FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

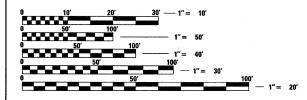
CONGESTION MITIGATION AIR QUALITY
FAP 360 (FARNSWORTH AVENUE)
FROM EAST NEW YORK STREET TO MOLITOR ROAD
TRAFFIC SIGNAL INTERCONNECT
SECTION 09-00289-00-TL
PROJECT NO. CMM-9003 (612)
KANE COUNTY

JOB NO.: C-91-455-10

THIS IMPROVEMENT IS LOCATED IN THE CITY OF AURORA

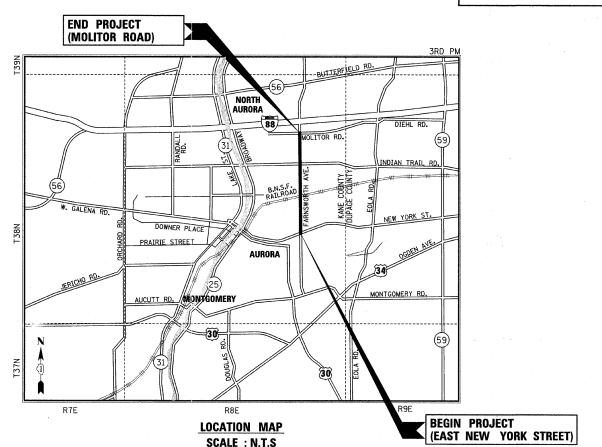
EXISTING ADT (2010) = 23,400 POSTED / DESIGN SPEED = 30-35 M.P.H. DESIGN DESIGNATION = MAJOR ARTERIAL

J.U.L.I.E.
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: 63627



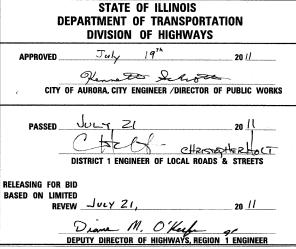
PROJECT GROSS LENGTH = 14,100.00 FEET = 2.67 MILES R. S. PROJECT NET LENGTH = 14,100.00 FEET = 2.67 MILES 062-060033

JEFFREY R. STANKO, P.E. NÓ. 062-060033 EXPIRES: 11/30/2011 HR GREEN, INC.
 F.A.P. RTE.
 SECTION
 COUNTY SHEET NO.
 SHEET NO.

 360
 09-00289-00-TL
 KANE
 37
 1

 CONTRACT NO. 63627





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651 PRAIRIE POINTE, SUITE 201 | YORKVILLE, ILLINOIS 60560 Phone: 630.553.7560 | Toll Free: 800.728.7805 | Fax: 630.553.7646 | HRGreen.com ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

| PLAN | SIRREFED | BY | DATE | DATE | | DATE |

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1	1L E SURVEYED	
	PLOTTED	
NO CK		
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2	INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS
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12	CABLE PLAN AND PHASE DESIGNATION DIAGRAM - EAST NEW YORK STREET
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33 - 35	INTERCONNECT SCHEMATIC
36	TRAFFIC CONTROL AND PROTECTION DETAIL
37	FIBER OPTIC SPLICE DETAIL

LIST OF HIGHWAY STANDARDS

424001 - 05 CURB RAMPS FOR SIDEWALKS

701501 - 06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

701601 - 07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

701602 - 05 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL TURN LANE

701606 - 07 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN

701701 - 07 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

825011 - 01 LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240 V

857001 - 01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

862001 - 01 UNINTERRUPTABLE POWER SUPPLY (UPS)

873001 - 02 TRAFFIC SIGNAL GROUNDING & BONDING

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

886006 - 01 TYPICAL LAYOUTS FOR DETECTION LOOPS

NDEX	0F	Sŀ	IEETS	/	LIST	0F	HIGHWAY	STAI	NDARDS	
	SHE	ET	NO.	0F	SHE	ETS	STA.	TO	STA.	

FED. RC	AD DIST. NO. ILLINOIS	ED. AID PROJECT		
		CONTRACT	NO. (53627
360	09-00289-00-TL	KANE	37	2
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1								
) B			TRAFFIC CONTROL AND PROTECTION, STANDARD 701801										
				L SUM	1								
		72000100	SIGN PANEL - TYPE 1	SQ FT	15							15	
		72000200	SIGN PANEL - TYPE 2	SQ FT	21							21	
		80400100	ELECTRIC SERVICE INSTALLATION	EACH	1							1	
CKED		80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	6		1	1	1	1	1	1	
CHE NAME		81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	3669							34	3635
EYED NAMEN PFILE FILE		81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	41							41	
SURVEYED PLOTTED ALIOWART CHECKED RT. OF WAY CHECKED CADD FILE NAME		81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	65							65	
300×		81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	64							64	
PLAN NOTE BOOK	·	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1412							04	
0 22		81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	7								1412
			CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT				***					
			CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL									7	
				FOOT	177							177	
			CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	1350								1350
			JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10"	EACH	2								2
		81400100	`	EACH	14							3	11
	· ·	81400300	DOUBLE HANDHOLE	EACH	1							1	
		81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	706							705.5	
	-	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3821			-				186	3635
		82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4							4	
DATE		82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1							1	
		85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	7	1	1	1	1	1	1	1	······
		85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	3							3	
à9		85100800	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	2							2	
		85100900	PAINT NEW COMBINATION MAST AND POLE, OVER 40 FOOT	EACH	2		1		***************************************			2	
		x 8510225	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	6		1	1	1	1	1	1	
l le		86200120	UNINTERRUPTABLE POWER SUPPLY	EACH	6		1	1	1	1	1	1	
S CH's		86400100	TRANSCEIVER - FIBER OPTIC	EACH	6								
DTATAN	×	87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	15662						, , , , , , , , , , , , , , , , , , ,		6
S S S	·		GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	28			4	6				15661.5
PROFILE SURWEYED PLOTTED PLOTTED ONTE BOOK GRADES CHECKED NO. STRUCTURE NOTATY			ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	15662		O .		0	4	8		
ST S ST			ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C										15661.5
11_B			ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6261		1284	949	1136	1409	1280	202.5	
NOTE NO.			ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	7793		1504.5	1247.5	1390	1653.5	1336	662	
				FOOT	1174							1173.5	
			ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1439					-		1438.5	ALTERA .
			ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5722		1162	1047	1206.5	1151	1155.5		
			ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 6 PAIR	FOOT	706							705.5	
		ı	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	377		49.5	37.5	170.5	28.5	25.5	65	
		87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	3350		542.5	466.5	660.5	623.5	547.5	509	
	86		TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3							3	
		87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	2							2	
		87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1							1	
		87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1						-	1	
		87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12			-				12	
	e ^c	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4							4	
												·	

TOTAL E. NEW YORK STREET

UNIT

SQ FT

SQ FT

CAL MO

L SUM

L SUM

L SUM

L SUM

LIBERTY STREET

FRONT STREET

SHEFFER ROAD

INDIAN TRAIL

RECKINGER ROAD

MOLITOR ROAD

INTERCONNECT

395

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Illnois Professional Design Firm
#184-001322

USER NAME = Mheller	DESIGNED JRS	REVISED -
	DRAWN JRS	REVISED -
PLOT SCALE =	CHECKED APS .	REVISED -
PLOT DATE = 7/1/2011 .	DATE -	REVISED -
		

PAY ITEM DESCRIPTION

67000500 ENGINEER'S FIELD OFFICE, TYPE B

44000600 SIDEWALK REMOVAL

67100100 MOBILIZATION

42400300 PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH

70102620 TRAFFIC CONTROL AND PROTECTION, STANDARD 701501

70102625 TRAFFIC CONTROL AND PROTECTION, STANDARD 701606

70102630 TRAFFIC CONTROL AND PROTECTION, STANDARD 701601

70102632 TRAFFIC CONTROL AND PROTECTION, STANDARD 701602

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE:

SUMMARY OF QUANTITIES							
SHEET NO. OF SHEETS STA. TO STA.	FED.	ROAD					

FED. RO	AD DIST.	NO. ILLINO	IS FED.	AID PROJECT		
			CONTRACT	NO.	63627	
360	09-	-00289-00-	KANE	37	3	
F.A.P. RTE.		SECTION	COUNTY	SHEETS	SHEET NO.	

0005							<u> </u>	r	 		
CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	E. NEW YORK STREET	LIBERTY STREET	FRONT STREET	SHEFFER ROAD	INDIAN TRAIL	RECKINGER ROAD	MOLITOR ROAD	INTERCONNECT
				0021	0021	0021	0021	0021	0021	0021	0021
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48							48	
87900200	DRILL EXISTING HANDHOLE	EACH	9								9
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH								7	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4							4	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5.							5	
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		· · · · · · · · · · · · · · · · · · ·	4		2		2	
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	17		4	2	4	3	4		
					*		4	,	4		
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12							12	
88500100	INDUCTIVE LOOP DETECTOR	EACH	52		8	9	10	15	10		
88600100	DETECTOR LOOP, TYPE I	FOOT	200		40	40	40	40	40		
88700200	LIGHT DETECTOR	EACH	2							2	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	14	2	2	2	2	2	2	2	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	42		8	8	8	8	8	2	
89502215	MODIFY EXISTING CONTROLLER FOUNDATION	EACH	5		1	1	1	1	1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	30078		1931	1585	2256.5	2456	1981.5	7259.5	12608
								· · · · · · · · · · · · · · · · · · ·			12000
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6		1	1	1	1	1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	9							9	
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1							1	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9							9	
		T								3	
X0323924	SYSTEM IMPLEMENTATION, EQUIPMENT INTEGRATION AND SUPPORT	L SUM	1								
X0324256	FIBER OPTIC CABLE SPLICE	EACH	1								1
X0326266	ETHERNET SWITCH	EACH	2						1		1
X0326812	CAT 5 ETHERNET CABLE	FOOT	955		146.5	242.5	197.5	188.5		180	
					170.0	272.0	107.0	100.5			
X0326885	VIDEO DETECTION SYSTEM	EACH	1		4-11-11-11-11-11-11-11-11-11-11-11-11-11	<u> </u>				1	
X8570000	SMART TRAFFIC MONITORING SYSTEM	L SUM	1								
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	266							265.5	
X8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	13			9	4				
X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT					1			····		
		EACH	3			1	. 2				
X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	5			1	4				
XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	5		1	1	1	1		1	
XX007952	TERMINAL SERVER	EACH	1				~····				1
XX007989	SIGNAL HEAD, LED, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	5			1	4				
							4				
XX007993	CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	L SUM	1							-	1
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1								1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1						www.n		
XX008565	EVP CONFIRMATION BEACON, LED RETROFIT	EACH	10		2	2	2	2	. 2		
2,700,000						-					

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HRGreen.com

Blinds Professional Design Firm

#194-001322

JSER NAME = MFeller DESIGNED JRS REVISED DRAWN JRS REVISED PLOT SCALE = CHECKED APS REVISED DATE REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

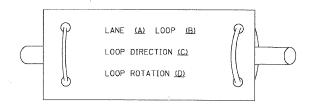
SCALE:

SUMMARY OF QUANTITIES SHEET NO. OF SHEETS STA. TO STA.

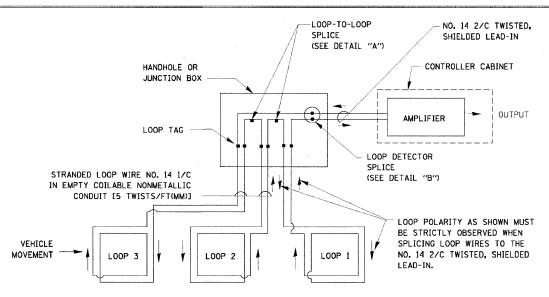
LOOP DETECTOR NOTES

- 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
- 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

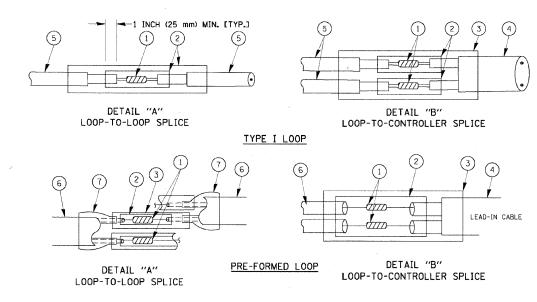


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

- 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

FILE NAME =	USER NAME = kanthaphixaybo	DESIGNED -	DAD	REVISED	-
c:\pw_work\PWIBOT\KANTHAPHIXAYBC\dØi126	4\traffic_lagend_v7.dgn	DRAWN -	BCK	REVISED	-
1	PLOT SCALE = 20.00000 ′/ IN.	CHECKED -	DAD	REVISED	-
	PLUI DAIL = 18/6/2009	DATE -	10/28/09	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONF	F.A. RTE.	SECT
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	360	09-00289
CALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. ROA	AD DIST. NO. I

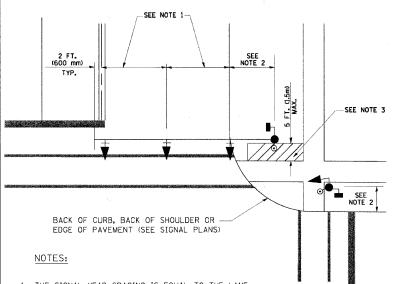
COUNTY TOTAL SHEE SHEETS NO. KANE 37 5

CONTRACT NO. 63627

KANE

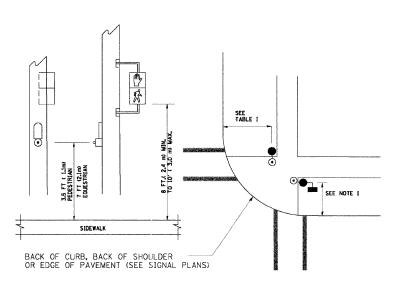
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



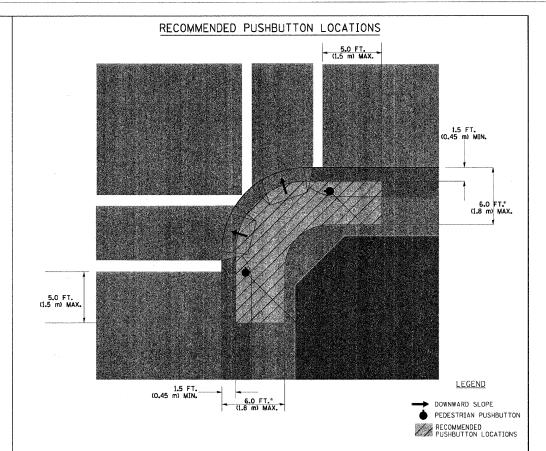
- THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. 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 BUILTON 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."



- 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,

HRGreer

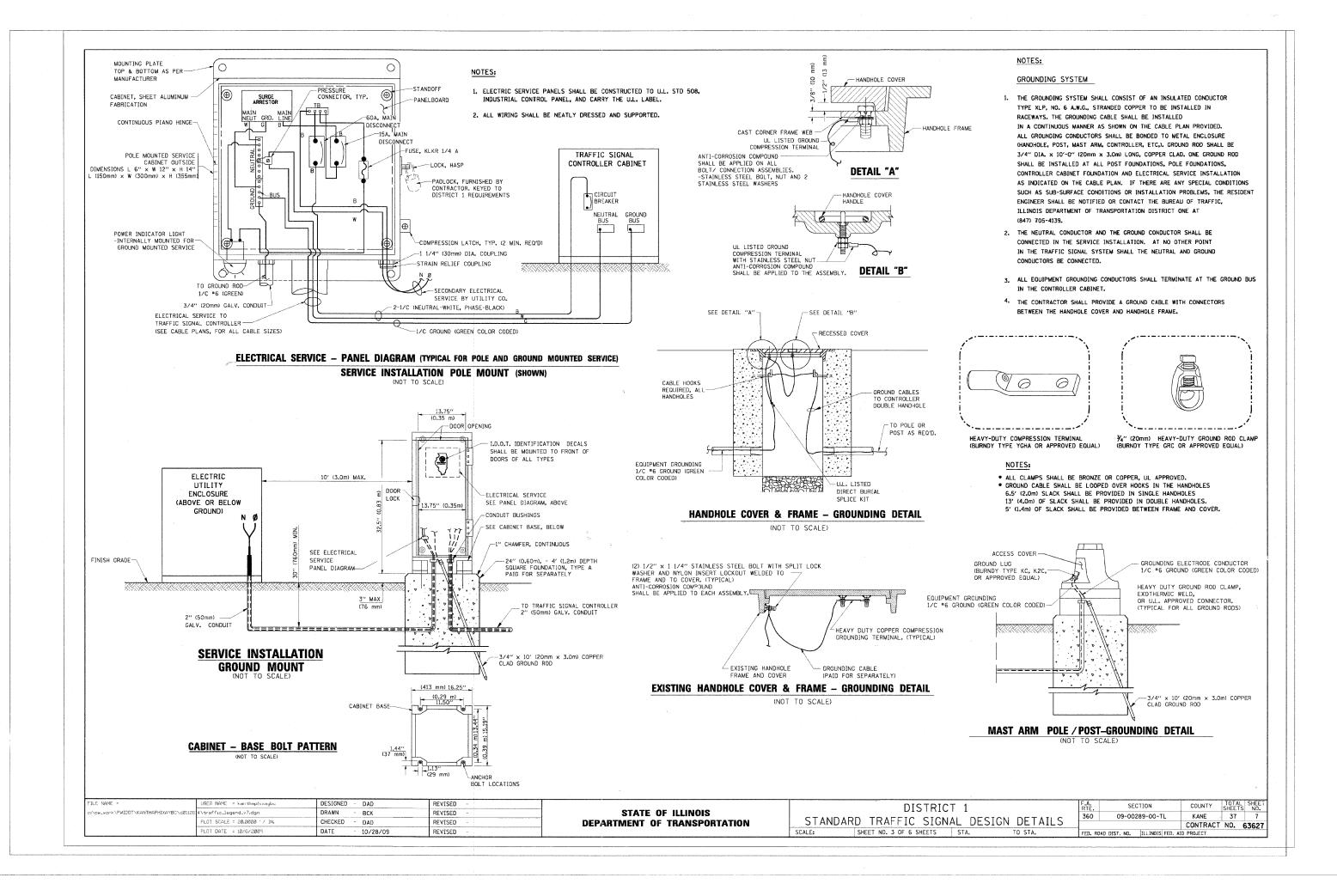
TRAFFIC SIGNAL EQUIPMENT OFFSET

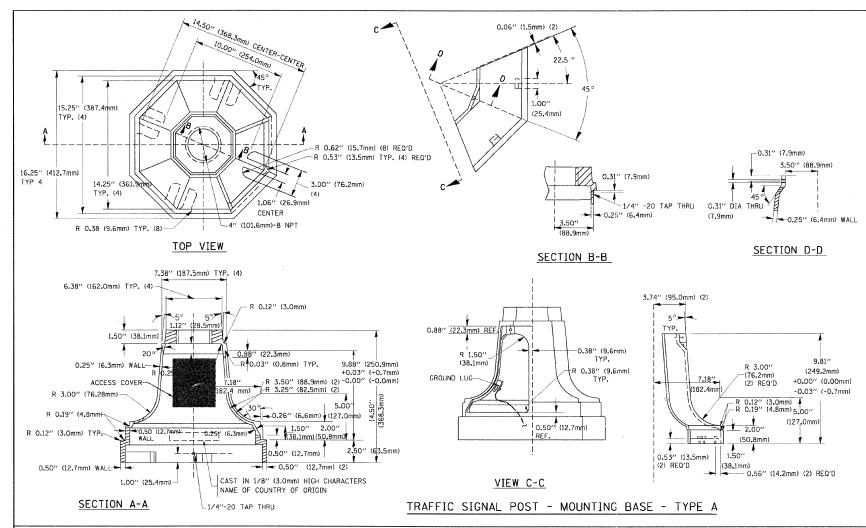
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

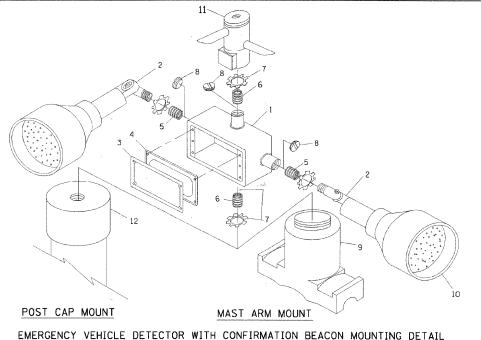
NOTES:

- 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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	HRGreen.com	PLOT SCALE = 20.0000 '/ IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		CONTRACT NO. 63627
IEE	Illinois Professional Design Firm	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -		SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.	FED. ROAD CIST, NO. ILLINOIS FED. A	



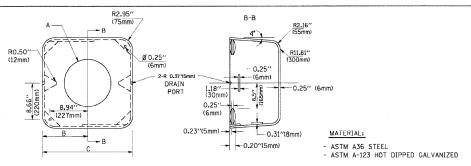




ITEM NO. IDENTIFICATION 1 OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 ½ "(19 mm) CLOSE NIPPLE 7 ½ "(19 mm) LOCKNUT 8 ½ "(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 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 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 SHALL BE REQUIRED ON EACH CAP.

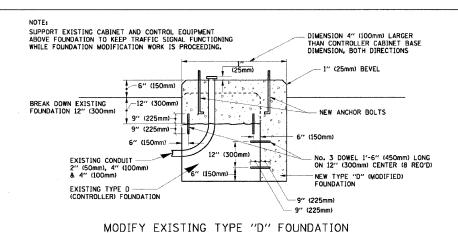


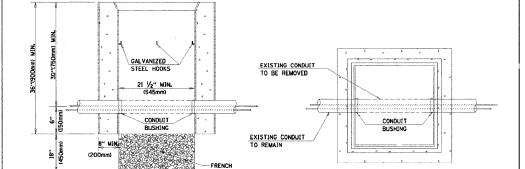
А	8	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

NOTES:

- 1. 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.





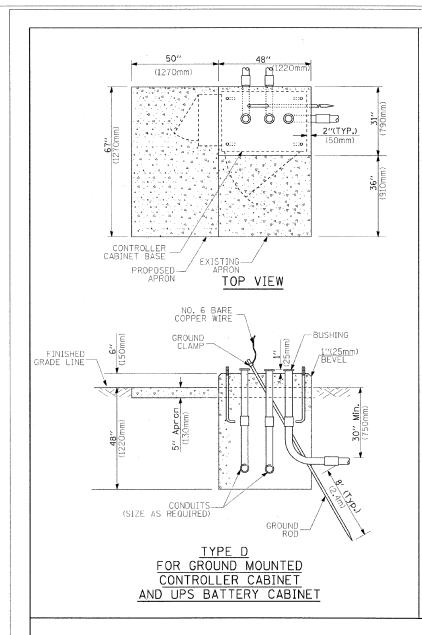
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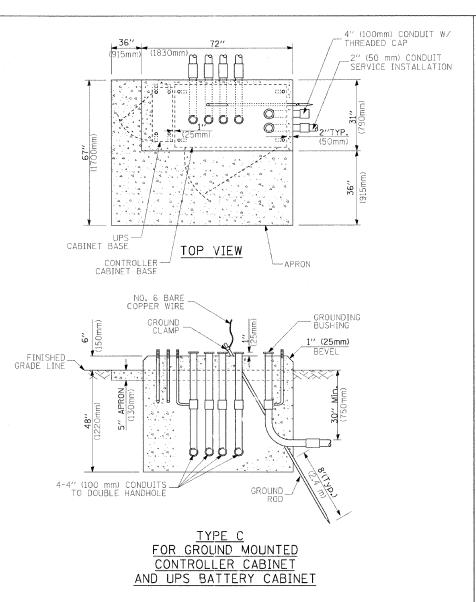
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

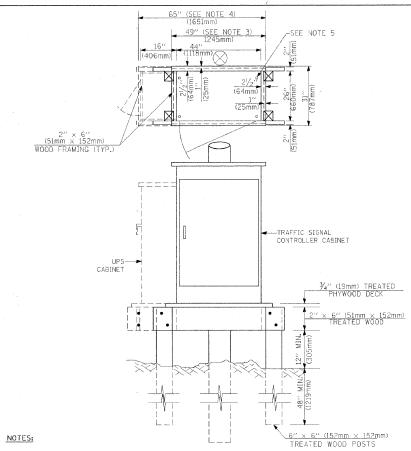
HANDHOLE TO INTERCEPT EXISTING CONDUIT

PLAN

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-	PLOT SCALE = 20.0000 '/ IN. PLOT DATE = 10/6/2009	CHECKED -	DAD 10/28/09	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET NO. 4 OF 6 SHEETS	AL DESIGN	N DETAILS		DIST. NO. TILLINOIS FED. A	CONTRACT	NO. 63	3627
	TEST BITTE TOTOLEGY	VAIL.	10, 50, 03	NEVISED		JUALE:	SHEET NO. 4 OF 6 SHEETS	JIA.	TU STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A	ID PROJECT		







- 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.
- 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)		
	20.0+L	6.0+L
	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM) KET MOUNTED (MAST ARM POLE OR SIGNAL POLE) STRIAN PUSH BUTTON ICE INSTALLATION POLE MOUNT TO SERVICE DROP ICE INSTALLATION GROUND MOUNT ICE INSTALLATION GROUND MOUNT		4.1
CKET MOUNTED (MAST ARM POLE OR SIGNAL POLE) ESTRIAN PUSH BUTTON EVICE INSTALLATION POLE MOUNT TO SERVICE DROP EVICE INSTALLATION POLE MOUNT TO GROUND		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)	ή 12 j	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)

NOTES:

- 1. 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

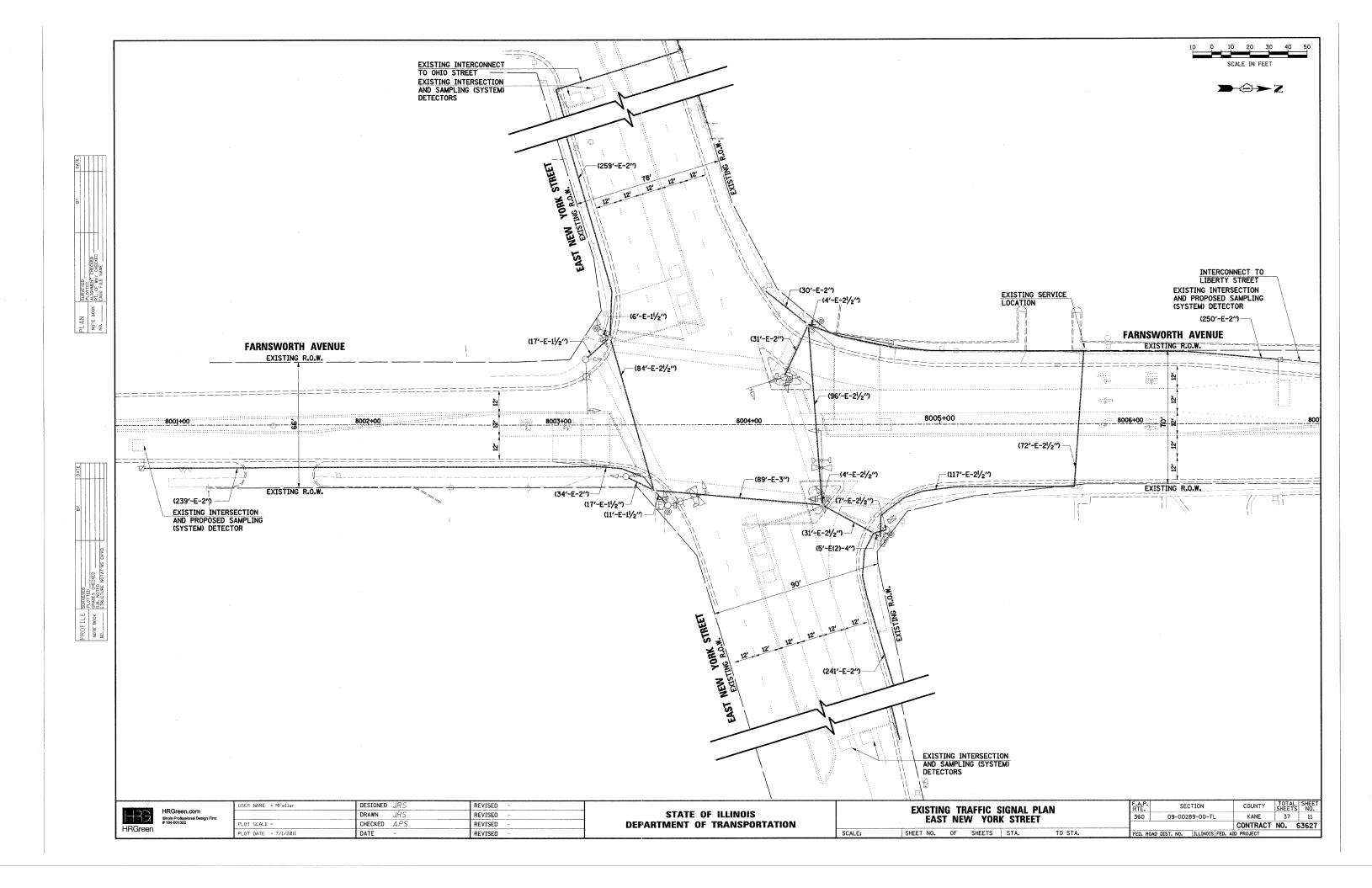
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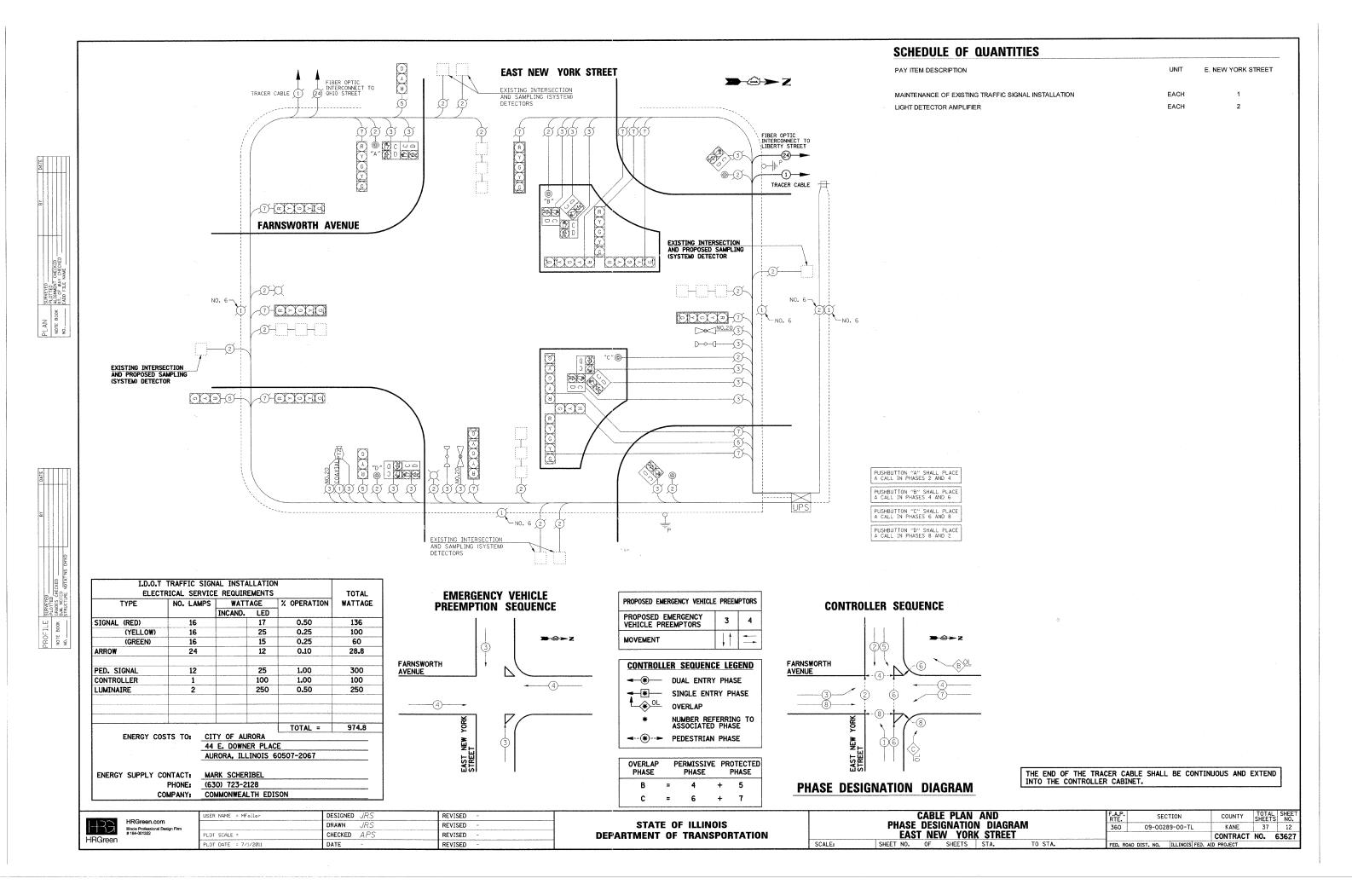
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

