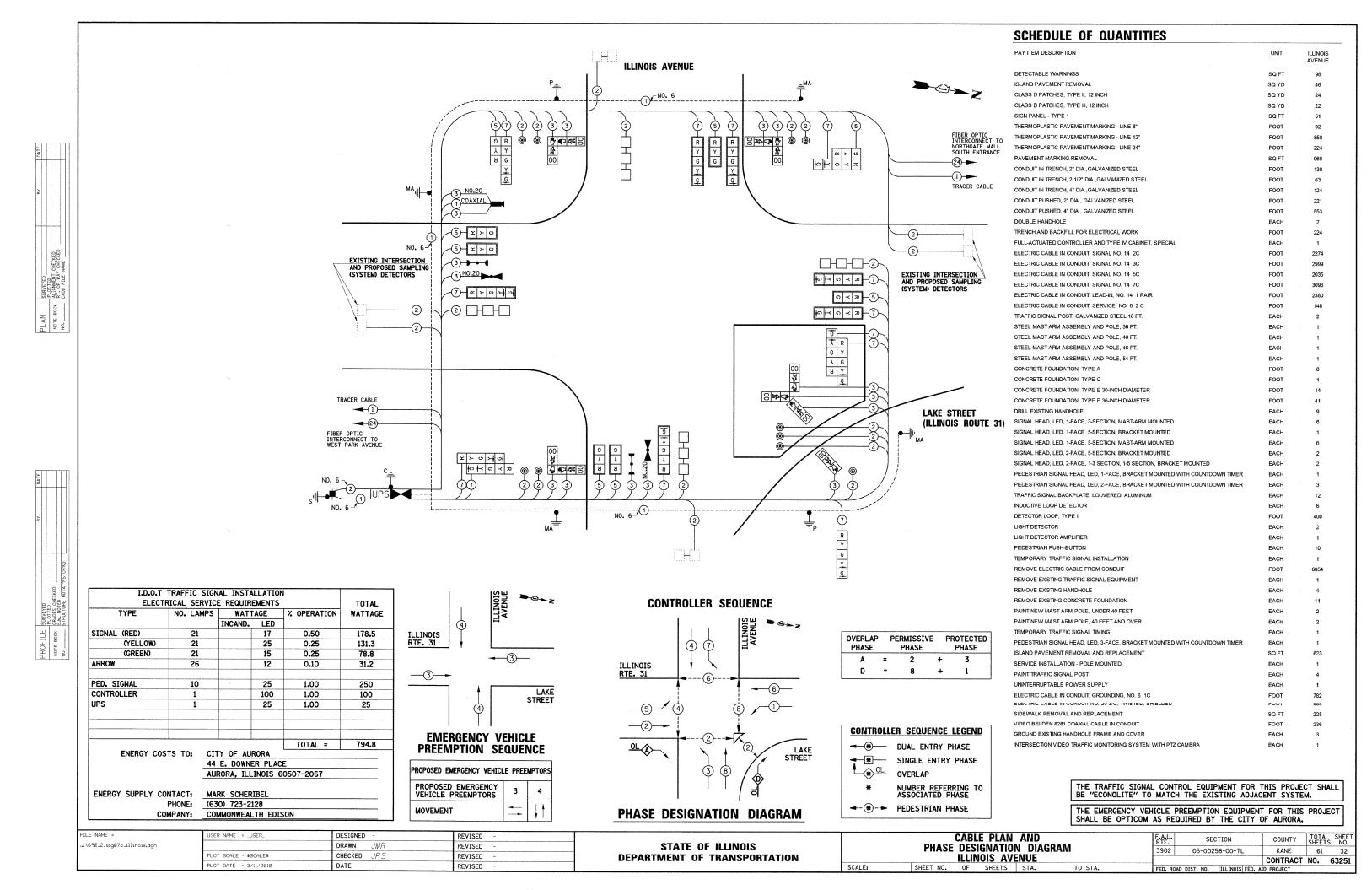
SHEET NO. OF SHEETS STA. TO STA.

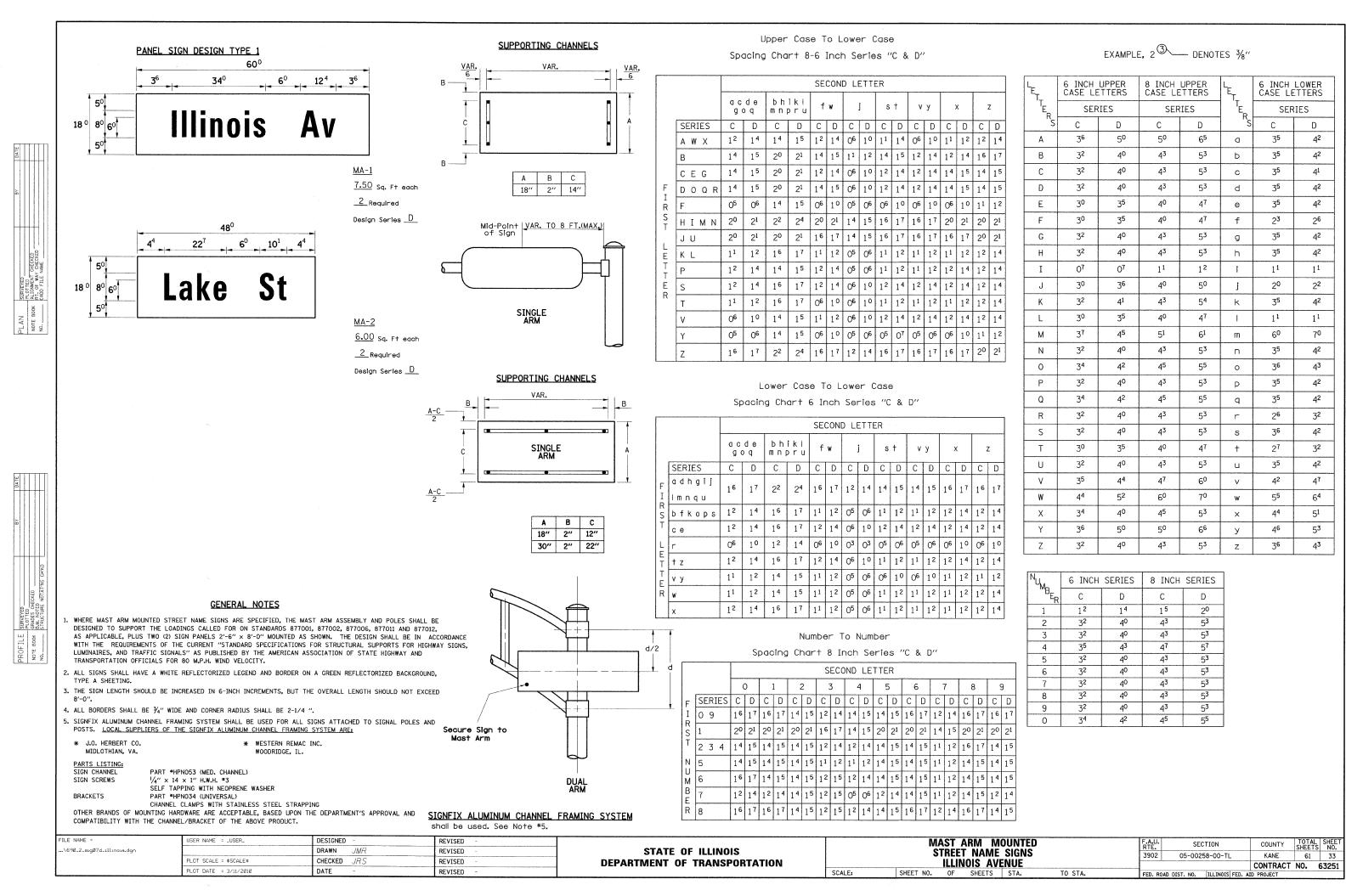
FA.U. SECTION COUNTY SHEETS NO. SHEETS NO. SHEETS STA. TO STA.

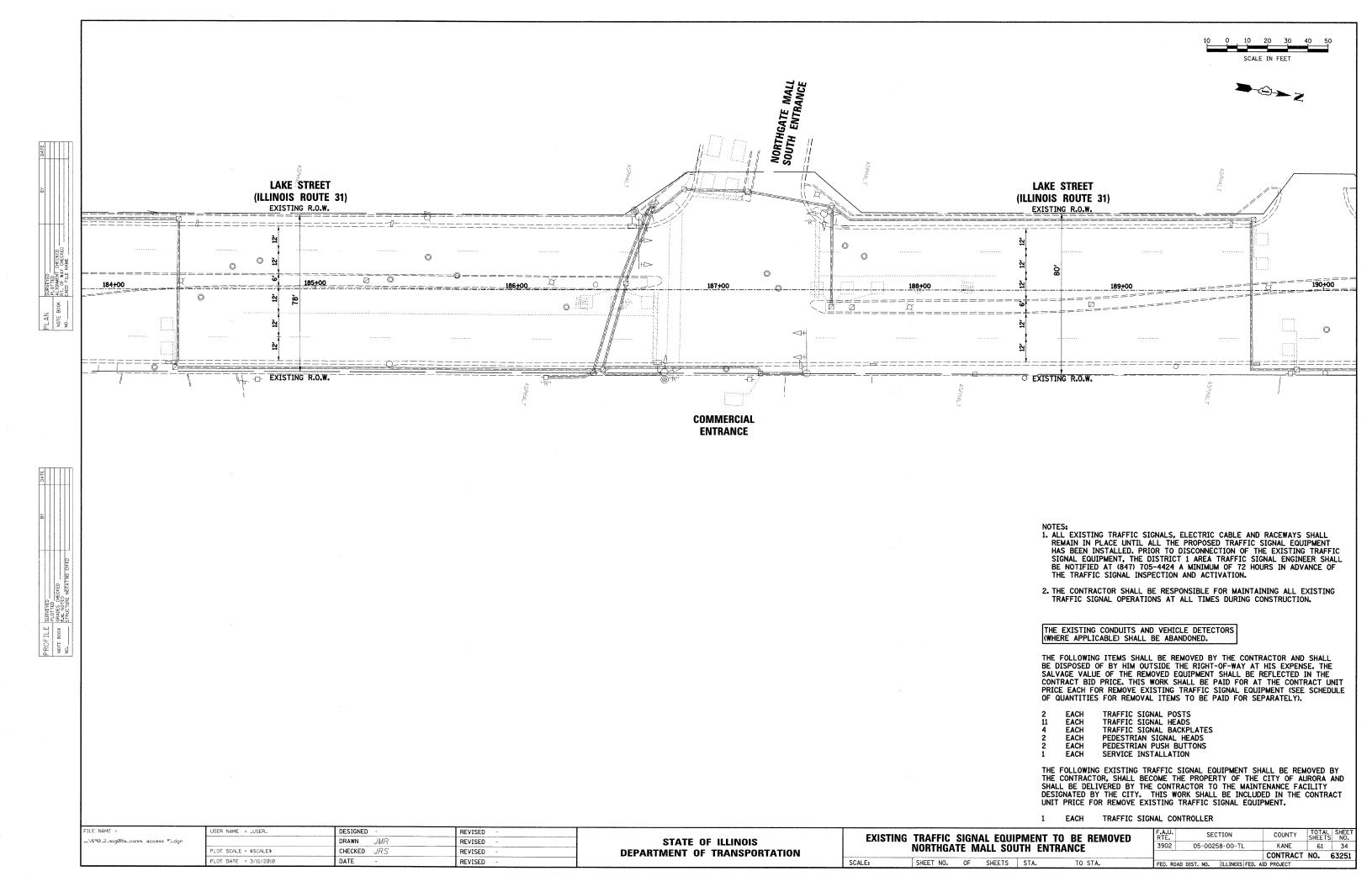
FED. ROAD DIST, NO. ILLINOIS FED. AID PROJECT

