### STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

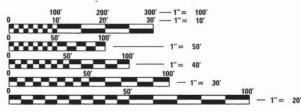
**DIVISION OF HIGHWAYS** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 3 AND 4

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

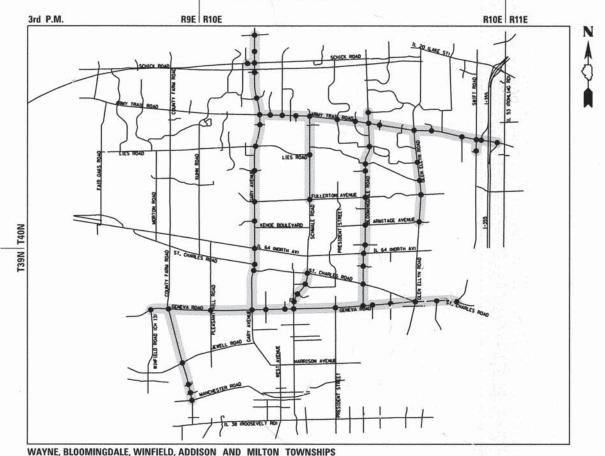
Dupage County
Central Signal System
Phase 1
Section 11-Dccss-00-tl
Project No. CMM-4003(110)
Dupage County Division of Transportation
C-91-096-13

PROJECT IS LOCATED IN THE CITY OF WHEATON, THE VILLAGES OF WINFIELD, GLENDALE HEIGHTS, GLEN ELLYN, CAROL STREAM, BLOOMINGDALE, HANOVER PARK, AND ADDISON.



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811



LOCATION MAP NO SCALE GETA GEWALT HAMILTON ASSOCIATES, INC.

696 Forest Edge Drive ■Vernon Hills, IL. 60061 Consulting Engineers & Surveyors

847-478-9700
FAX: 847-478-9701 D-91-096-13



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MACA 3 20.15

DUPAGE COUNTY DIVISION OF TRANSPORTATION
DIRECTOR OF TRANSPORTATION / COUNTY ENGINEER

APPROVED APRIL 1 20.15

CHARGE COUNTY DIVISION OF TRANSPORTATION / COUNTY ENGINEER

APPROVED APRIL 1 20.15

DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

BASED ON LIMITED REVIEW APRIL 1 20.15

APRIL 1 20.15

DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

SIGNED: KEVIN L. BELGRAVE, EXP. 11/30/2015

MARCH 16, 2015

MARCH 16 CONTROL OF ILLUSTRANE OF ILLUST

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

RAL AID PROGRAM ENGINEER: FAWAD ADUFEL. P

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**CONTRACT NO. 61A92** 

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CABINET DETAIL 12A GENEVA/GARY

CABINET DETAIL 16A GENEVA/BLOOMINGDALE

CABINET DETAIL 20A BLOOMINGDALE/ARMY TRAIL

CABINET DETAIL 20B BLOOMINGDALE/ARMY TRAIL

118. CABINET DETAIL 24A GARY/ARMY TRAIL

119.-122. DISTRICT ONE DETAILS (TC-10, TC-13, TC-14 AND TC-22)

123. CAMERA MOUNTING DETAILS

**HIGHWAY STANDARDS** 

000001-06 STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
01006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM
PAVEMENT EDGE
01101-04 OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY
01101-04 OFF-RD OPERATIONS, MULTILANE 15' (4.5 m) TO 24" (600 mm) FROM
PAVEMENT EDGE
01106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
101301-04 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
101301-04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR
SPEEDS 2 45 MPH
101301-04 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS

701301-04

OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR
SPEEDS 2 45 MPH
LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR
SPEEDS 4 0 MPH
URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
USTNO STANGE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
URBAN LANE CLOSURE, MULTILANE INTERSECTION
SIDEWALK, CORNER OR CROSSWALK CLOSURE
TRAFFIC CONTROL DEVICES
HANDHOLES
STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 701427-03 701502-06 701602-07 701606-10 70611

701801-05

#### **GENERAL NOTES**

THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2012: MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION, PROJECT SPECIFICATIONS; ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION: THE CITY OF WHEATON: THE VILLAGES OF WINFIELD. GLEN ELLYN. GLENDALE HEIGHTS. CAROL STREAM. BLOOMINGDALE. HANOVER PARK, AND ADDISON: THE DUPAGE COUNTY DIVISION OF TRANSPORTATION: ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION: AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.

THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT, INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY, AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSTABLE MATERIALS CREATED AS A RESULT THEREOF.

THE CONTRACTOR SHALL SOLEY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS. TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION IS BASED ON RECORD INFORMATION PROVIDED BY THE INDIVIDUAL UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT J.U.L.I.E. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY COMPANIES UNDERGROUND FACILITIES.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF 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 AWNS SHALL BE REPLACED WITH AN APPROVED SOD IN ACCORDANCE TO STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REQUIRED WATERING PER ARTICLE 252.08, ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, RESPECTIVELY.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES, AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES. MUNICIPALITIES. AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, AND IDOT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

ANY EXPLORITORY POTHOLING FOR EXISTING BELOW GRADE UTILITIES IN HARD SURFACES OR GRASSED AREAS SHALL BE INCLUDED IN THE COST OF THE CONTRACT. ALL POTHOLE SHALL BE FILLED WITH SAND OR BENTONITE CHIPS AS APPROVED BY THE ENGINEER.

GHA #4281.81 FILE NAME : JSER NAME = zwallsten DESIGNED -JRD REVISED SECTION COUNTY INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES 161A92-002-gennote.dgn DRAWN REVISED STATE OF ILLINOIS ZCW VAR. 11-DCCSS-00-TL DUPAGE 123 PLOT SCALE = 1:20 CHECKED -KLB REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 61A92 Default PLOT DATE = 3/13/2015 DATE REVISED SCALE: NONE SHEET OF SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT

		1.000.000	ATION OF ORK	JACK T. KNUEFPER ADMINISTRATION BUILDING (TMC)	DCDOT COMMUNICATION BUILDING 130 (OEMC)	SYSTEM 41	SYSTEM 3	SYSTEM 23	SYSTEM 32	SYSTEM 49	SYSTEM 6	SYSTEM 11	SYSTEM 7	SYSTEM 19	BLOOMINGDALE ROAD BETWEEN	INTERCONNECT - BLOOMINGDALE ROAD BETWEEN BRANDON DRIVE AND ARMY TRAIL ROAD
	SUMMARY OF QUANTITIES		TOTAL						80% STA	TE / 20% DU AFFIC SIGN	JPAGE CO.					
CODE NO.		UNIT	QUANTITY							0021 URBAN						
CODE NO.	ITEM									URDAN					T	
67100100	MOBILIZATION	L SUM	1.00													
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1.00													
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1.00													
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1.00	<del>                                     </del>						terminal transfer						
									7							
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.00													
1010200																
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1.00													
10102010	The country and the country of the c	2 33	1100	<del>                                     </del>	<u> </u>											
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5, 290			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-							3, 387	1, 903
01020200	SHOULDHOUSE CONDOTTS CALLANTZED STEELS Z DIA	1 001	3, 230		-										3, 301	1, 303
81400100	HANDHOLE	EACH	8												5	3
01400100	TANDIOLL	LACII	-												3	3
95000300	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	42			6	- ,,	4	3	7	5	1	3	2		
83000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1 42			в	11	4	3	-	2	1	3	2	-	
05000005	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (SPECIAL)	FACU	0.7									-				
85000205	(SPECIAL)	EACH	23								12	6	4	1		
97700005	FLEGTRIC CARLE IN CONCULT TRACER NO. 14 10	FOOT	7 507			- 71-271-271									5 000	0.470
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	7, 507												5, 068	2, 439
87000000	ODILL EVICTING HANDING E	F. 0	-													
87900200	DRILL EXISTING HANDHOLE	EACH	8												6	2
								1.2								
88500100	INDUCTIVE LOOP DETECTOR	EACH	54	ļ		5	21		8		10		10			
	DELOCATE EVICTING EMERCENCY VEHICLE PRIORITY SYSTEM								16.							
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	9			1	5		1		1		1			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2, 028												2,028	
									172							
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	22			5	7		2	4	3		1			
								1 3								
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	9			1	5	1.50	1		1		1			ě.
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	27			5	6	4	1	7	2	1		1		
								- 3								
XX005800	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM	EACH	1				1									
								1.3								
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	13			2	2	1		2	4		1	1		
XX006655	LAYER II (DATALINK) SWITCH	EACH	32	1		5	10	4	2	6	1		1	2		
								3.5								
	*SPECIALTY ITEM				,			11.13								

GHA #4281.810

FILE NAME = DESIGNED - JRD REVISED -D161A92-003-S00.dgn DRAWN - ZCW REVISED -PLOT SCALE = 1:20 CHECKED - KLB REVISED -PLOT DATE = 3/13/2015 REVISED -DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	SUMMARY	OF QU	ANTITIES
	(SHEI	ET 1 OF	2)
SHEET	OF	SHEETS	STA.

TO STA.

SCALE: NONE

| CONTRACT NO. 61A92 | ILLINOIS | FED. AID | PROJECT | CONTRACT NO. 61A92 | CONTRACT NO. 61A9 F.A. RTE. VAR. SECTION 11-DCCSS-00-TL

			CATION OF VORK	JACK T. KNUEFPER ADMINISTRATION BUILDING (TMC)	DCDOT COMMUNICATION N BUILDING 130 (OEMC)	SYSTEM 41	SYSTEM 3	SYSTEM 23	SYSTEM 32	SYSTEM 49	SYSTEM 6	SYSTEM 11	SYSTEM 7	SYSTEM 19	INTERCONNECT - BLOOMINGDALE ROAD BETWEEN GENEVA ROAD AND SIDNEY AVENUE	BLOOMINGDALE ROAD BETWEEN BRANDON DRIVI AND ARMY
	SUMMARY OF QUANTITIES		TOTAL						80% STAT	TE / 20% DU AFFIC SIGNA	PAGE CO.					
0005 110		UNIT	TOTAL QUANTITY						111/	0021 URBAN	,LJ				10-27-300-3-3-3-3	
CODE NO.	ITEM									URBAN				Τ	T	<u> </u>
XX007017	TERMINATE FIBER IN CABINET	EACH	147	1	4	32	42	16	4	28	14		4	2		
XX007018	LAYER III (NETWORK) SWITCH	EACH	7		1	2	1			1	2					
XX007952	TERMINAL SERVER	EACH	4								1	1	1	1		
XX007953	NETWORK CONFIGURATION	L SUM	1.00					1								
XX008251	SPLICE FIBER IN CABINET	EACH	54	1	1	8	20	8	4	12						
XX008253	VIDEO ENCODER	EACH	5			1	1	1				2				
XX008256	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	25								13	5	6	1		
XX008392	OUTDOOR RATED NETWORK CABLE	FOOT	2,020			424	278	77		358	444		188	251		
XX00 <b>9</b> 246	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	9, 535												7, 096	2, 439
Z0010688	CAMERA MOUNTING ASSEMBLY	EACH	3								1		1	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	102.80												51.40	51.40
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	13			4	3		1	4	1					
XX009028	FIREWALL	EACH	1		1											
xx009029	Dupage county Centralized traffic management system	EACH	1	1												

#### \*SPECIALTY ITEM

#### PHASE 1

COUNTY FARM ROAD AT MANCHESTER ROAD COUNTY FARM AT MAIN ENTRANCE COUNTY FARM ROAD AT NORTH ENTRANCE COUNTY FARM ROAD AT JEWELL ROAD COUNTY FARM ROAD AT GENEVA ROAD GENEVA ROAD AT WINFIELD ROAD

SYSTEM 3
GENEVA ROAD AT PLEASANT HILL ROAD
GENEVA ROAD AT GARY AVENUE GENEVA ROAD AT MORSE STREET GENEVA ROAD AT MORSE STREET
GENEVA ROAD AT GENEVA CROSSING
GENEVA ROAD AT MAIN STREET / SCHMALE ROAD
SCHMALE ROAD AT MAIN PLACE / HOME DEPOT
SCHMALE ROAD AT THORNHILL DRIVE SCHMALE ROAD AT GUNDERSON DRIVE SCHMALE ROAD AT ST. CHARLES ROAD GARY AVENUE AT ST. CHARLES ROAD (EAST) GARY AVENUE AT ST. CHARLES ROAD (WEST)

SYSTEM 23 GARY AVENUE AT IL 64 (NORTH AV) GARY AVENUE AT THUNDERBIRD TRAIL GARY AVENUE AT FULLERTON AVENUE / HIAWATHA DRIVE GARY AVENUE AT ELK TRAIL GARY AVENUE AT LIES ROAD

SYSTEM 32
BLOOMINGDALE ROAD AT ST. CHARLES ROAD
BLOOMINGDALE ROAD AT SHOREWOOD DRIVE
BLOOMINGDALE ROAD AT IL 64 (NORTH AV)

SYSTEM 49 GENEVA ROAD AT PRESIDENT STREET GENEVA ROAD AT BLOOMINGDALE ROAD GENEVA ROAD AT KENILWORTH AVENUE GENEVA ROAD AT WESTERN AVENUE GENEVA ROAD / ST. CHARLES ROAD AT MAIN STREET / GLEN ELLYN ROAD ST. CHARLES ROAD AT RIFORD ROAD / ACKERMAN PARK

ST. CHARLES ROAD AT SWIFT ROAD

SYSTEM 6
GARY AVENUE AT STARK DRIVE GARY AVENUE AT ARMY TRAIL ROAD GARY AVENUE AT SCOTT DRIVE

GARY AVENUE AT STRATFORD ENTRANCE DRIVE 5 GARY AVENUE AT SCHICK ROAD GARY AVENUE AT GLENWOOD DRIVE GARY AVENUE AT LAWRENCE AVENUE SCHICK ROAD AT THORN ROAD ARMY TRAIL ROAD AT KNOLLWOOD DRIVE ARMY TRAIL ROAD AT SPRINGFIELD DRIVE ARMY TRAIL AT BUTTERFIELD ROAD ARMY TRAIL ROAD AT BLOOMINGDALE SQUARE

ENTRANCE ARMY TRAIL ROAD AT SCHMALE ROAD ARMY TRAIL ROAD AT CARDINAL ROAD ARMY TRAIL ROAD AT GLADSTONE COURT ARMY TRAIL ROAD AT BLOOMINGDALE ROAD BLOOMINGDALE ROAD AT GREENWAY DRIVE ARMY TRAIL ROAD AT GEORGE BELL DRIVE SCHMALE ROAD AT BLOOMINGDALE COURT SCHMALE ROAD AT LIES ROAD SCHMALE ROAD AT FULLERTON AVENUE

SCALE: NONE

SYSTEM 11
ARMY TRAIL ROAD AT REGENCY DRIVE ARMY TRAIL ROAD AT GLEN ELLYN ROAD ARMY TRAIL ROAD AT CREEKSIDE DRIVE ARMY TRAIL ROAD AT MEADOWS ROAD ARMY TRAIL ROAD AT SWIFT ROAD SWIFT ROAD AT PAMPERED CHEF LANE ARMY TRAIL ROAD AT I-355 WEST RAMP ARMY TRAIL ROAD AT I-355 EAST RAMP

SYSTEM 7 BLOOMINGDALE ROAD AT SIDNEY DRIVE BLOOMINDGALE ROAD AT ARMITAGE AVENUE

BLOOMINGDALE ROAD AT GLEN POINTE DRIVE / WINDY POINT DRIVE BLOOMINGDALE ROAD AT BRANDON DRIVE

SHEET

SYSTEM 19

GLEN ELLYN ROAD AT GREGORY AVENUE
GLEN ELLYN ROAD AT WINDY POINT DRIVE
GLEN ELLYN ROAD AT FULLERTON AVENUE
GLEN ELLYN ROAD AT ARMITAGE AVENUE

BLOOMINGDALE ROAD AT CAMERA PARK BLOOMINGDALE ROAD AT FULLERTON AVENUE BLOOMINGDALE ROAD AT STEVENSON DRIVE

GHA #4281.810

COUNTY TOTAL SHEETS NO.

DuPAGE 123 4

CONTRACT NO. 61A92

FILE NAME = DESIGNED -JRD REVISED JSER NAME = zwallsten D161A92-004-S00.dgn DRAWN - ZCW REVISED PLOT SCALE = 1:20 CHECKED - KLB REVISED PLOT DATE = 3/16/2015 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SUMMAR	Y OF QUA	ANTITIES		F.A. RTE.	SECTION
(SH	EET 2 OF	2)		VAR.	11-DCCSS-00-TL
OF	SHEETS	STA.	TO STA.		ILLINOIS

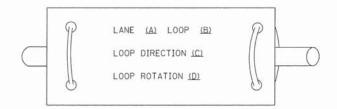
### TRAFFIC SIGNAL LEGEND

		····			HIP OF THE PROPERTY OF THE PARTY OF THE PART						
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R			EMERGENCY VEHICLE LIGHT DETECTOR	R	8	-	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		<u> </u>	
RAILROAD CONTROL CABINET	\$		<b>▶</b> <€	CONFIRMATION BEACON	Ro-Q	o-0	⊷(	204774 24815		d	
COMMUNICATIONS CABINET	CCR	ECC	CC	HANDHOLE	R <sub>N</sub>			COAXIAL CABLE		<del>_</del> Ø_	<u>—</u> ©—
MASTER CONTROLLER		EMC	MC	UEAUV SUEV (MUSICI E	R	H	Ħ	VENDOR CABLE FOR CAMERA		— <u>V</u> —	
MASTER MASTER CONTROLLER	UPS R	EUPS	MMC UPS	HEAVY DUTY HANDHOLE	, E	2004		COPPER INTERCONNECT CABLE.			<b>─</b> ♥ <b>─</b>
UNINTERRUPTABLE POWER SUPPLY SERVICE INSTALLATION,				DOUBLE HANDHOLE JUNCTION BOX	R		0	NO. 18 3 PAIR TWISTED, SHIELDED		<u> </u>	-6-
(P) POLE OR (G) GROUND MOUNT	-□ <sup>R</sup>	- <u></u> P	- <b>■</b> P	UNDERGROUND CONDUIT.				FIBER OPTIC CABLE NO. 62.5/125, MM12F		—(12F)—	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	GALVANIZED STEEL (UC) TEMPORARY SPAN WIRE, TETHER WIRE,		SECRETARIONOMES		FIBER OPTIC CABLE		—24F—	—(24F)—
STEEL MAST ARM ASSEMBLY AND POLE	RO	0	•	AND CABLE				NO. 62.5/125, MM12F SM12F		)	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		-36F)-	—36F—
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	<sup>R</sup> O-¤	0-×	• <del>×</del>	COILABLE NONMETALLIC CONDUIT (EMP	TY)		CNC	ACRES OF ARTHUR STATE OF ACCOUNTS OF THE STATE OF A STA		2.50	
STEEL COMBINATION MAST ARM	RQ	<b>\</b>	•	SYSTEM ITEM INTERSECTION ITEM		S	S	GROUND ROD AT (C) CONTROLLER,  (H) HANDHOLE, (P) POST, (M) MAST ARM,  OR (S) SERVICE		<sub>C</sub> d ├─∘	<sup>c</sup> ill⊢
ASSEMBLY AND POLE WITH PTZ CAMERA	<u>लिय</u> ी	PO	PIZM	REMOVE ITEM	R	*:	1,	CONTROLLER CABINET AND	RCF		
SIGNAL POST TEMPORARY WOOD POLE (CLASS 5 OR	R <sub>O</sub>	0	•	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED	$\bowtie$		
BETTER) 45 FOOT (13.7m) MINIMUM	R⊗	8	•	ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
GUY WIRE	>R	>	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND	RMF		
SIGNAL HEAD	$\triangle$	$\triangle$	-	12" (300mm) RED WITH 8" (200mm)	770100mlul	R		FOUNDATION TO BE REMOVED	0		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			<b>→</b> <sup>2</sup>	YELLOW AND GREEN TRAFFIC SIGNAL F	ACE			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O-X		
SIGNAL HEAD WITH BACKPLATE	+P R	+>	+-			₩ Y	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED	R →"P"	→>"p"	<b>→</b> "P"	SIGNAL FACE		G	G ◆Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	O-D''F''	O-D″F"	••"F"				<del></del> <del>Υ</del> <del>C</del>	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	IS
PEDESTRIAN SIGNAL HEAD	P <sub>O</sub>	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		[5]	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	•	•	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		Ç.	G	QUEUE DETECTOR		[0]	0
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R @ APS	@APS	APS	"RB" INDICATES REFLECTIVE BACKPLAT	TE	•	<b>←</b> Y <b>←</b> G	PREFORMED QUEUE DETECTOR		Pol	PO
ILLUMINATED SIGN "NO LEFT TURN"	R	(8)	<b>9</b>			63	"P"	THE OTHER GOLDE DETECTOR		1, 41	<u>fr. of</u>
ILLUMINATED SIGN	R			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
"NO RIGHT TURN"	8	8	<b>®</b>	12" (300mm) PEDESTRIAN SIGNAL HEAD	).			PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
DETECTOR LOOP, TYPE I		[]		INTERNATIONAL SYMBOL, OUTLINED			[27]			60	•
PREFORMED DETECTOR LOOP		]P]	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID	3	<b>(</b>	*	RAILROAI	SYMBO	LS	
MICROWAVE VEHICLE SENSOR	R M	M	<b>M</b>	PEDESTRIAN SIGNAL HEAD, INTERNATIO SYMBOL, WITH COUNTDOWN TIMER	NAL	C AD	<b>₽</b> C <b>★</b> D			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	RVÞ		$\bigcirc$	RADIO INTERCONNECT	HIRO	##**		RAILROAD CONTROL CABINET			₽◀
VIDEO DETECTION ZONE				RADIO REPEATER	R ERR	ERR	RR	RAILROAD CANTILEVER MAST ARM		( <del>0</del> X X X	IOI I
PAN, TILT, ZOOM CAMERA	R PTZD	<u>ez</u> p	PZ.	DENOTES NUMBER OF CONDUCTORS, ELE		ERR	LKK ]	FLASHING SIGNAL		$\times \circ \times$	<del>X+X</del>
WIRELESS DETECTOR SENSOR	R(W)		(W)	CABLE NO. 14, UNLESS NOTED OTHERWI ALL DETECTOR LOOP CABLE TO BE SHI	ISE,			CROSSING GATE		<del>∑0</del> ∑>	<del>***</del>
WIRELESS ACCESS POINT	R		_	GROUND CABLE IN CONDUIT		(1)	(1)	CROSSBUCK		<b>≥</b> ≤	*
FILE NAME = USER NAME = zwellsten		DESIGNED - DAG/RCV	I PEVISED	NO. 6 SOLID COPPER (GREEN)					Te A T		GHA #4281.810
D161A92-005-Details.dgn		DESIGNED - DAG/BCK DRAWN - BCK	REVISED -		STATE OF ILLINOIS			DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A. RTE. VAR.	SECTION 11-DCCSS-00-TL	COUNTY TOTAL SHEE'S NO.  DUPAGE 123 5
PLOT SCALE = 1:20  Defoult PLOT DATE = 3/13/2015		DATE - DAD  DATE - 10-28-09	REVISED -	DEPARTI	MENT OF TRANSPO	DRTATION	SCALE: NON			TS-05	CONTRACT NO. 61A92

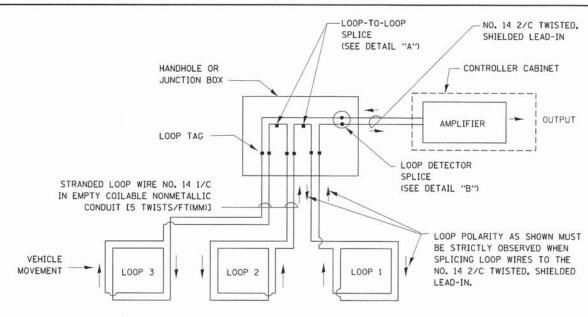
#### LOOP DETECTOR NOTES

- 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

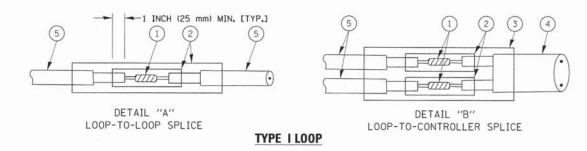


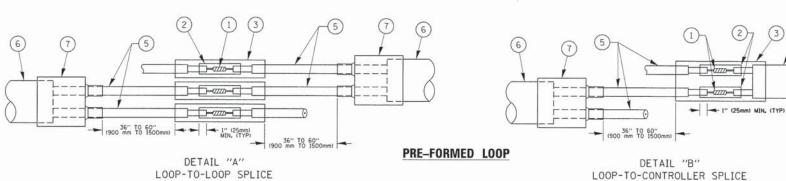
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



#### **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

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (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.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

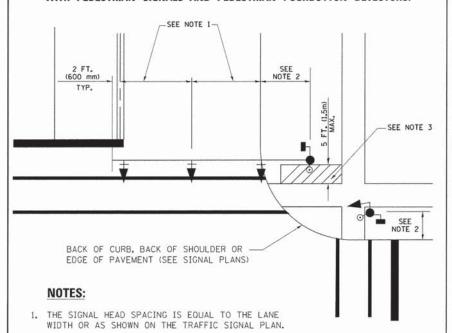
FILE NAME = USER NAME = zwallster DESIGNED - DAD REVISED - DAG 1-1-14 161A92-006-Details.dgr DRAWN REVISED BCK PLOT SCALE = 1:20 CHECKED DAD REVISED PLOT DATE = 3/13/2015 DATE 10-28-09 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 2 OF 7 SHEETS STA.

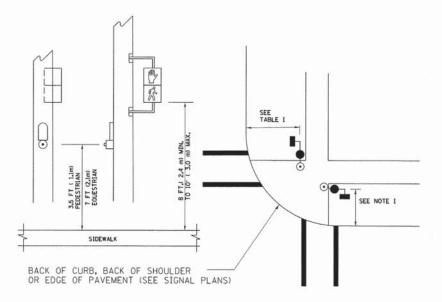
GHA #4281.810 SECTION COUNTY SHEETS NO. 11-DCCSS-00-TL DUPAGE 123 CONTRACT NO. 61A92 TS-05

# TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALKBICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



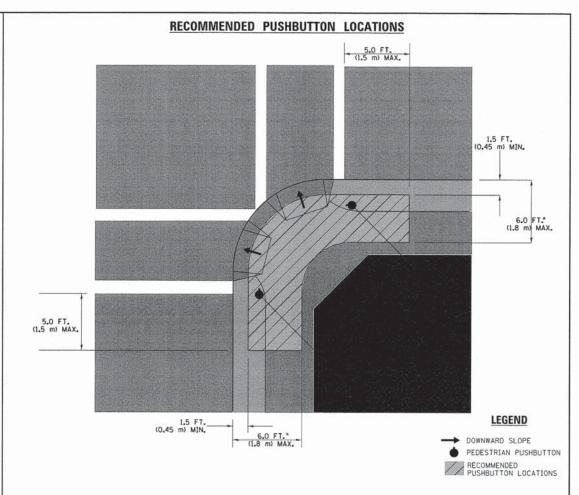
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE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

GHA #4281.810

#### 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.
- THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

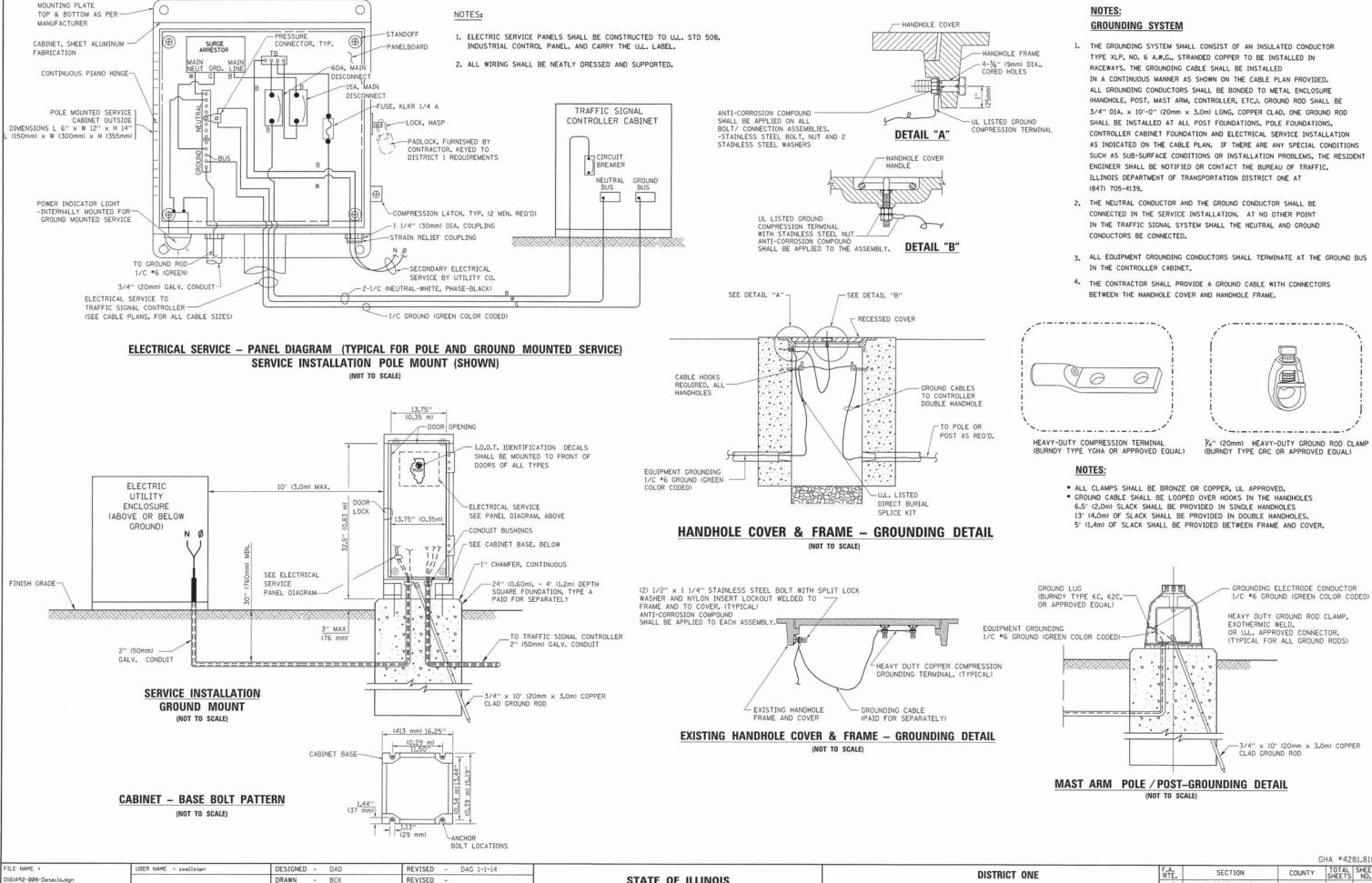
#### TRAFFIC SIGNAL EQUIPMENT OFFSET

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

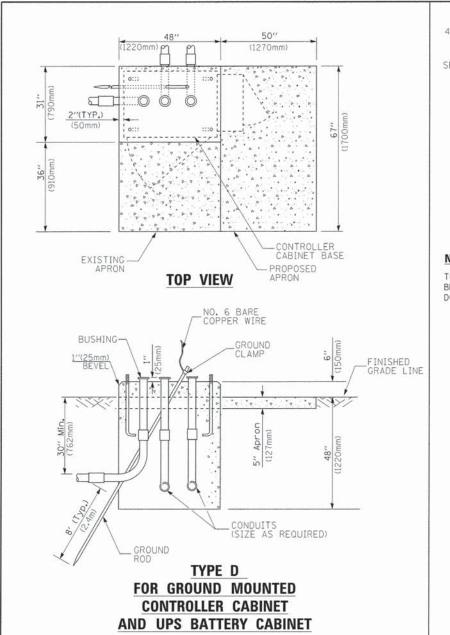
#### NOTES:

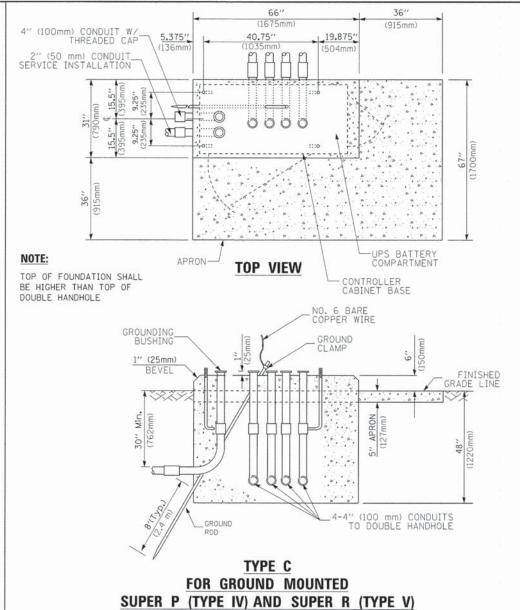
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2, MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE 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 ARM 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 = zwallsten DESIGNED - DAD REVISED - DAG 1-1-14 SECTION COUNTY SHEETS NO. DISTRICT ONE 0161A92-007-Details.dgr STATE OF ILLINOIS DRAWN BCK REVISED 11-DCCSS-00-TL DUPAGE STANDARD TRAFFIC SIGNAL DESIGN DETAILS 123 PLOT SCALE = 1:20 CHECKED DAD REVISED DEPARTMENT OF TRANSPORTATION TS-05 CONTRACT NO. 61A92 Default PLOT DATE = 3/13/2015 DATE 10-28-09 REVISED SHEET 3 OF 7 SHEETS STA. SCALE: NONE ILLINOIS FED. AID PROJECT



TOTAL SHEET SHEETS NO. DISTRICT ONE STATE OF ILLINOIS REVISED DRAWN BCK 11-DCCSS-00-TL DUPAGE 123 STANDARD TRAFFIC SIGNAL DESIGN DETAILS PLOT SCALE = 1:20 CHECKED DAD REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 61A92 TS-05 PLOT DATE = 3/13/2015 REVISED 10-28-09 SCALE: NONE SHEET 4 OF 7 SHEETS STA.





**CONTROLLER CABINETS** 

	7 E
	21/2" (64mm) (32/2" (64mm) (51mm x 152mm)
	2" × 6" (51mm × 152mm) WOOD FRAMING (TYP.)
	====
	TRAFFIC SIGNAL—— []
	UPS CABINET
	74" (19mm) TREATED PHYWOOD DECK
	2" × 6" (51mm × 152mm)  TREATED WOOD
	12" MIN.
	48° MIN (1219mm)
	NOTES: TREATED WOOD POSTS
١.	BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2.	BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
	PLATFORM SIZE FOR CONTROLLED CARINET TYPE IV

SEE NOTE 5-

- 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

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

#### VERTICAL CABLE LENGTH

CARIE	SLACK
UMBLE	SLACK

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

#### **DEPTH OF FOUNDATION**

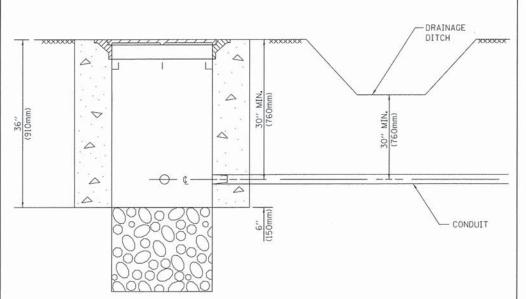
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36"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

- These foundation depths are for sites which have cohesive soils (clayey 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 most arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assembles 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

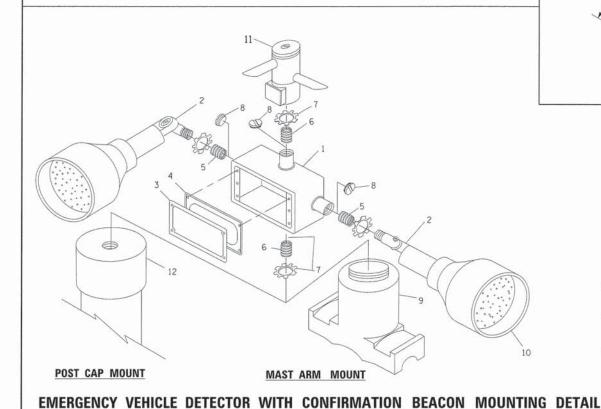
GHA #4281.810

FILE NAME =	USER NAME = zwallsten	DESIGNED - DAG	REVISED - DAG 1-1-14			DISTRICT ONE	F.A.	SECTION	COUNTY	TOTAL SHEET
D161A92-009-Details.dgn		DRAWN - BCK	REVISED -	STATE OF ILLINOIS			VAR.	11-DCCSS-00-TL	DuPAGE	SHEETS NO.
	PLOT SCALE = 1:20	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR.	TS-05		CT NO. 61A92
Default	PLOT DATE = 3/13/2015	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET 5 OF 7 SHEETS STA. TO STA.		The second secon	AID PROJECT	, I NO. BIASE



- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

### HANDHOLE WITH MINIMUM CONDUIT DEPTH



### 36" (1675mm) (915mm) 40.75" 19.875" (136mm (1035mm) (504mm) 0 CONTROLLER CABINET BASE TOP VIEW NO. 3 DOWEL 18" (450mm) LONG (8 REO.) BUSHING -ANCHOR BOLTS 1"(25mm) BEVEL

### MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

-EXISTING CONDUITS

EXISTING GROUND ROD

(NOT TO SCALE)

#### RO.50" DRAIN 0.25"-MATERIAL: -0.31"(8mm) -0.20"(5mm) - ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED HEIGHT WEIGHT VARIES 19"(483mm) 7" (178mm) - 12" (300mm) 53 lbs (24kg) VARIES 21.5"(546mm 68 lbs (31 kg) VARIES " (178mm) - 12" (300mn 81 lbs (37 kg) VARIES 7" (178mm) - 12" (300m 126 lbs (57 kg) SHROUD 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. SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING. DIMENSION 4" (100mm) LARGER THAN CONTROLLER CABINET BASE DIMENSION, BOTH DIRECTIONS (25mm) BREAK DOWN EXISTING FOUNDATION 12" (300mm) -12" (300mm

9" (225mm) 9" (225mm)-

EXISTING CONDUIT — 2" (50mm), 4" (100mm) & 4" (100mm)

EXISTING TYPE D (CONTROLLER) FOUNDATION

### OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) LAMP HOLDER AND COVER OUTLET BOX COVER 4 RUBBER COVER GASKET REDUCING BUSHING 3/4"(19 mm) CLOSE NIPPLE 7 34"(19 mm) LOCKNUT 8 34"(19 mm) LOCKNUT 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP

#### NOTES:

- 1. 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.

# EXISTING CONDUIT TO BE REMOVED EXISTING CONDUIT TO REMAIN PLAN ELEVATION

MODIFY EXISTING TYPE "D" FOUNDATION

SCALE: NONE

- 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 INCLUDED WITH THE COST OF THE HANDHOLE.

#### HANDHOLE TO INTERCEPT EXISTING CONDUIT

GHA #4281.810

NEW ANCHOR BOLTS

No. 3 DOWEL 1'-6" (450mm) LONG ON 12" (300mm) CENTER (8 REO'D)

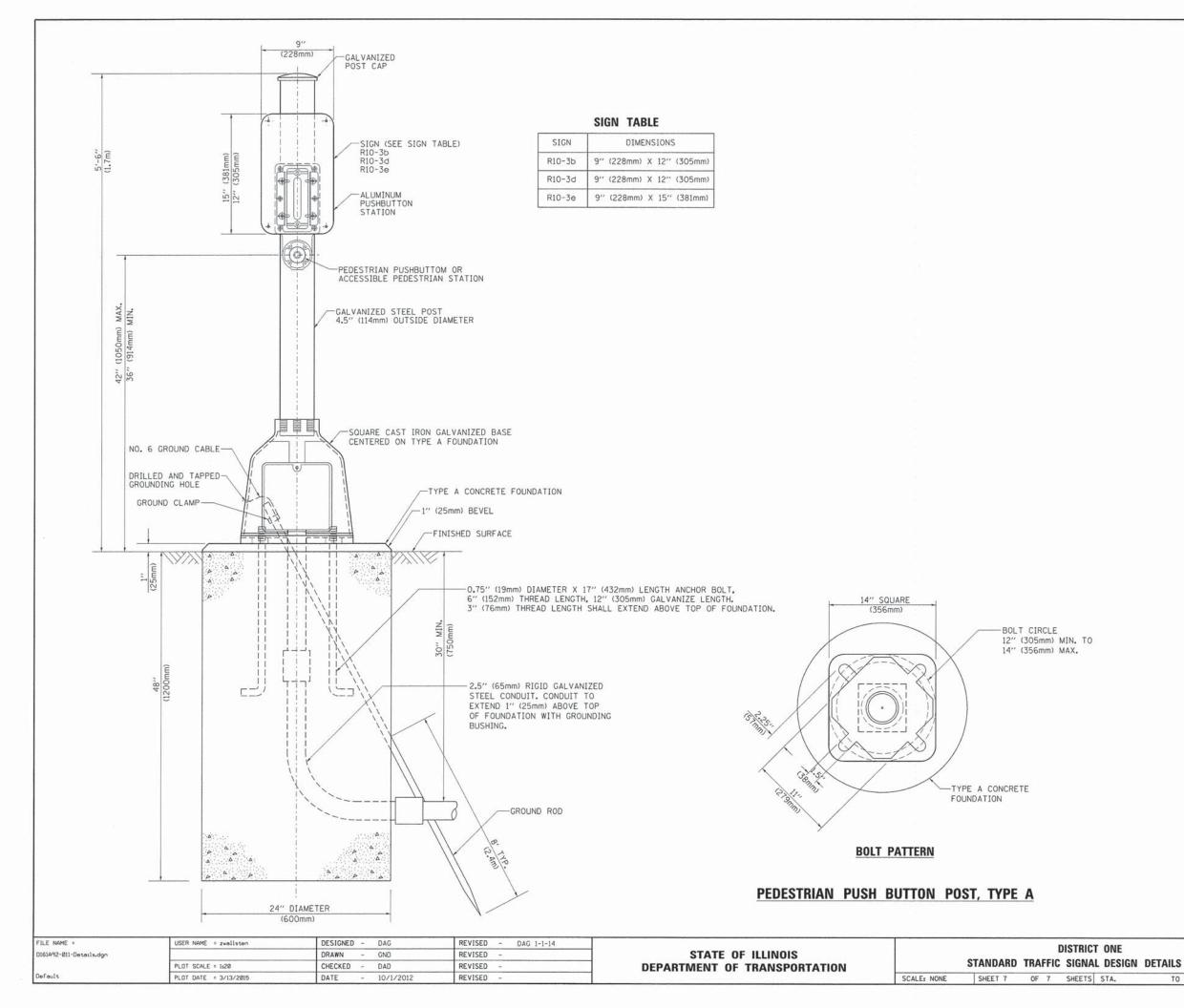
NEW TYPE "D" (MODIFIED)
FOUNDATION

9" (225mm)

FILE NAME = REVISED - DAG 1-1-14 161A92-010-Details.dgr DRAWN REVISED BCK PLOT SCALE = 1:20 CHECKED REVISED PLOT DATE = 3/13/2015 10-28-09 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

		_							A111-1111-1-1111	
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		DISTRIC	Γ ONE		F.A. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.	
		DETAILS	VAR.	11-DCCSS-00-TL	DuPAGE	123	10			
		V DETAILS		TS-05	CONTRAC	T NO.	61A92			
SHEET 6	OF	7	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



GHA #4281.810
TOTAL SHEET NO.

DuPAGE 123 11 CONTRACT NO. 61A92

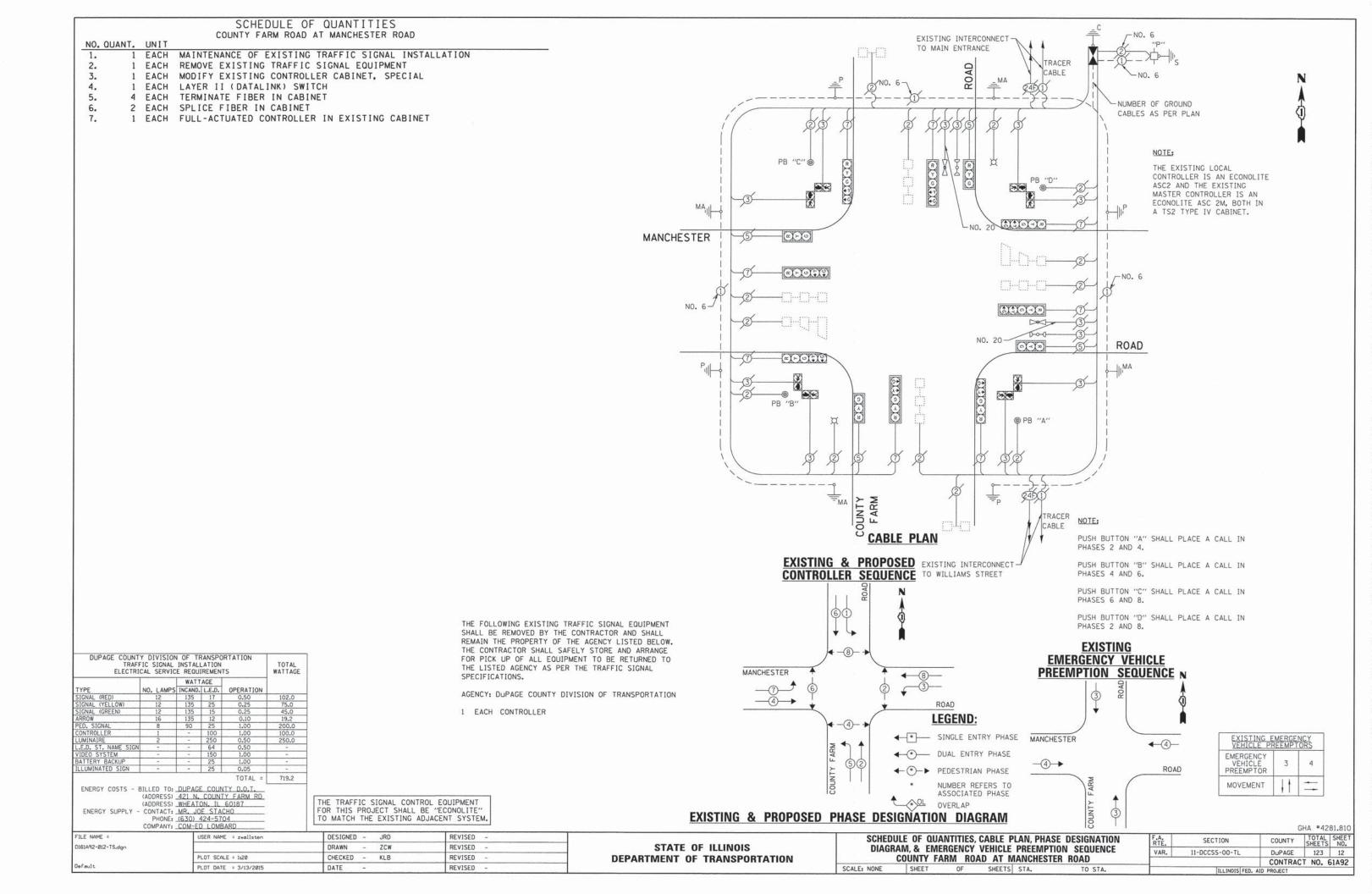
COUNTY

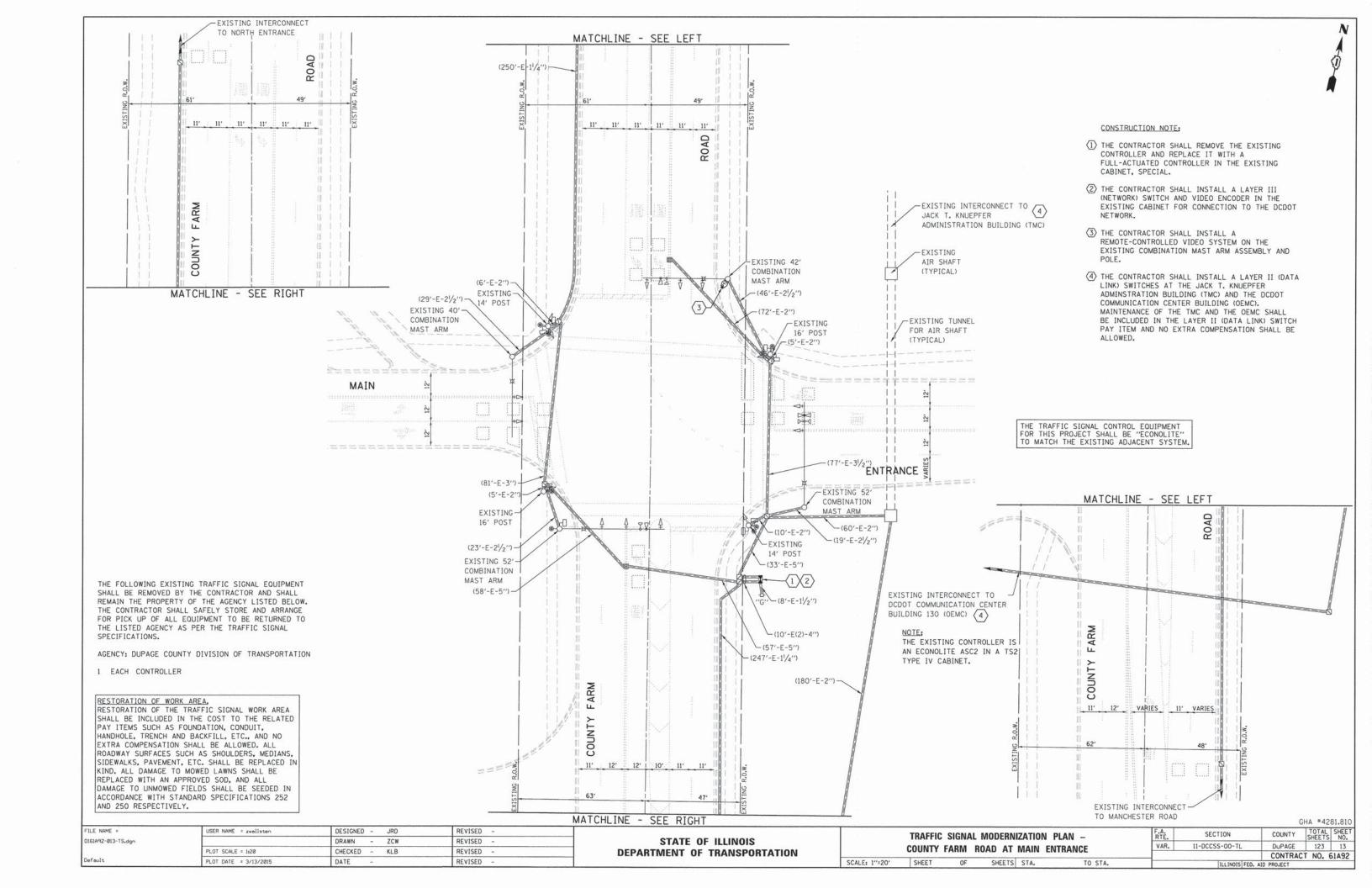
SECTION

11-DCCSS-00-TL

TS-05

VAR.





