SEQUENCE OF OPERATION

MOVEMENT	1	2A	2B	3A	3B	4A	4B	5	6	7A	7B	8	9	10A	10B	11	12	13A	13B	14A	14B	15A	15B	16	17	18	19	20	21	22A	22B	23	24	25	26A	26B	27	28	29	30A	30B	FLASH
PHASE	1 + 5							1 + 6				2 + 5				2 + 6								3 + 7				3 + 8					4 + 7					4 + 8				
INTERVAL	1	2A	2B	3A	3B	4A	4B	5	6	7A	7B	8	9	10A	10B	11	12	13A	13B	14A	14B	15A	15B	16	17	18	19	20	21	22A	22B	23	24	25	26A	26B	27	28	29	30A	30B	
CHANGE TO		1+6		2+5		2+6		θ	θ	2+6		θ	θ	2+6				1+6		2+5		1+5 3+7 3+8 4+7 4+8			1+5 1+6 2+5 2+6 4+8	3+8	4+7	θ	θ	1+5 1+6 2+5 2+6		4+8	θ	θ	1+5 1+6 2+5 2+6		4+8			1+5 1+6 2+5 2+6		
IL ROUTE 50 (CICERO AVENUE) NEAR AND FAR RIGHT SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	G	G	Y	R	R G→	R Y→	R G→	R Y→	R G→	R G→	R Y→	R	R Y→	R	R	R	R	R	R	R	R	R	R
IL ROUTE 50 (CICERO AVENUE) MID MAST ARM SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL ROUTE 50 (CICERO AVENUE) END MAST ARM AND FAR LEFT SIGNALS N/B	←G	←Y	←R	←G	←G	←Y	←R	←R	←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	←R	←R	←R	←R
IL ROUTE 50 (CICERO AVENUE) NEAR AND FAR RIGHT SIGNALS S/B	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	G	Y	R	Y	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
IL ROUTE 50 (CICERO AVENUE) MID MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL ROUTE 50 (CICERO AVENUE) END MAST ARM AND FAR LEFT SIGNALS S/B	←G	←G	←G	←Y	←R	←Y	←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	←R	←R	←R	←R	←R	←R	←R	←R
SOUTHWEST HIGHWAY NEAR RIGHT, FAR RIGHT AND MID MAST ARM SIGNALS E/B	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	R	G	G	Y	R	G	G	G	Y	R	R
SOUTHWEST HIGHWAY END MAST ARM AND FAR LEFT SIGNALS E/B	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	R ←Y	R ←Y	R ←G	R	R	R	R	R	G ←G	G ←G	Y	R	G ←Y	G	G	Y	R	R
SOUTHWEST HIGHWAY NEAR AND FAR RIGHT MAST ARM SIGNALS W/B	R G→	R G→	R G→	R Y→	R	R Y→	R	R G→	R G→	R Y→	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	R	R	R	R	R	G	G	Y	R	R
SOUTHWEST HIGHWAY MID MAST ARM SIGNALS W/B	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	G	Y	R	G	R	R	R	R	R	G	G	Y	R	R
SOUTHWEST HIGHWAY END MAST ARM AND FAR LEFT SIGNALS W/B	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	R ←Y	R ←G	R ←Y	G ←G	G ←G	Y	R	G ←Y	R	R	R	R	R	G	G	Y	R	R
IL ROUTE 50 (CICERO AVENUE) YELLOW FLASHER N/B	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	DARK	DARK	DARK	DARK	DARK	DARK	FL Y	FL Y	DARK	DARK	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY ON EAST SIDE OF IL ROUTE 50 (CICERO AVENUE)	H	H	H	H	H	H	H	H	H	H	H	* P	**FH	H	H	* P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	DARK
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY ON WEST SIDE OF IL ROUTE 50 (CICERO AVENUE)	H	H	H	H	H	H	H	* P	**FH	H	H	H	H	H	H	* P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUE) ON SOUTH SIDE OF SOUTHWEST HIGHWAY	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	* P	**FH	H	H	H	* P	**FH	H	H	H	
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUE) ON NORTH SIDE OF SOUTHWEST HIGHWAY	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	* P	**FH	H	H	H	H	H	H	H	* P	**FH	H	H		

PHASE 2+6 SHALL BE PLACED ON RECALL

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING "✋" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

θ 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.