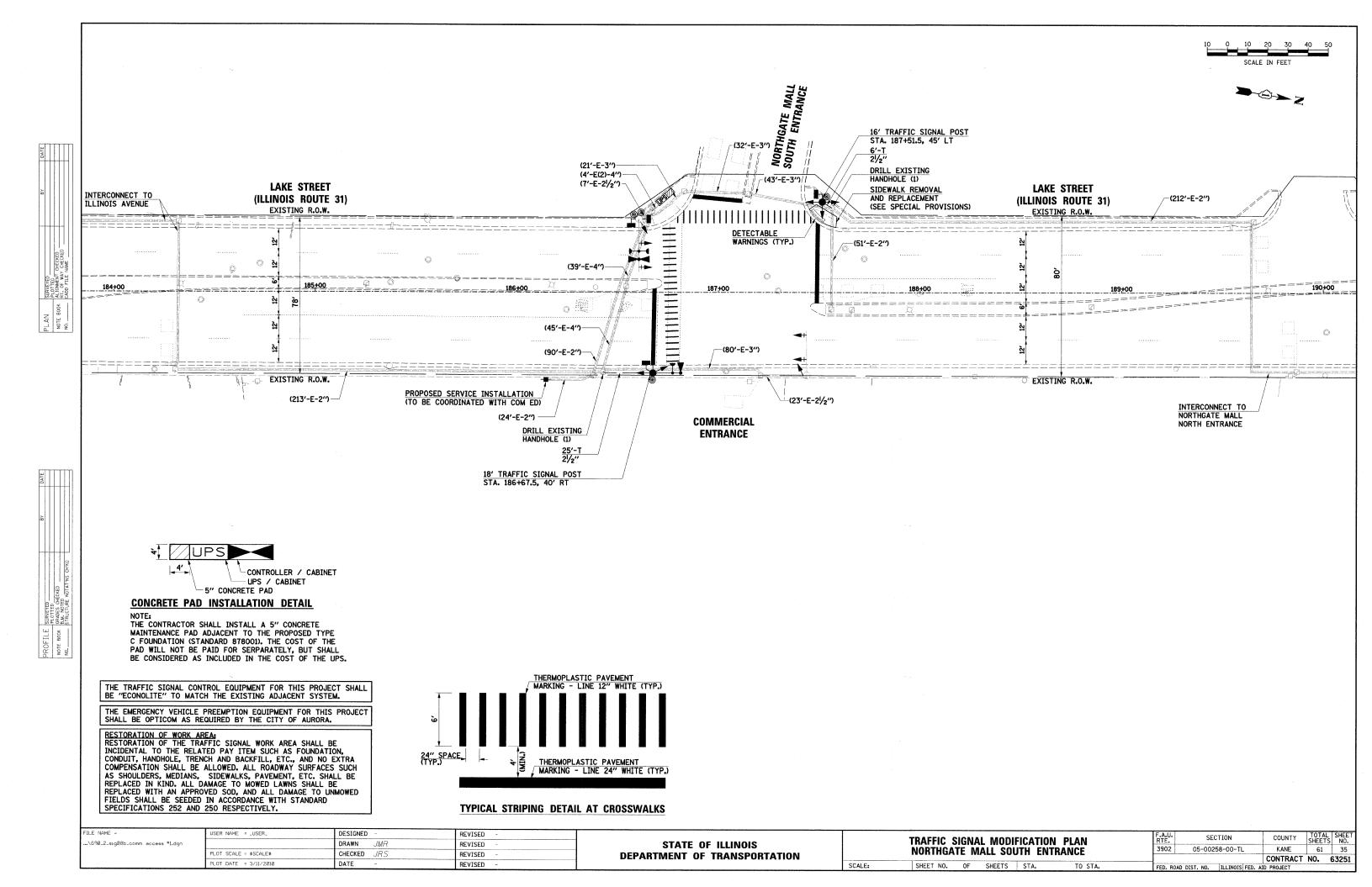
CONTRACT NO. 63251

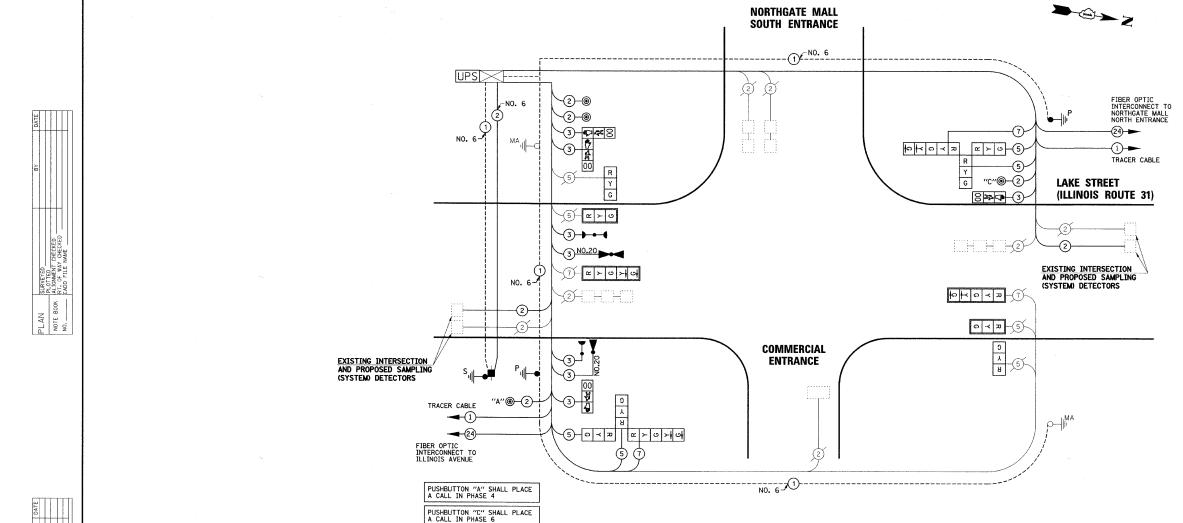


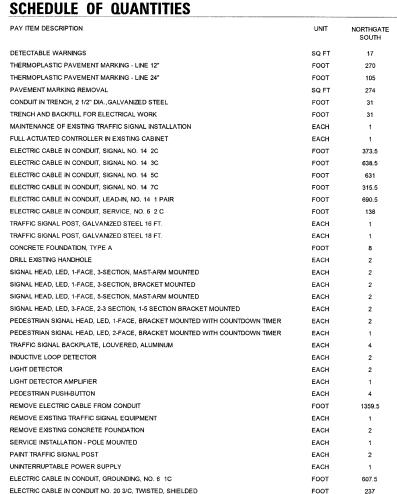






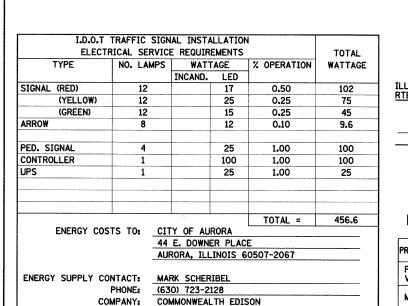






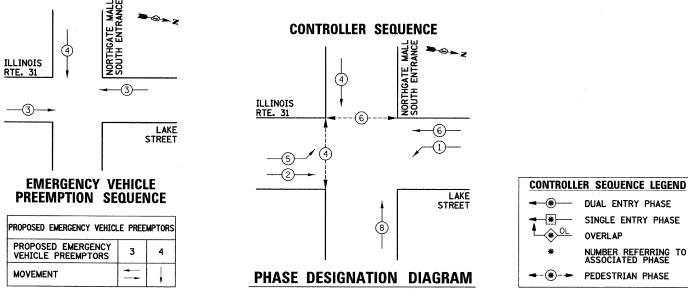
SIDEWALK REMOVAL AND REPLACEMENT

GROUND EXISTING HANDHOLE FRAME AND COVER



FILE NAME

.\690_2_sig08c_comm access #1.dgn



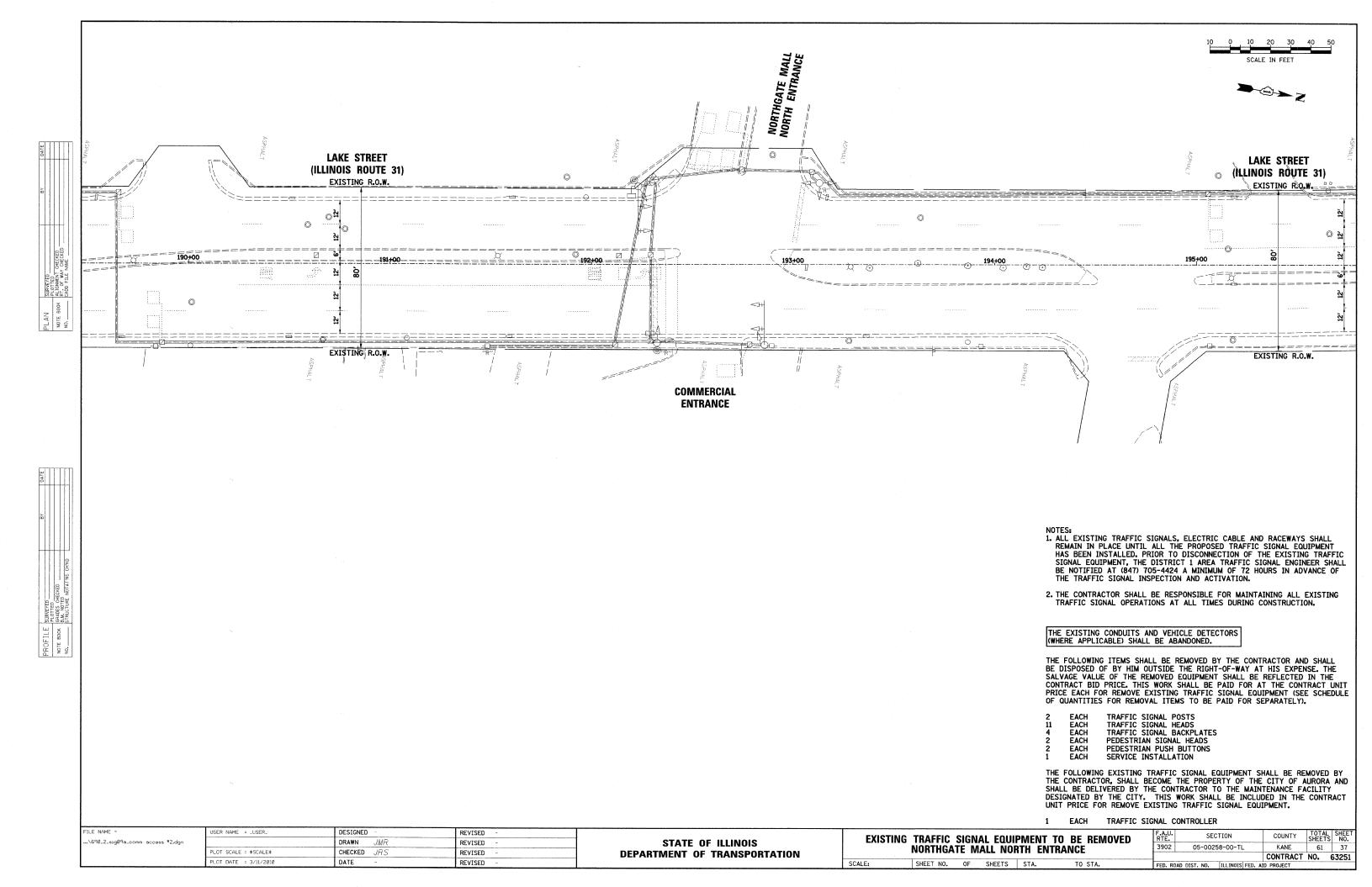
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

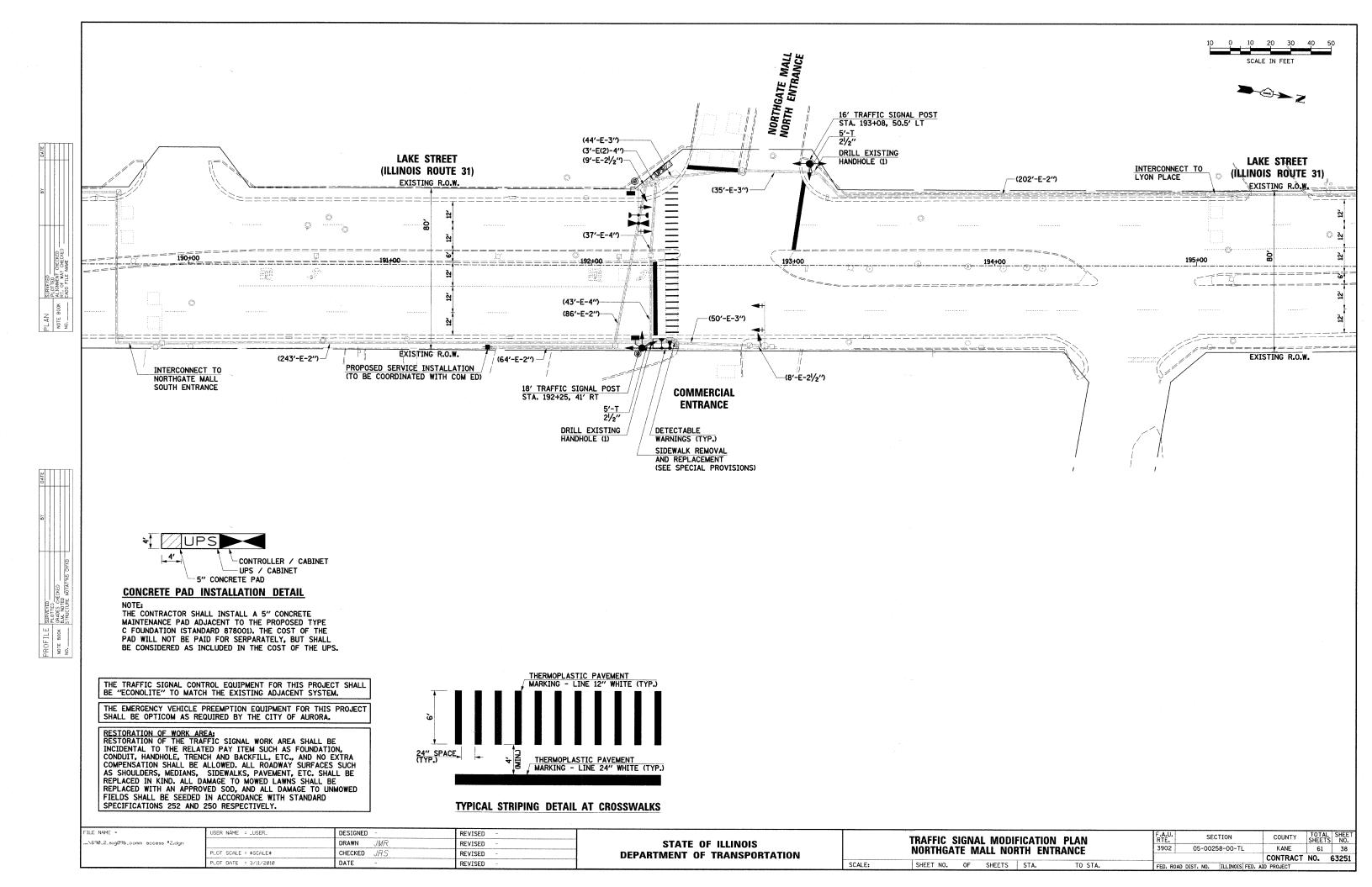
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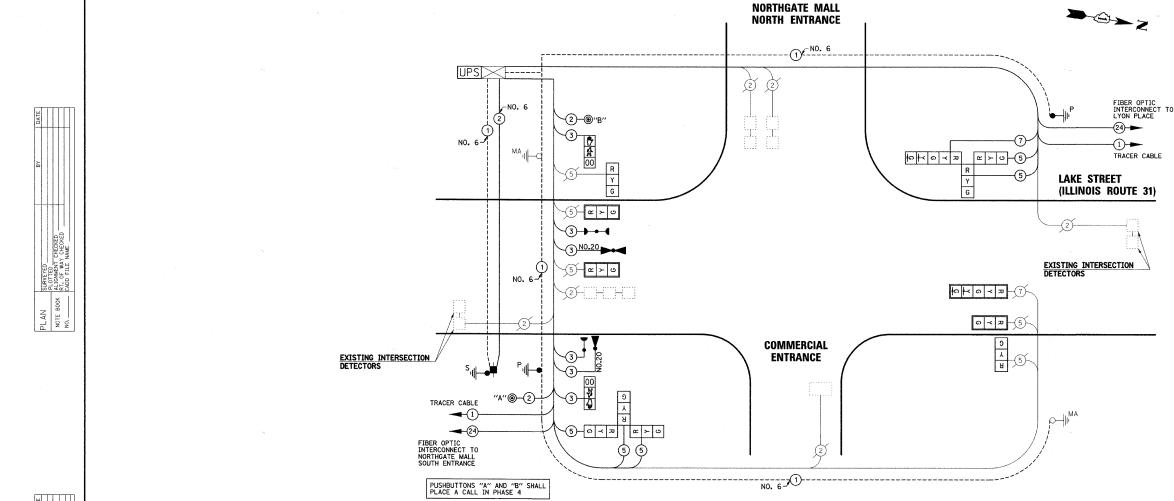
SQ FT

