FOR INDEX OF SHEETS, SEE SHEET NO. 2

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

### RR INTERCONNECT 2021 ILLINOIS CONTRACT NO. 76P47

VARIOUS \*\* VARIOUS \*\*\* MADISON / ST CLAIR

D-98-052-21

**PROPOSED** HIGHWAY PLANS

**VARIOUS ROUTES** 

**SECTION: RR INTERCONNECT 2021** 

PROJECT: NHPP-STP-8KDX(507)

TRAFFIC SIGNAL UPGRADE

MADISON / ST. CLAIR COUNTY

C-98-083-21 LOCATION 1 UNION PACIFIC FRA CROSSING #294504L NORFOLK SOUTHERN FRA CROSSING #327937M US ROUTE 67 & RIDGE ST EDWARDSVILLE ALTON, IL 255 **NOT TO SCALE** LOCATION 2 UNION PACIFIC 70 FRA CROSSING #294503E **NORFOLK SOUTHERN** FRA CROSSING #327936F GRANITE CITY US ROUTE 67 & HENRY ST LOCATION #4 ALTON, IL FRA CROSSING #546538E US ROUTE 40 & DOUGLAS ST **MADISON COUNTY** ST JACOB, IL ST. CLAIR COUNTY LOCATION 3 SAUGET NORFOLK SOUTHERN FRA CROSSING #724595J 3 159 LEBANON AVE & WEST BLVD BELLEVILLE, IL CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS BELLEVILLE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION OF SECTION INDICATED THUS: - -

PROJECT ENGINEER : GELIN, HERVE

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD **ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT** 

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS

SQUAD LEADER : PRESTON, MICHAEL

CONTRACT NO. 76P47

1-800-892-0123 OR 811

3/16/2021

062-05677

License Expires 11/30/2021 MY SEAL APPLIES TO SHEETS: 1-15

FUHRMANN Phone: (618) 855-8000 ENGINEERING Illinois Professional Design Firm WWW. FUHRMANN-ENG.COM

1022 Eastport Plaza Drive Collinsville, Illinois 62234

LOCATION MAP

PLANS PREPARED BY

No. 184-003252 License Expires 4/30/2021



License Expires 11/30/2021 MY SEAL APPLIES TO SHEETS: 16-19 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. - MS

#### INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, INDEX OF SHEETS, AND HIGHWAY STANDARDS
- SUMMARY OF QUANTITIES

LOCATION 1 - US 67 & RIDGE ST (ALTON)
NORFOLK SOUTHERN FRA CROSSING #327937M
UNION PACIFIC FRA CROSSING #294504L

- 4 TRAFFIC SIGNAL MODIFICATION PLAN
- 5 TRAFFIC SIGNAL CABLE PLAN
- 6 TRAFFIC SIGNAL SEQUENCE OF OPERATION
- 7 RAILROAD PREEMPTION SEQUENCE OF OPERATION

  LOCATION 2 US 67 & HENRY ST (ALTON)

  NORFOLK SOUTHERN FRA CROSSING #327936F

  UNION PACIFIC FRA CROSSING #294503E
- 8 TRAFFIC SIGNAL MODIFICATION PLAN
- 9 TRAFFIC SIGNAL CABLE PLAN
- 10 TRAFFIC SIGNAL SEQUENCE OF OPERATION
- 11 RAILROAD PREEMPTION SEQUENCE OF OPERATION

  LOCATION 3 LEBANON AVE & WEST BLVD (BELLEVILLE)

  NORFOLK SOUTHERN FRA CROSSING #724595J
- 12 TRAFFIC SIGNAL MODIFICATION PLAN
- 13 TRAFFIC SIGNAL CABLE PLAN
- 14 TRAFFIC SIGNAL SEQUENCE OF OPERATION
- 15 RAILROAD PREEMPTION SEQUENCE OF OPERATION

  LOCATION 4 US 40 & DOUGLAS ST (ST JACOB)

  CSX FRA CROSSING #546538E
- 16 TRAFFIC SIGNAL MODIFICATION PLAN
- 17 TRAFFIC SIGNAL CABLE PLAN
- 18 TRAFFIC SIGNAL SEQUENCE OF OPERATION
- 19 RAILROAD PREEMPTION SEQUENCE OF OPERATION

#### HIGHWAY STANDARDS

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS

#### GENERAL NOTES

- 1 NO WORK SHALL COMMENCE UNTIL THE PROPOSED TRAFFIC CONTROL IS IN PLACE AND HAS BEEN APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 3 ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY. ACCORDING TO THE ARTICLE 202:30 OF THE STANDARD SPECIFICATION AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE COSTS OF THE UNDERGROUND CONDUIT.
- 4 THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. REDUCED SIZE PLANS CAN BE PRINTED TO SCALE FOR USE IN THE FIELD.
- 5 NS RAILROAD AND UP RAILROAD FLAGGERS SHALL BE PRESENT WHEN WORKING WITHIN 25' OF THE RAILROAD TRACKS. THE CONTRACTOR SHALL COORDINATE WITH NS OR THE UP RAILROAD TO ASSURE FLAGGERS ARE PRESENT DURING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 6 EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM THE LOCAL AGENCIES, OWNERS, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITH THE LIMITS OF IMPROVEMENTS.
- 7 THE CONTRACTOR SHALL COORDINATE WITH NS FOR RIGHT OF ENTRY PERTAINING TO WORK WITHIN RAILROAD R.O.W.
- 8 THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- 9 THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUBCONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 10 MEMBERS OF J.U.L.I.E CALL TOLL FREE (800) 892-1023 OR 811, NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- 11 ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING, FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.

THE FOLLOWING UTILITIES ARE KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA AS FOLLOWS:

LOCATION 1 US ROUTE 67 & RIDGE STREET		LOCATION 3 LEBANON AVENUE & WEST BOULEVARD	
AMEREN ILLINOIS CITY OF ALTON ATT CHARTER COMMUNICATIONS IL AMERICAN WATER - ALTON SANITARY IL AMERICAN WATER - ALTON WATER WANRACK LLC WOOD RIVER DRAINAGE & LEVEE DISTRICT	GAS & ELECTRIC LIGHTING & SEWER PHONE CABLE TV SEWER WATER PHONE SEWER	ADB COMPANIES  AMEREN ILLINOIS  ATT  CITY OF BELLEVILLE  CHARTER COMMUNICATIONS  CLEARWAVE COMMUNICATIONS  FIDELITY COMMUNICATION SERVICES III  IL AMERICAN WATER - EAST ST LOUIS  WINDSTREAM KDL / MCLEOD USA  MCI / VERIZON  TOWNSHIP OF ST CLAIR	PHONE GAS & ELECTRIC PHONE SEWER CABLE TV PHONE PHONE WATER PHONE PHONE SEWER
LOCATION 2 US 67 & HENRY STREET		LOCATION 4 US 40 & N DOUGLAS STREET	
AMEREN ILLINOIS	GAS & ELECTRIC	AMEREN ILLINOIS	GAS & ELECTRIC

CITY OF ALTON LIGHTING & SEWER ATT PHONE PHONE CHARTER COMMUNICATIONS CABLE TV CHARTER COMMUNICATIONS CABLE TV CLEARWAVE COMMUNICATIONS PHONE IL AMERICAN WATER - ALTON SANITARY SEWER STATE OF ILLINOIS PHONE & FIBER IL AMERICAN WATER - ALTON WATER ELECTRIC, SEWER, WATER, & FIBER WATER CITY OF HIGHLAND WANRACK LLC PHONE HOME TELEPHONE CO PHONE WOOD RIVER DRAINAGE & LEVEE DISTRICT VILLAGE OF ST JACOB SEWER & WATER SEWER

		USER NAME = bschm	DESIGNED -	REVISED -
-	FUHRMANN		DRAWN -	REVISED -
mint	ENGINEERING	PLOT SCALE = 2 0000 / in	CHECKED -	REVISED -
ww	W. FUHRMANN-ENG .COM	PLOT DATE = 3/17/2021	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		
	SCALE: NTS	SHEET 1

INDEX OF SH			F.A. * RTE	SEC <sup>-</sup>	TION		COUNTY	TOTAL SHEETS	SHE
GENERAL NOTES			**	RR INTERCO	NNECT 2	2021	***	19	2
<u>HIGHWAY STAN</u>	IDARDS						CONTRAC	T NO. 70	5P47
OF 1 SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT	NHPP-8KDX(	507)