### SCHEDULE OF QUANTITIES COUNTY FARM AT MAIN ENTRANCE

			COUNTY FARM AT MAIN ENTRANCE	
NO.	QUANT.	UNIT		
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	
2.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	
3.	1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	
4.	1	EACH	REMOTE CONTROLLED VIDEO SYSTEM	
5.	1	EACH	LAYER II (DATALINK) SWITCH	
6.	12	EACH	TERMINATE FIBER IN CABINET	
7.	246	FOOT	OUTDOOR RATED NETWORK CABLE	
8.	1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	

#### SCHEDULE OF QUANTITIES DCDOT COMMUNICATION BUILDING 130 (OEMC)

NO. QUA	ANI.	UNII	
1.	4	EACH	TERMINATE FIBER IN CABINET
2.	1	EACH	LAYER III (NETWORK) SWITCH
3.	1	EACH	SPLICE FIBER IN CABINET
4.	1	EACH	FIREWALL

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS							
	WATTAGE						
TYPE	NO. LAMPS	45.040.00.00		OPERATION	in-synchology		
SIGNAL (RED)	16	135	17	0.50	136.0		
SIGNAL (YELLOW)	16	135	25	0.25	100.0		
SIGNAL (GREEN)	16	135	15	0.25	60.0		
ARROW	8	135	12	0.10	9.6		
PED. SIGNAL	8	90	25	1.00	200.0		
CONTROLLER	1	-	100	1.00	100.0		
LUMINAIRE	2		250	0.50	250.0		
L.E.D. ST. NAME SIGN	2	-	64	0.50	64.0		
VIDEO SYSTEM	-	-	150	1.00	-		
BATTERY BACKUP	97	-	25	1.00	-		
ILLUMINATED SIGN			25	0.05			
				TOTAL =	919.6		

ENERGY COSTS - BILLED TO: DUPAGE COUNTY D.O.T.

(ADDRESS) 421 N. COUNTY FARM RD

(ADDRESS) WHEATON, IL 60187

ENERGY SUPPLY - CONTACT: MR. JOE STACHO

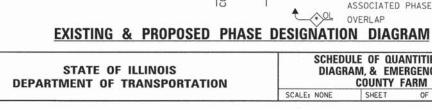
PHONE: (630) 424-5704

COMPANY. COMPANY. COMPANY. COMPANY.

COMPANY: COM-ED LOMBARD

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

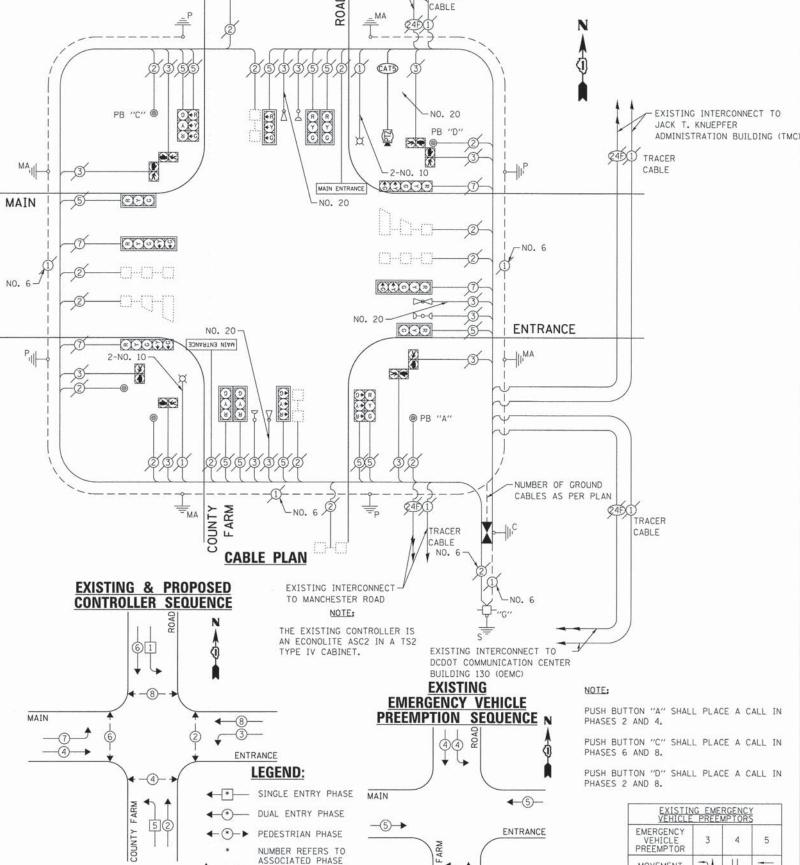
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	DRAWN - ZCW	REVISED -			
PLOT SCALE = 1:20	CHECKED - KLB	REVISED -			
PLOT DATE = 3/16/2015	DATE -	REVISED -			
	USER NAME = zwellsten PLOT SCALE = 1:20	USER NAME = zwellsten	USER NAME = zwellsten		



SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE COUNTY FARM ROAD AT MAIN ENTRANCE SHEET SHEETS STA.

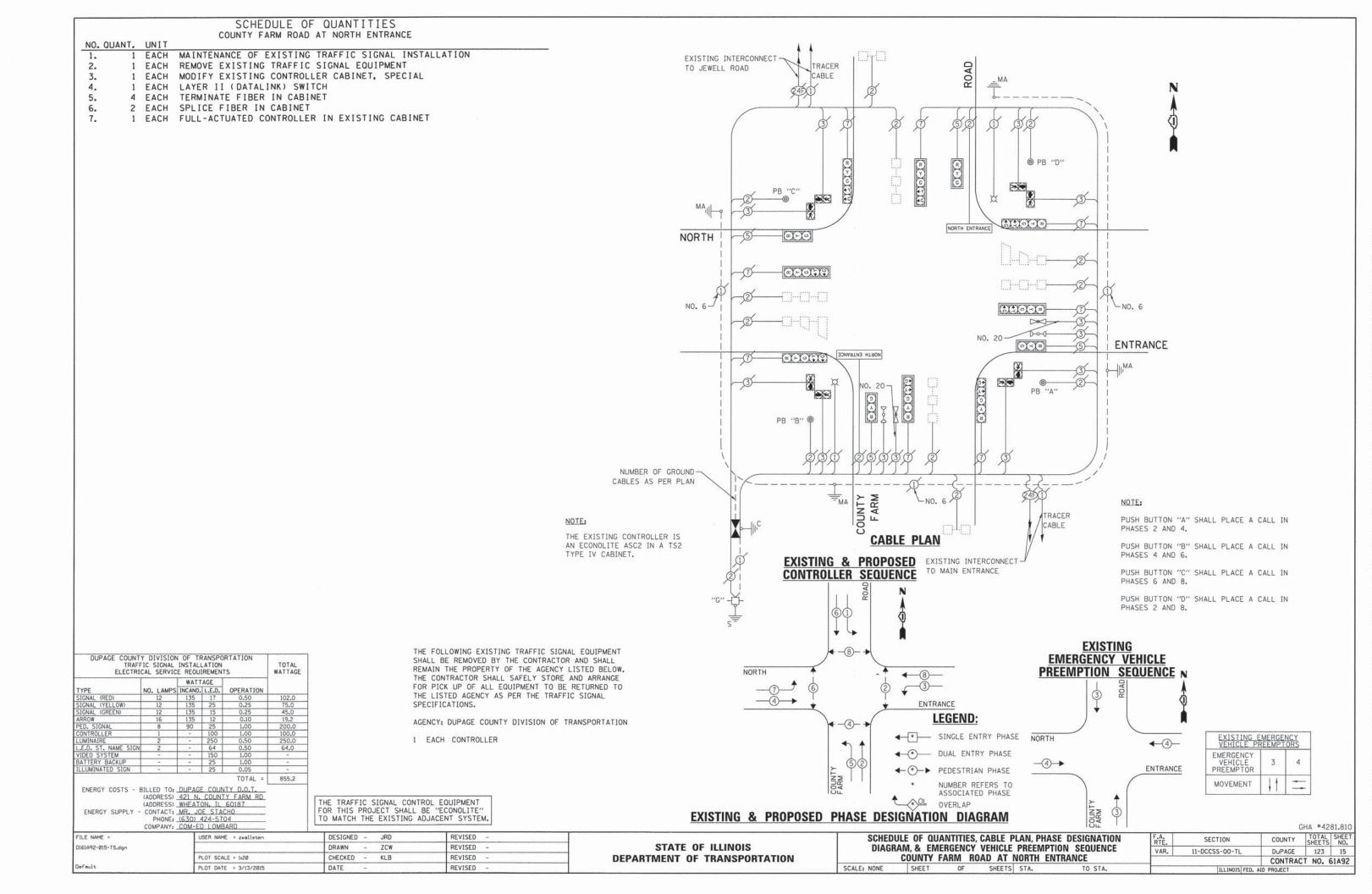
GHA #4281.810 SECTION COUNTY VAR. 11-DCCSS-00-TL DuPAGE 123 14 CONTRACT NO. 61A92

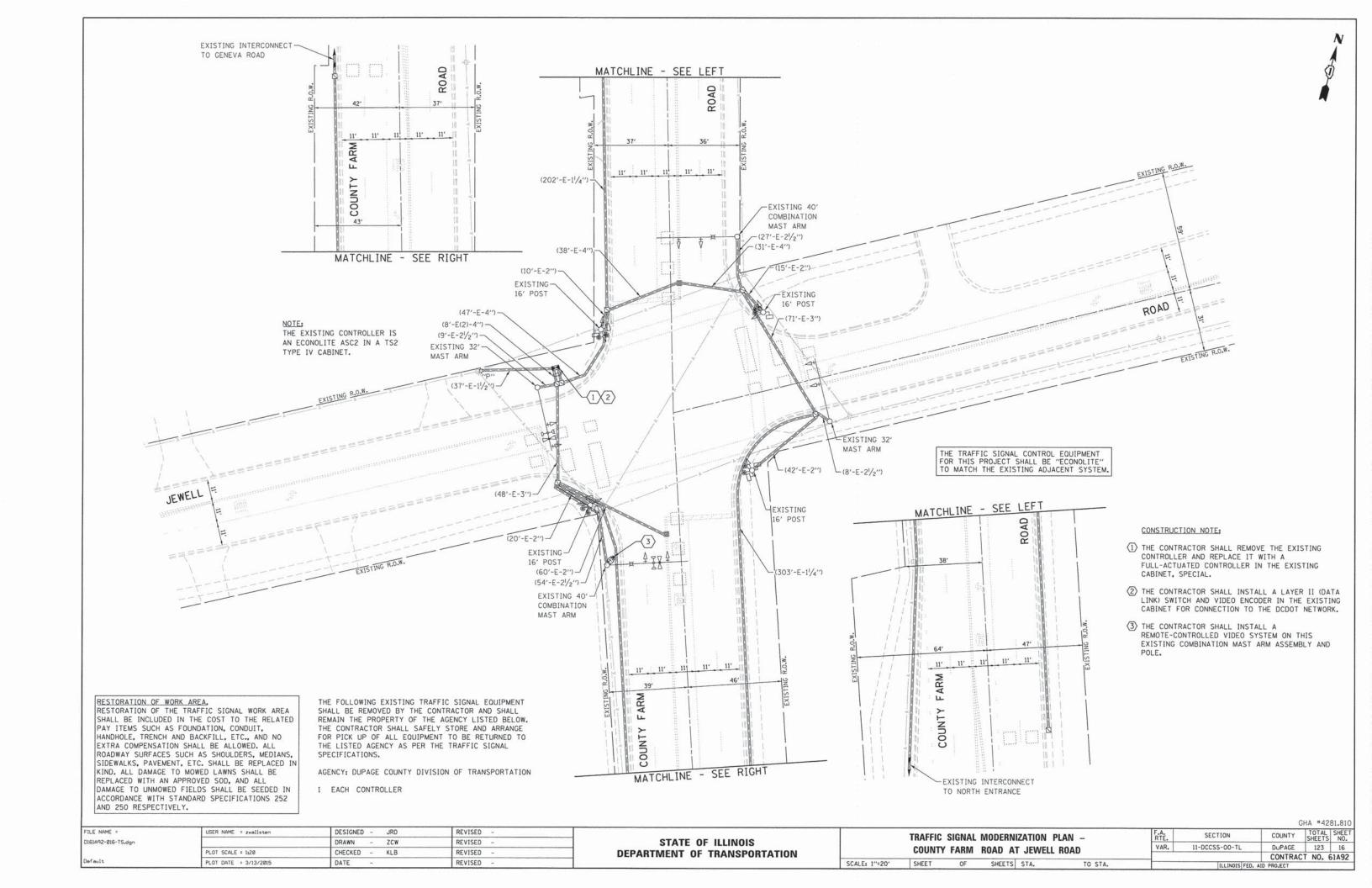
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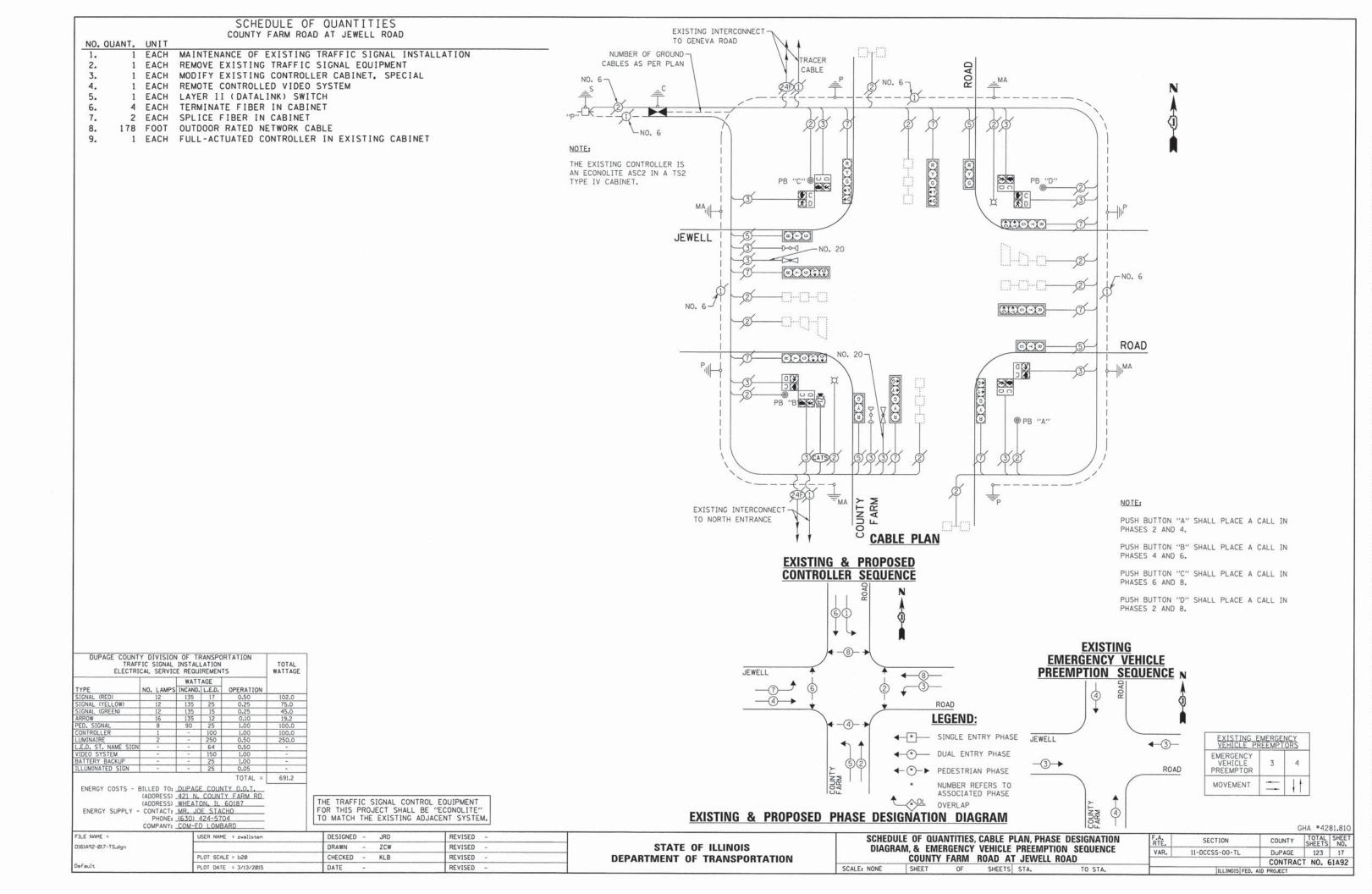


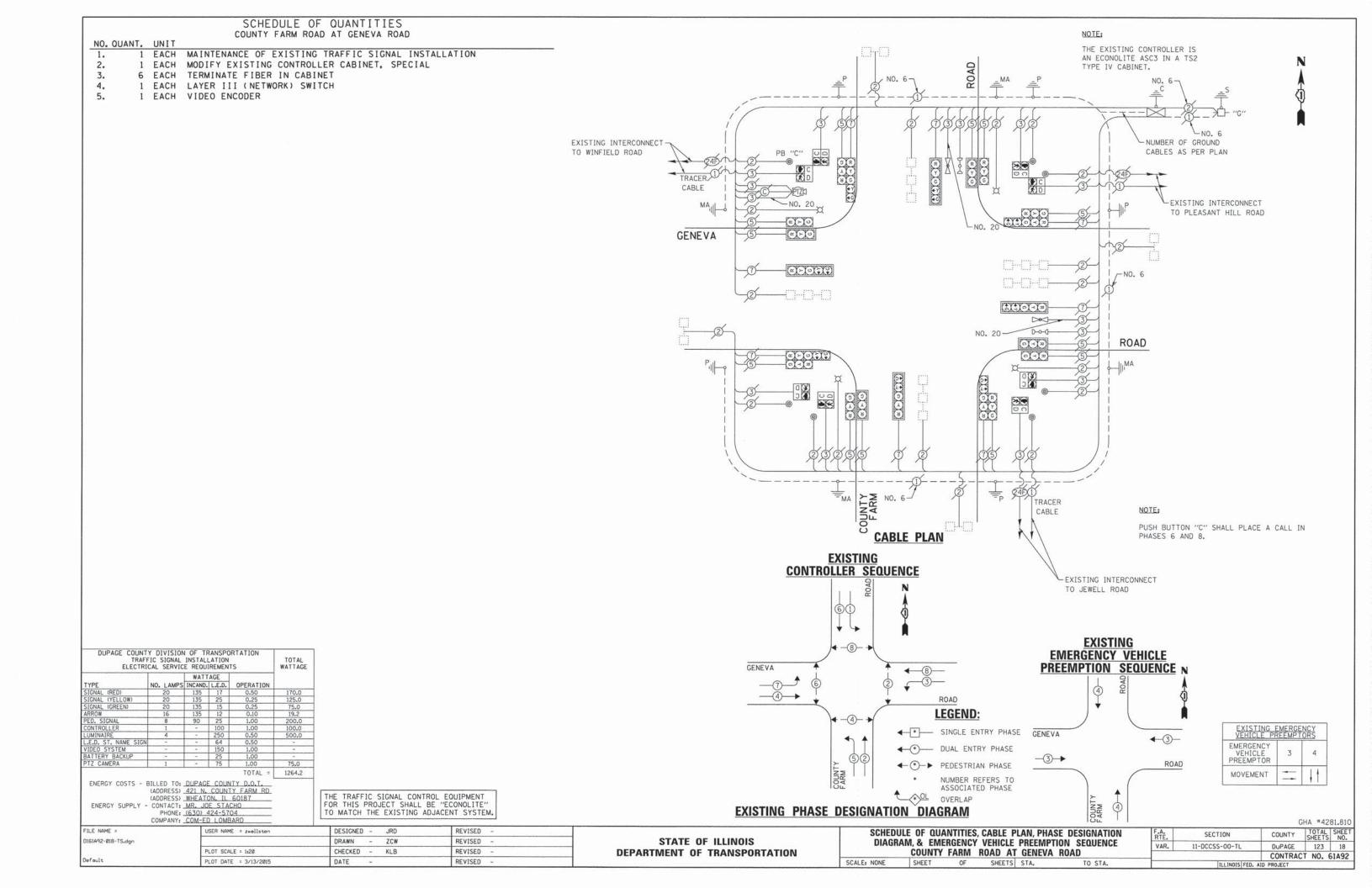
EXISTING INTERCONNECT TO NORTH ENTRANCE

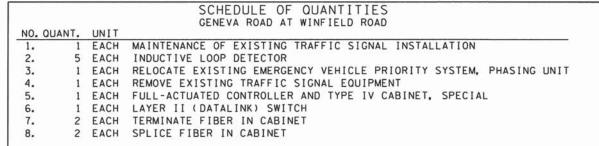
TRACER











NUMBER OF GROUND CABLES AS PER PLAN -EXISTING INTERCONNECT TO COUNTY FARM ROAD **GENEVA** D-0-0 0(3) ROAD WINFIELD  $\stackrel{+}{=}_{MA}$ **CABLE PLAN** 

NOTE;

THE EXISTING CONTROLLER IS

AN ECONOLITE ASC2 IN A TS1

TYPE IV CABINET.

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH CONTROLLER AND CABINET (COMPLETE)

	FIC SIGNAL CAL SERVIC			rs	TOTAL WATTAGE	
	1	WATT	AGE			
TYPE	NO. LAMPS	INCAND. L.E.D		OPERATION		
SIGNAL (RED)	9	135	17	0.50	76.5	
SIGNAL (YELLOW)	9	135	25	0.25	56.25	
SIGNAL (GREEN)	10	135	15	0.25	37.5	
ARROW	4	135	12	0.10	4.8	
PED. SIGNAL	6	90	25	1.00	150.0	
CONTROLLER	1		100	1.00	100.0	
LUMINAIRE	-	-	250	0.50	-	
L.E.D. ST. NAME SIGN	-	-	64	0.50		
VIDEO SYSTEM	-	-	150	1.00	20	
BATTERY BACKUP	-	-	25	1.00	-	
PTZ CAMERA		-	75	1.00		
			-	TOTAL =	425.05	

(ADDRESS) WHEATON, IL 60187 ENERGY SUPPLY - CONTACT: MR. JOE STACHO THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8. **EXISTING & PROPOSED CONTROLLER SEQUENCE** EXISTING EMERGENCY VEHICLE GENEVA PREEMPTION SEQUENCE LEGEND: EXISTING EMERGENCY VEHICLE PREEMPTORS ◆ SINGLE ENTRY PHASE GENEVA 4-3-EMERGENCY VEHICLE PREEMPTOR DUAL ENTRY PHASE ROAD **←** → PEDESTRIAN PHASE MOVEMENT NUMBER REFERS TO ASSOCIATED PHASE **EXISTING & PROPOSED PHASE DESIGNATION DIAGRAM** 

NOTE:

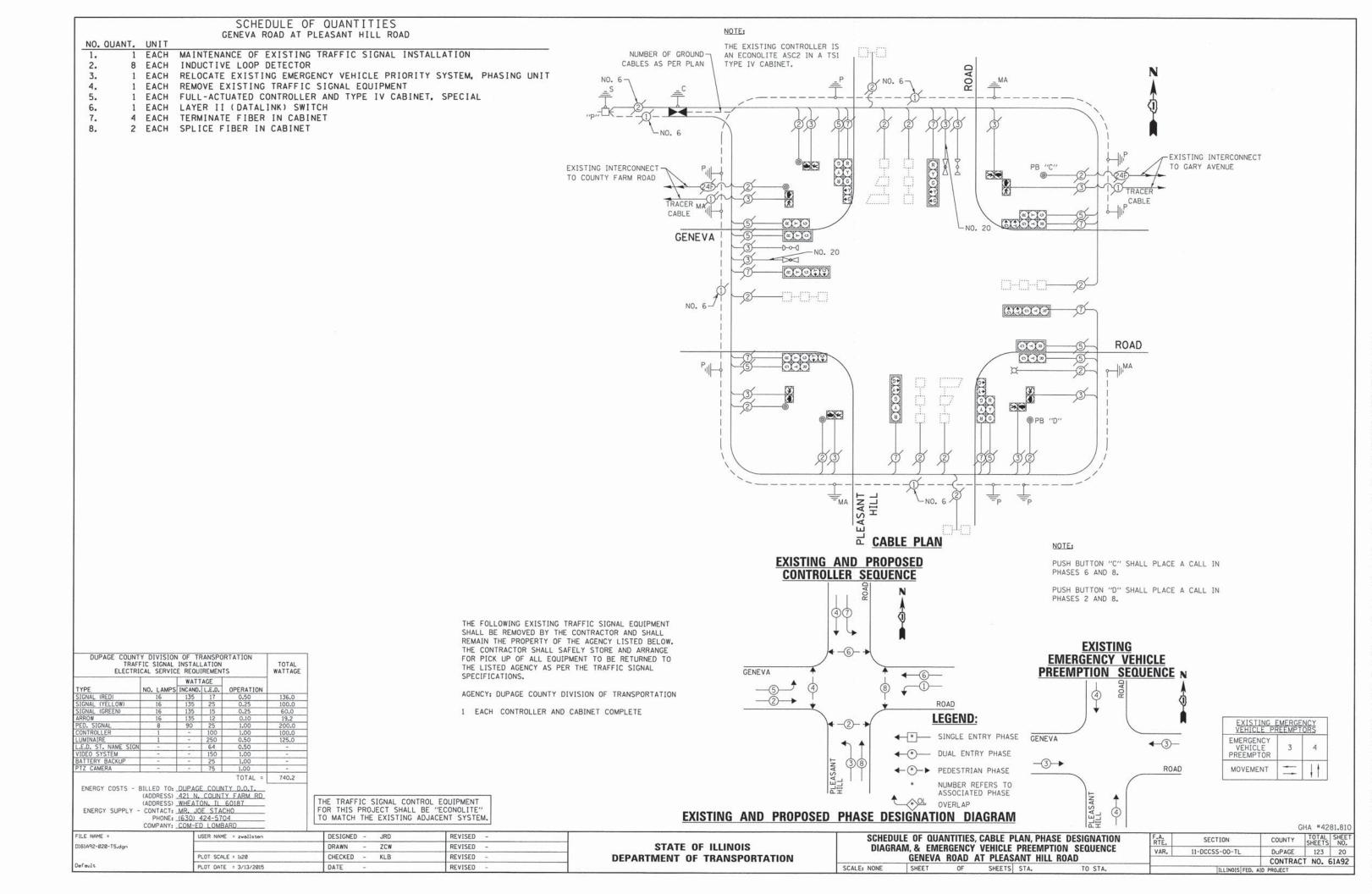
PHONE: (630) 424-5704 COMPANY: COM-ED LOMBARD FILE NAME = USER NAME = zwallster DESIGNED -JRD REVISED 161A92-019-TS.dgn DRAWN ZCW REVISED PLOT SCALE = 1:20 CHECKED -KLB REVISED PLOT DATE = 3/13/2015 DATE REVISED

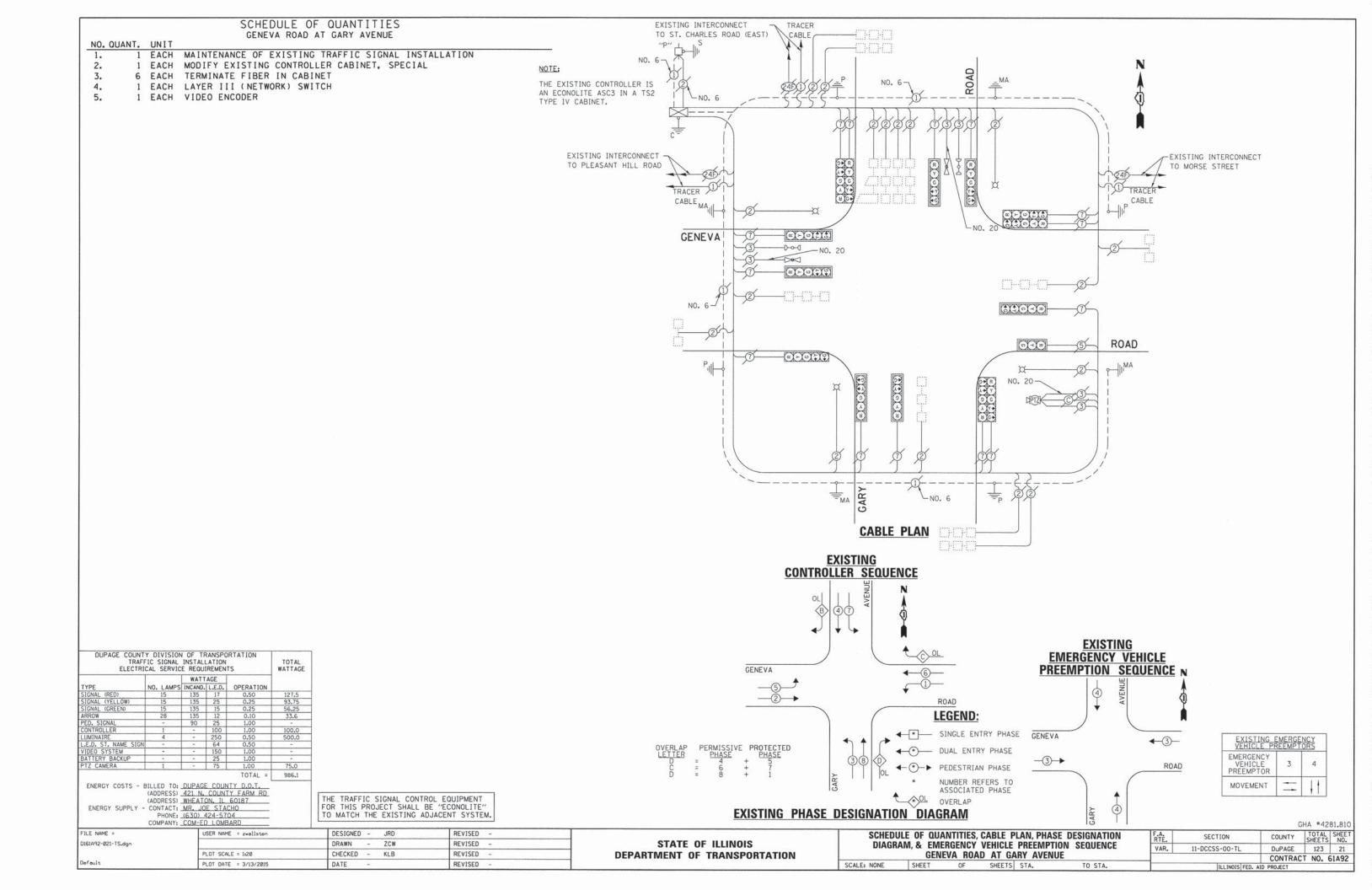
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

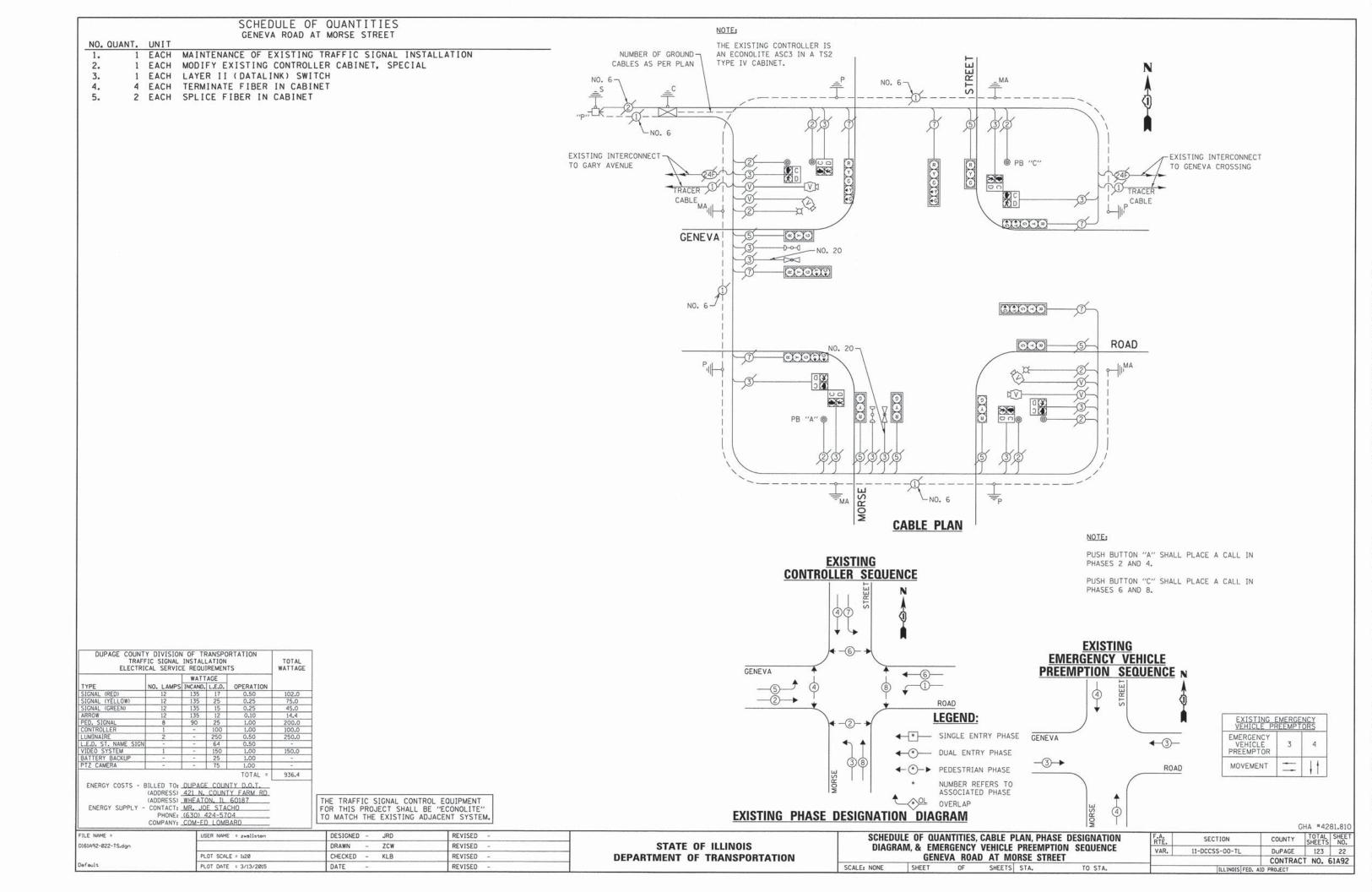
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE GENEVA ROAD AT WINFIELD ROAD

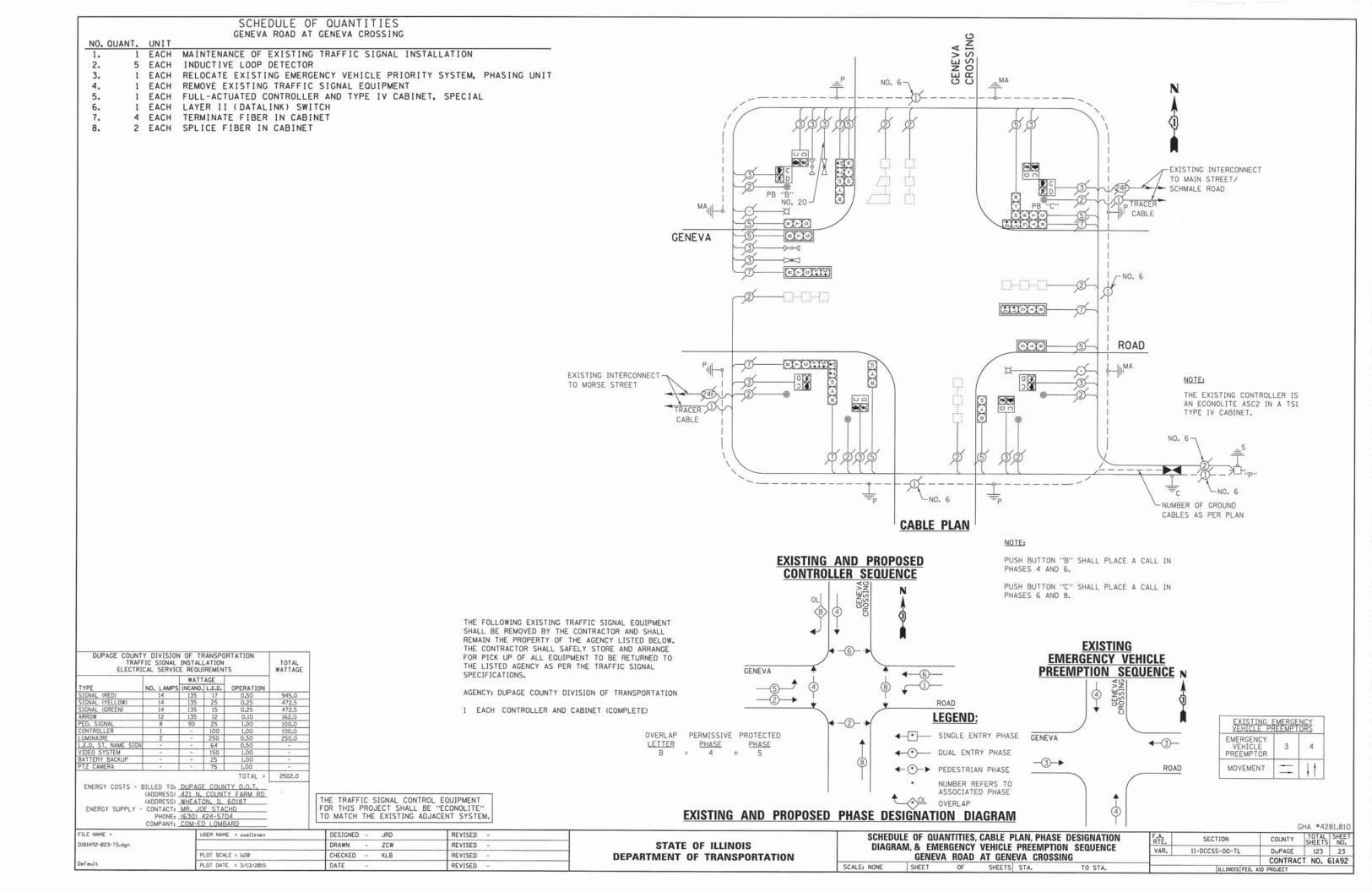
NONE SHEET OF SHEETS STA. TO STA.

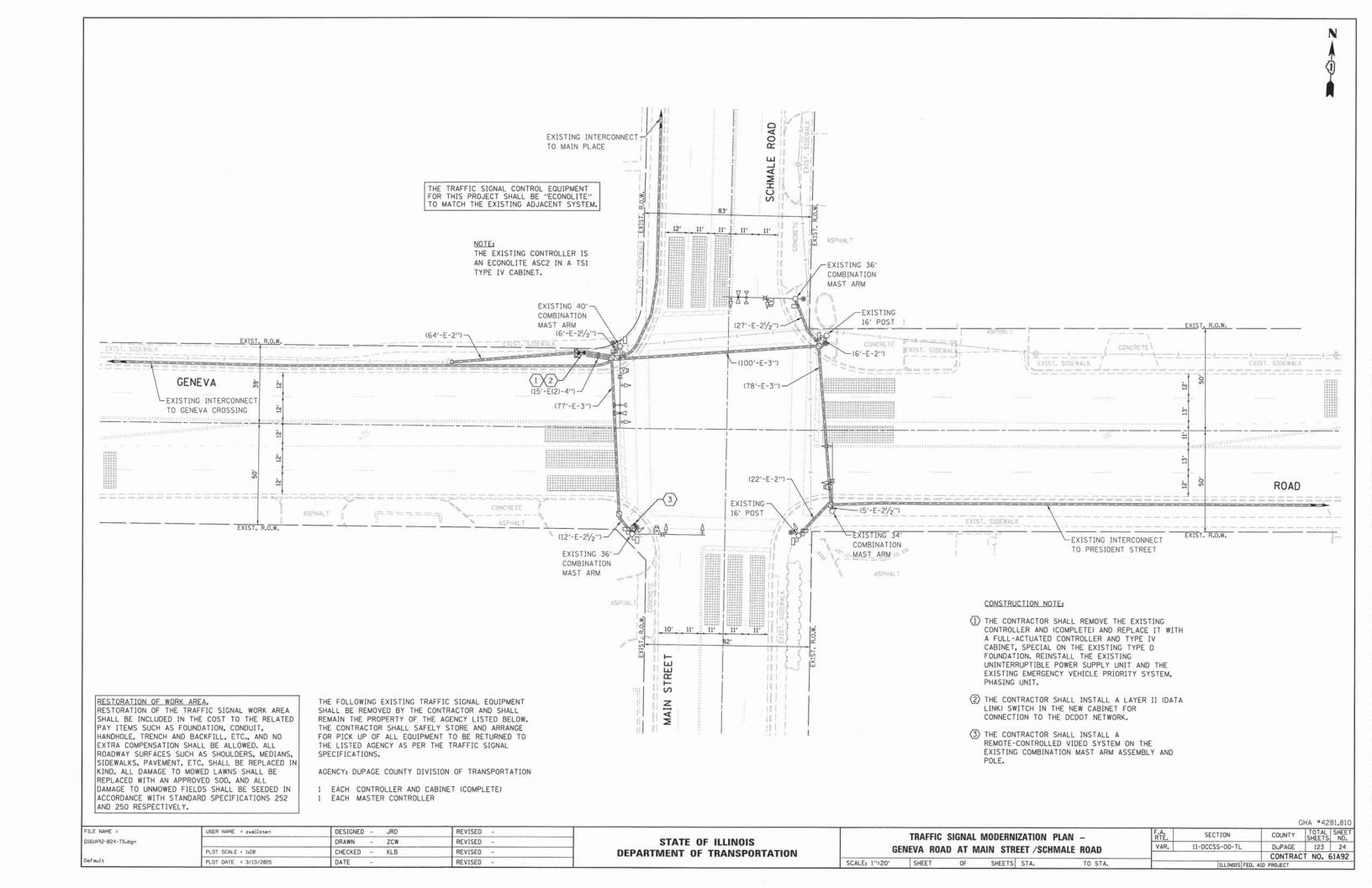
| CONTRACT NO. 61A92

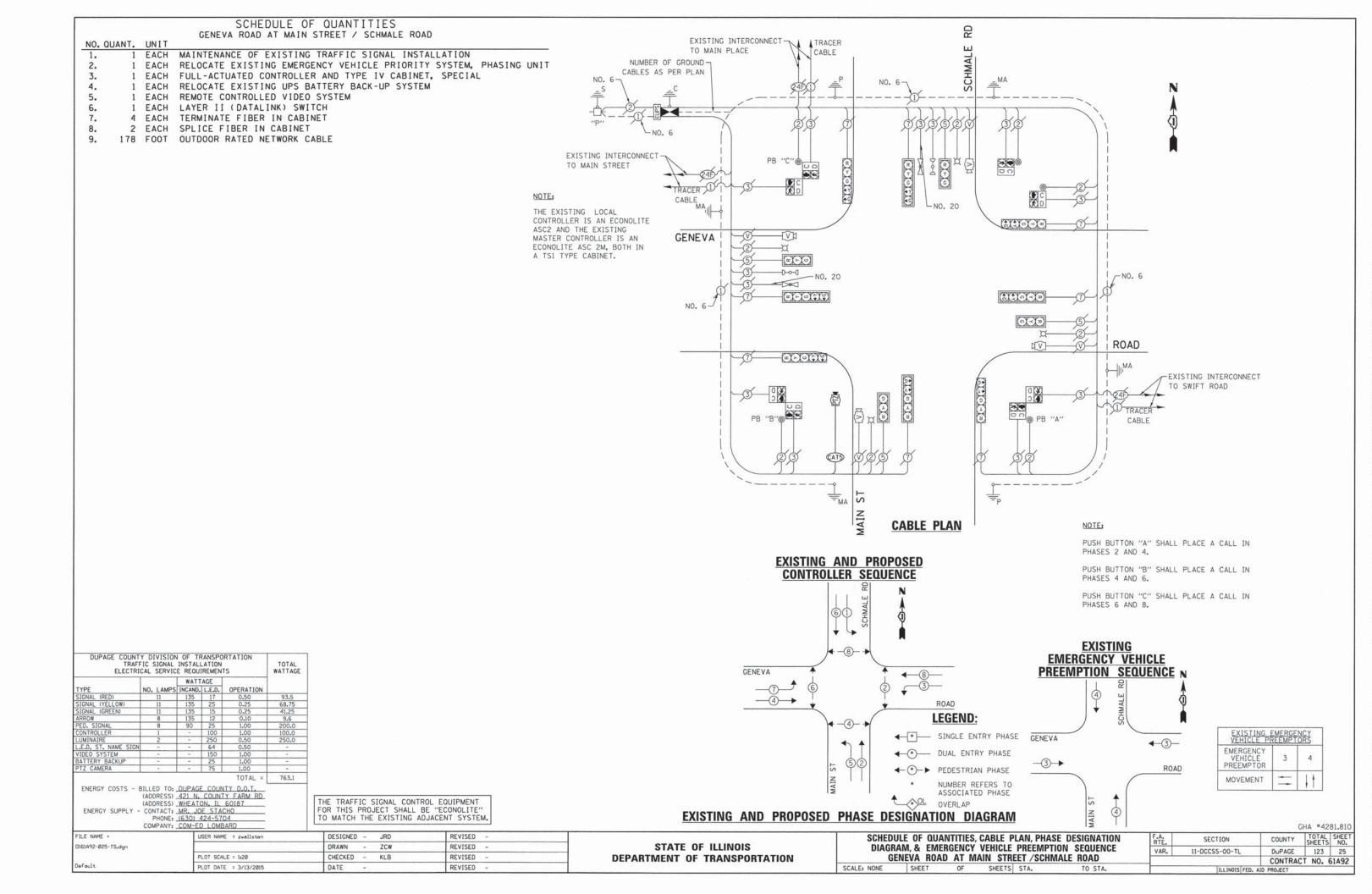


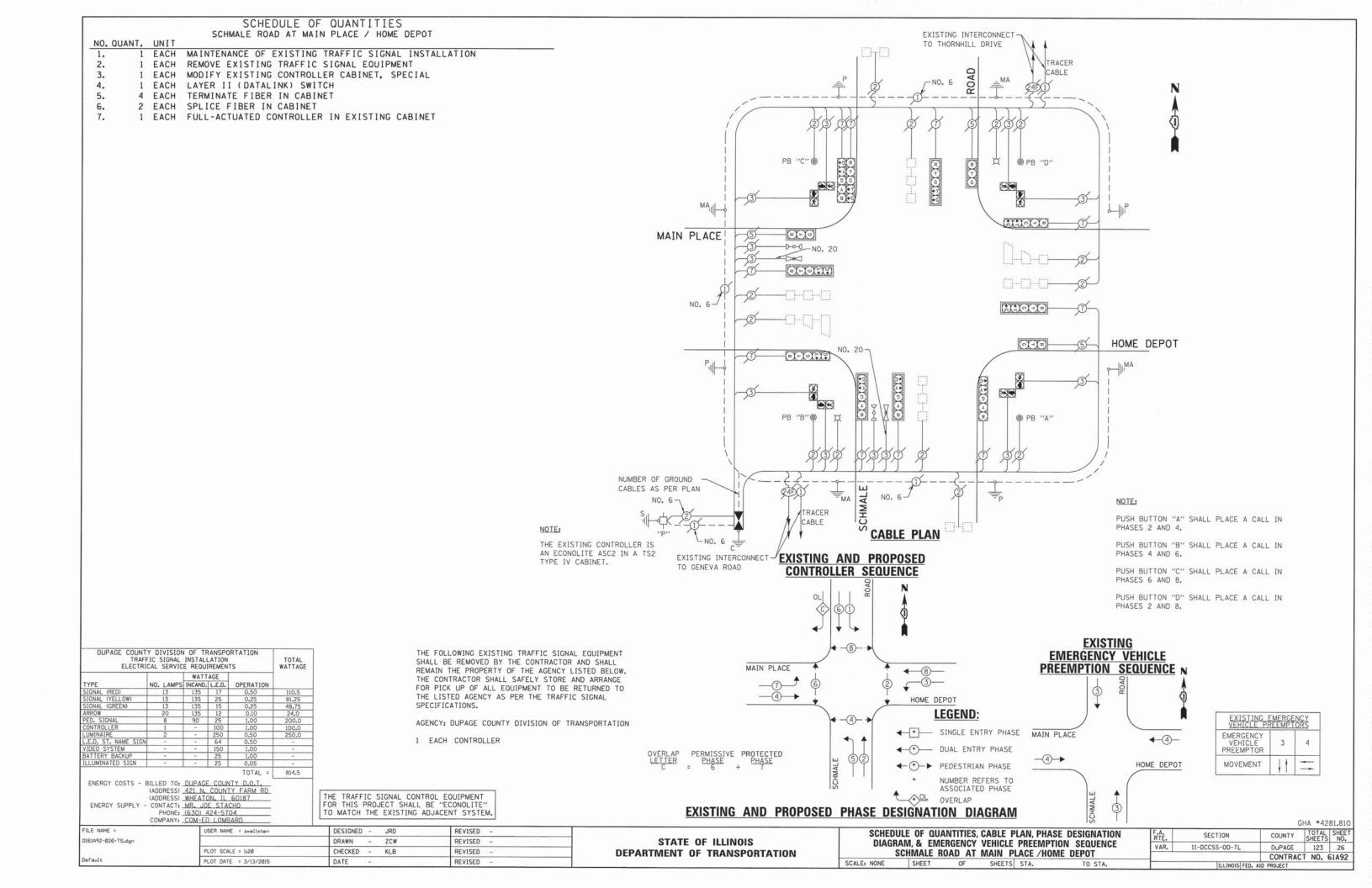


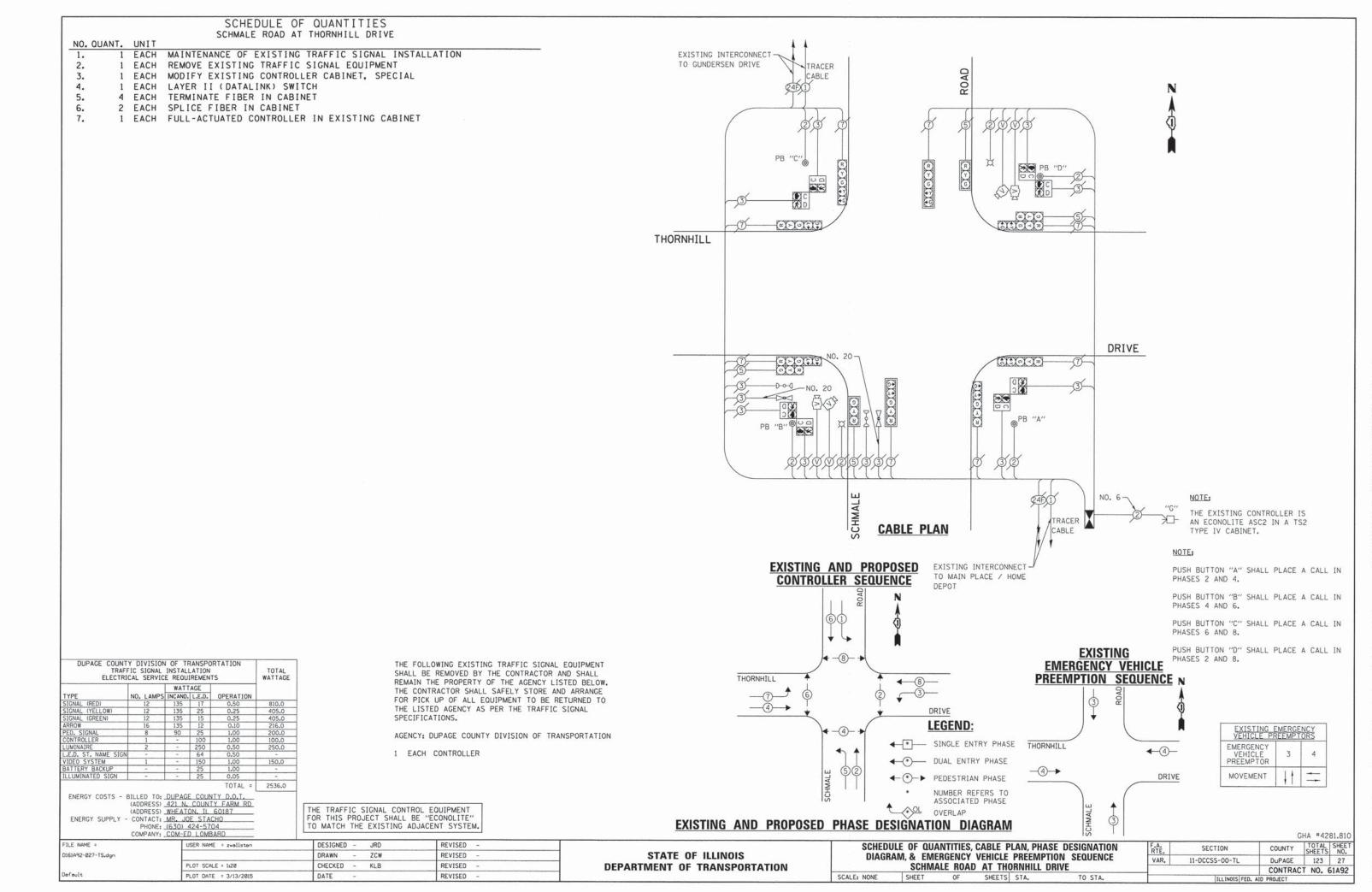


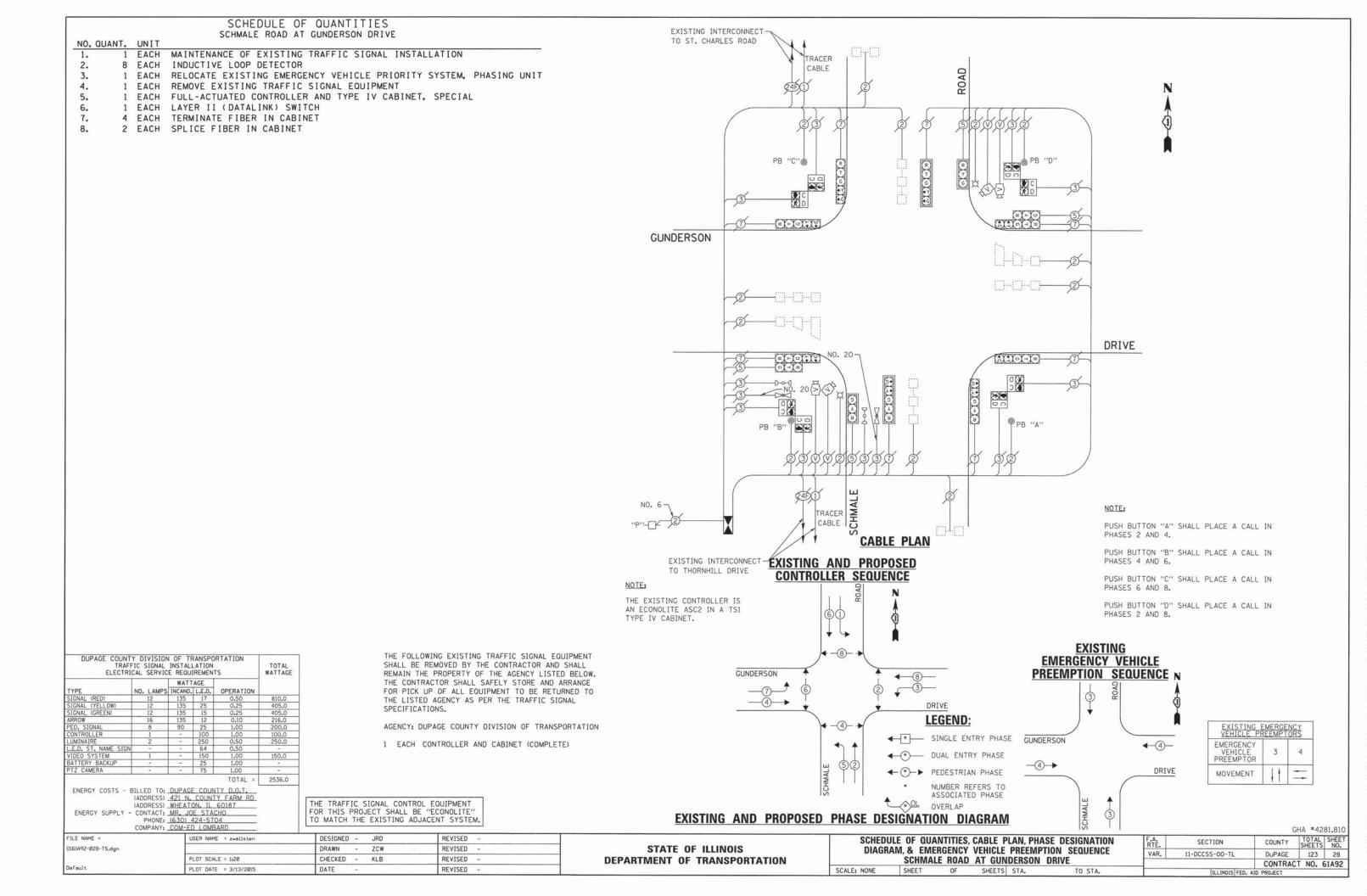


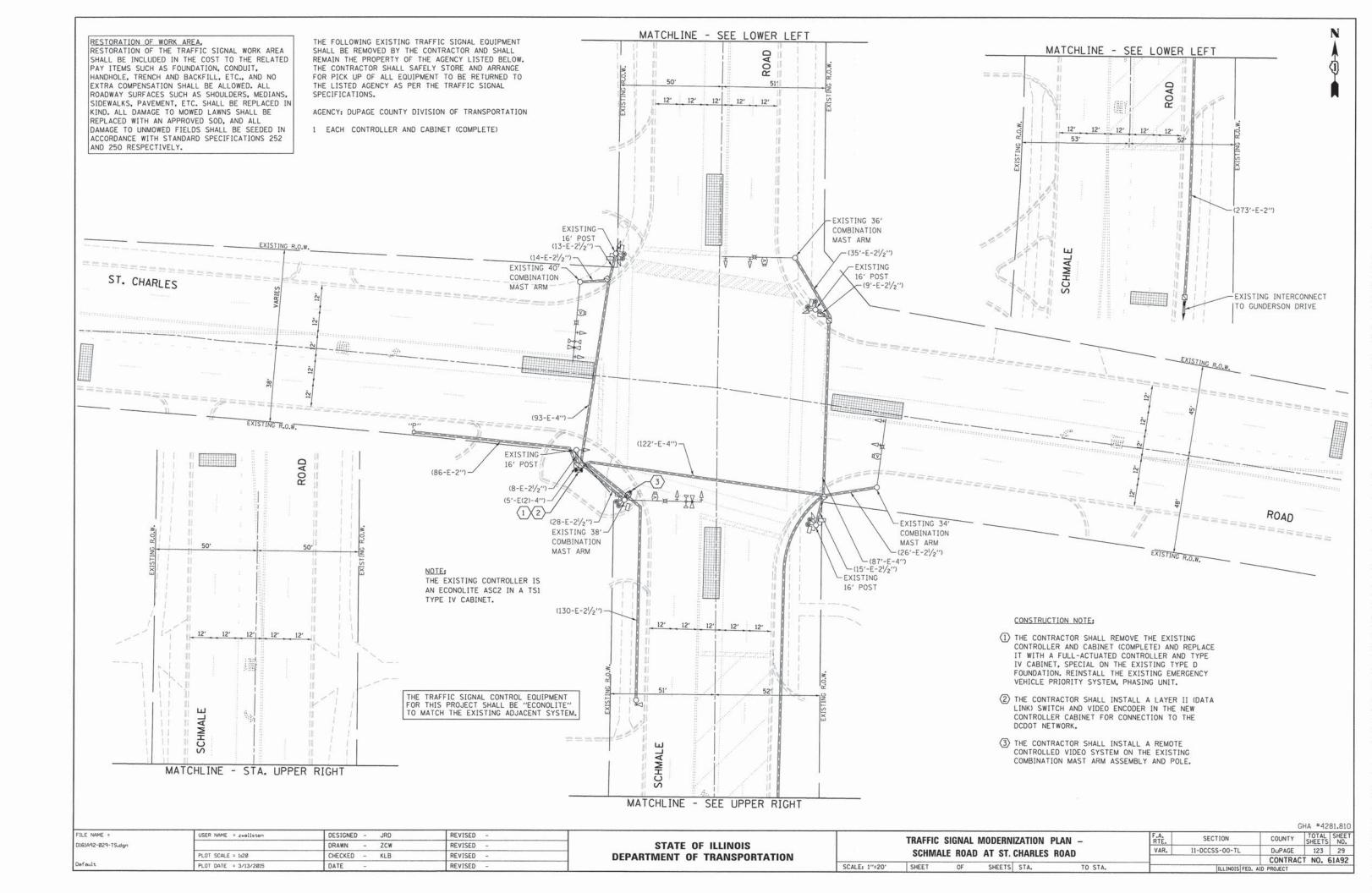


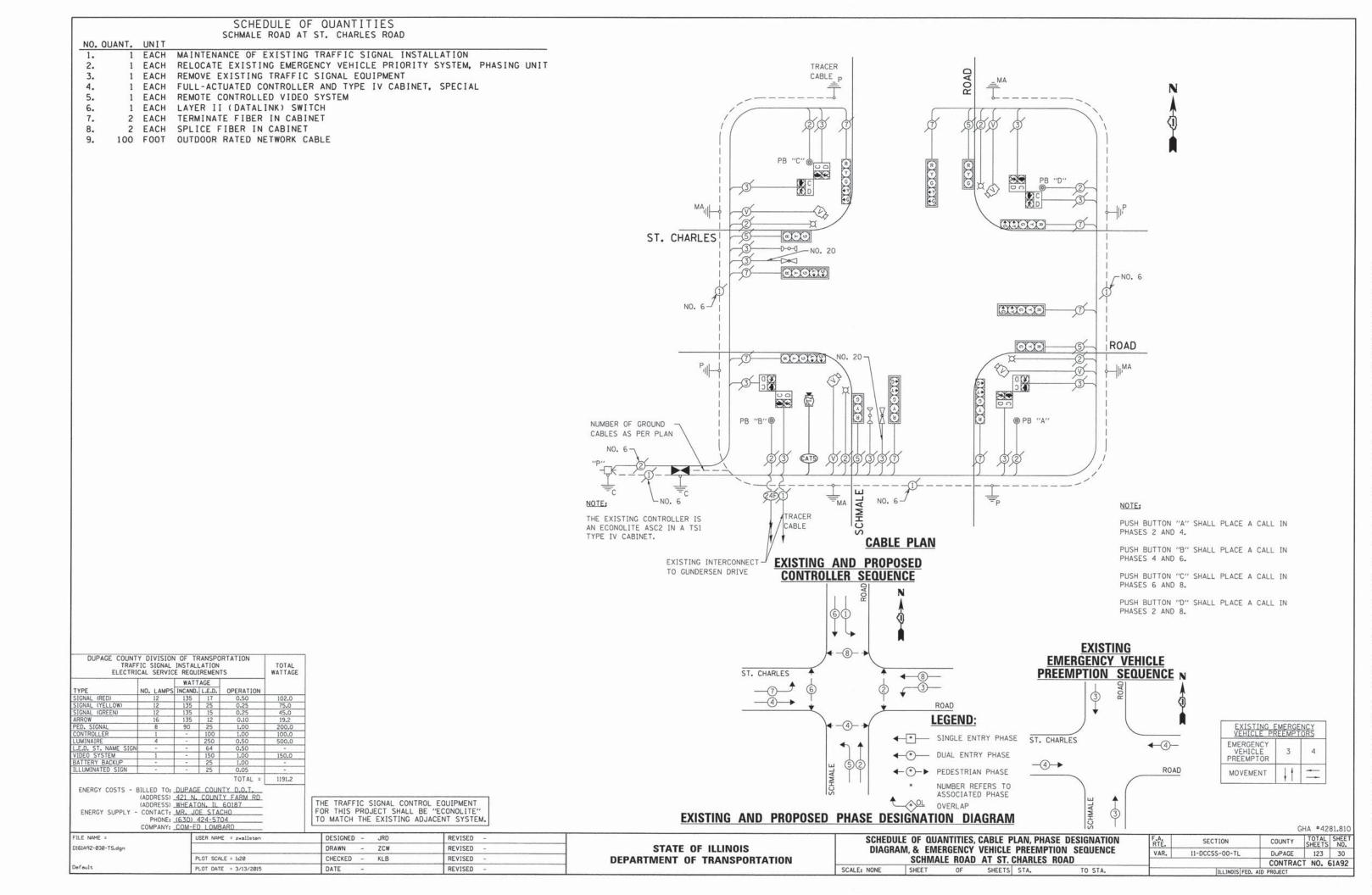


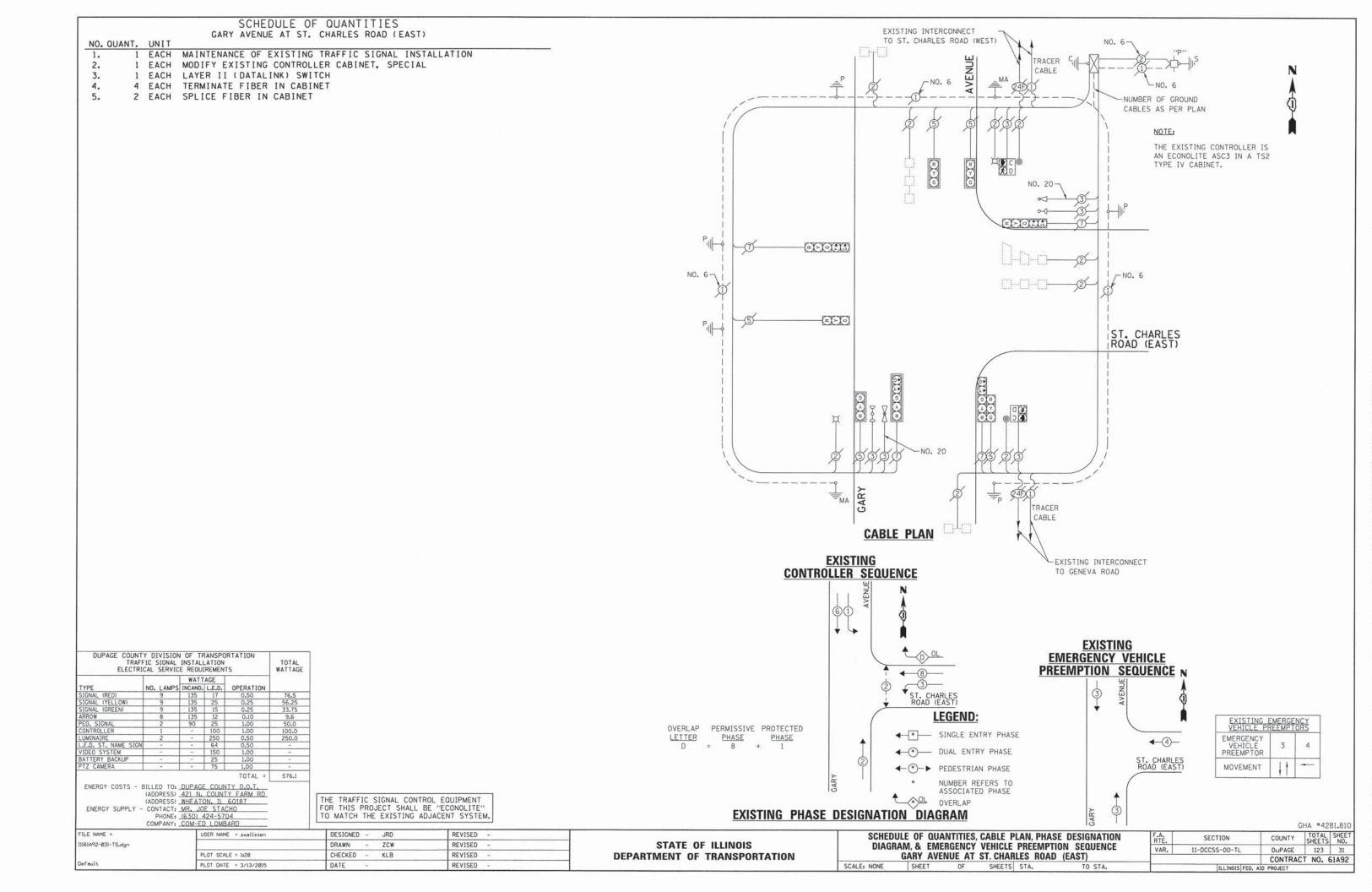












### SCHEDULE OF QUANTITIES GARY AVENUE AT ST. CHARLES ROAD (WEST)

EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 2.

EACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL

1 EACH LAYER II (DATALINK) SWITCH 2 EACH TERMINATE FIBER IN CABINET

NO. QUANT. UNIT

2 EACH SPLICE FIBER IN CABINET

1 EACH FULL-ACTUATED CONTROLLER IN EXISTING CABINET

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH CONTROLLER

DUPAGE COUNTY DIVISION OF TRANSPORTATION TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. LAMPS INCAND. L.E.D. 639.8

WATTAGE

ENERGY COSTS - BILLED TO: DUPAGE COUNTY D.O.T.

(ADDRESS) 421 N. COUNTY FARM RD.

(ADDRESS) WHEATON, IL 60187 ENERGY SUPPLY - CONTACT: MR. JOE STACHO

FILE NAME =

D161A92-032-TS.dgn

COMPANY: COM-ED LOMBARD

USER NAME = zwallsten

PLOT DATE = 3/13/2015

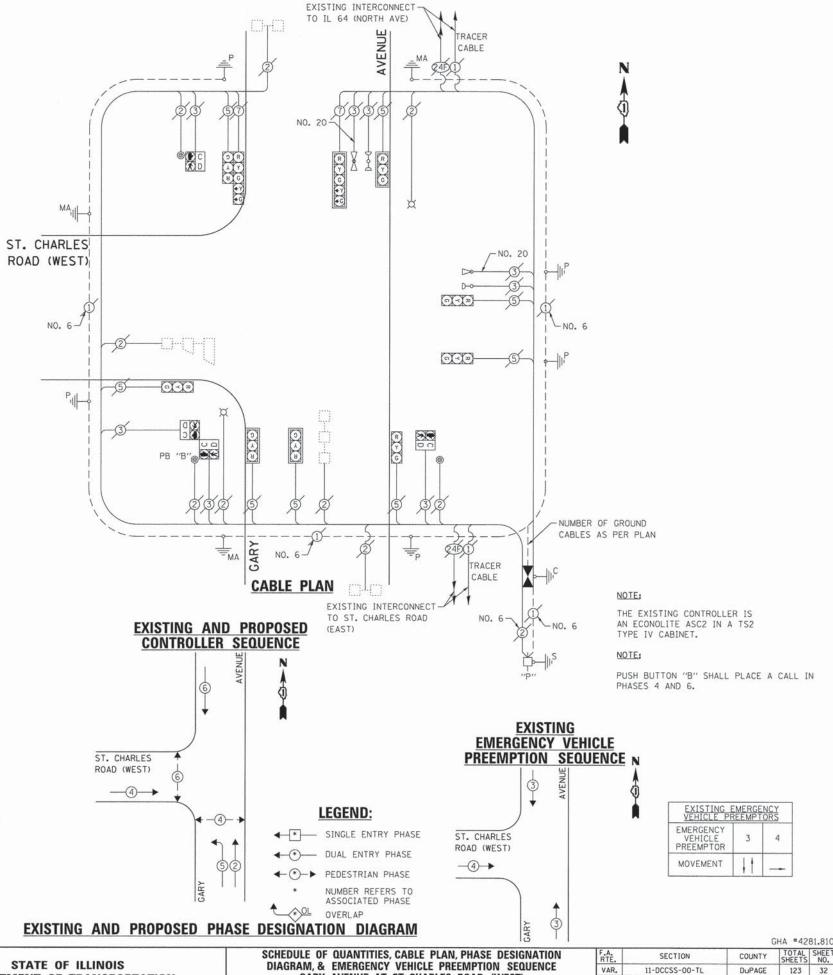
PLOT SCALE = 1:20

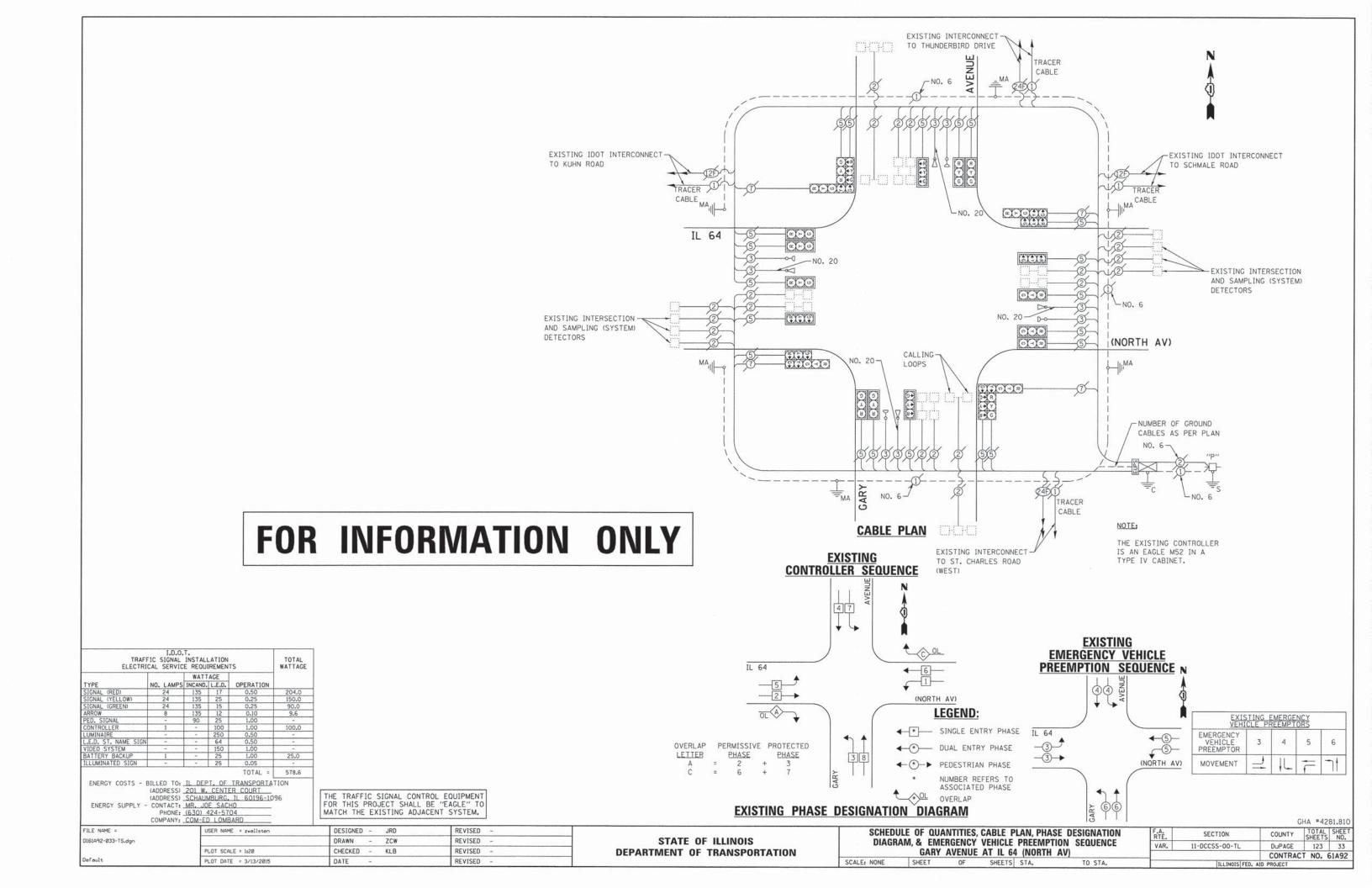
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE"
TO MATCH THE EXISTING ADJACENT SYSTEM.

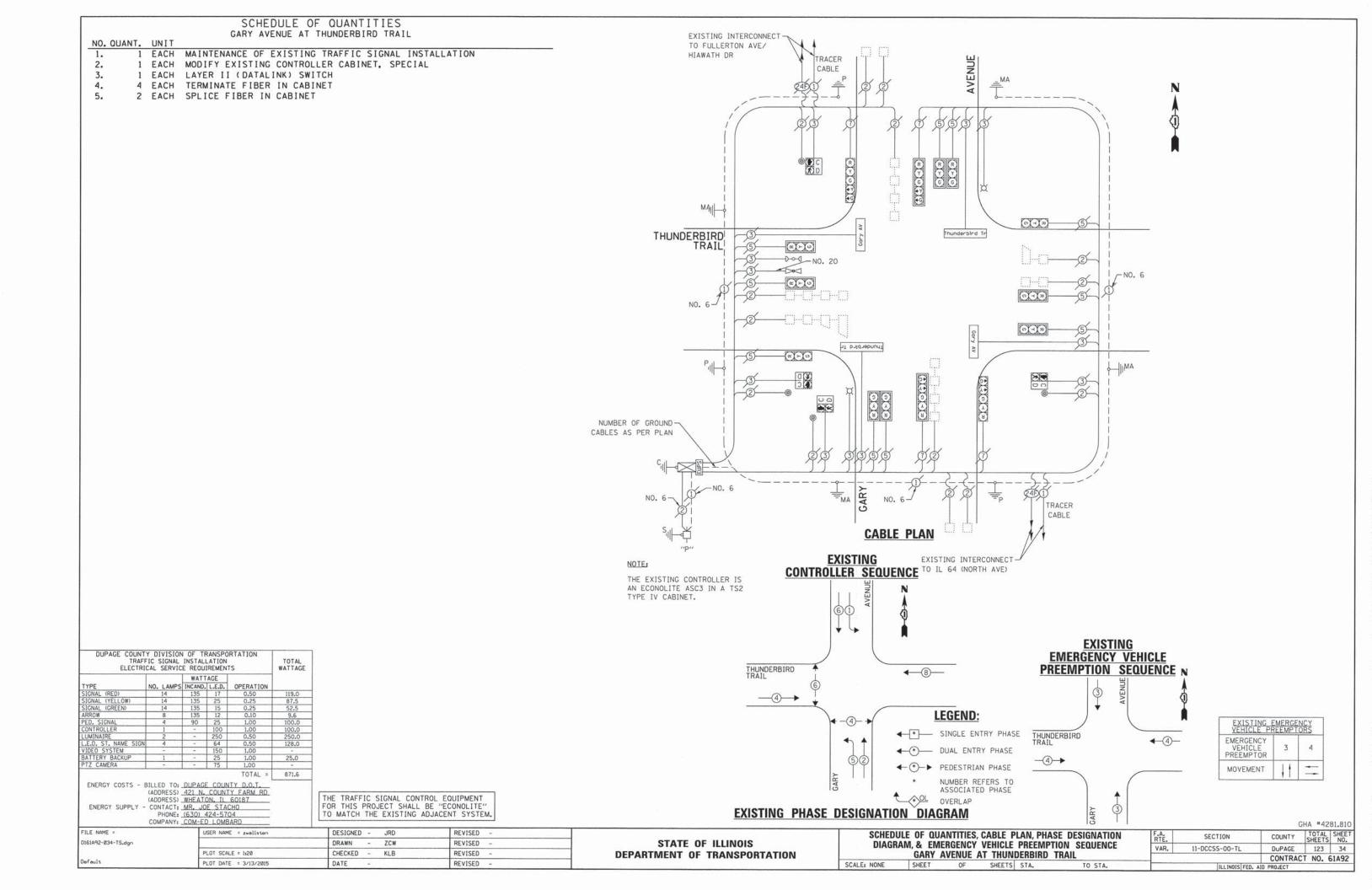
DESIGNED - JRD REVISED -DRAWN REVISED ZCW CHECKED KLB REVISED DATE REVISED

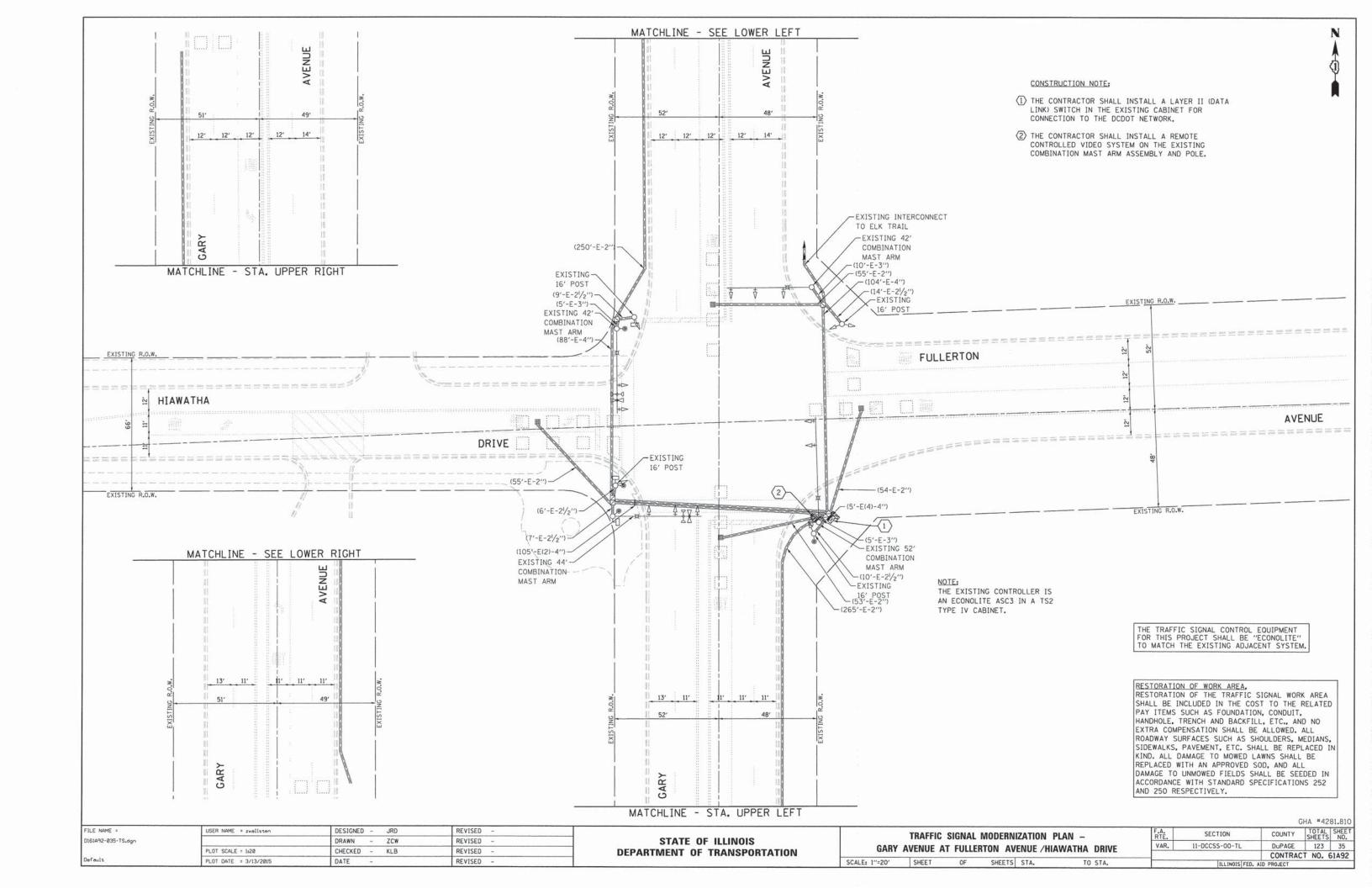
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE GARY AVENUE AT ST. CHARLES ROAD (WEST) SHEET SHEETS STA. OF

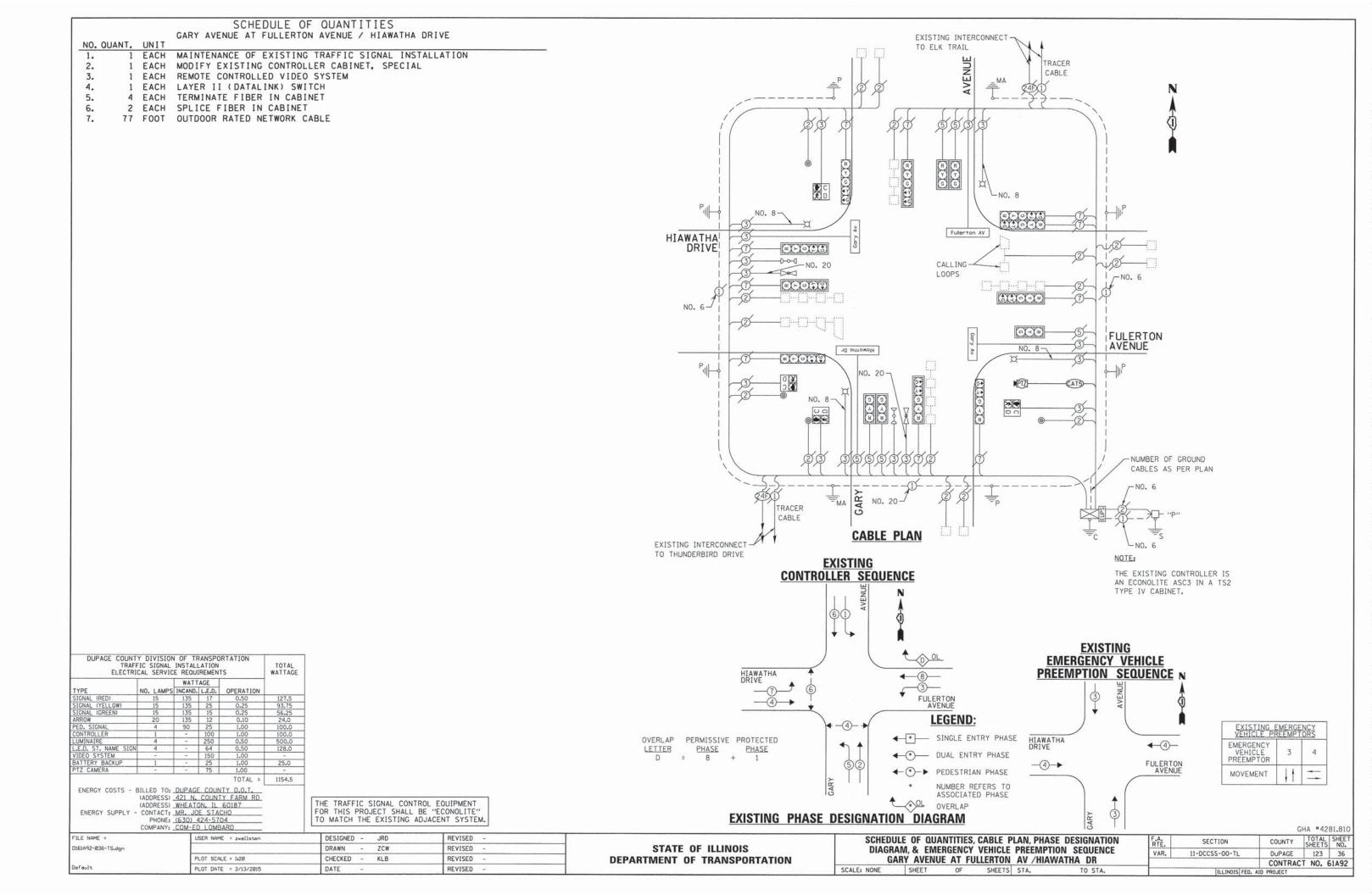
SECTION COUNTY 11-DCCSS-00-TL DuPAGE 123 32 CONTRACT NO. 61A92