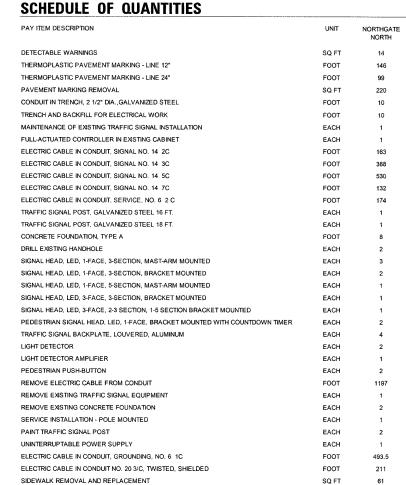
EACH

	**		· ·		SHALL BE OF ICOM AS REQU	THE CITY	OF AURONA.	
USER NAME = _USER_	DESIGNED -	REVISED -		CABLE PLAN AND	F.A.U.	SECTION	COUNTY TO	TAL SHEET
	DRAWN JMR	REVISED -	STATE OF ILLINOIS	PHASE DESIGNATION DIAGRAM	N RTE.	05-00258-00-TL	KANE 6	ETS NO.
PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION	NORTHGATE MALL SOUTH ENTRA		U5-UU258-UU-TL	CONTRACT NO.	61 36
PLOT DATE = 3/11/2010	DATE -	REVISED ~		SCALE: SHEET NO. OF SHEETS STA.	TO STA. FED. ROAD	DIST. NO. THE INDIS FED.	AID PROJECT	. 63251









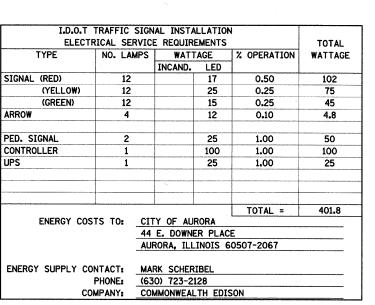
GROUND EXISTING HANDHOLE FRAME AND COVER

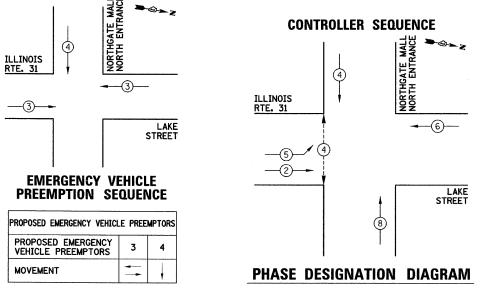
CONTROLLER SEQUENCE LEGEND

→ W DUAL ENTRY PHASE

←-* PEDESTRIAN PHASE

★ SINGLE ENTRY PHASE



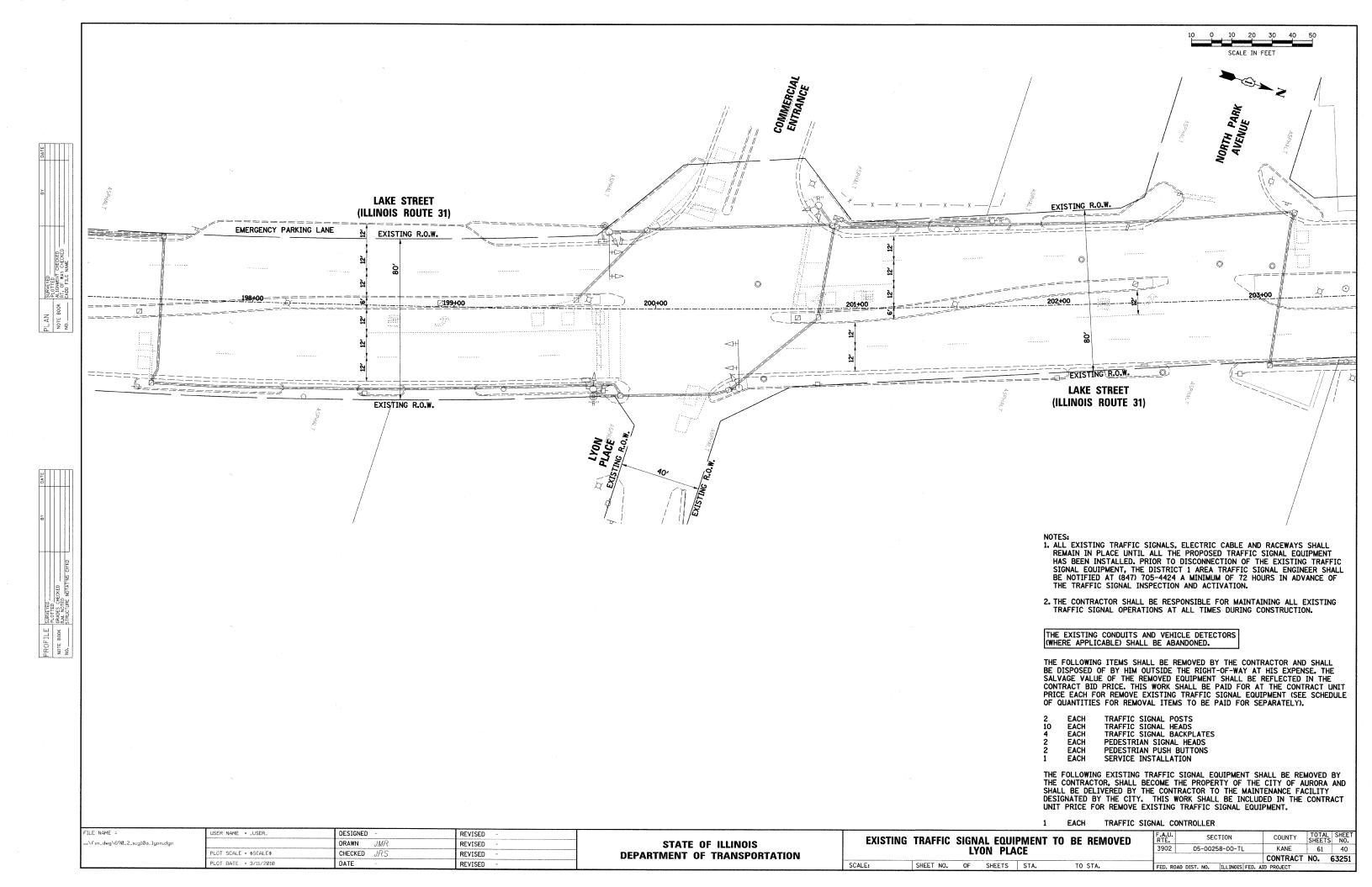


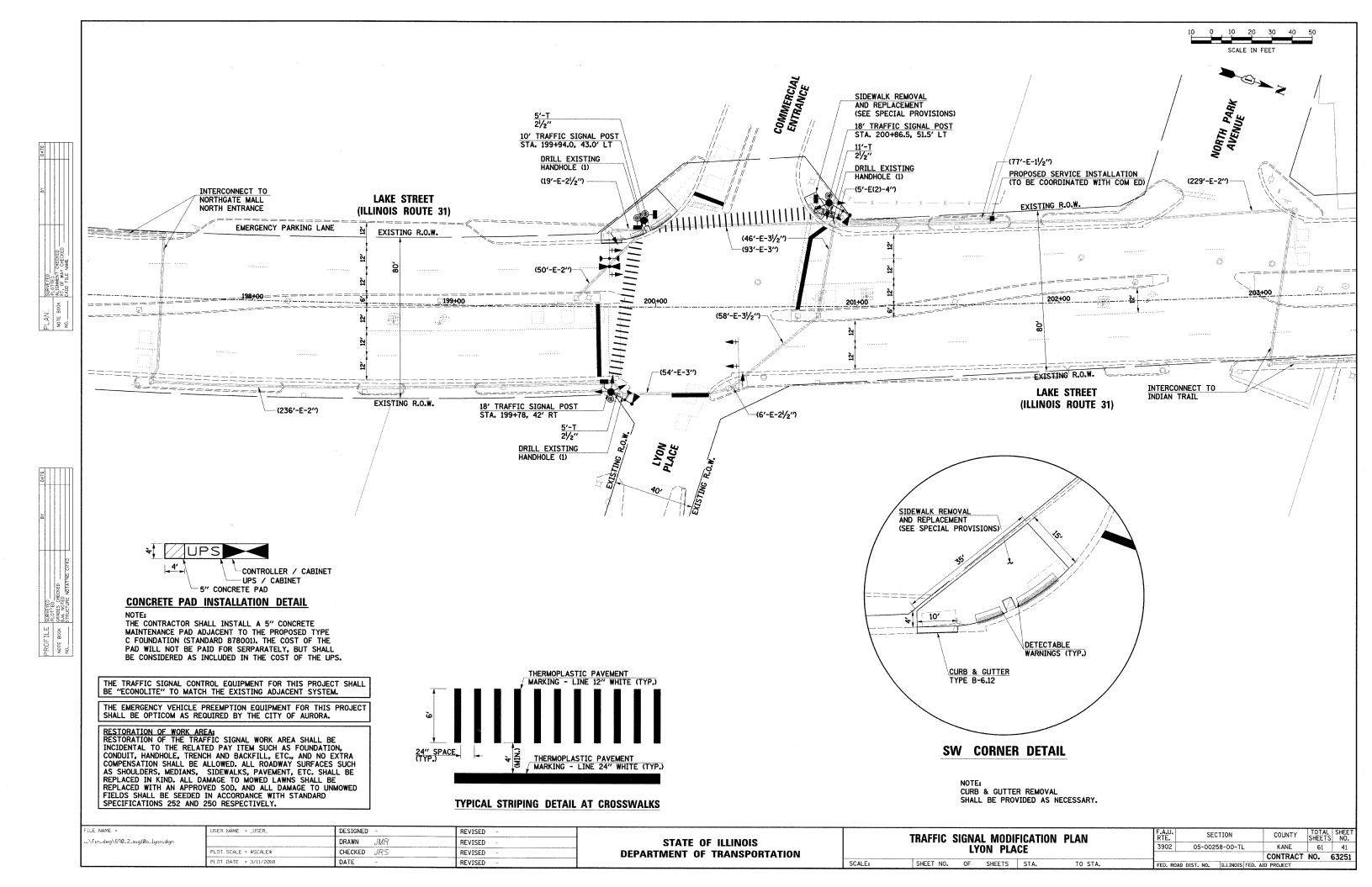
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

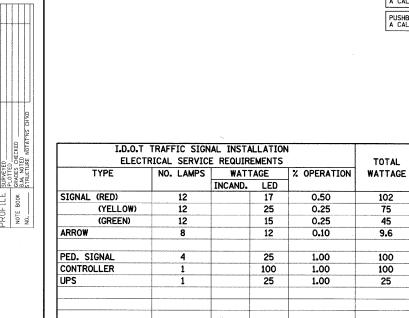
EACH

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FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -			CABLE PLAN AND	F.A.U. SECTION	COUNTY	TOTAL	SHE
\690_2_sig09c_comm access #2.dgn		DRAWN JMR	REVISED -	STATE OF ILLINOIS		PHASE DESIGNATION DIAGRAM	3902 05-00258-00-TI	VANE	SHEETS	N
	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION		NORTHGATE MALL NORTH ENTRANCE	03-00236-00-1L	CONTRACT	, NO	632
	PLOT DATE = 3/11/2010	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. A		NO.	oJZ:









ENERGY COSTS TO: CITY OF AURORA

ENERGY SUPPLY CONTACT: MARK SCHERIBEL

PHONE:

44 E. DOWNER PLACE

(630) 723-2128

COMPANY: COMMONWEALTH EDISON

AURORA, ILLINOIS 60507-2067

TOTAL

102

75

45

9.6

100

100

25

456.6

TOTAL =

ILLINOIS

─3 **-**

EMERGENCY VEHICLE

PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS

3

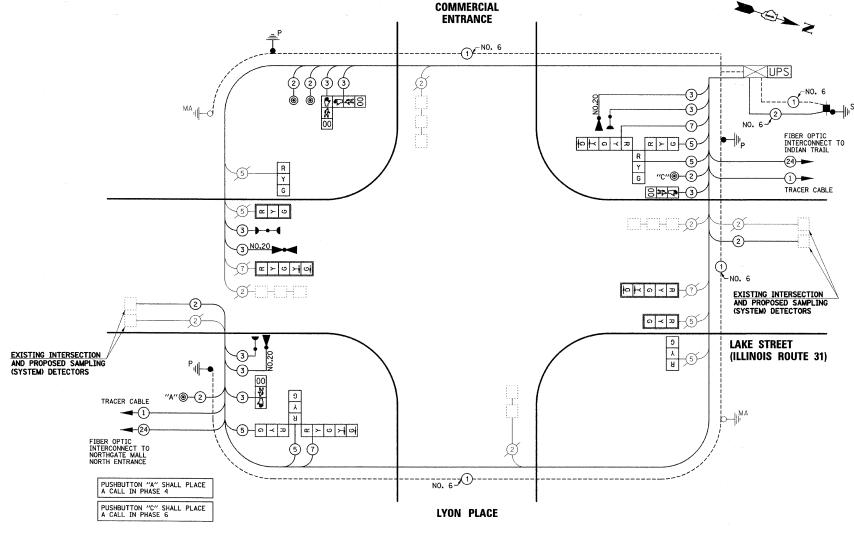
PROPOSED EMERGENCY

VEHICLE PREEMPTORS

MOVEMENT

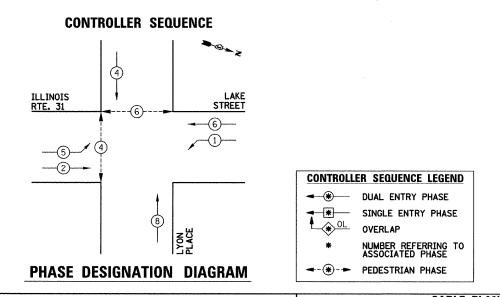
RTE. 31

STREET



PAY ITEM DESCRIPTION LYON PLACE DETECTABLE WARNINGS SOFT 42 COMBINATION CURB AND GUTTER REMOVAL FOOT COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 FOOT 10 THERMOPLASTIC PAVEMENT MARKING - LINE 12" FOOT 281 THERMOPLASTIC PAVEMENT MARKING - LINE 24" FOOT 117 PAVEMENT MARKING REMOVAL SQFT 263 CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL FOOT 21 TRENCH AND BACKFILL FOR ELECTRICAL WORK FOOT MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH FULL-ACTUATED CONTROLLER IN EXISTING CABINET EACH ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C FOOT 522.5 ELECTRIC CABLE IN CONDUIT SIGNAL NO. 14, 3C. FOOT 1012.5 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 267.5 FOOT ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR 697.5 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C FOOT 94.5 TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT. EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT. FACH FOOT CONCRETE FOUNDATION, TYPE A DRILL EXISTING HANDHOLE EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH INDUCTIVE LOOP DETECTOR EACH LIGHT DETECTOR EACH LIGHT DETECTOR AMPLIFIER EACH PEDESTRIAN PUSH-BUTTON EACH REMOVE ELECTRIC CABLE FROM CONDUIT FOOT 1409.5 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH REMOVE EXISTING CONCRETE FOUNDATION EACH SERVICE INSTALLATION - POLE MOUNTED FACH EACH PAINT TRAFFIC SIGNAL POST UNINTERRUPTABLE POWER SUPPLY EACH ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C FOOT 530 ELECTRIC CABLE IN CONDUIT NO. 20 3/C. TWISTED, SHIELDED FOOT 462 SIDEWALK REMOVAL AND REPLACEMENT SQ FT 540 GROUND EXISTING HANDHOLE FRAME AND COVER EACH