		SUMMARY OF QUANTITIE	S		80% FED 20% STATE	80% FED 20% STATE
	CODE NO	ITEM	UNIT	TOTAL	TRAFFIC SIGNALS 0021 URBAN MADISON COUNTY	0021 URBAN
	67100100	MOBILIZATION	L SUM	1.00	0.75	0.25
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1.00	1.00	
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1.00		1.00
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.00	0.75	0.25
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1,00	1.00	
*	72000100	SIGN PANEL - TYPE 1	SQ FT	21.50	21.50	
*	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	0.75	0.75	
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	32.00	32.00	
è	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4.00	3.00	1.00
	87301750	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	645.00	607.00	38.00
	89100400	{LLUMINATED SIGN, LED	EACH	14.00	12.00	2.00
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	645.00	607.00	38.00
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	18.00	15.00	3.00
×	X1400214	SPARE RAILROAD, FULL ACTUATED CONTROLLER, SPECIAL	EACH	4.00	3.00	1.00

				CONSTRUC	1.01,1000
	SUMMARY OF QUANTITIE	80% FED 20% STATE	80% FED 20% STATE		
CODE NO	ITEM	UNIT	TOTAL	TRAFFIC SIGNALS	TRAFFIC SIGNALS 0021 URBAN
	The state of the s			III/ADJOGIT GOSITI I	OT SEARCOSMIT
X8571215	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	4.00	3.00	1.00
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	4.00	3.00	1.00
Z0076600	TRAINEES	HOUR	500	500	
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
		1			
<del>-</del>					

\*SPECIALTY ITEM Ø 0042

SCALE: NTS

**★** SPECIALTY ITEM

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ENGINEERING
WWW. FUHRMANN-ENG.COM
PLC

USER NAME = bschm	DESIGNED	REVISED =
	DRAWN	REVISED _
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PLOT DATE = 3/17/2021	DATE	REVISED 4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

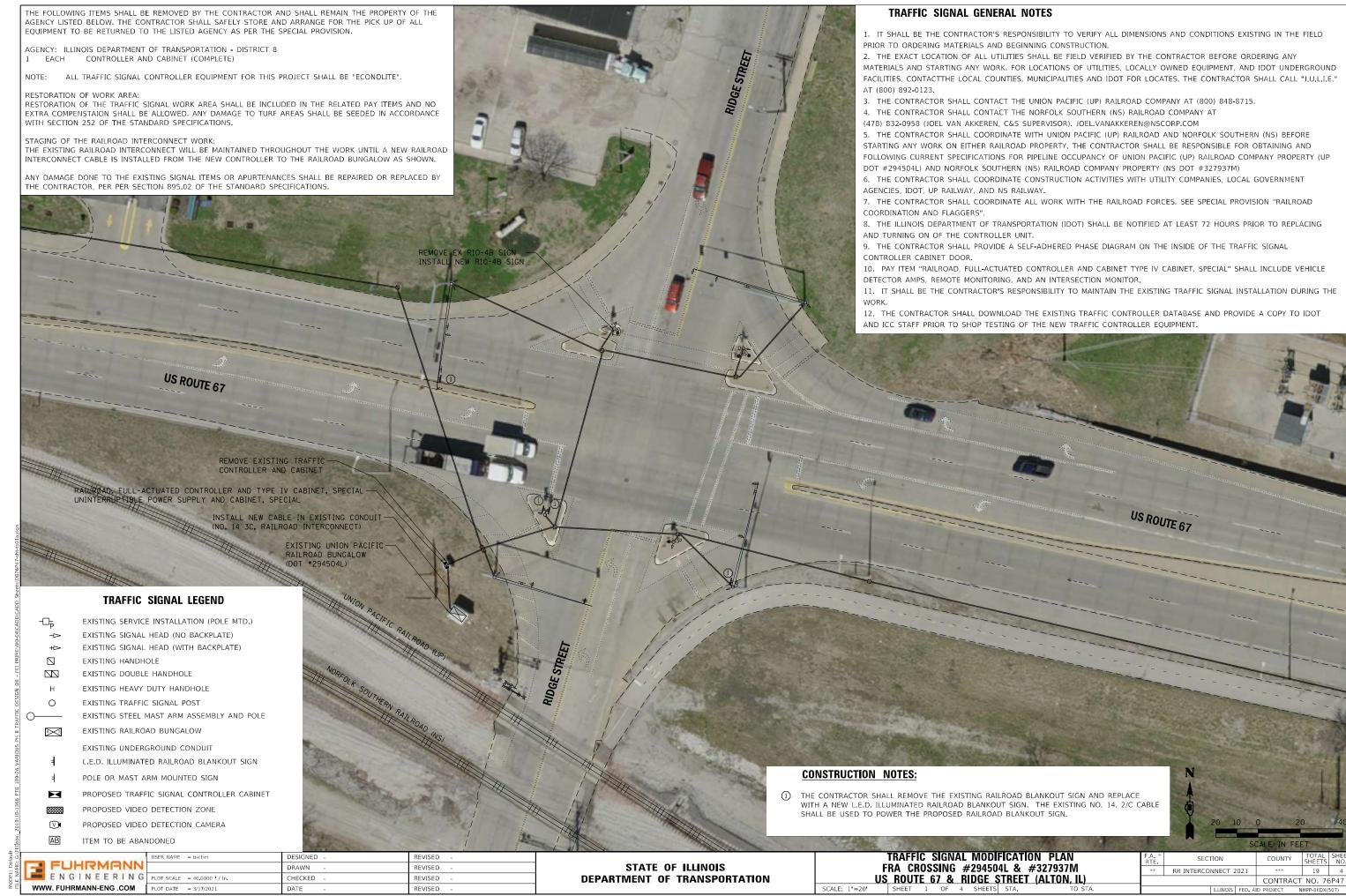
					F.A. * RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUR	ИMARY	OF QU	ANTITIES		**	RR INTERCONNECT 2021	***	19	3
							CONTRACT	NO. 76	6P47
SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS   FED. A	D PROJECT 1	HPP-8KDX(	507)

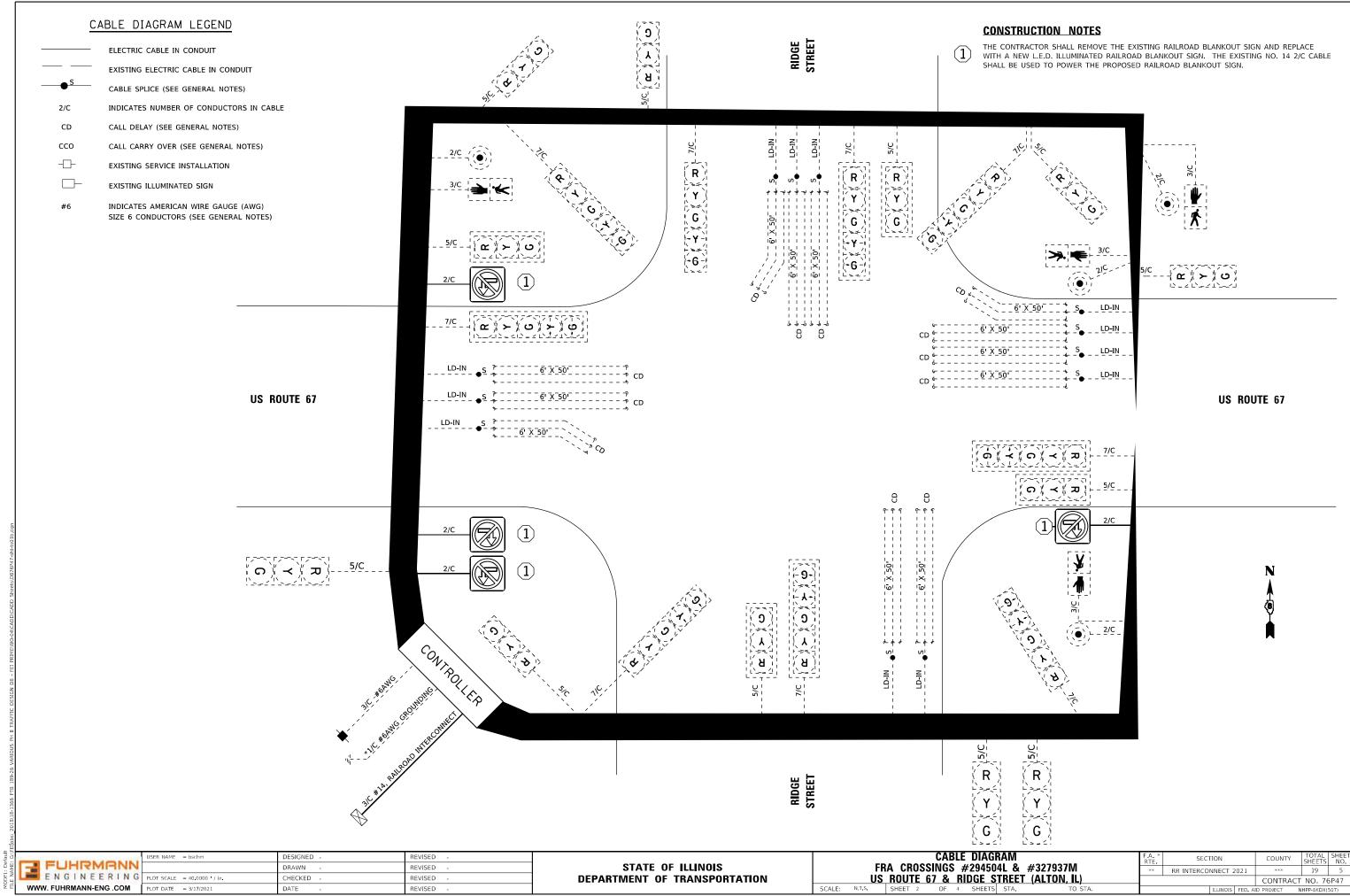
\* VARIOUS \*\*\* VARIOUS \*\*\* MADISON / ST. CLAIR