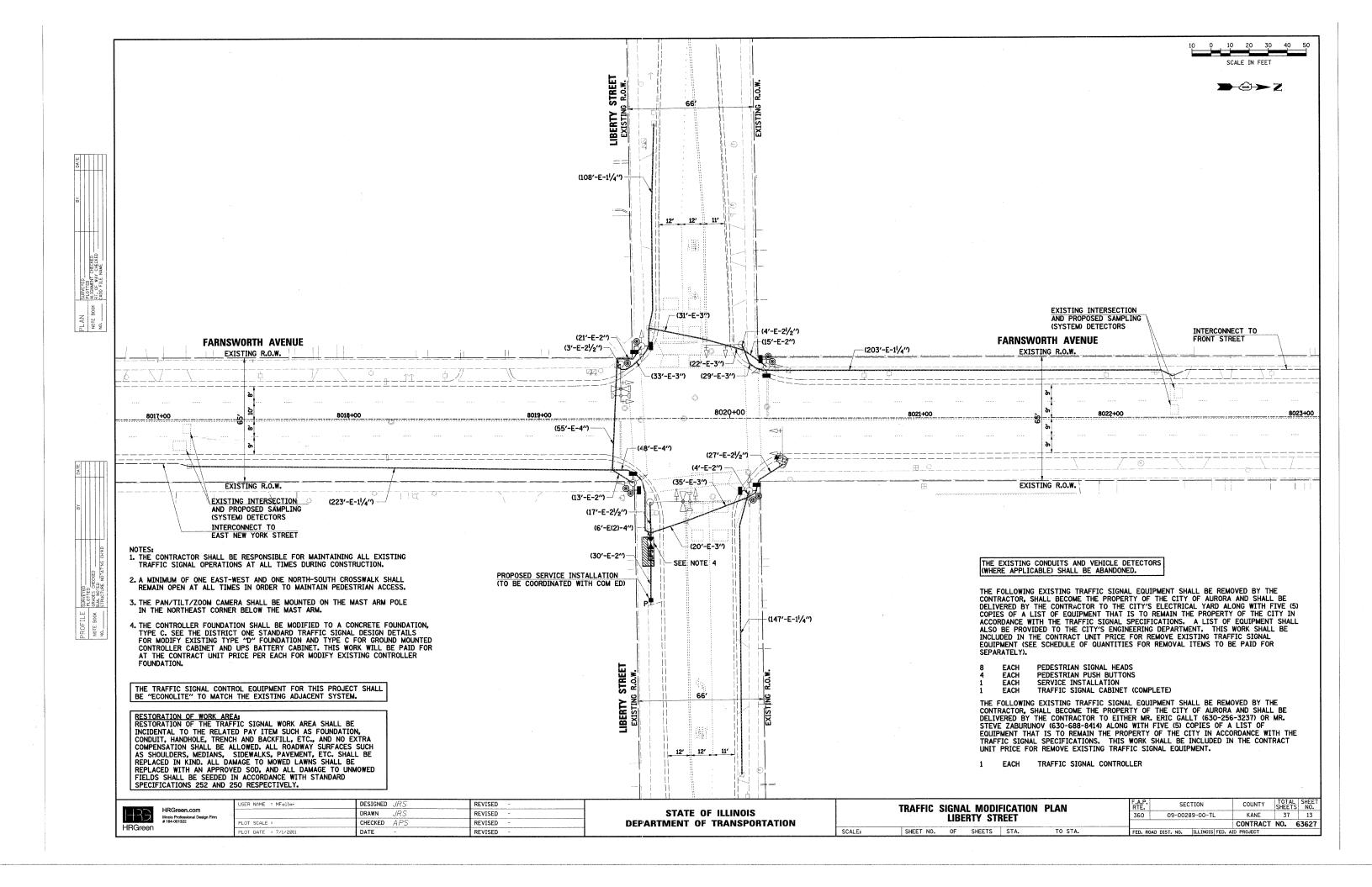
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STANDAF	RD TRAFFIC SIGN	AL DESIGN	DETAILS	360	09-00289	9-00-TL	KANE CONTRACT	37 NO.	9 6362 7
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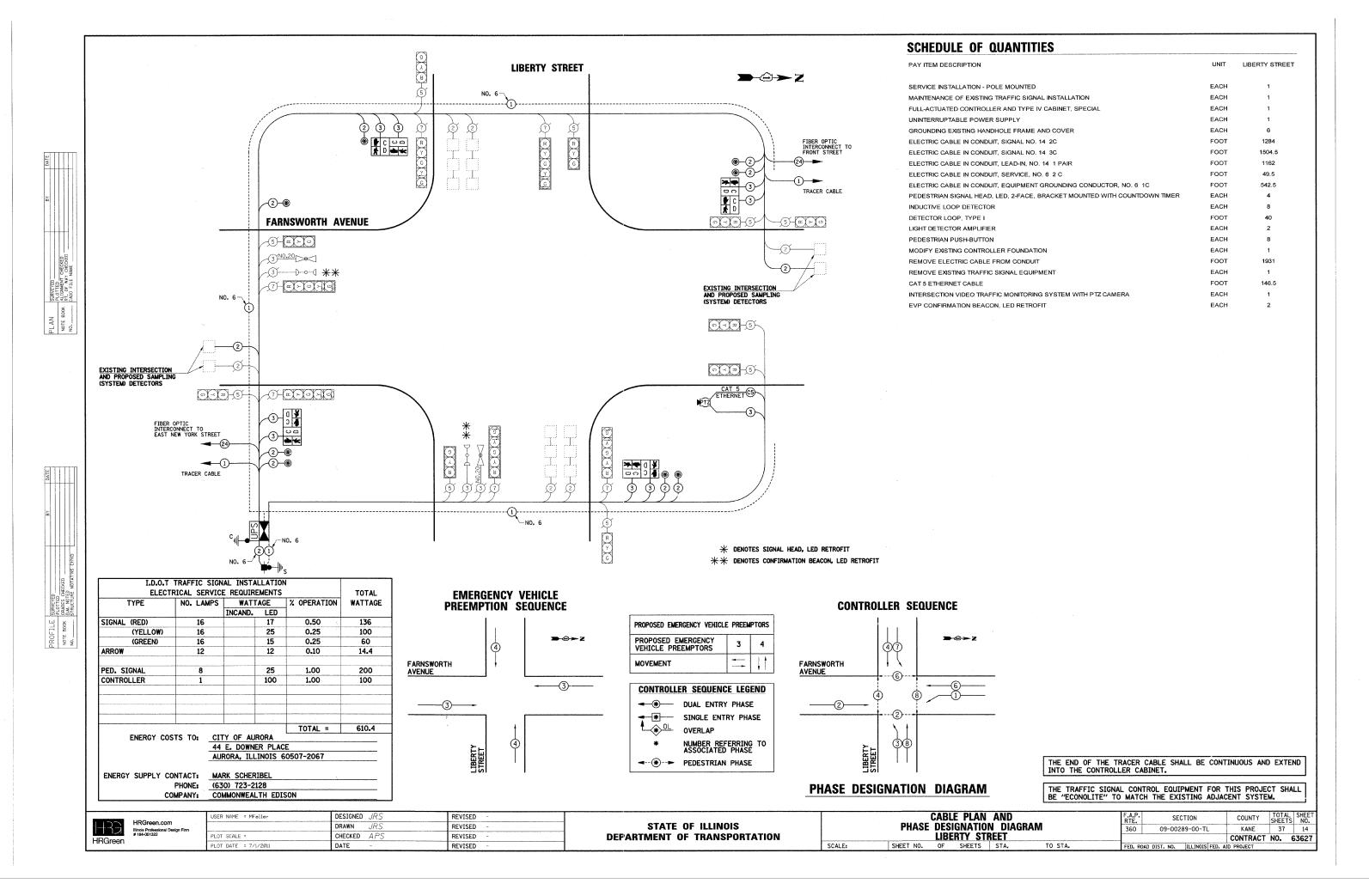
TRAFFIC SIGNAL LEGEND

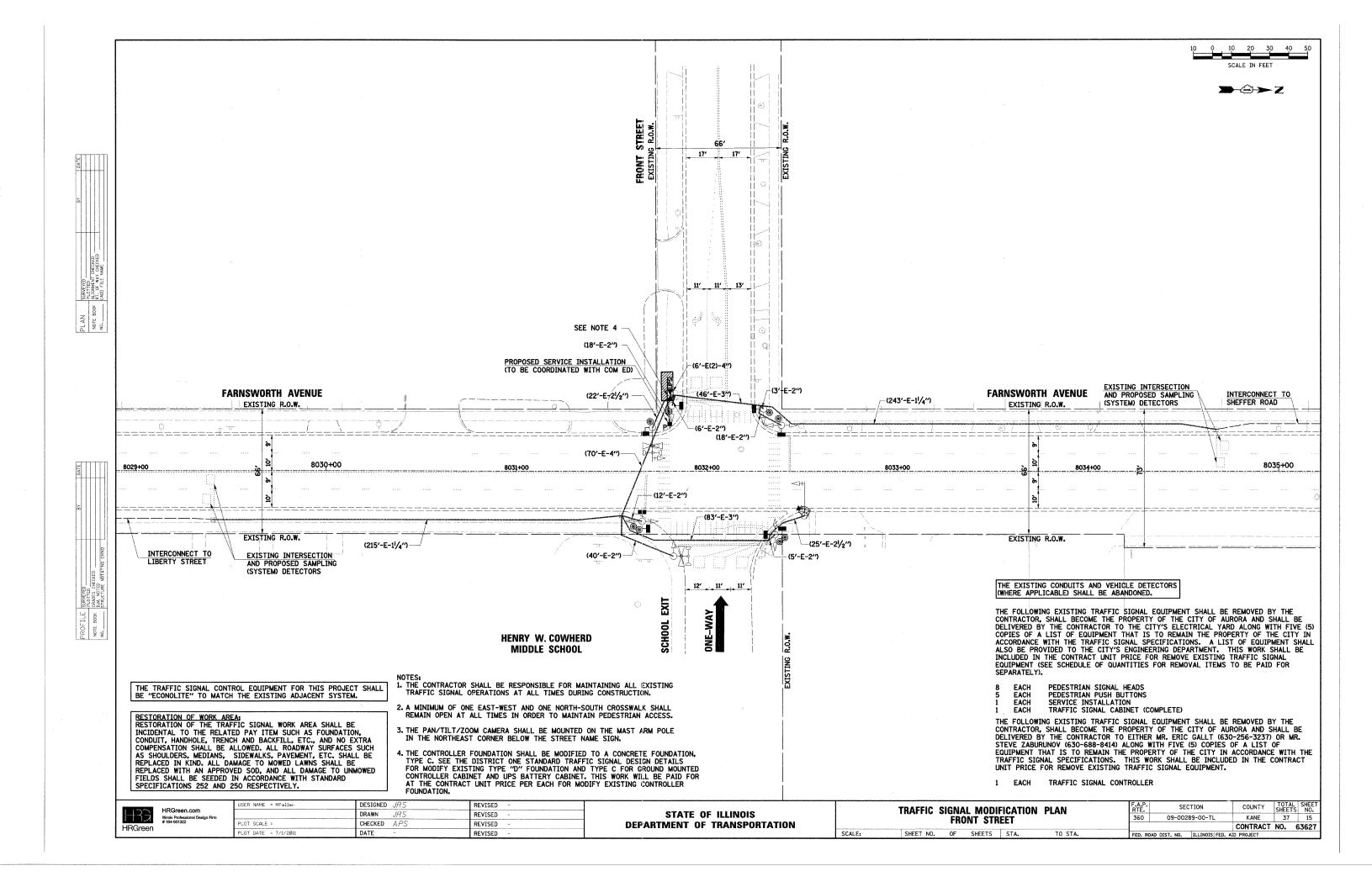
ITEM	REMOVAL	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R	\bowtie	\blacksquare	EMERGENCY VEHICLE LIGHT DETECTOR	R≪	≪	~	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET			₽ ◀	CONFIRMATION BEACON	Ro-0	0-0	•-			α	
COMMUNICATIONS CABINET	C C R	ECC	CC	HANDHOLE	R □			COAXIAL CABLE		<u> </u>	<u> </u>
MASTER CONTROLLER		EMC	MC				_	VENDOR CABLE FOR CAMERA		W	
MASTER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	K _H	Н				—(v)—	
UNINTERRUPTIBLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	R ==			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u> </u>	6
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	- <u>-</u> -	- <u></u>	- P	JUNCTION BOX	R	0	•	FIBER OPTIC CABLE		—(12F)—	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				NO. 62.5/125, MM12F FIBER OPTIC CABLE		— <u>24</u> F—	—(24F)—
STEEL MAST ARM ASSEMBLY AND POLE	R.	O	•	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R			NO. 62.5/125, MM12F SM12F		~	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R .	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		-	
STEEL COMBINATION MAST ARM	R _O	O-X	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS)			
ASSEMBLY AND POLE WITH LUMINAIRE		~	- ~	SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		C _I	c _{II}
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	RO		₽TZ	INTERSECTION ITEM		I	IP	OR (S) SERVICE		ગ	ч
SIGNAL POST	R _O	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R	⊗		RELOCATE ITEM	RL			TOURSALION TO BE REMOVED			
BETTER) 45 FOOT (13.7m) MINIMUM	`⊗			ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
GUY WIRE	>R	>	>-	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND	RMF		
SIGNAL HEAD	R →	\rightarrow		12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED	CVIII		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			- 2	YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF ○ -¤		
SIGNAL HEAD WITH BACKPLATE	+₽ ^R	+	+			R	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED			— > "P"	SIGNAL FACE		G	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O- -> ″F″	O-D"F″	●▶ ″F"			(*)	◆ Y ◆ G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
PEDESTRIAN SIGNAL HEAD	R -[]	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		S	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	©	(6)	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			G	EXISTING INTERSECTION LOOP DETECTOR		P	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	APS			(*)	∢ Y ∢ G	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT EXISTING PREFORMED INTERSECTION LOOP DETECTOR	OR .	PP	
ILLUMINATED SIGN	R	0				"P"	"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR	[PP]	
"NO LEFT TURN"			(5)	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(W) W		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"	R		®	12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		[PS]	PS
DETECTOR LOOP, TYPE I		[INTERNATIONAL SYMBOL, OUTLINED						ļ	f1
			1-1	12" (300mm) PEDESTRIAN SIGNAL HEAD		\bigcirc	•	RAILROAD	CANADO) I C	
PREFORMED DETECTOR LOOP.		P	Р	INTERNATIONAL SYMBOL, SOLID		<u>k</u>	Ř	nAILNUAU	O I WIDU	LO	
MICROWAVE VEHICLE SENSOR	R MA	M	M	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C SDD	C AD			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R [V]⊅	\bigcirc 1	(♥) •	RADIO INTERCONNECT	- R	111110	- ++•	RAILROAD CONTROL CABINET			> ≪[
VIDEO DETECTION ZONE					1.			RAILROAD CANTILEVER MAST ARM	Σ	KOX X	X ex x
	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL		$\times \Theta \times$	X ⊖X
PAN, TILT, ZOOM CAMERA	PTZ 1	PTZ)	PZI	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,				CROSSING GATE		X0X >	<u>~</u> ~
WIRELESS DETECTOR SENSOR	R	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		/	-				
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1		CROSSBUCK		≥	*
FILE NAME = USER NAME = MFeller		ESIGNED - DAG/BCK	REVISED			_		DISTRICT 1	F.A. RTE.	SECTION	COUNTY TOTAL SHEETS
\\hrgyvnes\data\070690.08\Cad\Trans\Sheets\690_8_s.sigdet06.dgn PLOT_SCALE =		RAWN - BCK HECKED - DAD	REVISED -	STATE DEPARTMENT	OF ILLINOI OF TRANSP			STANDARD TRAFFIC SIGNAL DESIGN DETAIL		09-00289-00-TL	KANE 37 CONTRACT NO. 636
PLOT DATE = 7/1/2011		ATE - 10/28/09	REVISED -	PELAITIVIENT	o. IIIANOF	J.:.A.:1014	SCALE: NO	ONE SHEET NO. 6 OF 6 SHEETS STA. TO STA.	FED. ROAL	DIST. NO. ILLINOIS FE	