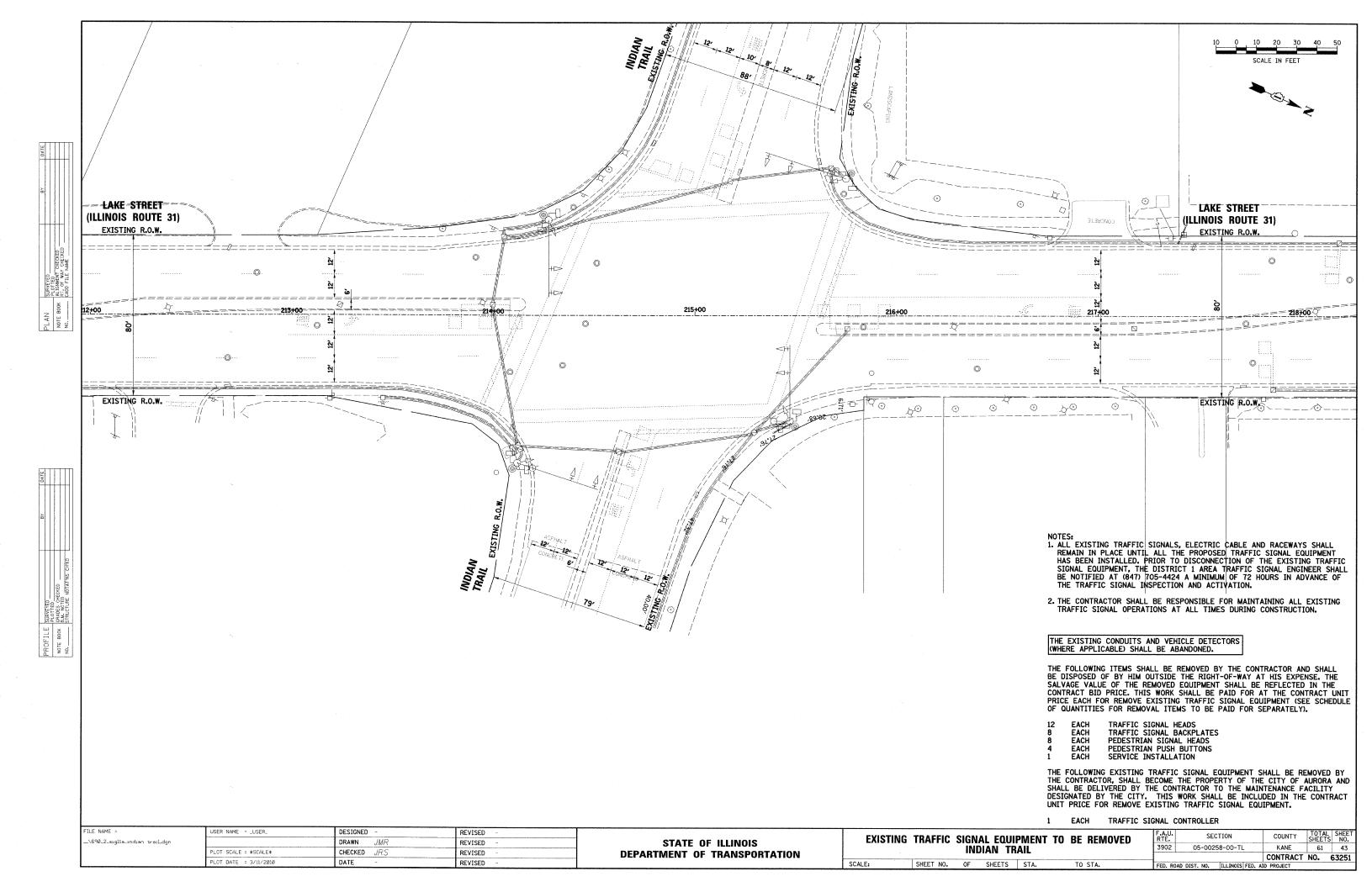
SCHEDULE OF QUANTITIES

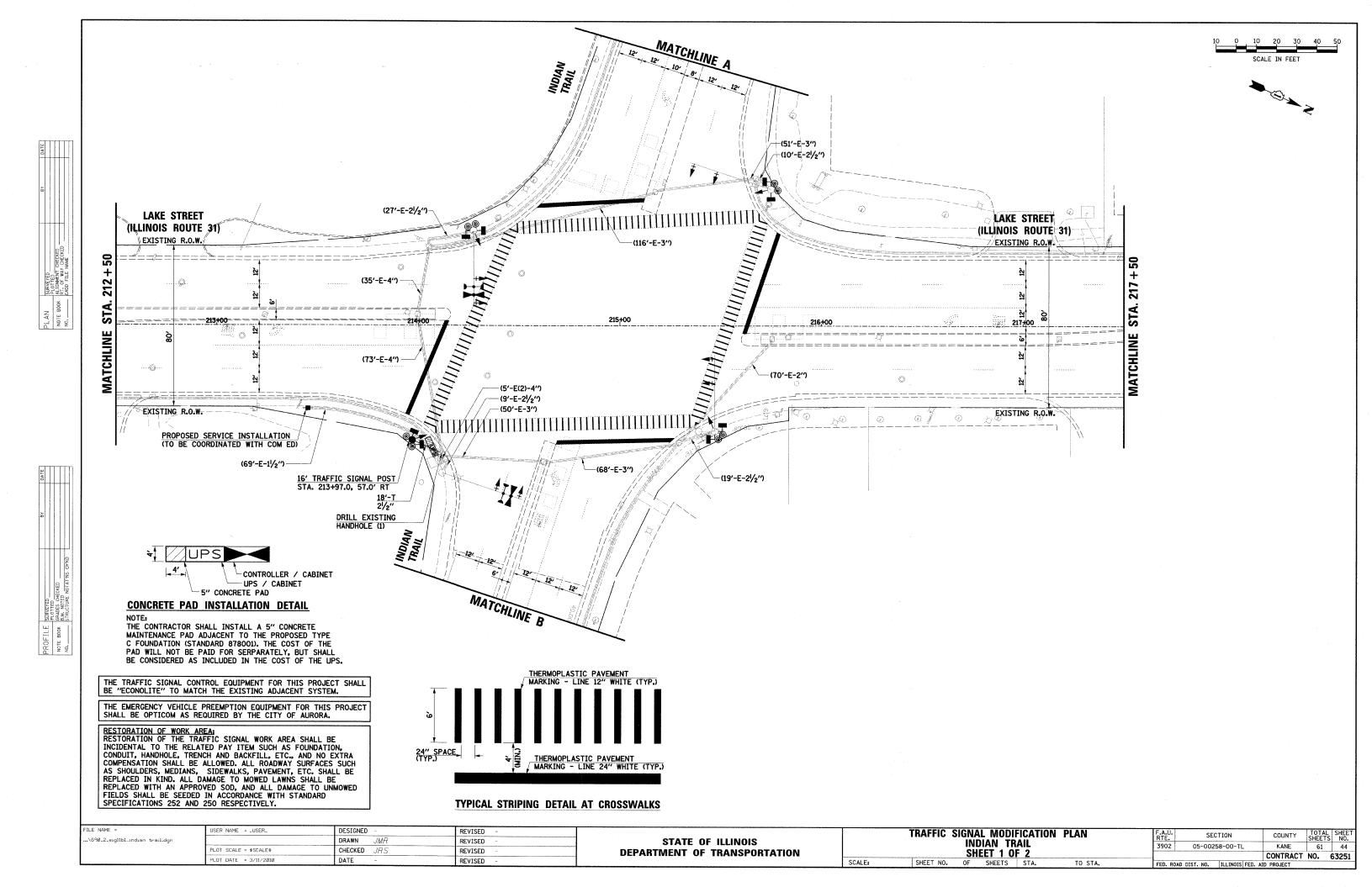


THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

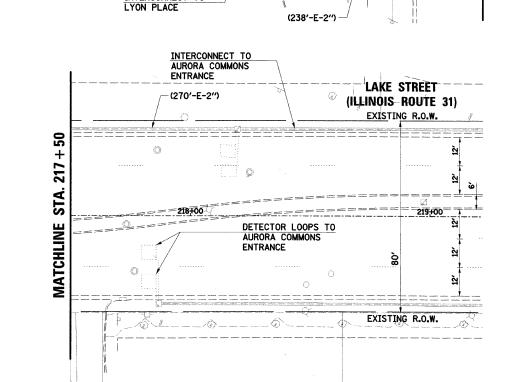
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

FILE NAME = USER	R NAME = _USER_	DESIGNED	REVISED -		CABLE PLAN AND	F.A.U. SECTION COUNTY TOTAL SHEET
\fin_dwg\690_2_sigl0c_lyon.dgn		DRAWN JMR	REVISED -	STATE OF ILLINOIS	PHASE DESIGNATION DIAGRAM	3902 05-00258-00-TL KANE 61 42
PLOT	IT SCALE = \$SCALE\$	CHECKED JRS	REVISED	DEPARTMENT OF TRANSPORTATION	LYON PLACE	CONTRACT NO. 63251
PLOT	T DATE = 3/11/2010	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT









212

STA.

MATCHLINE

(309'-E-2")-MATCHLINE A MATCHLINE B INDIAN TRAIL EXISTING R.O.W. ~(219'-E-2'')

10 20 30 40 50

SCALE IN FEET

* (a) *

RESTORATION OF WORK AREA:
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE
INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION,
CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA
COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH
AS SHOULDERS, MEDIANS, SIDEWALKS, PAYEMENT, ETC. SHALL BE
REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE
REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED
FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD
SPECIFICATIONS 252 AND 250 RESPECTIVELY.

LAKE STREET
(JLLINOIS ROUTE 31)

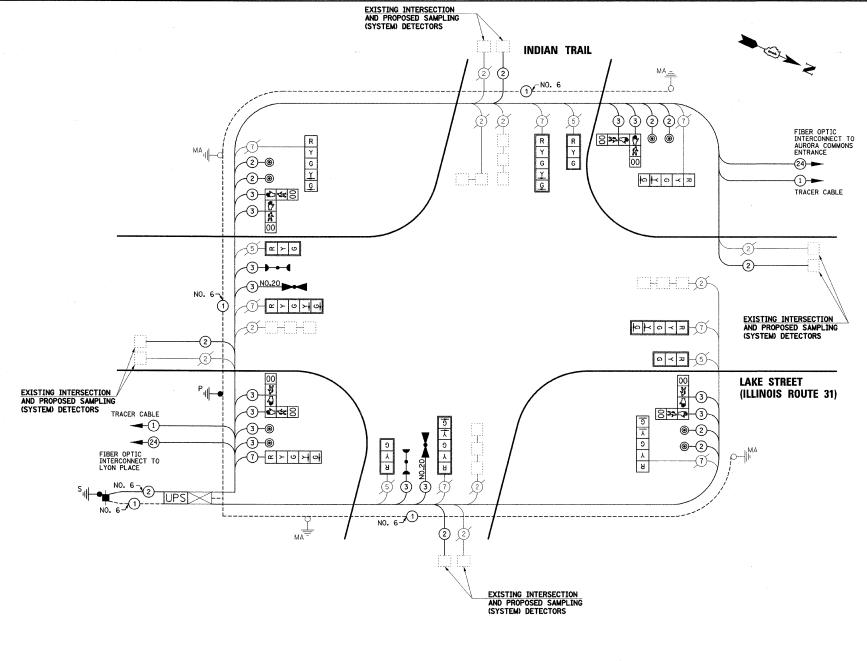
EXISTING R.O.W.

EXISTING R.O.W.