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

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

RAILROAD PREEMPTION SEQUENCE OF OPERATION

														PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 5		PREEMPTOR NUMBER 2								
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8	11		16	20		24		28															
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER															2	3		4										
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	2	3	4	5	CLEAR TO NORMAL SEQUENCE				
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	2	1G	2	2	1K	2	1M	2	1P	2	2	1S	2	1U	2	3	4	5						
IL ROUTE 50 (CICERO AVENUE) NEAR AND FAR RIGHT SIGNALS N/B	R	R	R	R	G	G	G	R Y→	R Y→	R	R	R	R	R	G	R	R	R	R	G	Y	R	R	Δ				
IL ROUTE 50 (CICERO AVENUE) MID MAST ARM SIGNALS N/B	R	R	R	R	G	G	G	R	R	R	R	R	R	R	G	R	R	R	R	G	Y	R	R	Δ				
IL ROUTE 50 (CICERO AVENUE) END MAST ARM AND FAR LEFT SIGNALS N/B	←G	←G	←R	←R	←G	←R	←R	←R	←R	←R	←R	←R	←R	←R	← G	←R	←R	←R	←R	← G	←Y	←R	←R	Δ				
IL ROUTE 50 (CICERO AVENUE) NEAR AND FAR RIGHT SIGNALS S/B	R	R	Y	R	R	Y	R	R Y→	R	R	R Y→	R	R	R	R	Y	R	R	R	R	R	R	R	Δ				
IL ROUTE 50 (CICERO AVENUE) MID MAST ARM SIGNALS S/B	R	R	Y	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ				
IL ROUTE 50 (CICERO AVENUE) END MAST ARM AND FAR LEFT SIGNALS S/B	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	← R	←Y	←R	←R	←R	← R	←R	←R	←R	Δ				
SOUTHWEST HIGHWAY NEAR RIGHT, FAR RIGHT AND MID MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	Y	R	R	R	R	G	Δ				
SOUTHWEST HIGHWAY END MAST ARM AND FAR LEFT SIGNALS E/B	R	R	R	R	R	R	R	R ←Y	R	R	Y	R	Y	R	R	R	R	Y	R	R	R	R	G	Δ				
SOUTHWEST HIGHWAY NEAR AND FAR RIGHT MAST ARM SIGNALS W/B	R Y→	R	R Y→	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	Y	R	R	R	R	G	Δ				
SOUTHWEST HIGHWAY MID MAST ARM SIGNALS W/B	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	Y	R	R	R	R	G	Δ				
SOUTHWEST HIGHWAY END MAST ARM AND FAR LEFT SIGNALS W/B	R	R	R	R	R	R	R	R ←Y	Y	R	R	R	Y	R	R	R	R	Y	R	R	R	R	G	Δ				
IL ROUTE 50 (CICERO AVENUE) YELLOW FLASHER N/B	FL Y	FL Y	FL Y	FL Y	DARK	DARK	DARK	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	DARK	FL Y	FL Y	FL Y	Δ				
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY ON EAST SIDE OF IL ROUTE 50 (CICERO AVENUE)	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ				
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY ON WEST SIDE OF IL ROUTE 50 (CICERO AVENUE)	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ				
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUE) ON SOUTH SIDE OF SOUTHWEST HIGHWAY	H	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	Δ				
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUE) ON NORTH SIDE OF SOUTHWEST HIGHWAY	H	H	H	H	H	H	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	Δ				
																							HOLD					

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

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PLAN — NOTE BOOK NO. ____ — SURVEYED ____ PLOTTED ____ ALIGNMENT CHECKED ____ RT. OF WAY CHECKED ____ CADD FILE NAME ____ — BY — DATE

PROFILE — NOTE BOOK NO. ____ — SURVEYED ____ PLOTTED ____ GRADES CHECKED ____ B.M. NOTED ____ STRUCTURE NOTAT'NS CH'KD ____ — BY — DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEQUENCE OF OPERATION AND RAILROAD PREEMPTION SEQUENCE OF OPERATION
IL ROUTE 50 (CICERO AVE.) AND SOUTHWEST HIGHWAY

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	461TS-2(13)	COOK	42	26
		CONTRACT NO. 60X25		

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