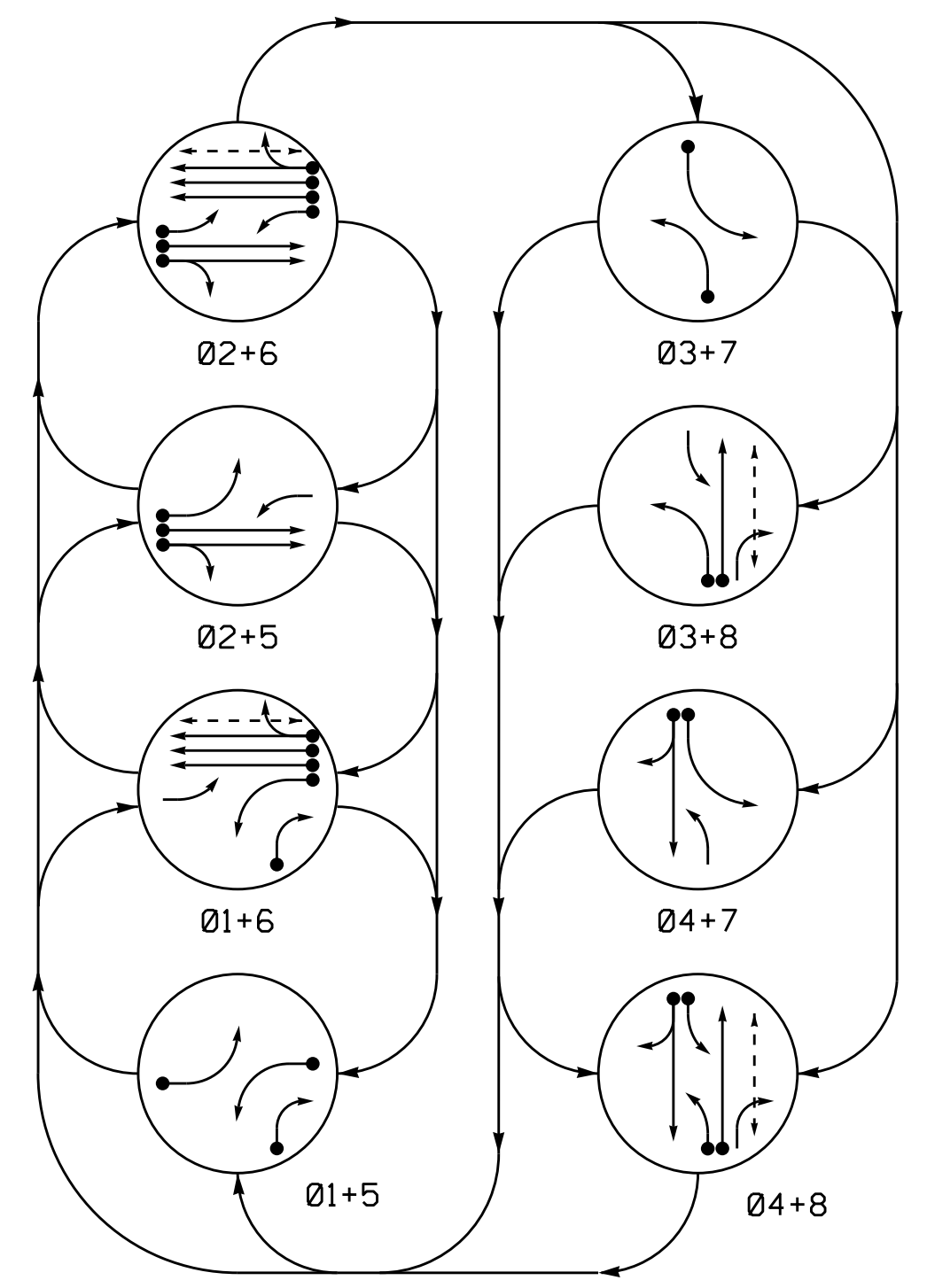
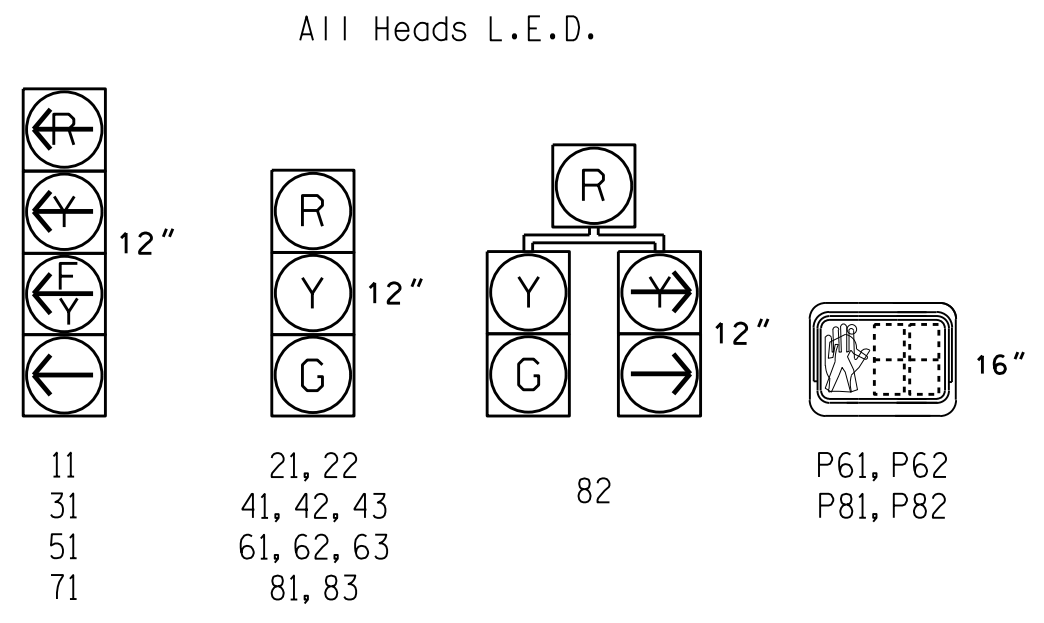


