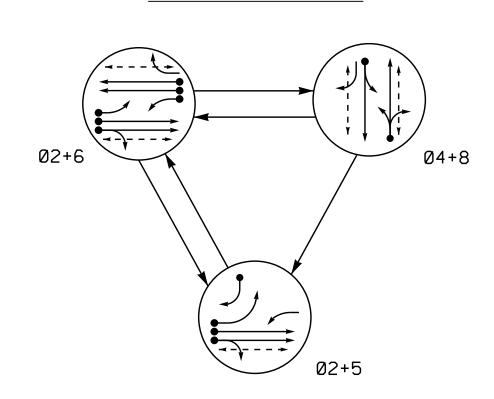
#### PROJECT REFERENCE NO. Sig 4 0 I-5700

## PHASING DIAGRAM



### PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT ← − − > PEDESTRIAN MOVEMENT

TABLE OF OPERATION									
	PHASE								
SIGNAL FACE	Ø <b>Ω</b> +5	ØN+6	Ø 4 + 8	FLASH					
21, 22	G	G	R	Υ					
41	R	R	G	R					
42	$\mathbb{R}$	R	G	R					
51	<b>\</b>	<del>-</del> F	<del></del>	<del>-</del> ¥					
61	<del>▼</del>	<del>F</del>	<del>-{</del> }	<del>-</del> ¥					
62,63	R	G	R	Υ					
81, 82	R	R	G	R					
P21, P22	W	W	DW	DRK					
P41, P42	DW	DW	W	DRK					
P61, P62	DW	W	DW	DRK					
P81, P82	DW	DW	W	DRK					

<u> </u>	SIGNAL F	ACE I.D.	
	All Head	ds L.E.D.	
12" F 61 51	R Y 12" 21, 22 41 62, 63 81, 82	12" 42	P21, P22 P41, P42 P61, P62 P81, P82

ASC/3-2070EN2 CONTROLLER w/ TS-2 CABINET												
INDUCTIVE LOOPS						DETECTOR UNITS						
LOOP / ZONE NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	ZEX	TING	NEMA PHASE	NEW	EXISTING	TIMING		ADDED	DET.
				Ž	EXIS			EXIS	FEATURE	TIME (sec.)	INITIAL	TYPE
2A <del>*</del>	6X6	300	*	Х	-	2	*	-	-	_	Х	Ν
2B <del>∦</del>	6X6	300	*	Х	-	2	*	1	-	-	X	Ν
4A	6X40	0	2-4-2	-	Х	4	_	Χ	-	-	-	S
5A* 6X4	6 7 4 0	) 0	*	Х		5	*	-	DELAY	15	-	S
	6740				_	2	*	ı	DELAY	3	-	G
5B	6X40	0	2-4-2	_	Χ	5	_	Χ	DELAY	15	-	S
6A <del>*</del>	6X6	300	*	Х	-	6	_	*	_	-	Х	N
6B <del>∦</del>	6X6	300	*	Х	-	6	_	*	-	-	Х	N
6C <del>*</del>	6X40	0	*	Х	-	6	-	*	DELAY	3	-	G
8A <del>*</del>	6X40	0	*	Х	_	8	*	-	DELAY	5	_	S