REV. - MS

CONSTRUCTION CODE

PH II TRAFFIC DESIGN DB - FEI PRIME,WO-04;CADD;CADD She





MOVEMENT (1)			1-	<i>)</i>	<b>,</b> —			‡	<b>-</b> (				<i>→</i> <del> </del> ##	##		) <del></del>	2	- 2			7 +	##	3 	- -			#	·	3 {	ſ ₃ <del> </del> <del> </del>	8	4	7	###	##	<u> </u>	-		\$-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(8)	F L A
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INTERVAL	1	2/	4 2B	ЗА	3В	4A	4B	5	6	7A	7В	8	9A	9В	10	11	12A	128	3 13	144	14B	15A	15B	16A	16B	17	18	19A	19B	20A	20B	21	22A	22E	23 <i>A</i>	23E	23	24	25A	25B	,]
CHANGE TO		2	+ 5	1	+ 6	2	+ 6			2 +	- 6		2 -	+ 6			4 3	+ 7 + 7 + 8 + 8		3	+ 8	4 +	+ 7	1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	+ 6 + 6			2 - 1 -	+ 5 + 5 + 6 + 6	4-	+8		2	+ 5 + 5 + 6 + 6	4	+8			2 -	+ 5 + 5 + 6 + 6	
US ROUTE 67 E/B FAR LEFT AND LEFT MAST ARM SIGNALS	R G	R		R G		R	R	R	R	R	R	G G	G Y		G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
US ROUTE 67 E/B NEAR RIGHTS AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	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	R	R	R
US ROUTE 67 W/B FAR LEFT AND LEFT MAST ARM SIGNALS	R G	R			R	R Y	R	G G ★	G G ▼	Υ	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
US ROUTE 67 W/B NEAR RIGHTS AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	G	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
RIDGE STREET N/B FAR LEFT AND LEFT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R G <b>→</b>	R	R G	R Y →	R	R <del>Y</del>	R	G G →		Y	R	G Y	G	R	R	R	R	R	G	G	Y	R	R
RIDGE STREET N/B NEAR RIGHTS AND RIGHT MAST ARM 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	R	G	G	Y	R	G	G	R	R	R	R	R	G	G	Y	R	R
RIDGE STREET S/B FAR LEFT AND LEFT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R G <del>▼</del>	R		R G	R G <b>†</b>	R <u>Y</u>		R	R	R	R	R	R	G G ₹	Y	R	G Y	G	G	G	Y	R	R
RIDGE STREET S/B NEAR RIGHTS AND RIGHT MAST ARM 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	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING US 67 ON EAST LEG	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	I	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	I	Н	Н	Н	*P	**FF	Н	Н	Н	Н	Н	Н	Н	Н	Н	*P	**FF	н	Н	- DARK
PEDESTRIAN SIGNALS CROSSING RIDGE STREET ON NORTH LEG	Н	Н	Н	Н	Н	Н	Н	*P	**FH	Н	Н	Н	Н	Н	*P	**FF	H H	Н	Н	Н	Н	H	Н	Н	Н	Н	н	Н	Н	н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

\* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

\*\* "FH" TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAL INTERVAL CLEARANCE

PHASES 2 AND 6 SHALL BE PLACED ON RECALL

	-		-		_		05
- 1						NN	
-						NG	
WW	N. FU	HRM.	INA	N-EN	G.C	MC	PL

USER NAME = bschm	DESIGNED -	REVISED -
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PLOT SCALE = 2.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 3/17/2021	DATE -	REVISED -

					OPERATION #327937M
US	ROUTE	67 &	RIDGE S	TREET	(ALTON, IL)
	SHEET	OF	SHEETS	STA.	TO STA.

F.A. * RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEE NO.
**	RR INTERCON	INECT 2	2021	***	19	6
				CONTRACT	NO. 76	5P47
		ILLINOIS	FED. A	ID PROJECT N	HPP-8KDX(	507)

PREEMPTOR

																	NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		5		8	1	.0	1	.3	1	7	2	1	2	:3					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1L	1M	1N	1P	1R	15	1T	1U	2	3	4	5	CLEAR TO NORMAL
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION NUMBER	1B	2	1D	2	1F	2	1H	2	1M	2	1P	2	15	2	1U	2	3	4	5		SEQUENCE
US ROUTE 67 E/B FAR LEFT AND LEFT MAST ARM SIGNALS	R Y	R	R	R	Y	R	Υ	R	R	R	R	R	R	R	R	R	R	R	R	G G	Δ
US ROUTE 67 E/B NEAR RIGHTS AND RIGHT MAST ARM SIGNALS	R	R	R	R	Υ	R	Υ	R	R	R	R	R	R	R	R	R	R	R	R	G	Δ
US ROUTE 67 W/B FAR LEFT AND LEFT MAST ARM SIGNALS	R Y	R	Y	R	R	R	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	Δ
US ROUTE 67 W/B NEAR RIGHTS AND RIGHT MAST ARM SIGNALS	R	R	Y	R	R	R	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	Δ
RIDGE STREET N/B FAR LEFT AND LEFT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R G	R G	G G	G G	R	R	G	G	G G	Y	R	R	Δ
RIDGE STREET N/B NEAR RIGHTS AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	G	G	R	R	G	G	G	Υ	R	R	Δ
RIDGE STREET S/B FAR LEFT AND LEFT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R Y	R	R	R	Y	R	Υ	R	R	R	R	R	Δ
RIDGE STREET S/B NEAR RIGHTS AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	Υ	R	Υ	R	R	R	R	R	Δ
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	Δ
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	Δ
PEDESTRIAN SIGNALS CROSSING US 67 ON EAST LEG	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	FH	Н	Н	Н	Н	Н	Δ
PEDESTRIAN SIGNALS CROSSING RIDGE STREET ON NORTH LEG	Н	Н	FH	Н	Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Δ

THE RAILROAD PREEMPTION SEQUENCE SHALL BE CAPABLE OF CYCLING BETWEEN PHASES 1+6, 2+6, AND 7 UNTIL PREEMPTION IS TERMINATED

A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AFTER RAILROAD INTERVAL 5 IS TERMINATED

#### NOTES:

- 1. ONCE PREEMPTION HAS BEEN CALLED, THE TRACK CLEAR SIGNAL DISPLAY SHALL APPEAR IMMEDIATELY AFTER ALL NECESSARY VEHICULAR CLEARANCES HAVE BEEN PROVIDED.
- 2. THE RAILROAD PREEMPTION SEQUENCE OF OPERATION SHALL HAVE PRIORITY OVER ALL OTHER SEQUENCES OF OPERATION.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

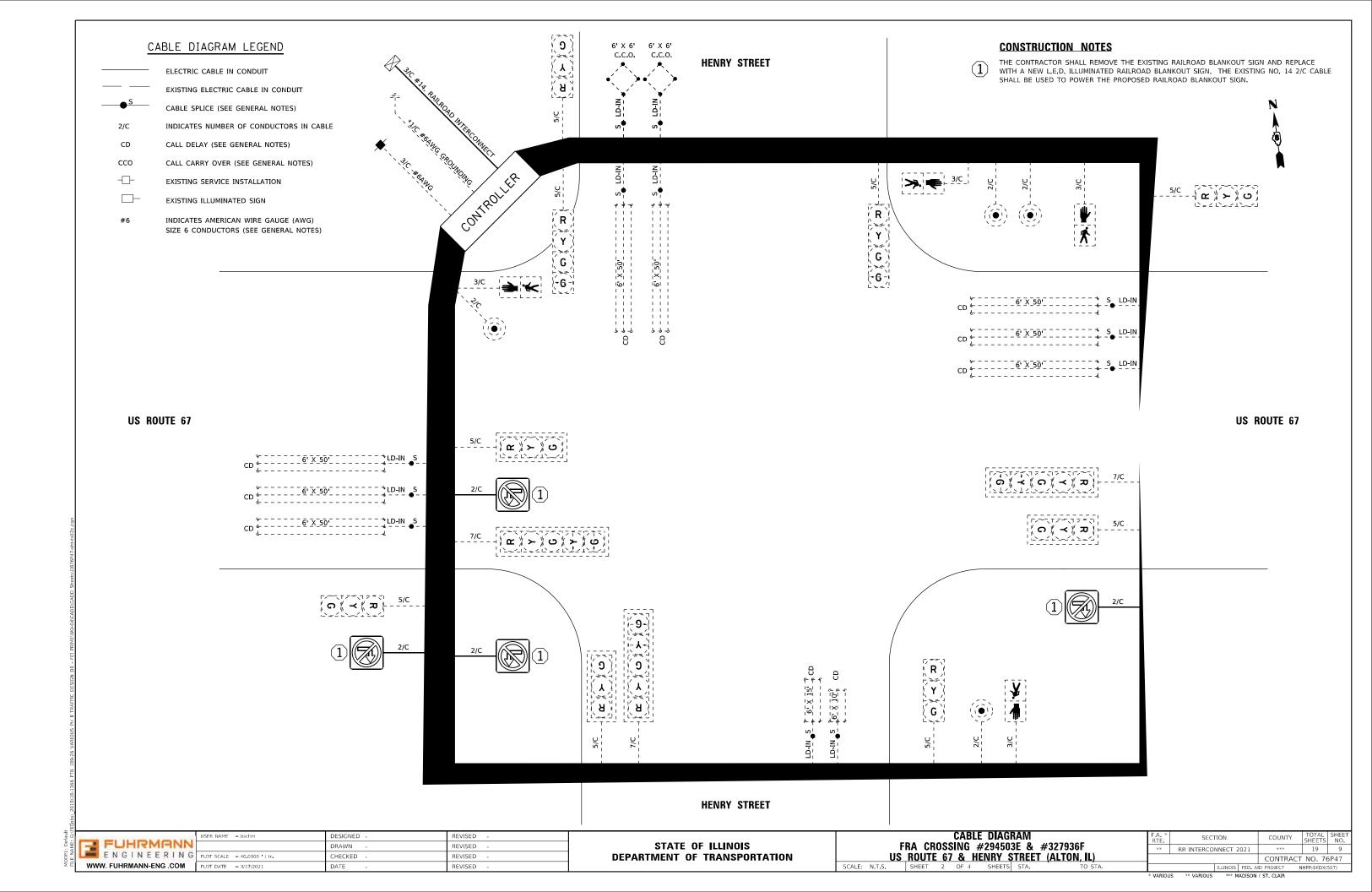
H = ILLUMINATED SOLID HAND = DON'T WALK

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	FUHRMANN	
	ENGINEERING	F
1	WWW. FUHRMANN-ENG .COM	P

USER NAME = bschm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 3/17/2021	DATE -	REVISED -

RAILRO	AD PRE	EMPTIO	N SEOL	IENCE	OF OPERATION	
					327937M	
US	ROUTE	67 & F	RIDGE S'	TREET	(ALTON, IL)	
	SHEET	OF	SHEETS	STA	TO STA.	

TRAFFIC SIGNAL GENERAL NOTES THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE SPECIAL PROVISION. 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. AGENCY: ILLINOIS DEPARTMENT OF TRANSPORTATION - DISTRICT 8 2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY CONTROLLER AND CABINET (COMPLETE) MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, AND IDOT UNDERGROUND NOTE: ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" FACILITIES, CONTACTTHE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "J.U.L.I.E." RESTORATION OF WORK AREA: 3. THE CONTRACTOR SHALL CONTACT THE UNION PACIFIC (UP) RAILROAD COMPANY AT (800) 848-8715. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS AND NO 4. THE CONTRACTOR SHALL CONTACT THE NORFOLK SOUTHERN (NS) RAILROAD COMPANY AT EXTRA COMPENSTAION SHALL BE ALLOWED. ANY DAMAGE TO TURF AREAS SHALL BE SEEDED IN ACCORDANCE WITH SECTION 252 OF THE STANDARD SPECIFICATIONS. (478) 832-0958 (JOEL VAN AKKEREN, C&S SUPERVISOR). JOEL VANAKKEREN@NSCORP.COM 5. THE CONTRACTOR SHALL COORDINATE WITH UNION PACIFIC (UP) RAILROAD AND NORFOLK SOUTHERN (NS) BEFORE STAGING OF THE RAILROAD INTERCONNECT WORK STARTING ANY WORK ON EITHER RAILROAD PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND HENRY STREET THE EXISTING RAILROAD INTERCONNECT WILL BE MAINTAINED THROUGHOUT THE WORK UNTIL A NEW RAILROAD FOLLOWING CURRENT SPECIFICATIONS FOR PIPELINE OCCUPANCY OF UNION PACIFIC (UP) RAILROAD COMPANY PROPERTY (UP INTERCONNECT CABLE IS INSTALLED FROM THE NEW CONTROLLER TO THE RAILROAD BUNGALOW AS SHOWN. DOT #294503E) AND NORFOLK SOUTHERN (NS) RAILROAD COMPANY PROPERTY (NS DOT #327936F) ANY DAMAGE DONE TO THE EXISTING SIGNAL ITEMS OR APURTENANCES SHALL BE REPAIRED OR REPLACED BY 6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT INSTALL NEW R10-4B SIGN-THE CONTRACTOR, PER PER SECTION 895.02 OF THE STANDARD SPECIFICATIONS. AGENCIES, IDOT, UP RAILWAY, AND NS RAILWAY, 7. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE RAILROAD FORCES. SEE SPECIAL PROVISION "RAILROAD INSTALL NEW CABLE IN EXISTING CONDUIT-(NO. 14 3C, RAILROAD INTERCONNECT) COORDINATION AND FLAGGERS" 8. THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO REPLACING AND TURNING ON OF THE CONTROLLER UNIT. INSTALL NEW CABLE IN EXISTING CONDUIT 9. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE TRAFFIC SIGNAL NO. 14 3C, RAILROAD INTERCONNECT) REMOVE EXISTING TRAFFIC 10. PAY ITEM "RAILROAD, FULL-ACTUATED CONTROLLER AND CABINET TYPE IV CABINET, SPECIAL" SHALL INCLUDE VEHICLE CONTROLLER AND CABINET DETECTOR AMPS, REMOTE MONITORING, AND AN INTERSECTION MONITOR. 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING TRAFFIC SIGNAL INSTALLATION DURING THE RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL 12. THE CONTRACTOR SHALL DOWNLOAD THE EXISTING TRAFFIC CONTROLLER DATABASE AND PROVIDE A COPY TO IDOT AND ICC STAFF PRIOR TO SHOP TESTING OF THE NEW TRAFFIC CONTROLLER EQUIPMENT. **US ROUTE 67** INSTALL NEW CABLE IN EXISTING CONDUIT (NO.-14 3C, RAILROAD INTERCONNECT) **US ROUTE 67** EXISTING UNION PACIFIC-RAILROAD BUNGALOW (DOT #294503E) TRAFFIC SIGNAL LEGEND  $-\Box_{\overline{p}}$ EXISTING SERVICE INSTALLATION (POLE MTD.) -> EXISTING SIGNAL HEAD (NO BACKPLATE) +> EXISTING SIGNAL HEAD (WITH BACKPLATE) STALL NEW CABLE IN EXISTING CONDU EXISTING HANDHOLE MEXISTING DOUBLE HANDHOLE EXISTING HEAVY DUTY HANDHOLE 0 EXISTING TRAFFIC SIGNAL POST EXISTING STEEL MAST ARM ASSEMBLY AND POLE R EXISTING RAILROAD BUNGALOW EXISTING NORFOLK SOUTHERN RAILROAD BUNGALOW EXISTING UNDERGROUND CONDUIT (DOT #327936F) HENRY STREET L.E.D. ILLUMINATED RAILROAD BLANKOUT SIGN **CONSTRUCTION NOTES:** POLE OR MAST ARM MOUNTED SIGN ≥ PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET THE CONTRACTOR SHALL REMOVE THE EXISTING RAILROAD BLANKOUT SIGN AND REPLACE WITH A NEW L.E.D. ILLUMINATED RAILROAD BLANKOUT SIGN. THE EXISTING NO. 14, 2/C CABLE PROPOSED VIDEO DETECTION ZONE SHALL BE USED TO POWER THE PROPOSED RAILROAD BLANKOUT SIGN. PROPOSED VIDEO DETECTION CAMERA AB ITEM TO BE ABANDONED TRAFFIC SIGNAL MODIFICATION PLAN DESIGNED FUHRMANN STATE OF ILLINOIS DRAWN REVISED FRA CROSSING #294503E & #327936F RR INTERCONNECT 2021 HECKED REVISED **DEPARTMENT OF TRANSPORTATION** US ROUTE 67 & HENRY STREET (ALTON, IL) CONTRACT NO. 76P47 WWW. FUHRMANN-ENG .COM PLOT DATE = 3/17/2021 REVISED DATE \*\* VARIOUS \*\*\* MADISON / ST. CLAIR



MOVEMENT		- -	1-	· •	,	5			<del></del> -(	<u></u>	2 5	1 - 6 -	<i>→</i> <del>↑</del> <del> </del>	#	6	<del>+</del>		2		<b>→</b>	-    - 	3	4-1	8		F L A
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INTERVAL	1	2A	2B	ЗА	3B	4A	4B	5	6	7A	7В	8	9A	9В	10	11	12A	12B	13	14	14A	14B	15	16A	16B	
CHANGE TO		2 -	+ 5	1 -	+ 6	2 -	+ 6			2 -	+ 6		2 -	+ 6				3 + 8			2 - 1 - 2 -	+ 5 + 5 + 6 + 6 + 8		2 · 1 ·	+ 5 + 5 + 6 + 6	
US ROUTE 67 E/B LEFT MAST ARM SIGNAL	R G	R Y	R	R G	R G	R Y	R	R	R	R	R	G G	G Y	G	G	G	Y	R	R	R	R	R	R	R	R	R
US ROUTE 67 E/B NEAR RIGHT AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	Υ	R	R	R	R	R	R	R	R	R
US ROUTE 67 W/B LEFT MAST ARM SIGNAL	R G	R G	R G	R Y	R	R Y	R	G G	G G	G Y	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R
US ROUTE 67 W/B NEAR RIGHT AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	G	G	G	G	R	R	R	G	G	Υ	R	R	R	R	R	R	R	R	R
HENRY STREET N/B FAR LEFT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G <del>↓</del>	G G ★	Y	R	R	R	R	R
HENRY STREET N/B NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	R	R	R	R
HENRY STREET S/B LEFT 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	G G	Y	R	R
HENRY STREET S/B NEAR RIGHT AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R
PEDESTRIAN SIGNALS CROSSING US 67 ON EAST LEG	н	н	н	Н	Н	н	н	Н	I	Н	н	Н	н	I	н	н	н	Н	*P	**F <b>F</b>	Н	н	Н	н	н	DARK
PEDESTRIAN SIGNALS CROSSING HENRY STREET ON NORTH LEG	Н	н	Н	Н	Н	Н	н	*P	**FH	Н	Н	Н	Н	Н	*P	**FF	Н	н	Н	н	Н	н	Н	Н	Н	DAKK

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

- \* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- \*\* "FH" TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAL INTERVAL CLEARANCE

PHASES 2 AND 6 SHALL BE PLACED ON RECALL

	USER NAME = bschm	DESIGNED -	REVISED -
<b>EUHSWENN</b>		DRAWN -	REVISED -
ENGINEERING	PLOT SCALE = 2 0000 / in	CHECKED -	REVISED -
W. FUHRMANN-ENG .COM	PLOT DATE = 3/17/2021	DATE -	REVISED -

STAT	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

					OPERATION #327936F
US	ROUTE	<b>67 &amp;</b>	HENRY S	TREET	「 (ALTON, IL)
	SHEET	OF			TO STA.

F.A. * RTE	SECT	ΠΟN		COUNTY	TOTAL SHEETS	SHEE NO.
**	RR INTERCO	NNECT 2	2021	***	19	10
				CONTRAC	Γ NO. 70	5P47
		ILLINOIS	FED. A	ID PROJECT	NHPP-8KDX(	507)

														PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		5	5		3	1	10	1	3	1	5					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	14	A 11	В	1C	1D	1E	1F	1G	1H	1L	1M	1N	1P	2	3	4	5	CLEAR TO NORMAL
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION NUMBER	16	3 2	2	1D	2	1F	2	1H	2	1M	2	1P	2	3	4	5		SEQUENCE
US ROUTE 67 E/E LEFT MAST ARM SIGNAL	\	R Y		R	R	Y	R	Υ	R	R	R	R	R	R	R	R	G G	Δ
US ROUTE 67 E/E NEAR RIGHT AND RIGHT MAST ARM SIGNALS	3 R	. R	۱	R	R	Υ	R	Y	R	R	R	R	R	R	R	R	G	Δ
US ROUTE 67 W/E LEFT MAST ARM SIGNAL	3 R			Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	Δ
US ROUTE 67 NEAR RIGHT AND RIGHT MAST ARM SIGNALS	B R	. R		Υ	R	R	R	Υ	R	R	R	R	R	R	R	R	R	Δ
HENRY STREET N/E FAR LEFT AND FAR RIGHT SIGNALS	3 R	R		R	R	R	R	R	R	G G	G G	R	R	G G	Υ	R	R	Δ
HENRY STREET N/E NEAR RIGHT	3 R	. R	1	R	R	R	R	R	R	G	G	R	R	G	Υ	R	R	Δ
HENRY STREET S/E LEFT MAST ARM SIGNAL	3 R	R		R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Δ
HENRY STREET S/E NEAR RIGHT AND RIGHT MAST ARM SIGNALS	3 R	. R	1	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Δ
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS	NL	T NL	т Г	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	Δ						
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	NR	TNF	RT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	Δ						
PEDESTRIAN SIGNALS CROSSING US 67 ON EAST LEG	Н	I	1	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	Δ
PEDESTRIAN SIGNALS CROSSING HENRY STREET NORTH LEG	Н	F	1	FH	Н	Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	Δ

THE RAILROAD PREEMPTION SEQUENCE SHALL BE CAPABLE OF CYCLING BETWEEN PHASES 1+6, 2+6, AND 8 UNTIL PREEMPTION IS TERMINATED

A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AFTER RAILROAD INTERVAL 5 IS TERMINATED

#### NOTES:

- 1. ONCE PREEMPTION HAS BEEN CALLED, THE TRACK CLEAR SIGNAL DISPLAY SHALL APPEAR IMMEDIATELY AFTER ALL NECESSARY VEHICULAR CLEARANCES HAVE BEEN PROVIDED.
- 2. THE RAILROAD PREEMPTION SEQUENCE OF OPERATION SHALL HAVE PRIORITY OVER ALL OTHER SEQUENCES OF OPERATION.

P = ILLUMINATED PERSON = WALK

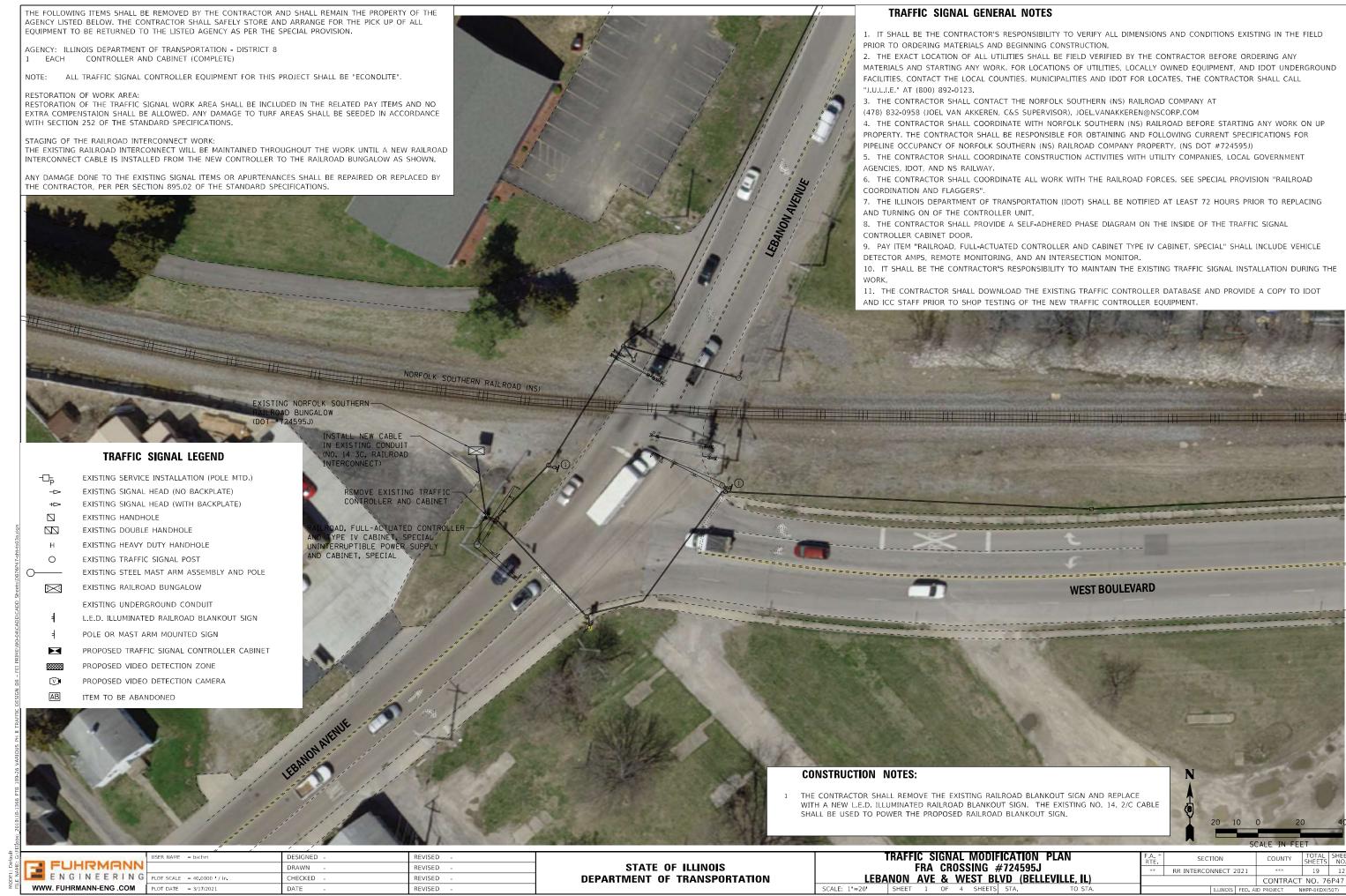
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

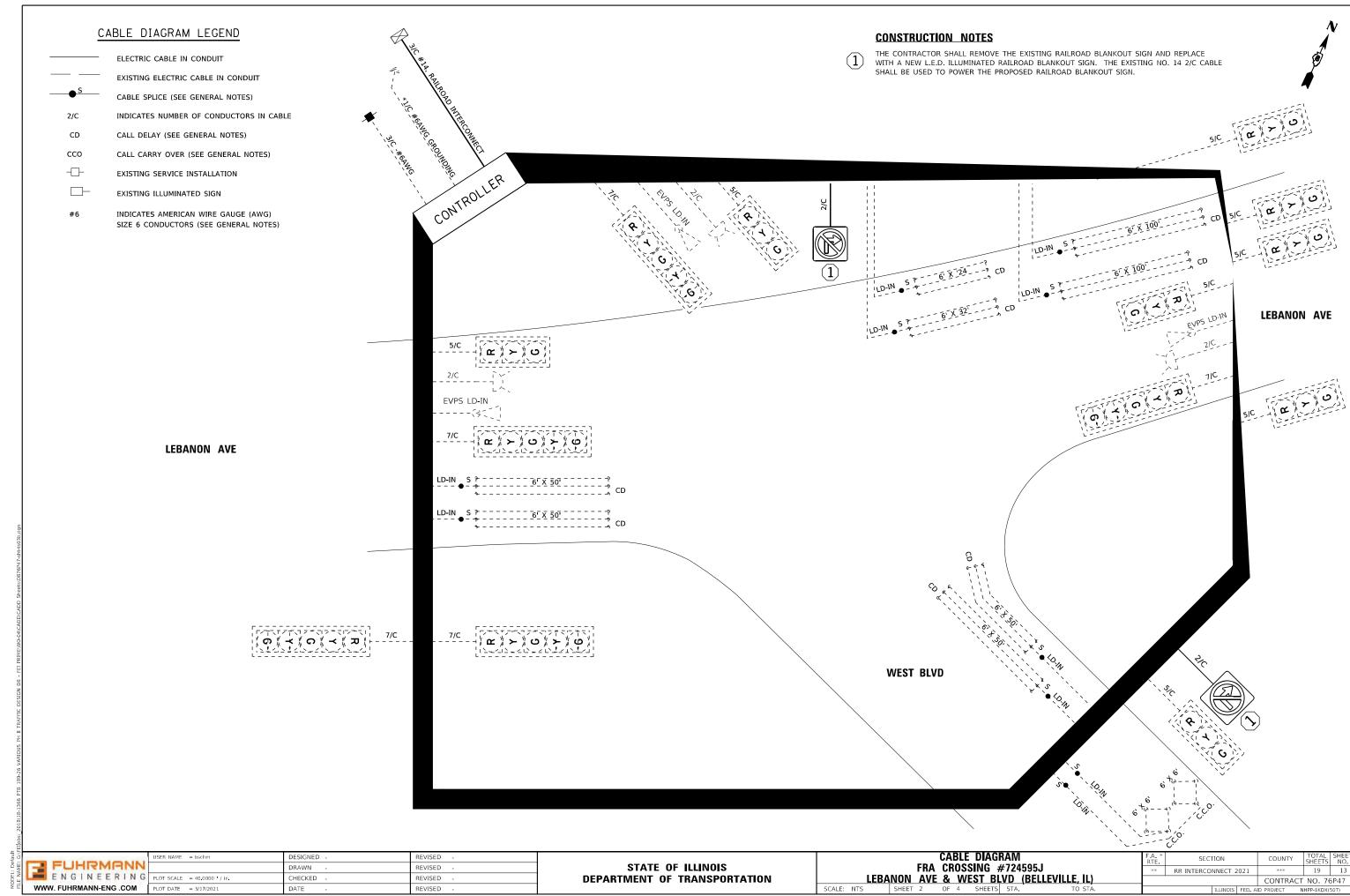
H = ILLUMINATED SOLID HAND = DON'T WALK

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PLOT DATE = 3/17/2021	DATE -	REVISED -

RAILROAD PREEMPTION SEQUENCE OF OPERATION	F.A. * RTE						
FRA CROSSING #294503E & #327936F							
US ROUTE 67 & HENRY ST (ALTON, IL)	, i						
SHEET OF SHEETS STA. TO STA.		_					





\* VARIOUS \*\* VARIOUS \*\*\* MADISON / ST. CLAIR

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INTERVAL		1	2A	2В	3A	3В	3C	3D	4	5A	5B	5C	5D	6	7A	7В	7C	7D	
CHANGE TO			2 -	⊦ 6		4 -	⊦8*	:			4 -	⊦ 8			1 -	+ 6	2 -	+ 6	
LEBANON AVENUE LEFT MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R
LEBANON AVENUE NEAR RIGHT AND RIGHT MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	G G	G G	G G	Y G	R G	R G →	R Y	R	R G	R G	R
LEBANON AVENUE FAR RIGHT, NEAR RIGHT AND MAST ARM SIGNALS (PRE-SIGNAL)	S/B	G	G	G	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R
LEBANON AVENUE FAR LEFT AND LEFT MAST ARM SIGNALS	S/B	G G	G Y <b>→</b>	G	G G	G G	Y	R	G	G	G	Υ	R	R	R	R	R	R	R
LEBANON AVENUE RIGHT MAST ARM SIGNAL	S/B	G	G	G	G	G	Υ	R	G	G	G	Υ	R	R	R	R	R	R	R
WEST BOULEVARD LEFT MAST ARM SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	G G <b></b>	Y	R	Y	R	R
WEST BOULEVARD NEAR RIGHT AND RIGHT MAST ARM SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	Υ	R	R

#### EMERGENCY VEHICLE PREEMPTION SEQUENCE

PREEMPTOR 3 = PHASES 1 AND 6

PREEMPTOR 4 = PHASE 2

PREEMPTOR 5 = PHASES 4 AND 8

\* DURING NORMAL OPERATION, 1+6 WILL NOT CHANGE TO 4+8 WHEN PHASES 2 AND 6 ARE ON RECALL, BUT THESE INTERVALS ARE SHOWN FOR THE PURPOSE OF TRANSITIONING TO AN EMERGENCY VEHICLE PREEMPTION CALL

PHASES 2 AND 6 SHALL BE PLACED ON RECALL



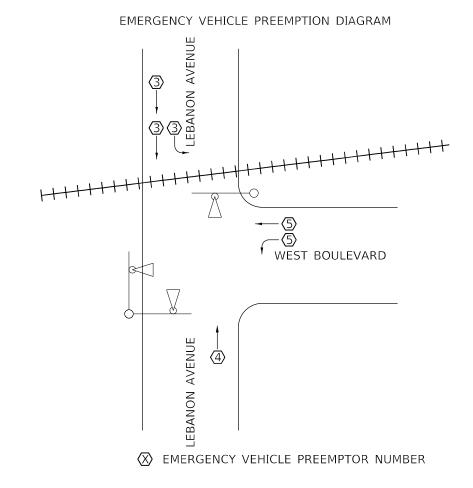
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	PLOT DATE = 3/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SEQUENCE OF OPERATION FRA CROSSING #724595J								
LEBANON AVENUE & WEST BOULEVARD (BELLEVILLE, IL)								
SCALE:	SHEET	OF	SHEETS		TO STA.			

PREEMPTOR

							NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	4	4	(	6					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	2	3	4	5	CLEAR TO NORMAL
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION NUMBER	1B	2	1D	2	1F	2	3	4	5		SEQUENCE
LEBANON AVENUE N/B LEFT MAST ARM SIGNAL	R	R	Υ	R	R	R	R	R	R	R	Δ
LEBANON AVENUE N/B NEAR RIGHT AND RIGHT MAST ARM SIGNAL	R	R	Y	R	R Y	R	R	R	R	R G	Δ
LEBANON AVENUE FAR RIGHT, NEAR RIGHT S/B AND MAST ARM SIGNALS (PRE-SIGNAL)	Υ	R	Υ	R	R	R	R	R	R	R	Δ
LEBANON AVENUE S/B FAR LEFT AND LEFT MAST ARM SIGNALS	G G	G G	G	G	R	R	G G	Y	R	R	Δ
LEBANON AVENUE S/B RIGHT MAST ARM SIGNAL	G	G	G	G	R	R	G	Υ	R	R	Δ
WEST BOULEVARD W/B LEFT MAST ARM SIGNAL	R	R	R	R	Y	R	R	R	R	R G	Δ
WEST BOULEVARD W/B NEAR RIGHT AND RIGHT MAST ARM SIGNAL	R	R	R	R	Υ	R	R	R	R	R	Δ
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	Δ



THE RAILROAD PREEMPTION SEQUENCE SHALL HOLD IN PHASES 4 AND OL A UNTIL PREEMPTION IS TERMINATED

ARAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AFTER RAILROAD INTERVAL 5 IS TERMINATED

#### NOTES:

- 1. ONCE PREEMPTION HAS BEEN CALLED, THE TRACK CLEAR SIGNAL DISPLAY SHALL APPEAR IMMEDIATELY AFTER ALL NECESSARY VEHICULAR CLEARANCES HAVE BEEN PROVIDED.
- 2. THE RAILROAD PREEMPTION SEQUENCE OF OPERATION SHALL HAVE PRIORITY OVER ALL OTHER SEQUENCES OF OPERATION.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

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USER NAME = bschm	DESIGNED -	REVISED -
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PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAILROAD PREEMPTION SEQUENCE OF OPERATION FRA CROSSING #724595J								
LEBA	NON	AVE	&	WEST BL	.VD	(BELLEVILLE, IL)		
	SHEET		OF			TO STA.		

F.A. * RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
**	RR INTERCO	NNECT 2	2021	***	19	15
			CONTRACT	NO. 76	5P47	
		ILLINOIS	FED. A	ID PROJECT N	IHPP-8KDX(	507)

#### TRAFFIC SIGNAL GENERAL NOTES

- 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 KARTING ANY WORK, FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "J.U.L.L.E." AT (800) 892-0123. THE CONTRACTOR SHALL CONTACT CSX TRANSPORTATION (CSX) AT (800) 292-0144. THE CONTRACTOR SHALL CONTACT CSX TRANSPORTATION (CSX) BEFORE STARTING
- ANY WORK ON UP PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FOLLOWING ANY WORK ON UP PROPERTY. THE CONTRACTOR SHALL BE: RESPONSIBLE FOR OBTAINING AND CURRENT SPECIFICATIONS FOR PIPELINE OCCUPANCY OF CSX TRANSPORTATION (CSX) PROPERTY. (CSX DOT #546538E)
  THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, IDOT, AND CSX RAILWAY,
  THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE RAILROAD FORCES. SEE SPECIAL

- PROVISION "RALROAD COORDINATION AND FLAGGERS".

  THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO REPLACING AND TURNING ON OF THE CONTROLLER UNIT.

  THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE
- TRAFFIC SIGNAL CONTROLLER CABINET DOOR.
- PAY TEM "RAILROAD, FULL-ACTUATE CONTROLLER AND CABINET TYPE IV CABINET, SPECIAL" SHALL INCLUDE VEHICLE DETECTOR AMPS, REMOTE MONITORING, AND AN INTERSECTION MONITOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING TRAFFIC SIGNAL INSTALLATION DURING THE WORK.
- THE CONTRACTOR SHALL DOWNLOAD THE EXISTING TRAFFIC CONTROLLER DATABASE AND PROVIDE A COPY TO IDOT AND ICC STAFF PRIOR TO SHOP TESTING OF THE NEW TRAFFIC CONTROLLER EQUIPMENT.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE SPECIAL PROVISION.

AGENCY: ILLINOIS DEPARTMENT OF TRANSPORTATION - DISTRICT 8

1 EACH CONTROLLER AND CABINET (COMPLETE)

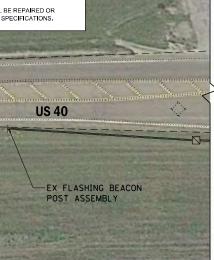
NOTE: ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS AND NO EXTRA COMPENSTAION SHALL BE ALLOWED. ANY DAMAGE TO TURF AREAS SHALL BE SEEDED IN ACCORDANCE WITH SECTION 252 OF THE STANDARD SPECIFICATIONS.

STAGING OF THE RAILROAD INTERCONNECT WORK:
THE EXISTING RAILROAD INTERCONNECT WILL BE MAINTAINED THROUGHOUT THE WORK UNTIL

A NEW RAILROAD INTERCONNECT CABLE IS INSTALLED FROM THE NEW CONTROLLER TO THE RAILROAD BUNGALOW AS SHOWN.

ANY DAMAGE DONE TO THE EXISTING SIGNAL ITEMS OR APURTENANCES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, PER PER SECTION 895.02 OF THE STANDARD SPECIFICATIONS.



RAILROAD BUNGALOW

INSTALL NEW R8-8 AND-

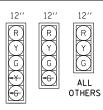
R10-6A SIGN ASSEMBLY

INSTALL NEW R8-8 SIGN-

OOT #546-538E)

# REM EX TRAFFIC CONTROLLER AND CABINET -RAILROAD, FULL-ACTUATE CONTROLLER AND TYPE IN CABINET, SPECIAL INSTALL NEW CABLE IN EX CONDUIT (NO. 14 3C; RAILROAD INTERCONNECT) INSTALL NEW CABLE IN EX CONDUIT NO. 14 3C; RAILROAD (A) INTERCONNECT) **US 40** (B)-STALL NEW CABLE N EX CONDUIT NO. 14 3C; RAILROAD NTERCONNECT)

#### TRAFFIC SIGNAL FACES





A B

DO NOT STOP ON **TRACKS** R8-8

(24"x30")

INSTALL NEW CABLE

IN EX CONDUIT
(NO. 14 3C: RAILROAD
INTERCONNECT)

**US 40** 

STOP HERE ON RED R10-6A

(24"x30")

RED

R10-11B (36"x36")

TURN ON

EX FLASHING BEACON-POST ASSEMBLY **US 40** 

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0-

## TRAFFIC SIGNAL LEGEND

┲ EXISTING SERVICE INSTALLATION (POLE MTD.) EXISTING SIGNAL HEAD (NO BACKPLATE)

EXISTING SIGNAL HEAD (WITH BACKPLATE)

EXISTING HANDHOLE 

 $\Delta$ EXISTING DOUBLE HANDHOLE  $\blacksquare$ EXISTING HEAVY DUTY HANDHOLE

> EXISTING TRAFFIC SIGNAL POST EXISTING STEEL MAST ARM ASSEMBLY AND POLE

EXISTING RAILROAD BUNGALOW  $\geq$ 

EXISTING UNDERGROUND CONDUIT

L.E.D. ILLUMINATED RAILROAD BLANKOUT SIGN

POLE OR MAST ARM MOUNTED SIGN PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET

EXISTING LOOP DETECTION ZONE

### **CONSTRUCTION NOTES:**

THE CONTRACTOR SHALL REMOVE THE EXISTING RAILROAD BLANKOUT SIGN AND REPLACE WITH A NEW L.E.D. ILLUMINATED RAILROAD BLANKOUT SIGN. THE EXISTING NO. 14, 2/C CABLE SHALL BE USED TO POWER THE PROPOSED RAILROAD BLANKOUT SIGN.