PHASING DIAGRAM



SIGNAL FACE	PHASE							
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3+7	Ø3+8	Ø4+7	Ø4+8
11	---	---	---	---	---	---	---	---
21, 22	R	R	G	G	R	R	R	Y
31	R	R	R	R	---	---	---	---
41, 42, 43	R	R	R	R	R	R	R	R
51	---	---	---	---	---	---	---	---
61, 62, 63	R	G	R	G	R	R	R	Y
71	R	R	R	R	---	---	---	---
81, 83	R	R	R	R	G	R	G	R
82	R	R	R	R	G	R	G	R
P61, P62	DW	W	DW	W	DW	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	DW	W	DRK

SIGNAL FACE I.D.



LOOP & DETECTOR INSTALLATION CHART  
ASC/3-2070EN2 CONTROLLER w/ TS-2 CABINET

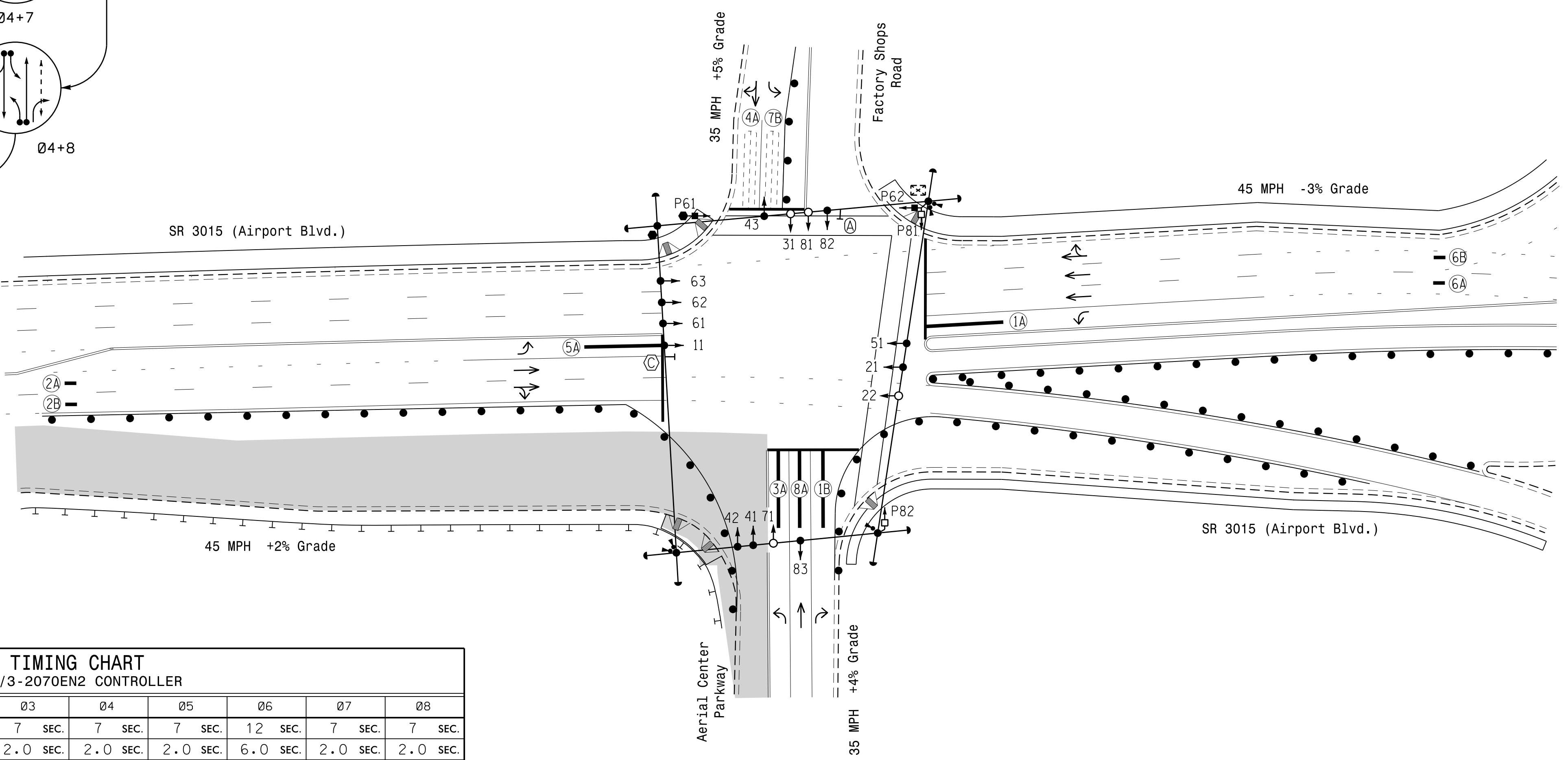