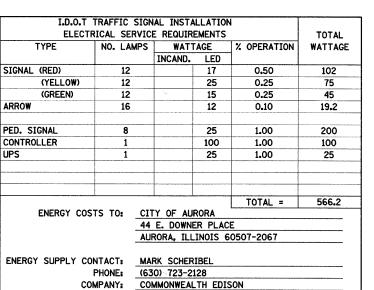
INTERCONNECT TO

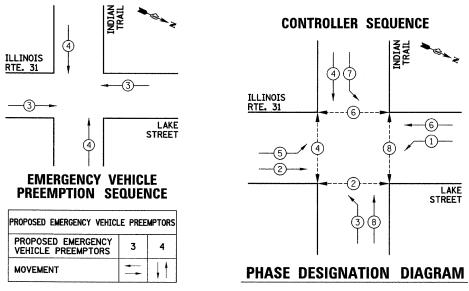
≧ 211+00

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -			TRAFFIC S	SIGNAL	MODI	FICATIO	N PLAN		F.A.U.	SECTION		COUNTY	TOTAL	SHEET
\690_2_sig11b2_indian trail.dgn		DRAWN JMR	REVISED -	STATE OF ILLINOIS			INDI		AIL			RTE.	05 00050 00 7	т.	VANE	SHEETS	NO.
	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION			SHF	ET 2 0	F 2			3902	05-00258-00-	IL CC	ONTRACT I	61	45
	PLOT DATE = 3/11/2010	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		FED. ROAD	DIST. NO. ILLINOI	IS FED. AID PI		NU. (63251







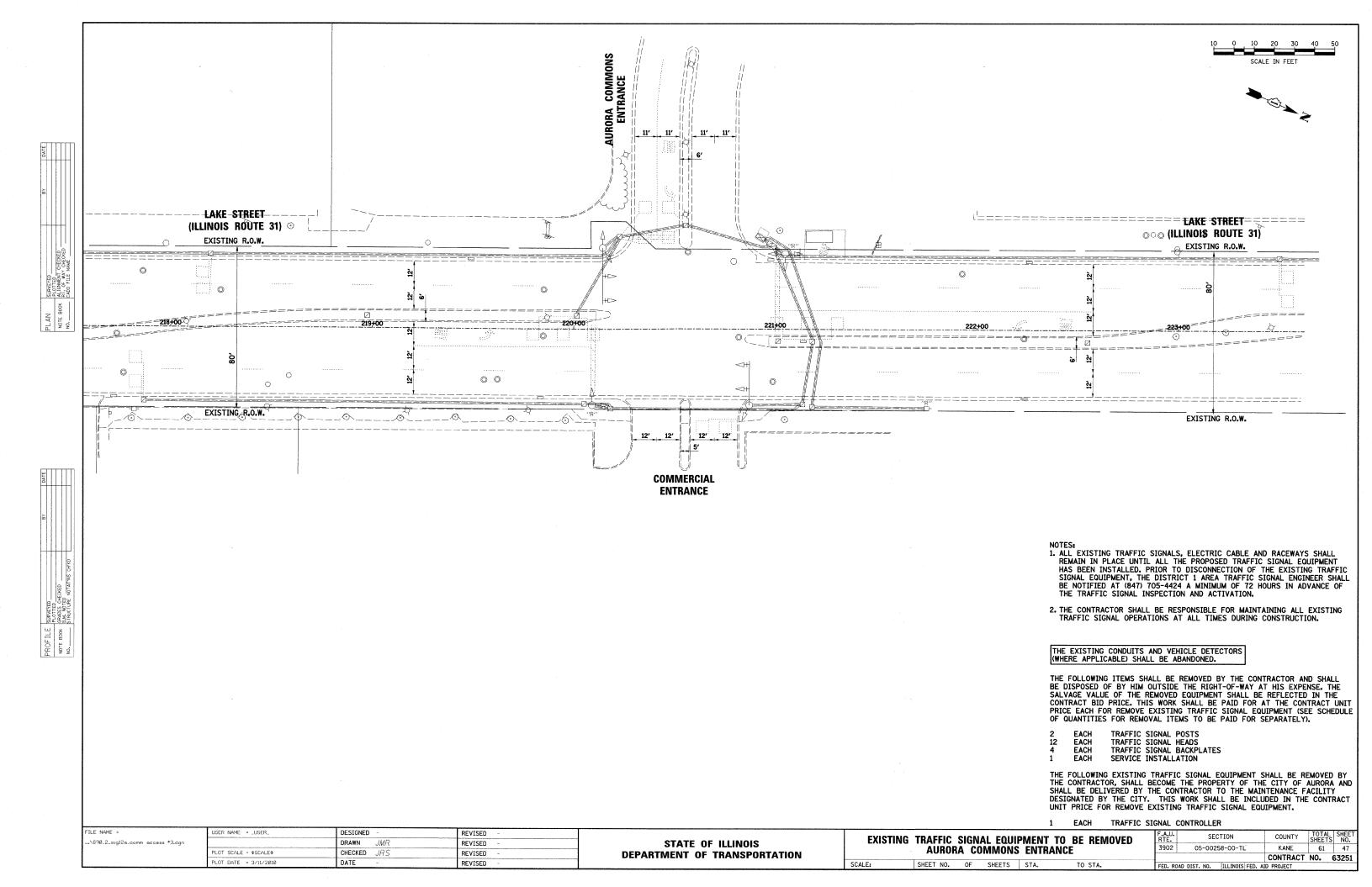


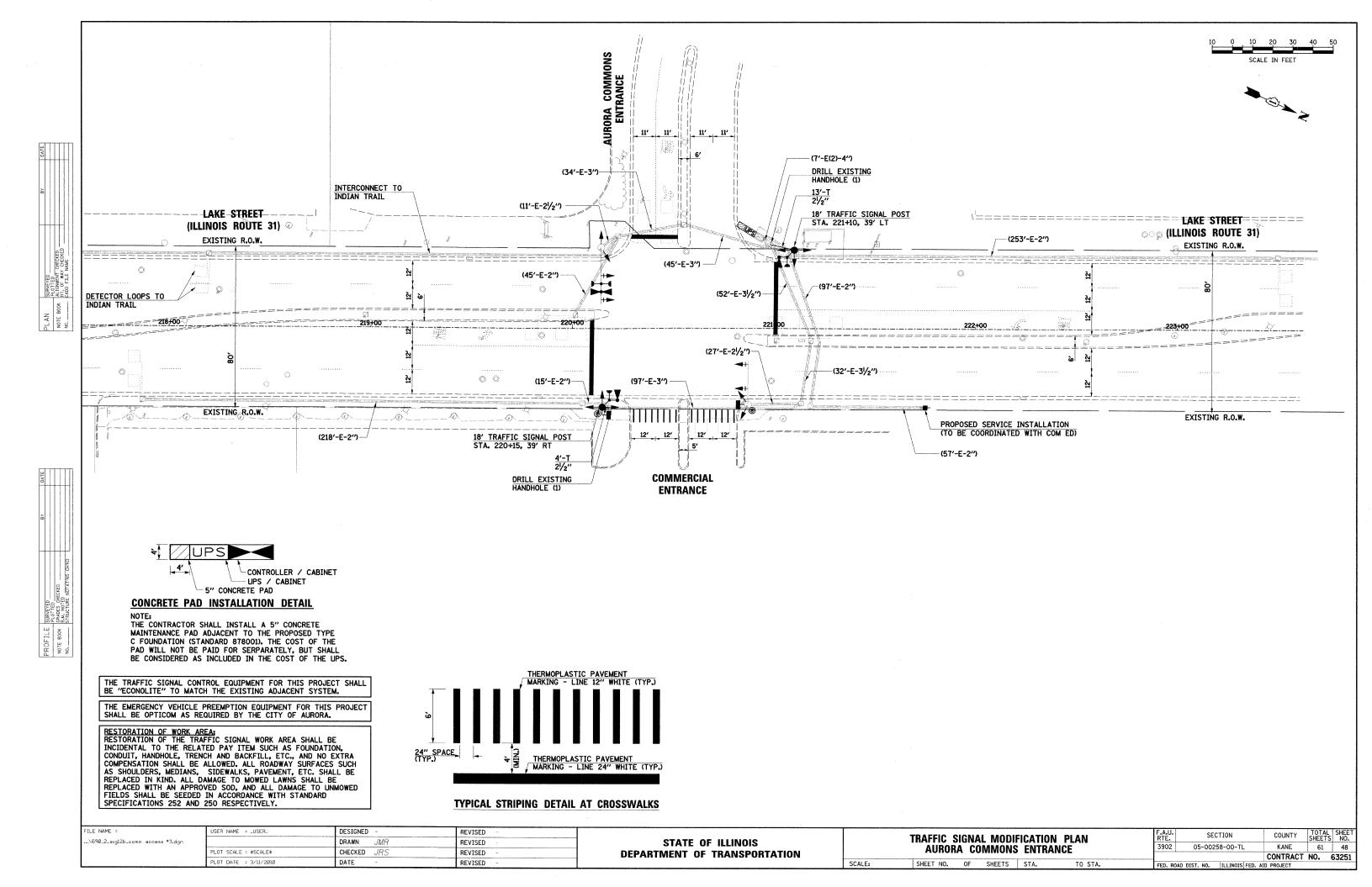
CONTROLLER SEQUENCE LEGEND **◆ *** DUAL ENTRY PHASE **★** SINGLE ENTRY PHASE **♣**OL OVERLAP **▼-*** PEDESTRIAN PHASE

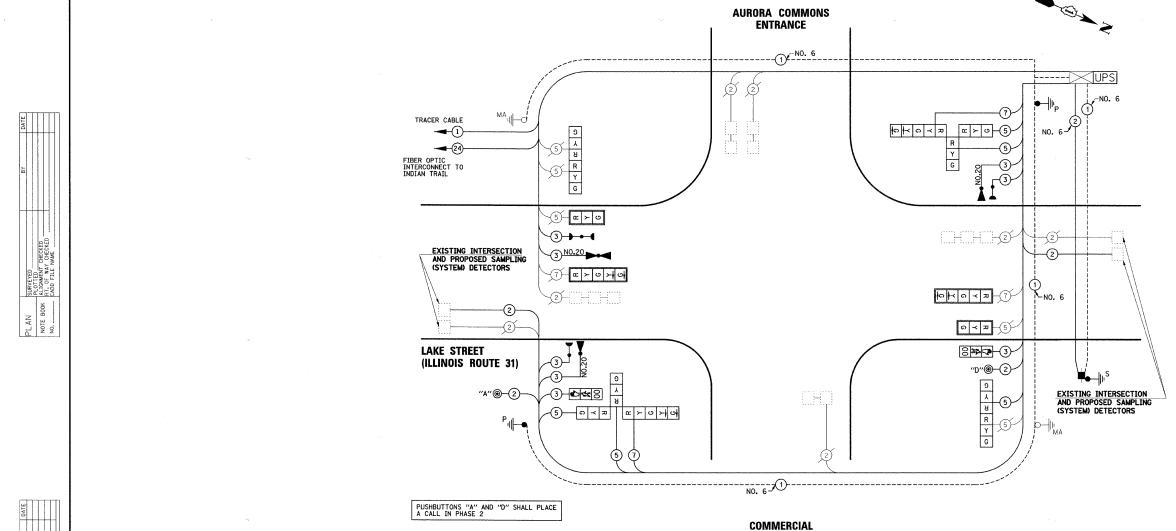
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

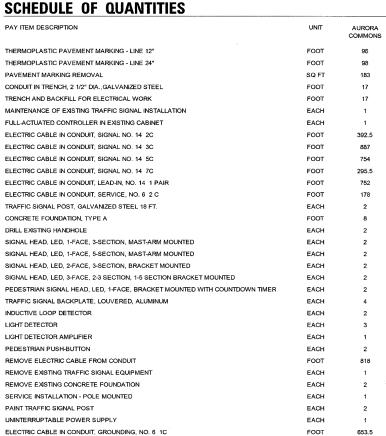
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -		CABLE PLAN AND	F.A.U. SECTION	COUNTY TOTAL SHEET
\69Ø_2_sigllc_indian trail.dgn		DRAWN JMR	REVISED -	STATE OF ILLINOIS	PHASE DESIGNATION DIAGRAM	3902 05-00258-00-TL	KANE 61 46
	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION	INDIAN TRAIL	3302 03 00230 00 1E	CONTRACT NO. 63251
·	PLOT DATE = 3/11/2010	DATE -	REVISED ~		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AI	





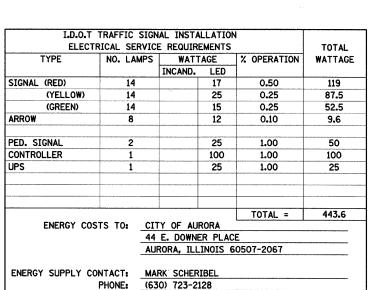




FOOT

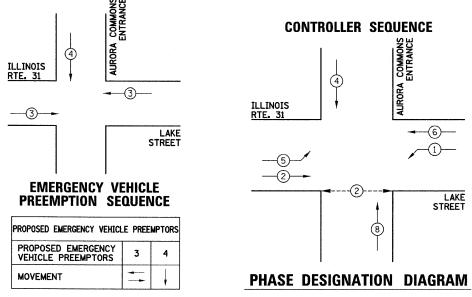
480.5

ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED



COMMONWEALTH EDISON

COMPANY:



CONTROLLER SEQUENCE LEGEND

DUAL ENTRY PHASE

SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERRING TO ASSOCIATED PHASE

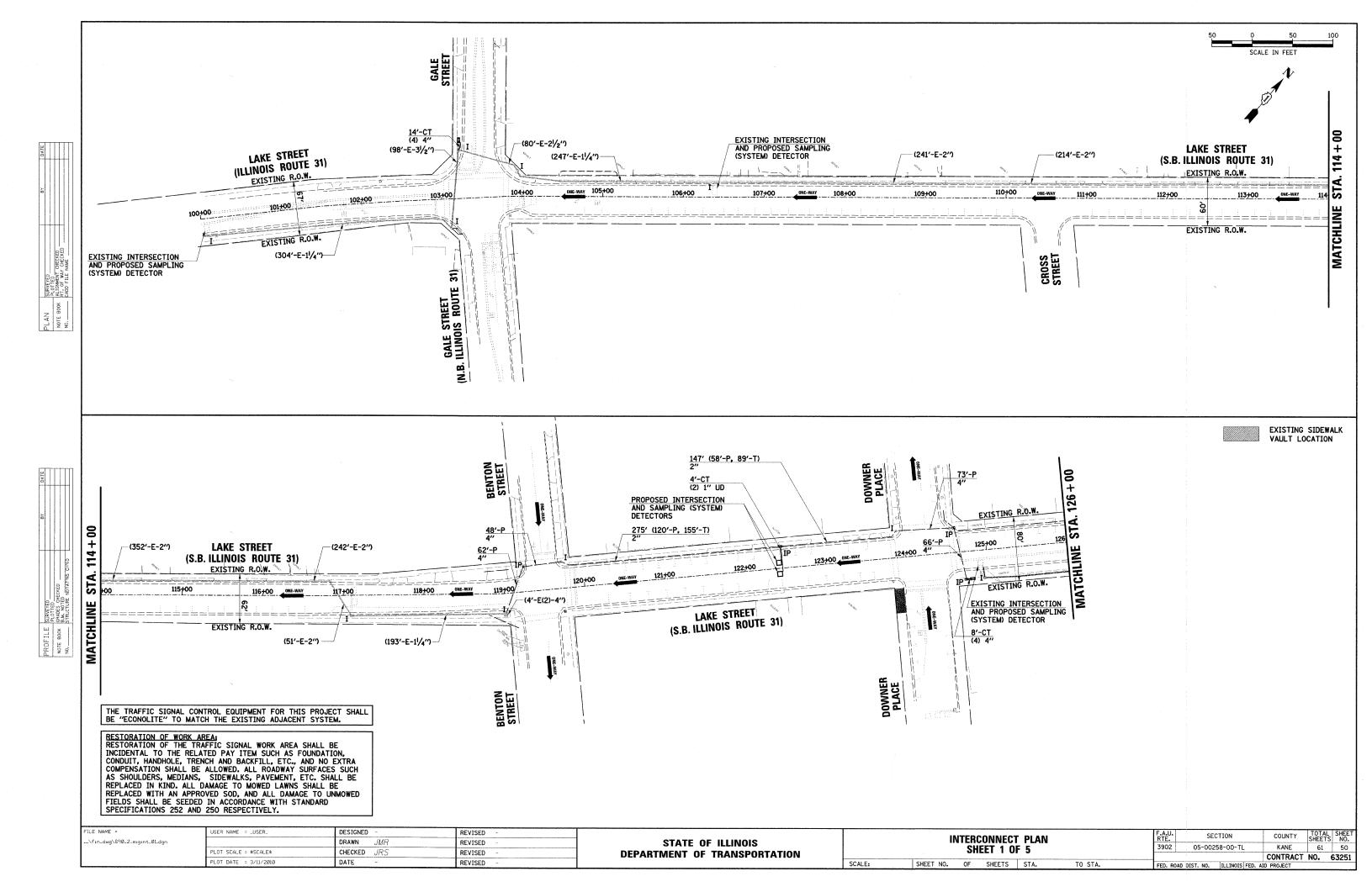
PEDESTRIAN PHASE

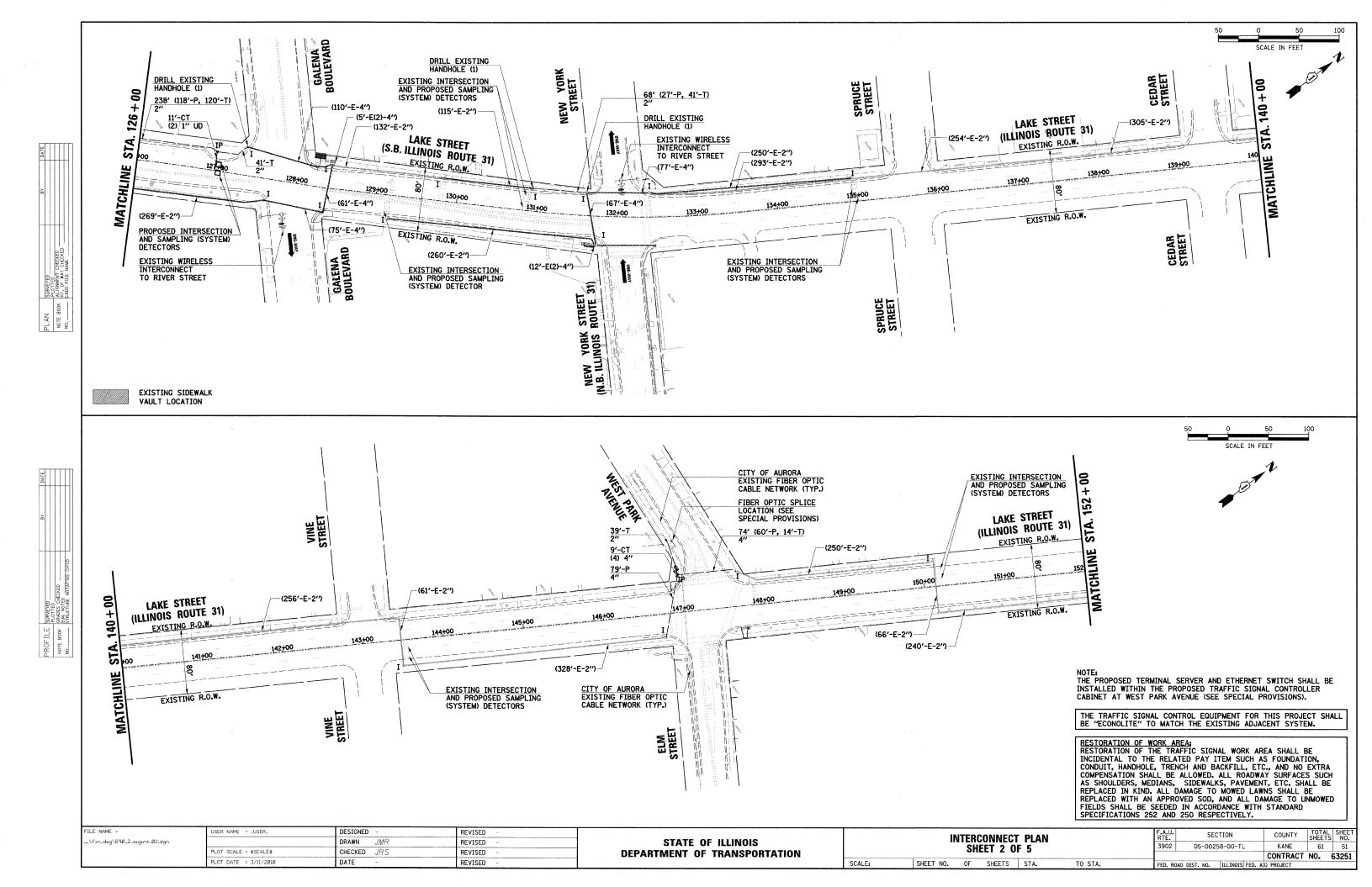
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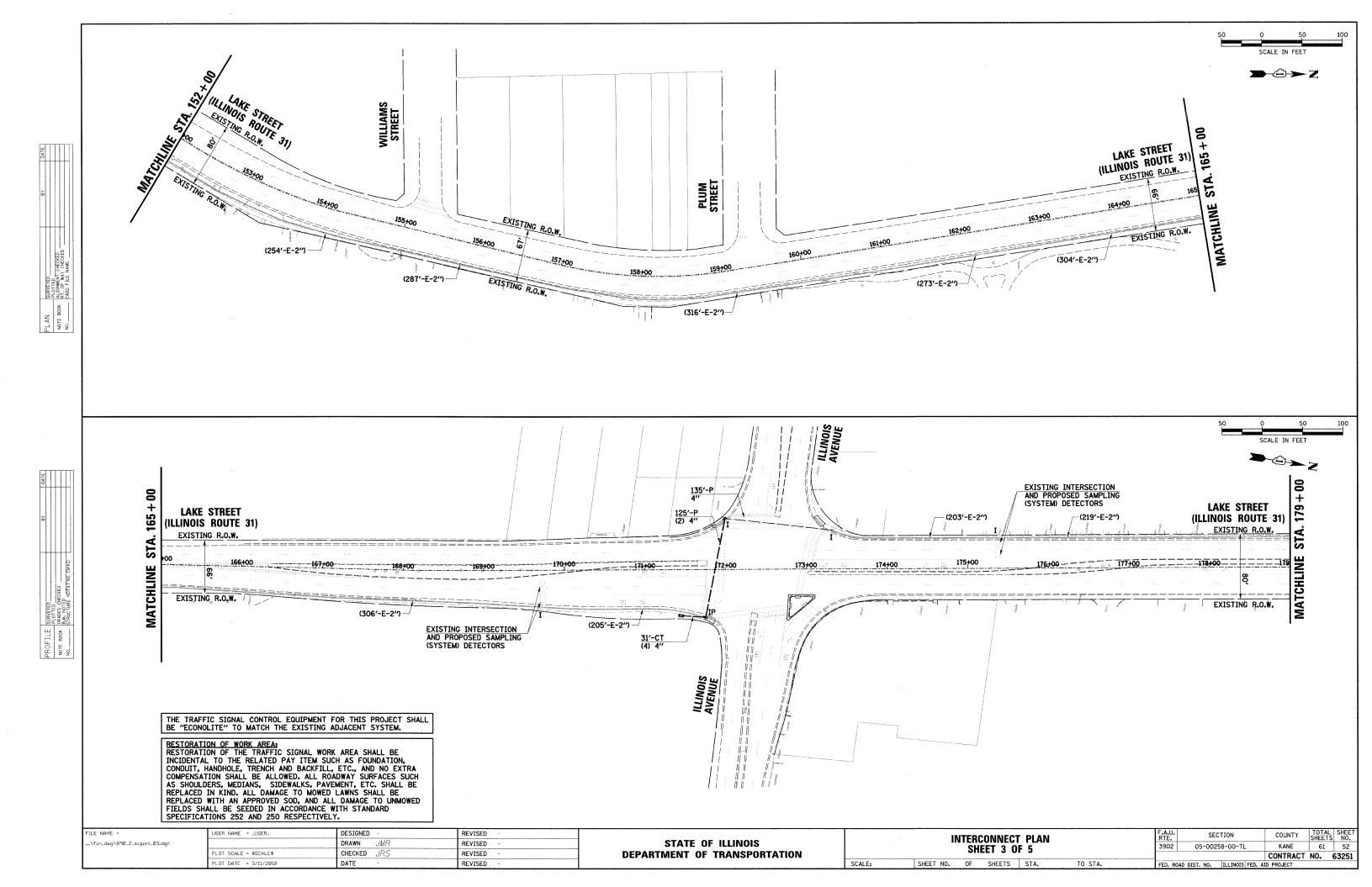
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

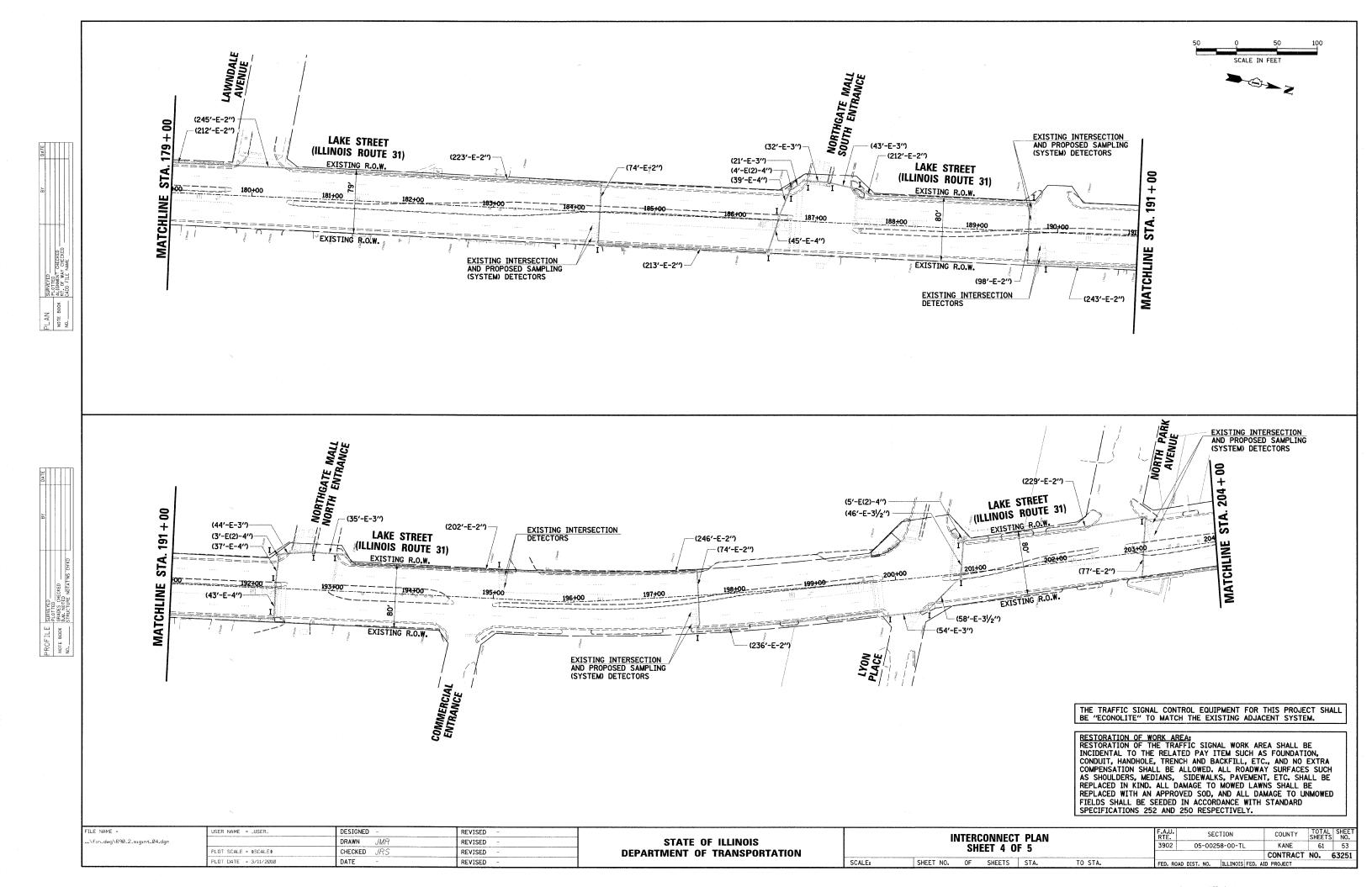
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\690_2_sig12c_comm access #3.dgn	·	DRAWN JMR	REVISED -	STATE OF ILLINOIS	PHASE DESIGNATION DIAGRAM	3902 05-00258-00-TL KANE 61 49
ł	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED ~	DEPARTMENT OF TRANSPORTATION	AURORA COMMONS ENTRANCE	CONTRACT NO. 63251
	PLOT DATE = 3/11/2010	DATE -	REVISED ~		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