USER NAME = SAlzebari	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
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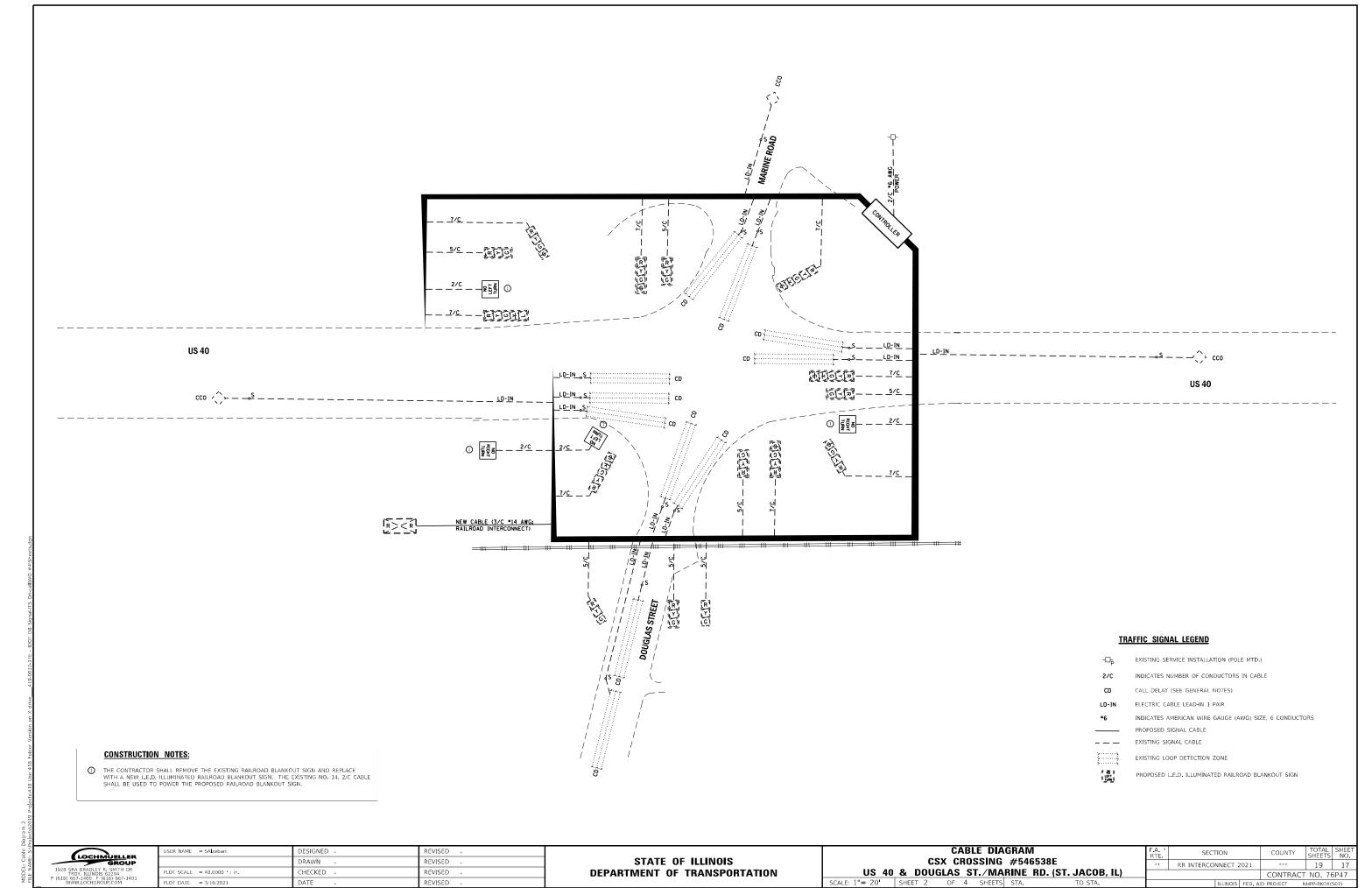
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

INSTALL NEW R8-8 SIGN POST ASSEMBLY

EX R8-8 SIGN

TRAFFIC SIGNAL MODIFICATION PLAN CSX CROSSING #546538E US 40 & DOUGLAS ST./MARINE RD. (ST. JACOB,IL) SCALE: 1"= 20' SHEET 1 OF 4 SHEETS STA.

A. * TE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
**	RR INTERCO	NNECT 2	2021	***	19	16
		NO. 76	5P47			
		ILLINOIS	FED. A	ID PROJECT N	HPP-8KDX(	507)



\* VARIOUS \*\* VARIOUS \*\*\* MADISON / ST. CLAIR

MOVEMENT				1 —	<u>ل</u> ۲	— 5			1 6	<b>→</b>	-			- 2 - 5	6 —	<del>\</del>	- 2	3	<b>-</b>			#	(			F
				#	<del>                                      </del>	##	-			Ш		#	<del>    </del>	#	#	##	#	#		#				4		L A
PHASE					1 +	5				1 + 6	ĵ.		2 + !	5		2 + 6	5		3			4	+ Ol	_A		S H
INTERVAL		1	2A	2B	3A	3B	4A	4B	5	6A	6B	7	8A	8B	9	10A	10B	11	12A	12B	13	14A	14B	14C	14D	
CHANGE TO			1 +	+ 6	2 -	+ 5	2 -	+ 6		2 -	⊦ 6		2 -	+ 6		2				+ 6			1 - 1 - 2 - 2 -	- 6 - 5		
US 40 LEFT MAST ARM AND FAR LEFT SIGNALS	E/B	R G	R G →	R G <del>↓</del>	R Y	R	R Y	R	G G	G ≻∤	G	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R
US 40 RIGHT MAST ARM	E/B	R	R	R	R	R	R	R	G	G	G	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R
US 40 LEFT MAST ARM AND FAR LEFT SIGNALS	W/B	R G	R Y	R	R G	R G	R Y	R	R	R	R	G G	G Y	G	G	Υ	R	R	R	R	R	R	R	R	R	R
US 40 RIGHT MAST ARM	W/B	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Υ	R	R	R	R	R	R	R	R	R	R
MARINE ROAD MAST ARM SIGNAL (4-SEC HEAD)	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G	Υ	R	R	R	R	R	R	R
MARINE ROAD MAST ARM SIGNAL (3-SEC HEAD)	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R	R	R	R	R	R
DOUGLAS STREET MAST ARM SIGNALS SOUTH OF RR TRACKS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R	R	R
DOUGLAS STREET MAST ARM SIGNALS NORTH OF RR TRACKS (4-SEC HEAD	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G	G G	G G ▼	Υ	R	R
DOUGLAS STREET MAST ARM SIGNALS NORTH OF RR TRACKS (3-SEC HEAD	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Υ	R	R

### NOTES:

- 1. PHASES 2 AND 6 SHALL BE PLACED ON REACALL
- 2. OVERLAP A INCLUDES PHASES 4 (NB) AND 9 (NB, ONLY USED IN PREEMPTION AS TRACK CLEARNANCE PHASE)

LOCHMUELLER
GROUP
1928 SRA BRADLEY R. SMITH DR TROY, ILLINOIS 62294
P (618) 667-1400 F (618) 667-1401 WWW.LOCHGROUP.COM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TI	RAFFI			_	SEQUEI DSSING		 OPERATION 88F	
US	40	& D						 ). (ST. JACOB, IL)	
= 20'		SHEET	3	OF	4	SHEETS	STA.	TO STA.	

														PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER			l	ī	5		7	Ġ	9	1	1	1	3					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	11	1,1	1K	1L	2	3	4	5	CLEAR TO NORMAL
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION NUMBER		1B	2	1D	2	1F	2	1H	2	1J	2	1L	2	3	4	5		SEQUENCE
US 40 LEFT MAST ARM AND FAR LEFT SIGNALS	E/B	R Y <b>→</b>	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	G	Δ
US 40 RIGHT MAST ARM SIGNALS	E/B	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	G	Δ
US 40 LEFT MAST ARM AND FAR LEFT SIGNALS	V/B	R <b>Y</b> ∤	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	G	Δ
US 40 RIGHT MAST ARM SIGNALS	V/B	R	R	R	R	Υ	R	Y	R	R	R	R	R	R	R	R	G	Δ
MARINE ROAD MAST ARM SIGNAL (4-SEC HEAD)	S/B	R	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	R	Δ
MARINE ROAD MAST ARM SIGNAL (3-SEC HEAD)	S/B	R	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	R	Δ
DOUGLAS STREET MAST ARM SIGNAL SOUTH OF RR TRACKS (PRE-SIGNALS)	N/B	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Δ
DOUGLAS STREET MAST ARM SIGNAL NORTH OF RR TRACKS (4-SEC HEAD)	N/B	R	R	R	R	R	R	R	R	R	R	G G d	G G	G G	Υ	R	R	Δ
DOUGLAS STREET MAST ARM SIGNAL NORTH OF RR TRACKS (3-SEC HEAD)	N/B	R	R	R	R	R	R	R	R	R	R	G	G	G	Υ	R	R	Δ
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	1	VRT	NRT	NRT	NRT	NRT	NRT	NRT	Δ									
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS	ſ	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	Δ

THE RAILROAD PREEMPTION SEQUENCE SHALL BE CAPABLE OF CYCLING BETWEEN PHASES 1, 2, AND 6 UNTIL PREEMPTION IS TERMINATED

A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AFTER RAILROAD INTERVAL 5 IS TERMINATED

#### NOTES:

- 1. ONCE PREEMPTION HAS BEEN CALLED, THE TRACK CLEAR SIGNAL DISPLAY SHALL APPEAR IMMEDIATELY AFTER ALL NECESSARY VEHICULAR CLEARANCES HAVE BEEN PROVIDED.
- 2. THE RAILROAD PREEMPTION SEQUENCE OF OPERATION SHALL HAVE PRIORITY OVER ALL OTHER SEQUENCES OF OPERATION.

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RAILROAD PREEMPTION SEQUENCE OF OPERATION
CSX CROSSING #546538E
US 40 & DOUGLAS ST./MARINE RD. (ST. JACOB, IL)

1" = 20' SHEET 4 OF 4 SHEETS STA. TO STA.