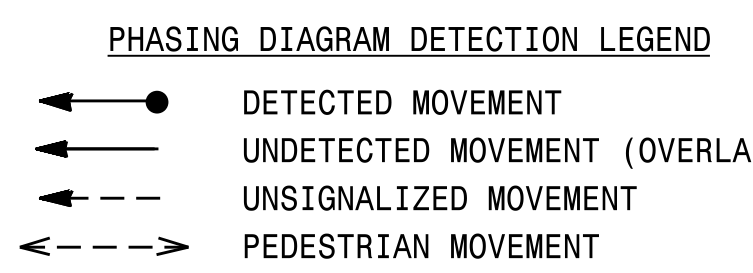
LOOP / ZONE NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	NEW EXISTING	NEMA PHASE	NEW EXISTING	TIMING			ADDED INITIAL	DET. TYPE
							FEATURE	TIME (sec)			
1A*	6X40	0	*	-	X	1	-	DELAY	15	-	S
1B*	6X40	0	*	X	-	6	-	DELAY	3	-	G
2A*	6X6	300	*	-	X	2	-	-	-	X	N
2B*	6X6	300	*	-	X	2	-	-	-	X	N
3A*	6X40	0	*	X	-	3	-	DELAY	15	-	S
4A	6X40	0	2-4-2	-	X	4	-	DELAY	10	-	S
5A*	6X40	0	*	-	X	5	-	DELAY	15	-	S
6A*	6X6	260	*	-	X	6	-	-	-	X	N
6B*	6X6	260	*	-	X	6	-	-	-	X	N
7B	6X40	0	2-4-2	-	X	7	-	-	-	-	S
8A*	6X40	0	*	X	-	8	-	-	-	-	S

\* Video detection zone.

8 Phase Fully Actuated (Cary Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Renumber existing loop numbered 3C to 4A.
- Set all detector units to presence mode.
- Renumber existing signal heads numbered 33, 34, 35, 42, and 43 to 41, 42, 43, 82, and 83, respectively.
- Reposition existing signal heads numbered 21 and 83.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Cary signal system data: Fiber Channel #: 26.
- This intersection features a video detection system. Shown locations of detectors are conceptual only. Refer to the manufacturer's guidelines for optimal detector placement.

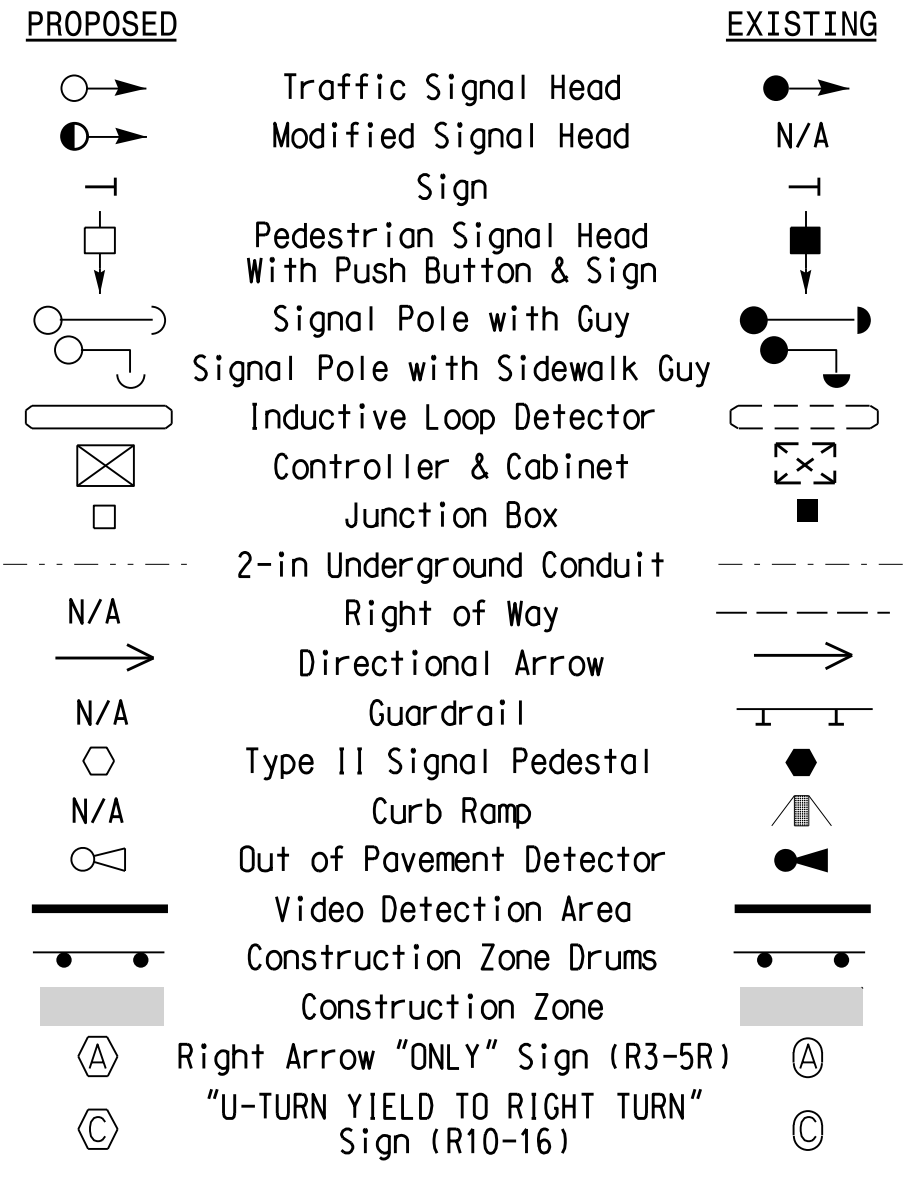


TIMING CHART  
ASC/3-2070EN2 CONTROLLER

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
MINIMUM GREEN *	7 SEC.	12 SEC.	7 SEC.	7 SEC.	7 SEC.	12 SEC.	7 SEC.	7 SEC.
VEHICLE EXT. *	2.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.	2.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	3.0 SEC.	4.8 SEC.	3.0 SEC.	3.6 SEC.	3.0 SEC.	4.8 SEC.	3.0 SEC.	3.6 SEC.
RED CLEARANCE	3.2 SEC.	1.9 SEC.	2.4 SEC.	2.8 SEC.	3.2 SEC.	1.9 SEC.	3.4 SEC.	2.8 SEC.
MAX. I *	20 SEC.	120 SEC.	20 SEC.	30 SEC.	15 SEC.	120 SEC.	20 SEC.	30 SEC.
RECALL POSITION	NONE	MIN. RECALL	NONE	NONE	NONE	MIN. RECALL	NONE	NONE
LOCK DET.	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