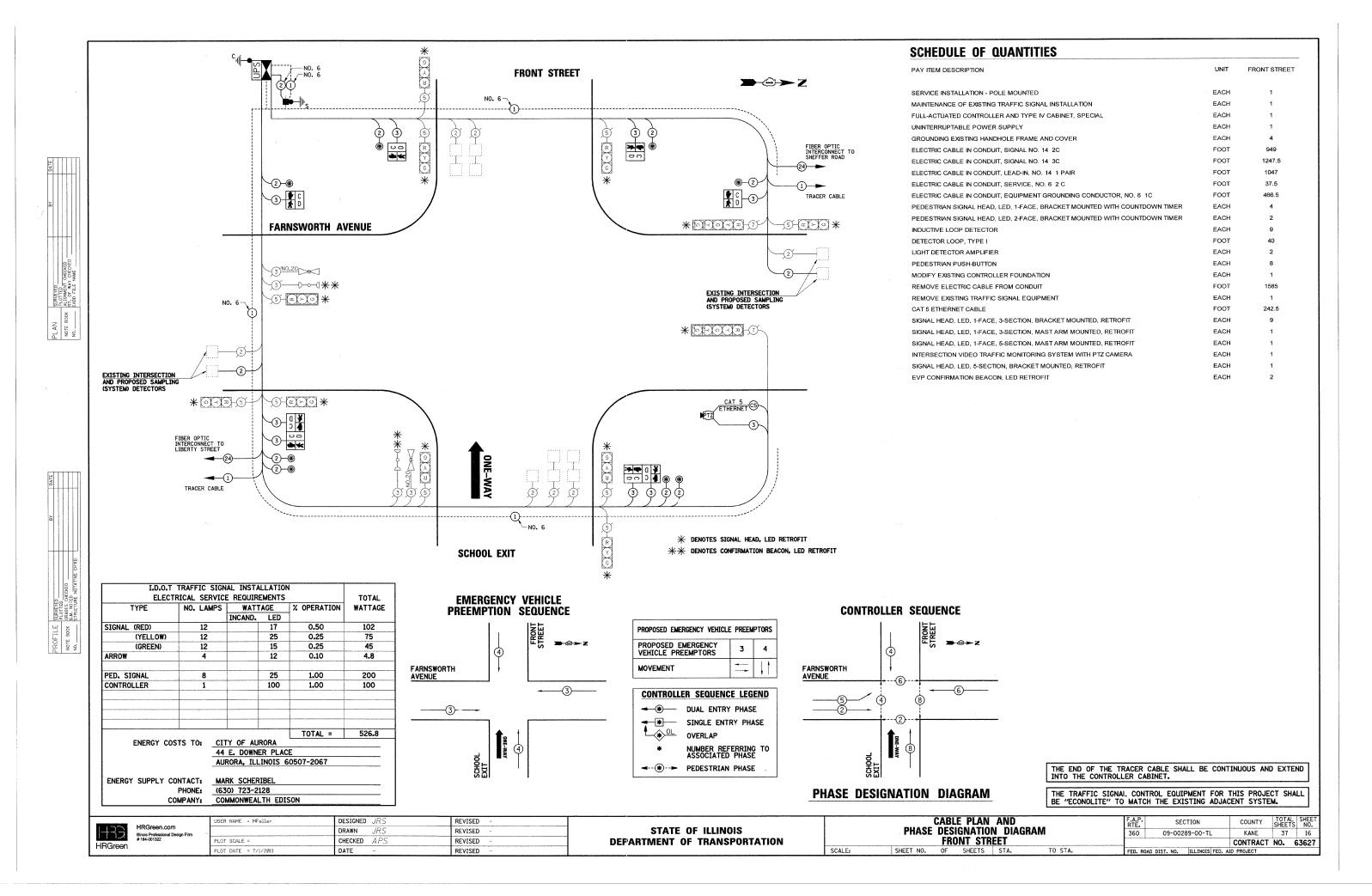


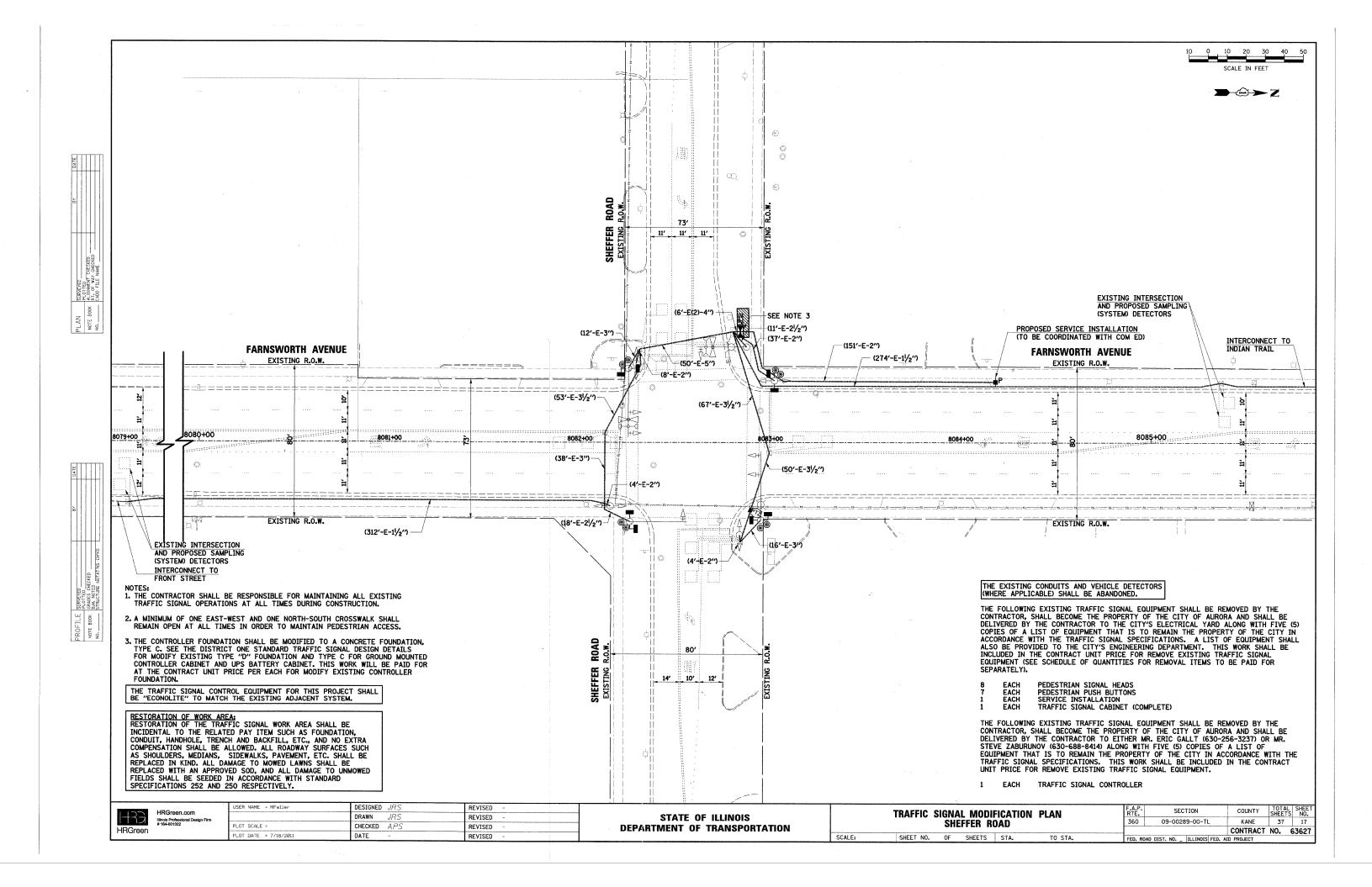


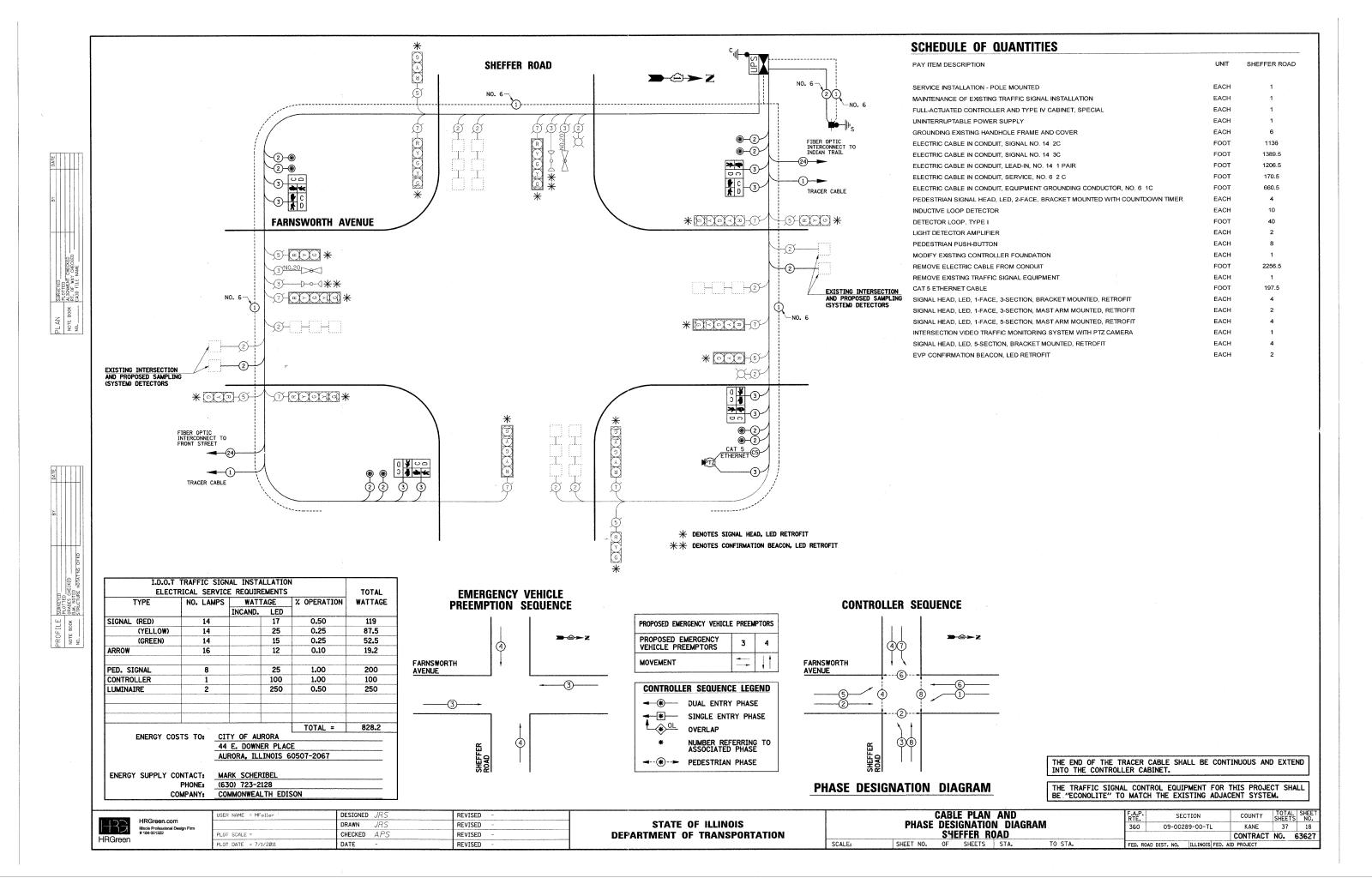


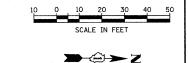




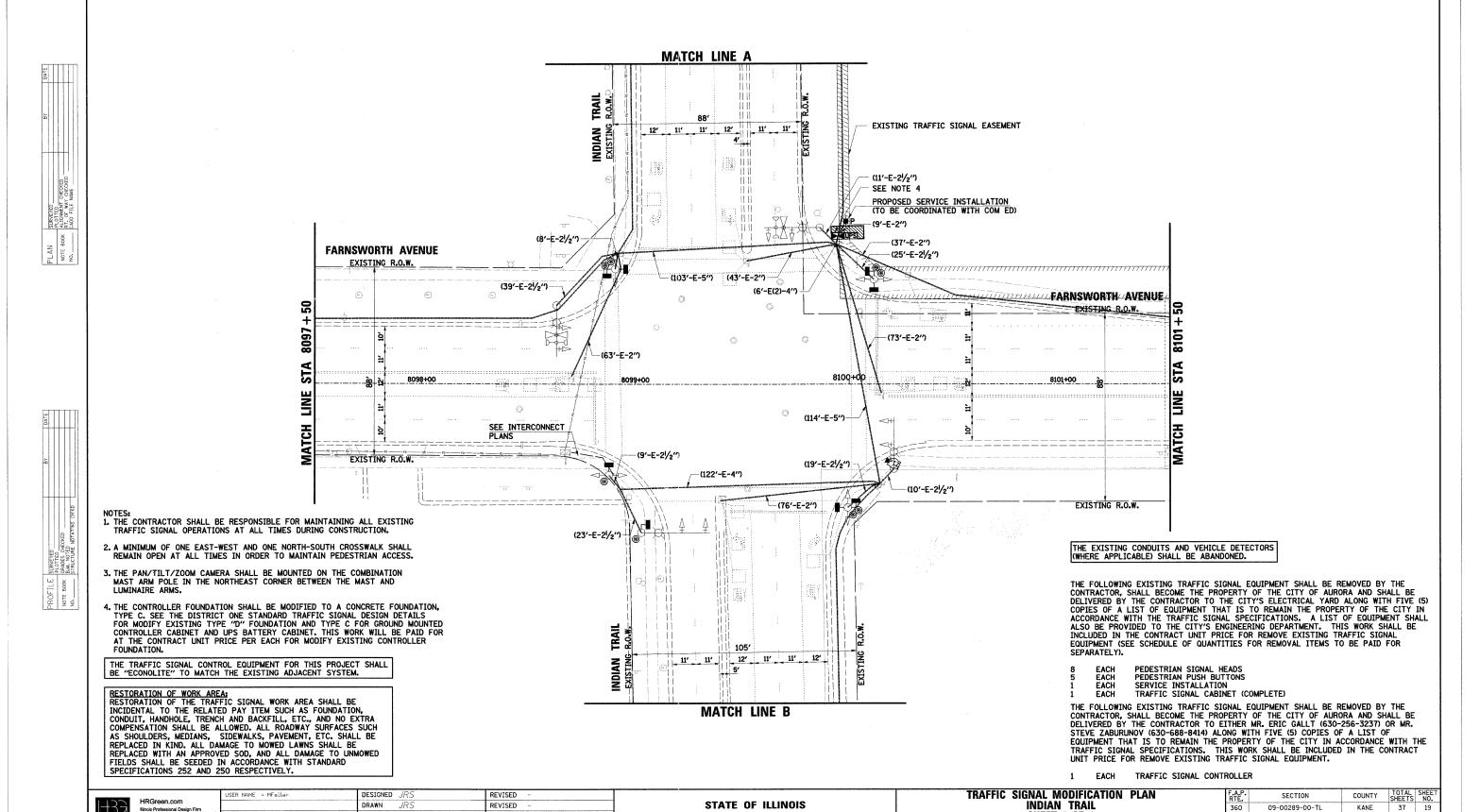








CONTRACT NO. 63627



DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 2

OF SHEETS STA.

TO STA.

SHEET NO.

SCALE:

PLOT SCALE

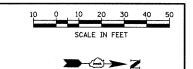
HRGreen

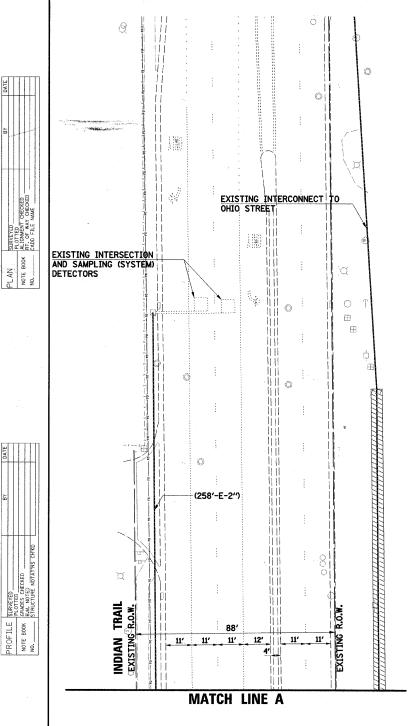
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DATE

REVISED

REVISED





MATCH LINE B 1111 105' 12' 12' 11' 11' (286'-E-2") 11 11 EXISTING INTERSECTION AND AMPLING (SYSTEM) DETECTORS EXISTING INTERCONNECT TO FELTEN ROAD

EXISTING INTERSECTION
AND PROPOSED SAMPLING
(SYSTEM) DETECTORS
INTERCONNECT TO
RECKINGER ROAD

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

FARNSWORTH AVENUE
EXISTING R.O.W.

INTERCONNECT TO
SHEFFER ROAD

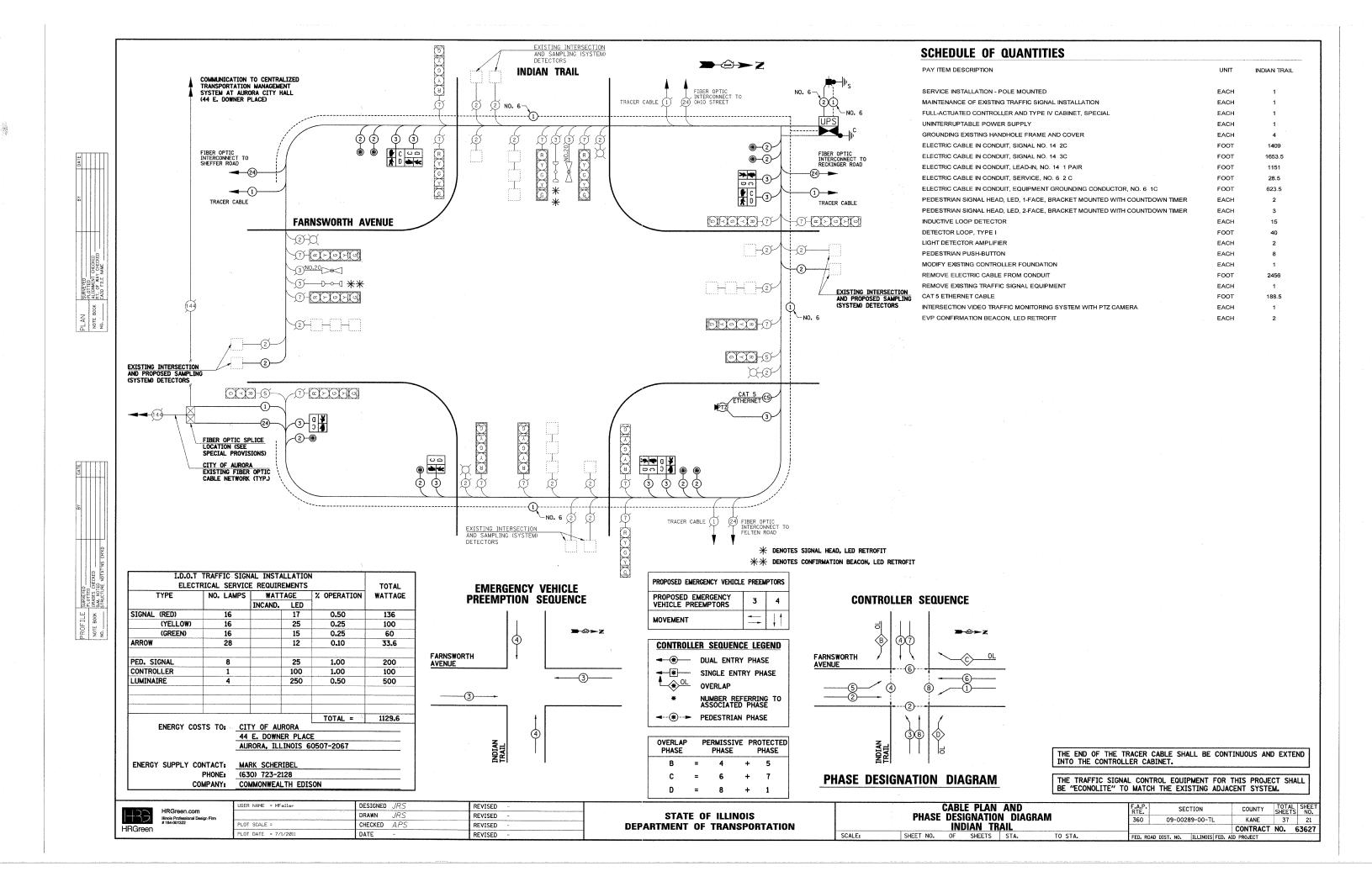
(71'-E-2')

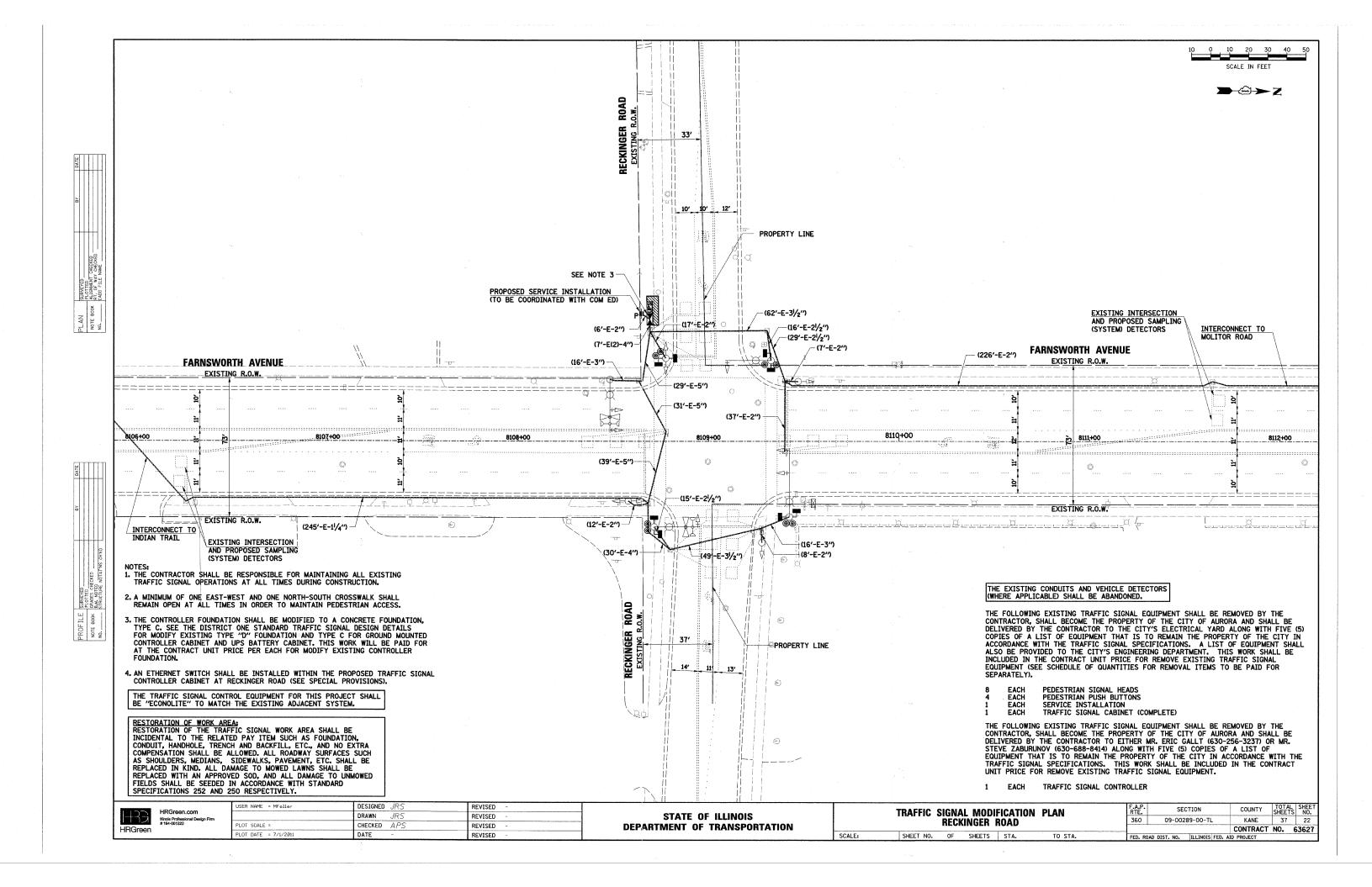
EXISTING INTERSECTION
AND PROPOSED SAMPLING
(SYSTEM) DETECTORS

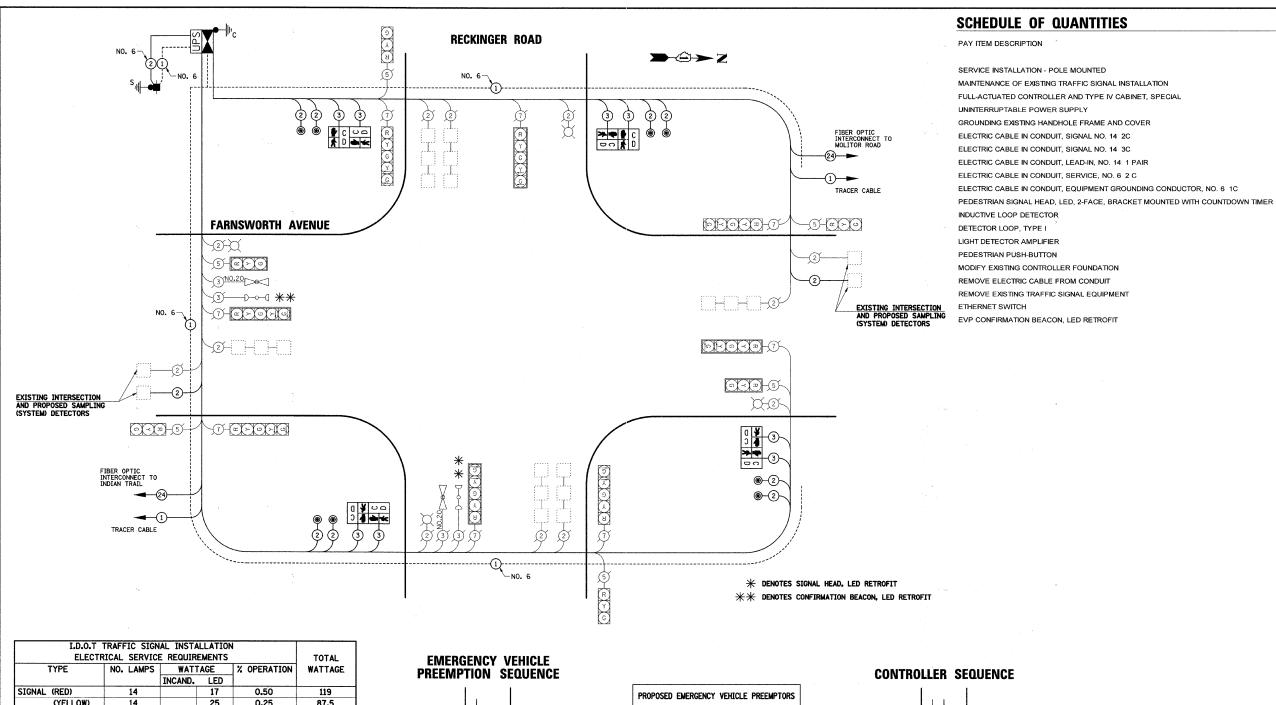
RESTORATION OF WORK AREA:
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE
INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION,
CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA
COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH
AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL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

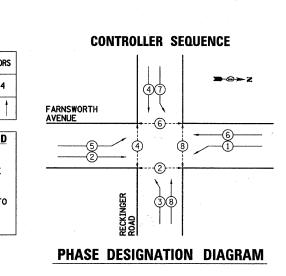
THE EXISTING CONDUITS AND VEHICLE DETECTORS (WHERE APPLICABLE) SHALL BE ABANDONED.

110	RGreen com	USER NAME = MFeller	DESIGNED JRS	REVISED -			TRAFFIC SIGNAL MODIFICATION PLAN	F.A.P. SECTION	COUNTY TOTAL SHEET
1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hinois Professional Design Firm		DRAWN JRS	REVISED -	STATE OF ILLINOIS		INDIAN TRAIL	360 09-00289-00-TL	KANE 37 20
#18 HRGreen	84-001322	PLOT SCALE =	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION		SHEET 2 OF 2	360 03-00283-00-1L	CONTRACT NO. 63627
HRGreen		PLOT DATE = 7/1/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FEE	AID PROJECT









(YELLOW) 14 25 0.25 87.5 (GREEN) 15 0.25 52.5 19.2 12 0.10 PED. SIGNAL 25 1.00 200 CONTROLLER 100 1.00 100 LUMINAIRE 250 0.50 500 TOTAL = 1078.2 ENERGY COSTS TO: CITY OF AURORA 44 E. DOWNER PLACE AURORA, ILLINOIS 60507-2067

ENERGY SUPPLY CONTACT: MARK SCHERIBEL (630) 723-2128 COMMONWEALTH EDISON

PROPOSED EMERGENCY VEHICLE PREEMPTORS MOVEMENT FARNSWORTH AVENUE **CONTROLLER SEQUENCE LEGEND** -(3)-**◆ *** DUAL ENTRY PHASE * SINGLE ENTRY PHASE L OL OVERLAP NUMBER REFERRING TO ASSOCIATED PHASE **◄--*** PEDESTRIAN PHASE

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

RECKINGER ROAD

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547.5

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

	1433	HRGreen.com illinois Professional Design Firm # 184-001322		L
HRGreen	HRGreen	# 184-001322	٠,	

PHONE:

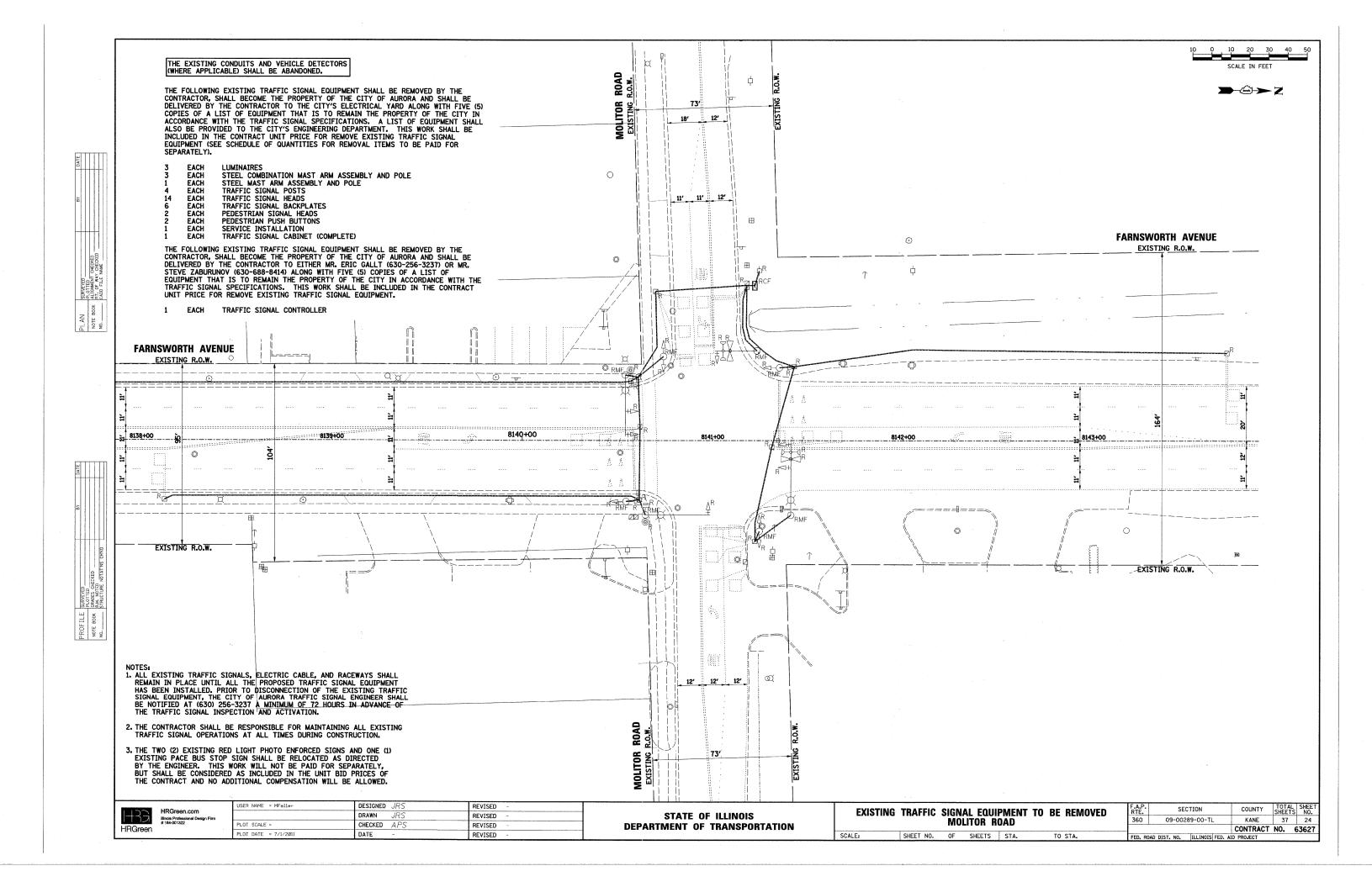
COMPANY:

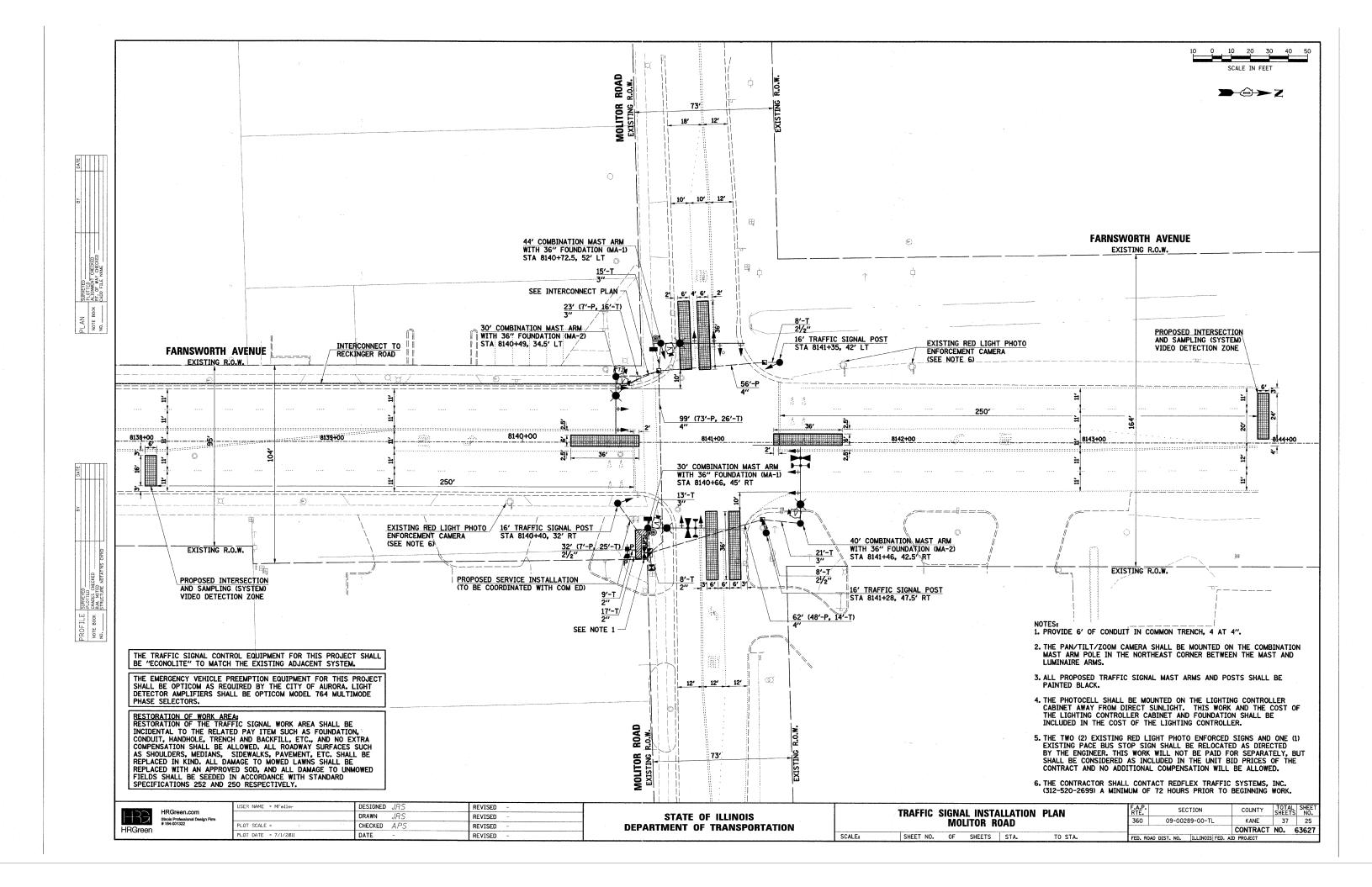
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	PLOT SCALE =	CHECKED	APS	REVISED	•
>,	PLOT DATE = 7/1/2011	DATE	-	REVISED	-
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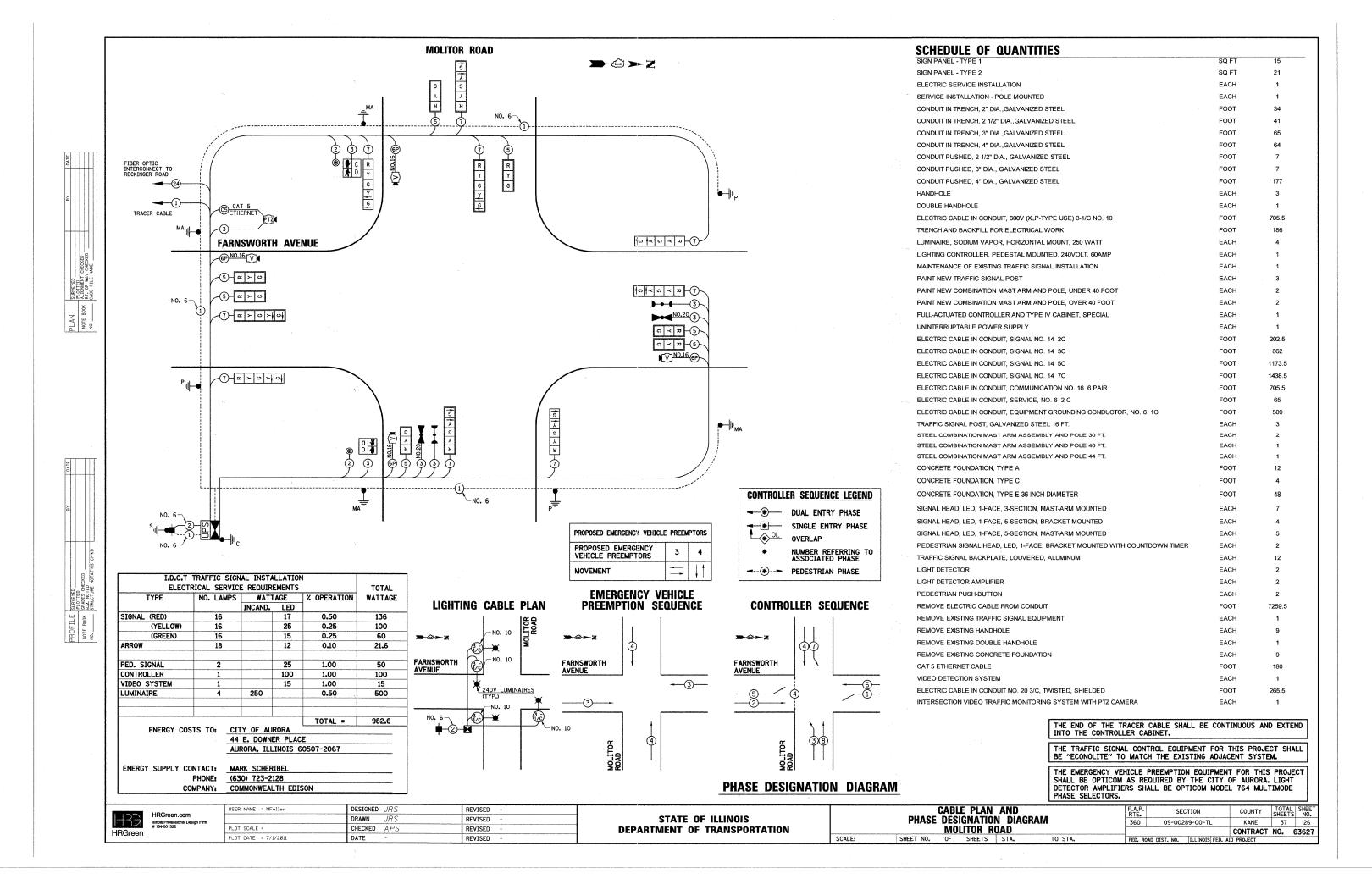
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

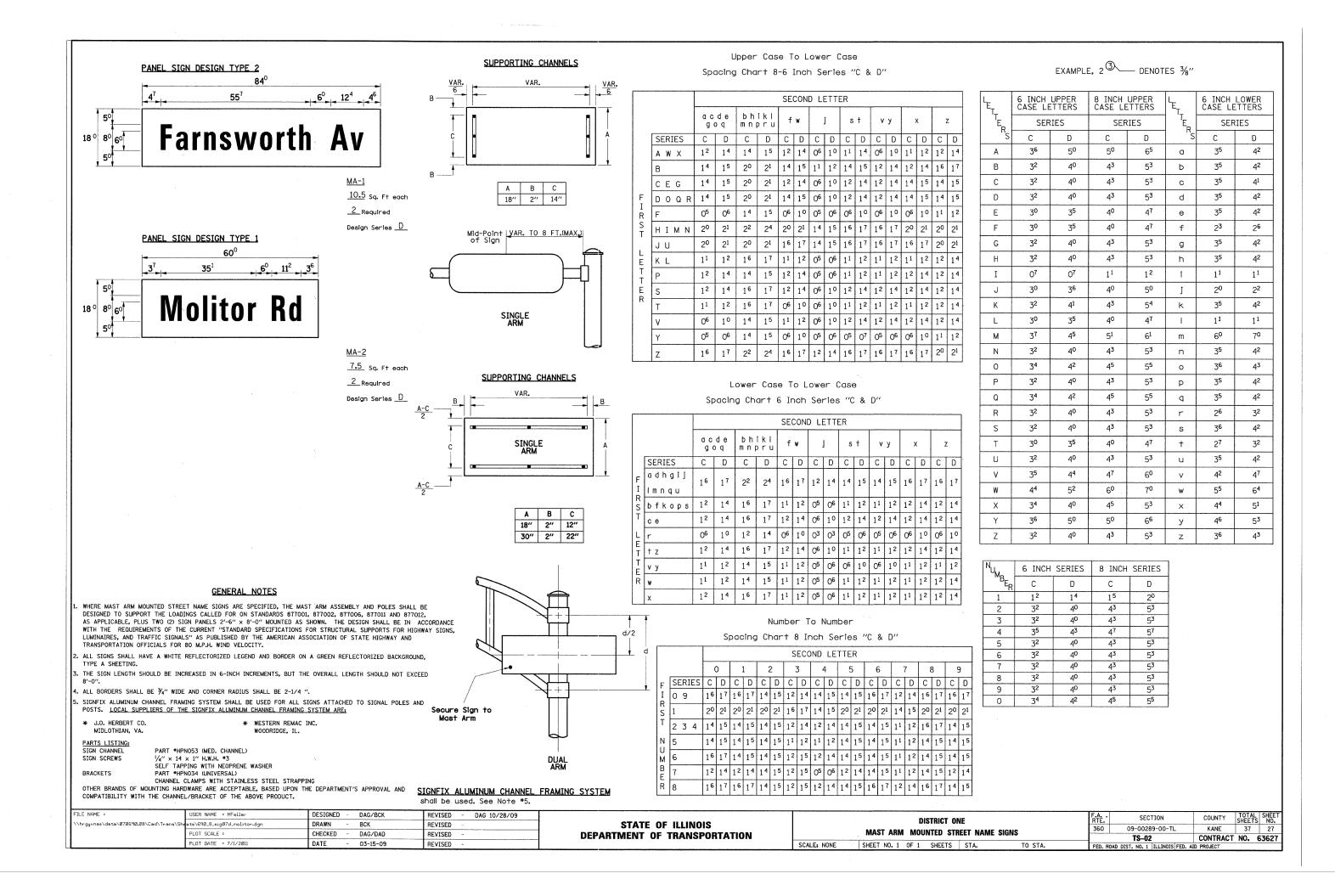
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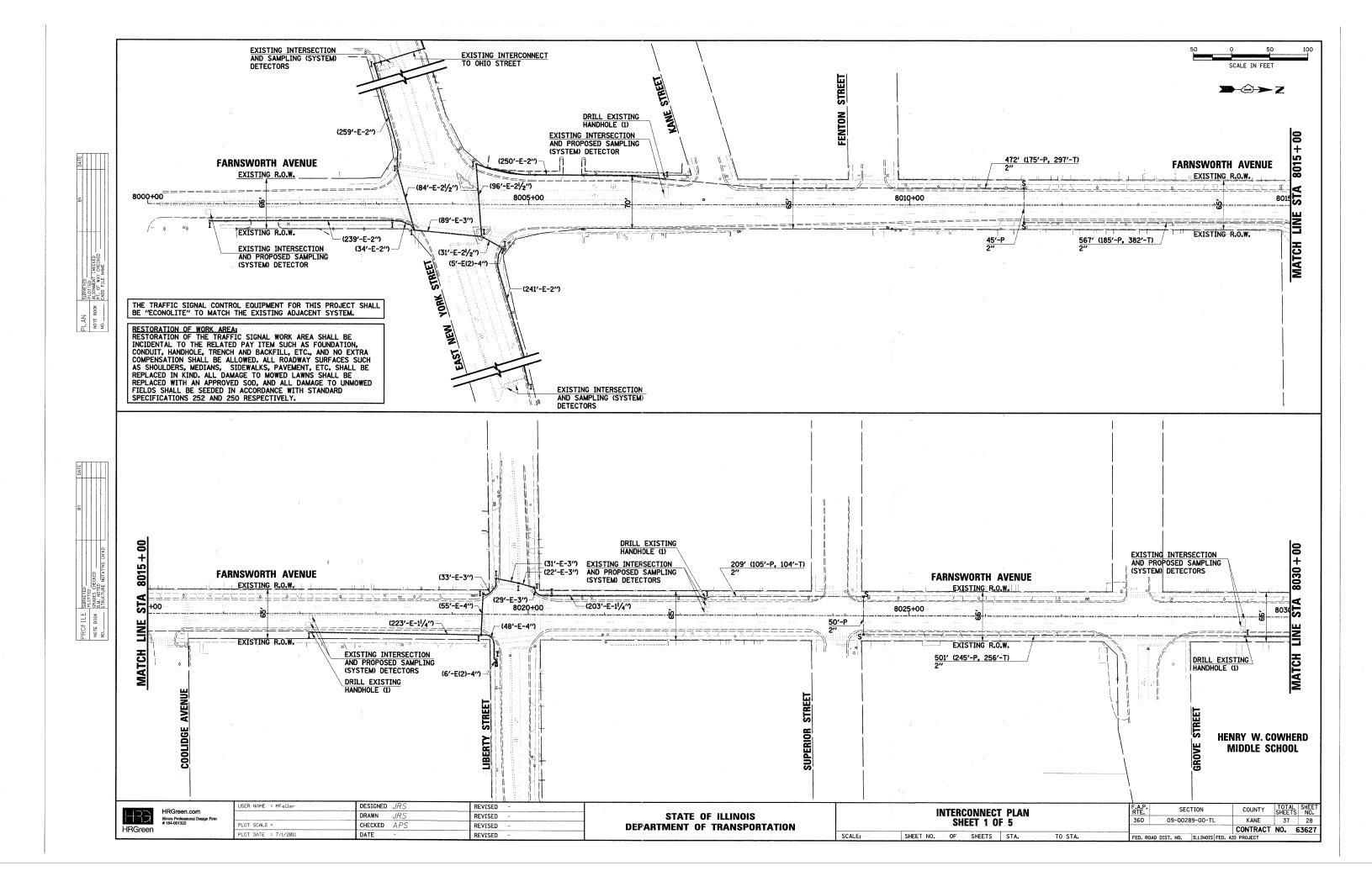
			AND		F.A.P. RTE.	SEC	CTION	COUNTY	TOTAL SHEETS	SHEET NO.
		OITANE		KAM	360	09-002	89-00-TL	KANE	37	23
	<u>RECKI</u>	NGER F	lOAD					CONTRACT	NO. 1	63627
EET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FED. AI	D PROJECT		