\* Video detection zone

# 3 Phase Fully Actuated (Cary Signal System)

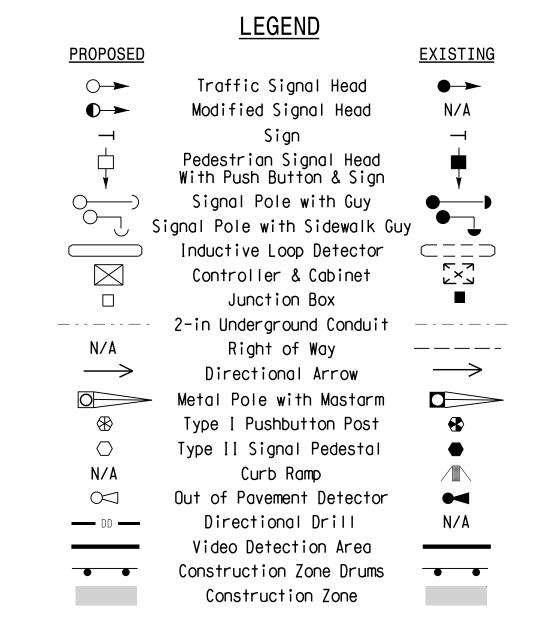
## **NOTES**

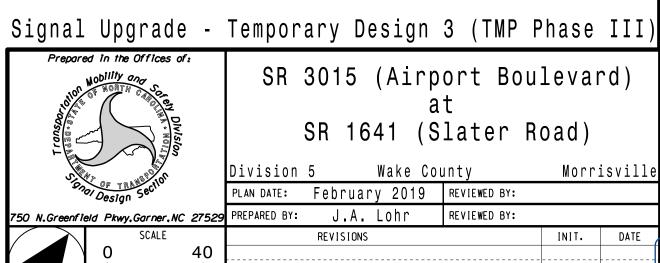
- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Phase 5 may be lagged.
- 4. Reposition existing signal heads numbered 62 and 63.
- 5. Set all detector units to presence mode. 6. Omit "WALK" and flashing "DON'T WALK"
- with no pedestrian calls.
- 7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 9. Cary signal system data: Fiber channel #: 26.
- 10. This intersection features a video detection system. Shown locations of detectors are conceptual only. Refer to the manufacturer's guidelines for optimal detector placement.

# Metal Pole #1 45 MPH +1% Grade SR 3015 (Airport Boulevard) 1 45 MPH -1% Grade SR 3015 (Airport Boulevard) \Metal Pole #2

		TI	MING	G CH	HART					
	AS(	2/3-2	2070EN	12 C	ONTROL	LER				
PHASE	Ø2		04	ļ	05		Ø6		Ø8	
MINIMUM GREEN *	12	SEC.	7	SEC.	7	SEC.	12	SEC.	7	SEC.
VEHICLE EXT. *	6.0	SEC.	2.0	SEC.	2.0	SEC.	6.0	SEC.	2.0	SEC.
YELLOW CHANGE INT.	4.6	SEC.	4.0	SEC.	3.0	SEC.	4.6	SEC.	3.0	SEC.
RED CLEARANCE	1.8	SEC.	2.2	SEC.	3.4	SEC.	1.8	SEC.	3.5	SEC.
MAX. 1 *	90	SEC.	30	SEC.	15	SEC.	90	SEC.	30	SEC.
RECALL POSITION	MIN. RECALL		NONE		NONE		MIN. RECALL		NONE	
LOCK DET.	ON		OFF		OFF		ON		OFF	
WALK *	7	SEC.	7	SEC.	_	SEC.	7	SEC.	7	SEC.
PED. CLEAR	9	SEC.	14	SEC.	_	SEC.	17	SEC.	25	SEC.
VOLUME DENSITY	ON		OFF		OFF		ON		OFF	
ACTUATION B4 ADD *	_	VEH.	_	VEH.	_	VEH.	_	VEH.	_	VEH.
SEC. PER ACTUATION *	1.5	SEC.	_	SEC.	_	SEC.	1.5	SEC.	-	SEC.
MAX. INITIAL *	34	SEC.	_	SEC.	_	SEC.	34	SEC.	_	SEC.
TIME B4 REDUCTION *	15	SEC.	_	SEC.	_	SEC.	15	SEC.	_	SEC.
TIME TO REDUCE *	30	SEC.	1	SEC.	_	SEC.	30	SEC.	I	SEC.
MINIMUM GAP	3.0	SEC.	-	SEC.	_	SEC.	3.0	SEC.	-	SEC.
DUAL ENTRY	OFF		ON		OFF		OFF		ON	
SIMULTANEOUS GAP	01	1	ON		ON		ON		ON	

\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.





DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED