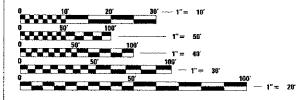
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS SEE SHEET NO. 2

EXISTING ADT (2008) = COMMONS DRIVE: 13,500 McCOY DRIVE: 9,700

POSTED / DESIGN SPEED = 30-35 M.P.H. DESIGN DESIGNATION = MINOR 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: 63816

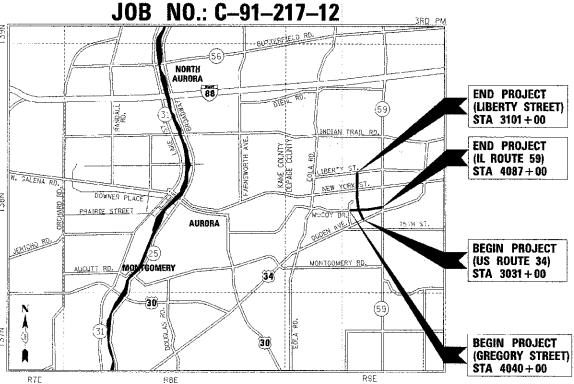
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 1531 (McCOY DRIVE)
GREGORY STREET TO ILLINOIS ROUTE 59
AND

FAU 2532 (COMMONS DRIVE)
US ROUTE 34 TO LIBERTY STREET
TRAFFIC SIGNAL INTERCONNECT
SECTION 11-00297-00-TL
PROJECT NO. CMM-9003(939)
DUPAGE COUNTY

DUPAGE COUNTY
CITY OF AURORA



SCALE: N.T.S

PROJECT GROSS LENGTH = 7,000.00 FEET = 1.33 MILES (COMMONS DRIVE)

= 4,700.00 FEET = 0.89 MILES (McCOY DRIVE)

PROJECT NET LENGTH = 7,000.00 FEET = 1.33 MILES (COMMONS DRIVE) = 4,700.00 FEET = 0.89 MILES (McCOY DRIVE)

Mottlew T. Feller, P.S.

MATTHEW J. FELLER, P.S.

NO. 062-065169

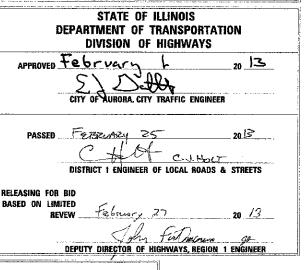
EXPIRES: 11/30/2013

HR GREEN, INC.

F.A.II. SECTION COUNTY TOTAL SHEETS NO. 1521/2532 11-00297-00-TL DUPAGE 38 1

CONTRACT NO. 63816

| CASTON | STEVENSON | STEVENSON | STONE | LASE | L



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651 PRAIRIE POINTE, SUITE 201 | YORKVILLE, ILLINOIS 60560 Phone: 630.553.7560 | Toli Free: 600.728,7805 | Fax: 630.553.7646 | HRGreen.com ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406, SCHAUMBURG, IL

INDEX OF SHEETS

		COVER SHEET
		INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS
		SUMMARY OF QUANTITIES
-	9	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
		TRAFFIC SIGNAL MODIFICATION PLAN - COMMONS DRIVE AT OGDEN AVENUE (US ROUTE 34)
		CABLE PLAN AND PHASE DESIGNATION DIAGRAM - COMMONS DRIVE AT OGDEN AVENUE (US ROUTE 34)
		TRAFFIC SIGNAL MODIFICATION PLAN - COMMONS DRIVE AT MCCOY DRIVE
		CABLE PLAN AND PHASE DESIGNATION DIAGRAM - COMMONS DRIVE AT MCCOY DRIVE
		TRAFFIC SIGNAL MODIFICATION PLAN - COMMONS DRIVE AT RAINTREE ROAD
		CABLE PLAN AND PHASE DESIGNATION DIAGRAM - COMMONS DRIVE AT RAINTREE ROAD
		TRAFFIC SIGNAL MODIFICATION PLAN - COMMONS DRIVE AT NEW YORK STREET
		CABLE PLAN AND PHASE DESIGNATION DIAGRAM - COMMONS DRIVE AT NEW YORK STREET
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		CABLE PLAN AND PHASE DESIGNATION DIAGRAM - COMMONS DRIVE AT LIBERTY STREET
		TRAFFIC SIGNAL MODIFICATION PLAN - McCOY DRIVE AT GREGORY STREET
		CABLE PLAN AND PHASE DESIGNATION DIAGRAM - MCCOY DRIVE AT GREGORY STREET
		TRAFFIC SIGNAL MODIFICATION PLAN - MCCOY DRIVE AT MERRIAM DRIVE
		CABLE PLAN AND PHASE DESIGNATION DIAGRAM - MCCOY DRIVE AT MERRIAM DRIVE
		TRAFFIC SIGNAL MODIFICATION PLAN - MCCOY DRIVE AT VENUTI DRIVE
		CABLE PLAN AND PHASE DESIGNATION DIAGRAM - MCCOY DRIVE AT VENUTI DRIVE
		TRAFFIC SIGNAL MODIFICATION PLAN - MCCOY DRIVE AT IL ROUTE 59
		CABLE PLAN AND PHASE DESIGNATION DIAGRAM - MCCOY DRIVE AT IL ROUTE 59
-	32	INTERCONNECT PLAN
-	36	INTERCONNECT SCHEMATIC
		TRAFFIC CONTROL AND PROTECTION DETAIL

LIST OF HIGHWAY STANDARDS

000001	•	06	STANDARD SYMBOLS,	ABBREVIATIONS AND PATTERNS

424001 - 07 PERPENDICULAR CURB RAMPS FOR SIDEWALKS

424006 - 01 DIAGONAL CURB RAMPS FOR SIDEWALKS

424011 - 01 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS

424021 - 01 DEPRESSED CORNER FOR SIDEWALKS

606001 - 05 CONCRETE CURB TYPE BIAND COMBINATION CONCRETE CURB AND GUTTER

701601 - 08 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

701701 - 08 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701891 - 05 LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE

701901 - 02 TRAFFIC CONTROL DEVICES

720001 - 01 SIGN PANEL MOUNTING DETAILS

720006 - 03 SIGN PANEL ERECTION DETAILS

720016 - 03 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

878001 - 09 CONCRETE FOUNDATION DETAILS

880006 - 01 TRAFFIC SIGNAL MOUNTING DETAILS

886001 - 01 DETECTOR LOOP INSTALLATIONS

886006 - 01 TYPICAL LAYOUTS FOR DETECTION LOOPS

# 184-00 (322)	H33 HBGreen	HRGreen.com Ninols Professional Design Firm # 184-09/1322
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USER NAME = MFelle-	DESIGNED - MJF	REVISED -
PUDT SCALE =	CHECKED - APS	REVISED -
PLOT DATE = 2/22/2713	DATE - 02/21/2013	REVISED -
FILE NAME = 698_10_index.dgn		REVISED -

FIBER OPTIC SPLICE DETAIL

SHEET NO. OF SHEETS STA.

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5		11	-002	97-00-TL		DUPAGE	38	2
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PROFILE SCRAVERGO HOTE BOOK BANDES CHECKED BAN MOTED NO. STRUCTURE NOTAT		SURVEYED	GRADES CHECKED	B.M. NOTED	STRUCTURE NOTATIVE CHIKE

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	COMMONS DRIVE AT OGDEN AVENUE 0021	COMMONS DRIVE AT McCOY DRIVE 0021	COMMONS DRIVE AT RAINTREE ROAD 0021	OOMMONS DRIVE AT NEW YORK STREET 0021	COMMONS DRIVE AT LIBERTY STREET 0021	McCOY DRIVE AT GREGORY STREET 0021	McCOY DRIVE AT MERRIAM DRIVE 0021	McCOY DRIVE AT VENUTI DRIVE 0021	McCOY DRIVE AT IL ROUTE 59 0021	INTERCONNECT 0021
42400300	PORTLAND CEMENT CONCRETE SIDEWALK & NCH	SQFT	666	36	81	207		45	153	144			
42400800	DETECTABLE WARNINGS	SQFT	96	7	9	30	<u>. </u>	10	28	13			
4000600	SIDEWALK REMOVAL	SQFT	522	36	81	207		45	153		-		
7000500	D ENGINEER'S FIELD OFFICE, TYPE B	CALMO	3	0.3	0.3	0.3	0.3	0.3	0:3	0.3	0.3	0.3	0.3
7100100		LSUM		0.1	8.1	0.1							
		1	1		-		0.1	0.1	0,1	0.1	0.1	0.1	0.1
102630		LSUM	11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6.1	0.1	0.1
70102635	5 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	. 1	0.1	0.1	0.1	0.1	0.1	0,1	0.1	G.1	0.1	0.1
70102840	TRAFFIC CONTROL AND PROTECTION STANDARD 701801	LSUM	1	0,1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0,1
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	450	186		134				130			
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	52			24				28			
78300100	PAVEMENT MARKING REMOVAL	SQFT	155			66				89			
80500010						/,							
		EACH			1	1		11	1	1	1	1	
80500020		EACH	1	1									
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	9561	196					· · · · · · · · · · · · · · · · · · ·	247	486	272	B380
1400100) HANDHOLE	EACH	26	1						1	2	1	21
35000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	18	1	···- ·· · · · · · · · · · · · · · · · ·	1	1	1	1	1	1		1
8400100	TRANSCEIVER - FIBER OPTIC	EACH	8										8
7100020		FOOT	16291.5								<u> </u>		
													16291.5
7300010		EÁCH	57	6	. 8	9		7	6	8	6	7	
7300925		FOOT	16291.5				:,						16201.5
301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	5580,5	489	476	804		1314	1516	498	483.5		
301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6146	581.5	553.5	832		1433,5	1572	512	497.5	164	
7301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	11412.5	1471,5	1605	1118	734	690		2281	1926	898	
730 (805		FOOT	780	122	185.5					:			
						24.5		29.5	20.5	195.5	174	28.5	
7301900		FOOT	5206	895	806	687	1	750	709	808.5	552	589	
7900200	DRILL EXISTING HANDHOLE	EACH	32	1		6				10	2	1	12
8102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14	2	2	4		2		2	2		
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6					2	4				
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	11		4	2	1			2	2		
8500100	ANDUCTIVE LOOP DETECTOR	EACH	70	a l	12	g .		10		10	9	10	1
8600100		FOOT	1761	130		804		10	////		1		
		1		130		804				378	183	86	
88700200	7.1 1995 A 1 2 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	EACH	1	1	· · · · · · · · · · · · · · · · · · ·							1	
88700900	LIGHT DETECTOR AMPLIFIER	EACH	9	11	1	1	1	1	1	1	1	1	ļ
8800100	PEDESTRIAN PUSH-BUTTON	EACH	28	2	2	4		6	8	2	2		
89502215	MODIFY EXISTING CONTROLLER FOUNDATION	EACH	7	1	1	1		1		1	1	1	
9502300	REMOVE ELECTRIC CASLE FROM CONDUIT	FOOT	7185	f114	186	25		3088	2375	196	174	29	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8	1									
	FIBER OPTIC CABLE SPLICE		ļ.,			<u>'</u>					1	1	<u> </u>
		EACH	1				:						1
	ETHERNET SWITCH	EACH	5			1			1	1	1		1
326812	CAT 5 ETHERNET CABLE	FOOT	280	78.5	63.5		:	77.5				60.5	
8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	ÉÁCH	7	1	1	T	:	1		1	i	1	
620200	UNNTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	9	1	1	1		1	1	1	1	1	-
730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	103.5								-	103.5	
6303082		EACH	4fl	5	4	6.							
						4		4		9	9	6	<u> </u>
803084		EACH	27	3	4	2		4	4		2	6	
3803110		EACH	5						2				
803120	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	. 2						2				<u> </u>
803088	SKINAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	11	1			.:	4	2			4	
B803210	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	30	1	8	4		4	2	4	3		
XD07251		EACH	3	1	1								
002052		EACH	1										
			<u></u>								·	 	,
X007993	CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	LSUM	1								 		
0007993			1 26	3	3	3		4	4	3	4		
00000565	CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	L SUM		3	3	3		4	4	3	4	2	+
0007993 0006565 0033056	CENTRALIZED SYSTEM FELD INTEGRATION / SETUP EVP CONFIRMATION DEACON, LED RETROFIT. OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM EACH		3	3	3		4	4	3	4	2	†
X007993 X006565 D033056	CENTRALIZED SYSTEM FELD INTEGRATION / SETUP EVP CONFIRMATION DEACON, LED RETROFIT OPTIMIZE TRAFFIC SIGNAL SYSTEM TRAINEES.	L SUM EACH EACH HOUR	26 1 500	3	3	3		4	4	3	4	Z	1
0007993 0008565 20033056 20078800 20078604	CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP EVP CONFIRMATION BEACON, LED RETROFIT OPTIMIZE TRAFFIC SIGNAL SYSTEM TRAINEES TRAINEES TRAINING PROGRAM GRADUATE	EACH EACH	26	3	3	3		4	4	3	4	F.A. R16	

*SPECIALTY ITEMS
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TYPE 0042

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#164-001822

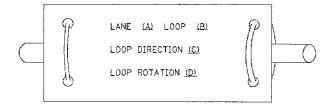
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

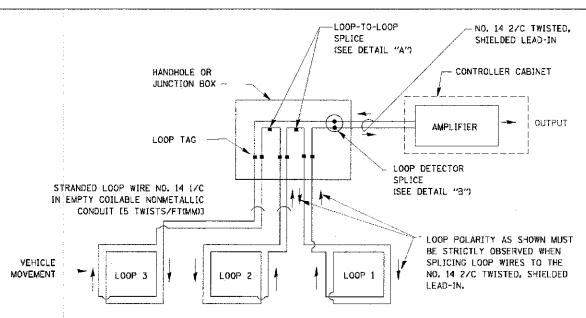
LOOP DETECTOR NOTES

- 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

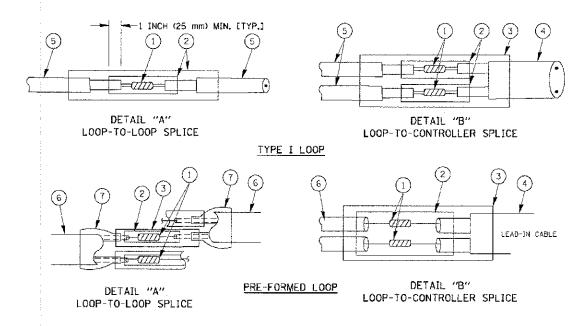


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

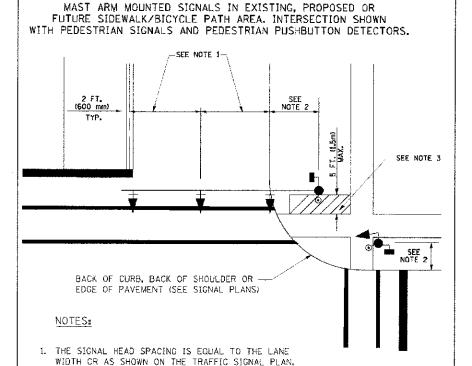
- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
 THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



LOOP DETECTOR SPLICE

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

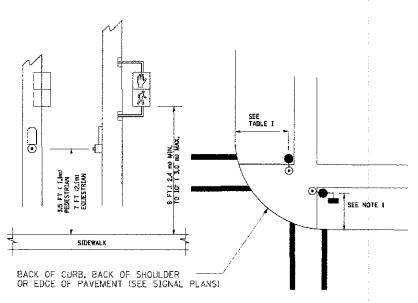
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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

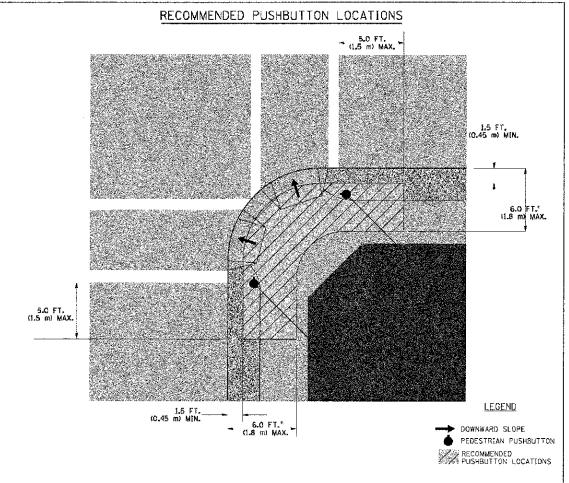
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO 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."

<u>PEDESTRIAN SIGNAL POST</u> <u>AND</u> <u>PEDESTRIAN PUSH BUTTON POST</u>



NOTES:

- i. 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.
- 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 CROSSWAŁK.
- 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.