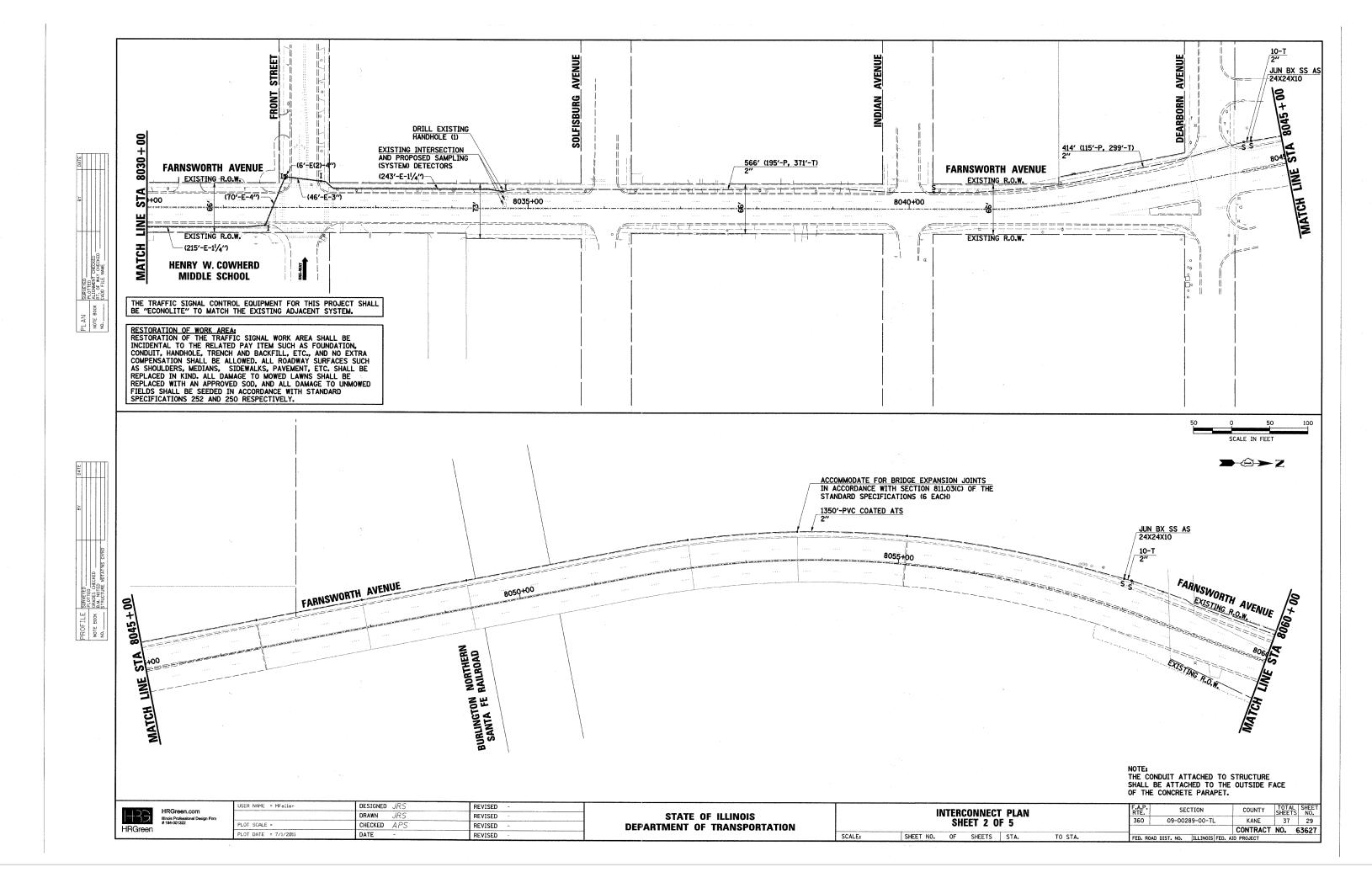


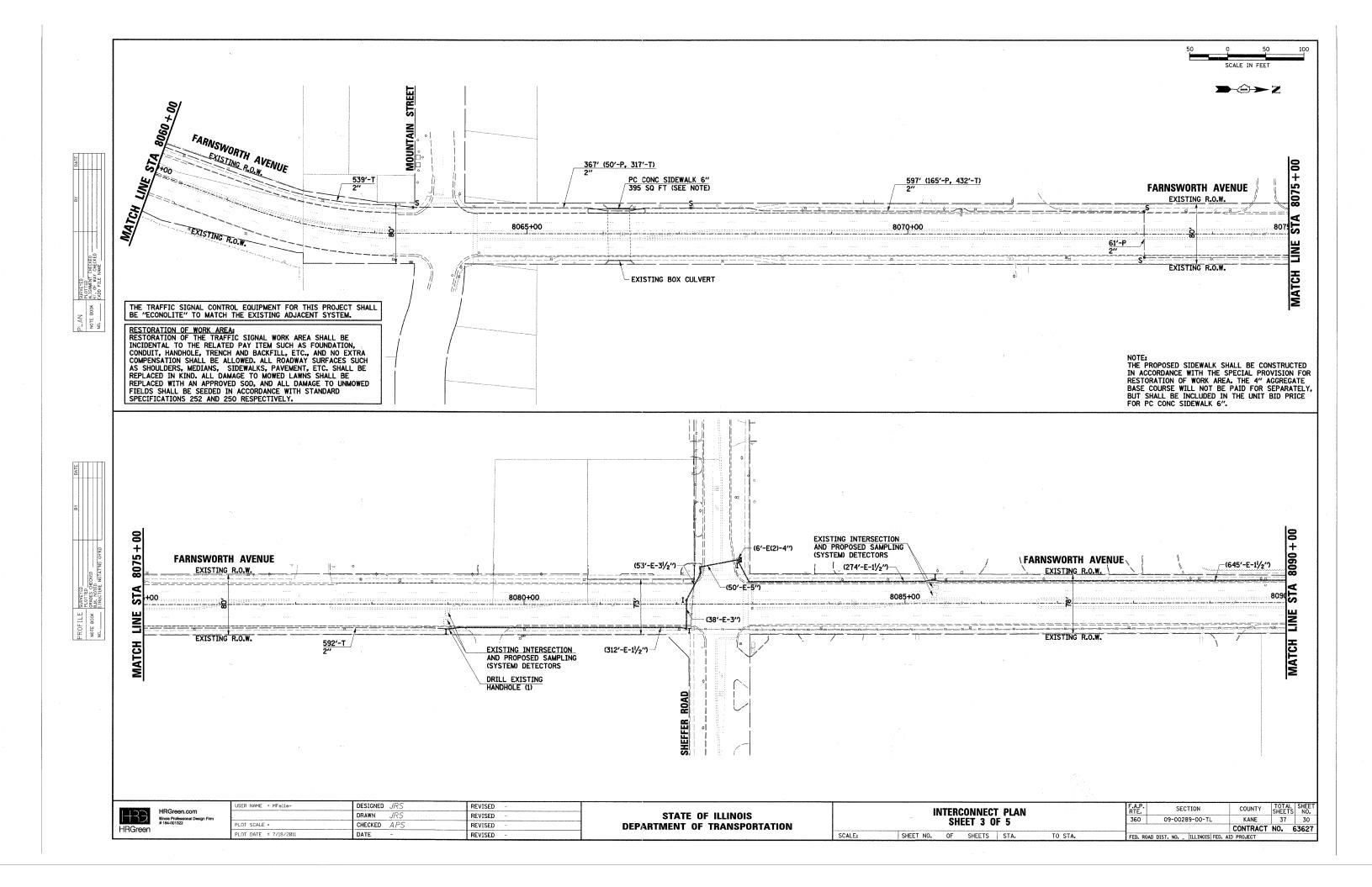


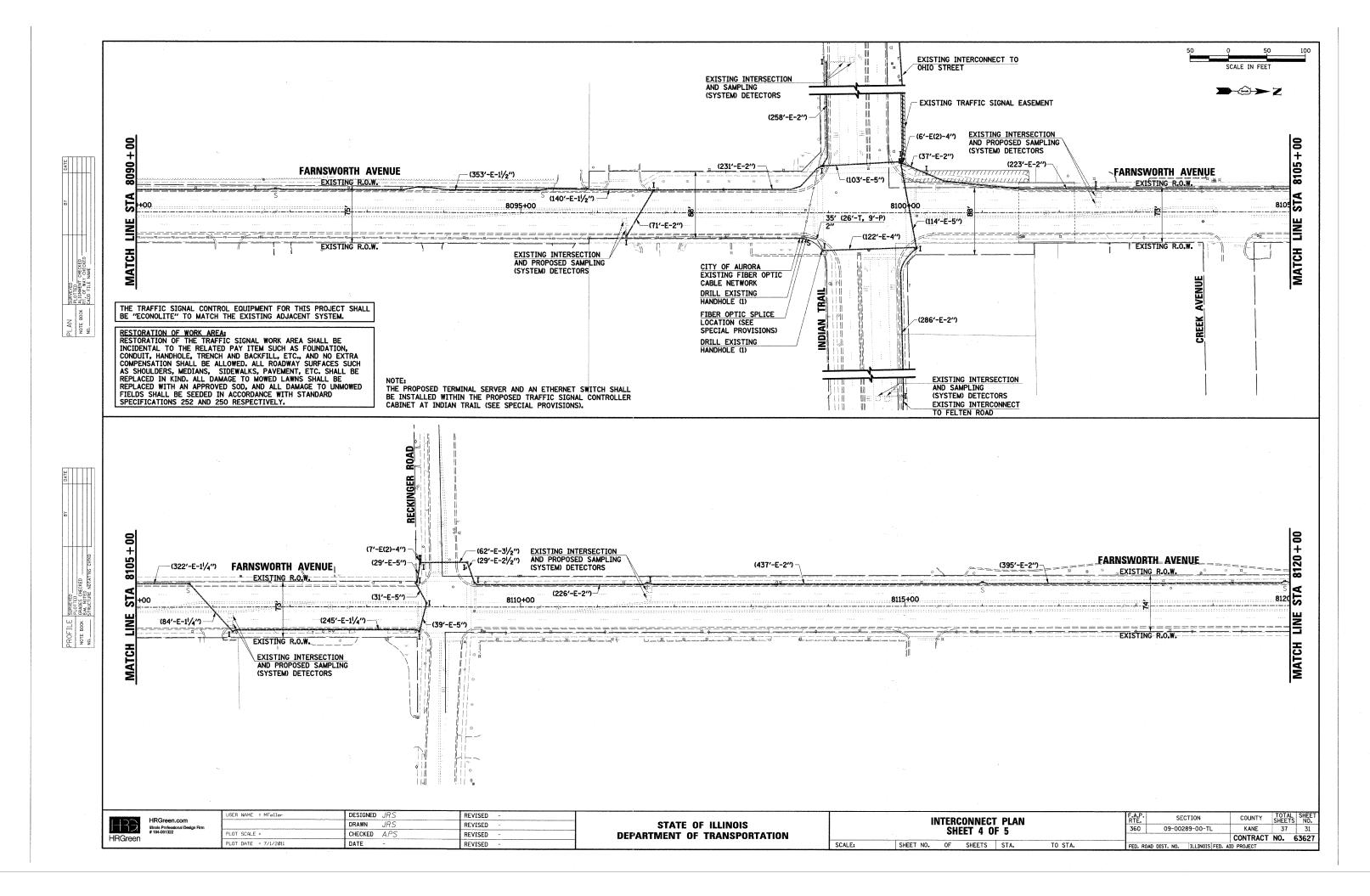


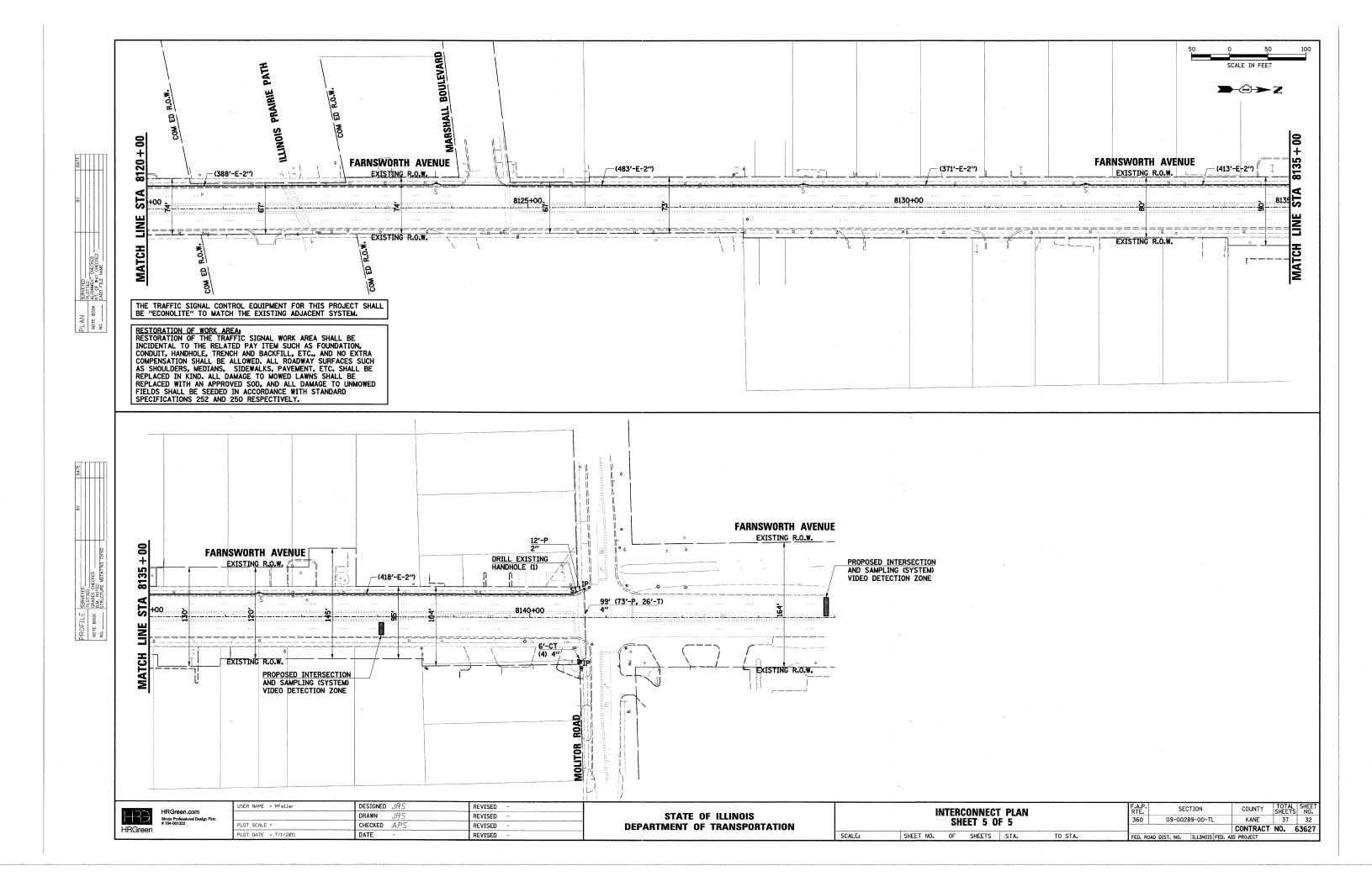






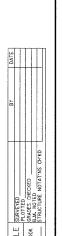


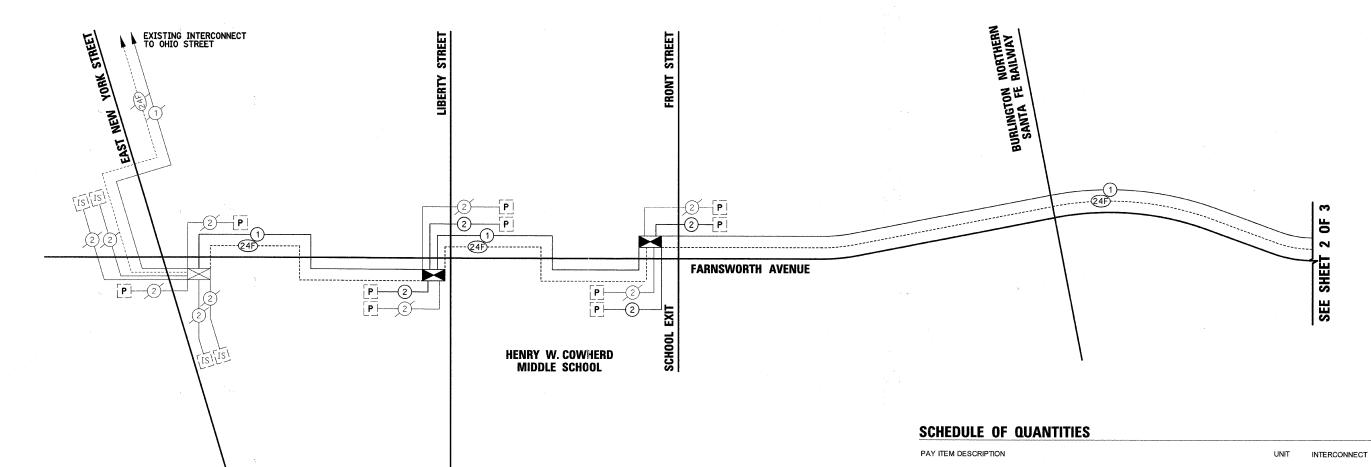








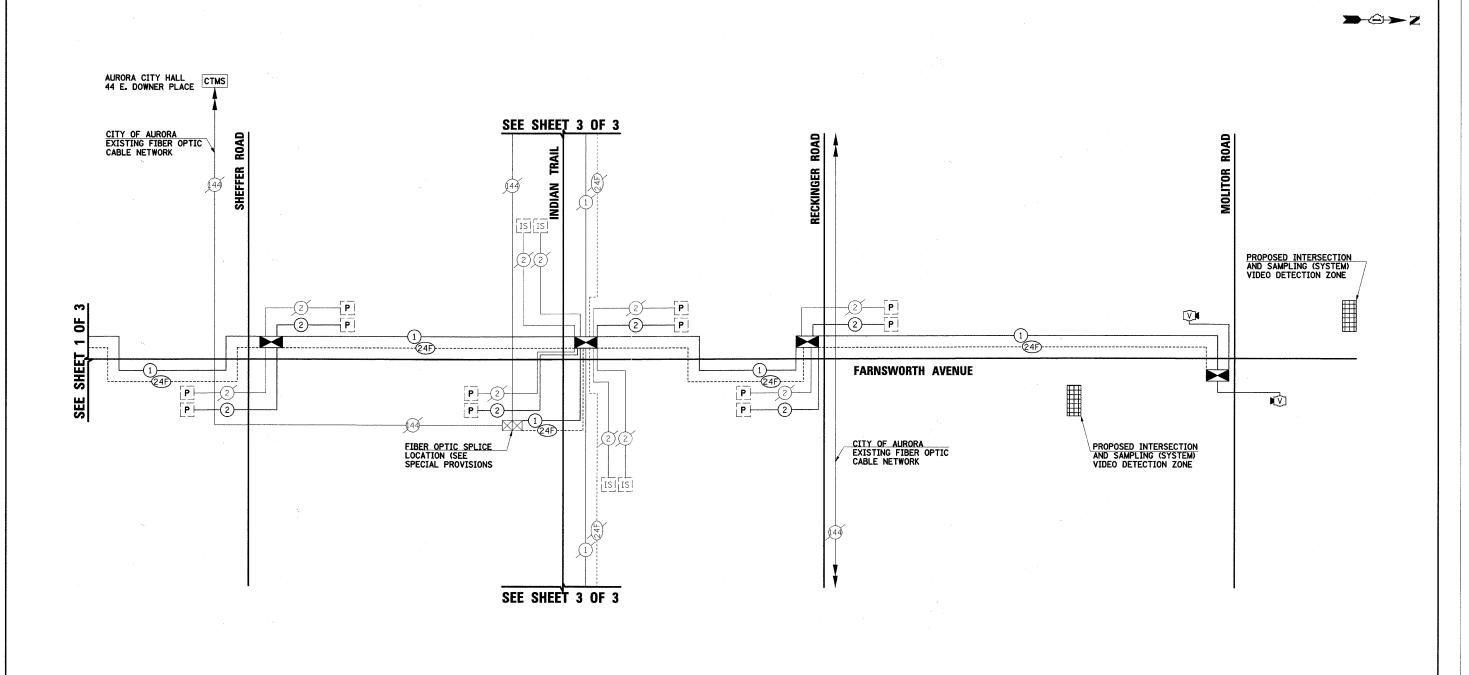




PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH SQ FT 395 SIDEWALK REMOVAL SQ FT 395 CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL FOOT 3635 CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL FOOT 1412 CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL FOOT 1350 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10" EACH 2 HANDHOLE EACH 11 TRENCH AND BACKFILL FOR ELECTRICAL WORK FOOT 3635 TRANSCEIVER - FIBER OPTIC EACH FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F FOOT 15661.5 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C FOOT 15661.5 DRILL EXISTING HANDHOLE EACH REMOVE ELECTRIC CABLE FROM CONDUIT FOOT 12608 FIBER OPTIC CABLE SPLICE EACH ETHERNET SWITCH EACH TERMINAL SERVER EACH CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP L SUM OPTIMIZE TRAFFIC SIGNAL SYSTEM EACH

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

UDC	USER NAME = MFeller	DESIGNED JRS	REVISED -			INITER	LOOBING	OT 00	UELLATIO		F.A.P.	SECTION	COUNTY	TOTAL	SHEET
Illinois Professional Design Firm		DRAWN JRS	REVISED -	STATE OF ILLINOIS		INIEK			HEMATIC		RIE	0201201	KANE	SHEETS	NO.
#184-001322 HRGreen	PLOT SCALE =	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION			SHEET	1 1 UF	3		360	03-00263-00-1L	CONTRACT	T NO 6	3627
P	PLOT DATE = 7/1/2011	DATE -	REVISED -		SCALE:	SHEET NO.	OF SH	HEETS	STA.	TO STA.	FED. ROAL	DIST. NO. ILLINOIS FED	. AID PROJECT	1 110. 0	3021



PROFILE SISPREYED

NOTE BOOK BANES CHECKED

NO. BAN HOTED

NO. STRUCTURE NOTATIVE CHECKED

NO.

NOTE:
THE EXISTING MASTER CONTROLLER AT THE INTERSECTION OF FARNSWORTH
AVENUE AND INDIAN TRAIL SHALL BE REMOVED BY THE CONTRACTOR, SHALL
REMAIN THE PROPERTY OF THE CITY OF AURORA, AND SHALL BE DELIVERED
BY THE CONTRACTOR TO THE CITY OF AURORA'S ELECTRICAL YARD. 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.

HRGreen	HRGreen.com Illinois Professional Design Firm # 184-001322	
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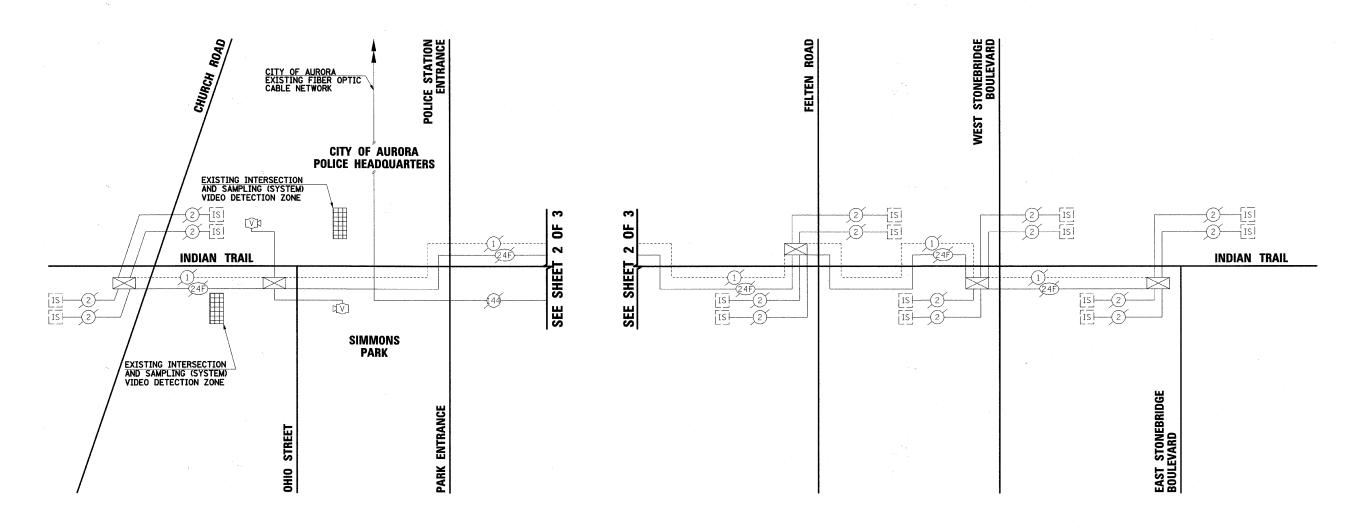
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PLOT DATE = 7/1/2011	DATE -	REVIS	SED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

INTERCONNECT SCHEMATIC						F.A.P. RTE.	SEC	TION	COUNTY	TOTAL	SHEET NO.
SHEET 2 OF 3					360	09-0028	9-00-TL	KANE	37	34	
				. •					CONTRACT	NO.	63627