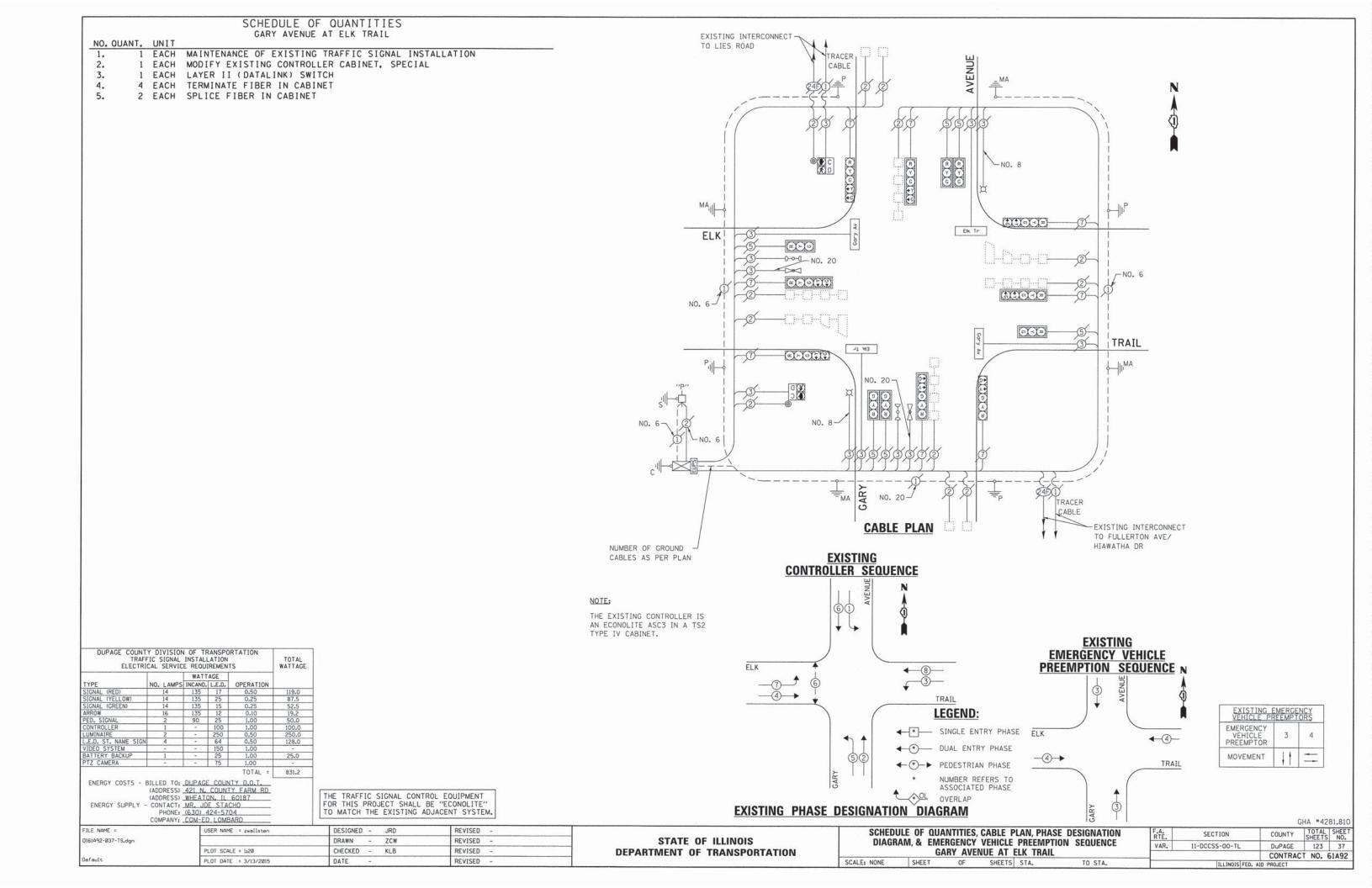


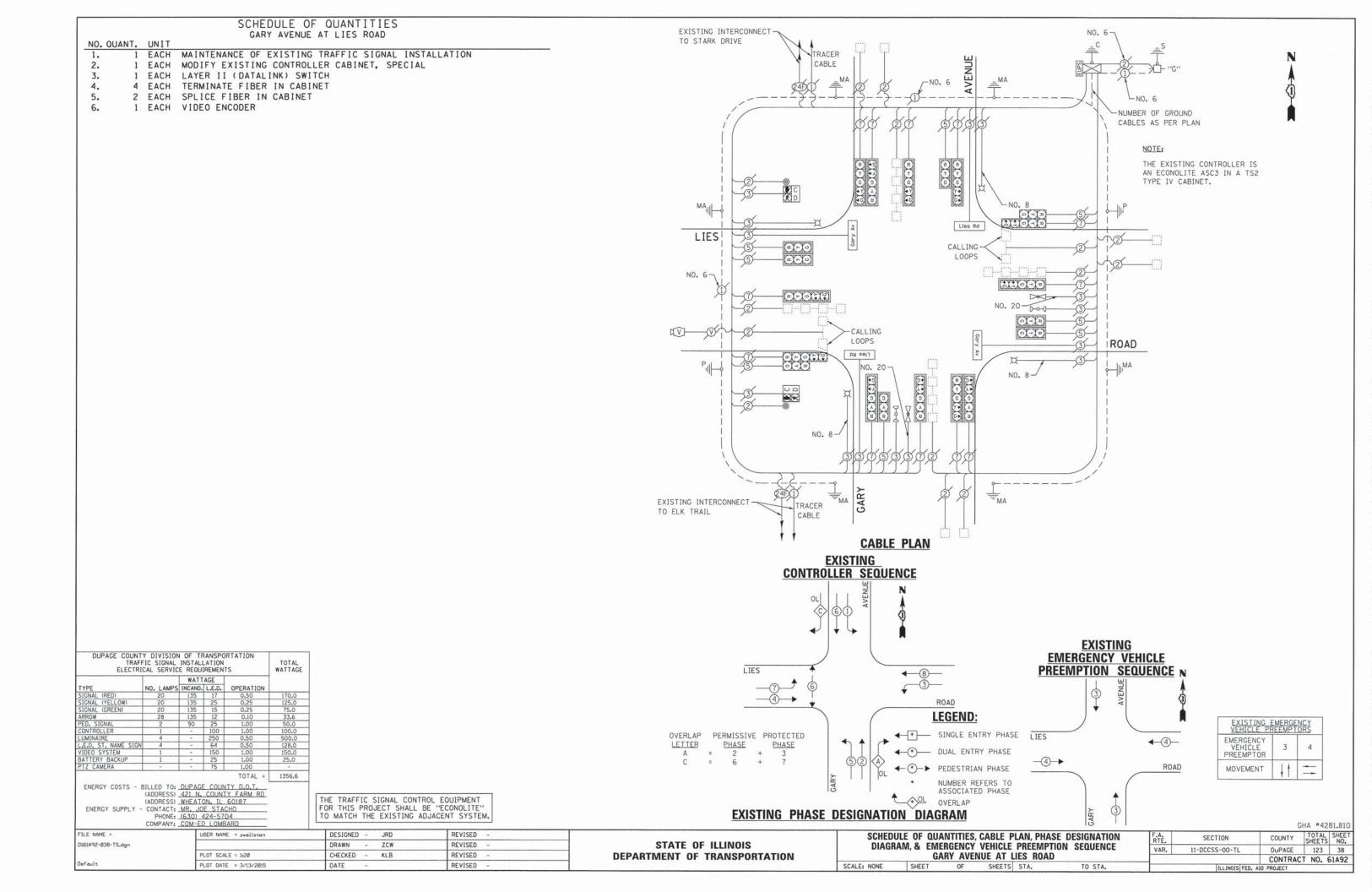


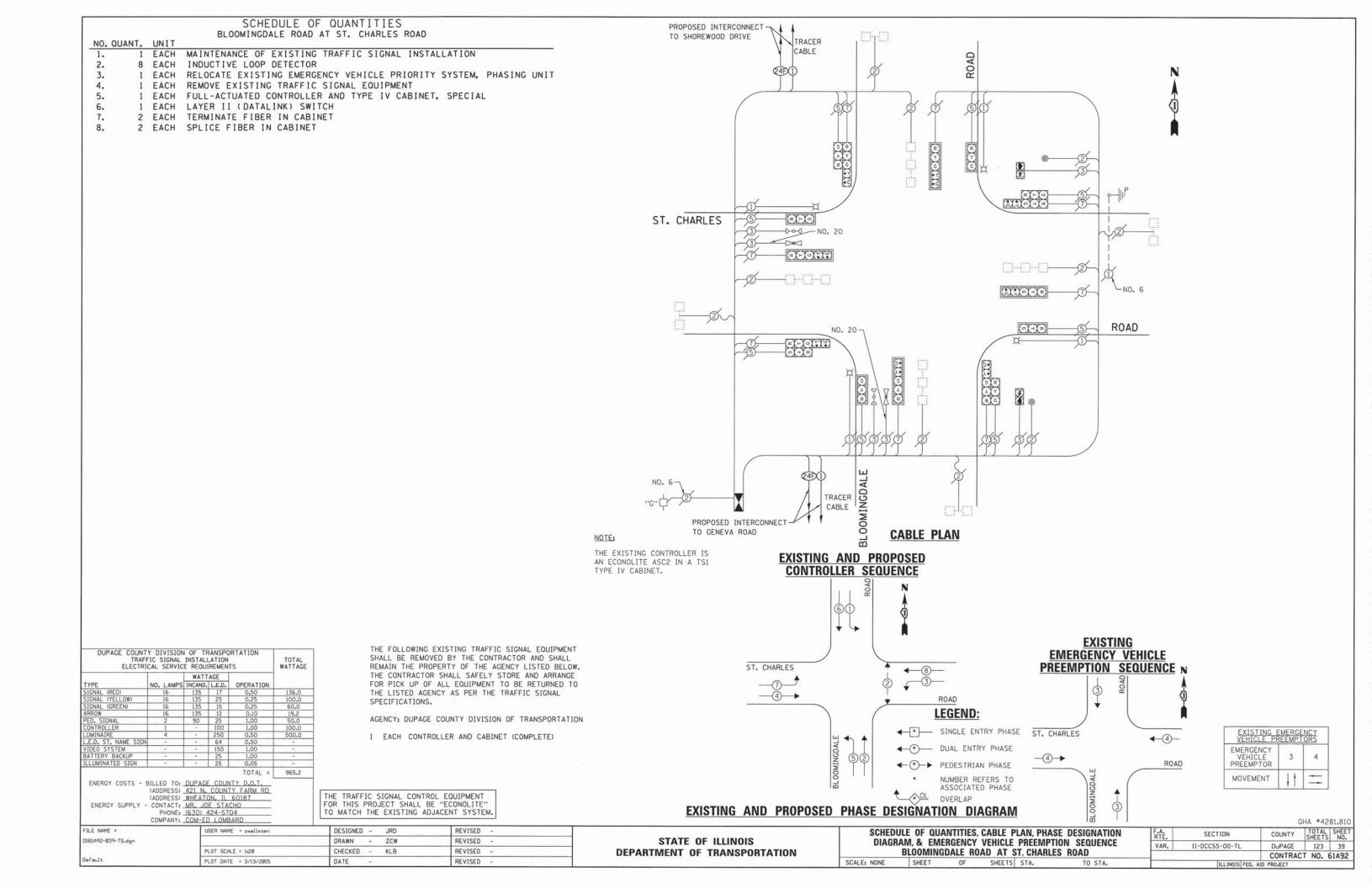


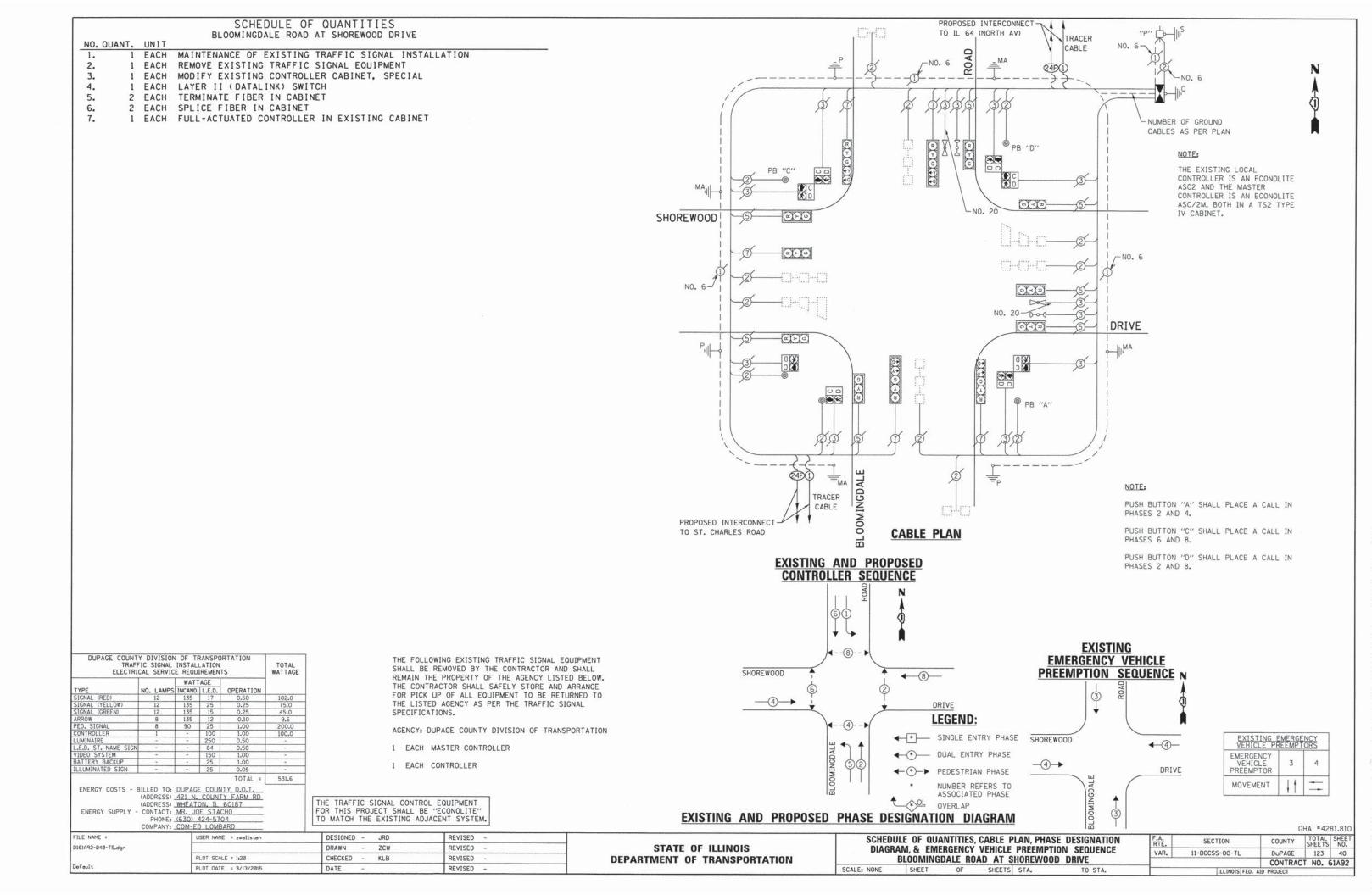


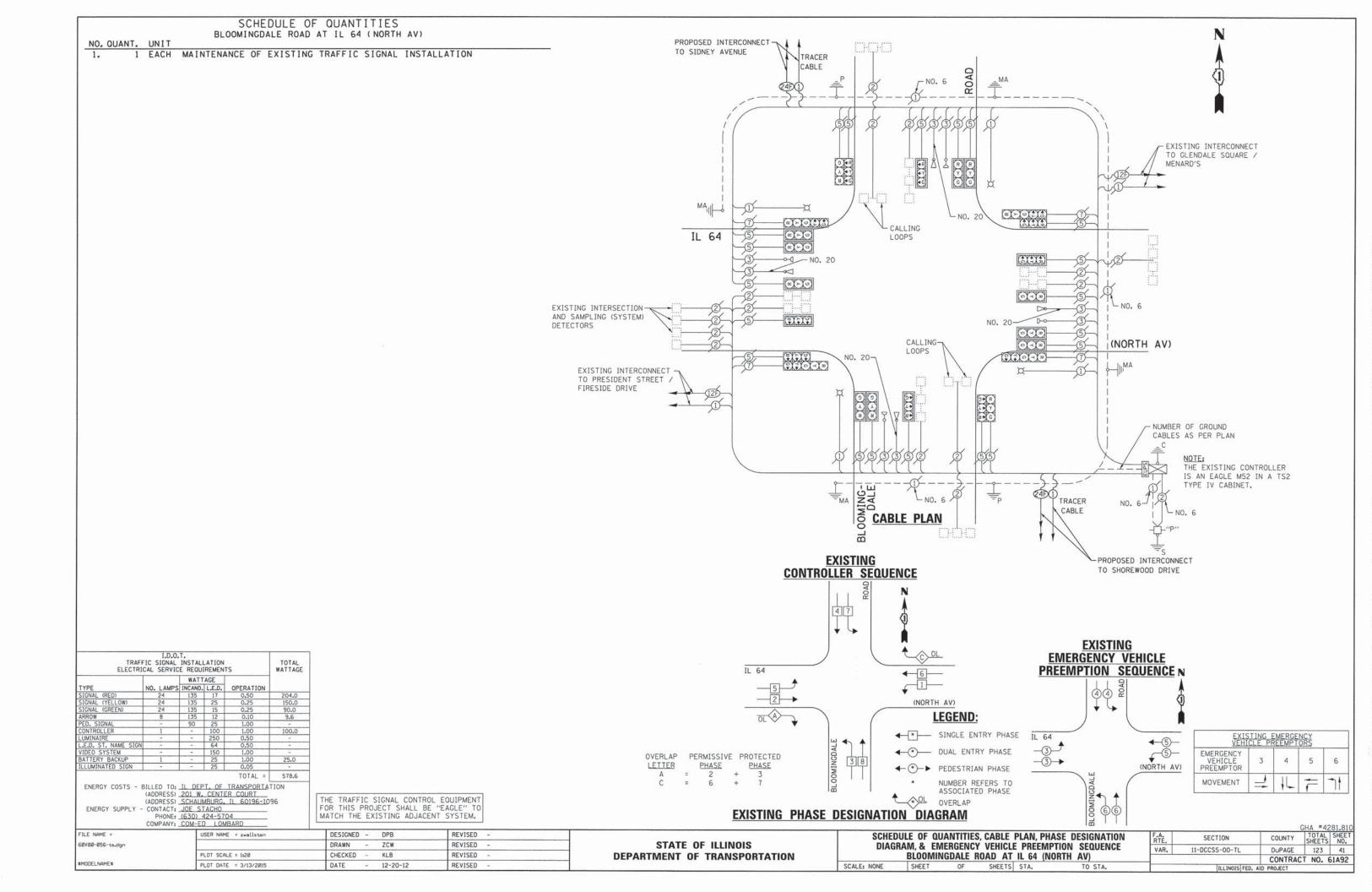


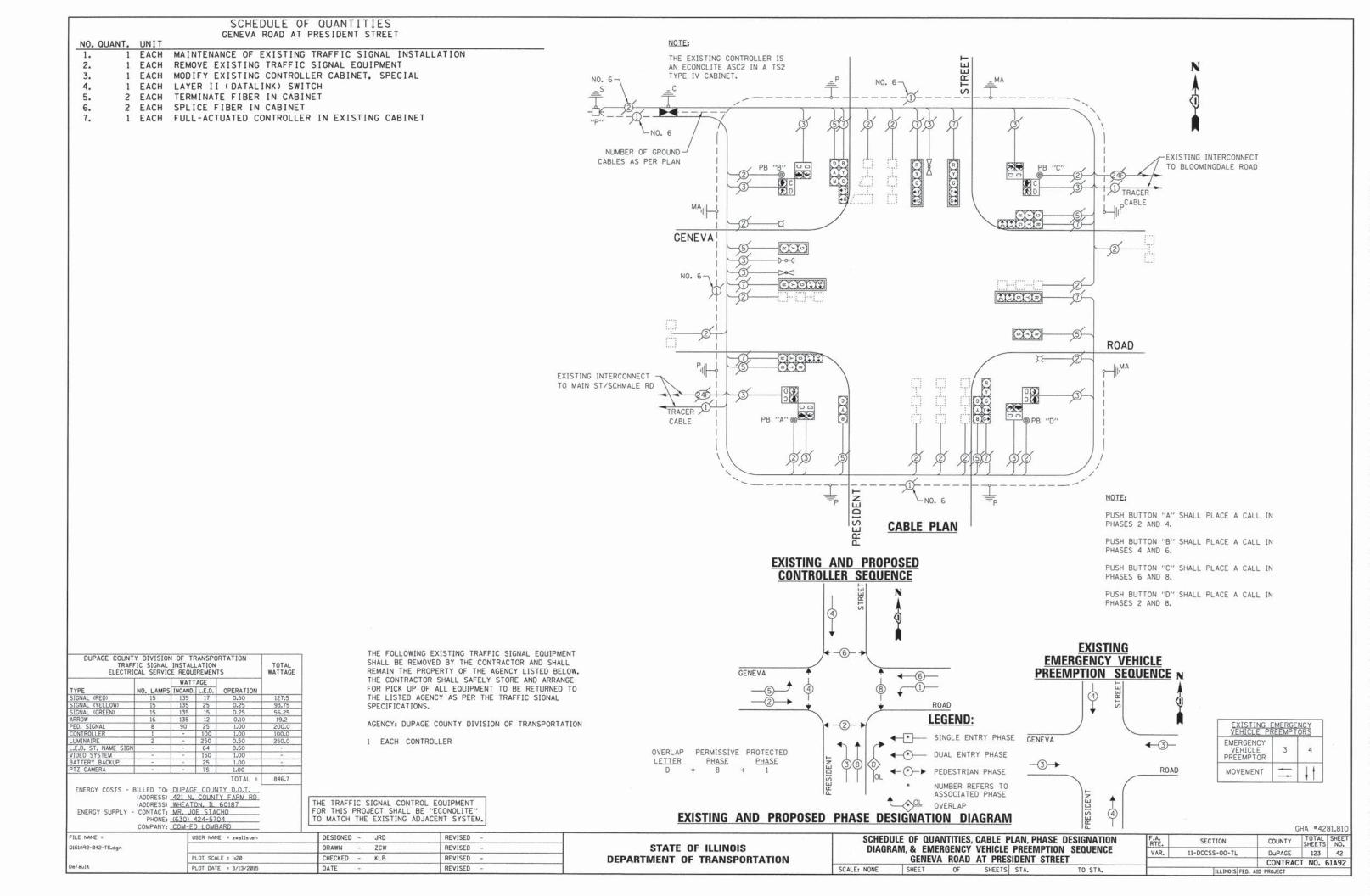


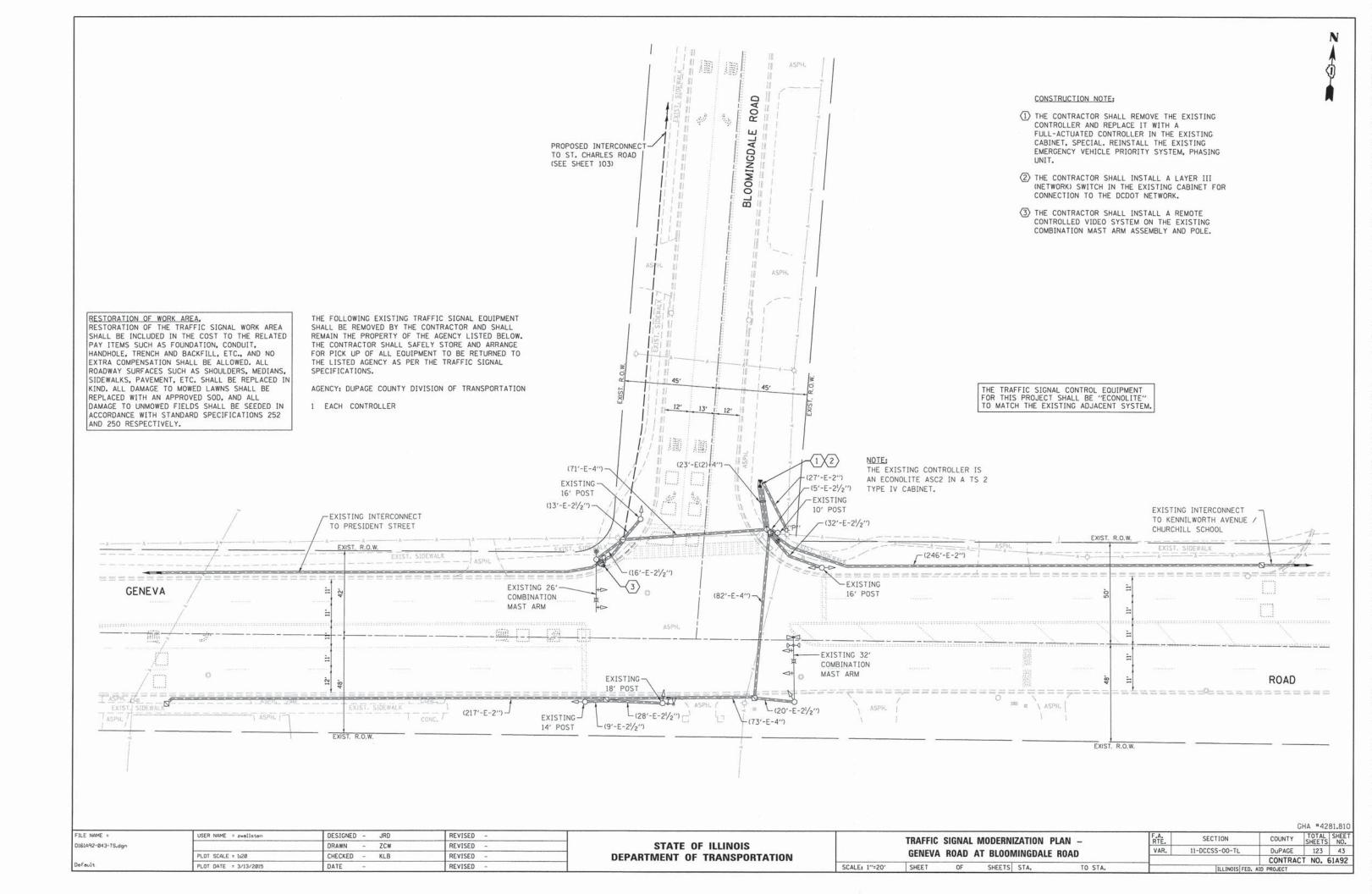


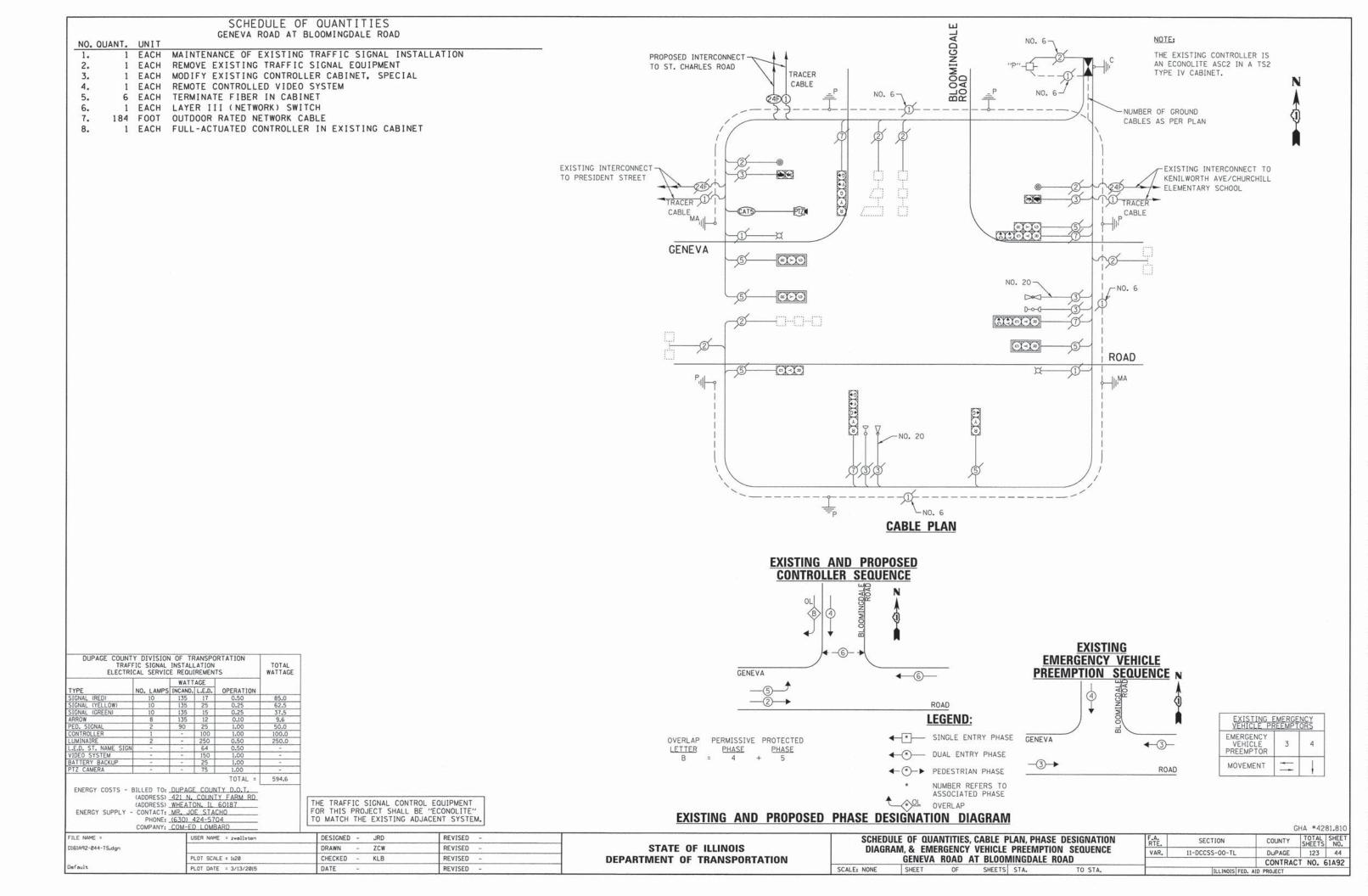


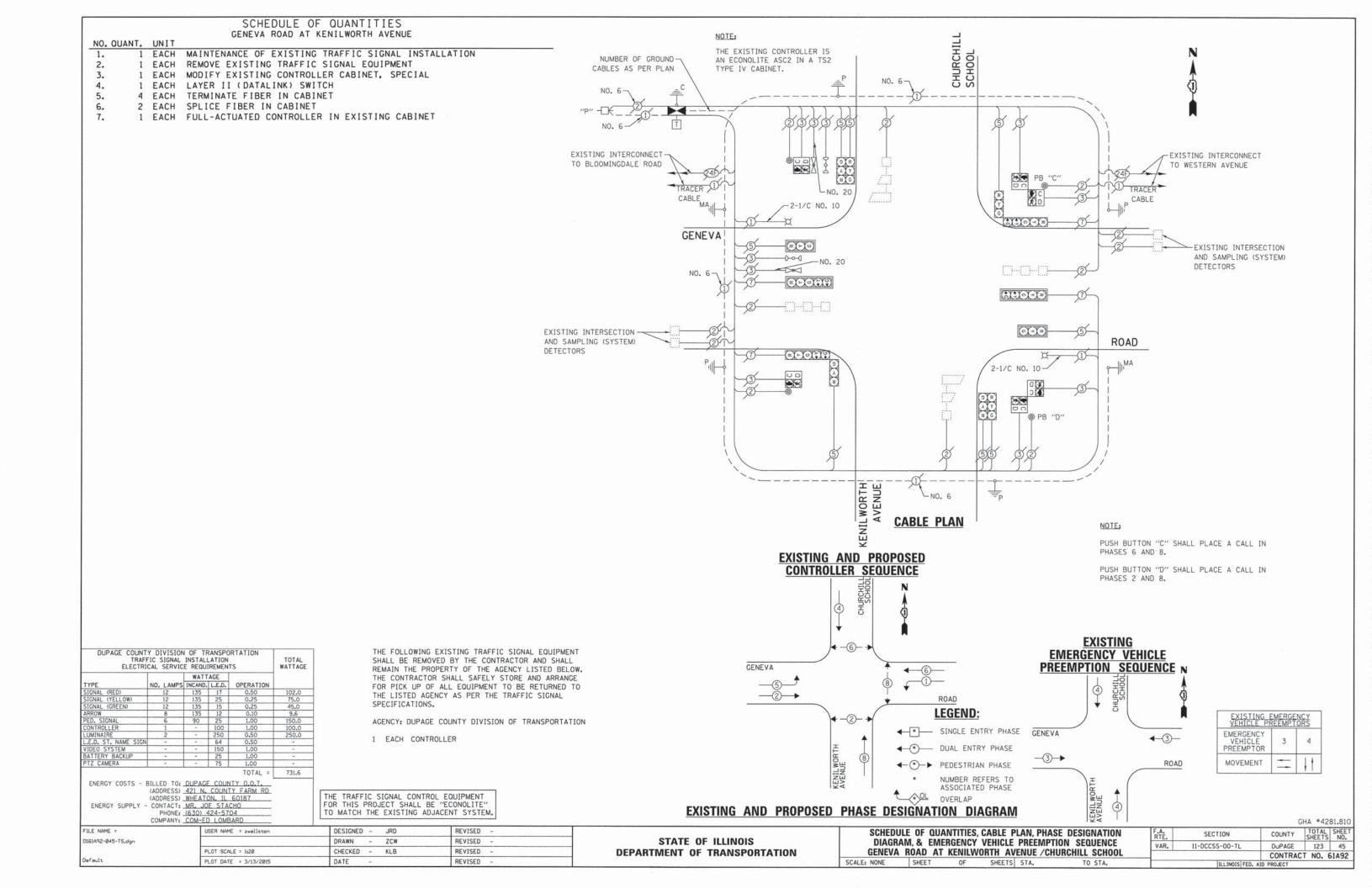


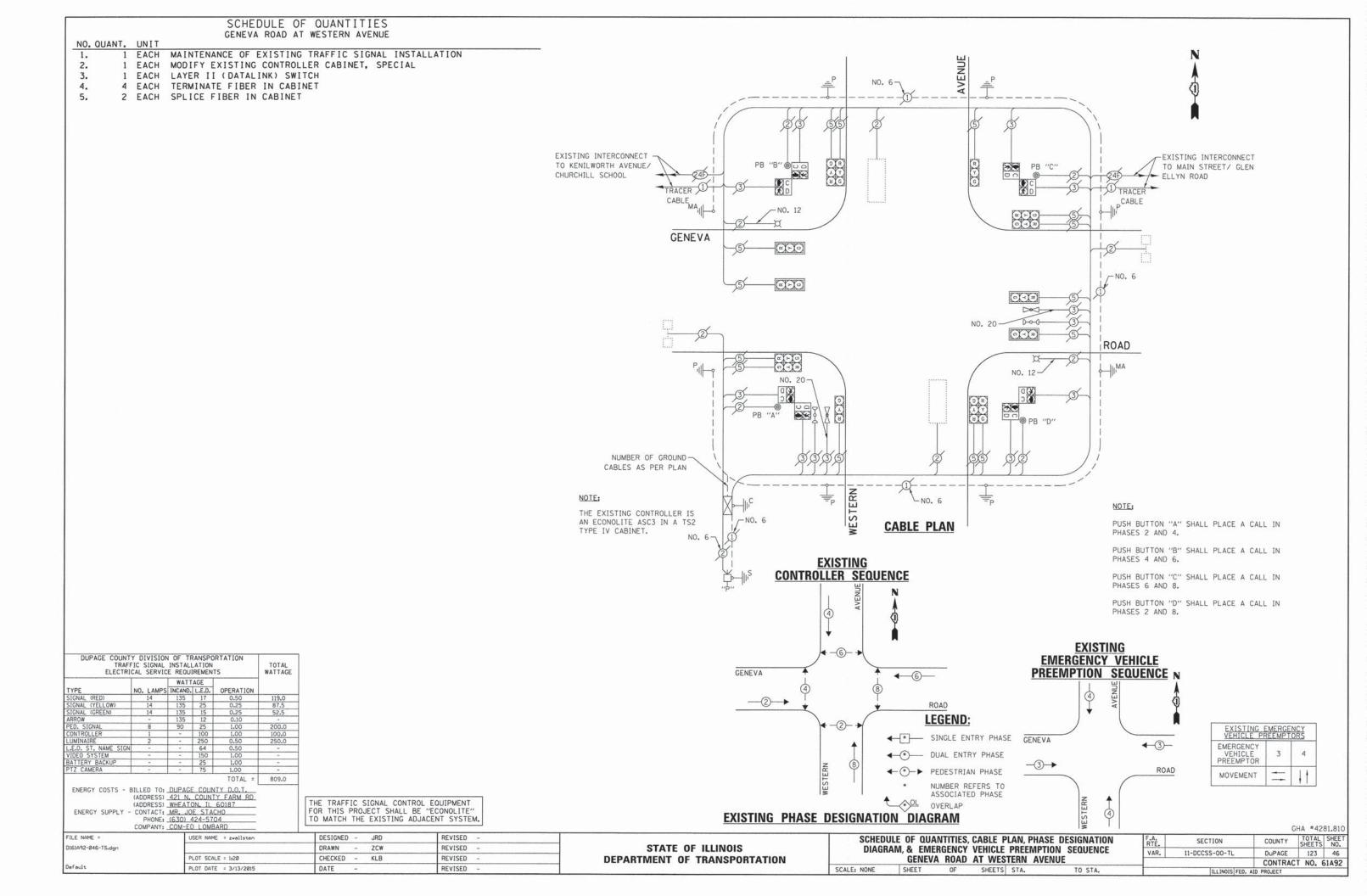


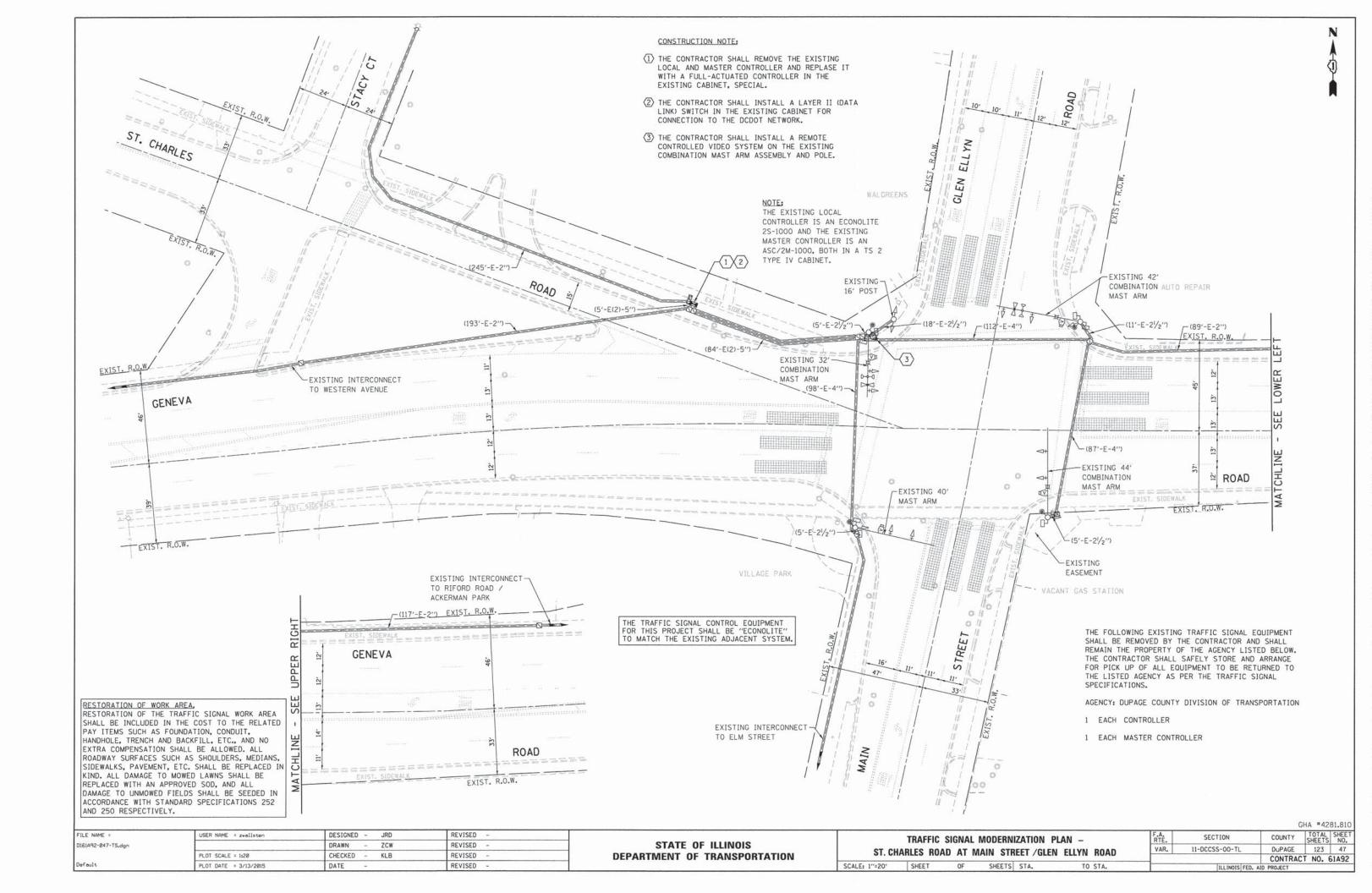


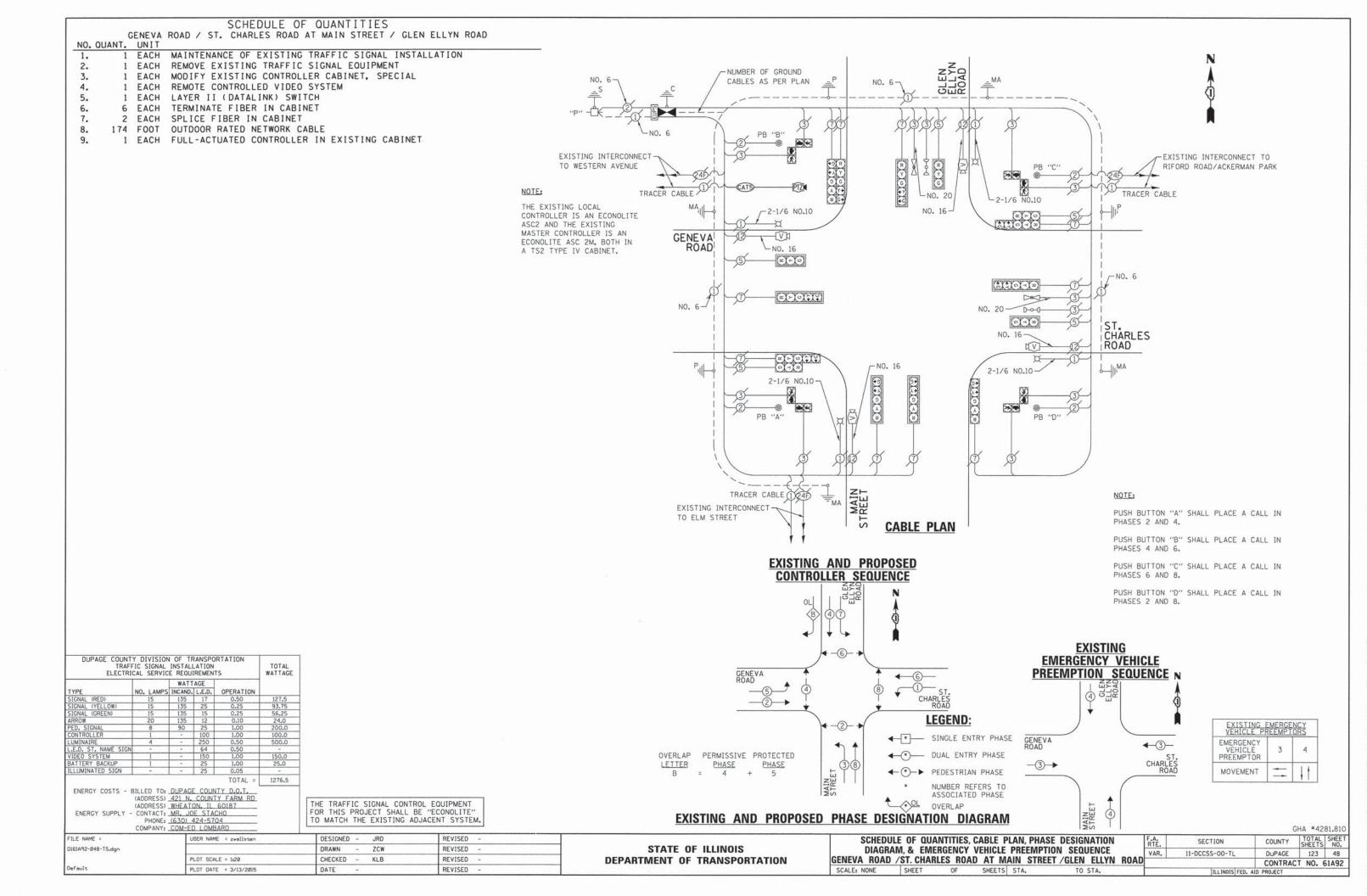


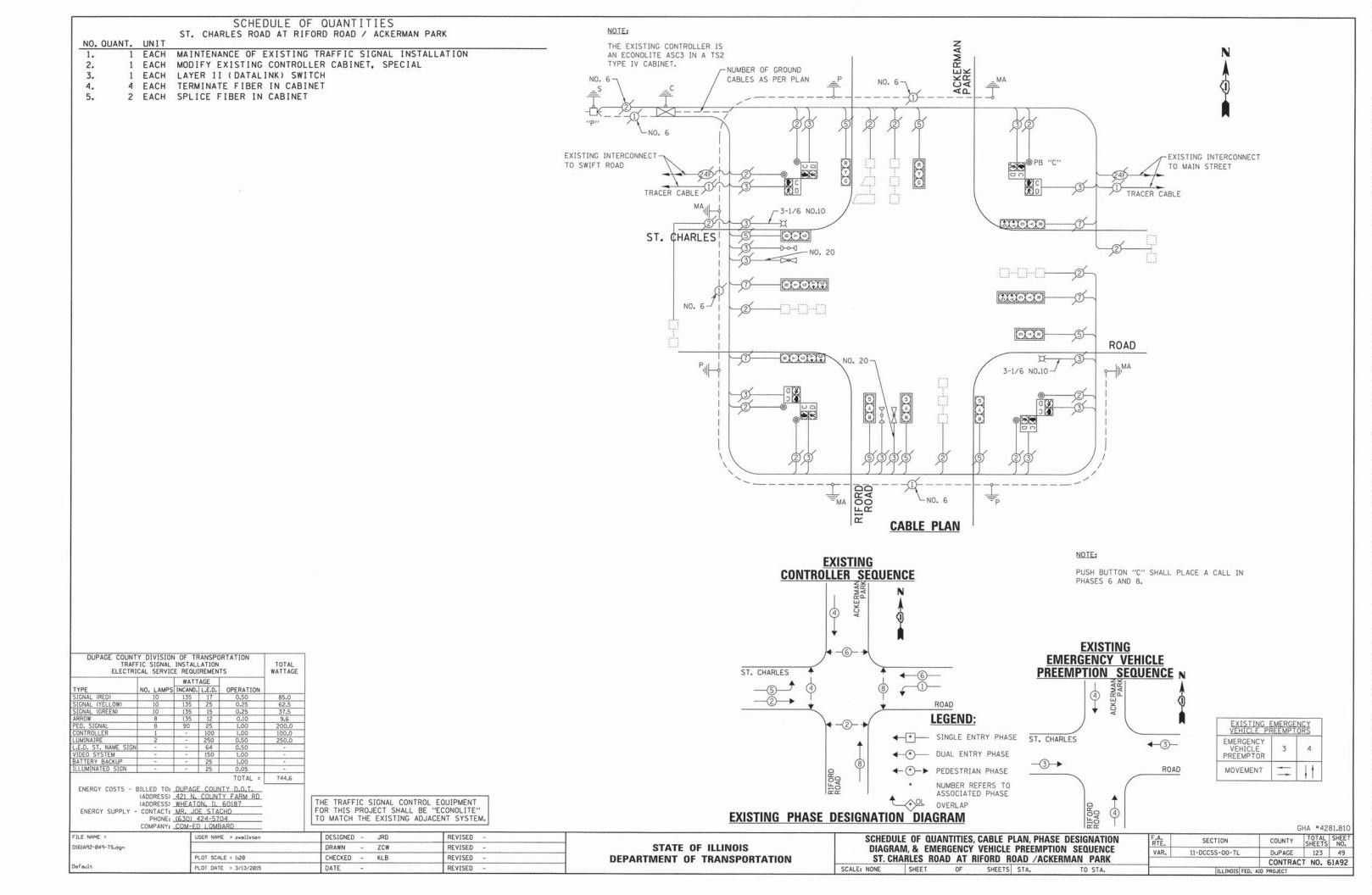


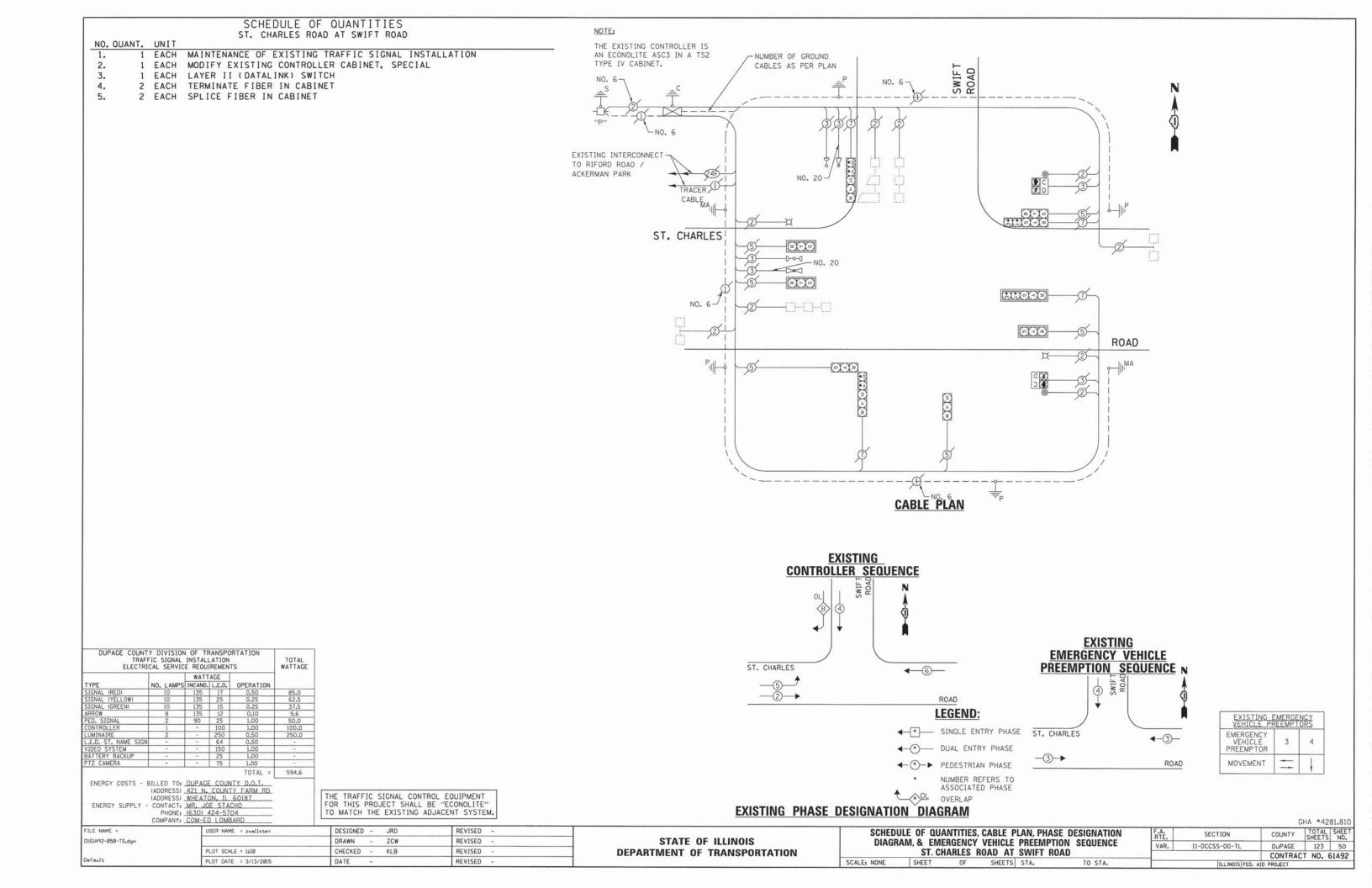


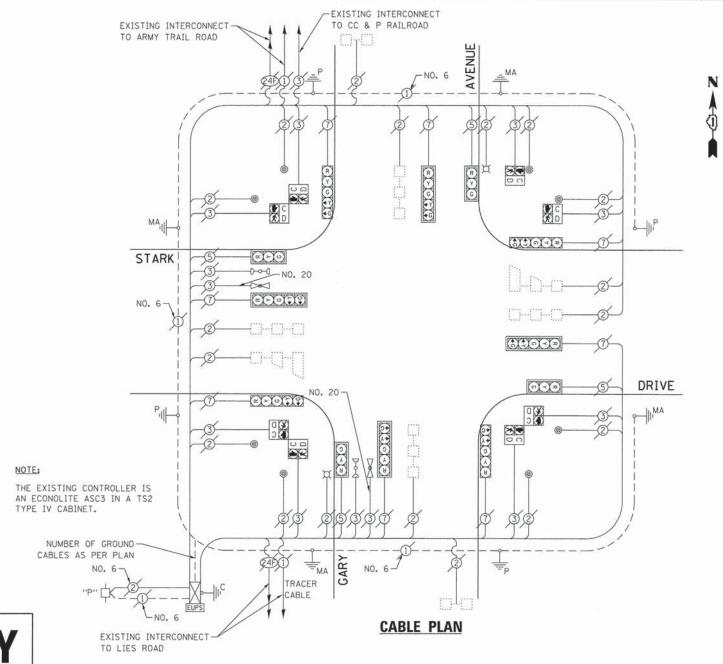












### FOR INFORMATION ONLY

	Y DIVISION TIC SIGNAL CAL SERVIC	INSTALL	ATION		TOTAL
		WATT	AGE		
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	2		250	0.50	250.0
L.E.D. ST. NAME SIGN	/ - /	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN		-	25	0.05	-
				TOTAL =	816.2

ENERGY COSTS - BILLED TO: DUPAGE COUNTY D.O.T.

(ADDRESS) 421 N. COUNTY FARM RD

(ADDRESS) WHEATON, IL 60187

ENERGY SUPPLY - CONTACT: MR. JOE STACHO

PHONE: (630) 424-5704

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

FILE NAME = DESIGNED - JRD REVISED -USER NAME = zwellsten D161A92-051-TS.dgn DRAWN REVISED PLOT SCALE = 1:20 CHECKED - KLB REVISED PLOT DATE = 3/13/2015 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  SCHEDULE OF QUANTITIES, & CABLE PLAN GARY AVENUE AT STARK DRIVE SHEETS STA.

GHA #4281.810 COUNTY TOTAL SHEET NO.

DuPAGE 123 51 SECTION 11-DCCSS-00-TL CONTRACT NO. 61A92

F.A. RTE. VAR.

#### SEQUENCE OF OPERATIONS

MOVEMENT N		<u></u>	<u> </u>			=			=				-			-	L			-	11,				,	۱۱.	_			, ,	† ,		F
PHASE		1.	+5			1+6			2+5	è		2-	+6			3-	+7				3+8					4+7				4-	+8		L
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16	17	18	19	20A	20B	21	22	23	24A	24B	25	26	27	28A	28B	A
CHANGE TO		1+6	2+5	2+6	#/	#/	2+6	#/	#/	2+6			3- 3- 4-	+8 +7	/	1+5 1+6 2+5 2+6 4+8	3+8	4+7	#/	#/	1+ 1+ 2+ 2+	6 -5	4+8	#/	#/	1+ 1+ 2+ 2+	-5	4+8	/		14	+5 +6 +5 +6	Н
GARY AVENUE NB END MAST ARM AND FAR LEFT SIGNALS	R <b>∢</b> G	R <b>∢</b> Y	R <b>∢</b> G	R <b>∢</b> Y	R	R	R	G <b>∢</b> G	G <b>∢</b> G	G <b>∢</b> Y	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
GARY AVENUE NB RIGHT SIGNAL	R	R	R	R	R	R	R	G	G	G	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
GARY AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R <b>∢</b> G	R <b>∢</b> G	R <b>∢</b> Y	R <b>∢</b> Y	G <b>∢</b> G	G <b>∢</b> G	G <b>∢</b> Y	R	R	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
GARY AVENUE SB RIGHT SIGNAL	R	R	R	R	G	G	G	R	R	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
STARK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R <b>∢</b> G	R <b>∢</b> Y	R <b>∢</b> Y	R <b>∢</b> G	R	R	R	R	R	G <b>∢</b> G	G <b>∢</b> G	Υ	R	G <b>∢</b> Y	G	G	Υ	R	R
STARK ROAD EB RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	G	G	G	Υ	R	R
PRIVATE ENTRANCE WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R <b>∢</b> G	R <b>∢</b> Y	R <b>∢</b> G	R <b>∢</b> Y	G <b>∢</b> G	G <b>∢</b> G	Υ	R	G <b>∢</b> Y	R	R	R	R	R	G	G	Υ	R	R
PRIVATE ENTRANCE WB RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	G	R	R	R	R	R	G	G	Υ	R	R
PEDESTRIAN SIGNAL CROSSING STARK DR ON WEST SIDE OF GARY AVE	DW	DW	DW	DW	*W	**FL DW	DW	DW	DW	DW	*W	**FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	
PEDESTRIAN SIGNAL CROSSING PRIVATE ENT ON EAST SIDE OF GARY AVE	DW	*W	*FL DW	DW	*W	**FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	D A						
PEDESTRIAN SIGNAL CROSSING GARY AVE ON NORTH SIDE OF STARK DR	DW	DW	DW	DW	DW	DW	DW	DW	DW	*W	**FL DW	DW	DW	DW	DW	DW	DW	DW	DW	*W	**FL DW	DW	DW	R K									
PEDESTRIAN SIGNAL CROSSING GARY AVE ON SOUTH SIDE OF STARK DR	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	*W	**FL DW	DW	DW	DW	*W	**FL DW	DW	DW										

### FOR INFORMATION ONLY

EMERGENCY VEHICLE SEQUENCE OF OPERATIONS

																													-	_	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		5		8	3		8		11		1.1		14		18		1	8		22		2	2		26		26			CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	18	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	2	3	NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OF	1C	2	1E	1F	3	1H	2	1K	1L	3	2	1P	1Q	3	2 OR 3	1T	1U	2	1W	3	1Y	1Z	2	1BB	3	1DD	1EE	2	3			$\Diamond$
GARY AVENUE NB END MAST ARM AND FAR LEFT SIGNALS	R ∢Y	R	R	R	R	R	G <b>∢</b> G	G <b>∢</b> Y	G <b>∢</b> G	Υ	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	$\Diamond$
GARY AVENUE NB RIGHT SIGNAL	R	R	R	R	R	R	G	G	G	Υ	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	$\Diamond$
GARY AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R <b>∢</b> Y	G <b>∢</b> G	G <b>∢</b> Y	G <b>∢</b> G	Υ	R	R	R	R	R	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	$\Diamond$
GARY AVENUE SB RIGHT SIGNAL	R	G	G	G	Υ	R	R	R	R	R	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	$\Diamond$
STARK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R <b>∢</b> Y	R	R	R	R	R	G <b>∢</b> G	Υ	R	G <b>∢</b> G	G <b>∢</b> Y	G	Y	R	G	R	G	$\Diamond$
STARK ROAD EB RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	G	G	Y	R	G	R	G	$\Diamond$
PRIVATE ENTRANCE WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ∢Y	G <b>∢</b> G	Υ	R	G <b>∢</b> G	G <b>∢</b> Y	R	R	R	R	R	G	Υ	R	G	R	G	$\Diamond$
PRIVATE ENTRANCE WB RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	G	R	R	R	R	R	G	Υ	R	G	R	G	$\Diamond$
PEDESTRIAN SIGNAL CROSSING STARK DR ON WEST SIDE OF GARY AVE	DW	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	FL DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	$\Diamond$
PEDESTRIAN SIGNAL CROSSING PRIVATE ENT ON EAST SIDE OF GARY AVE	DW	DW	DW	DW	DW	DW	FL DW	DW	FL DW	DW	DW	FL DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	$\Diamond$
PEDESTRIAN SIGNAL CROSSING GARY AVE ON NORTH SIDE OF STARK DR	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	FL DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	FL DW	DW	DW	FL DW	DW	DW	$\Diamond$
PEDESTRIAN SIGNAL CROSSING GARY AVE ON SOUTH SIDE OF STARK DR	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW						FL DW	DW	DW	FL DW	DW	FL DW	DW	DW	FL DW	DW	DW	$\Diamond$

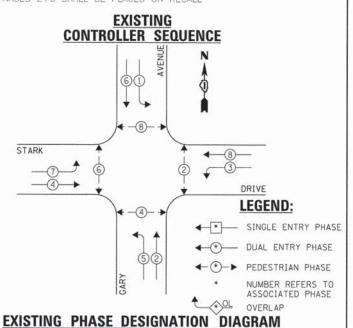
- \* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- \*\* FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE
- # THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH
  TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF
  THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK"
  OR FLASHING "DON'T WALK" INTERVALS.

W = "WALK"

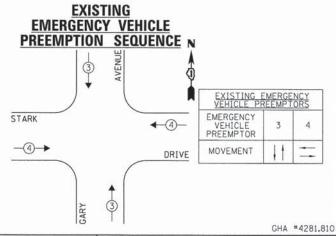
FL = FLASHING "DON'T WALK"

DW = "DON'T WALK"

PHASES 2+6 SHALL BE PLACED ON RECALL



EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.



FILE NAME = D161A92-052-TS.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEQUENCE OF OPERATIONS, PHASE DESIGNATION
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GARY AVENUE AT STARK DRIVE

NONE SHEET OF SHEETS STA. TO STA.

DOES ADTOD DOSS ADTOD

F.A. SECTION COUNTY TOTAL SHEETS NO.

VAR. 11-DCCSS-00-TL DUPAGE 123 52

[ILLINOIS] FED. AID PROJECT

#### RAILROAD PREEMPTION SEQUENCE OF OPERATIONS

RAILROAD PREEMPT	ION :	SEQ	UEN	ICE	OF	OP	ERA	OITA	NS									PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		8	1	11	14	1	8		22	2	26				$\otimes \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$					
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER					XX										2	3	3					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1 C	1D	1E	1F	1G	1H	1J	1K	1L	1 M	1N	1P	1 Q	1R	15	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	1D	2	1F	2	2	1J	2	1L	2	1N	2	1Q	2	15	2	3	4	5		NORMAL SEQUENCE
GARY AVENUE NB END MAST ARM AND FAR LEFT SIGNALS	R <b>∢</b> Y	R	Y	R	Y	R	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	R	Δ
GARY AVENUE NB RIGHT SIGNAL	R	R	Υ	R	Υ	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ
GARY AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R <b>∢</b> G	G <b>∢</b> G	R	R	G	G	R	R	R	R	R	R	R	G	G	R	R	G <b>∢</b> G	Υ	R	R	Δ
GARY AVENUE SB RIGHT SIGNAL	R	G	R	R	G	G	R	R	R	R	R	R	R	G	G	R	R	G	Υ	R	R	Δ
STARK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R <b>∢</b> Y	R	R	Y	R	Υ	R	R	R	Υ	R	R	R	R	G	Δ
STARK ROAD EB RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	Υ	R	Υ	R	R	R	Y	R	R	R	R	G	Δ
PRIVATE ENTRANCE WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R <b>∢</b> Y	Υ	R	R	R	Υ	R	R	R	Υ	R	R	R	R	G	Δ
PRIVATE ENTRANCE WB RIGHT SIGNAL	R	R	R	R	R	R	R	Υ	R	R	R	Υ	R	R	R	Υ	R	R	R	R	G	Δ
PEDESTRIAN SIGNAL CROSSING STARK DR ON WEST SIDE OF GARY AVE	DW	FL DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
PEDESTRIAN SIGNAL CROSSING PRIVATE ENT ON EAST SIDE OF GARY AVE	DW	DW	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
PEDESTRIAN SIGNAL CROSSING GARY AVE ON NORTH SIDE OF STARK DR	DW	DW	DW	DW	DW	DW	DW	FL DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
PEDESTRIAN SIGNAL CROSSING GARY AVE ON SOUTH SIDE OF STARK DR	DW	DW	DW	DW	DW	DW	DW	DW	DW	FL	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ

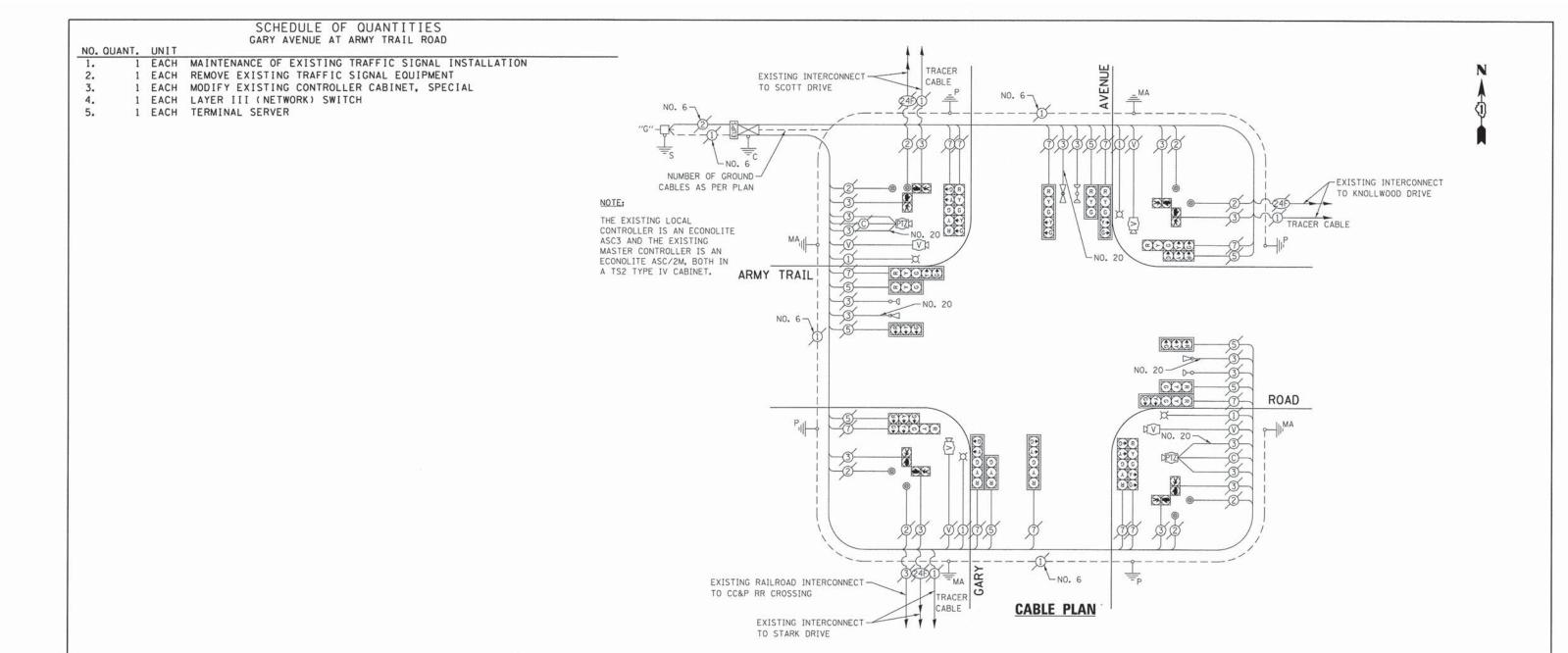
A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCEE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

## FOR INFORMATION ONLY

GHA #4281.810 COUNTY TOTAL SHEETS NO.

DUPAGE 123 53

CONTRACT NO. 61A92 FILE NAME = DESIGNED - JRD REVISED -USER NAME = zwallsten SECTION RAILROAD PREEMPTION SEQUENCE OF OPERATION 0161A92-053-TS.dgn ZCW REVISED STATE OF ILLINOIS VAR. GARY AVENUE AT STARK DRIVE 11-DCCSS-00-TL PLOT SCALE = 1:20 **DEPARTMENT OF TRANSPORTATION** CHECKED - KLB REVISED -PLOT DATE = 3/13/2015 DATE REVISED -SCALE: NONE SHEET OF SHEETS STA. TO STA.



	IC SIGNAL CAL SERVIC			rs	TOTAL WATTAGE
		WATT	AGE		
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0,25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	24	135	12	0.10	28.8
PED. SIGNAL	.8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	4	-	250	0.50	500.0
L.E.D. ST. NAME SIGN	-	-	64	0.50	
VIDEO SYSTEM	1	-	150	1.00	150.0
BATTERY BACKUP	1		25	1.00	25.0
ILLUMINATED SIGN		-	25	0.05	-
				TOTAL =	1373.8

ENERGY COSTS - BILLED TO: DUPAGE COUNTY D.O.T.

(ADDRESS) 421 N. COUNTY FARM RD

(ADDRESS) WHEATON, IL 60187

ENERGY SUPPLY - CONTACT: MR. JOE STACHO
PHONE: (630) 424-5704

COMPANY: COM-ED LOMBARD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH MASTER CONTROLLER

1 EACH LAYER II SWITCH

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

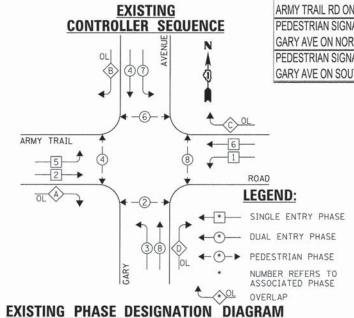
HEDUL	E OF QU	ANTITIES	& CABLE	PLAN	F.A. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
GARY	<b>AVENUE</b>	AT ARM	Y TRAIL R	DAD	VAR.	11-DCCSS-00-TL	DuPAGE	123	54
					errory Process		CONTRAC	T NO.	61A92
EET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

GHA #4281.810

D161692-954-TS dog		DRAWN - 7CW	DEVISED _	STATE OF ILLINOIS		SCHEDUL	E OF QU	<b>JANTITIES &amp; CAB</b>	LE PLAN	RTE.	SECTION	COUNTY	SHEETS	NO.	è
Diolariz 654 i Sagri		DRAWY - ZCW	REVISED -	에 가는 사람들이 다른 이름을 가는 사람이 되었다면 하면 하는데 그리고 있다면 하는데		GARY	<b>AVENUE</b>	AT ARMY TRAIL	ROAD	VAR.	11-DCCSS-00-TL	DuPAGE	123	54	
	PLOT SCALE = 1:20	CHECKED - KTR	KENIZED -	DEPARTMENT OF TRANSPORTATION						100		CONTRAC	CT NO.	61A97	F
Default	PLOT DATE = 3/13/2015	DATE -	REVISED -		SCALE: NONE	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT			_

### SEQUENCE OF OPERATIONS

MOVEMENT N			-	ر_ر ا	-				=	=			:	<i>,</i>			- mce		-	Ξ						7)	L			7	11;					IL!				, ,†			F
PHASE				1+5	5				1 +	F6			2+	5					2	+6						3-	F7				3+8				4	+7				4+	8		L
INTERVAL	1	2A	2В	ЗА	3В	4A	4B	5	6	7A	7B	8	9 1	0A 1	0B 1	1 1	2 13	6A 13	B 14	A 14	3 15A	15B	16A	16B	17	18	19	20	21	22	23A2	3B	24	25	26	27A	27B	28	29	30	31A	31B	A
CHANGE TO	/	1	+6	2	+5	2-	-6	#/	#/	2-	-6			2+1	6 /	1		1+6		2+5		+7 +7	1 - 3 - 4 -	+5 +8 +8	/	1+5 1+6 2+5 2+6 4+8	3+8	4+7	#/	#	1+5 1+6 2+5 2+6	6 5	4+8	#/	#/	1-	+5 +6 +5 +6	4+8	#	#	1+ 1+ 2+ 2+	-6 +5	Н
ARMY TRAIL ROAD WB NEAR AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R (	G (	G (	3 6	Y	R	Y G▶	R G▶	Υ	R	R G▶	R Y▶	R Y▶	R G▶	R	R	R	R	R	R G▶	R G▶	R Y▶	R	R Y▶	R	R	R	R	R
ARMY TRAIL ROAD WB MID MAST ARM SIGNAL	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R (	G (	G (	6 0	Y	R	Υ	R	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ARMY TRAIL ROAD WB END MAST ARM AND FAR LEFT SIGNALS	<b>4</b> G	<b>∢</b> G	<b>∢</b> G	∢Y	<b>∢</b> R	∢Y	<b>∢</b> R	<b>∢</b> G	<b>∢</b> G	<b>∢</b> Y	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R ◀	IR •	IR ◀	R ◀	R <b>∢</b> F	R <b>∢</b> F	R ∢R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R ·	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R
ARMY TRAIL ROAD EB NEAR AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G (	3 (	G Y	R	G	G	Y	R	Υ	R	R G▶	R Y▶	R G▶	R Y▶	R G▶	0.550	R Y▶	R	R Y▶	R	R	R	R	R	R	R	R	R	R
ARMY TRAIL ROAD EB MID MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G (	3 (	G Y	R	G	G	Y	R	Υ	R	R	R	R	R	R			R	R	R	R	R	R	R	R	R	R	R	R
ARMY TRAIL ROAD EB END MAST ARM AND FAR LEFT SIGNALS	<b>∢</b> G	■Y	<b>∢</b> R	<b>∢</b> G	<b>∢</b> G	∢Y	<b>∢</b> R	<b>∢</b> G	<b>∢</b> G	<b>4</b> Y ⋅	<b>∢</b> R <b>∢</b>	R ◀	IR ◀	R 4	R <b>∢</b> F	<b>₹</b>	R ∢R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R ·	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R				
GARY AVENUE NB NEAR AND FAR RIGHT SIGNALS	R G▶	- 2011	R G▶	R Y▶	R	R Y▶	R	R G▶	R G▶	R Y▶	R	R	R	R	R F	R F	R F	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	G	R	R	R	R	R	G	G	Υ	R	R
GARY AVENUE NB MID MAST ARM SIGNAL	R		R	R	R	R	R	R	R	R	R	R	R	R	R F	R F	R R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	G	R	R	R	R	R	G	G	Υ	R	R
GARY AVENUE NB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R F	₹ F	R R	R	R	R	R	R	R	R	R <b>∢</b> G	R <b>∢</b> Y	R <b>∢</b> G	R <b>∢</b> Y	G <b>∢</b> G	G <b>∢</b> G	Υ	R	G <b>∢</b> Y	R	R	R	R	R	G	G	Υ	R	R
GARY AVENUE SB NEAR AND FAR RIGHT SIGNALS	R G▶	2,555	R	R G▶	R G▶	R Y▶	R	R	R	R	R	R G▶	- A 977   mg	R ∕▶	R F	R F	R R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	G	G	Υ	R	G	G	G	Υ	R	R
GARY AVENUE SB MID MAST ARM SIGNAL	R		R	R	R	R	R	R	R	R	R	R			R F	R F	R R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	G	G	G	Υ	R	R
GARY AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R F	R F	R R	R	R	R	R	R	R	R	R <b>∢</b> G	R <b>∢</b> Y	R <b>∢</b> Y	R <b>∢</b> G	R	R	R	R	R	G <b>∢</b> G	G <b>∢</b> G	Υ	R	G <b>∢</b> Y	G	G	Υ	R	R
PEDESTRIAN SIGNAL CROSSING ARMY TRAIL RD ON EAST SIDE OF GARY AVE	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW C	) WC	DW D	W DI	W DV	V DV	V DW	/ DW	DW	DW	DW	DW		DW				**FL DW	DW C	OW I				DW	DW	-	*W	**FL	DW	DW	
PEDESTRIAN SIGNAL CROSSING ARMY TRAIL RD ON WEST SIDE OF GARY AVE	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW C	W C	DW D	W DI	W DV	V DV	V DW	DW	DW	DW	DW	DW	DW	DW	DW	DW			DW C	ow I	DW	*W	**FL DW	DW	DW	DW	*W	**FL DW	DW	DW	D A
PEDESTRIAN SIGNAL CROSSING GARY AVE ON NORTH SIDE OF ARMY TRAIL RD	DW	DW	DW	DW	DW	DW	DW	*W	**FL DW	DW	DW	DW	DW [	W C	)* WC	V **F	FL DV	V DV	V DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW C	) W	DW		DW	DW	DW	DW	DW		DW	DW	R
PEDESTRIAN SIGNAL CROSSING GARY AVE ON SOUTH SIDE OF ARMY TRAIL RD	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	*W	**FL DW	) W	)* WC	**[	FL DV	V DV	V DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW I	D WC	)W	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	IX



## FOR INFORMATION ONLY

- \* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- \*\* FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE
- # THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH
  TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF
  THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK"
  OR FLASHING "DON'T WALK" INTERVALS.

W = "WALK"

FL = FLASHING "DON'T WALK"

)W

DW = "DON'T WALK"

PHASES 2+6 SHALL BE PLACED ON RECALL

									GHA #428	31.810
FILE NAME =	USER NAME = zwollsten	DESIGNED - JRD	REVISED -			F.A.	SECTION	COLINTY	TOTAL	SHEET
D161A92-055-TS-dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS	SEQUENCE OF OPERATIONS	RTE.	11 00000 00 71	0.00411	SHEETS	NO.
	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	GARY AVENUE AT ARMY TRAIL ROAD	VAR.	11-DCCSS-00-TL	DUPAGE	ACT NO. 61	55
Default	DI OT DATE - 2/12/2015	DATE	DEVICED		and the latest and th			CONTRA	CI NU. 6	IA9Z

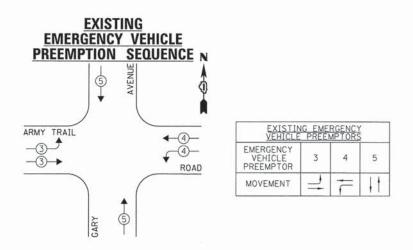
#### EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS

											-										-112-17								5-995			-		-7/-551						_	SOUTH THE		NUMBER	3 NUI	MBER 4	NUMBER 5	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		1		1			5		5		8		8		1	1		11			11		17			21		21		21		25	5		25		25		2	9	29		XX	XXX		CLEAR TO
EMERGENCY VEHICLE PREMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J -	1K 1I	L 1M	1N	10	1P	1Q	1R 1	S 17	T 1U	J 1V	1W	1X	1Y 1	Z 1Y	1Z	1AA	1BB 1	1CC 1	DD 1E	E 1FF	1GG	1HH 1	1JJ 1	KK 1L	L 1MN	1NN	1PP	1QQ	1RR	188 1	ITT 1	UU 1V	√ 1W	N 2		3	4	SEQUENCE SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	3	1F	4	1H	1J 2	OR 4	1L 3	1N	2	1P	1Q	3 OR 4	1S 1	IT 2	2 1V	1W	3	1Y	1Z 4	2	3	4	100	1DD	2 1FF	1GG	3	1JJ	4 1	ILL 1M	M 2	1PP	1QQ	3	188	4 1	UU 1	VV 20	OR 4					<b>\Q</b>
ARMY TRAIL ROAD WB NEAR AND FAR RIGHT SIGNALS	R	R	R	R	R	R	G	Υ	R	G G	R	R	R	R	R	G	YR	G	G	G	G	Y		R G▶	2.2	R	R	R R	R	R	R	R G	R R S▶ Y▶	R	R G▶	R G▶	R G▶	R G▶	R Y▶	R	R F	R	R		G	R	<b>\Q</b>
ARMY TRAIL ROAD WB MID MAST ARM SIGNAL	R	R	R	R	R	R	G	Υ	R	G G	R	R	R	R	R	G	Y R	G	G	G	G	Y	R	R	R	R	R	R R	R	R	R	R	R R	R	R	R	R	R	R	R	R F	R	R		G	R	$\Diamond$
ARMY TRAIL ROAD WB END MAST ARM AND FAR LEFT SIGNALS	<b>∢</b> Υ	<b>∢</b> R	<b>∢</b> G	<b>∢</b> G	∢Υ	<b>∢</b> R	<b>∢</b> G	<b>∢</b> Y .	<b>∢</b> R •	<b>4</b> G ◀	G <b>∢</b> R	R ◀R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R ◆	(R ◀	R <b>∢</b> F	R ∢R	<b>∢</b> R	∢R	<b>∢</b> R ◀	R <b>∢</b> R	R ◀R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R •	¶R ◀F	R ∢R	dR	<b>∢</b> R •	<b>∢</b> R <b>∢</b>	∢R ∢F	R <b>∢</b> R	R ◀R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R ·	<b>∢</b> R •	R ◀	R <b>∢</b> F	₹	1	<b>∢</b> G	∢R	$\Diamond$
ARMY TRAIL ROAD EB NEAR AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R R	G	G	G	Υ	R	G	G G	G	Y	R	G	Y	R G▶	R Y▶	R Y▶	R G▶ (	37.00	R R ▶ G▶	111 (20)	R	R G► Y	R Y▶	R R	R	R	R	R	R	R	R	R F	R	G		R	R	$\Diamond$
ARMY TRAIL ROAD EB MID MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R R	G	G	G	Υ	R	G	G G	G	Υ	R	G	Y F	R	R	R	R	R	R R	R	R	R	R	R R	R	R	R	R	R	R	R	R F	R	G		R	R	$\Diamond$
ARMY TRAIL ROAD EB END MAST ARM AND FAR LEFT SIGNALS	<b>∢</b> G	<b>∢</b> G	∢Υ	<b>∢</b> R	∢Y	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R •	<b>∢</b> R ◀	R <b>∢</b> G	dG	<b>∢</b> G	<b>∢</b> Υ	<b>∢</b> R	<b>∢</b> R ◀	R ◀	R <b>∢</b> F	R ∢R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R ◀	R <b>∢</b> R	R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R •	¢R ∢F	R ◀R	<b>∢</b> R	<b>∢</b> R •	<b>∢</b> R <b>∢</b>	<b>4</b> R <b>4</b> F	R	R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R •	<b>∢</b> R •	ıR ◀	R <b>∢</b> F	₹ 40	;	<b>∢</b> R	∢R	$\Diamond$
GARY AVENUE NB NEAR AND FAR RIGHT SIGNALS	R Y▶	R	R Y▶	R	- C10	R G▶	R G▶	R Y▶	R	R R S► Y		R	R	R	R	R	R R	R	R	R	R	R F	R	R	R	G	Υ	R G	Y	R	G	G	R R	R	R	R	R	R	R	G	Y F	G	R		R	G	$\Diamond$
GARY AVENUE NB MID MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R R	R	R	R	R	R	R	R R	R	R	R	R	R F	R	R	R	G	Υ	R G	Υ	R	G	G	R R	R	R	R	R	R	R	G	Y F	G	R		R	G	$\Diamond$
GARY AVENUE NB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R R	R	R	R	R	R	R	R R	R	R	R	R	R F	R ■Y	R ✓Y	99.50	G <b>∢</b> G	Υ	R G	Y	R	G <b>∢</b> G •	G <b>4</b> Y	R R	R	R	R	R	R	R	G	Y F	G	R		R	G	$\Diamond$
GARY AVENUE SB NEAR AND FAR RIGHT SIGNALS	R Y▶	R	R Y▶	R	R G▶	R G▶	R	R	R	R R	R G▶		R G▶	R ∢Y	R	R	R R	R	R	R	R	R F	R	R	R	R	R	R R	R	R	R	R (	G Y	R	G	Υ	R	G	G	G	Y R	G	R		R	G	$\Diamond$
GARY AVENUE SB MID MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R R	R	R	R	R	R	R	R R	R	R	R	R	R F	R	R	R	R	R	R R	R	R	R	R (	G Y	R	G	Υ	R	G	G	G	Y R	G	R		R	G	$\Diamond$
GARY AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R R	R	R	R	R	R	R	R R	R	R	R	R	R F	R <b>√</b> Y	R ✓Y	R ∢Y	R	R	R R	R	R	R	R	G Y	R	G <b>∢</b> G	Υ	R	G <b>∢</b> G	G	G	Y R	G	R		R	G	$\Diamond$
PEDESTRIAN SIGNAL CROSSING ARMY TRAIL RD ON EAST SIDE OF GARY AVE	DW	DW	DW	DW	DW	DW	DW	DW [	DW D	W DV	V DW	DW	DW	DW	DW [	D WC	W DV	V DW	/ DW	DW	DW [	W D	-		DW	FL DW	DW D	W FL	, DW	DW	FL DW C	D WC	DW DW	/ DW	-	DW	DW	DW [	ow r	FL D	W DV	v FL	DW		DW	DW	$\Diamond$
PEDESTRIAN SIGNAL CROSSING ARMY TRAIL RD ON WEST SIDE OF GARY AVE	DW	DW	DW	DW	DW	DW	DW	DW [	DW D	W DV	V DW	DW	DW	DW	DW [	D WC	W DV	v Dw	/ DW	DW	DW [	W D	W DW	DW	DW		DW D			DW				DW	FI		DW	FL DW	ow [	FL D	W DV	v FL DW	DW		DW	DW	$\Diamond$
PEDESTRIAN SIGNAL CROSSING GARY AVE ON NORTH SIDE OF ARMY TRAIL RD	DW	DW	DW	DW	DW	DW	FL DW	DW C	ow F	L DV	V DW	DW	DW	DW	DW [	FL D	W DV	v FL DW	DW	DW	FL DW	W D	w DW	DW	DW	DW [	DW D	W DW		DW			W DW	DW	12.11	DW	$\neg$	DW [	DW C	D WC	W DV	V DW		r	DW	DW	$\Diamond$
PEDESTRIAN SIGNAL CROSSING GARY AVE ON SOUTH SIDE OF ARMY TRAIL RD	DW	DW	DW	DW	DW	DW		week to	aver les	W DV	v FL DW	, DW	FL DW	DW		EI	W DV	EI	DW	DW	FL DW	W D	W DW	DW	DW	DW [	DW D	W DW	DW	DW	DW D	D WC	W DW	DW	DW	DW	DW	DW [	ow c	D WC	W DV	V DW	DW		DW	DW	$\Diamond$

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

PREEMPTOR PREEMPTOR

# FOR INFORMATION ONLY



FILE NAME =	USER NAME = zwallsten	DESIGNED - JRD	REVISED -		FILEDOCTION VISUALE PRESENTAL ARRANGE	F.A.	SECTION	COUNTY	TOTAL	SHEET
D161A92-056-TS.dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE	RTE.	11-DCCSS-00-TL	DuPAGE	SHEETS	NO.
	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	GARY AVENUE AT ARMY TRAIL ROAD	VAR.	11-00035-00-11	CONTRAC	CT NO	61403
Default	PLOT DATE = 3/13/2015	DATE -	REVISED -		SCALE: NONE SHEET OF SHEETS STA. TO STA.		ILL INOIS FED.	AID PROJECT	JI NO. E	01A32

### RAILROAD PREEMPTION SEQUENCE OF OPERATIONS

RAILROAD PREEMP								7.11.15	J140														PREEMPTOR NUMBER 2	3						
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		į.	5	1	3	1	1	17	2	21	2	25	2	9		XX	$\otimes$	XX	$\times\!\!\times$	XX		×						
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		$\otimes$	$\otimes$	$\otimes \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\otimes$	$\otimes\!$	$\otimes\!$	$\times\!\!\times$	$\ggg$	$\ggg$	$\otimes\!\!\!\otimes$	$\otimes\!\!\!\otimes$	$\otimes\!\!\otimes$	$\ggg$	$\otimes \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\times\!\!\times$	2	2		3	4			×						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1 C	1D	1E	1F	1 G	1H	1J	1K	1L	1 M	1N	1P	1 Q	1R	15	1T	1U	1V	1W	2	3	4	5	7	9	11	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1 D	2	1F	2	1H	2	2	1L	2	1 N	2	1 Q	2	15	2	1U	2	1 W	2	3	4	5	6	8	10		NORMAL SEQUENCE
ARMY TRAIL ROAD VINEAR AND FAR RIGHT SIGNALS	VΒ	R	R	Υ	R	R	R	Υ	R	R Y▶	R	R	R Y▶	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	R	G	Δ
ARMY TRAIL ROAD V MID MAST ARM SIGNAL	VΒ	R	R	Υ	R	R	R	Υ	R	R	R	R	R	R	R	R	R	R	Υ	R	R	R	R	R	Υ	R	R	R	G	Δ
ARMY TRAIL ROAD VERD MAST ARM AND FAR LEFT SIGNALS	VB	<b>∢</b> Υ	<b>∢</b> R	<b>∢</b> Υ	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> Υ	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	Δ
ARMY TRAIL ROAD NEAR AND FAR RIGHT SIGNALS	EB	R	R	R	R	Υ	R	Υ	R	R Y▶	R Y▶	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	G	G	G	G	Δ
ARMY TRAIL ROAD MID MAST ARM SIGNAL	EB	R	R	R	R	Υ	R	Υ	R	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	G	G	G	G	Δ
ARMY TRAIL ROAD END MAST ARM AND FAR LEFT SIGNALS	EB	<b>∢</b> Υ	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	∢Y	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	Υ	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> R	∢R	<b>∢</b> R	<b>∢</b> R	<b>∢</b> G	∢Y	<b>∢</b> R	<b>∢</b> R	Δ
GARY AVENUE NEAR AND FAR RIGHT SIGNALS	1B	R G▶	R G▶	R G▶	R G▶	R	R	R	R	R	G	G	R	R	G	G	R	R	R	R	G	G	G	Υ	R	R	R	R	R	Δ
GARY AVENUE N MID MAST ARM SIGNAL	1B	R	R	R	R	R	R	R	R	R	G	G	R	R	G	G	R	R	R	R	G	G	G	Υ	R	R	R	R	R	Δ
GARY AVENUE END MAST ARM AND FAR LEFT SIGNALS	NB	R	R	R	R	R	R	R	R	R <b>∢</b> Y	G <b>∢</b> G	G <b>∢</b> G	R	R	G	G	R	R	R	R	G	G	G <b>∢</b> G	Υ	R	R	R	R	R	Δ
GARY AVENUE NEAR AND FAR RIGHT SIGNALS	SB	R Y▶	R	R	R	R Y▶	R	R	R	R	R	R	Υ	R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	Δ
GARY AVENUE S MID MAST ARM SIGNAL	SB	R	R	R	R	R	R	R	R	R	R	R	Υ	R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	Δ
END MAST ARM AND FAR LEFT SIGNALS	SB	R	R	R	R	R	R	R	R	R¥	R	R	Υ	R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	Δ
PEDESTRIAN SIGNAL CROSSING ARMY TRAIL RD ON EAST SIDE OF GARY AVE		DW	DW	DW	DW	DW	DW	DW	DW	DW	FL DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
PEDESTRIAN SIGNAL CROSSING ARMY TRAIL RD ON WEST SIDE OF GARY AVE		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
PEDESTRIAN SIGNAL CROSSING GARY AVE ON NORTH SIDE OF ARMY TRAIL RD		DW	DW	FL DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
PEDESTRIAN SIGNAL CROSSING GARY AVE ON SOUTH SIDE OF ARMY TRAIL RD		DW	DW	DW	DW	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
																							TRACK CLEAR						HOLD	

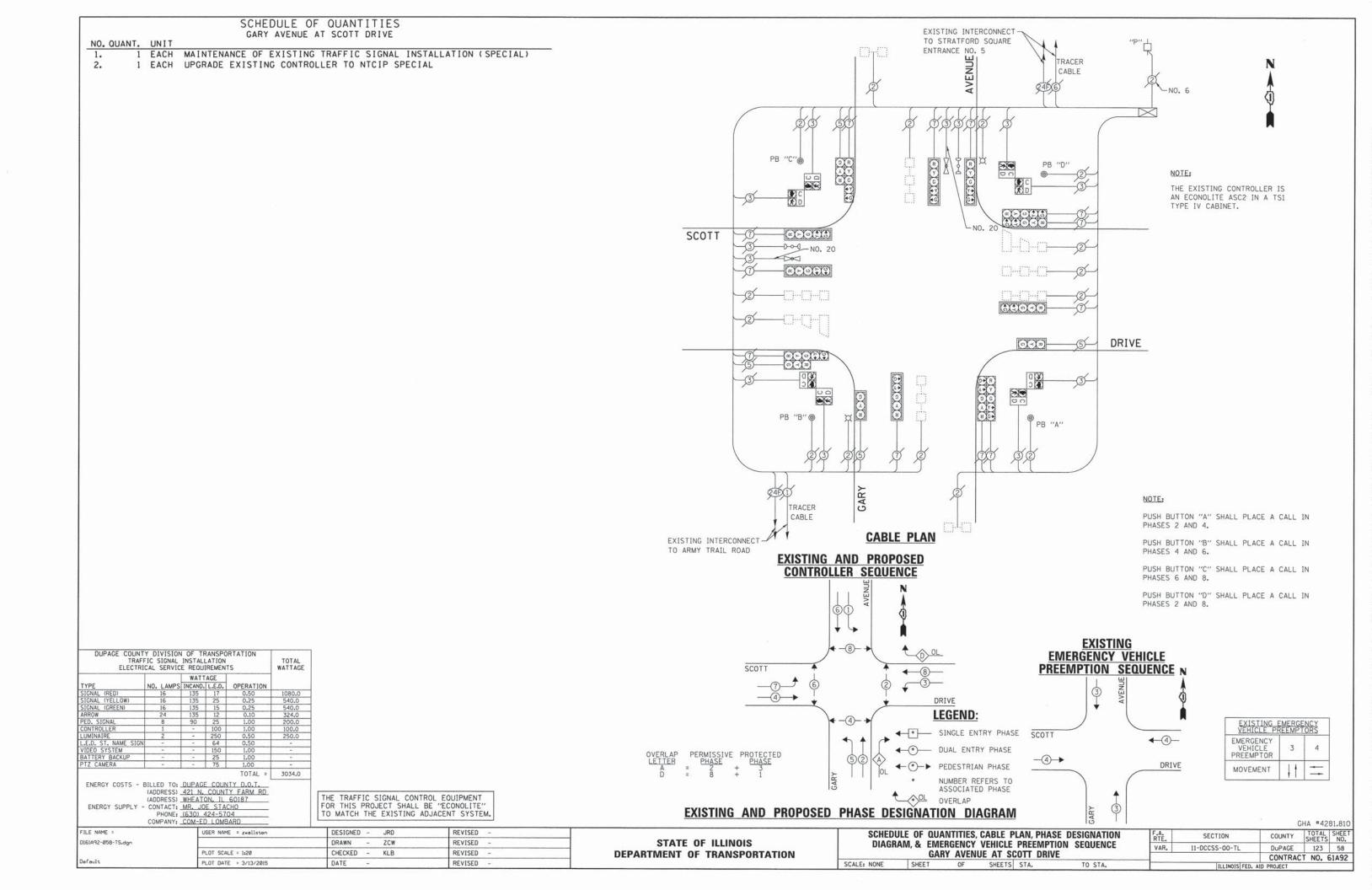
## FOR INFORMATION ONLY

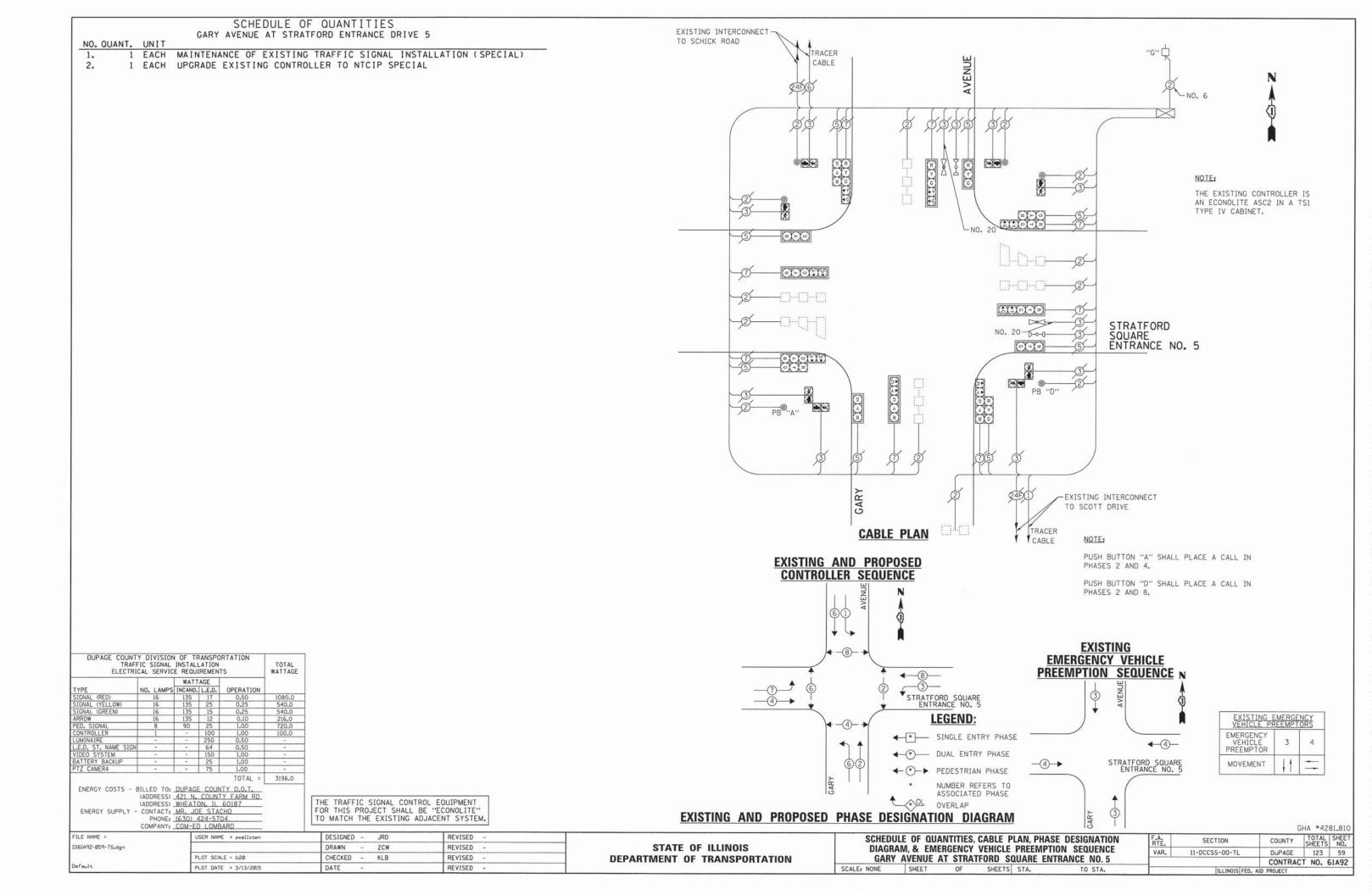
A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCEE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

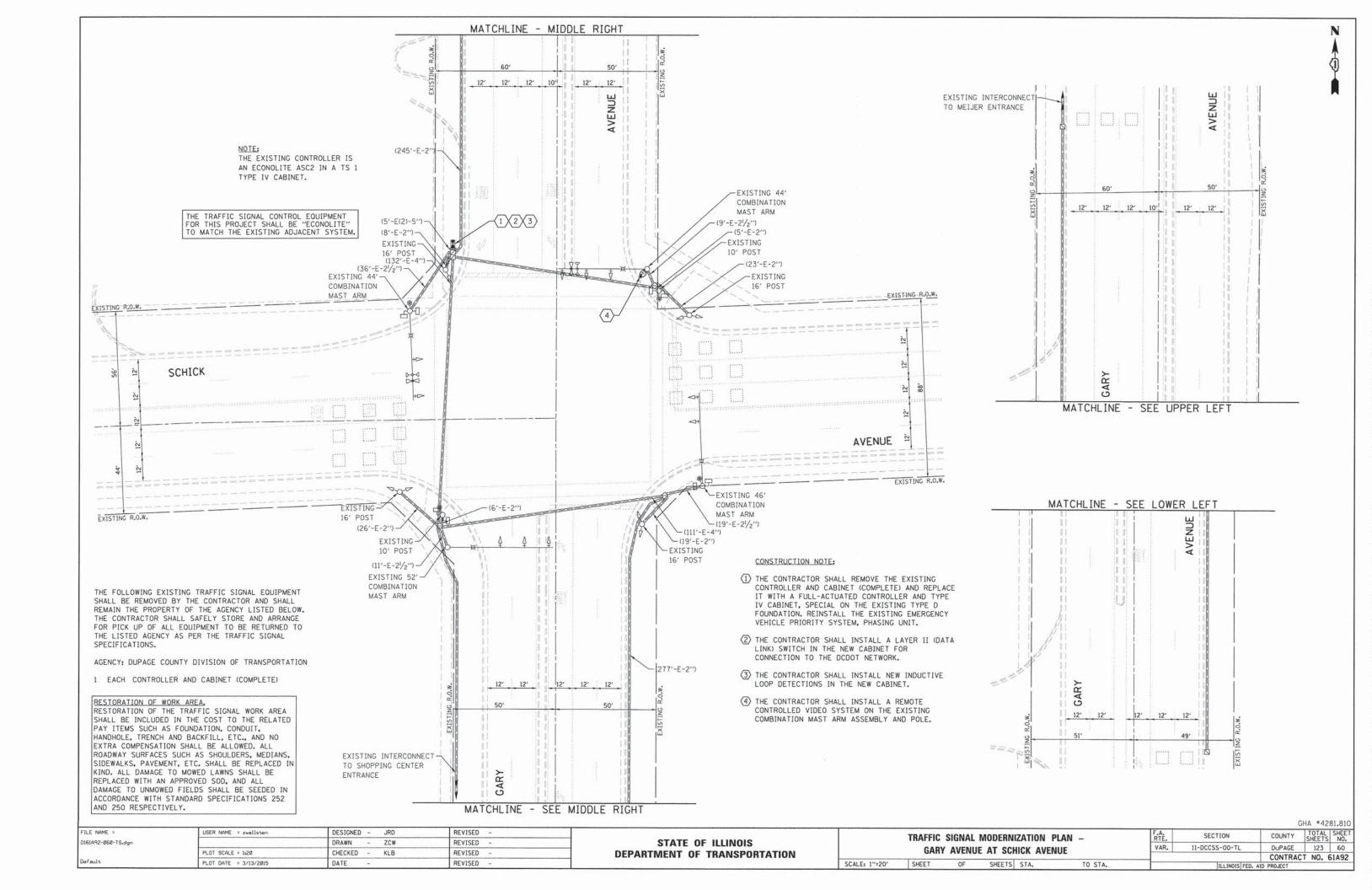
GHA #4281.810 COUNTY TOTAL SHEET NO.

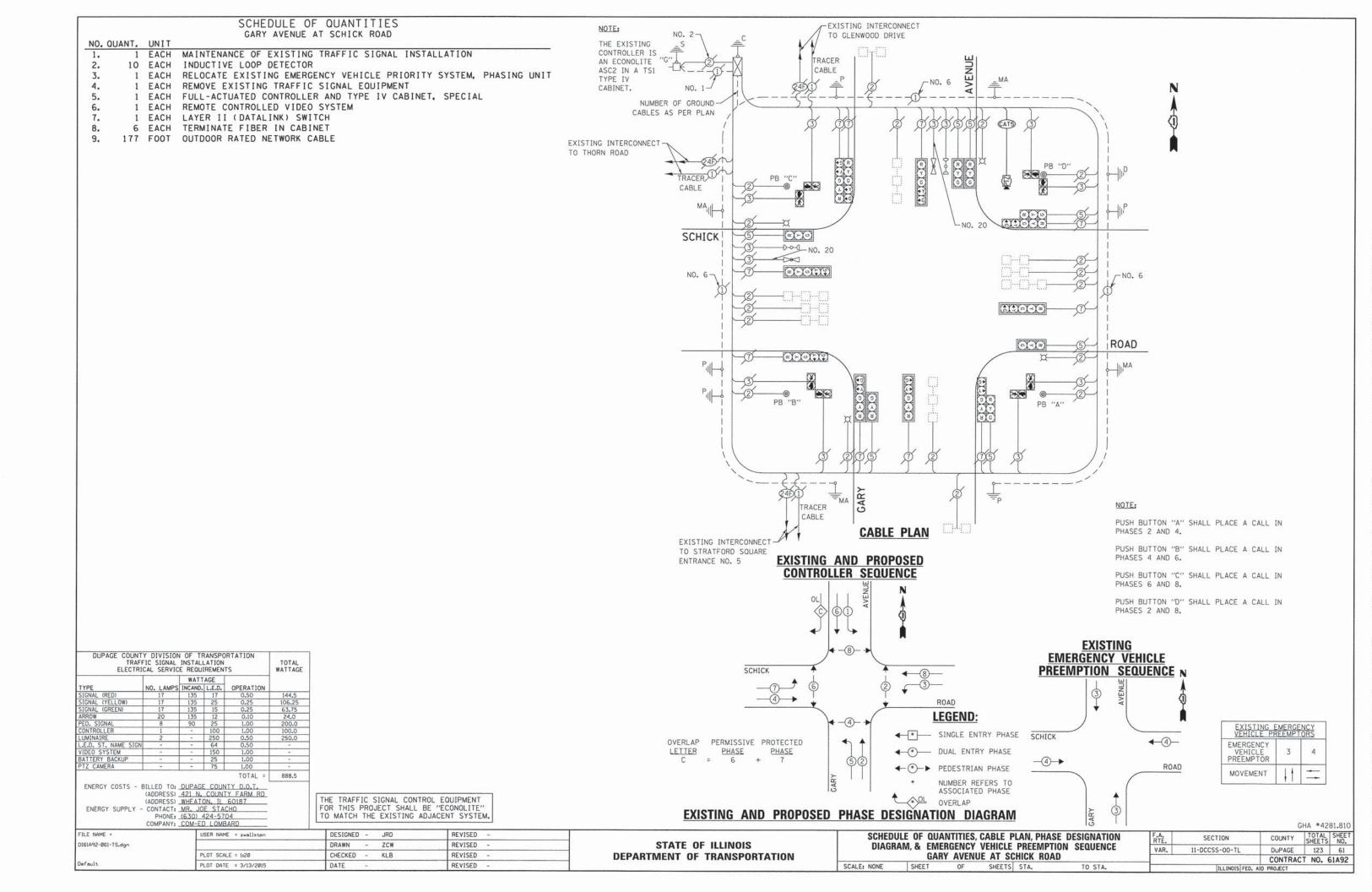
DUPAGE 123 57

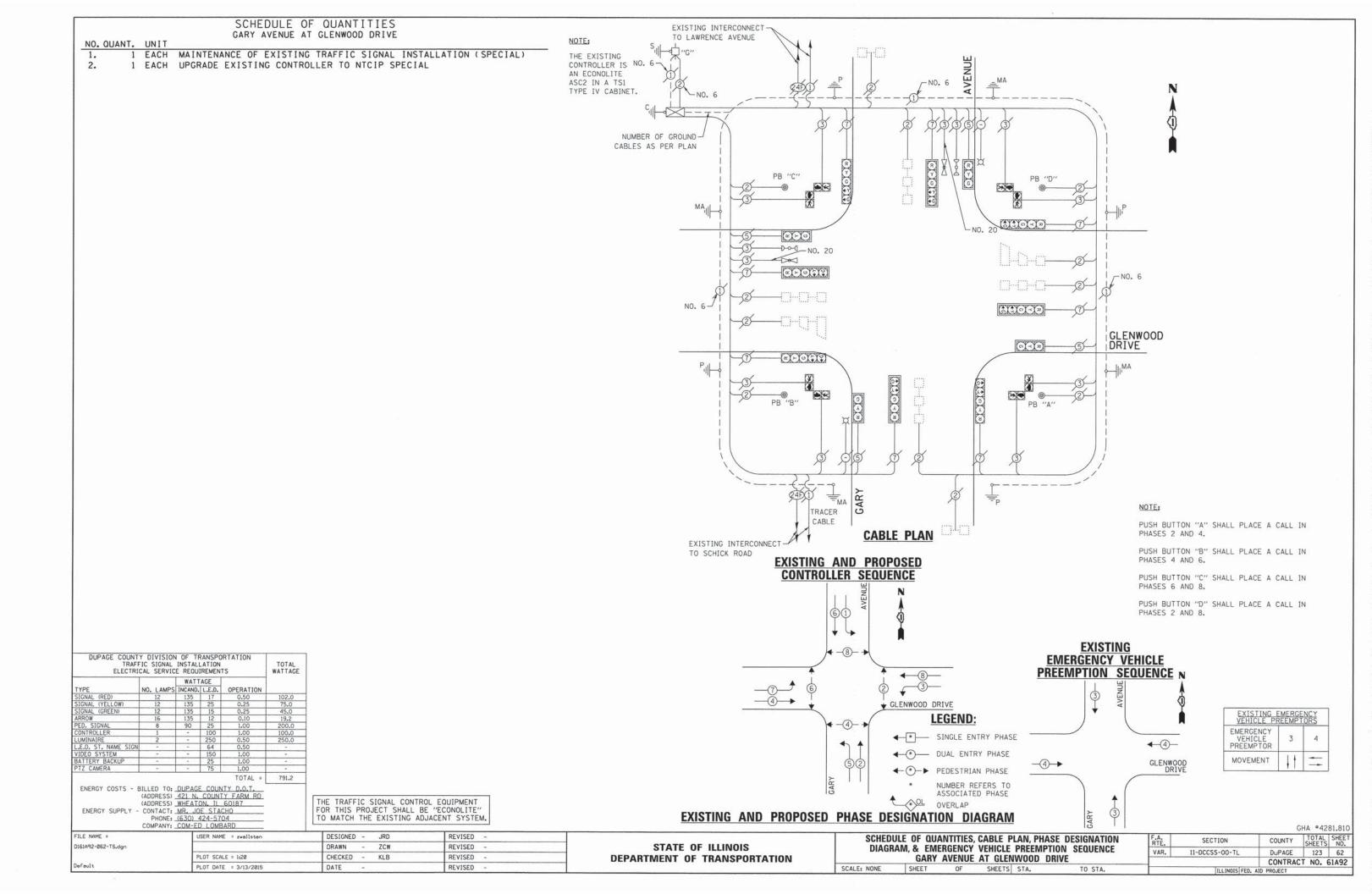
CONTRACT NO. 61A92 FILE NAME = DESIGNED - JRD REVISED -F.A. RTE. VAR. USER NAME = zwallsten SECTION RAILROAD PREEMPTION SEQUENCE D161A92-057-TS.dgn DRAWN ZCW REVISED STATE OF ILLINOIS 11-DCCSS-00-TL GARY AVENUE AT ARMY TRAIL ROAD PLOT SCALE = 1:20 DEPARTMENT OF TRANSPORTATION CHECKED - KLB REVISED PLOT DATE = 3/13/2015 DATE REVISED SCALE: NONE SHEETS STA.

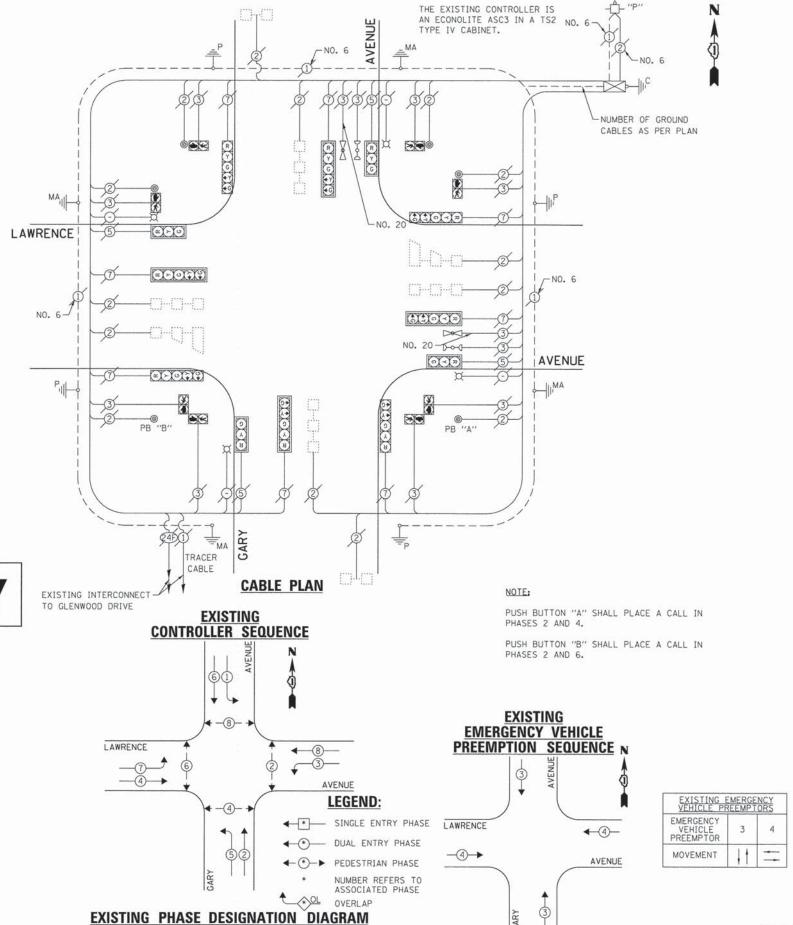












NOTE:

### FOR INFORMATION ONLY

DUPAGE COUNTY DIVISION OF TRANSPORTATION TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE			
		INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	2		250	0.50	250.0
L.E.D. ST. NAME SIGN			64	0.50	-
VIDEO SYSTEM	-	- 3	150	1.00	
BATTERY BACKUP	-	-	25	1.00	18
PTZ CAMERA		-	75	1.00	
				TOTAL =	791.2

ENERGY COSTS - BILLED TO: DUPAGE COUNTY D.O.T.

(ADDRESS) 421 N. COUNTY FARM RD

(ADDRESS) WHEATON, IL 60187

ENERGY SUPPLY - CONTACT: MR. JOF STACHO

PHONE: (630) 424-5704

FILE NAME =

0161A92-063-T5.dgn

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE GARY AVENUE AT LAWRENCE AVENUE

NONE SHEET OF SHEETS STA. TO STA.

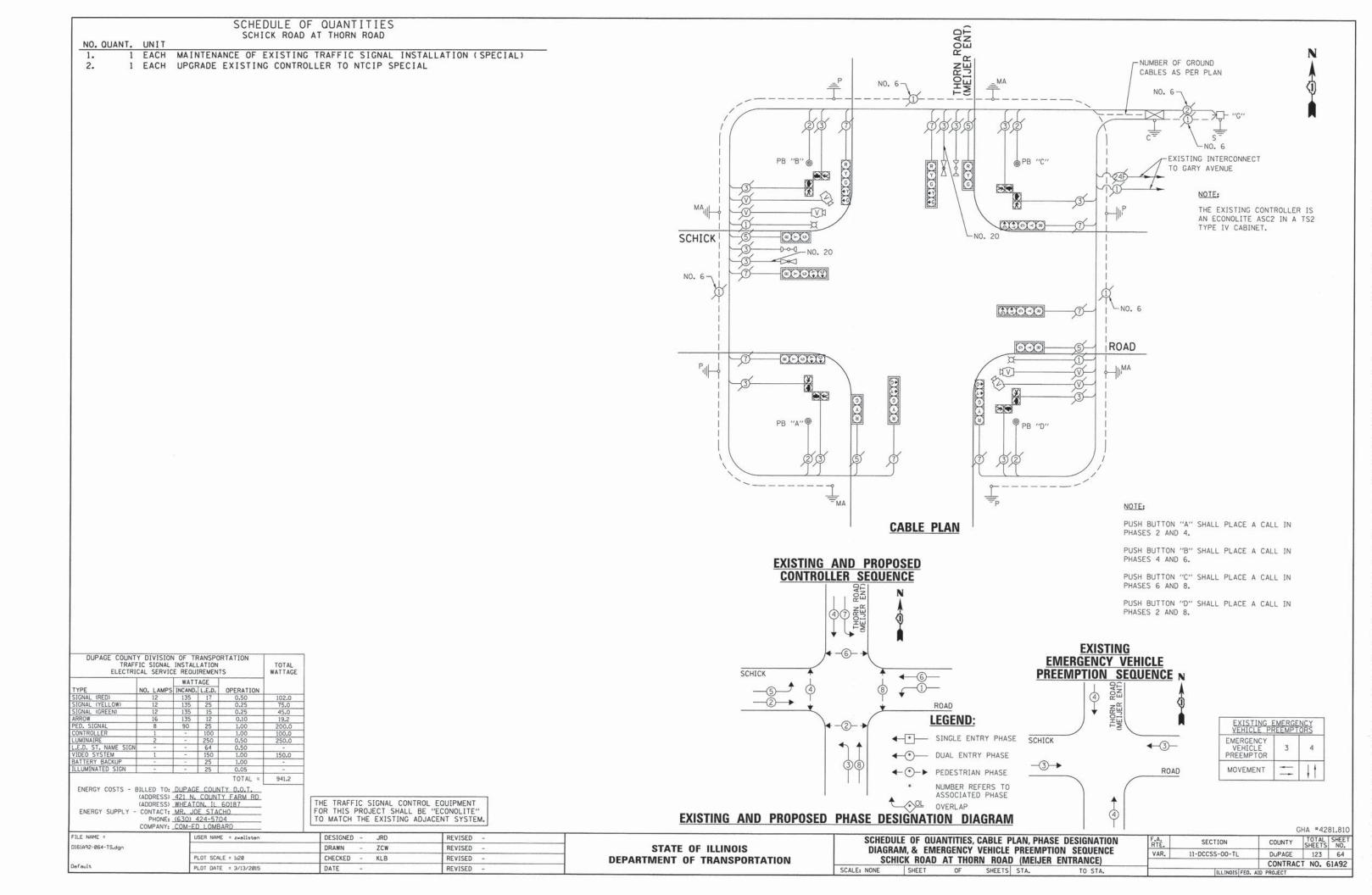
F.A. SECTION COUNTY TOTAL SHEET'S NO.

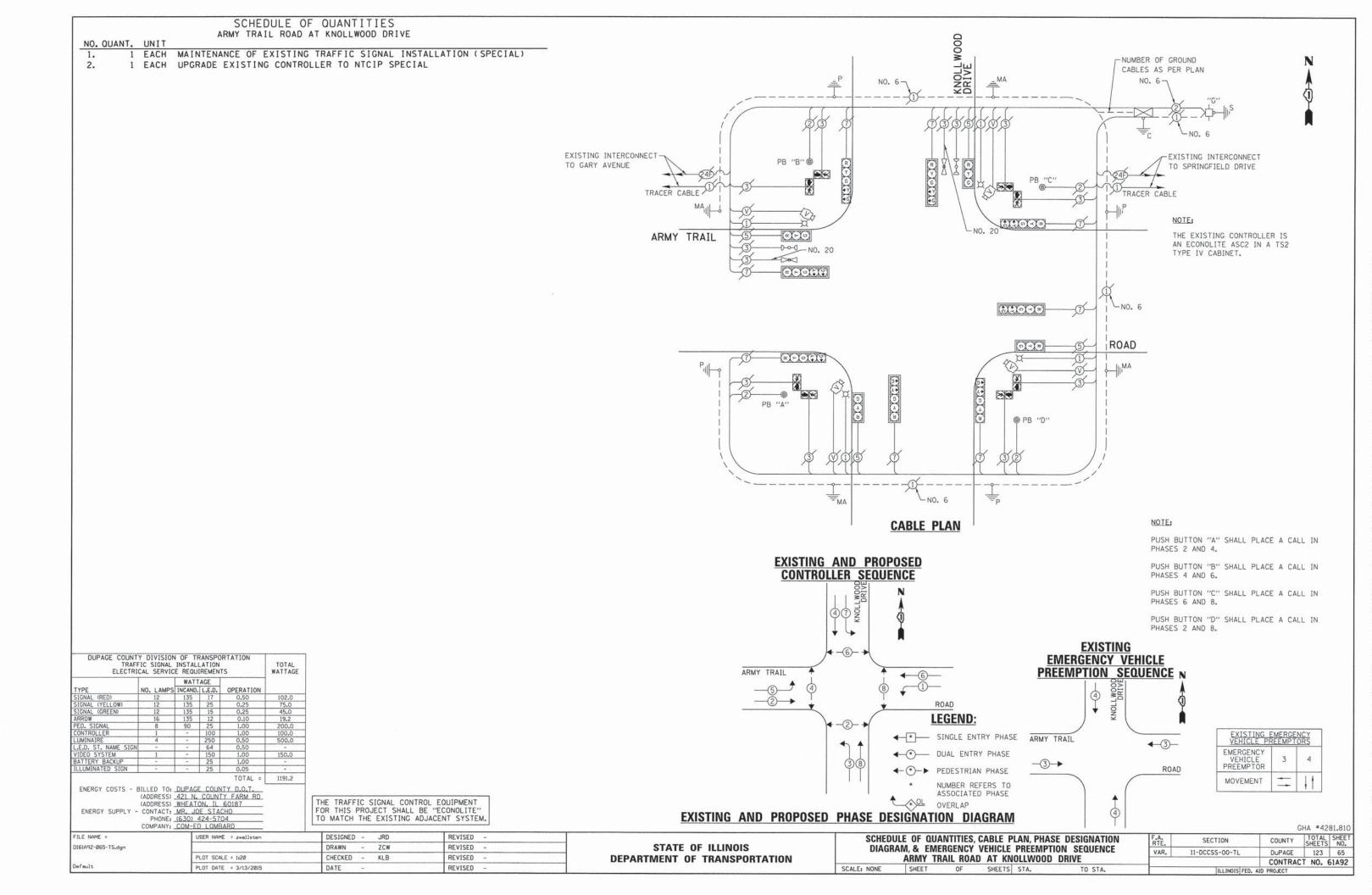
VAR. 11-DCCSS-00-TL DUPAGE 123 63

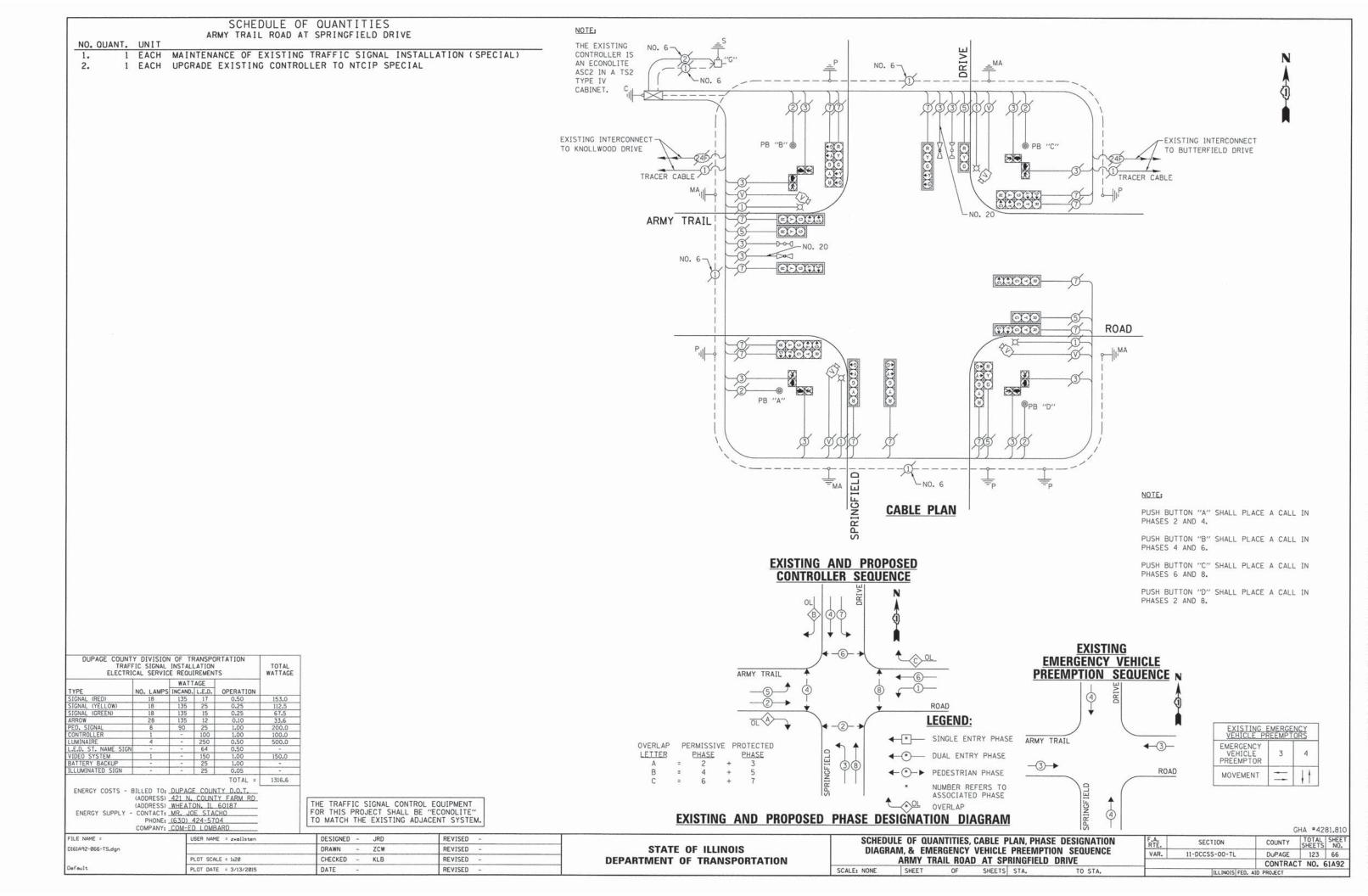
CONTRACT NO. 61A92

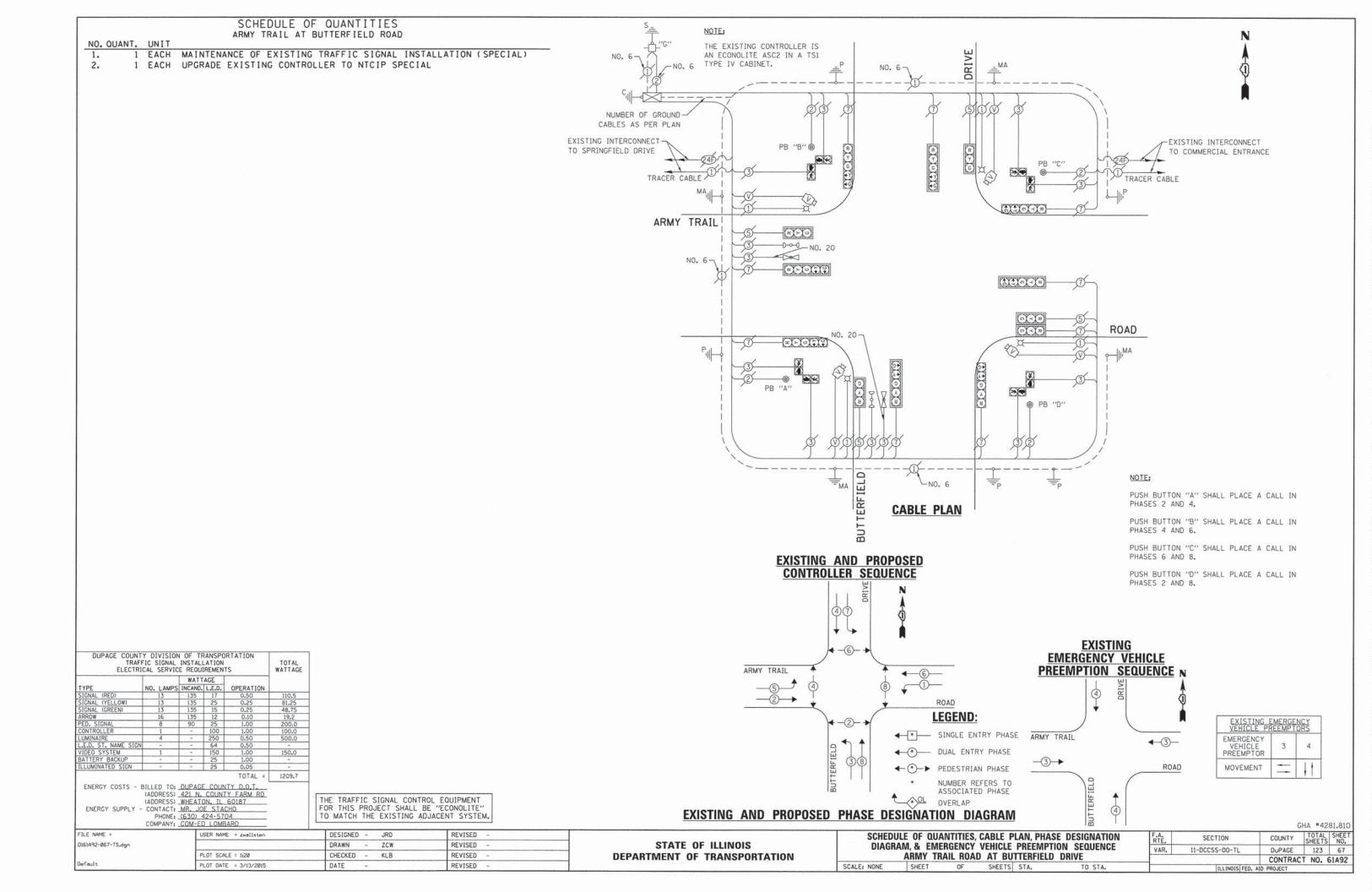
||ILLINOIS||FED. AID PROJECT|

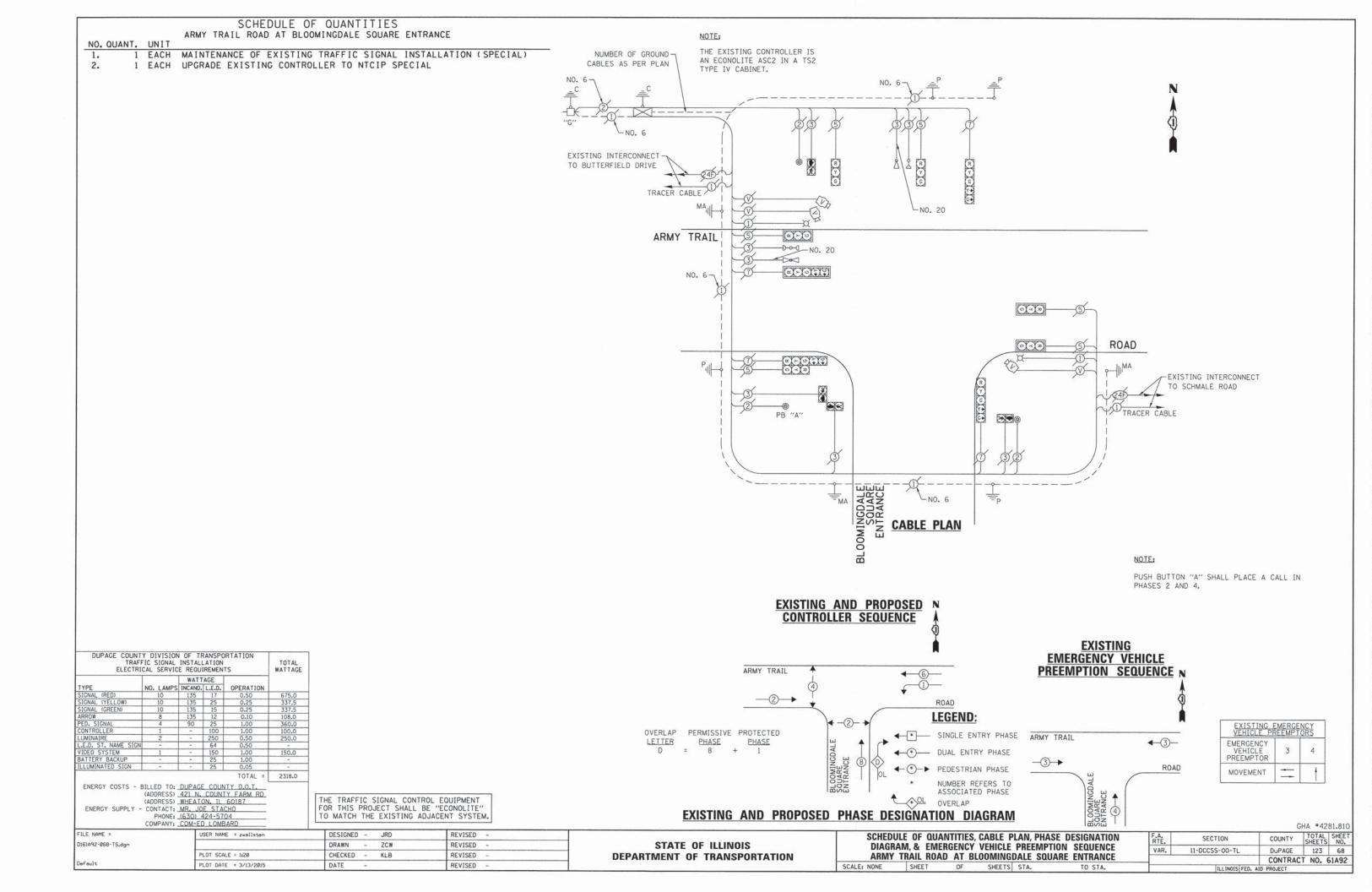
GHA #4281.810

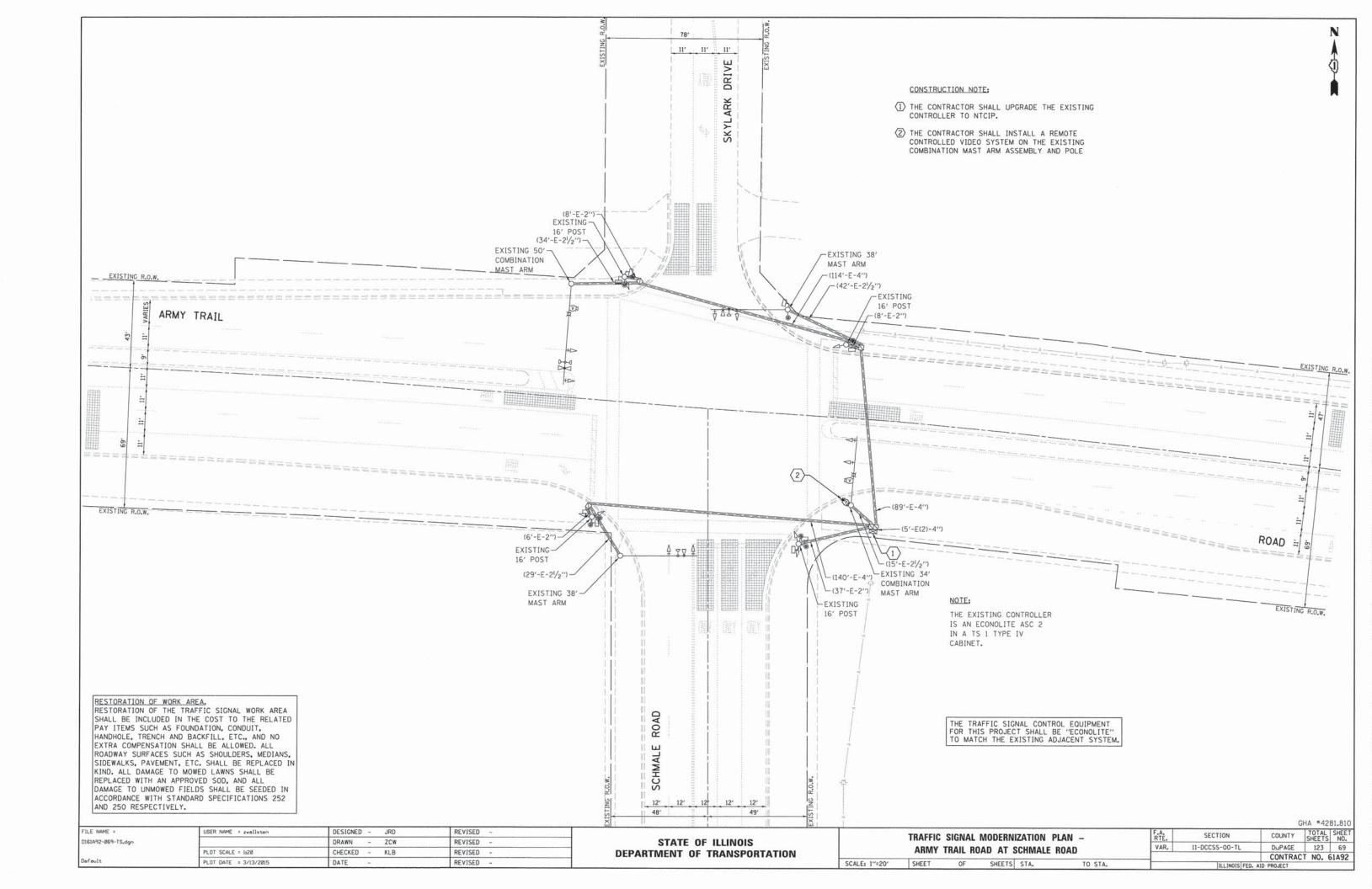


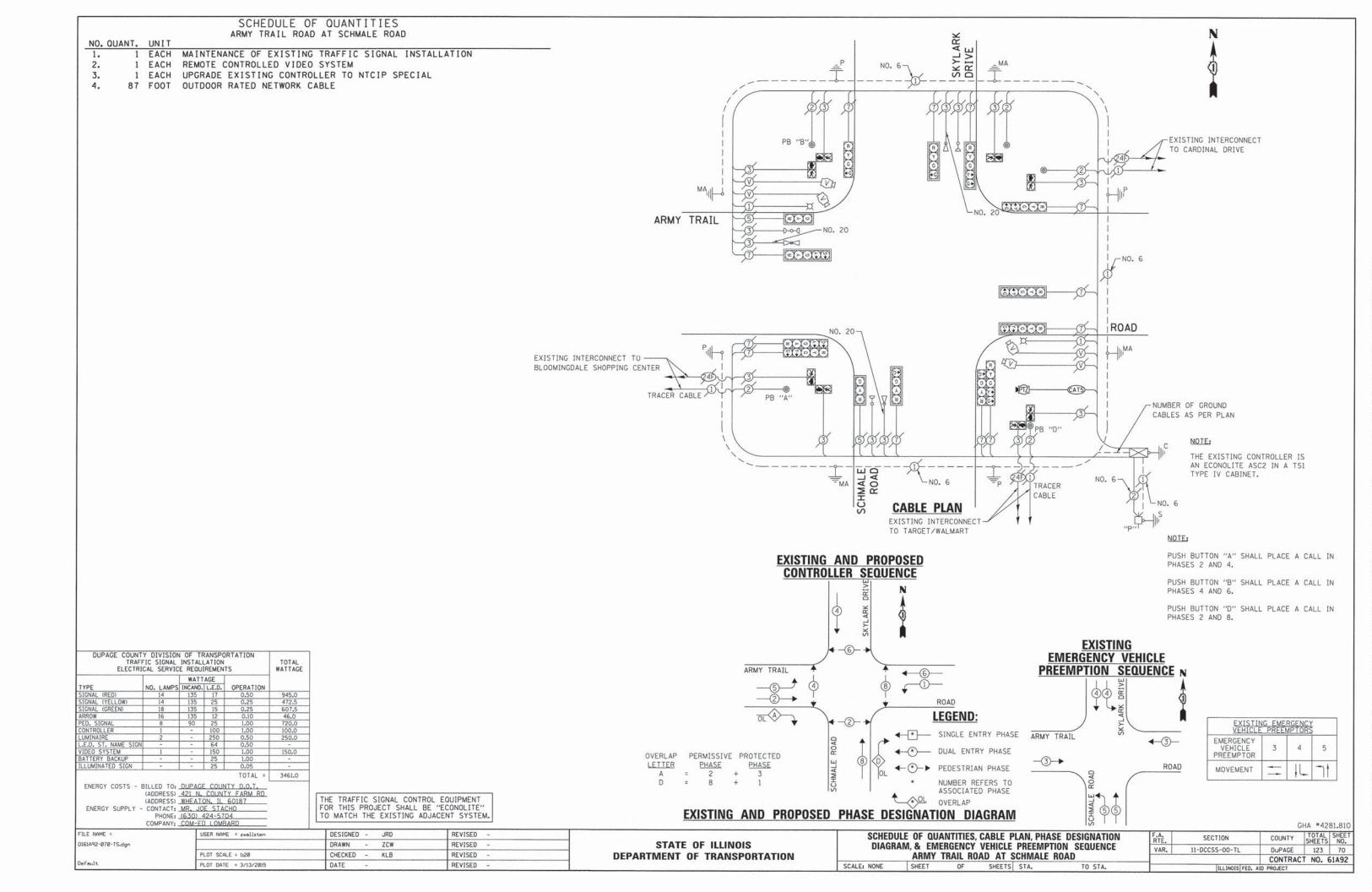


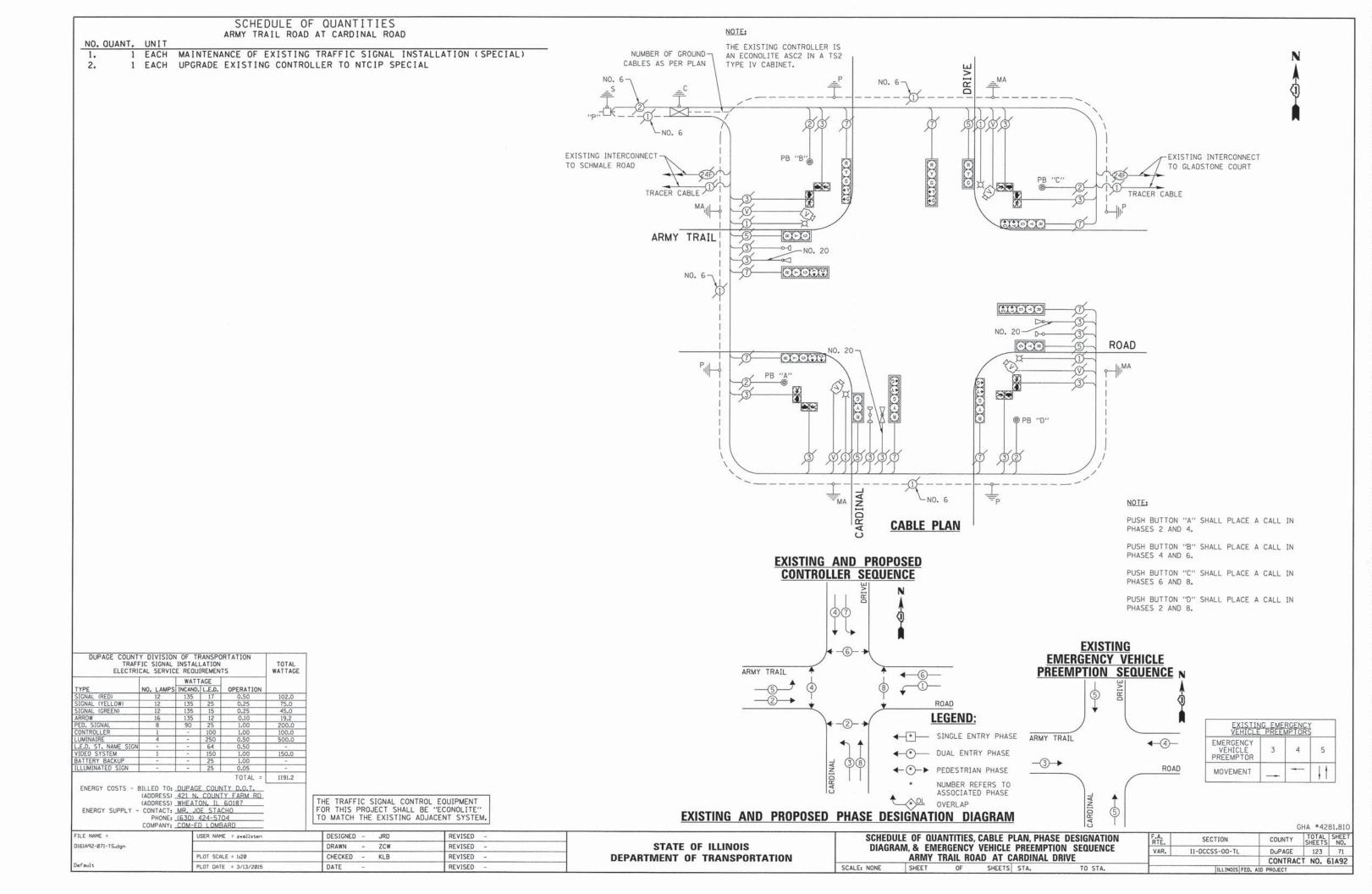


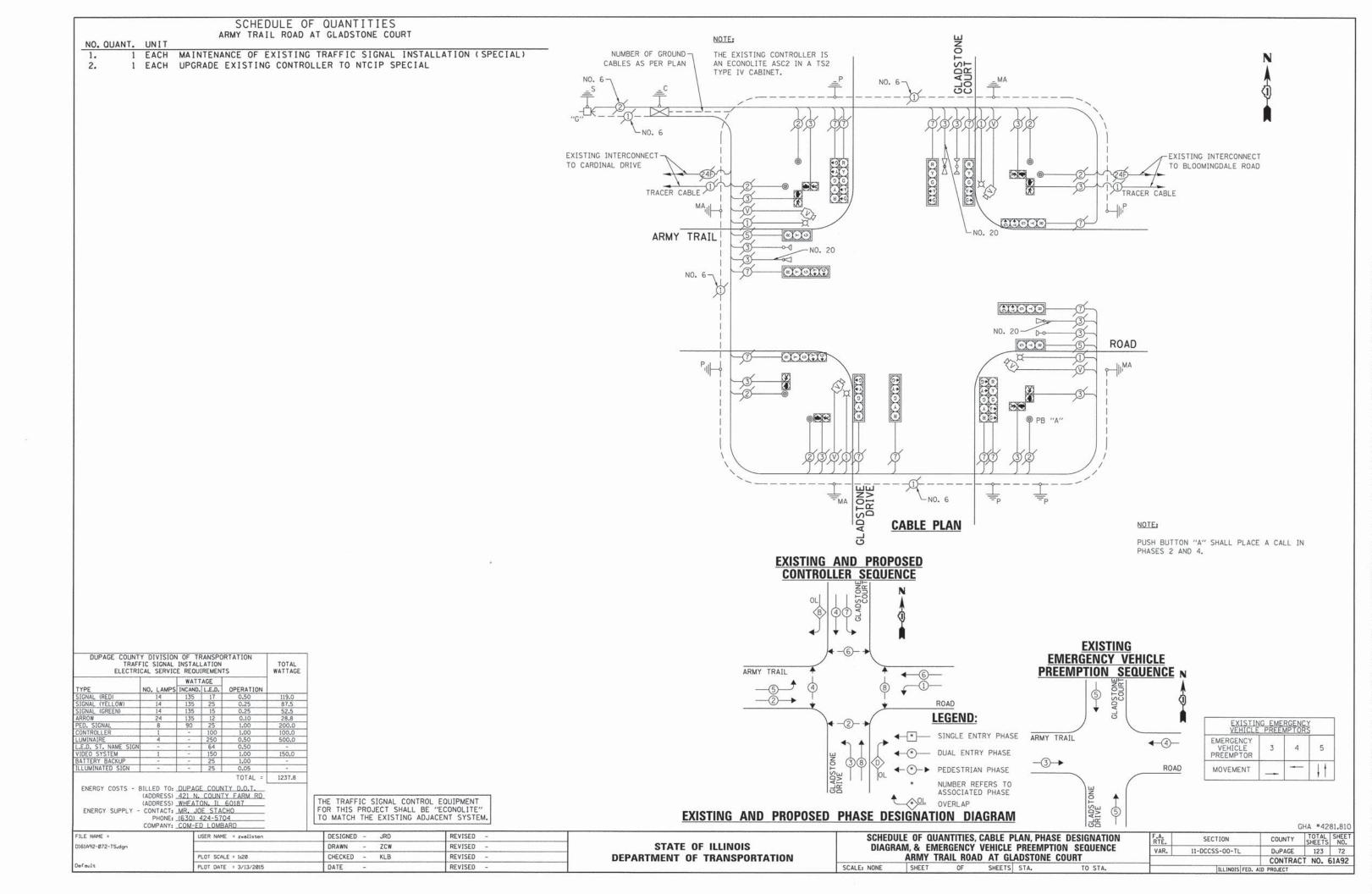


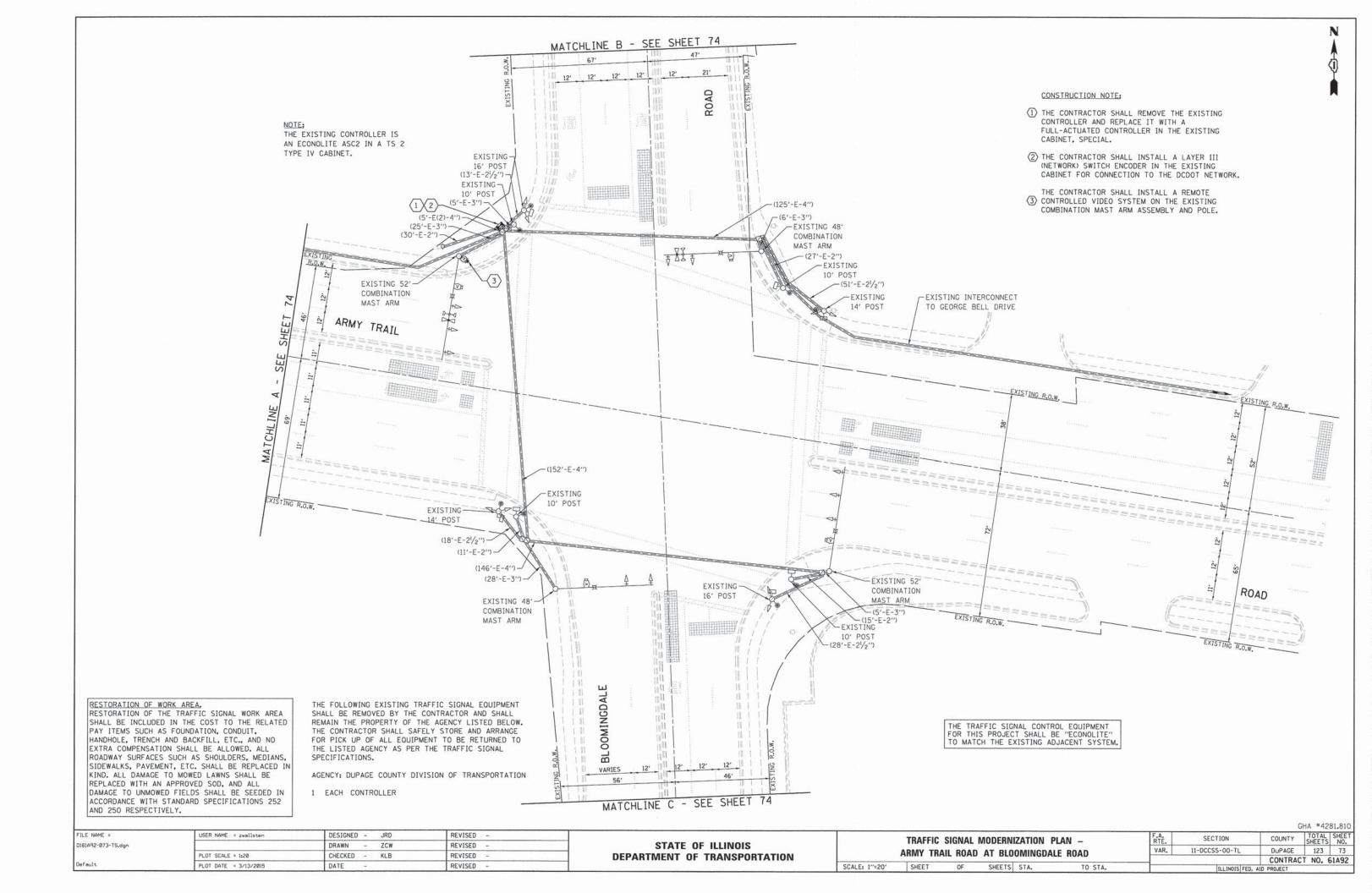




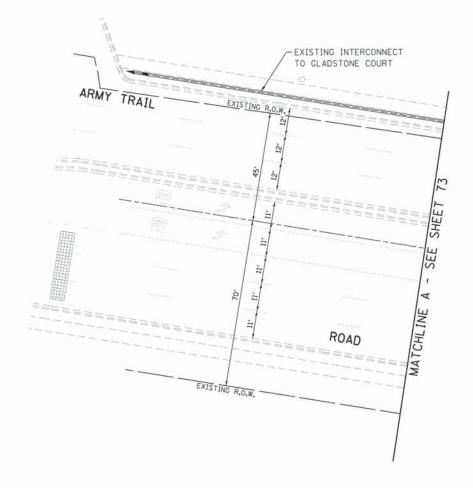


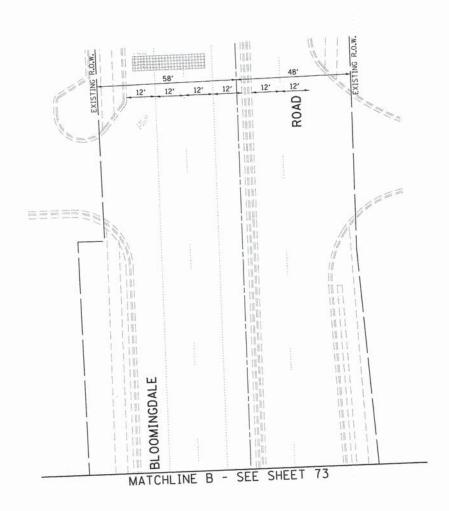


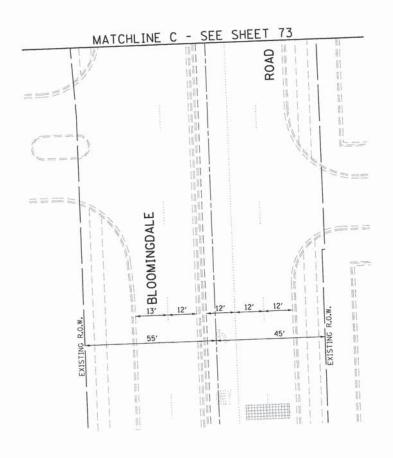




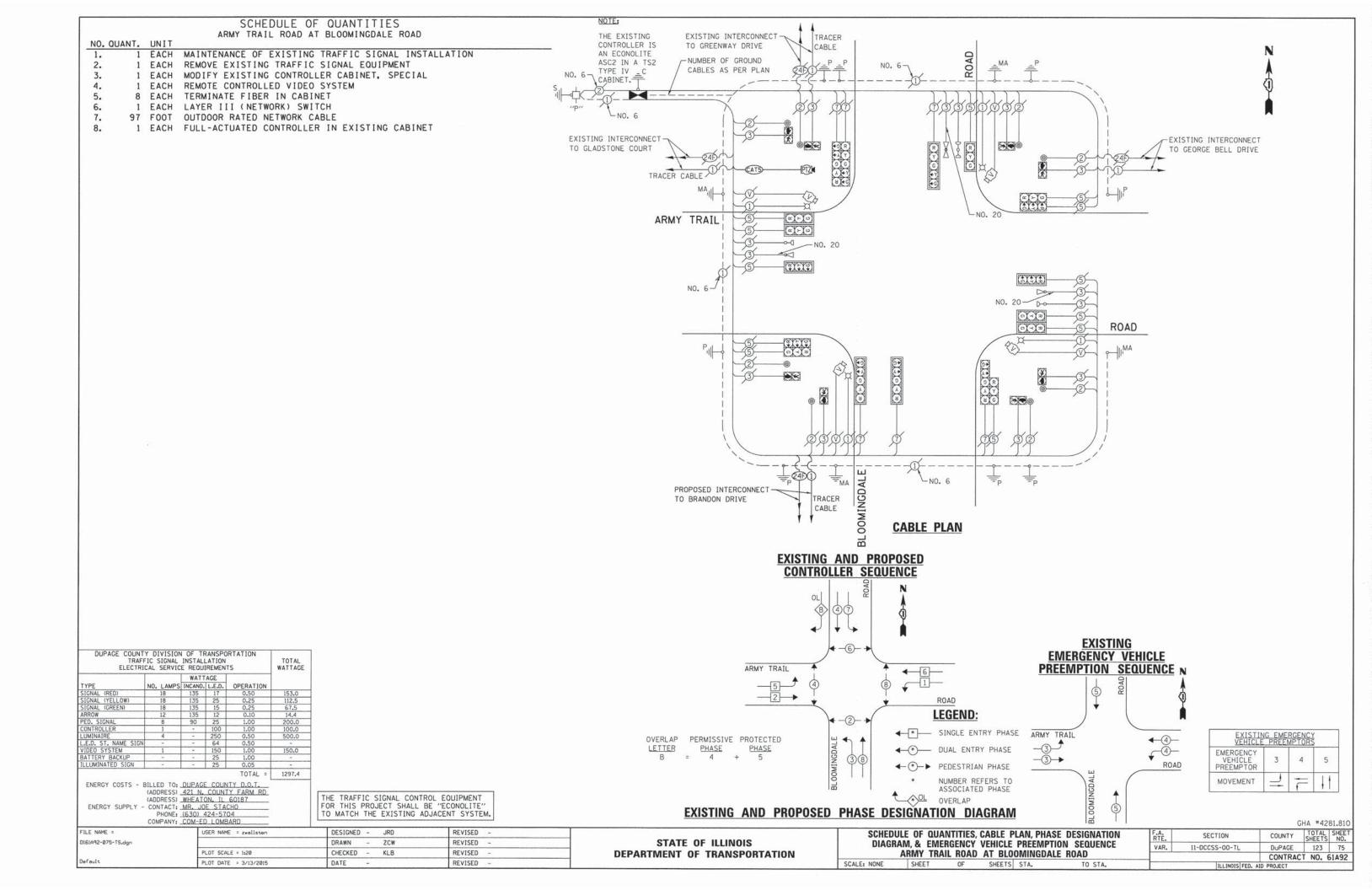


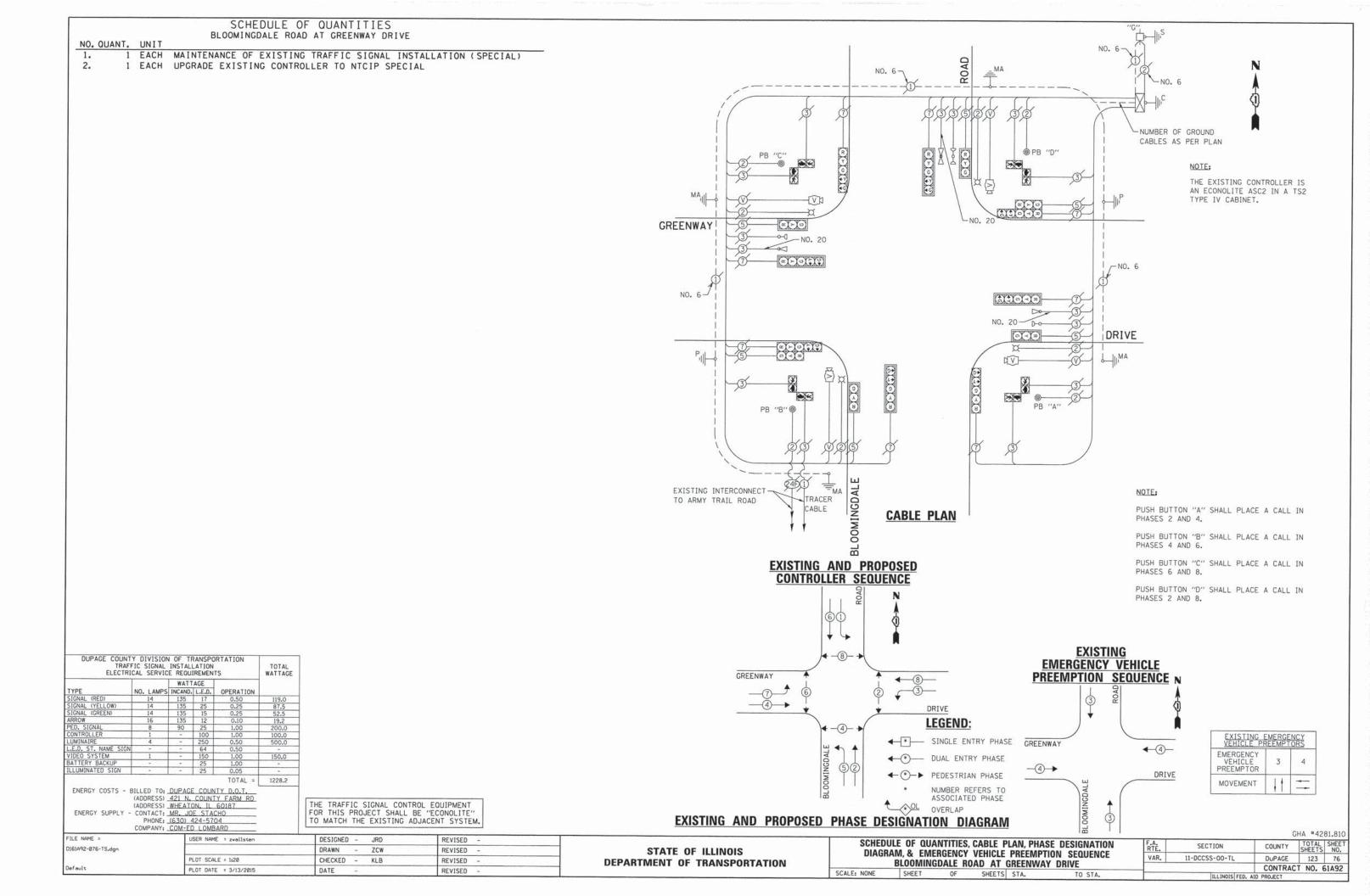


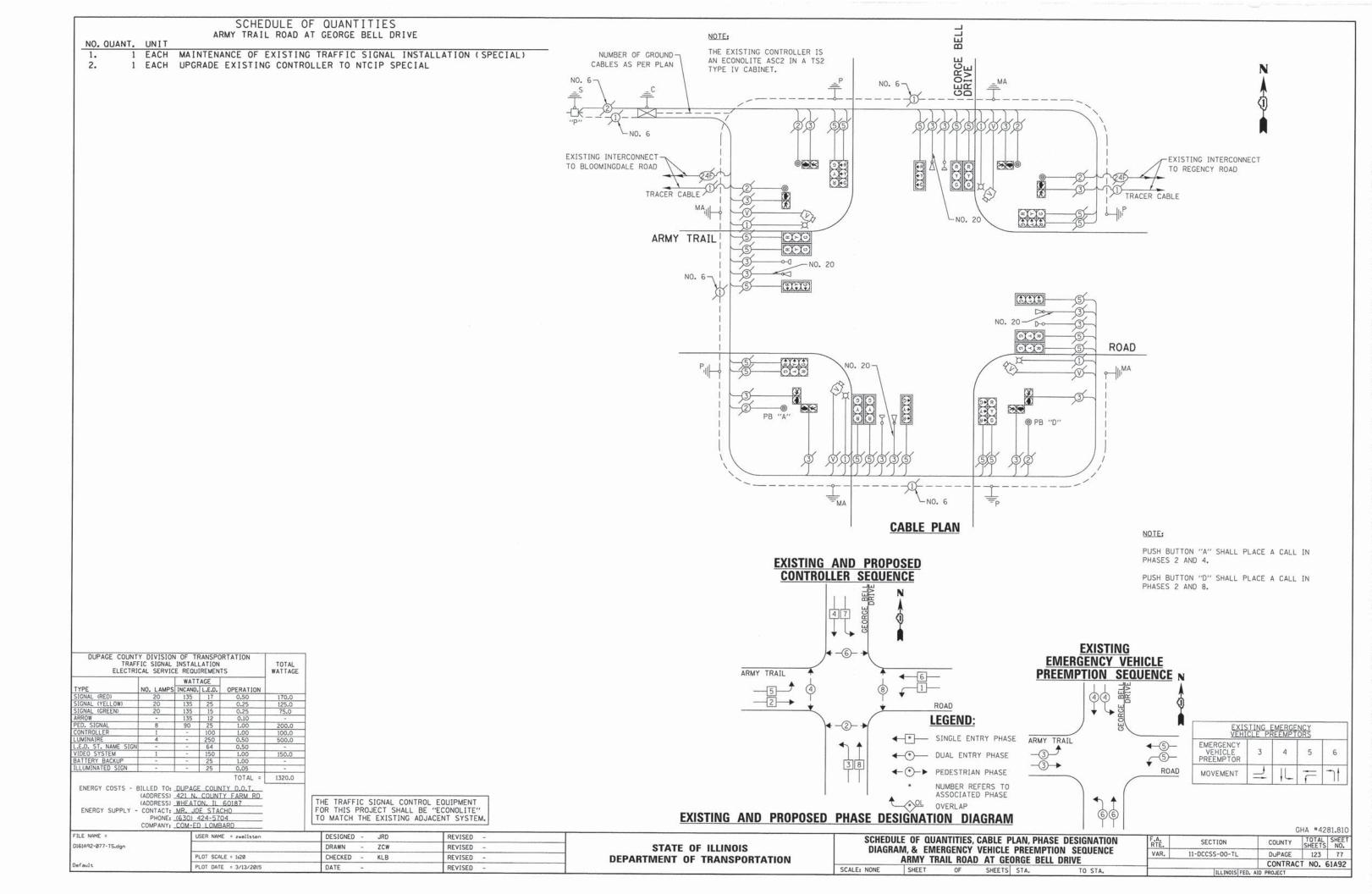


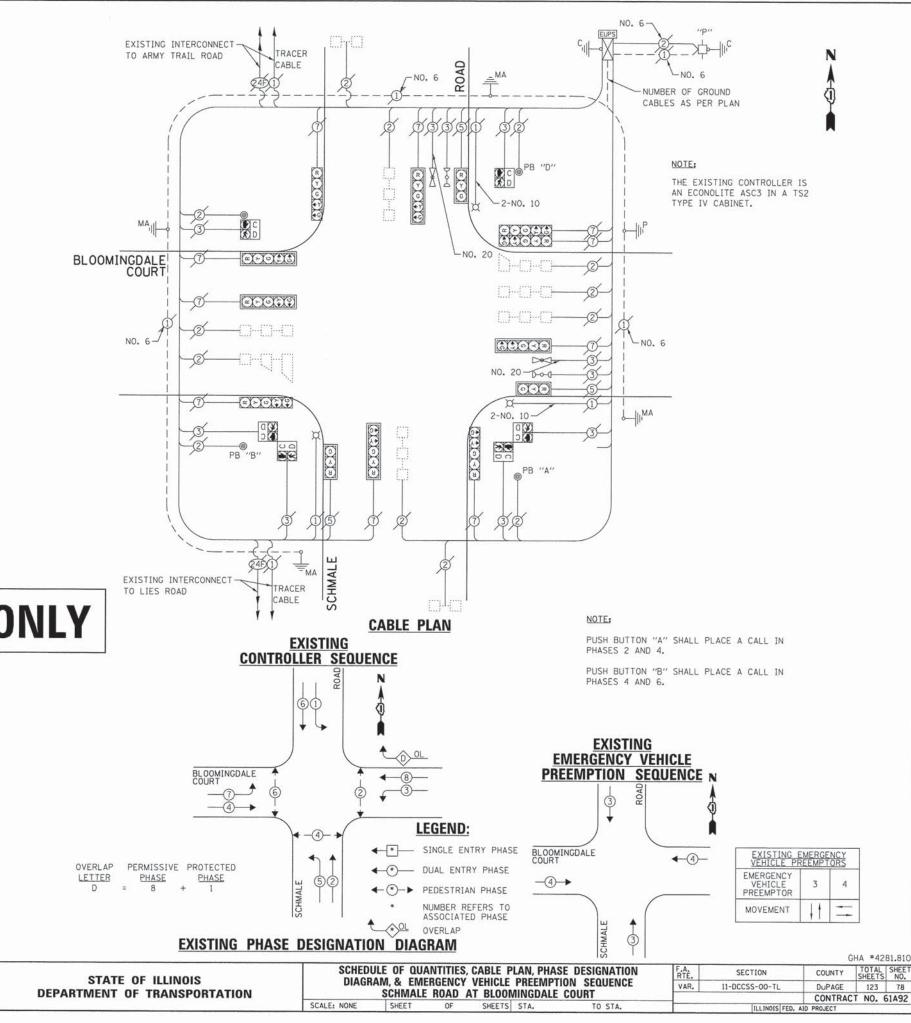


							GHA #4281.810
FILE NAME =	USER NAME = zwallsten	DESIGNED - JRD	REVISED -		TRAFFIC SIGNAL MODERNIZATION PLAN -	F.A. SECTION	COUNTY TOTAL SHEET
D161A92-074-TS.dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS		VAR. 11-DCCSS-00-TL	DuPAGE 123 74
	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	ARMY TRAIL ROAD AT BLOOMINGDALE ROAD	VAR. 11-DCC33-00-1L	CONTRACT NO. 61A92
Default	PLOT DATE = 3/13/2015	DATE -	REVISED -		SCALE: 1"=20" SHEET OF SHEETS STA. TO STA.	ILLINOIS FF	D. AID PROJECT









## FOR INFORMATION ONLY

DUPAGE COUNTY DIVISION OF TRANSPORTATION TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE

ENERGY COSTS - BILLED TO: <u>DUPAGE COUNTY D.O.T.</u>
(ADDRESS) 421 N. COUNTY FARM RD (ADDRESS) WHEATON, IL 60187
ENERGY SUPPLY - CONTACT: MR. JDE STACHO
PHONE: (6.50) 429-5704
COMPANY: \_COM-ED\_LOMBARD

FILE NAME =

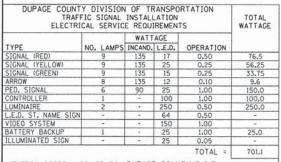
0161A92-078-T5.dgn

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

ISER NAME = zwallsten DESIGNED -JRD REVISED DRAWN REVISED ZCW PLOT SCALE = 1:20 CHECKED - KLB REVISED PLOT DATE = 3/13/2015 DATE

COUNTY TOTAL SHEE NO. DuPAGE 123 78 CONTRACT NO. 61A92





ENERGY COSTS - BILLED TO: <u>DUPAGE COUNTY D.O.T.</u>
(ADDRESS) 421 N. COUNTY FARM RD (ADDRESS) WHEATON, IL 60187 ENERGY SUPPLY - CONTACT: MR. JOE STACHO PHONE: (630) 424-5704 COMPANY: COM-ED LOMBARD

FILE NAME =

0161A92-079-TS.dgn

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

DESIGNED -REVISED -DRAWN ZCW REVISED PLOT SCALE = 1:20 CHECKED KLB REVISED DATE REVISED

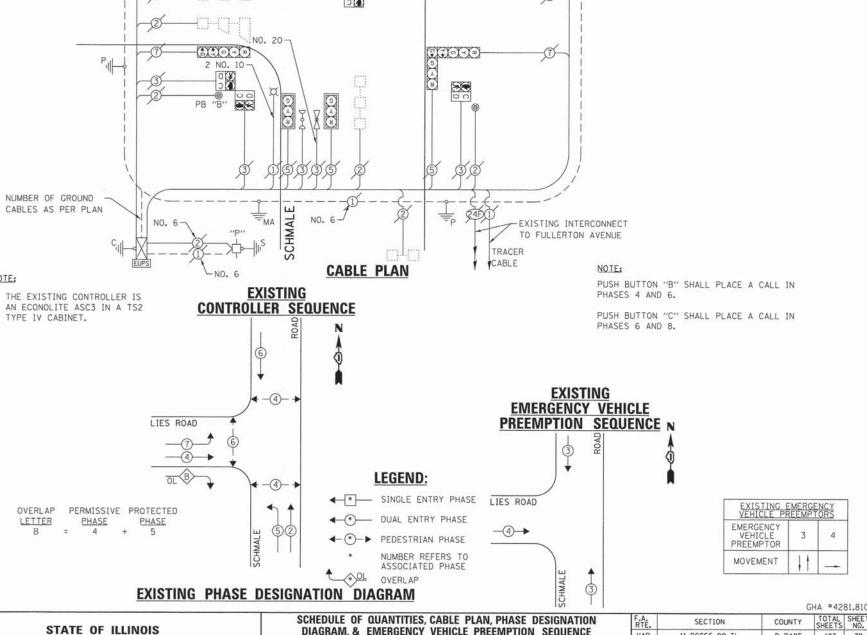
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

EXISTING INTERCONNECT TO -BLOOMINGDALE COURT ENTRANCE

LIES ROAD

DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE SCHMALE ROAD AT LIES ROAD OF SHEETS STA.

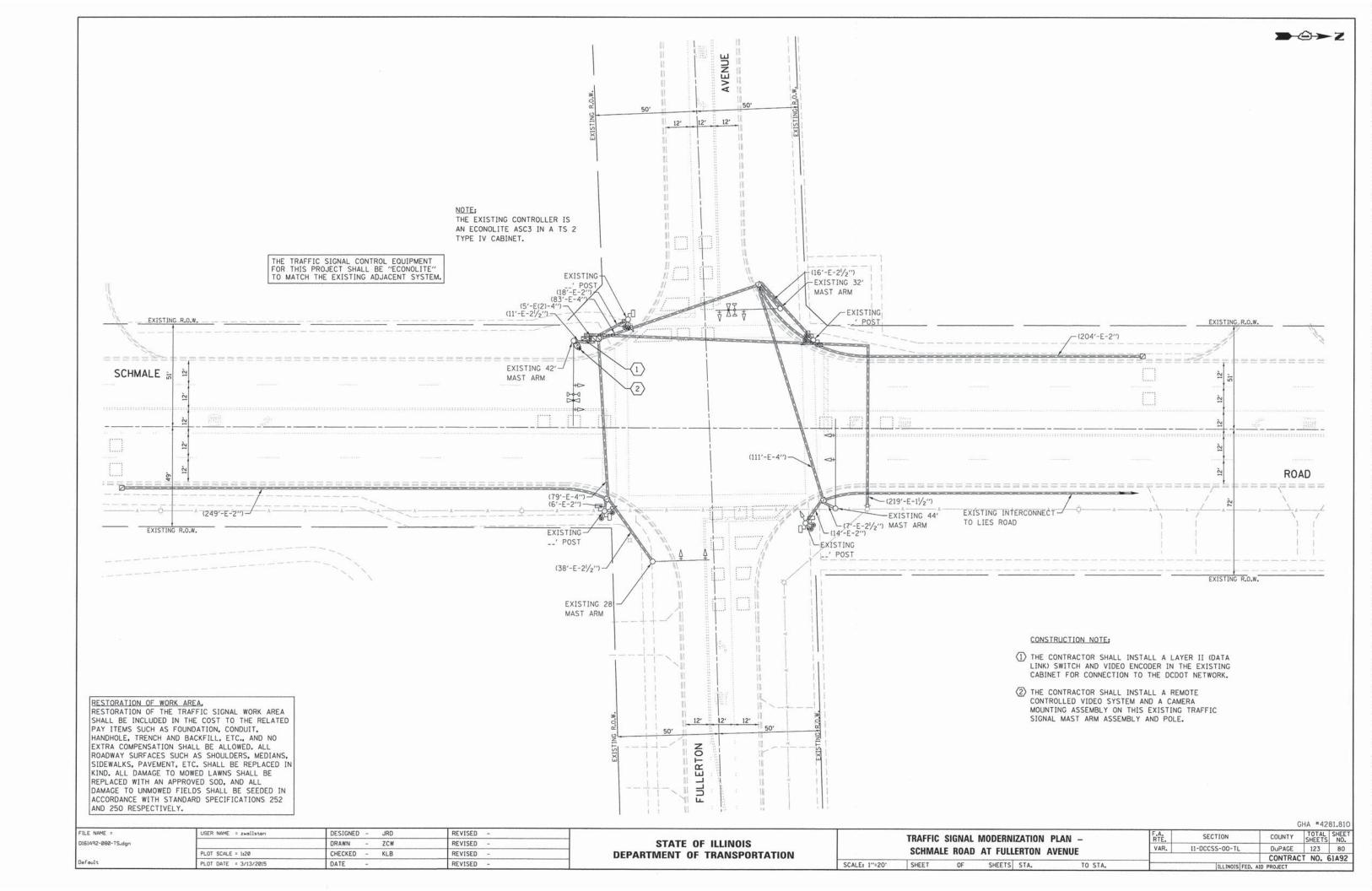
TOTAL SHEE NO. SECTION COUNTY 11-DCCSS-00-TL 123 CONTRACT NO. 61A92

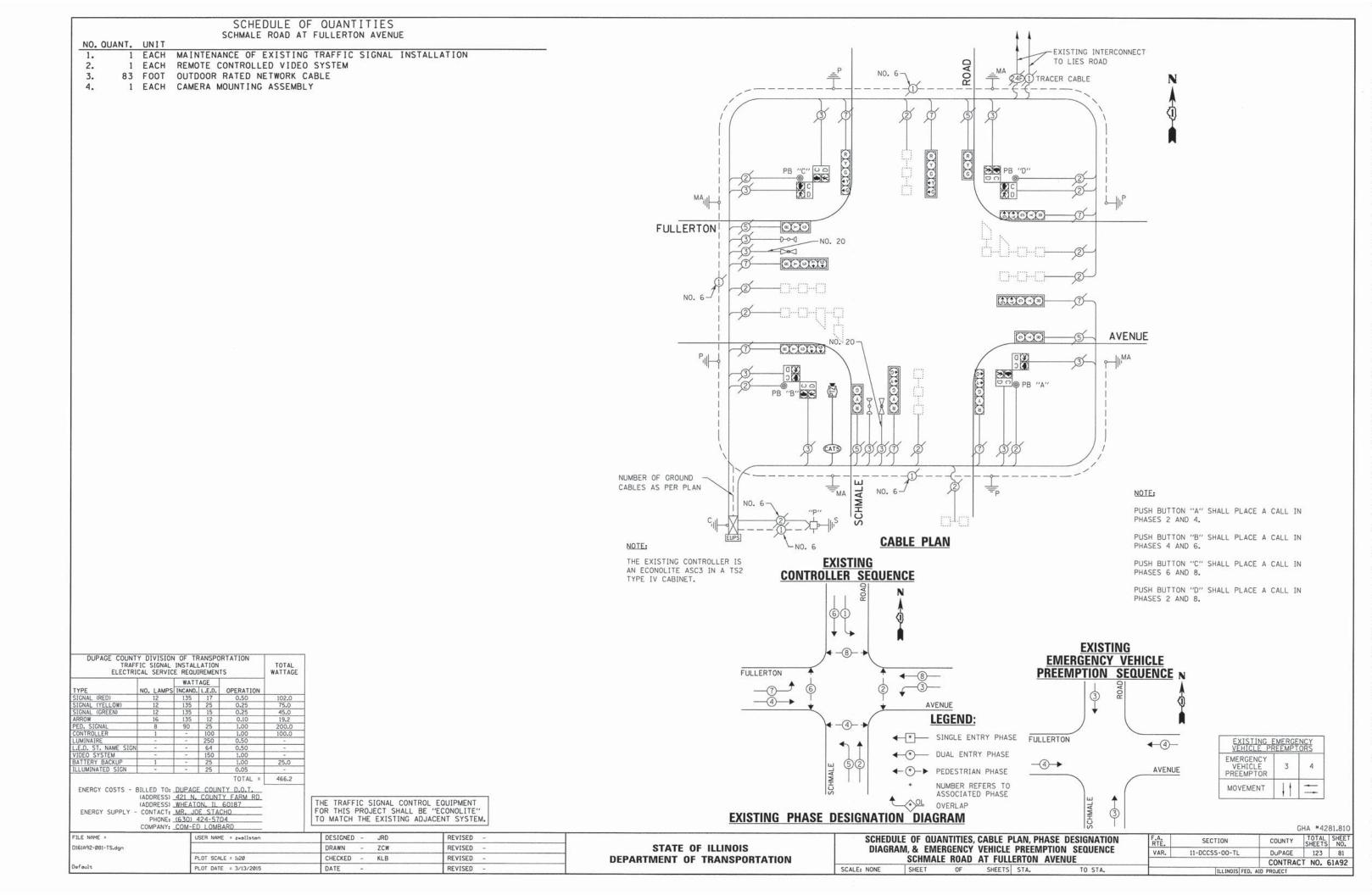


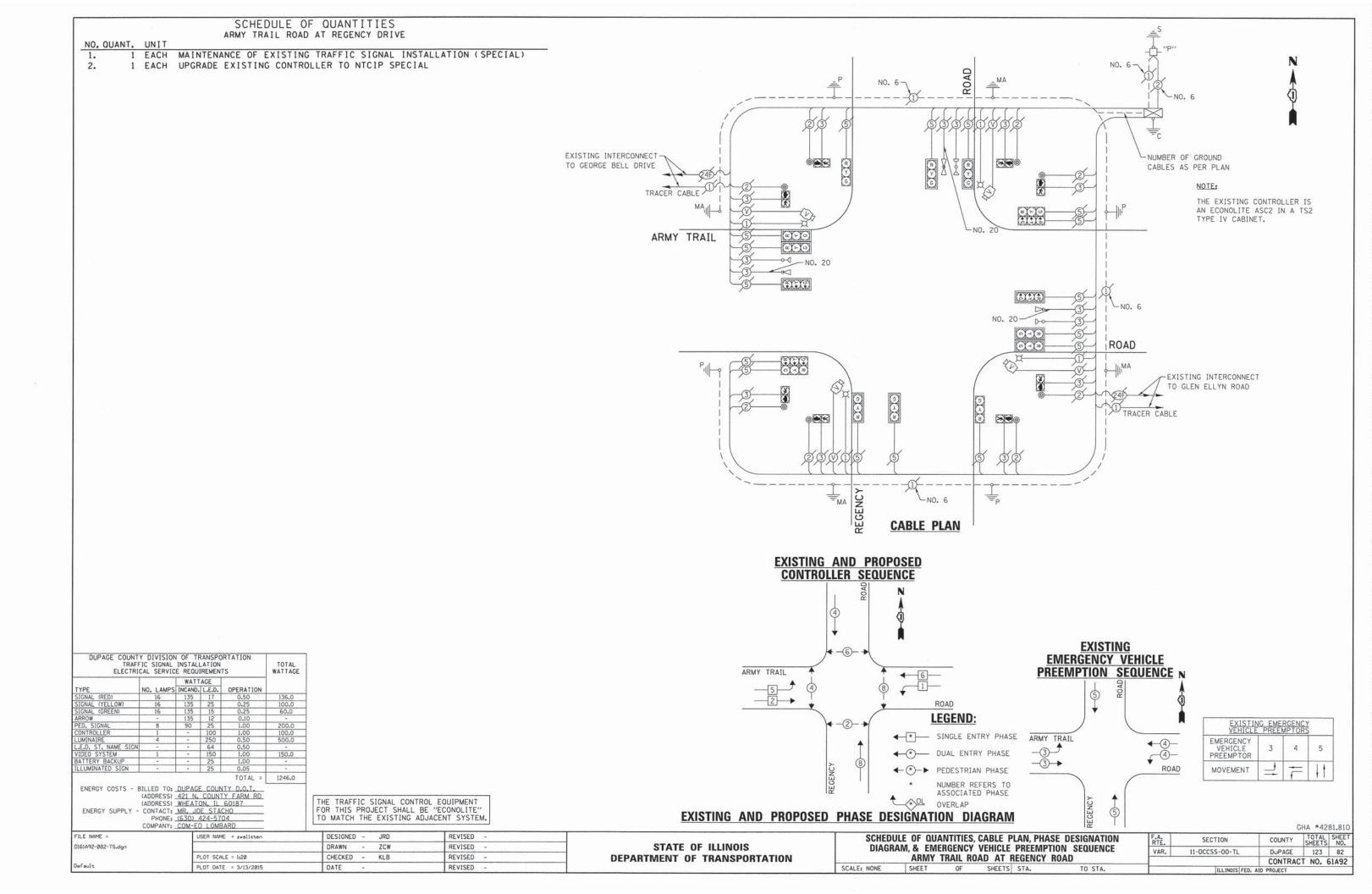
ROAD

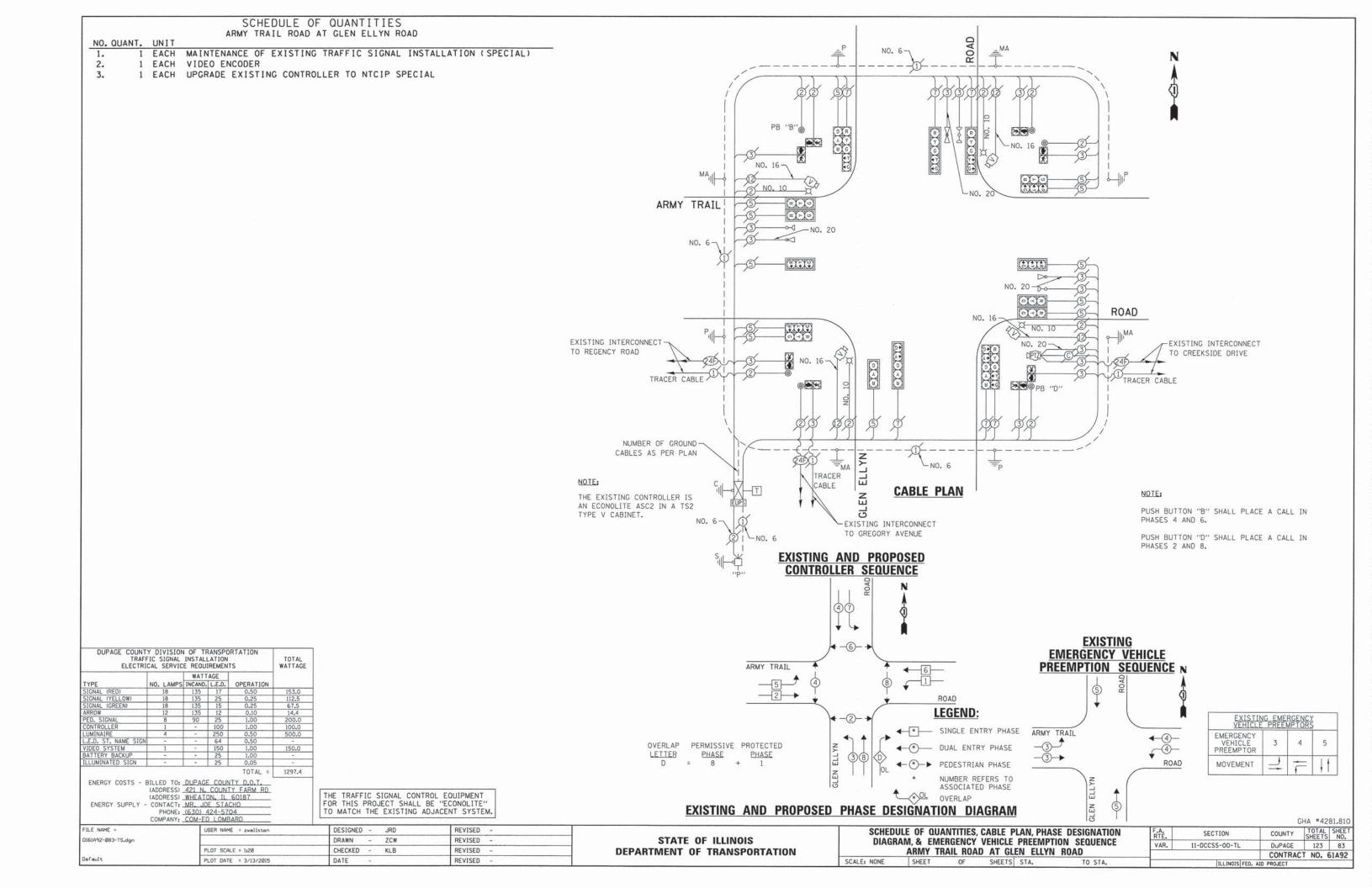
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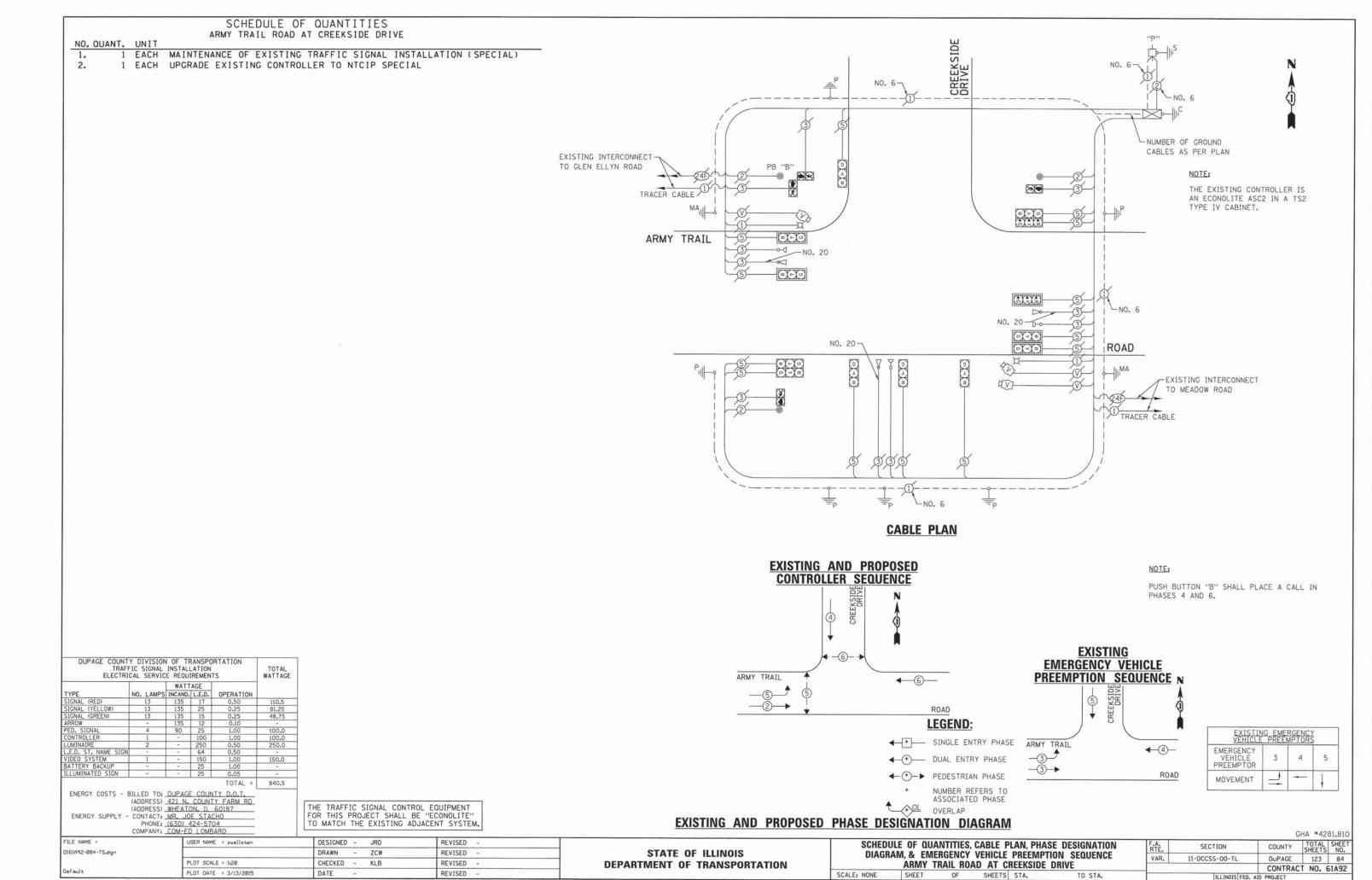
2 NO. 10-