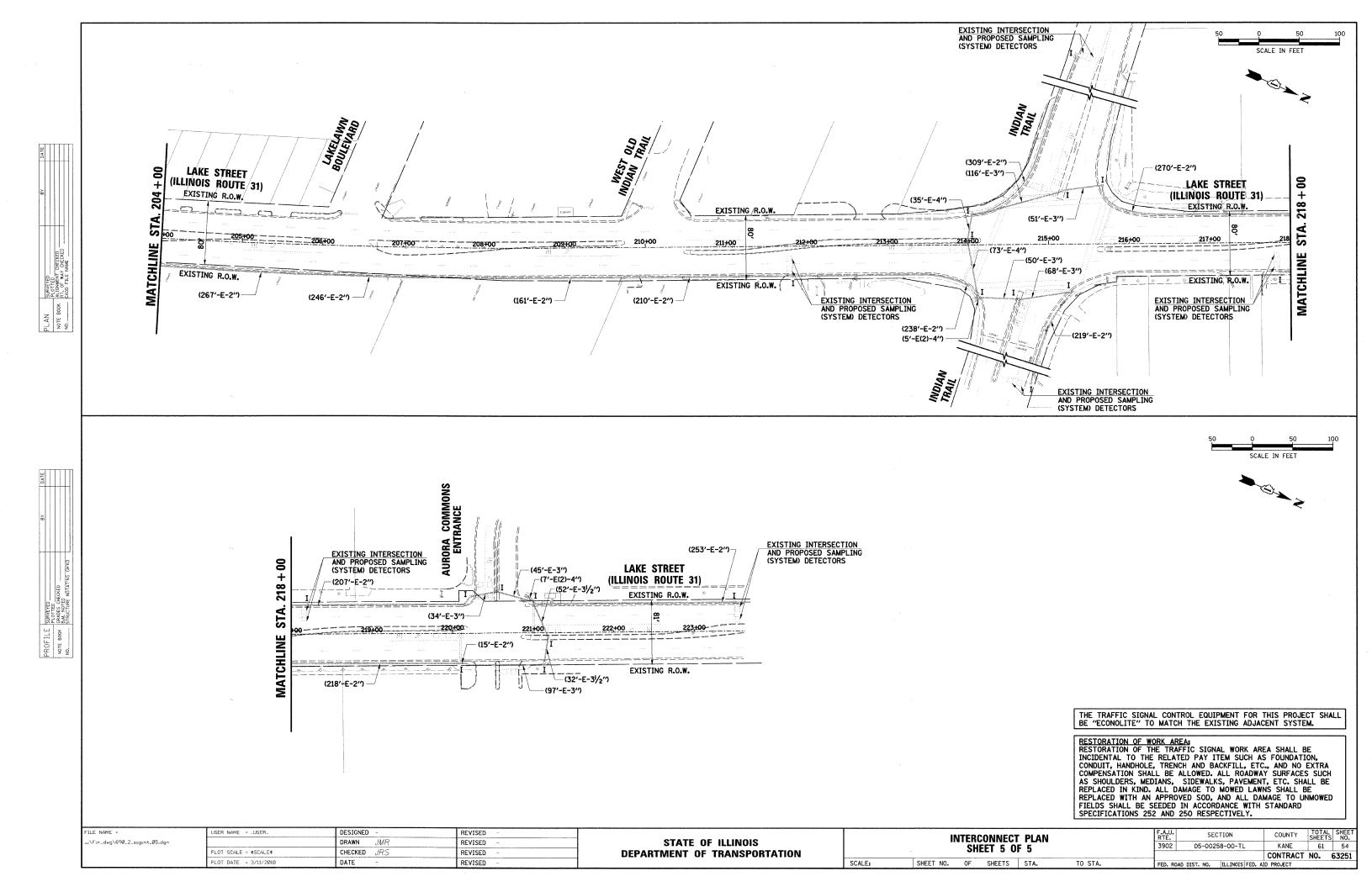
ENTRANCE

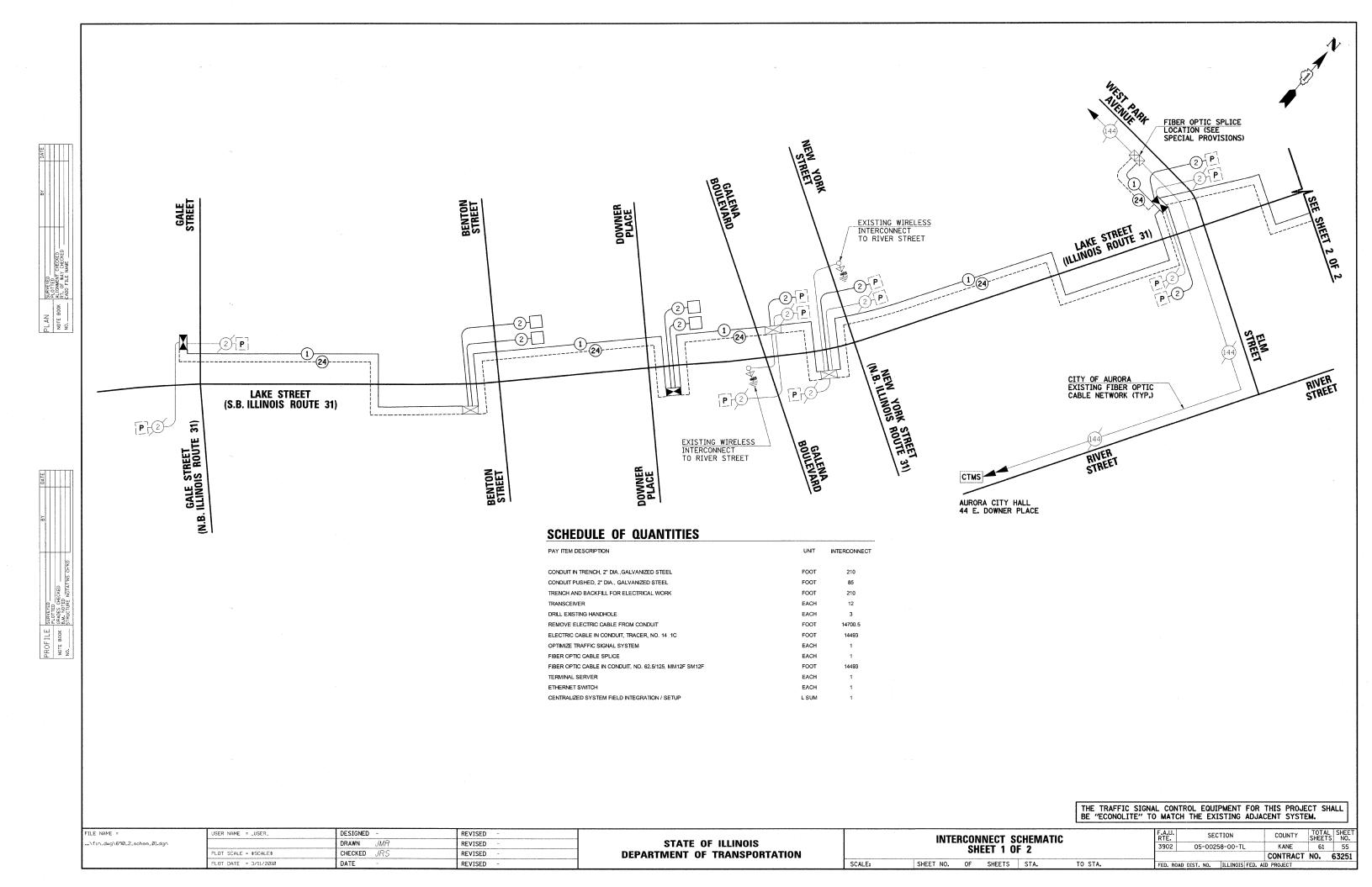


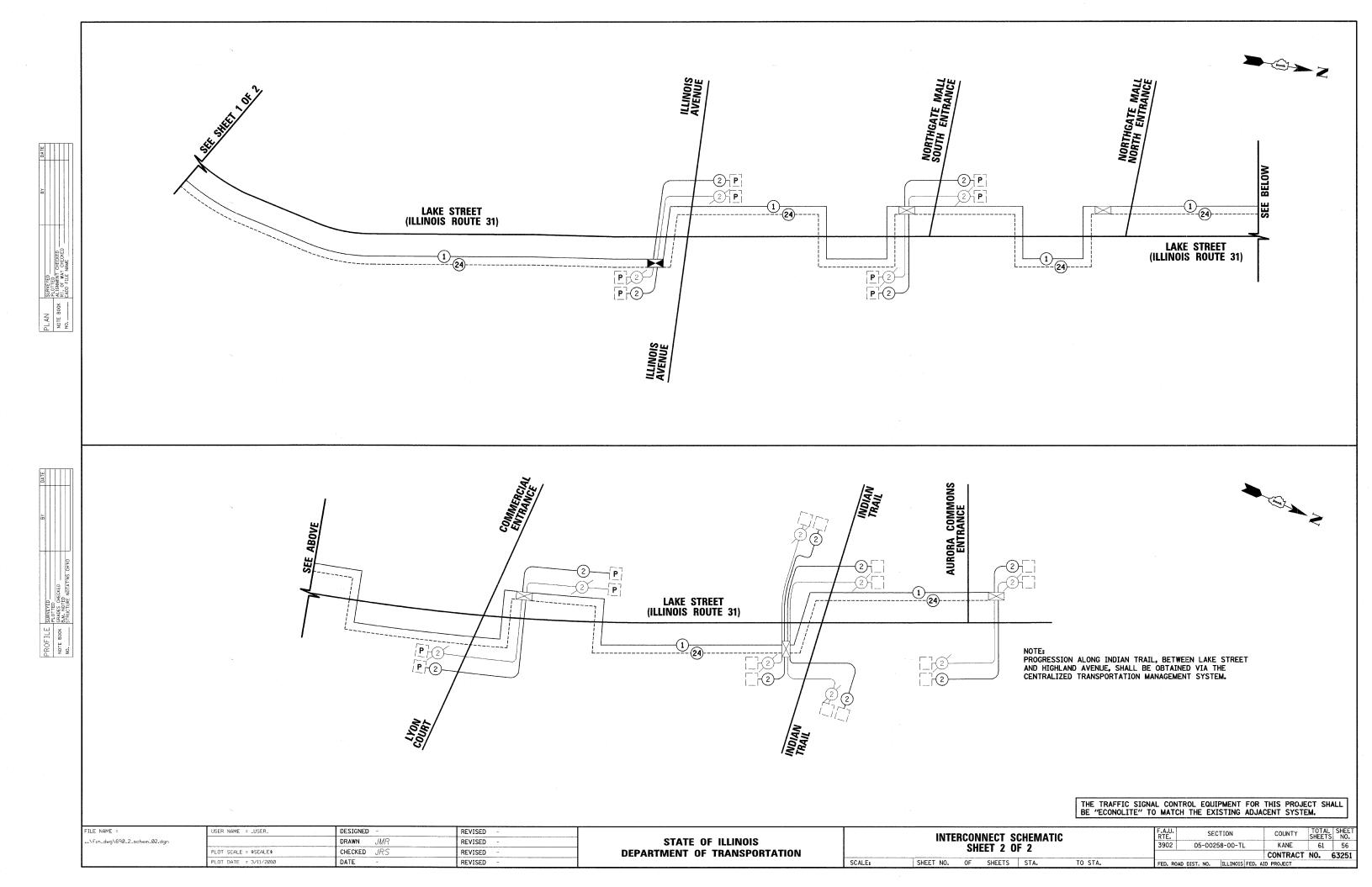


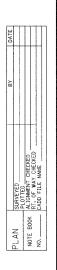




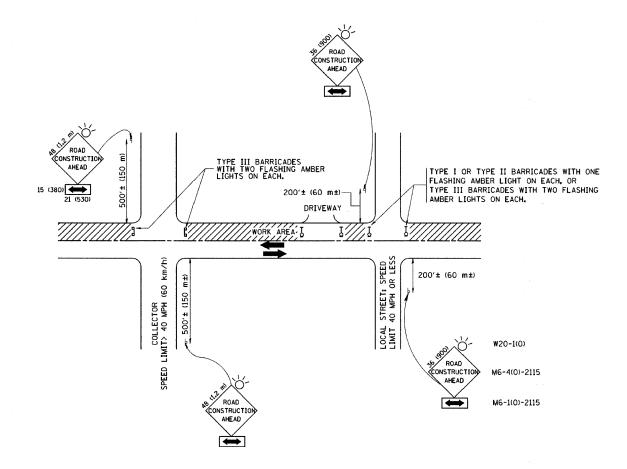












TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

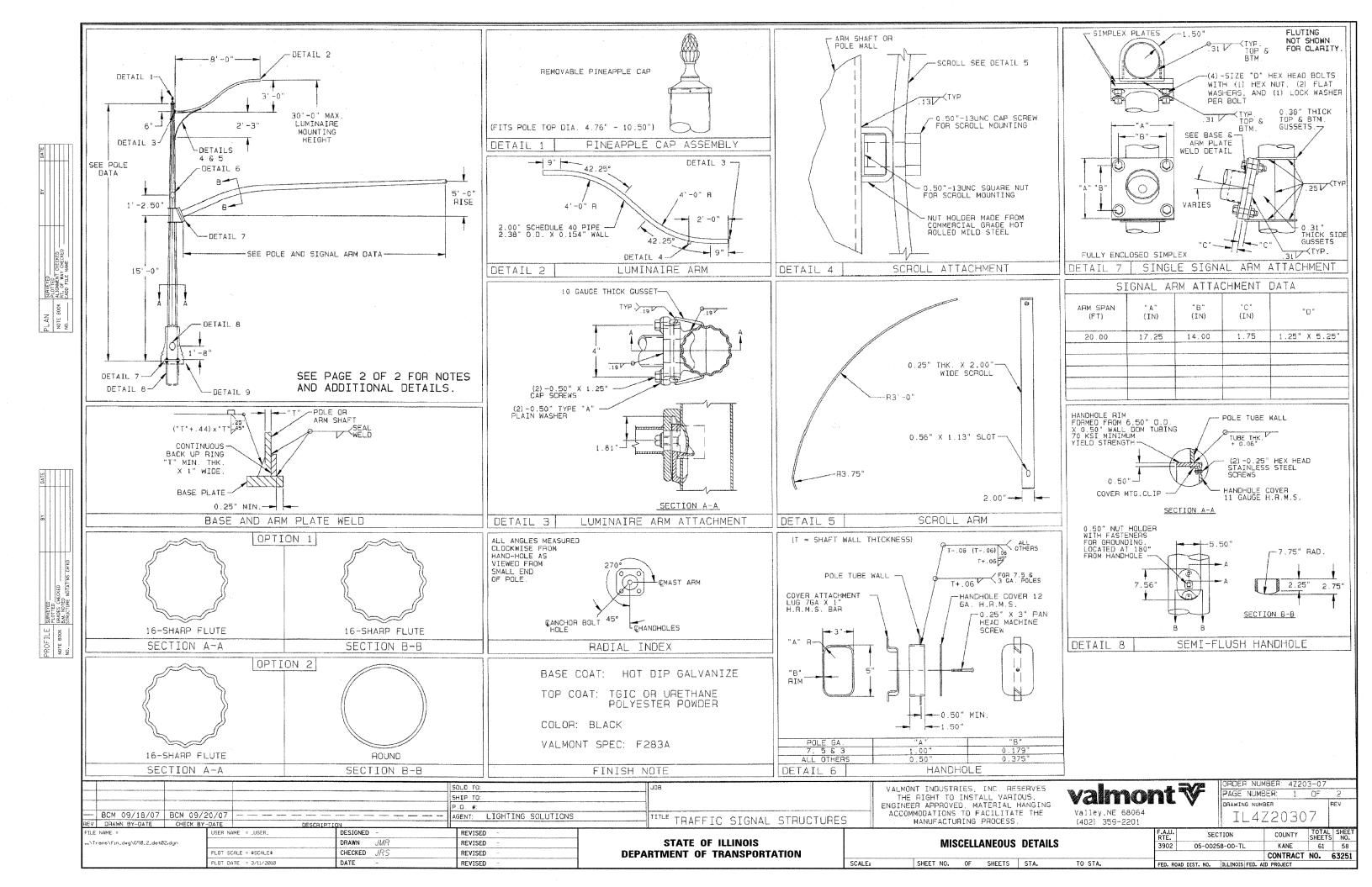
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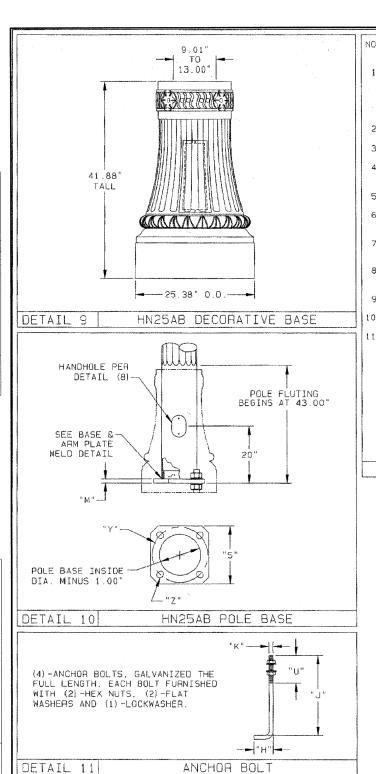
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- 0) ONE ROAD CONSTRUCTION AHEAD SIGN 36 \times 36 (900 \times 900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200'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

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

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\Trans\fin_dwg\690_2_det0l.dgn		DRAWN JMR	REVISED -	STATE OF ILLINOIS	For						3902	05-00258-00-TL	KANE	SHEETS NO.
	PLOT SCALE = \$SCALE\$	CHECKED JRS	REVISED -	DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS				3302	05-00258-00-TE	CONTRACT	NO. 63251		
	PLOT DATE = 3/11/2010	DATE -	REVISED -		SCALE:	SHEET NO.	OF SH	IEETS	STA.	TO STA.	FED. ROA	D DIST. NO. ILLINOIS FED.	AID PROJECT	110. 63231





NOTES: 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 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 M-183 (ASTM: A36). 3. ANCHOR BOLTS-ALL STRUCTURES: ASTM F1554 GR.55 55,000 P.S.I. MINIMUM YIELD STRENGTH. (AASHTO M314) GH.55 55,000 P.S.I. MINIMUM YIELD SHENDIR. (AASHID MSI4)
4. TRAFFIC SIGNAL ARM END CAP SECURED IN PLACE WITH 3
STAINLESS STEEL SET SCREWS. (TRAFFIC SIGNAL ARM END CAP
PROVIDED WITH (2) ADDITIONAL STAINLESS STEEL HEX BOLTS).
5. 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 7. 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 GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).

9. ACCESS HOLES IN AHMS AT SIGNALS TO BE FIELD DRILLED BY CONTRACTOR-LOCATED AS SHOWN IN PLANS.

10. LUMINAIRE ARM SHAFT CONFORMS TO 2" SCHEDULE 40 PIPE W/36,000 PSI MIN. YIELD STRENGTH. SHAFT GAUGE OR THICKNESS ARE AS FOLLOWS: 11 GA.= 0.1196", 7 GA.= 0.1793", 5 GA.= 0.2092", 3 GA.=0.2391", AND 2" SCHED.40 PIPE = 0.154". LOADING AND ALLOMABLE STRESS CRITERIA: 1994 AASHTO
"STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR
SIGNS, LUMINAIRES AND TRAFFIC SIGNALS". STATE OF ILLINOIS GENERAL NOTES

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	POLE TUBE POLE BASE ANCHOR BOLT SIGNAL ARM TUBE														
BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIACLE "Y"- (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	FIXED END DIA. (IN)	GAUGE OR THICK (IN)	SPAN (FT)	LUMINAIRE ARM SPAN (FT)
12.50	8.65	27.50	5	17.00	17.00	1.50	1.75	1.50	54.00	6.00	8.00	9.00	7	20.00	8.00
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			[POLE	ANE	SI	GNAL AR	M D	ATA	- 01	PTIO	N 2			
	POLE	TUBE			P(DLE BAS	E		ANCHOR	BOLT			AL ARM	TUBE	MAXIMUM
BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	H00K "H" (IN)	THREAD LENGTH "U" (IN)	FIXED END DIA. (IN)	GAUĞE OR THICK (IN)	SPAN (FT)	LUMINAIRE ARM SPAN (FT)
12.50	8.65	27.50	5	17.00	17.00	1.50	1.75	1.50	54.00	6.00	8.00	8.00	7	20.00	8.00
														-	

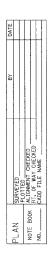
	VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING	valmo
ETRAFFIC SIGNAL STRUCTURES	ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.	Valley,NE 68064 (402) 359-2201

v.NE 68064

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COUNTY TOTAL SHEET NO.
KANE 61 59 FILE NAME = USER NAME = _USER_ DESIGNED REVISED SECTION ..\Trans\fin_dwg\690_2_det03.dgn DRAWN JMF REVISED STATE OF ILLINOIS **MISCELLANEOUS DETAILS** 3902 05-00258-00-TL CHECKED JRS REVISED **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = \$SCALE\$ CONTRACT NO. 63251 SCALE: SHEET NO. OF SHEETS STA. TO STA. PLOT DATE = 3/11/2010 DATE REVISED

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* PER MANUFACTURERS SPECIFICATIONS FOR THE CITY OF AURORA.

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

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THESE SIGNS SHALL BE INSTALLED AT THE LOCATIONS INDICATED IN THE PLANS. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

JSER NAME = _USER_

PLOT DATE = 3/11/2010

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