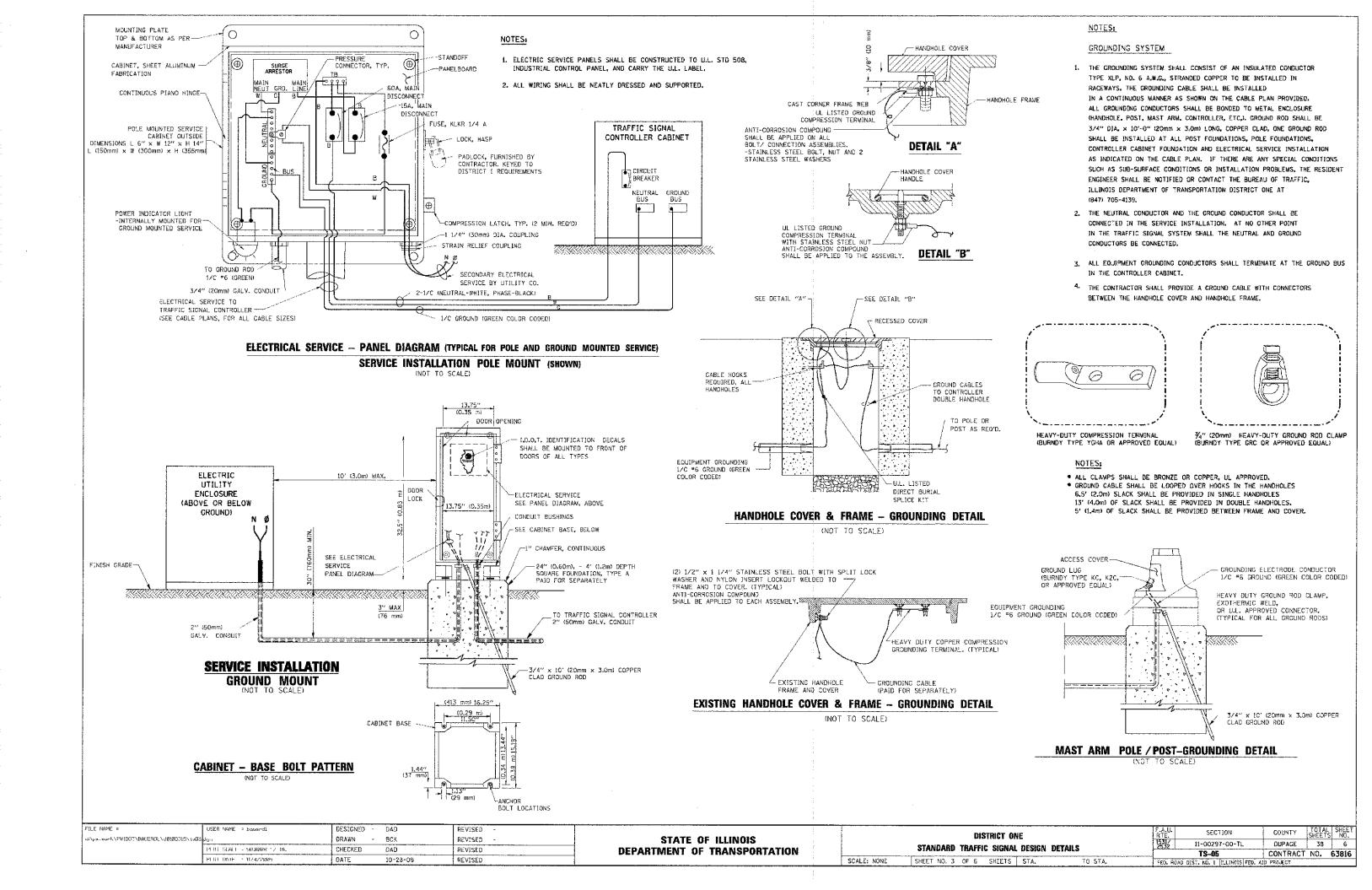
TRAFFIC SIGNAL EQUIPMENT OFFSET

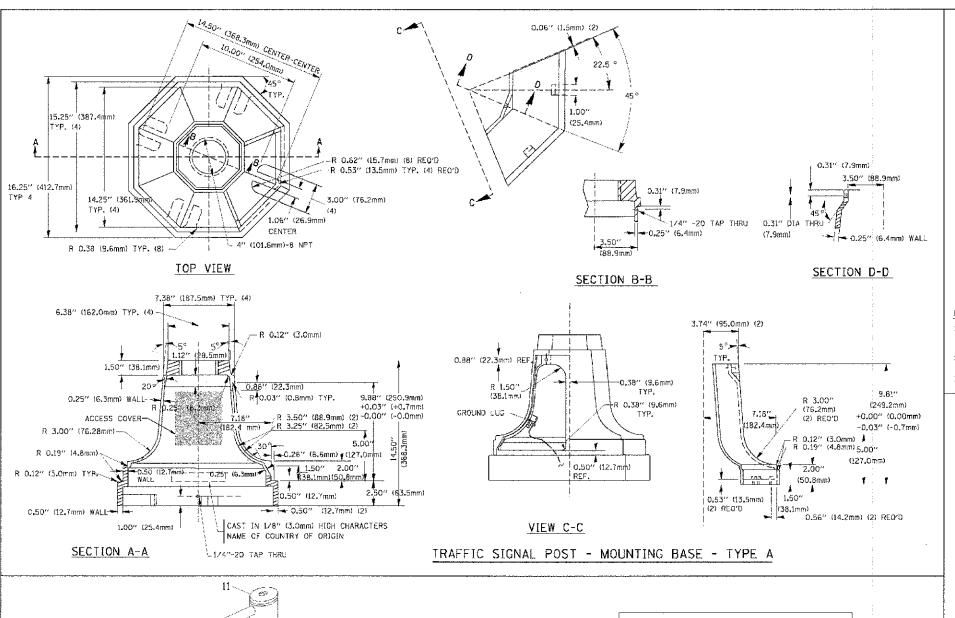
	TRACTO STORAL COST MICH	O: F QL
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 F∜ (1.8m)	SHOULDER WID7H + 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.

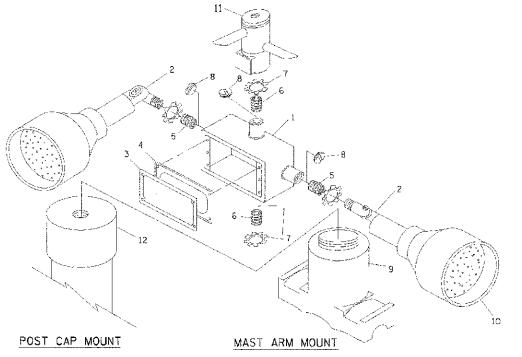
NOTES:

- 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.

FILE NAME = USER NAME = toward DESIGNED DAD REVISED SECTION COUNTY 3.000127777085F68/LOOTAS/334447879 BCK REVISED STATE OF ILLINOIS 11-00297-00-TL DUPAGE 38 STANDARD TRAFFIC SIGNAL DESIGN DETAILS J. SEACE - SZAMBE Z. IN. CHECKED DAD REVISED DEPARTMENT OF TRANSPORTATION TS--05 CONTRACT NO. 63816 DATE 10-28-09 REVISED SCALE: NONE SHEET NO. 2 OF 6 SHEETS STA. TO STA. SED, ROAD DIST, NO. 1 ILLINOIS FED, AID PROJECT







EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

3 STALE - SSEMENT

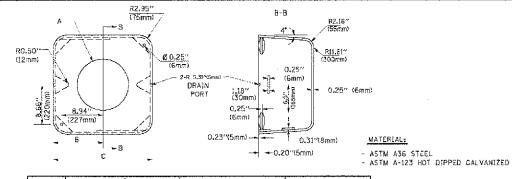
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NOW THE STORES AND ACTUAL POLICY OF THE PROPERTY OF THE PROPER

ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV, 21 CH.IN, (0.000344 CL-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	1/4"(19 mm) LOCKNUT
8	¾,''(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 *IJ 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/"19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

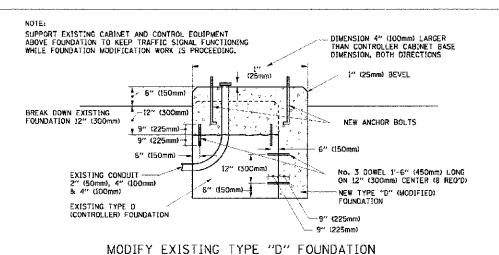


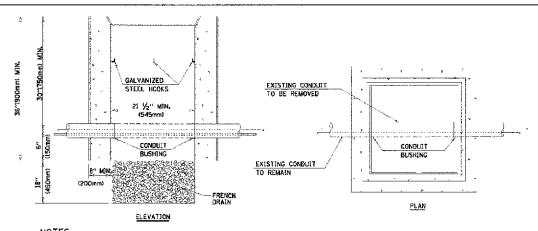
A	8	C	HEIGHT	WEIGHT
VARIES	9.5"(24[mm)	19"(483mm)	7" (178mm) ~ 12" (300mm)	53 (bs (24kg)
VARIES	10.75"(273mm)	21.5″(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	.7" (178mm) - 12" (360mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37":940mm)	7" (178mm) - 12" (300mm)	126 ibs (57 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.



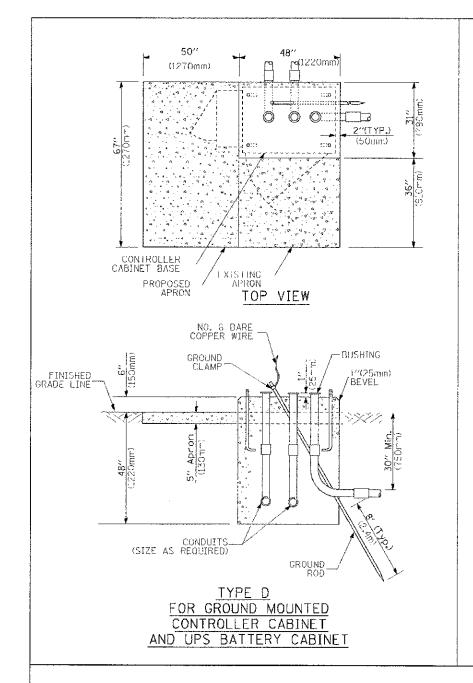


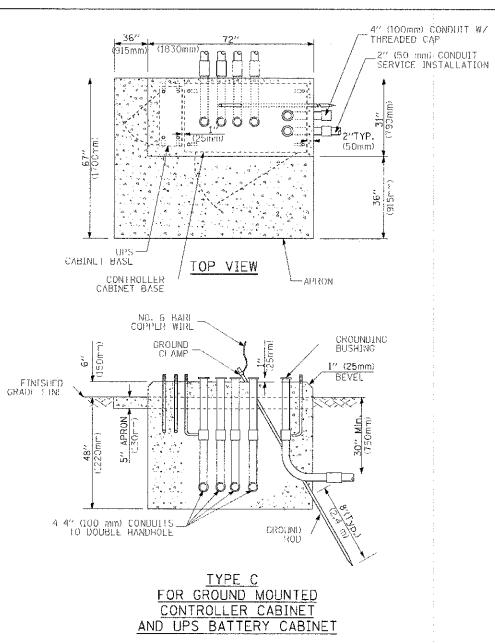
NOTES:

- 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

e)	DESIGNED - DRAWN -	DAD BCK	REVISED - REVISED -	STATE OF ILLINOIS	F.A.U. SECTION COUNTY TOTAL SHEET NO. 15 11 - 00297 - 00 - TL DUPAGE 38 7
MOLITZ IN.	CHECKED	DAD CA	REVISED	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS TS-05 CONTRACT NO. 63816
PK34	DATE	10-28-09	REVISED		SCALE: NONE SHEET NO. 4 OF 6 SHEETS STA. TO STA. FED. HOAD DIST, NO. 1 ILLINOIS FED. AID PROJECT





NOTES:

SEE NOTE 5

63" (SLL NOIL 4)

165 mm)

170 SEE NOTE 5

187 SEE NOTE 5

187 SEE NOTE 5

188 SEE NOTE 5

- 1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (680mm 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 UNINTERSUPTIBLE 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 MUTS.
- 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+1	5.0+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-CROUND MOUNT)	3,0	1.0

HOT HINK TOE	E, CONTR	VLLER VA	DINE I	SERVICE
VERTI	CAL C	ABLE	LEN	NGTH

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 - SOUARE	4'-0" (1,2m)

DEPTH OF EQUIDATION

Mast Arm Length	(i) Foundation Depth	Faundation Dicmeter	Spira Diameter	Quantity of Rebars	Size of Rebors
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 equa: 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)

NOTES:

- These foundation depths are for sites which have cohesive soils (clayey sit, sandy clay, etc.) clang
 the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpc).
 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 most arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 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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««\ν»««»» \ Р««:00Т\ВАЙЕЯВЦ\ «Ø100315\ (ا يون 305	DRAWN	- BCK	REVISED -	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS SCALE, NOWE SHEET NO. 5, DE. 6, SHEETS, STA. TO STA.		1531/	11-00297-00-TL	DUPAGE	38 8
	PLB: BN (F = 11/4/2009	OATE OATE	10-28-09	REVISED	 DEPARTMENT OF TRANSPORTATION			FED BOAR	TS-05	CONTRACT	T NO. 63816

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL E	XISTING	PROPOSED
CONTROLLER CABINET	[>< R	\geq		EMERGENCY VEHICLE LIGHT DETECTOR	R	6	•	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C. UNLESS NOTED OTHERWISE		- D-	(1)
ALROAD CONTROL CABINET		<u> </u>		CONFIRMATION BEACON	[}] 0−0	0-Q		,		,	_
DMMUNICATIONS CABINET	[cc] ^R	FCG	CC	HANDHOLE	ĸ ∐	Ŋ		COAXIAL CABLE		Ø	<u> </u>
ASTER CONTROLLER		EMC	MC					VENDOR CABLE FOR CAMERA		Ø	
ASTER MASTER CONTROLLER	₽	FMMC	MMC	HEAVY DUTY HANDHOLE	H.	H	H			29	 -
NINTERRUPTIBLE POWER SUPPLY	[Ul'S]	[LUPS]	UPS	DOUBLE HANDHOLE	* @	17T)		COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		(ē)	6
RVICE INSTALLATION,) POLE OR (G) GROUND MOUNT	- <u>L.</u> - <u> </u> -	<u></u> -□_[,	- E	GALVANIZED STEEL CONDUIT	ĒŊ.	<u> </u>	•	FIBER OPTIC CABLE NO. 62.5/125, MM12F	-	-(<u>1</u> 2 <u>1</u> 5)	
ELEPHONE CONNECTION) POLE OR (G) GROUND MOUNT	R	P	٦	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	la .			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			—(24f)—
EEL MAST ARM ASSEMBLY AND POLE	R _O	0	•	AND CABLE	ĸ					7 -	
UMINUM MAST ARM ASSEMBLY AND POLE	£	O		COMMON TRENCH			C1	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		\preceq	~~~
EEL COMBINATION MAST ARM SEMBLY AND POLE WITH LUMINAIRE	R _O X	ро	• -x	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS)		·	
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH PTZ CAMERA	()	Q		SYSTEM ITEM INTERSECTION ITEM		S	S S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C ^H	Ç.
GNAL POST		0	•	REMOVE ITEM	В			CONTROLLER CABINET AND	RCF		
EMPORARY WOOD POLE (CLASS 5 OR	R⊗	⊗	∞ ∞	RELOCATE ITEM	RL		:	FOUNDATION TO BE REMOVED			
TTER) 45 FOOT (13.7m) MINIMUM				ABANDON ITEM	A	F-3		STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	CEMF		
Y WIRE	> K R	>	>-	12" (300mm) TRAFFIC SIGNAL SECTION		(R)	R	ALUMINUM MAST ARM FOLE AND	RMF C====		
CNAL HEAD	۵»	[>-	- *-	12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED	0		
CHAL HEAD CONSTRUCTION STAGES HABERS INDICATE THE CONSTRUCTION STAGES			2	YELLOW AND GREEN TRAFFIC SIGNAL FACE		Ö	R	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF ○→X		
GNAL HEAD WITH BACKPLATE	-H2	#>>	+-				Y	SIGNAL FOST AND FOUNDATION			
CABL PROGRAMMED	—t>•″+″	(>op#	opo	SIGNAL FACE			G ∢ Y	TO BE REMOVED	RMF O		
ASHER INSTALLATION DENOTES SOLAR POWER)	R CH2*/F/	O4≫"F"	→ "F"				4 6	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[15]	IS
DESTRIAN SIGNAL HEAD	H H	П	-16			R	R	SAMPLING (SYSTEM) DETECTOR			S
DESTRIAN PUSHBUTTON DETECTOR	(a) 3	(•	SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD			G	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	R	1 F. J	
CCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R (1) APS	@AF5				*	4 Y 4 G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR	TY.		
LUMINATED SIGN	8		9			''p''	ייקיי	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	R	[PP]	
O LEFT TURN"			(Z)	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING		115 125	P1S
LUMINATED SIGN O RIGHT TURN"		60	®	12" (300mm) PEDESTRIAN SIGNAL HEAD		M	<u> </u>	PREFORMED SAMPLING (SYSTEM) DETECTOR		÷ [PS
TECTOR LOOP, TYPE I				INTERNATIONAL SYMBOL, OUTLINED			· !	Simila Simila (STATE) DETECTOR		<u> </u>	1 1
REFORMED DETECTOR LOOP		i b 	P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			*	RAILROAD	2 INGIAV2		
	K_~	#- <u>-</u> -↓	4	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL		(1 2) 120 ←		NAILNUAD	O I MIDULO	1	
CROWAVE VEHICLE SENSOR	EW.	[M]I		SYMBOL, WITH COUNTDOWN TIMER		© C GDD	₽ C A D		EXIS	STING	PROPOSED
DEO DETECTION CAMERA	H (V)	lŷh		RADIO INTERCONNECT	[H ^R O	##	 } 	RAILROAD CONTROL CABINET	je:	∞ ¶	▶ ◀
DEO DETECTION ZONE		10 A A A A A A A A A A A A A A A A A A A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RADIO REPEATER	R ERR	[ERR	RR	RAILROAD CANTILEVER MAST ARM	70 <u>7</u> -	- 	XOX X
N, TILT, ZGOM CAMERA	ম শূক্রা	<u></u>	₽7 Z] (DENOTES NUMBER OF CONDUCTORS, ELECTRIC	1 m:///	A POSSILA	:	FLASHING SIGNAL	\(\)	↔⊠	X ⊕ X
			-	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		(5)	<u>—(5)—</u>	CROSSING GATE	X()	X ť	XOX-
RELESS DETECTOR SENSOR	R <u>R</u>	®	W	GROUND CABLE IN CONDUIT		04		CROSSBL::CK	>	K	*
RELESS ACCESS POINT				NO. 6 SOLID COPPER (GREEN)			①				1
MAME = USER INAME = bound) 		SIGNED - DAG/BCK AWN - BCK	REVISED REVISED	STATE	OF ILLINOIS	s		DISTRICT ONE	10,5	SECTION 00297-00-TL	COUNTY TOTAL SHEET DUPAGE 38
14 M SUALL - SALMONN 17	IN. CH	ECKED DAD	REVISED	DEPARTMENT			:	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		-65	CONTRACT NO.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM OUTSIDE THE RIGHT-OF-WAY AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (SEE SCHEDULE OF QUANTITIES FOR REMOVAL ITEMS TO BE PAID FOR SEPERATELY).

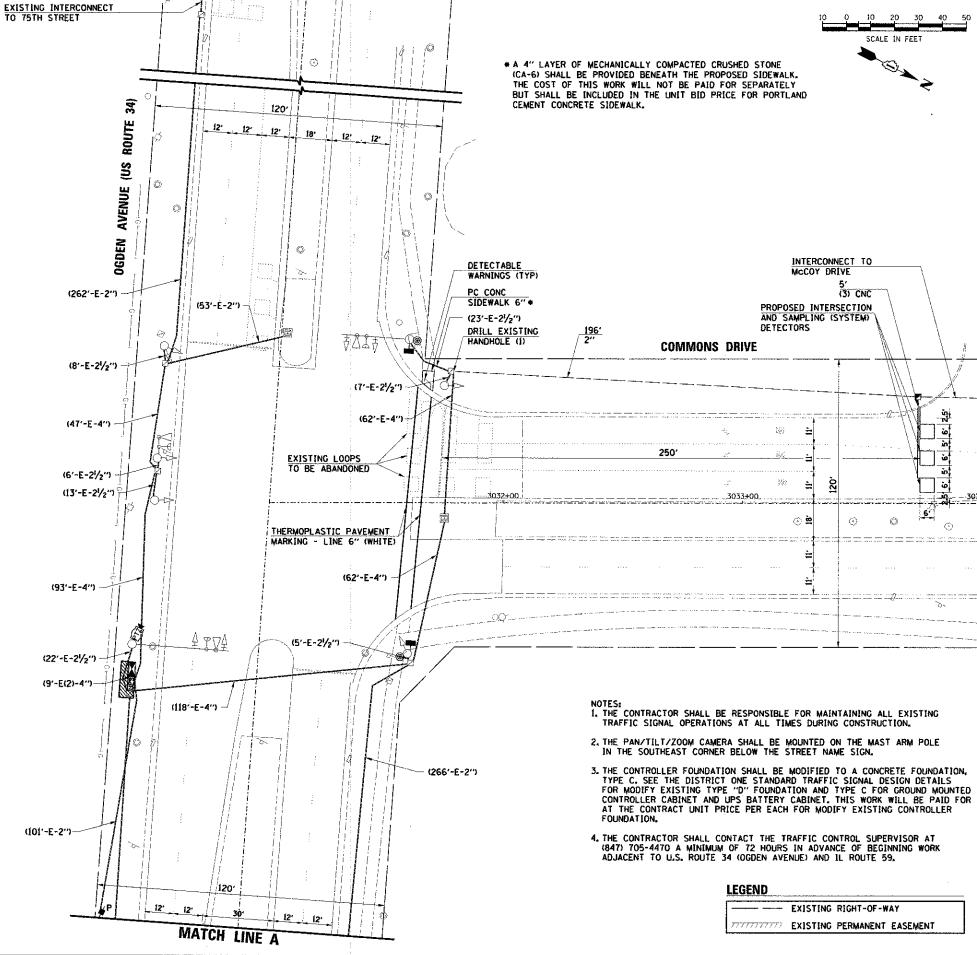
PEDESTRIAN SIGNAL HEADS
PEDESTRIAN PUSH BUTTONS
SERVICE INSTALLATION
TRAFFIC SIGNAL CABINET (COMPLETE)
TRAFFIC SIGNAL CONTROLLER EACH FACH EACH

> MATCH LINE A EXISTING INTERCONNECT
> TO TRADE STREET (O

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, LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

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.





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ISER NAME - MEeller DESIGNED MJF CHECKED - APS PLOT DATE = 2/22/2013 DATE - 02/21/2013 FILE NAME = 690_10_s1g028b_ogden.cigi

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODIFICATION PLAN **COMMONS DRIVE AT OGDEN AVENUE (US ROUTE 34)** SHEET NO. OF SHEETS STA.

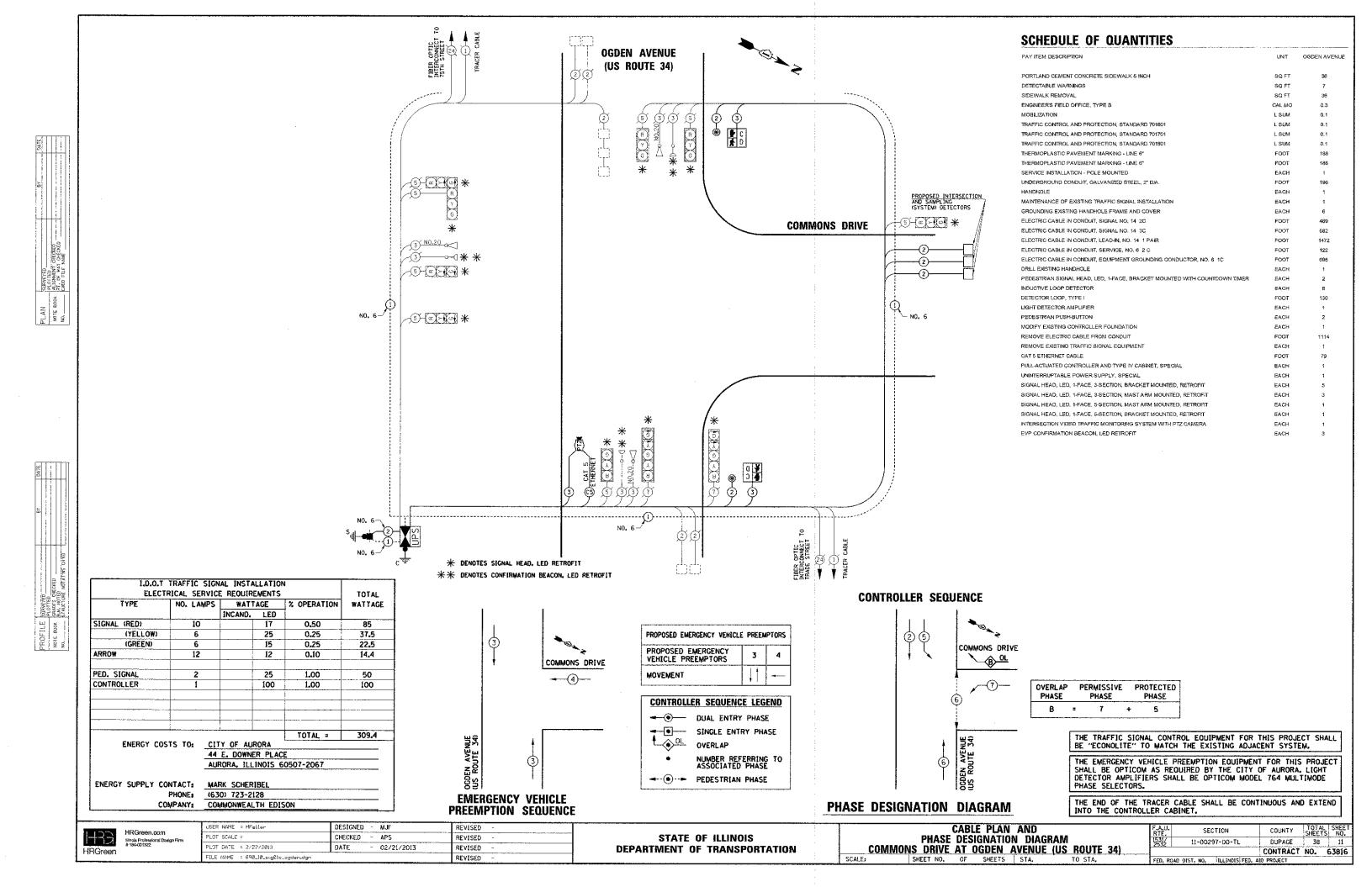
SECTION 11-00297-00-TL DUPAGE 38 10 CONTRACT NO. 63816

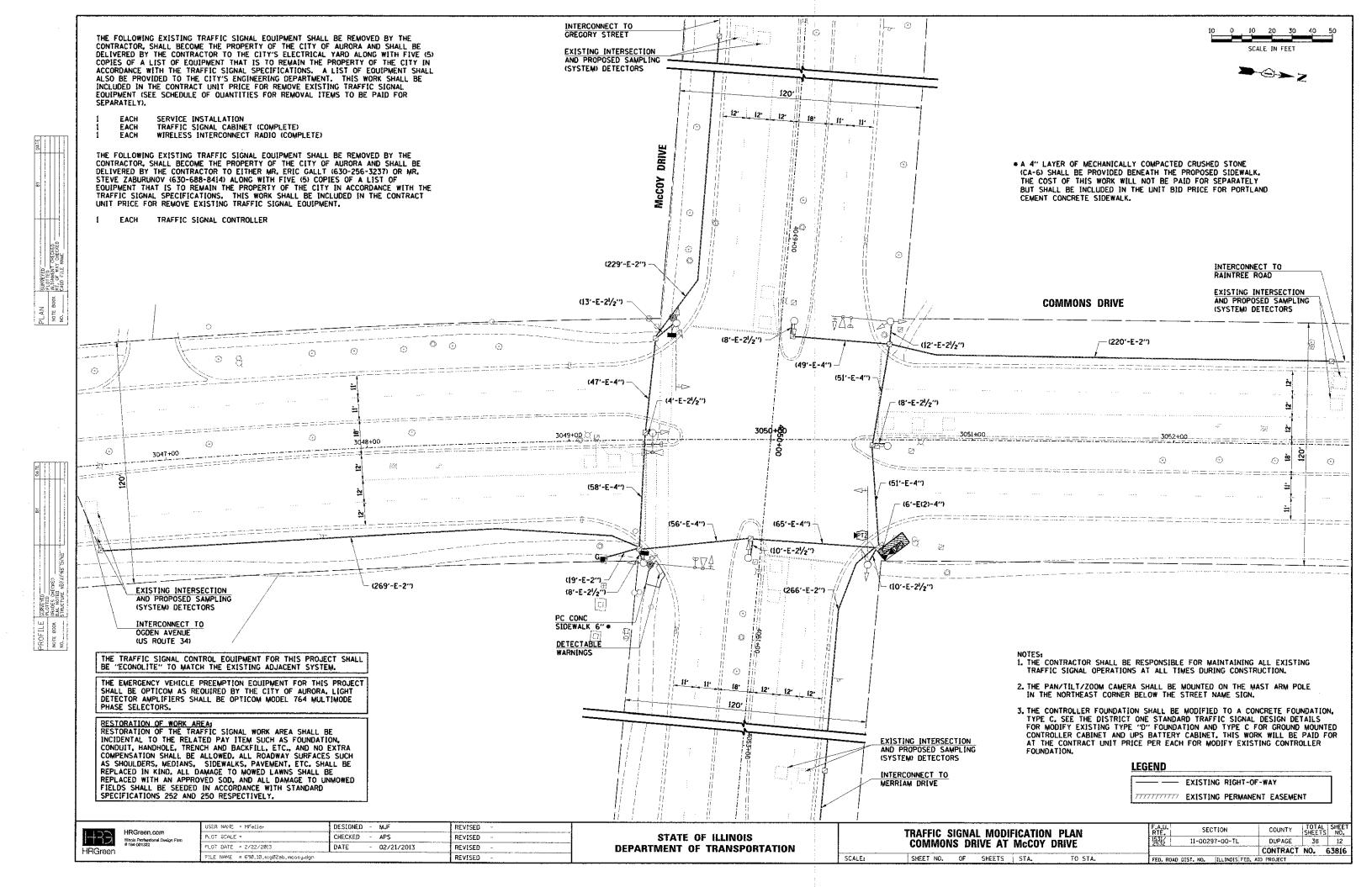
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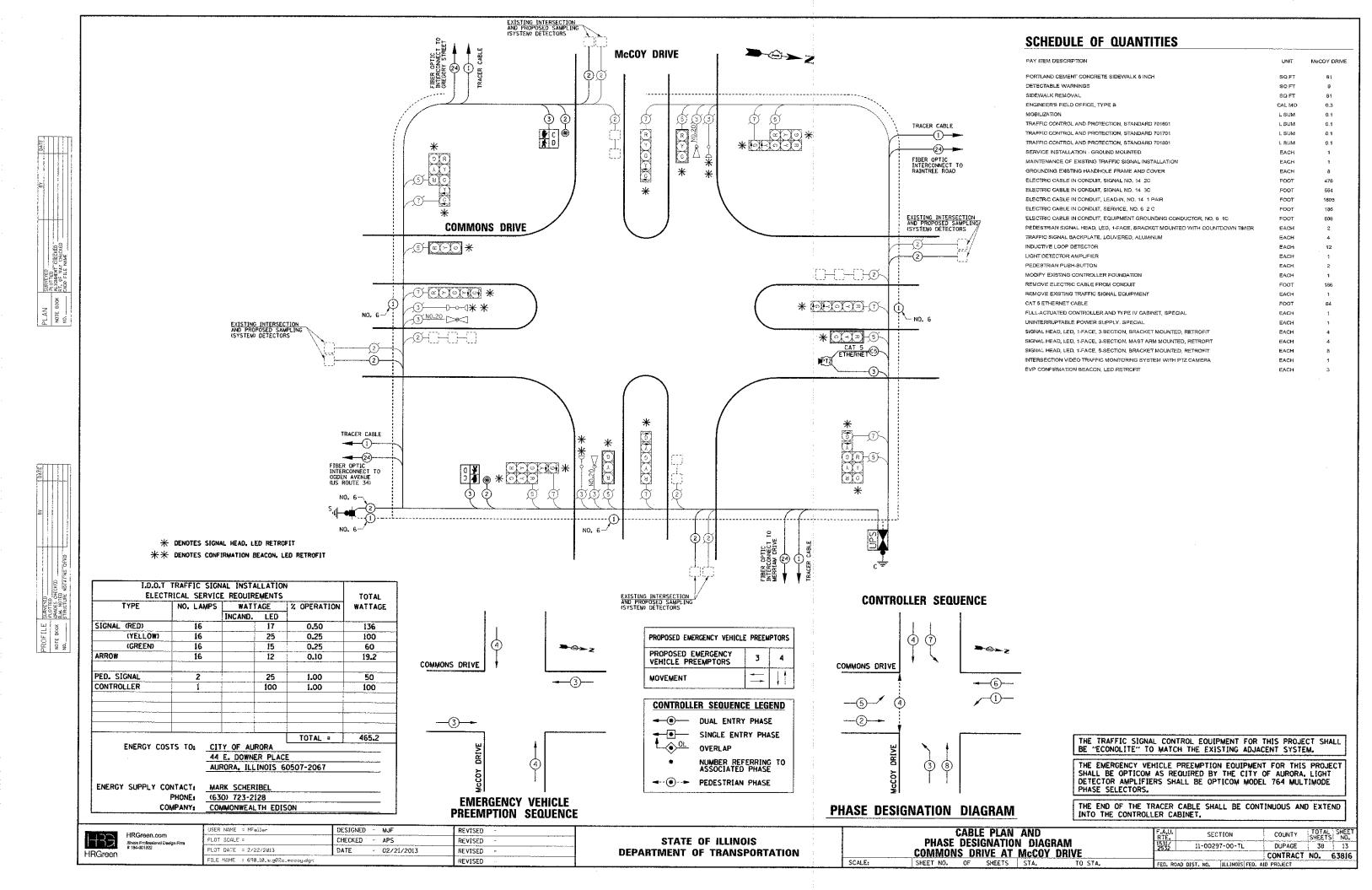
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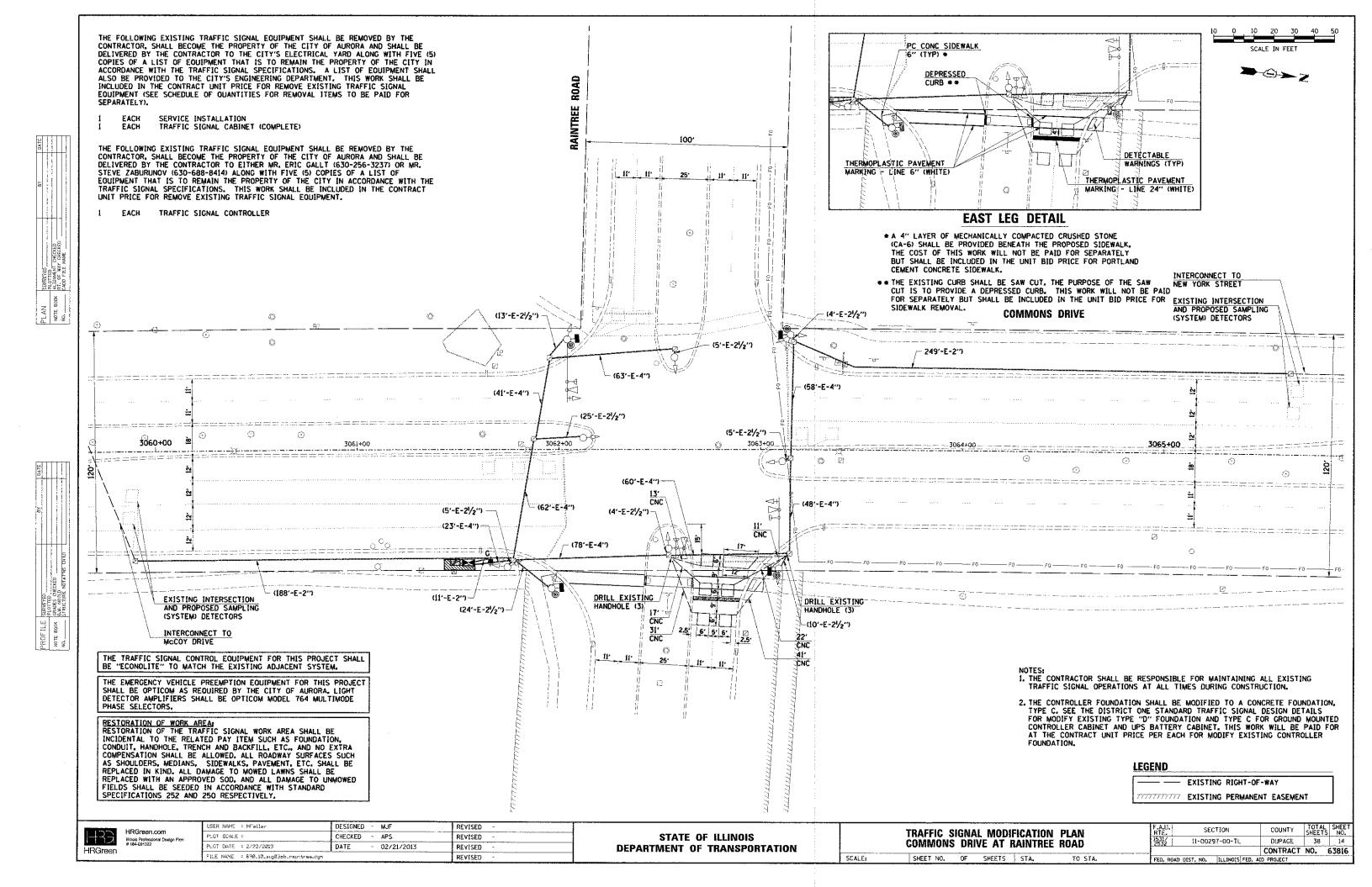
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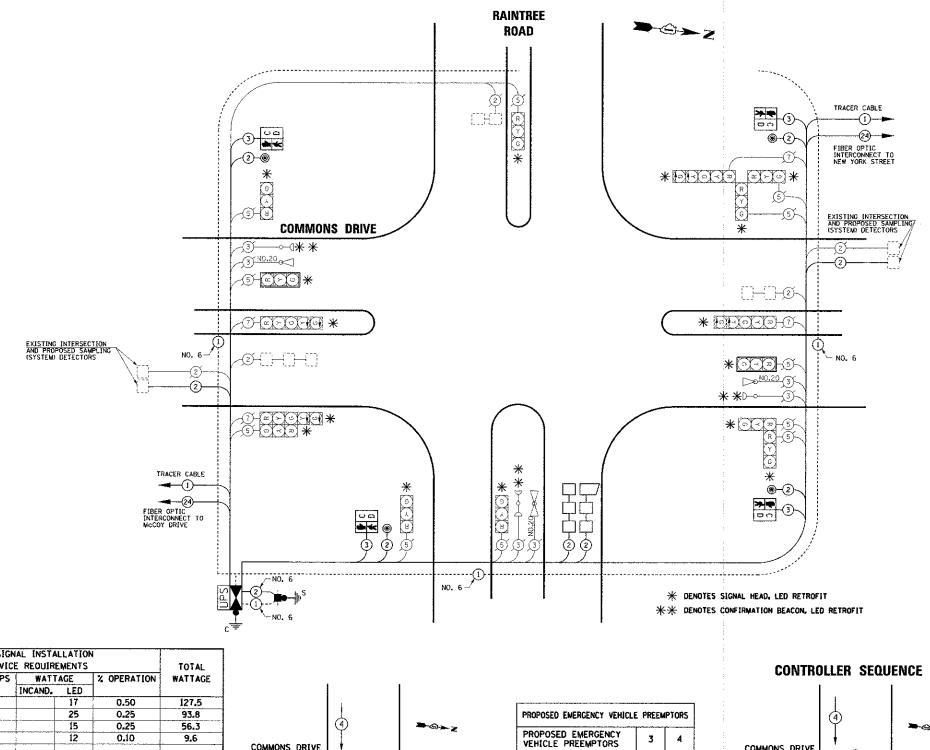
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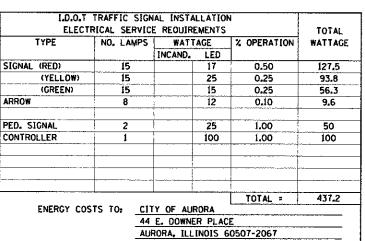






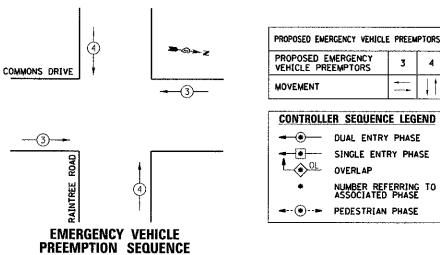
SCHEDULE OF QUANTITIES

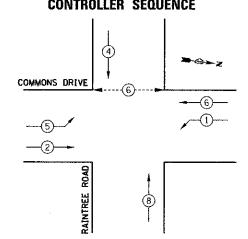
SUILFOLL OF GOVERNMENT		
PAY ITEM DESCRIPTION	UNIT	RAINTREE R
PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	207
DETECTABLE WARNINGS	SQ FT	30
SIDEWALK REMOVAL	SQ FT	207
ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	E.0
MOBILIZATION	LSUM	0,1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	s. SUM	0.1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	0.1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	0.1
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	134
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	24
PAVEMENT MARKING REMOVAL	SQ FT	66
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	9
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	804
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	F00 T	632
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1118
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	25
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	687
DRILL EXISTING HANDHOLE	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALLIMINUM	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	804
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	25
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4
EVP CONFIRMATION BEACON, LED RETROFIT	EACH	3



(630) 723-2128

COMMONWEALTH EDISON





PHASE DESIGNATION DIAGRAM

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

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ENERGY SUPPLY CONTACT: MARK SCHERIBEL PHONE:

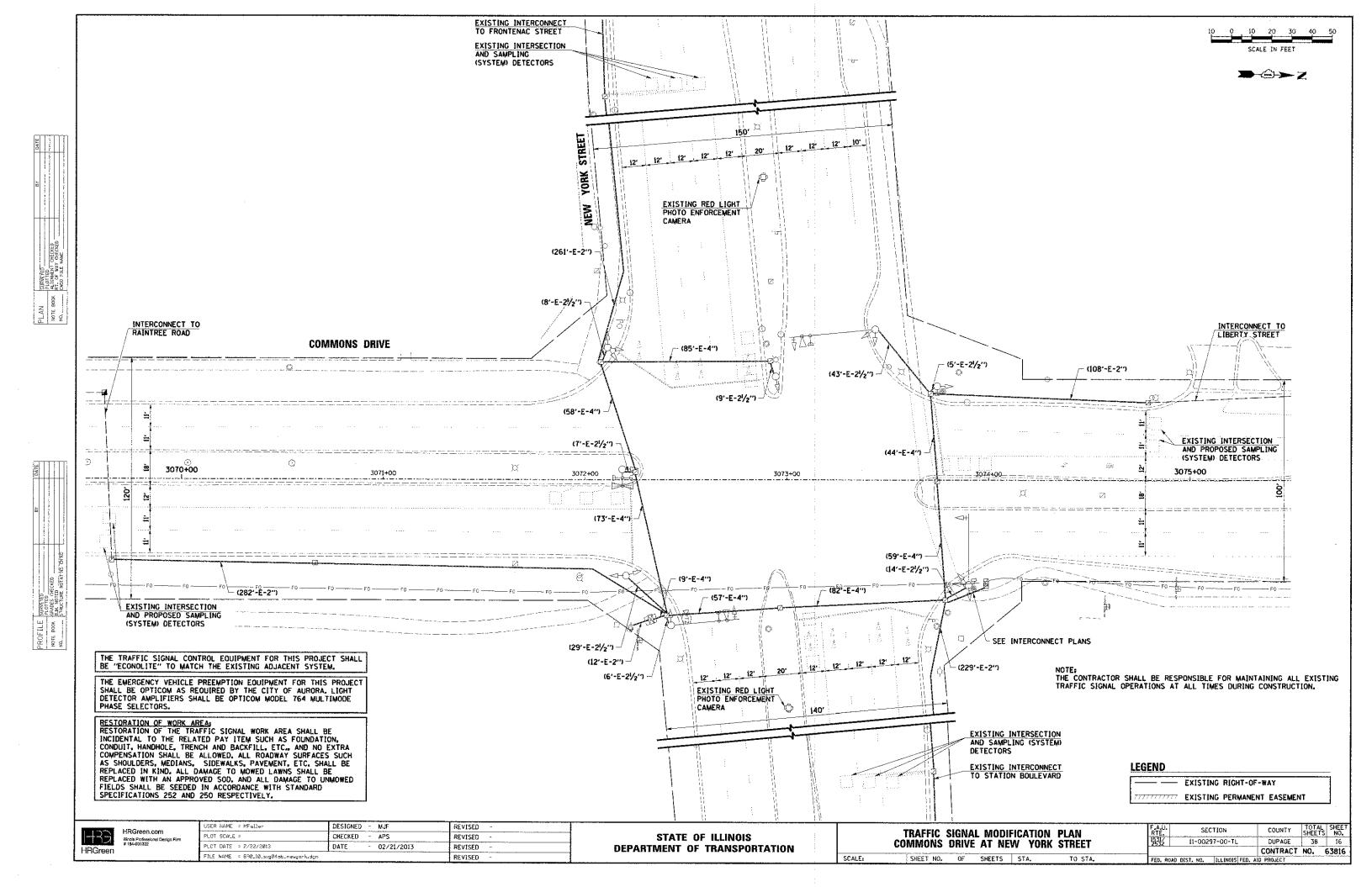
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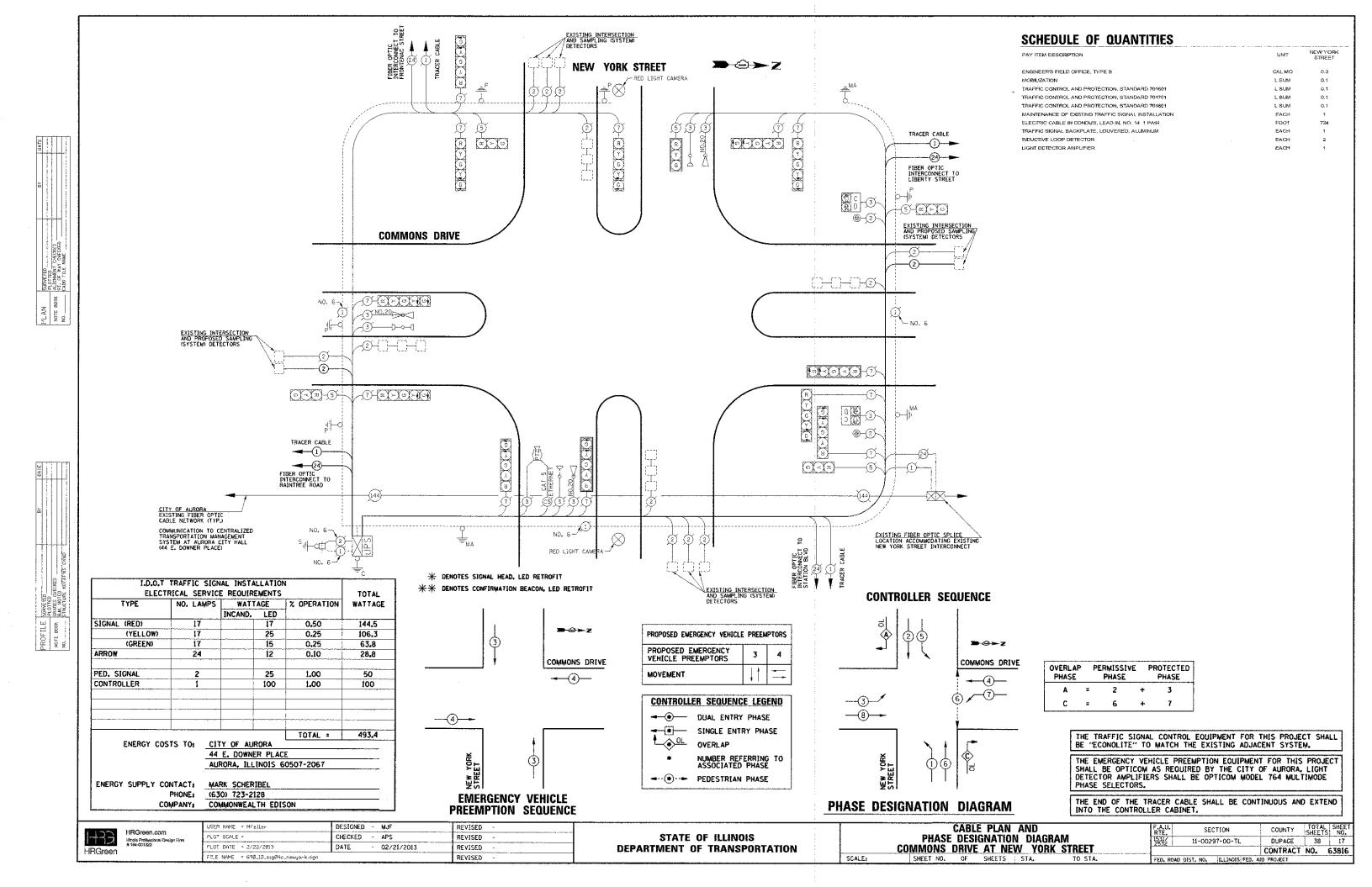
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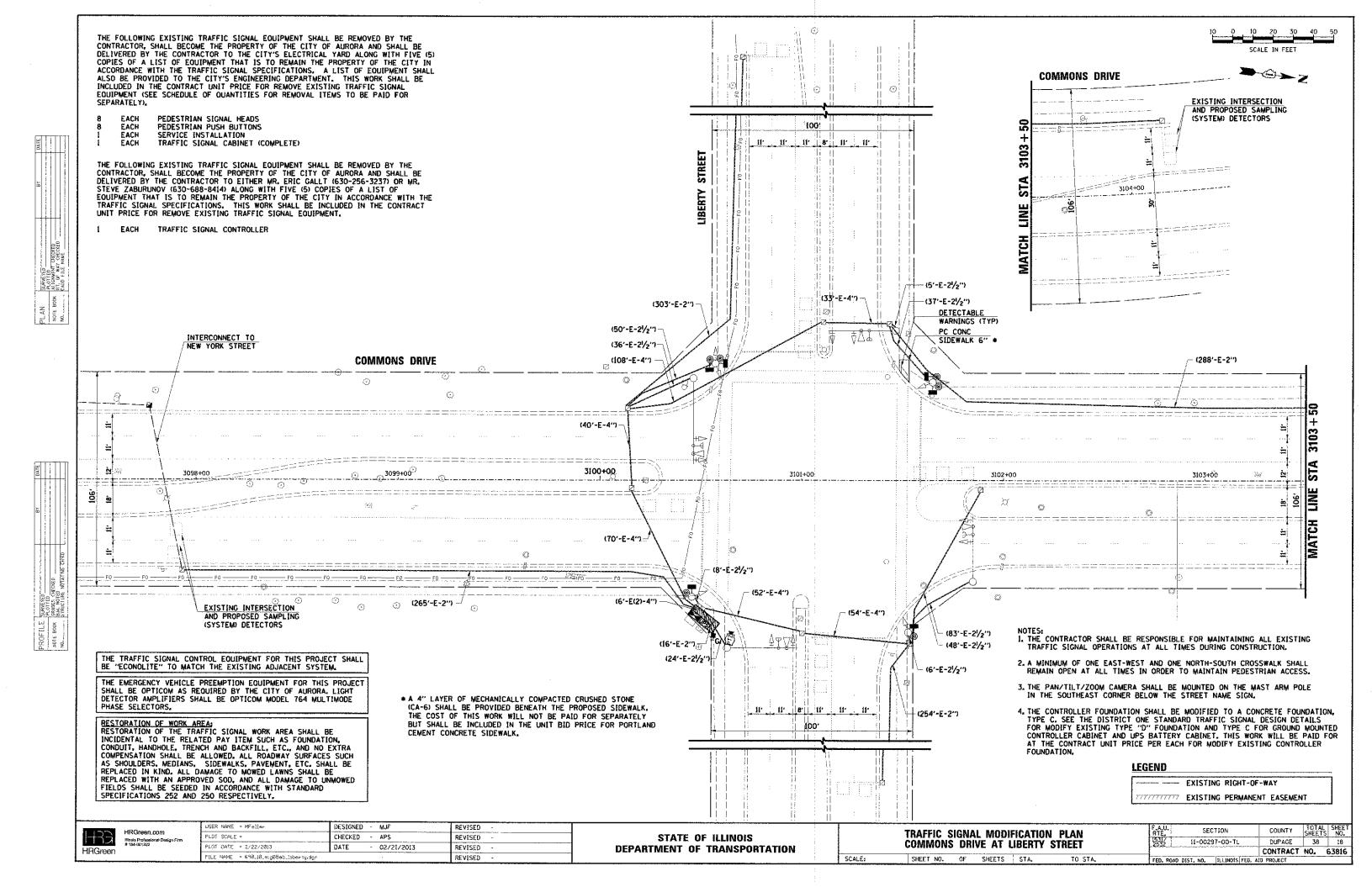
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

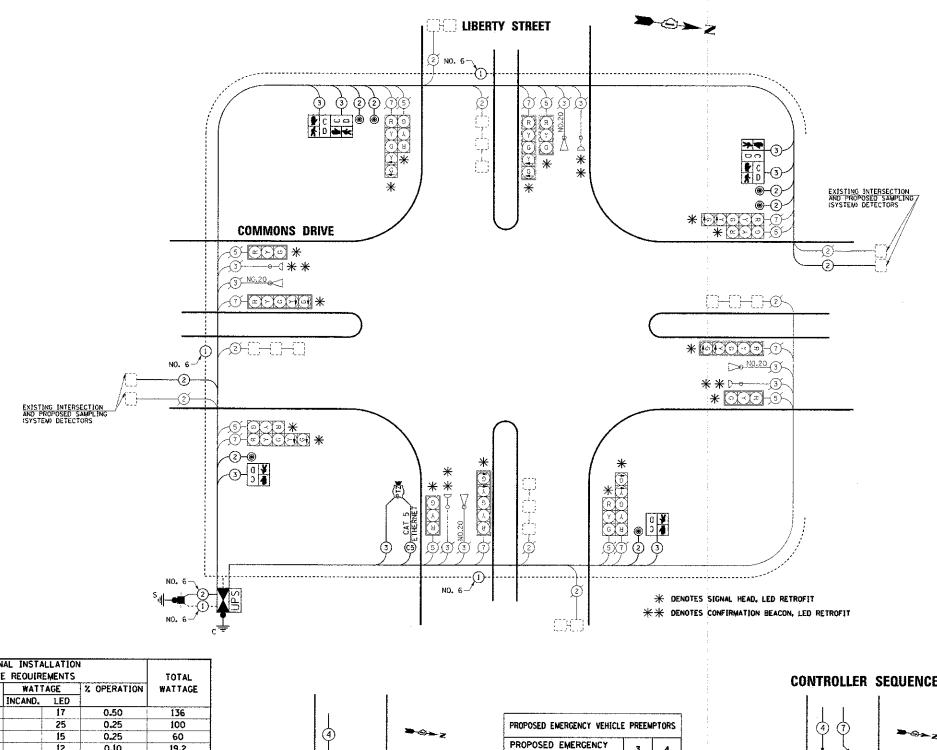
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PHASE	DESIG	NATIO	V DIAGRA	\M
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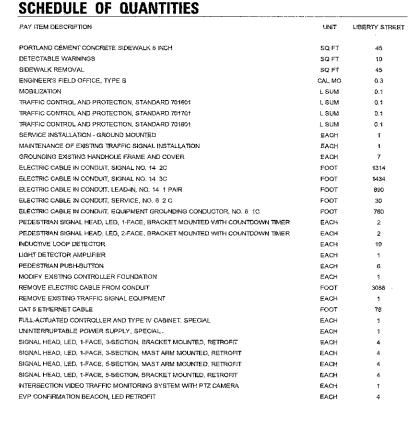
SECTION COUNTY SHEETS NO. 31/2 11-00297-00-TL DUPAGE 38 15 CONTRACT NO. 63816	D, RC	AD DIST. NO. (ILLINOIS FEB. A	ID PROJECT		
TE. SECTION COUNTY SHEETS NO.			CONTRACT	NO. (53816
	31/	11-00297-00-TL	DUPAGE	38	15
A FI TOTAL SHEET	A.U.	SECTION	COUNTY	TOTAL	SHEET NO.

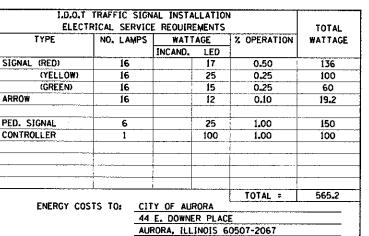






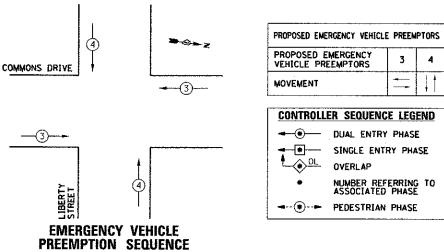


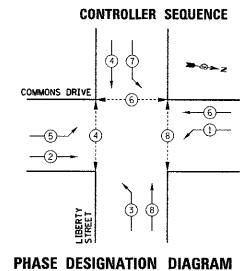




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COMMONWEALTH EDISON





SCALE:

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

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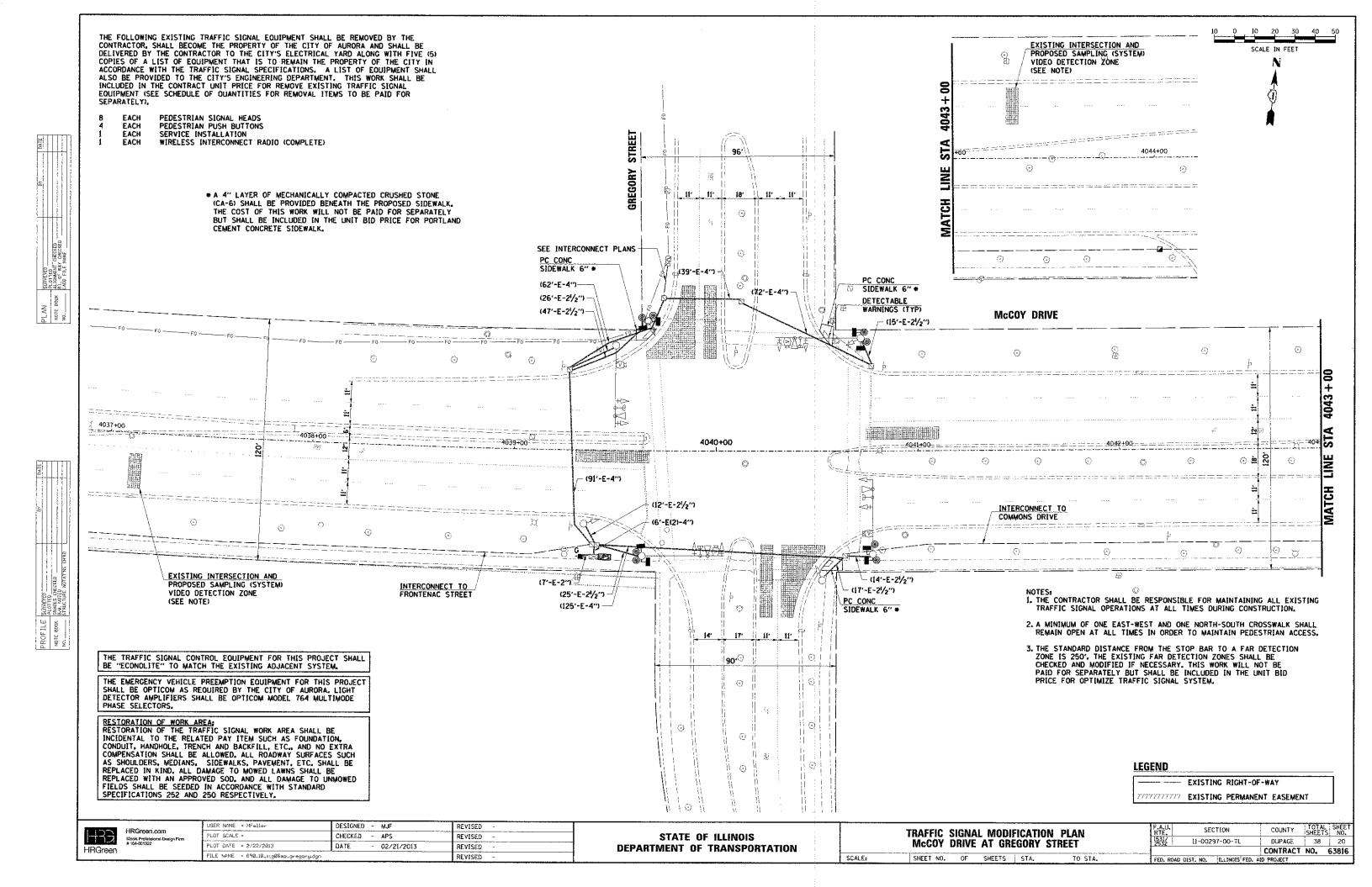
ENERGY SUPPLY CONTACT: MARK SCHERIBEL

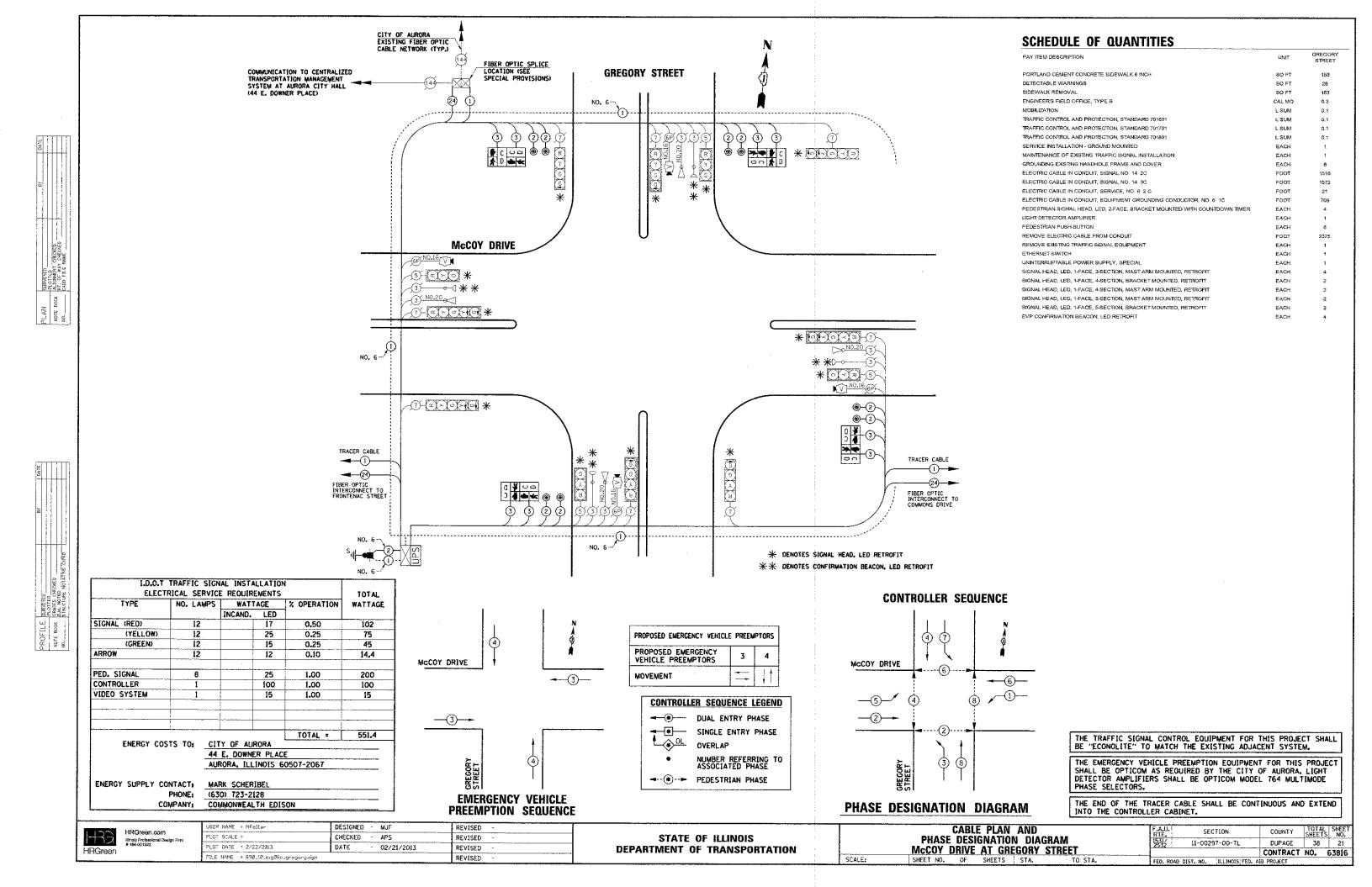
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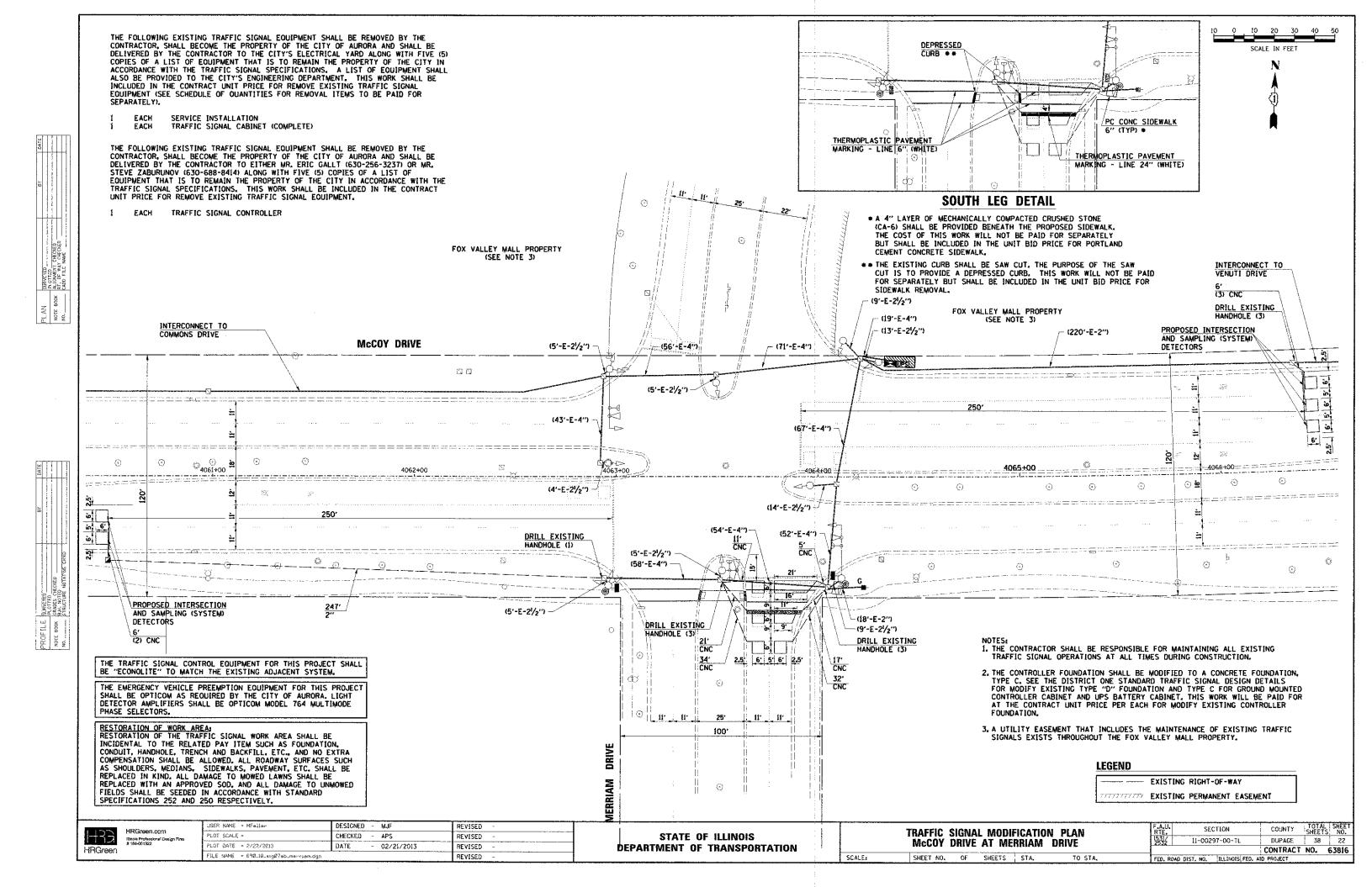
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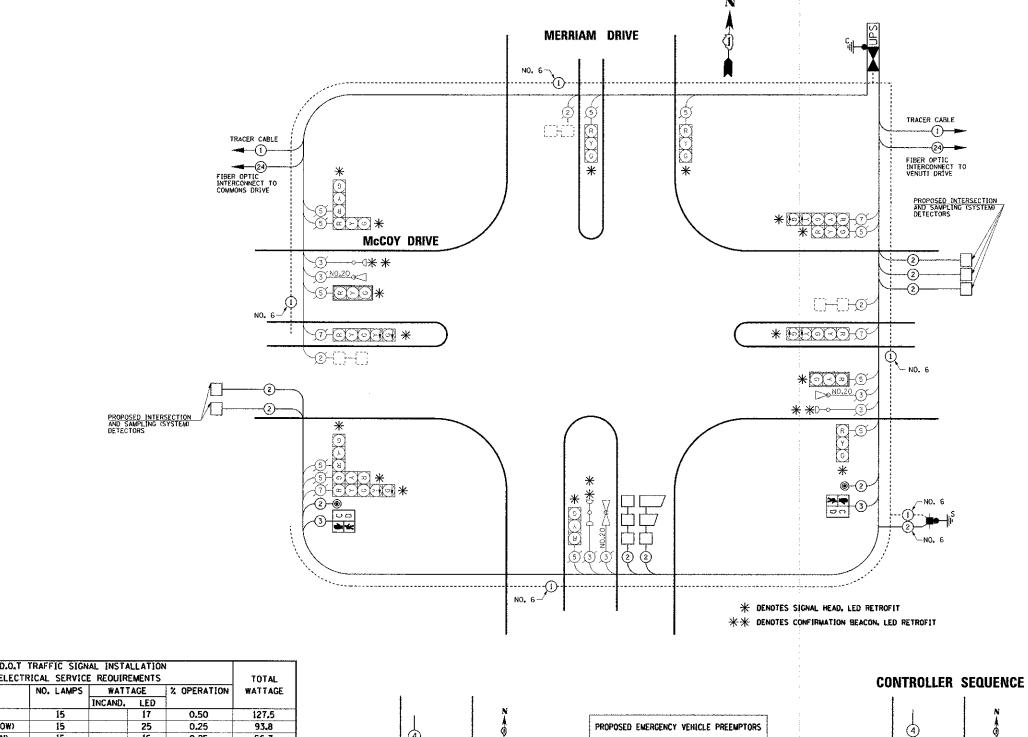
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND
PHASE DESIGNATION DIAGRAM
COMMONS DRIVE AT LIBERTY STREET
SHEET NO. OF SHEETS STA. TO ST.







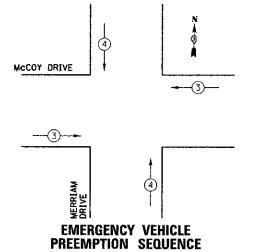


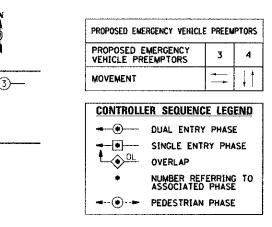
SCHEDULE OF QUANTITIES PAY ITEM DESCRIPTION PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH

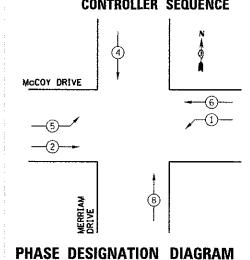
MERRIAM DRIVE 5Q FT SQ FT ENGINEER'S FIELD OFFICE, TYPE B CAL MO 0.3 MOBILIZATION L SUM 0.1 TRAFFIC CONTROL AND PROTECTION, STANDARD 70160 L SUM 0.1 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 LSUM 0.1 i. SUM 0.1 THERMOPLASTIC PAVEMENT MARKING - LINE 24" FOOT 28 PAVEMENT MARKING REMOVAL SQ FT SERVICE INSTALLATION - GROUND MOUNTED EACH UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. FOOT 247 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION GROUNDING EXISTING HANDHOLE FRAME AND COVER EACH FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT 512 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14-1 PAIR FOOT ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 10 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH INDUCTIVE LOOP DETECTOR EACH FOOT EACH LIGHT DETECTOR AMPLIFIER PEDESTRIAN PUSH-BUTTON EACH EACH MODIFY EXISTING CONTROLLER FOUNDATION REMOVE ELECTRIC CABLE FROM CONDUIT FOOT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT EACH EVP CONFIRMATION BEACON, LED RETROFIT EACH

I.D.O.T TRAFFIC SIGNAL INSTALLATION **ELECTRICAL SERVICE REQUIREMENTS** SIGNAL (RED) (YELLOW) (GREEN) 56.3 15 15 0.25 ARROW 0.10 9,6 PED. SIGNAL 50 CONTROLLER 100 1,00 100 437.2 TOTAL = ENERGY COSTS TO: CITY OF AURORA 44 E. DOWNER PLACE AURORA, ILLINOIS 60507-2067 ENERGY SUPPLY CONTACT: MARK SCHERIBEL

PHONE: (630) 723-2128 COMPANYs COMMONWEALTH EDISON







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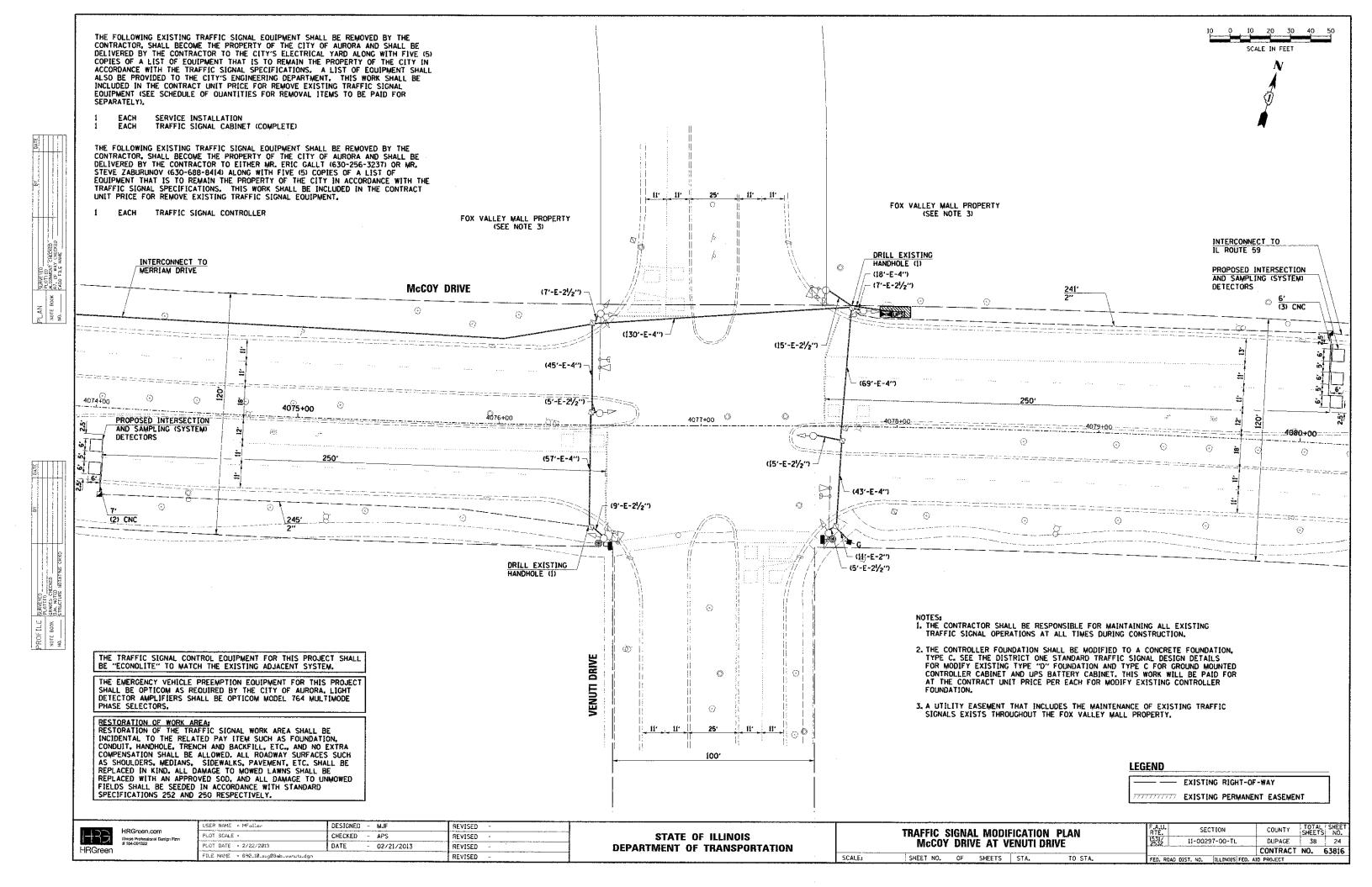
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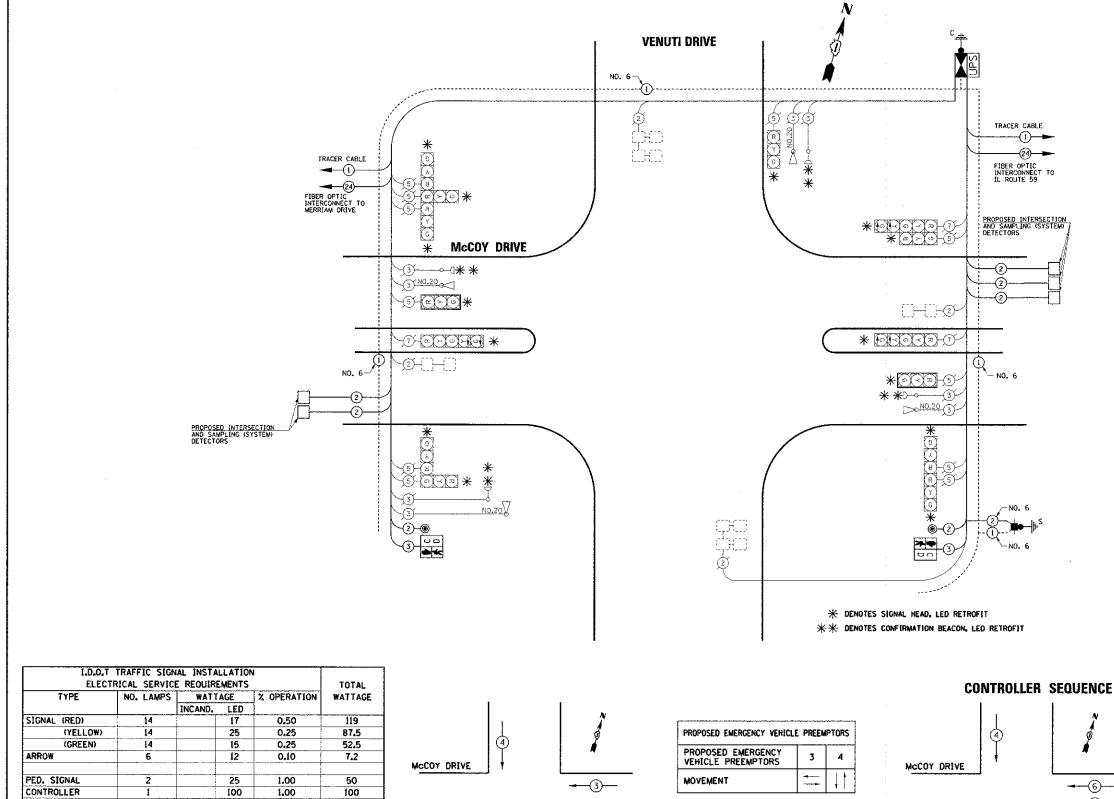
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	CABLI	E PLAN	AND					
PHASE DESIGNATION DIAGRAM								
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A.U.	SECTION	COUNTY	TOTAL	SHEET					
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D. RC	D. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								





ENGINEER'S FIELD OFFICE, TYPE B CAL MO 0.3 MOBILIZATION LSUM 0.1 TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 LSUM LSUM 0.1 EACH SERVICE INSTALLATION - GROUND MOUNTED UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. EACH HANDHOLE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH EACH GROUNDING EXISTING HANDHOLE FRAME AND COVER ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 20 FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT FOOT 1926 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C DRILL EXISTING HANDHOLE PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH INDUCTIVE LOOP DETECTOR EACH DETECTOR LOOP, TYPE I FOOT LIGHT DETECTOR AMPLIFIER EACH PEDESTRIAN PUSH-BUTTON EACH MODIFY EXISTING CONTROLLER FOUNDATION EACH REMOVE ELECTRIC CABLE FROM CONDUIT FOOT EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

VENUTI DRIVE

EACH

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SCHEDULE OF QUANTITIES

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

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

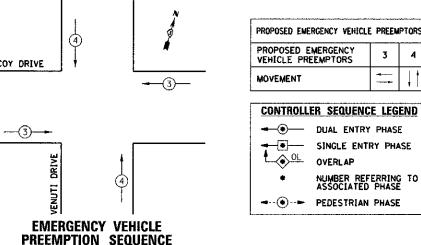
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

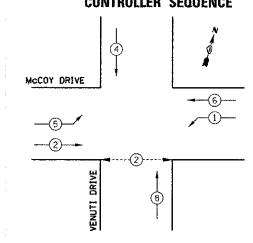
EVP CONFIRMATION BEACON, LED RETROFIT

PAY ITEM DESCRIPTION

TOTAL = 416.2 ENERGY COSTS TO: CITY OF AURORA 44 E. DOWNER PLACE AURORA, ILLINOIS 60507-2067 ENERGY SUPPLY CONTACT: MARK SCHERIBEL PHONE: (630) 723-2128

COMMONWEALTH EDISON





PHASE DESIGNATION DIAGRAM

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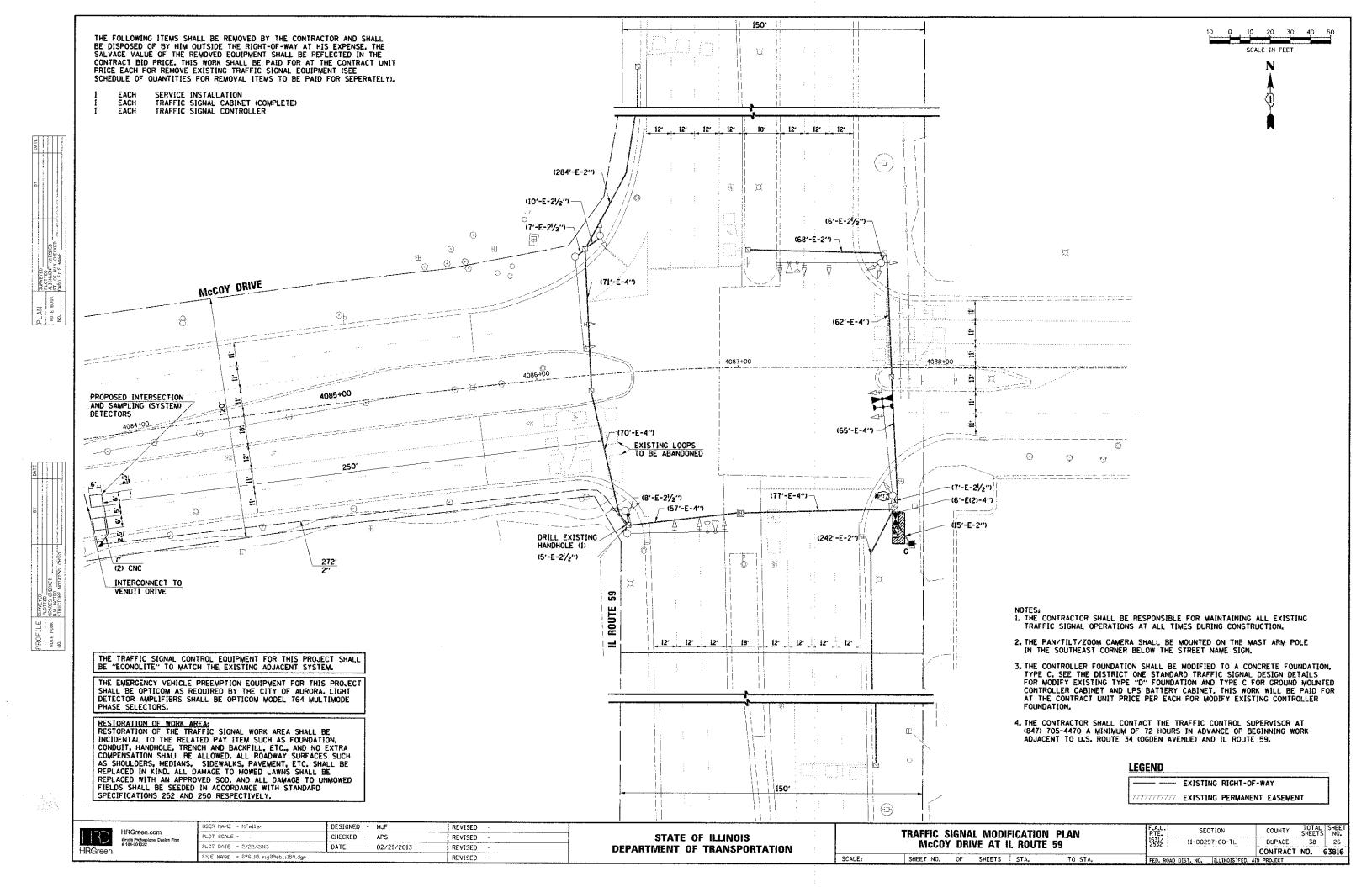
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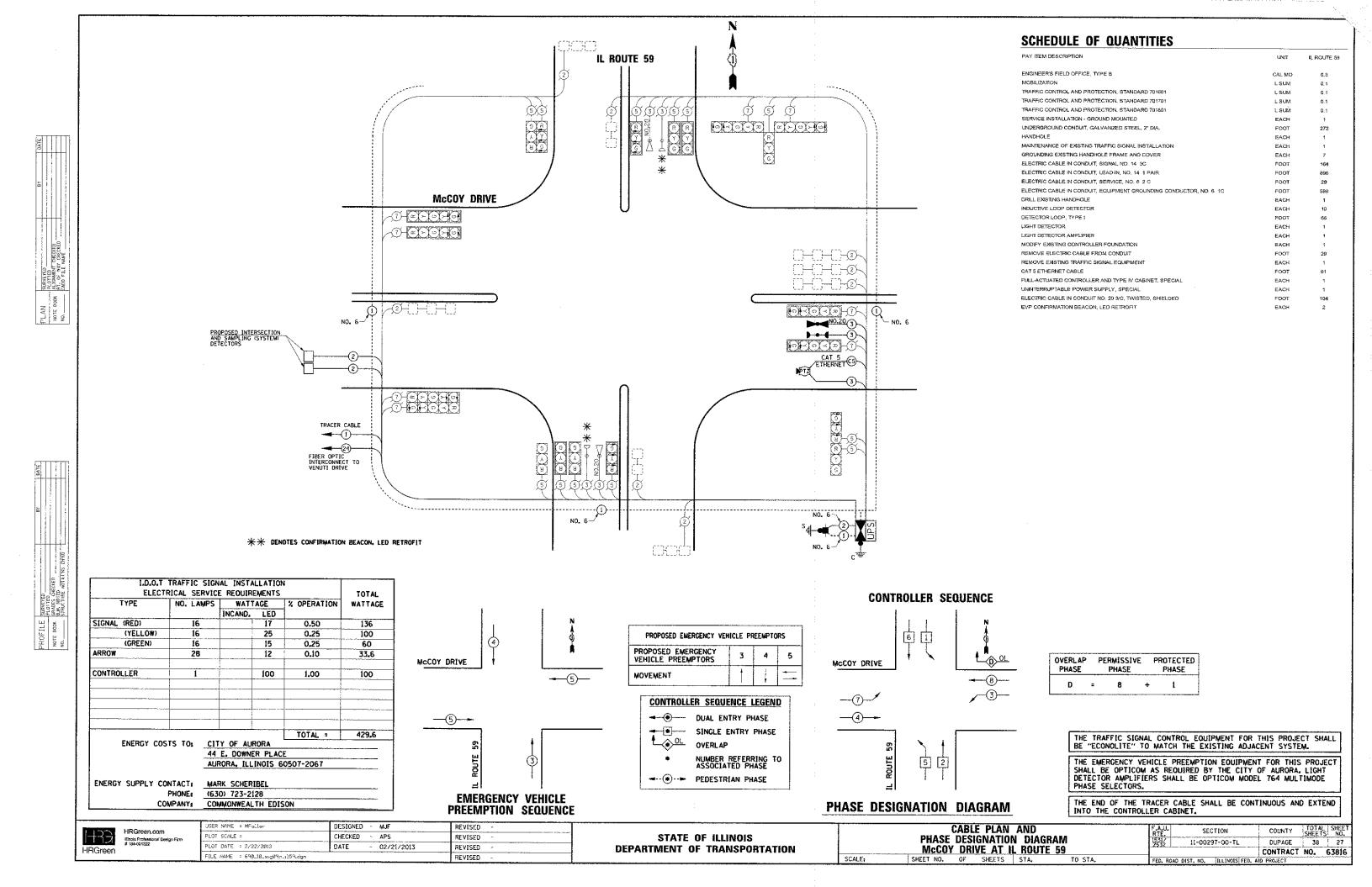
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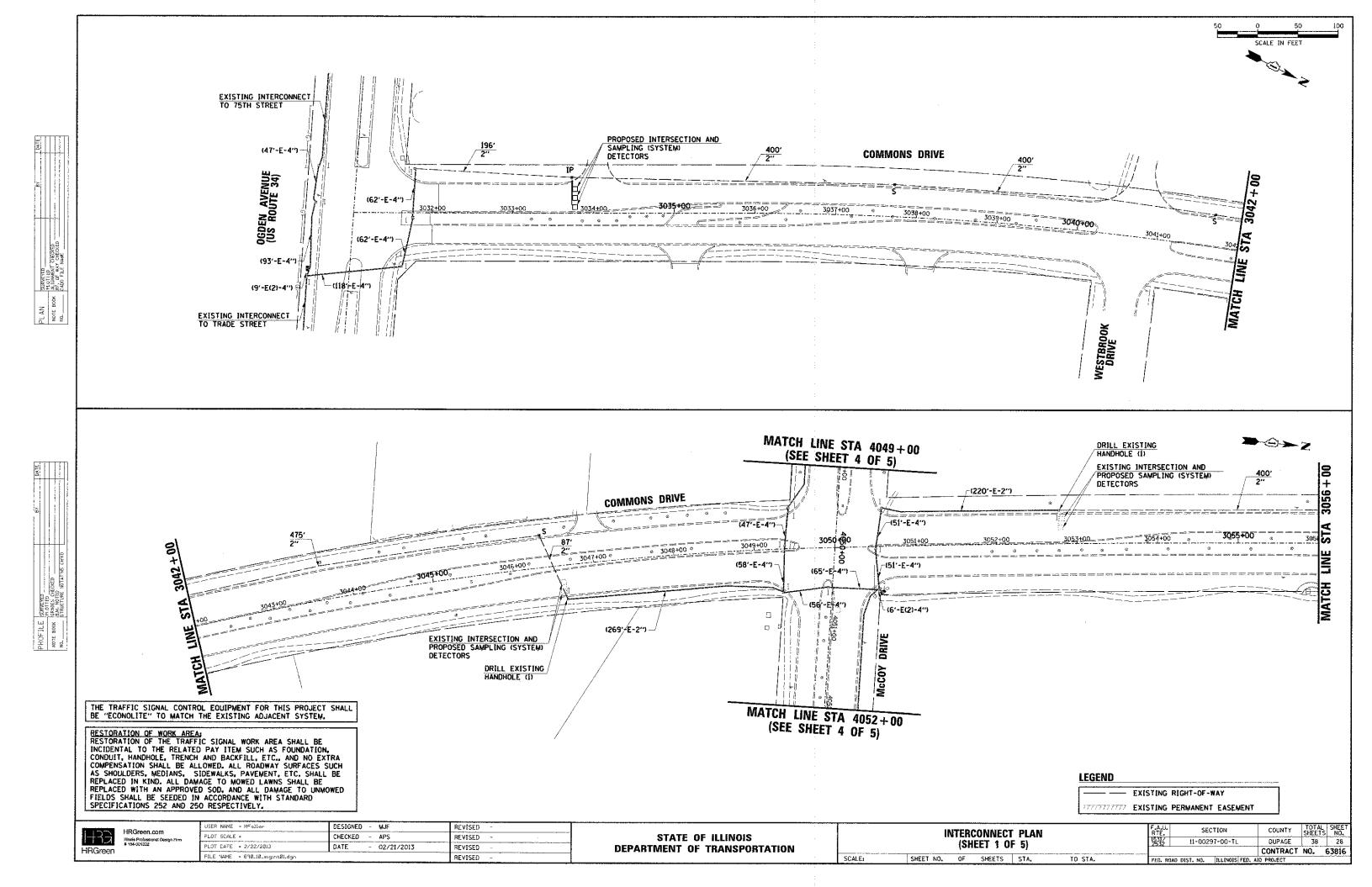
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

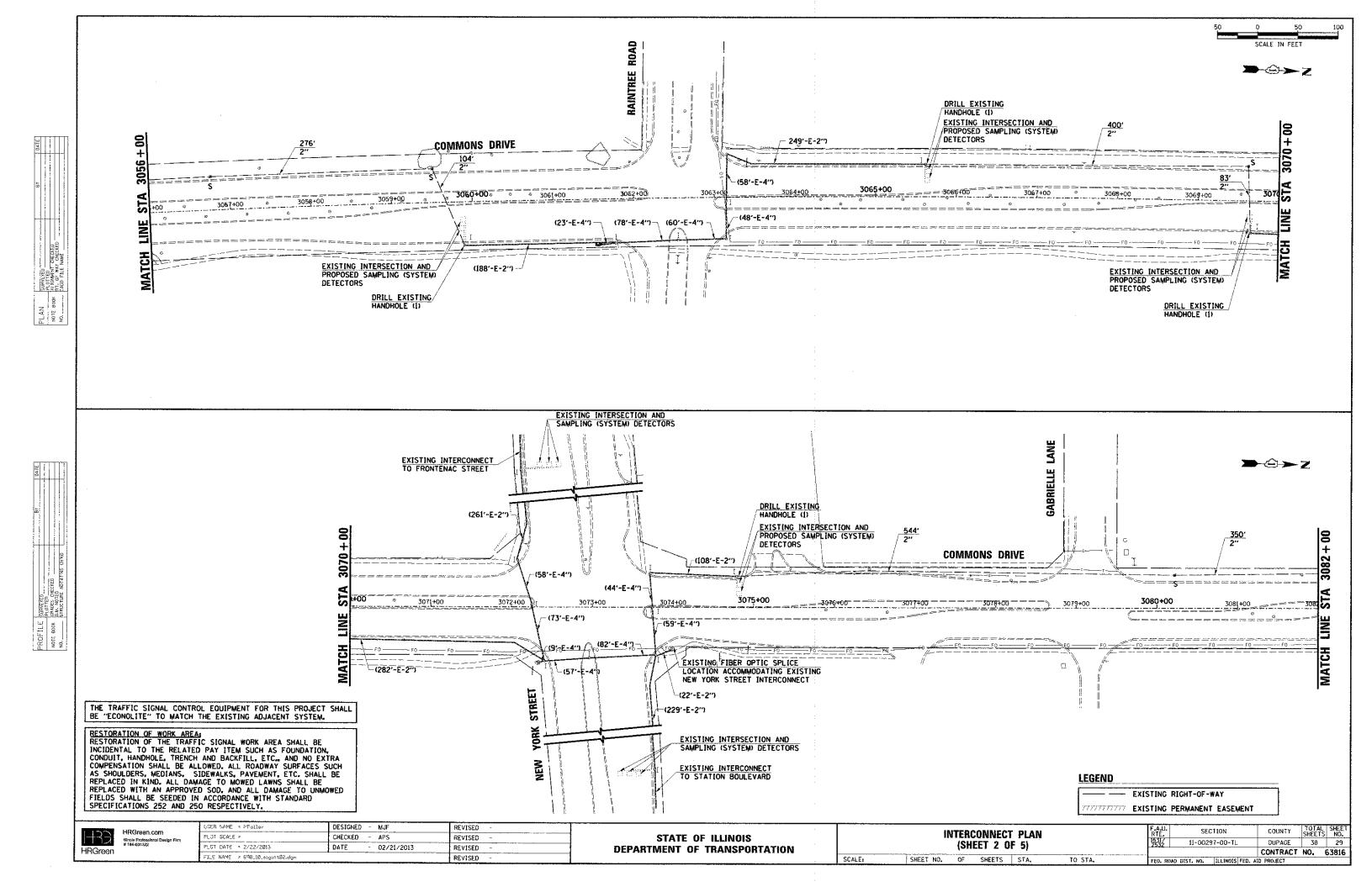
CABLE PLAN AND							
	PHASE DESIGNATION DIAGRAM						
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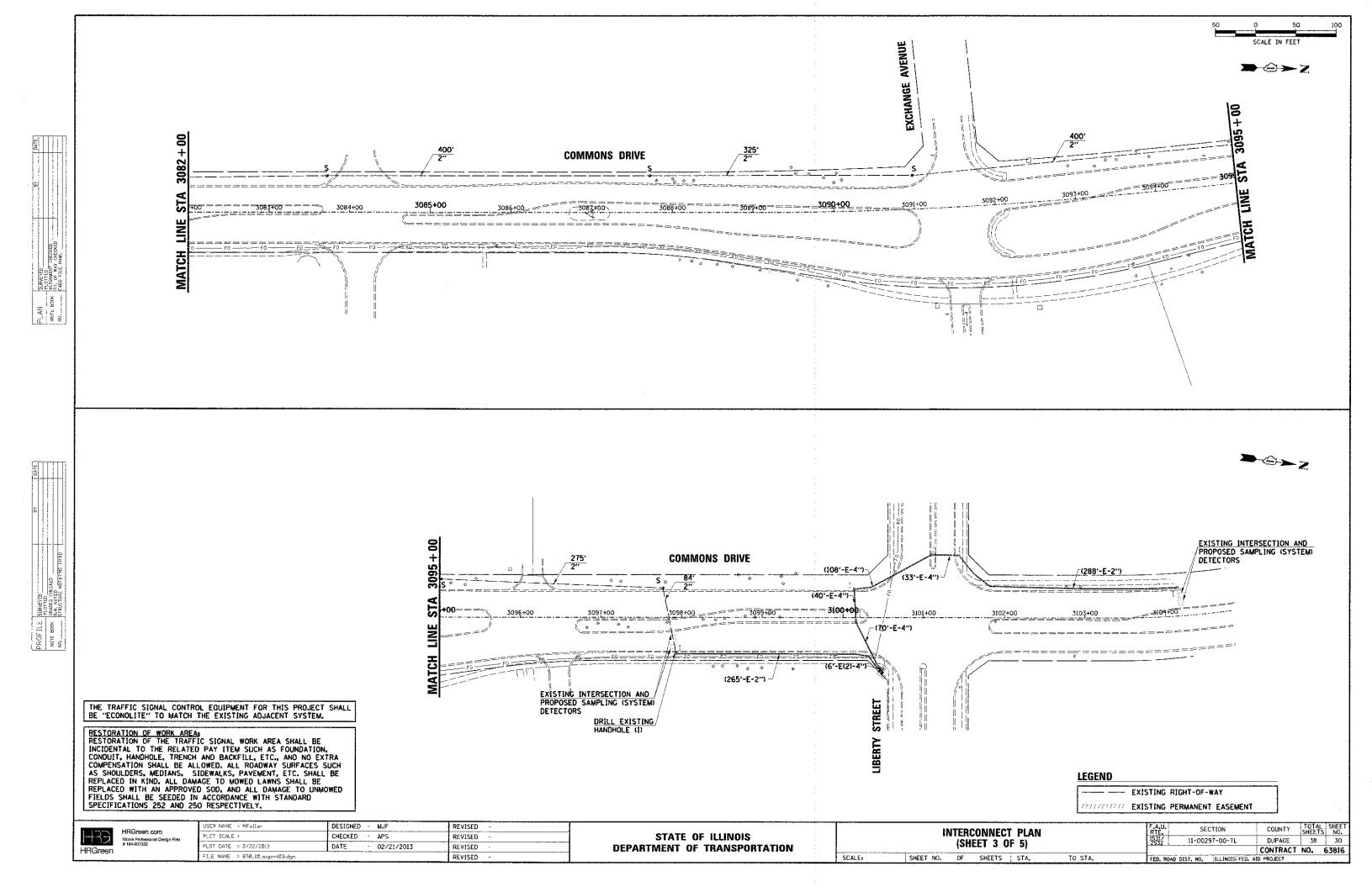
E.	SEC			COUNTY	TOTAL SHEETS	SHEET NO.
32	11-00297-00-TL			DUPAGE	38	25
				CONTRACT	NO.	53816
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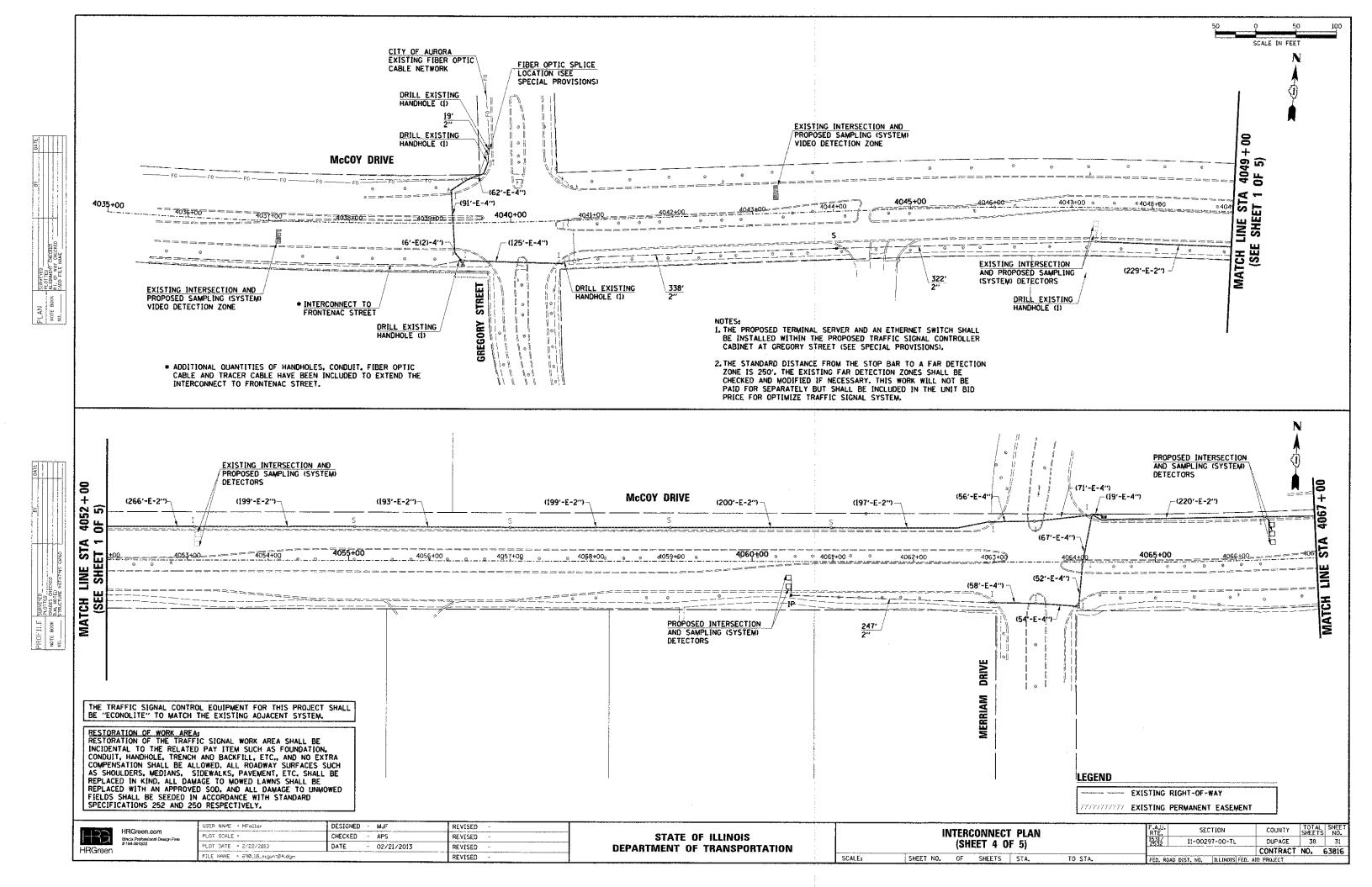


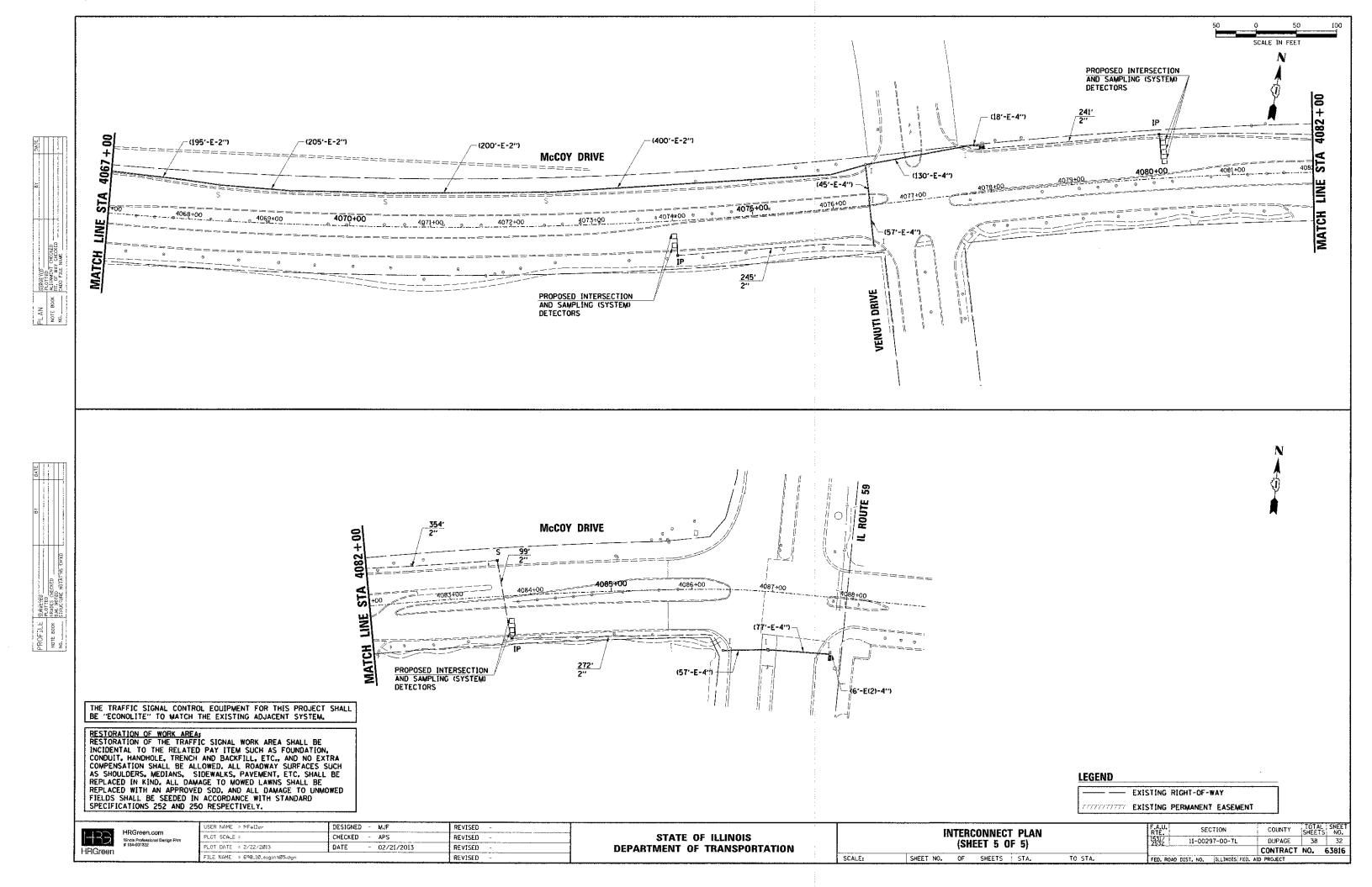


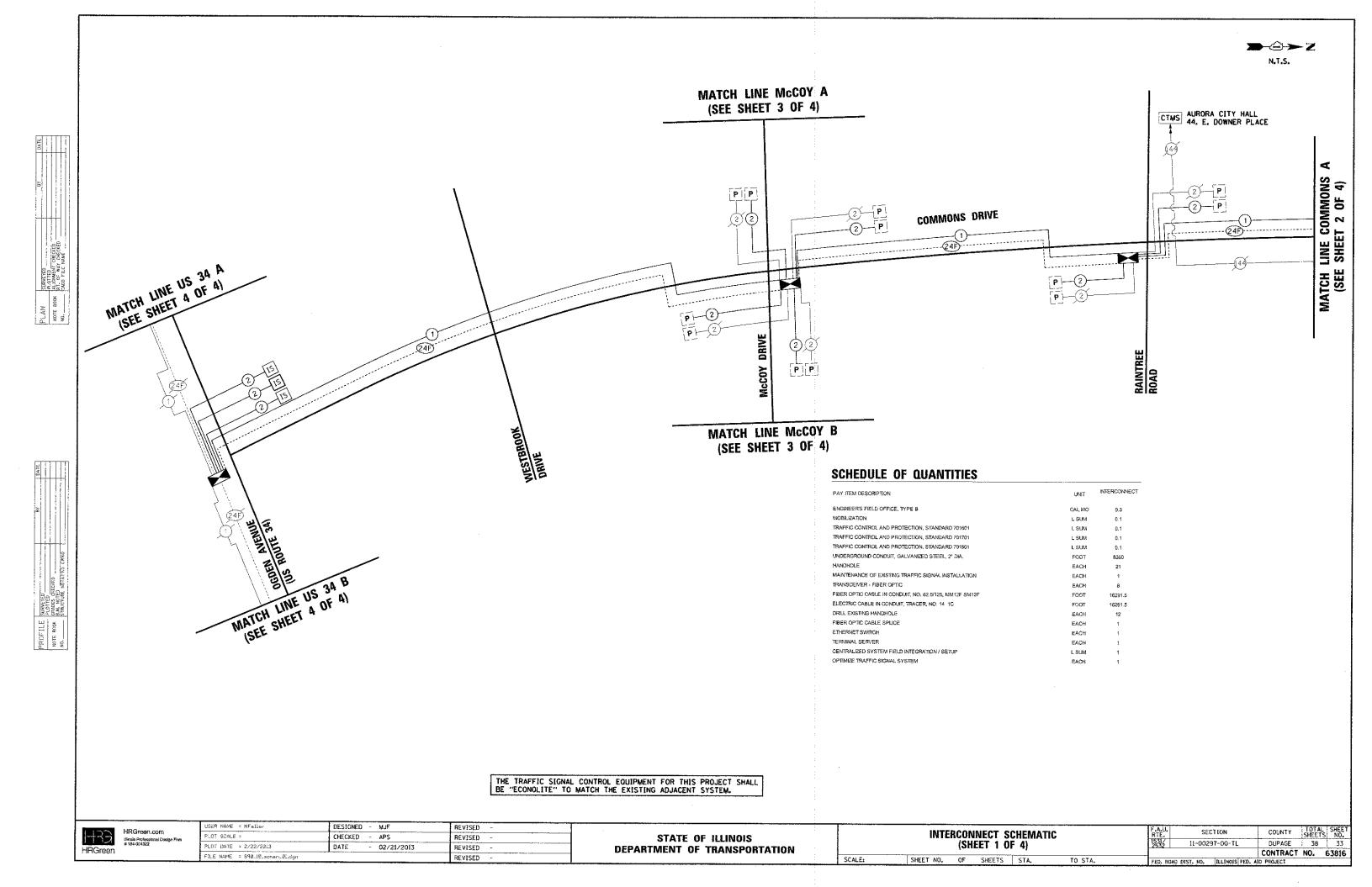


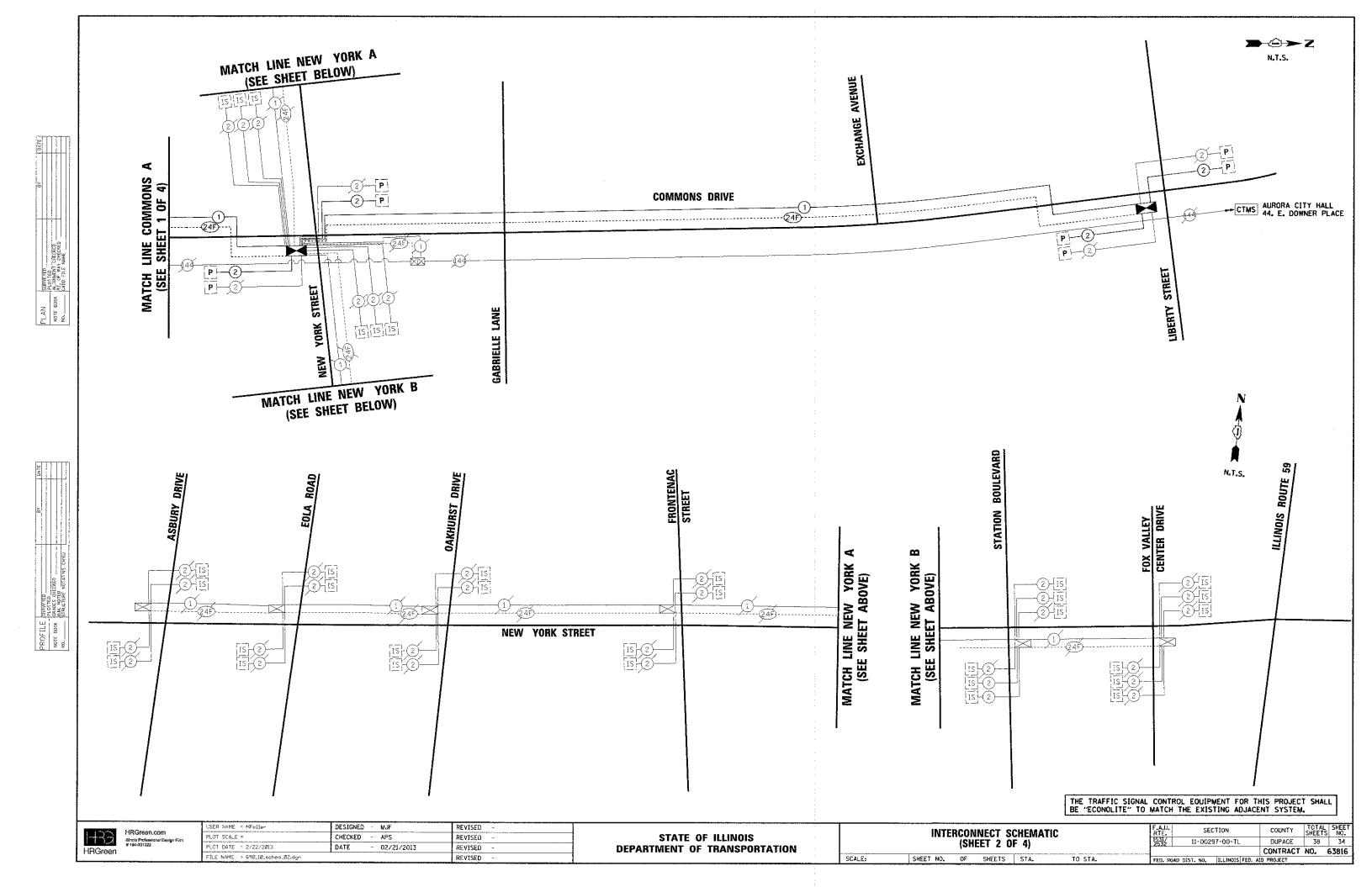


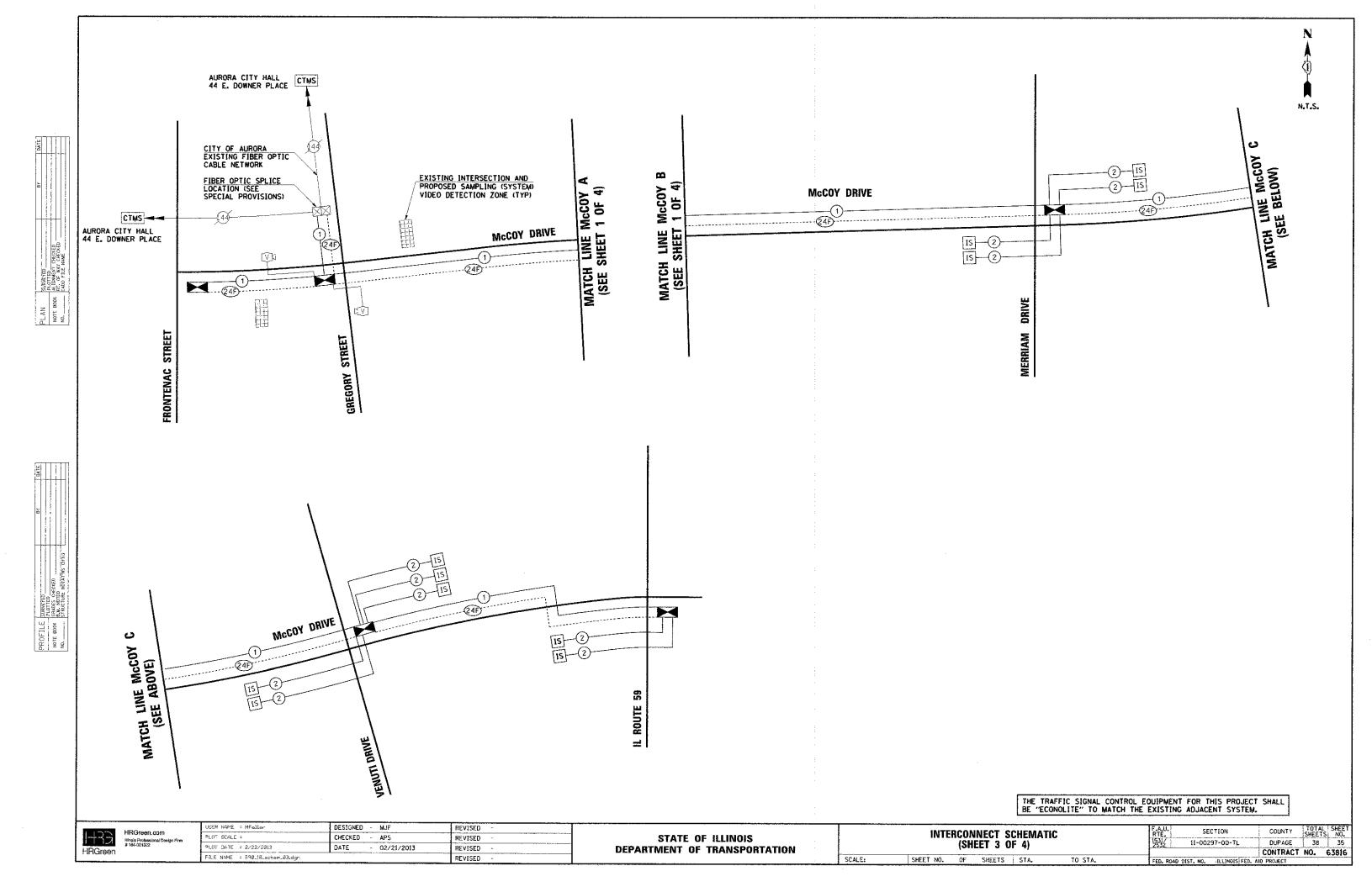




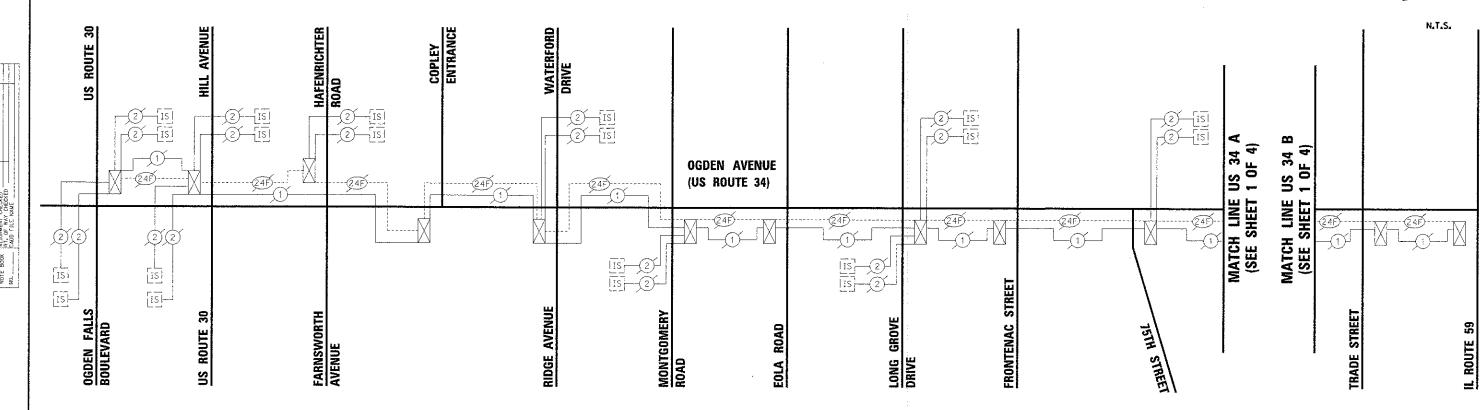








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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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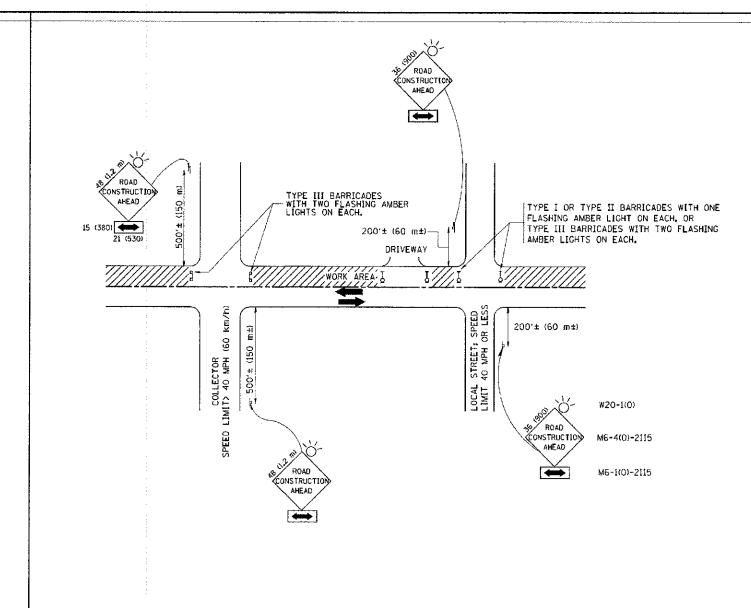
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				7	CONTRACT	NO.	63816
	FEO. RO	DAD DIST. NO.	ILLINOIS, FED.	AID	PROJECT		



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

NOTES:

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

SCALE: NONE

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. 701506 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.

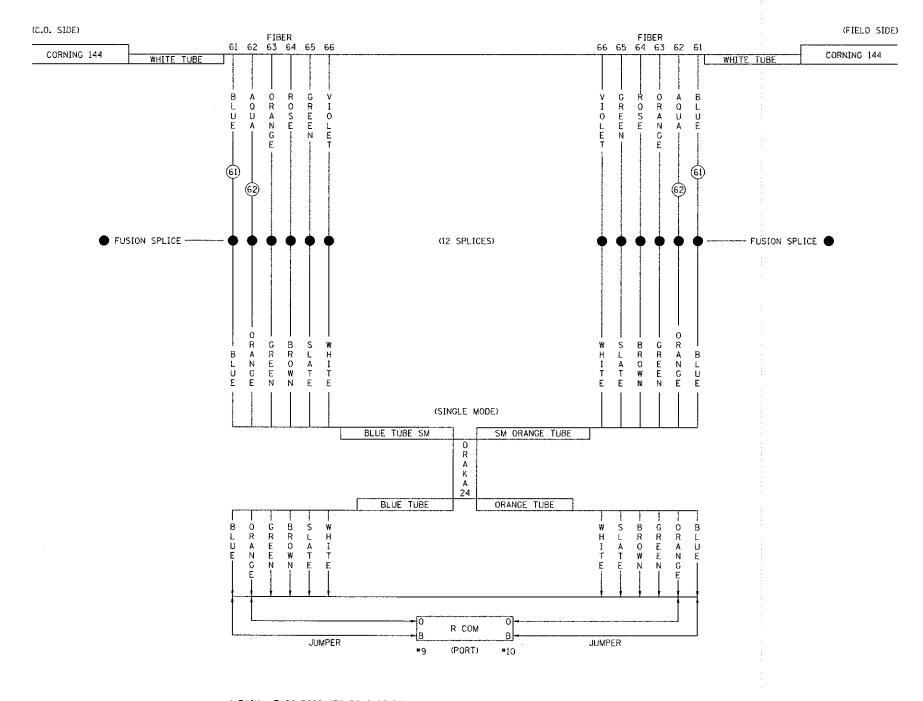
All dimensions are in millimeters (inches) unless otherwise shown, $% \left\{ 1,2,\ldots ,n\right\} =0$

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	Wz\diszatd\22x34\tc10.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
i		PLOT SCALE = 52,202 1/ SN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
		PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T, RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			TRAFFIC CONTROL AND PROTECTION FOR SIDE HOADS, INTERSECTIONS, AND DRIVEWAYS				
SHEET NO. 1 OF	1 SHEETS	STA.	TO STA.	FEO. R			

TRAFFIC SIGNAL - FIBER 'T' SPLICE



FIBER OPTIC INTERCONNECT AND SPLICE **GENERAL NOTES**

- AT ALL CABINETS, THE FOLLOWING SHALL BE USED: MULTI MODE GREEN TUBE SINGLE MODE BLUE TUBE
- 2. AT ALL CABINETS, A MINIMUM OF SIX (6) MULTI MODE AND SIX (6) SINGLE MODE FIBERS SHALL BE TERMINATED WITH APPROVED MECHANICAL CONNECTORS AT THE DISTRIBUTION ENCLOSURE. FIBERS NOT ATTACHED SHALL BE CAPPED. SEALED, AND LABELED "MM SPARE" OR "SM SPARE".
- 3. THE DISTRIBUTION ENCLOSURE AND ALL CONNECTORS WILL BE INCLUDED IN THE COST OF THE FIBER OPTIC CABLE.
- 4. ALL FIBERS SHALL BE TERMINATED IN THE CABINET PRIOR TO THE FUSION SPLICE BEING PERFORMED, SO THAT OTDR TESTS CAN BE RUN TO APPROVE THE SPLICE.
- 5. OTDR TESTING SHALL BE INCLUDED IN THE COST OF THE FIBER OPTIC SPLICE.
- 6. AT THE CABINET, TERMINATE ALL TWELVE (12) SINGLE MODE WITH "SC" MECHANICAL CONNECTORS.
- AT THE CABINET, TERMINATE ALL MULTI MODE WITH "ST" MECHANICAL CONNECTORS.

1 EACH: TYCO FOSC 450 D6 CLOSURE

INCLUDED IN STD. 450 DG: 1 EACH: STD. 6 TRAY 1 EACH: 6-HOLE PORT

1 EACH: TRACER GROUND LUG

JSER NAME - MFelle-DESIGNED - MJF REVISED HRGreen.com PLOT SCALE = CHECKED - APS REVISED PLOT DATE = 2/22/2013 - 02/21/2013 REVISED DATE FILE NAME = 698_10_det02_ficer-scirce.don REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

FIBER OPTIC SPLICE DETAIL SHEET NO. OF SHEETS STA.

SCALE:

SECTION COUNTY TOTAL SHEET 11-00297-00-TL DUPAGE CONTRACT NO. 63816 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

HRGreen