WALK *	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	7 SEC.	- SEC.	7 SEC.
PED. CLEAR	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	22 SEC.	- SEC.	28 SEC.
VOLUME DENSITY	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
ACTUATION B4 ADD *	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.
SEC. PER ACTUATION *	- SEC.	1.5 SEC.	- SEC.	- SEC.	- SEC.	1.5 SEC.	- SEC.	- SEC.
MAX. INITIAL *	- SEC.	34 SEC.	- SEC.	- SEC.	- SEC.	30 SEC.	- SEC.	- SEC.
TIME B4 REDUCTION *	- SEC.	15 SEC.	- SEC.	- SEC.	- SEC.	15 SEC.	- SEC.	- SEC.
TIME TO REDUCE *	- SEC.	45 SEC.	- SEC.	- SEC.	- SEC.	45 SEC.	- SEC.	- SEC.
MINIMUM GAP	- SEC.	3.0 SEC.	- SEC.	- SEC.	- SEC.	3.0 SEC.	- SEC.	- SEC.
DUAL ENTRY	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
SIMULTANEOUS GAP	ON	ON	ON	ON	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.

LEGEND



Signal Upgrade - Temporary Design 4 (TMP Phase III, Step B)

SR 3015 (Airport Blvd.) at Factory Shops Road/ Aerial Center Parkway

Division 5 Wake County Morrisville

PLAN DATE: March 2019 REVIEWED BY: J.A. Lohr

PREPARED BY: J.A. Lohr

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1"=40'

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SEAL: MORRIS CAROLINA PROFESSIONAL ENGINEERS

7/24/2019

SIG. INVENTORY NO. 05-1726T4