						SE	CONI) LE	ETTE	ER .							
		a c	d e	b h		f	W			8	†	٧	у	,	<	2	<u>.</u>
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
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	В	14	1 ⁵	20	2 ¹	14	15	1 ¹	12	14	15	12	14	1 ²	14	16	17
	CEG	14	1 ⁵	20	2 ¹	12	14	O _e	10	12	14	12	14	14	15	14	1 ⁵
F	DOQR	14	15	20	2 ¹	14	15	O _e	10	1 ²	14	12	14	14	15	14	15
I R	F	05	06	14	15	06	10	05	O _e	06	10	06	10	06	10	1 ¹	12
S	HIMN	20	2 ¹	22	24	20	21	14	15	16	17	16	17	20	2 ¹	20	2 ¹
	JU	20	21	20	2 ¹	16	17	14	15	1.6	17	16	17	16	17	20	2 ¹
E	ΚL	11	1 ²	16	17	11	1 ²	05	06	11	12	1 ¹	1 ²	11	1 ²	1 ²	14
T	Р	12	14	14	15	12	14	05	06	11	12	11	1 ²	1 ²	14	1 ²	14
Ε	S	12	14	16	17	12	14	O _e	10	12	14	12	14	12	14	1 ²	14
R	Т	11	1 ²	16	17	06	10	06	1 ⁰	.11	12	11	1 ²	1 ¹	12	12	14
	٧	06	1º	14	15	11	12	06	10	12	14	12	14	12	14	12	14
	Y	05	06	14	1 ⁵	06	10	05	06	05	07	05	O _e	06	1 ⁰	11	1 ²
	Z	1 ⁶	17	2 ²	24	16	17	12	14	16	17	16	17	16	17	20	2 ¹

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

						SE	CON	D LE	ETTE	ER							
		a c g (d e	b h m n į	iki	f	w		j	8	t	٧	у)	(2	2
	SERIES	C	D	C	D	С	D	O	D	С	D	O	D	C	D	O	D
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R	bfkops	12	14	16	17	11	12	05	06	11	12	1 ¹	12	12	14	12	14
T	Се	12	14	16	17	12	14	O _e	1º	12	14	1 ²	14	1 ²	14	1 ²	14
Ļ	r	O _e	10	12	14	O _e	10	O3	O3	05	06	05	O _e	O _e	10	06	10
E	† z	12	14	16	17	12	14	O _e	1 ⁰	1 ¹	12	11	12	12	14	12	14
T	v y	1 ¹	1 ²	14	15	11	1 ²	05	O _e	06	10	06	10	11	1 ²	11	1 ²
R	W	11	1 ²	14	15	11	1 ²	05	O _e	11	12	11	12	11	1 ²	12	14
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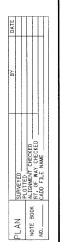
NUMBER TO NUMBER SPACING CHART 8 INCH SERIES "C & D"

			SECOND LETTER																		
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F	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	C.	D	С	D	С	D	С	D
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R S	1	20	2 ¹	20	21	20	2 ¹	16	17	14	15	20	21	20	21	14	1 ⁵	20	2 ¹	20	2 ¹
T	2 3 4	14	1 ⁵	14	1 ⁵	14	15	12	14	12	14	14	15	14	1 ⁵	11	1 ²	16	17	14	15
N	5	14	15	14	15	14	15	11	12	11	12	14	15	14	1 ⁵	11	1 ²	14	15	14	15
М	6	16	17	14	15	14	15	12	15	12	14	14	15	14	15	11	12	14	15	14	15
B E	7	12	14	12	14	14	15	12	15	05	06	1 ²	14	14	15	11	12	14	1 ⁵	12	14
R	8	16	17	16	17	14	15	12	15	1 ²	14	14	15	16	17	1 ²	14	16	17	14	15

LE RS	6 INCH CASE LE		8 INCH CASE LE	UPPER TTERS	NATION OF THE PROPERTY OF THE	6 INCH LOWER CASE LETTERS			
T _E	SER	IES	SER	IES	E	SERIES			
'`s	С	D	C	D	'`s	С	D		
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В	3 ²	40	43	5 ³	ь	35	42		
С	3 ²	40	43	5 ³	С	3 ⁵	4 ¹		
D	3 ²	40	43	5 ³	d	35	42		
Ε	30	3 ⁵	40	47	е	35	42		
F	30	35	40	47	f	2 ³	2 ⁶		
G	3 ²	40	43	5 ³	g	35	42		
Н	3 ²	40	43	5 ³	h	35	4 ²		
I	07	07	1 ¹	1 ²	ī	11	11		
J	30	36	40	50	j	20	2 ²		
K	3 ²	41	43	54	k	3 ⁵	4 ²		
L	30	35	40	47	ı	1 ¹	1 ¹		
М	37	45	5 ¹	6 ¹	m	60	70		
N	3 ²	40	43	5 ³	n	35	42		
0	34	42	45	5 ⁵	0	36	43		
Р	3 ²	40	43	5 ³	Р	35	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		
T	30	35	40	47	+	27	3 ²		
U	3 ²	40	43	5 ³	u	35	42		
٧	3 ⁵	44	47	6 ₀	٧	42	47		
W	44	5 ²	60	70	w	5 ⁵	64		
Х	34	40	45	53	×	44	5 ¹		
Y	36	50	5º	6 ⁶	У	46	53		
Z	3 ²	40	43	53	Z	3 ⁶	43		

NU _{MBER}	6 INCH	SERIES	8 INCH SERIES					
"B _{ER}	С	D	С	D				
1	1 ²	14	1 ⁵	20				
2	3 ²	40	43	53				
3	3 ²	40	43	53				
4	3 ⁵	43	47	57				
5	3 ²	40	43	53				
6	3 ²	40	43	5 ³				
7	3 ²	40	43	5 ³				
8	3 ²	40	43	5 ³				
9	3 ²	40	43	53				
0	3 ⁴	42	45	5 ⁵				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS						F.A.U. RTE. 3902	SECTION 05-00258-00-TL	COUNTY	TOTAL SHEETS 61	SHEET NO. 60
 DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED. A		NO. (63251



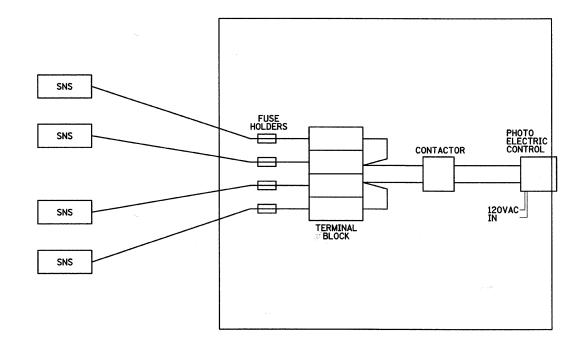
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PLOT DATE = 3/11/2010



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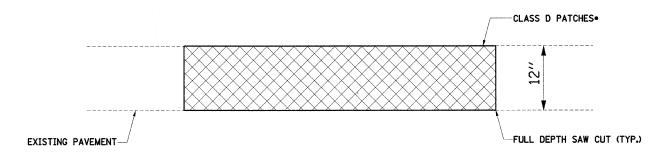
LED STREET NAME SIGNS - PHOTOCELL WIRING DETAIL

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PAVEMENT PATCHING

* THE PATCH SHALL CONSIST OF THE FOLLOWING: 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70 10 1/2" HOT-MIX ASPHALT ASPHALT BINDER COURSE, IL-19.0, N70 4" SUB-BASE GRANULAR MATERIAL, TYPE B

NOTE: THE SAW CUT AND AGGREGATE SUBBASE SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PATCH.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT NO. 63251