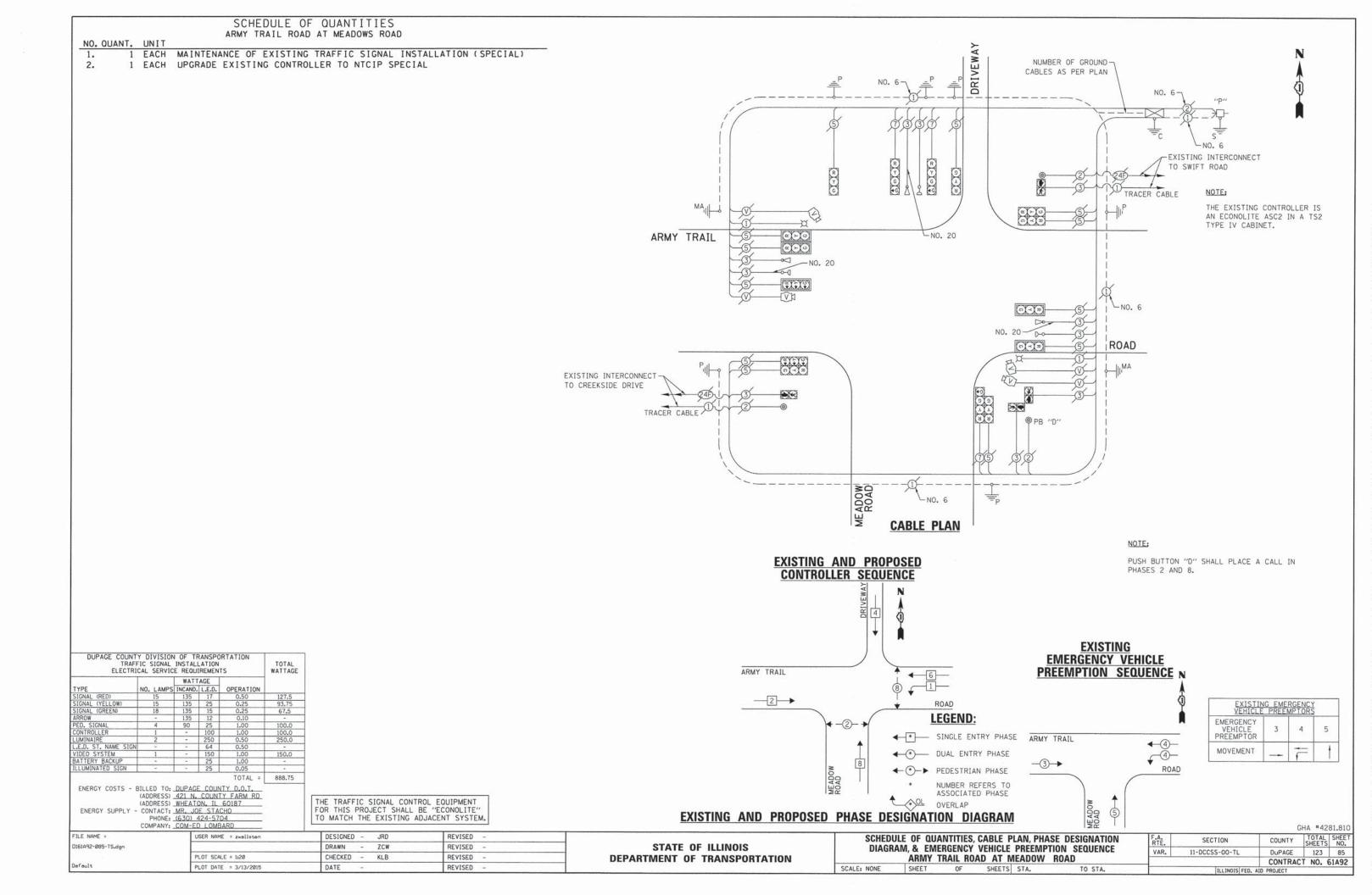


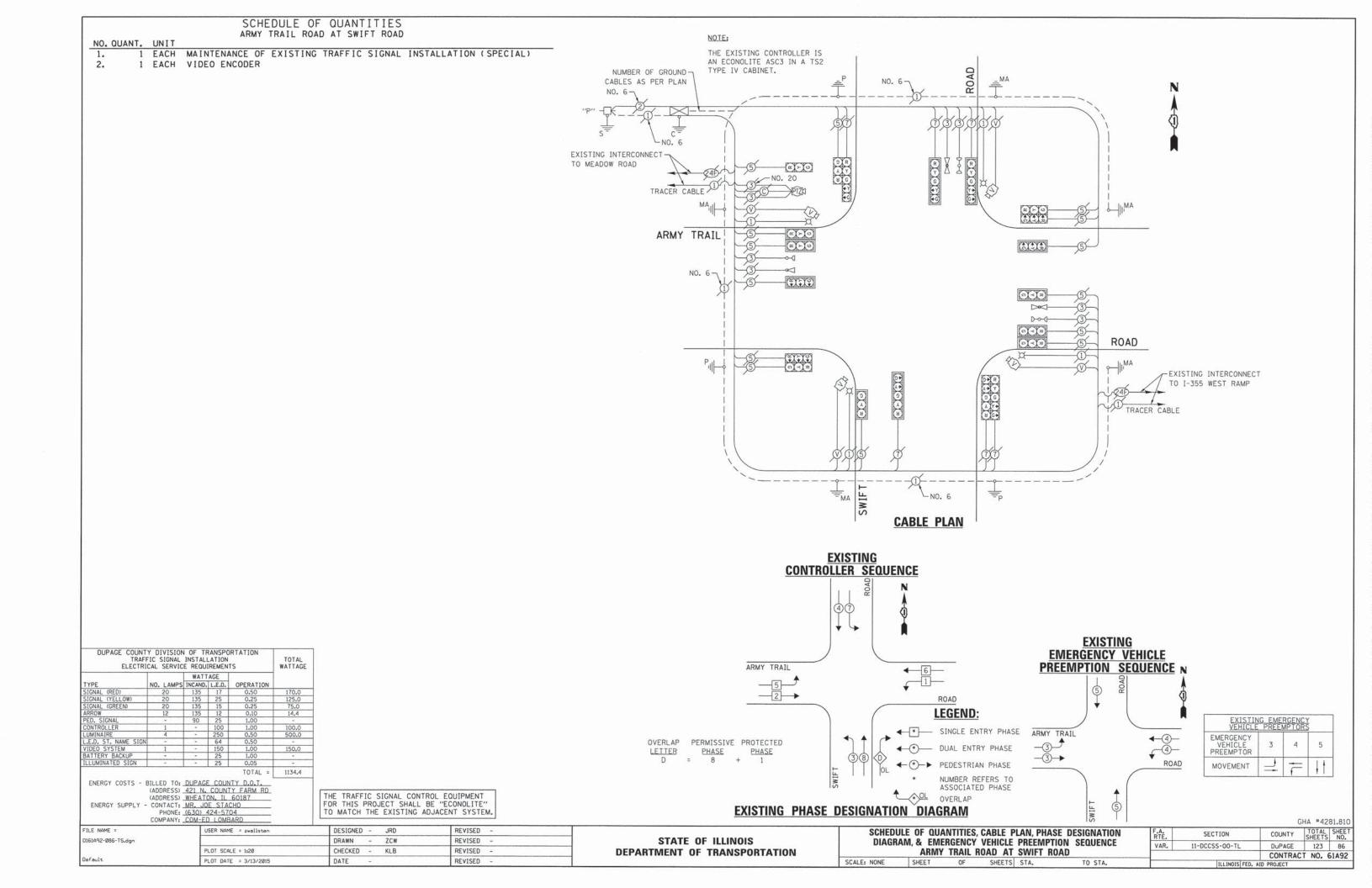


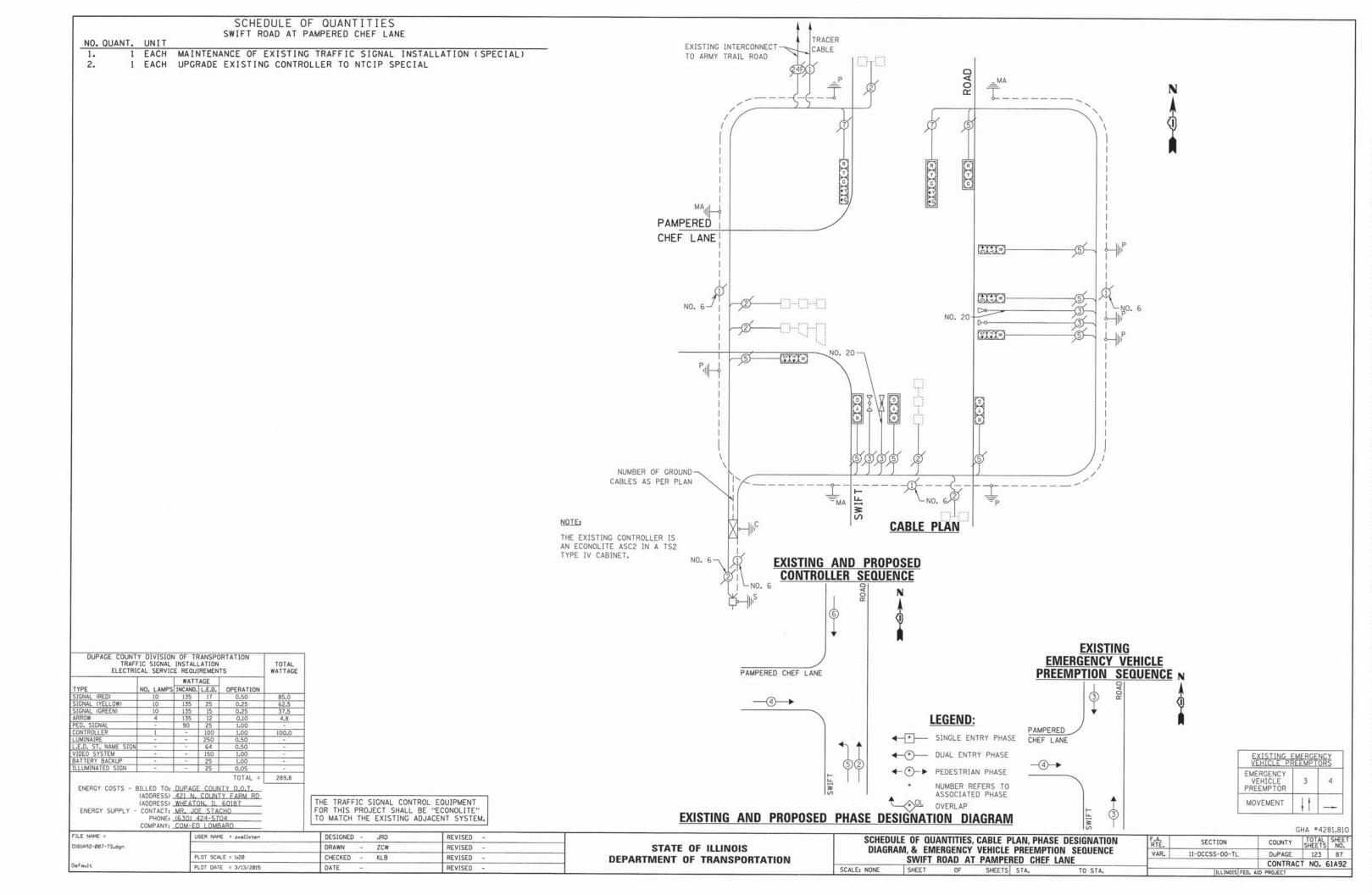




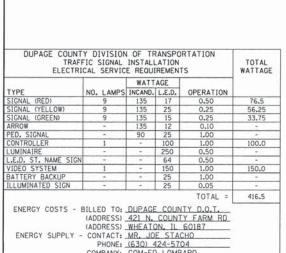








## FOR INFORMATION ONLY



COMPANY: COM-ED LOMBARD

USER NAME = zwallsten

PLOT DATE = 3/13/2015

PLOT SCALE = 1:20

FILE NAME =

161A92-088-TS.dgn

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

ZCW

REVISED -

REVISED

REVISED -

DESIGNED - JRD

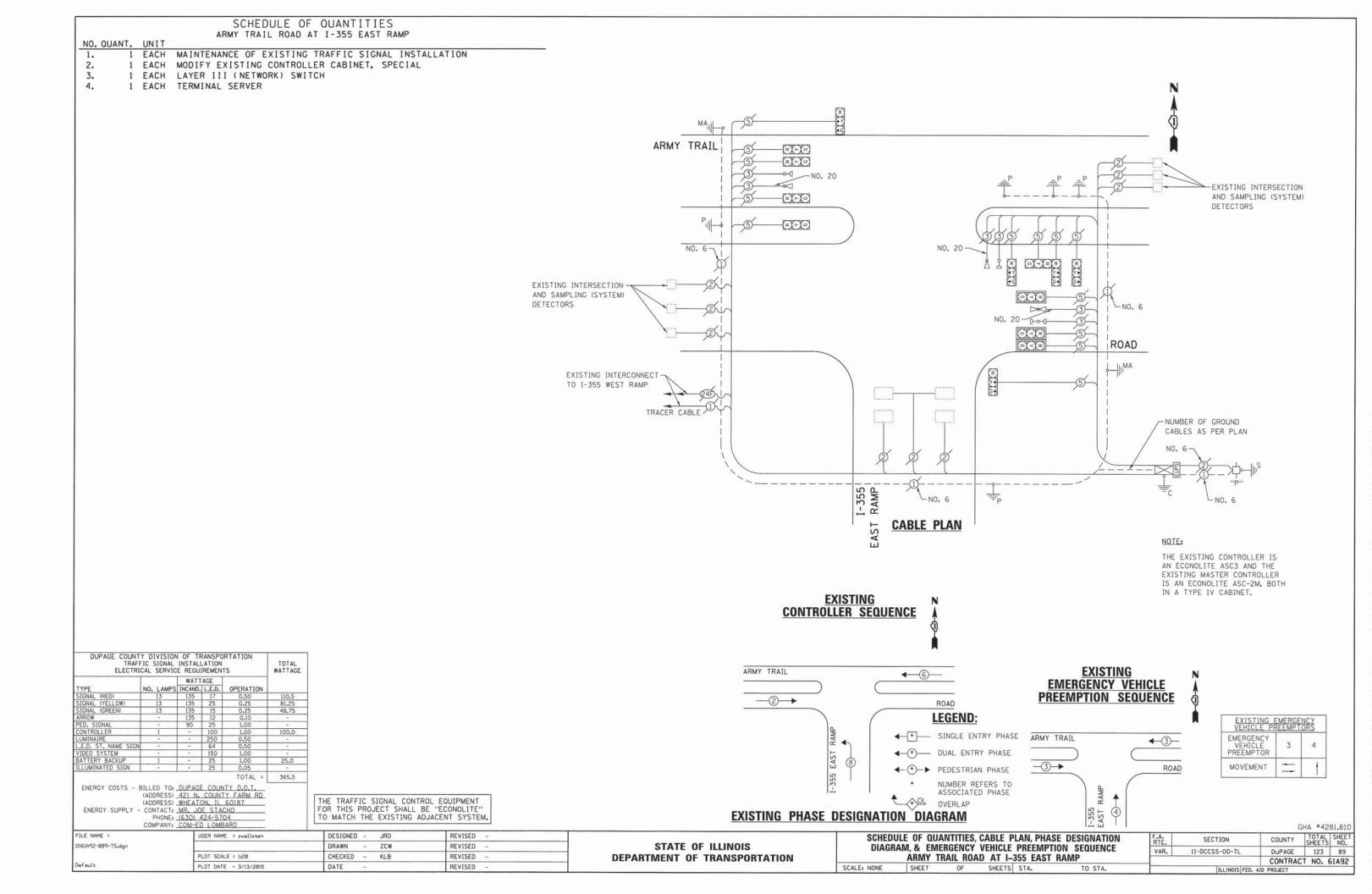
CHECKED - KLB

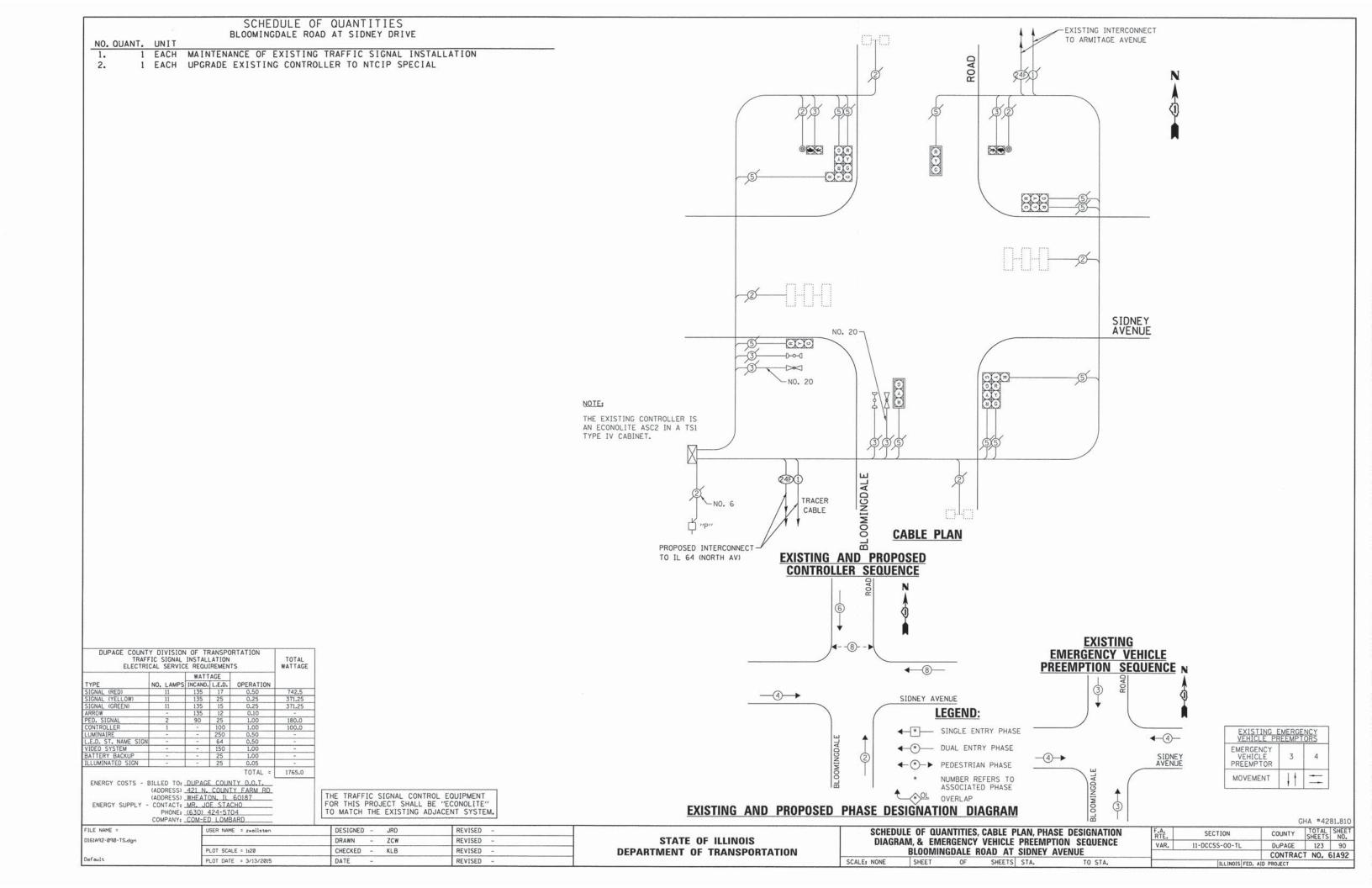
LEGEND: ◆ BUAL ENTRY PHASE ← (\*)-- ▶ PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE OL OVERLAP **EXISTING PHASE DESIGNATION DIAGRAM** 

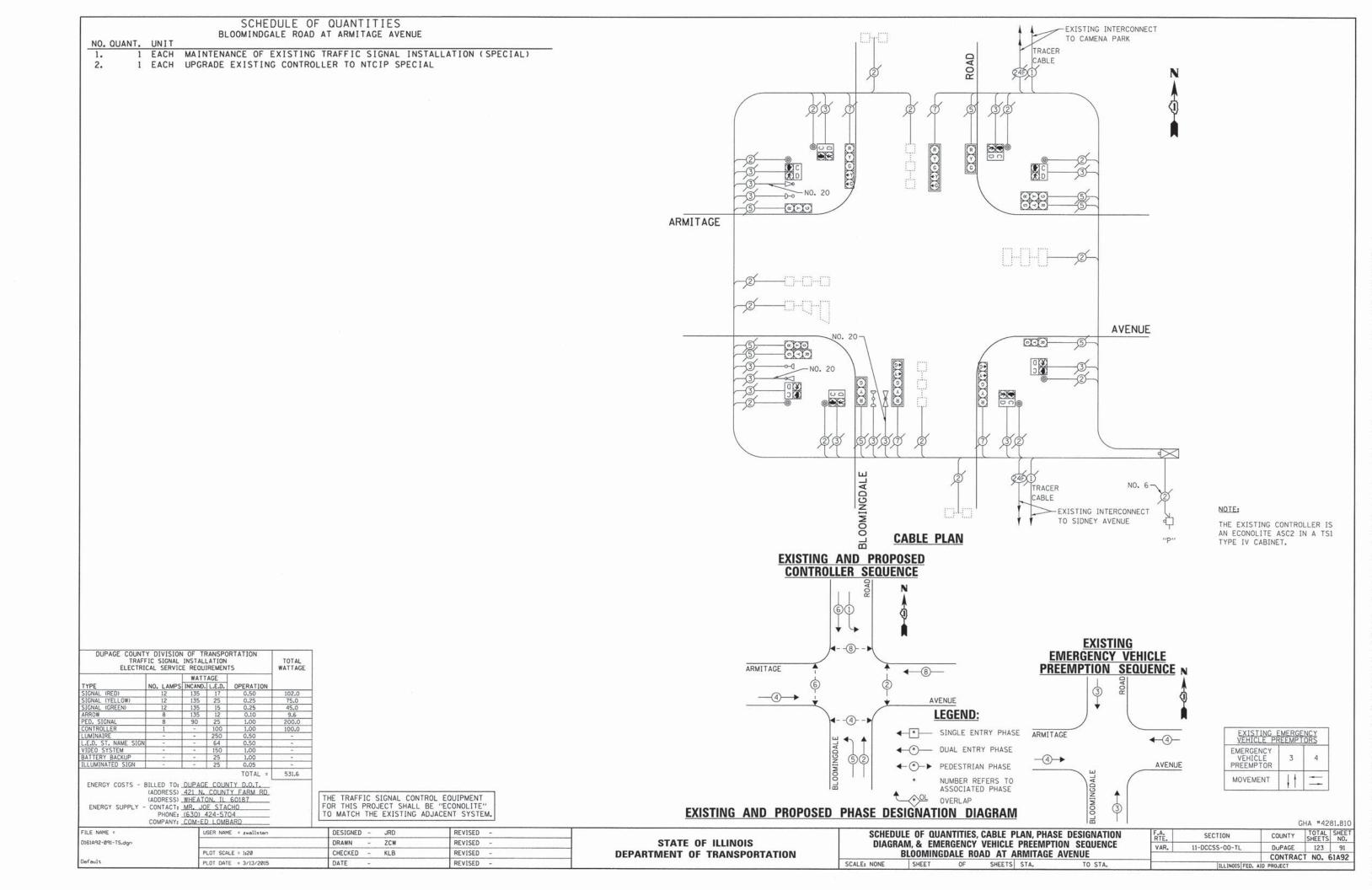
ARMY TRAIL

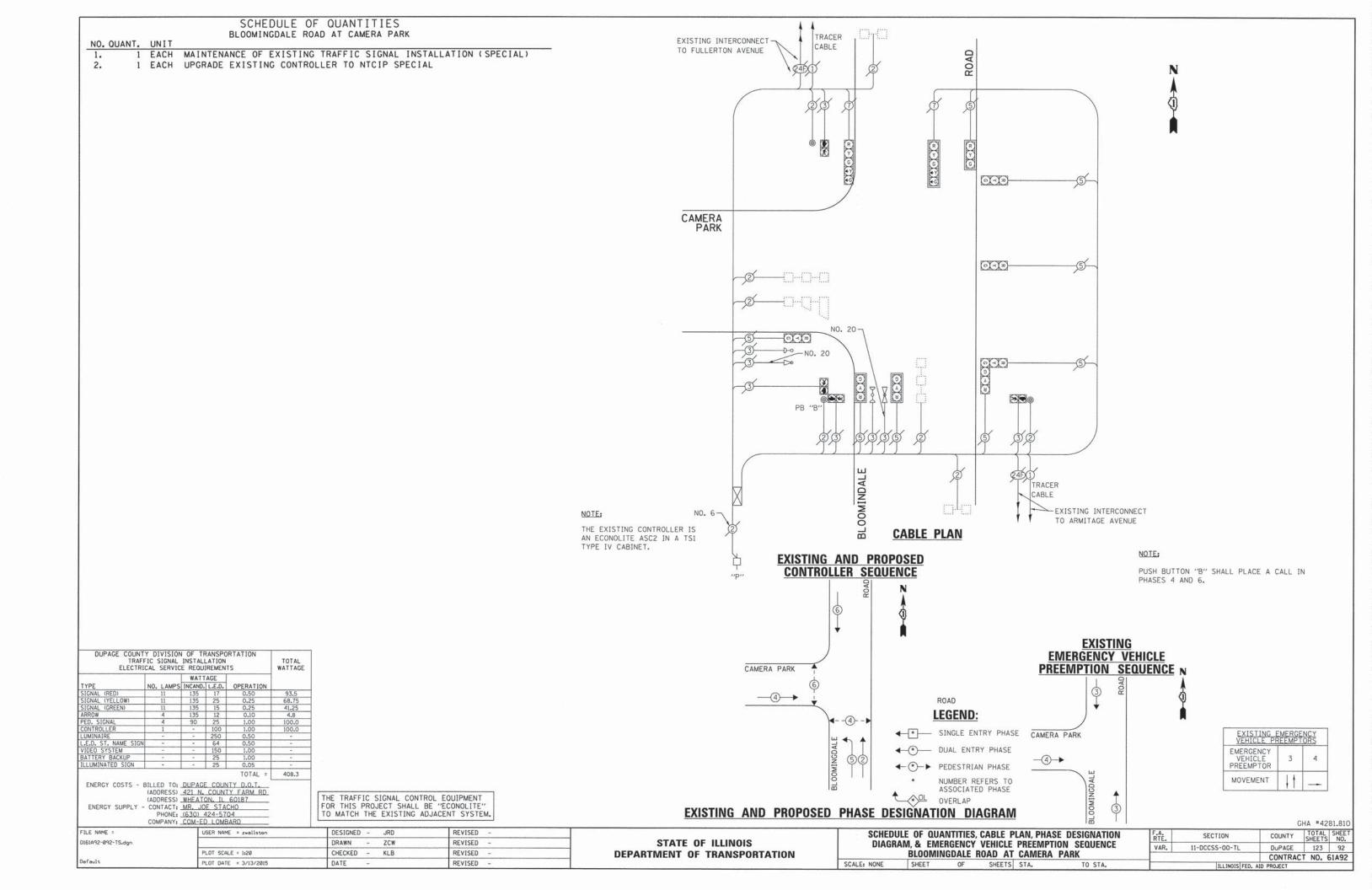
NUMBER OF GROUND -CABLES AS PER PLAN

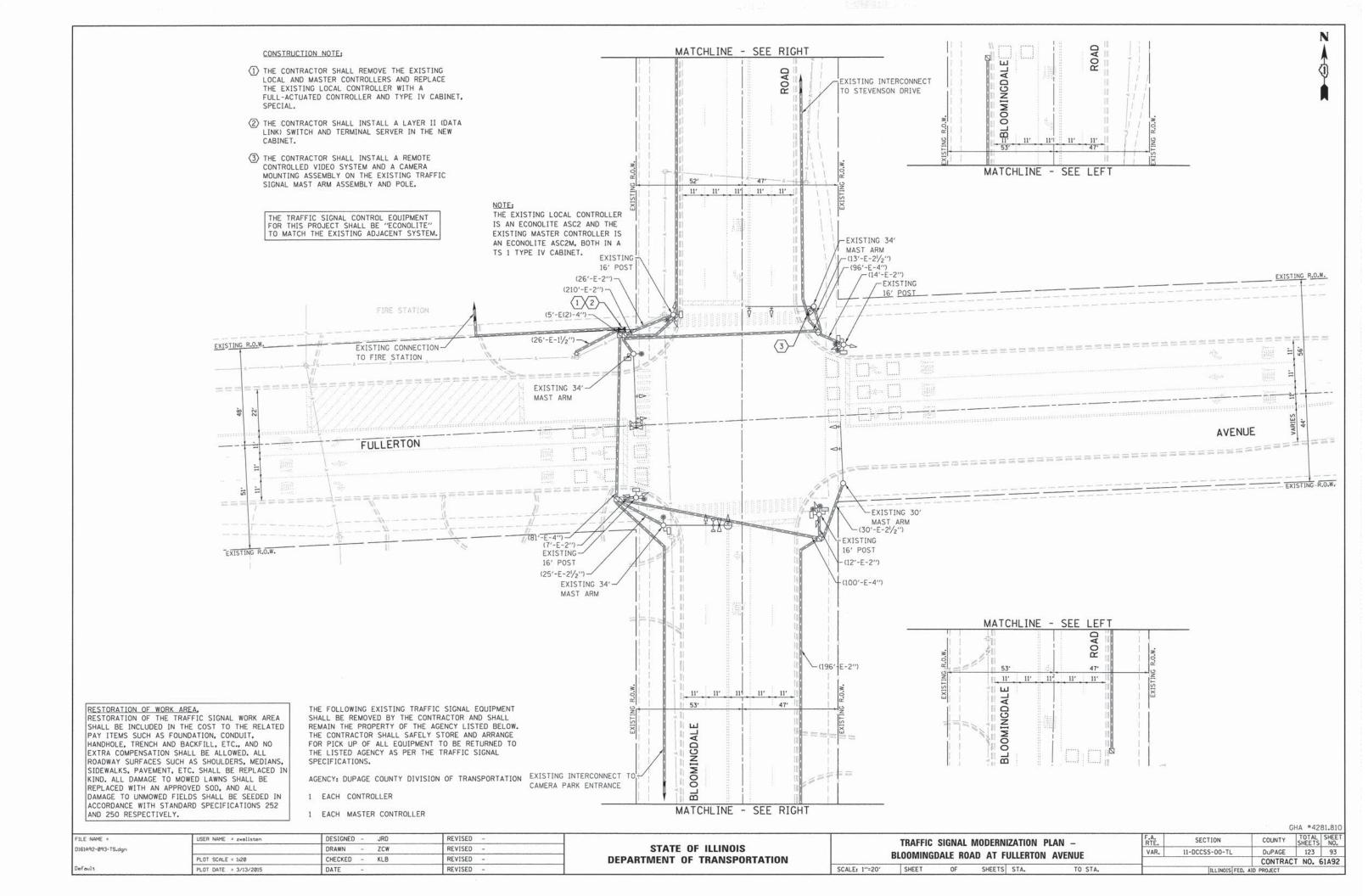
NO. 20-ROAD CABLE PLAN **EXISTING** CONTROLLER SEQUENCE THE EXISTING CONTROLLER IS AN ECONOLITE ASC3 IN A TS2 TYPE IV CABINET. 4 EXISTING EMERGENCY VEHICLE ARMY TRAIL PREEMPTION SEQUENCE N **←**6— ROAD ◆ SINGLE ENTRY PHASE **4**-3)--3→ ROAD MOVEMENT GHA #4281.810 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION SECTION COUNTY STATE OF ILLINOIS DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE VAR 11-DCCSS-00-TL DuPAGE 123 88 **DEPARTMENT OF TRANSPORTATION** ARMY TRAIL ROAD AT I-355 WEST RAMP CONTRACT NO. 61A92 SHEET OF SHEETS STA.

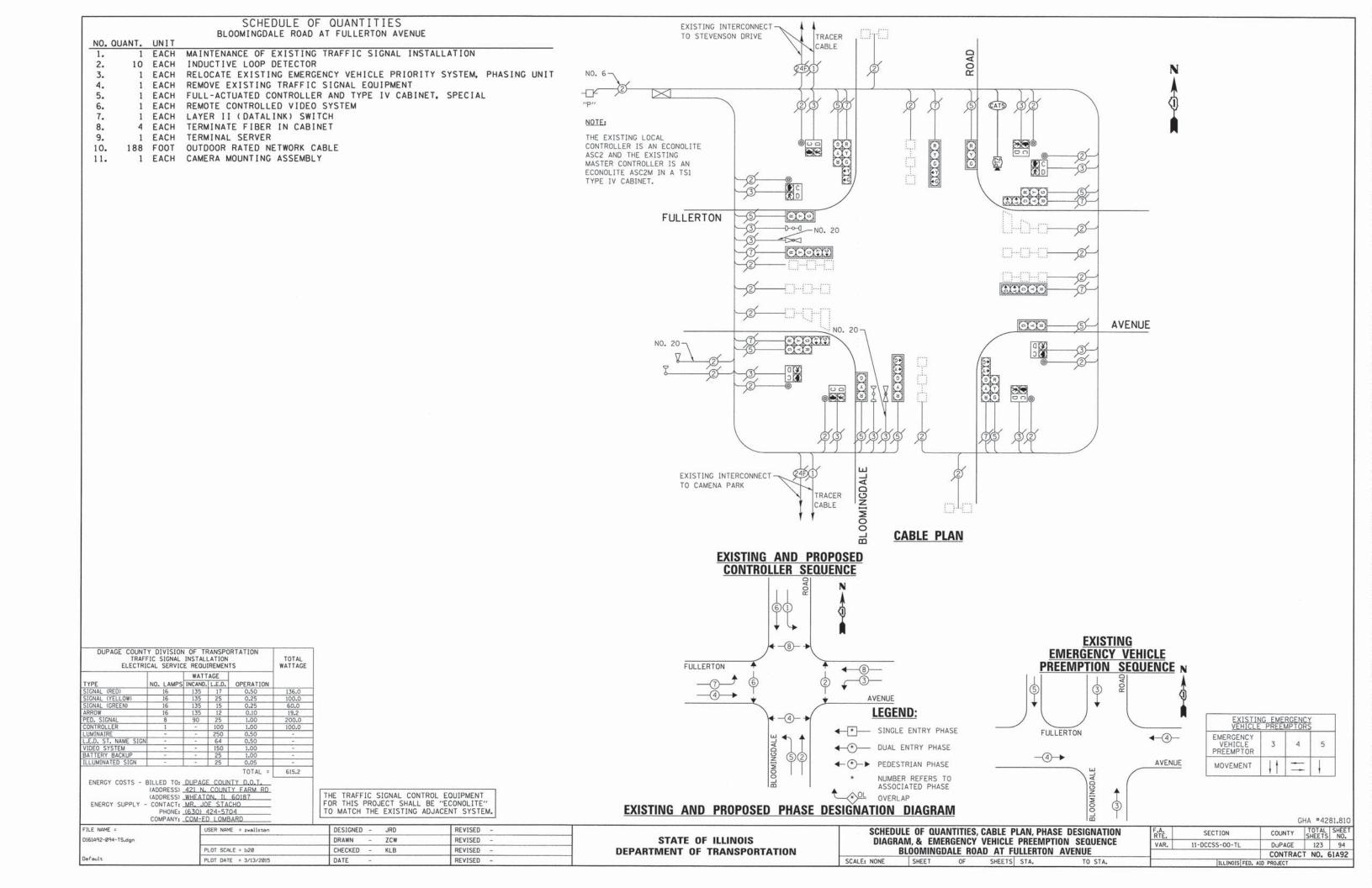


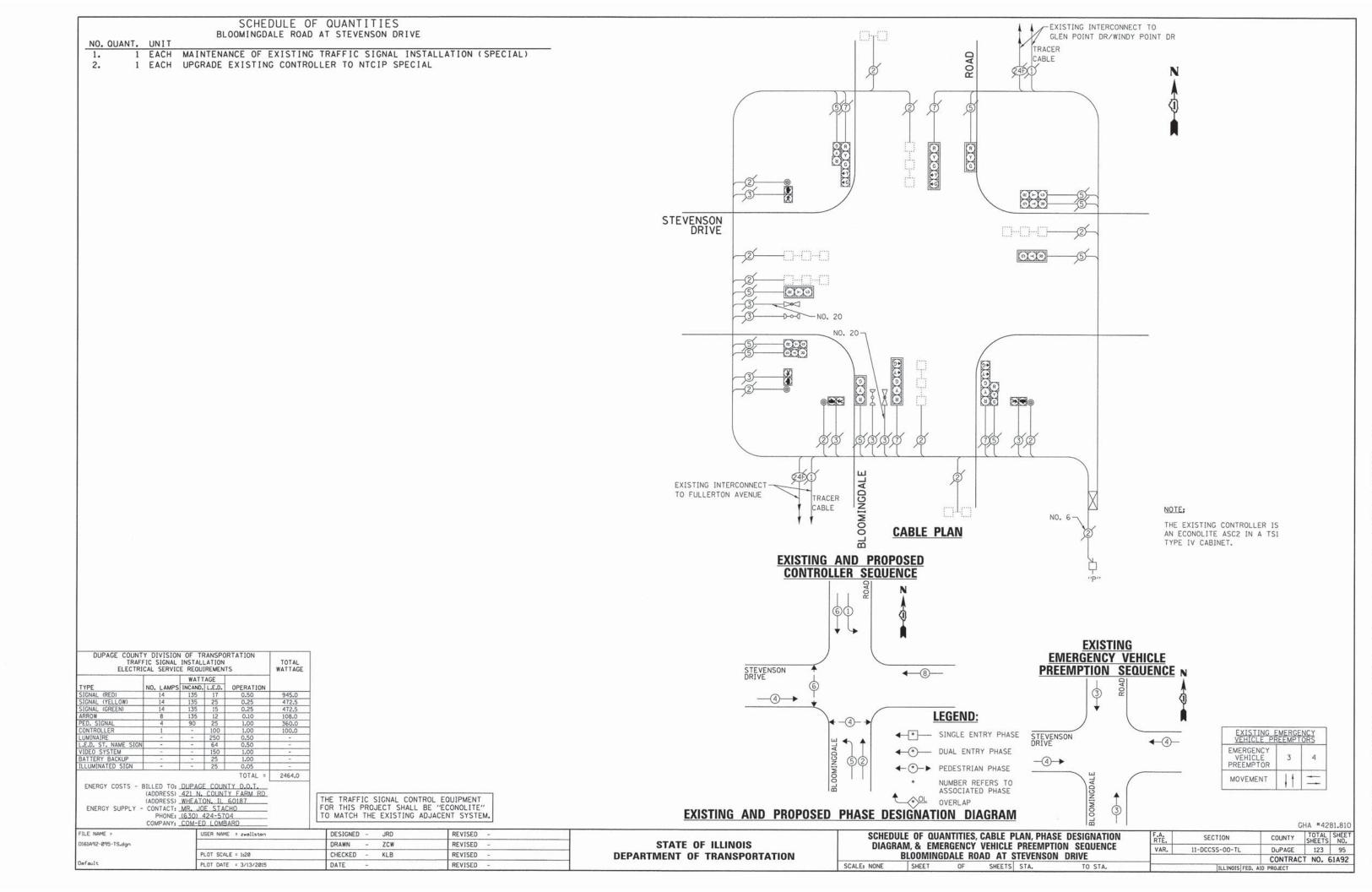


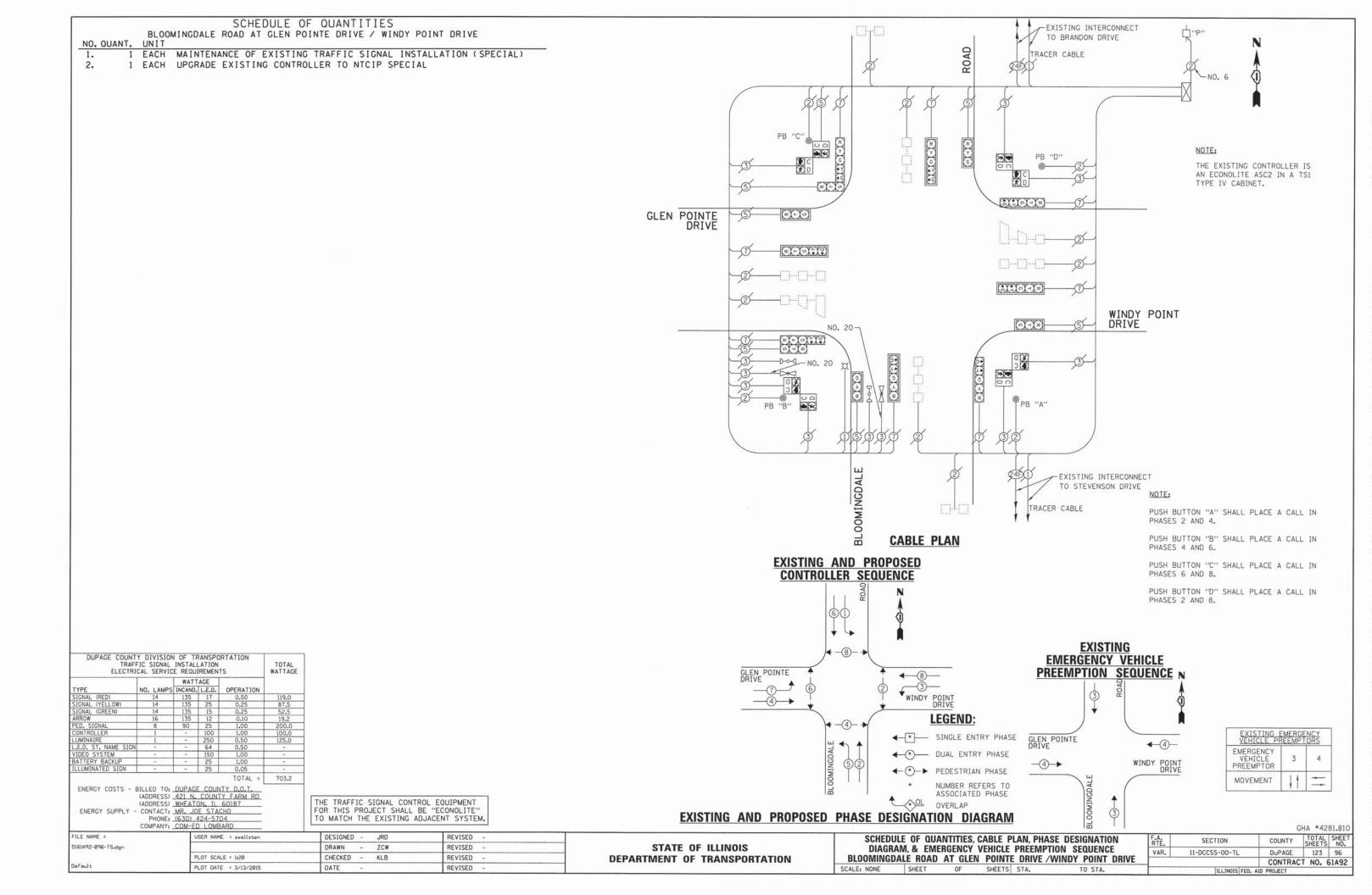


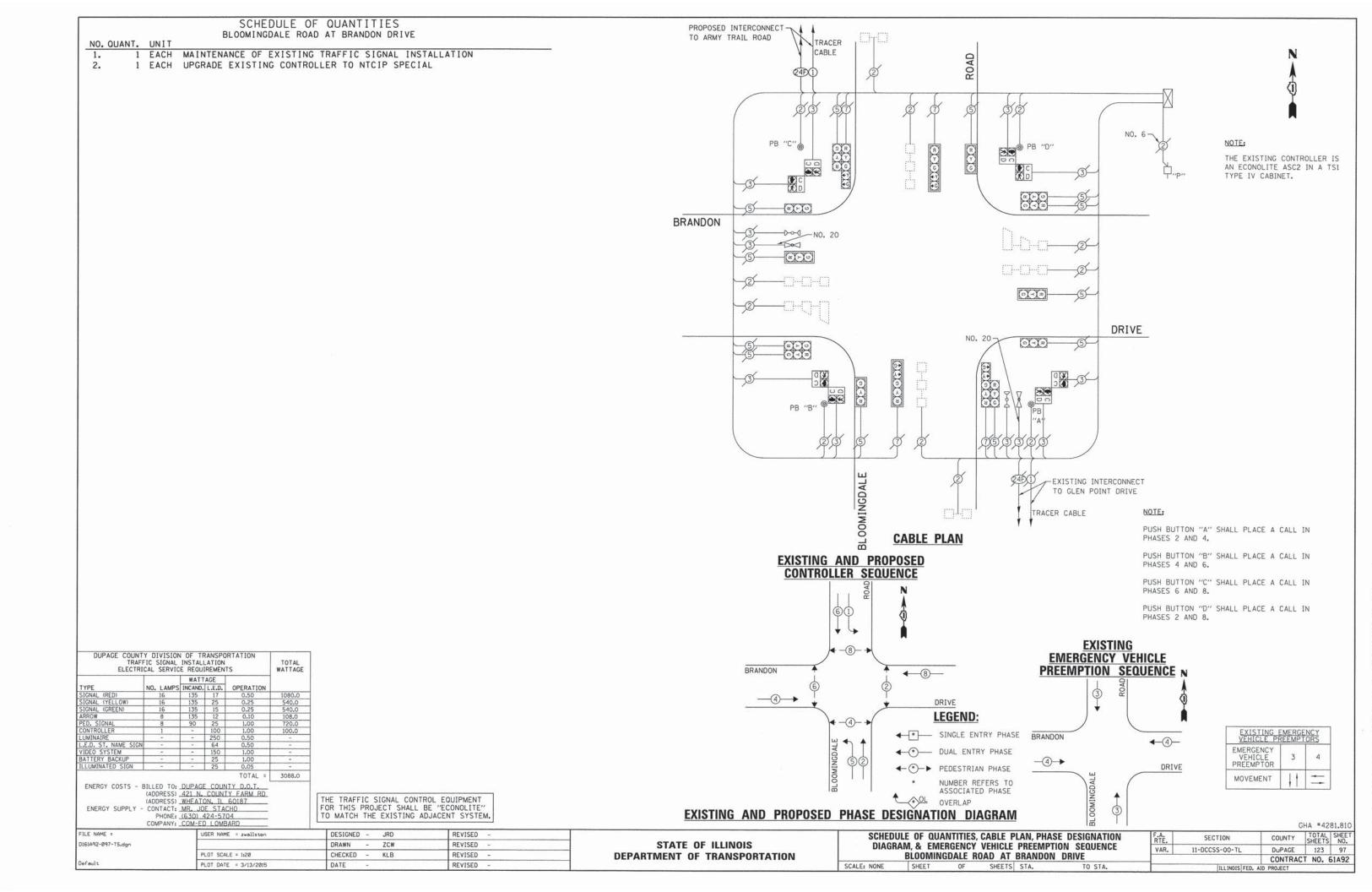












## FOR INFORMATION ONLY

		WATTAGE				
TYPE	NO. LAMPS	INCAND.		OPERATION		
SIGNAL (RED)	10	135	17	0.50	85.0	
SIGNAL (YELLOW)	10	135	25	0.25	62.5	
SIGNAL (GREEN)	10	135	15	0.25	37.5	
ARROW	4	135	12	0.10	4.8	
PED. SIGNAL	4	90	25	1.00	100.0	
CONTROLLER	1		100	1.00	100.0	
LUMINAIRE	2	-	250	0.50	250.0	
L.E.D. ST. NAME SIGN			64	0.50		
VIDEO SYSTEM	-		150	1.00	+	
BATTERY BACKUP	- G-	-	25	1.00		
ILLUMINATED SIGN	-	- 4	25	0.05	-	

FILE NAME =

D161A92-Ø98-TS.dgn

ENERGY COSTS - BILLED TO: DUPAGE COUNTY D.O.T.

(ADDRESS) 421 N. COUNTY FARM RD.

(ADDRESS) WHEATON, IL 60187

ENERGY SUPPLY - CONTACT: MR. JOE STACHO PHONE: (630) 424-5704

PLOT SCALE = 1:20

PLOT DATE = 3/13/2015

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

KLB

CHECKED -

DESIGNED - JRD

REVISED -

REVISED

REVISED

ELL TRACER CABLE EXISTING INTERCONNECT -TO WINDY POINT DRIVE **CABLE PLAN EXISTING CONTROLLER SEQUENCE** EXISTING EMERGENCY VEHICLE -4-GREGORY PREEMPTION SEQUENCE N AVENUE LEGEND: EMERGENCY VEHICLE PREEMPTOR DUAL ENTRY PHASE MOVEMENT ← (\*)- ▶ PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE **EXISTING PHASE DESIGNATION DIAGRAM** GHA #4281.810 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION SECTION COUNTY STATE OF ILLINOIS DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE VAR. 11-DCCSS-00-TL DuPAGE 123 98 **DEPARTMENT OF TRANSPORTATION** GLEN ELLYN ROAD AT GREGORY AVENUE CONTRACT NO. 61A92 SHEET SHEETS STA. OF

-EXISTING INTERCONNECT TO ARMY TRAIL ROAD

**TEE** 

THE EXISTING CONTROLLER IS AN ECONOLITE ASC3 IN A TS2 TYPE IV CABINET.

NUMBER OF GROUND-CABLES AS PER PLAN

> GREGORY AVENUE