SHEET	NO.	0F	SHEETS	STA.	TO STA.	FED. R	DAD DIST. NO.	ILLINOIS FED. A	ID PROJECT		

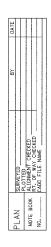


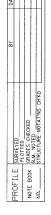


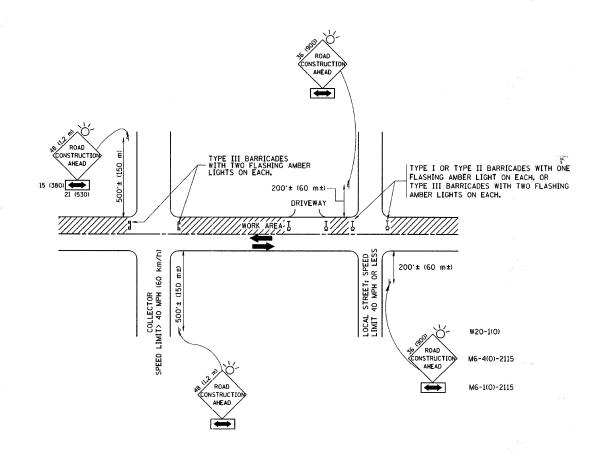
NOTE:
THE INTERSECTION OF INDIAN TRAIL AT THE POLICE STATION ENTRANCE
IS TO BE SIGNALIZED IN THE FUTURE BY OTHERS. AN EXTRA 50' OF
FIBER OPTIC AND TRACER CABLE SLACK HAS BEEN PROVIDED IN THE DOUBLE
HANDHOLE AT THIS LOCATION AS PART OF A PREVIOUS PROJECT FOR FUTURE
CONNECTION TO A FUTURE CONTROLLER.

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

	HPGroop com	USER NAME = MFeller	DESIGNED JRS	REVISED -			INTERCONNECT SCHEMATIC	F.A.P. SECTION	COUNTY TOTAL SHEET NO.
	# PLOT SCALE = PLOT DATE = 7/		DRAWN JRS	REVISED -	STATE OF ILLINOIS		SHEET 3 OF 3	360 09-00289-00-TL	KANE 37 35
HDC		PLOT SCALE =	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION		SHEEL 3 OF 3		CONTRACT NO. 63627
TING		PLOT DATE = 7/1/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID	







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:
- Q) 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:
- o) 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 LAME 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.

SCALE:

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

HRGreen	HRGreen.com Illinois Professional Design Firm # 184-001322
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USER NAME = MFeller	DESIGNED JRS	REVISED -	Ī
	DRAWN JRS	REVISED -	
PLOT SCALE =	CHECKED APS	REVISED ~	
PLOT DATE = 7/1/2011	D'ATE -	REVISED ~	
			-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFI	C CONTROL	AND PR	OTECTION	DETAIL
	ROADS, INT			

SHEET NO. OF SHEETS STA.

F.A.P. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
360	09-002	39-00-TL	KANE	37	36
			CONTRACT	NO. (63627
FFD RO	DAD DIST NO	THE THOIS FED.	ATD PROJECT		

TRAFFIC SIGNAL - FIBER 'T' SPLICE

CORNING 144	WHITE TUBE	61	62	FIBI 63	64	65	66		FIBER 66 65 64 63 62 61	CORNING 144
	WILL TOPE	١								
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1 EACH: TYCO FOSC 450 B CLOSURE

INCLUDED IN STD. 450 B6: 1 EACH: STD. 6 TRAY 1 EACH: 6-HOLE PORT 1 EACH: TRACER GROUND LUG

SCALE:

HRGreen	HRGreen.com Illinois Professional Design Firm # 184-001322
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	USER NAME = MFeller	DESIGNED JRS	REVISED -
		DRAWN JRS	REVISED -
*	PLOT SCALE =	CHECKED APS	REVISED -
	PLOT DATE = 7/1/2011	DATE -	REVISED -

STATI	E OI	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
FIBER OPTIC SPLICE DETAIL		360	09-00289-00-TL	KANE	37	37
		1		CONTRACT	NO.	63627
SHEET NO. OF SHEETS STA.	TO STA.	FED. RO	DAD DIST. NO. ILLINOIS FED. A	ID PROJECT		