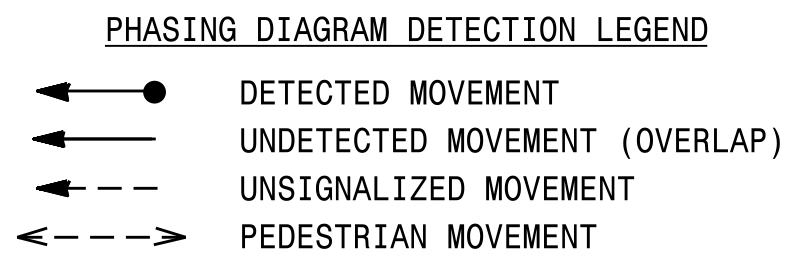
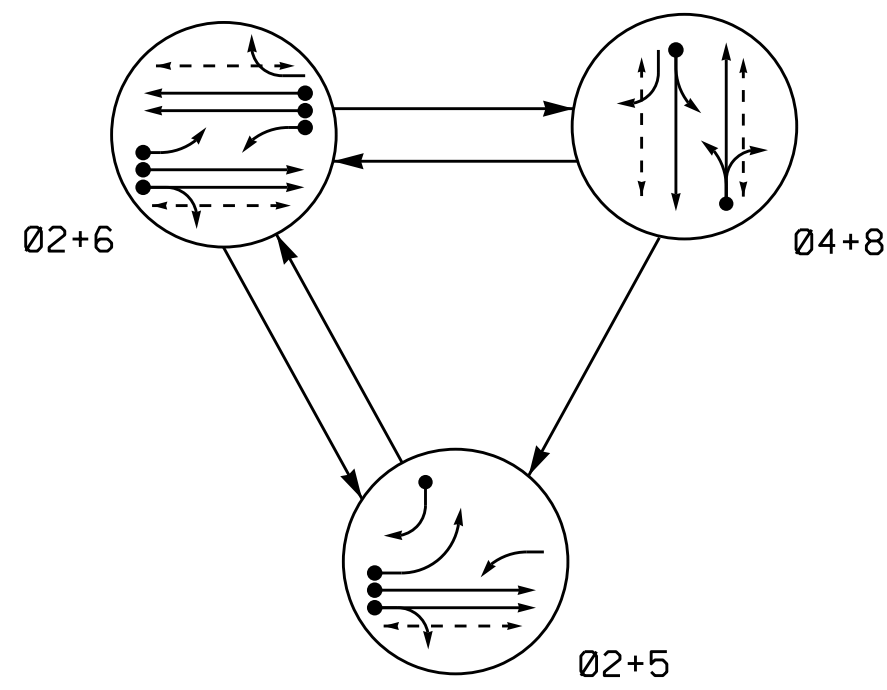
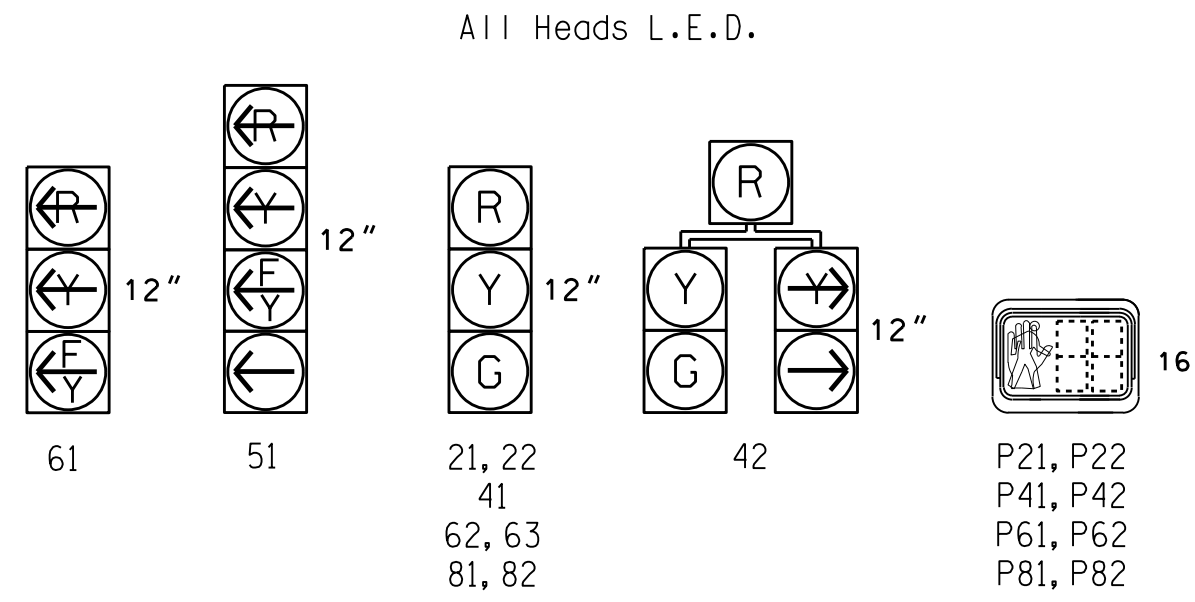


PHASING DIAGRAM



SIGNAL FACE	PHASE			
	02+5	02+6	04+8	FLASHS
21, 22	G	G	R	Y
41	R	R	G	R
42	R	R	G	R
51	F	F	R	Y
61	F	F	R	Y
62, 63	R	G	R	Y
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

SIGNAL FACE I.D.



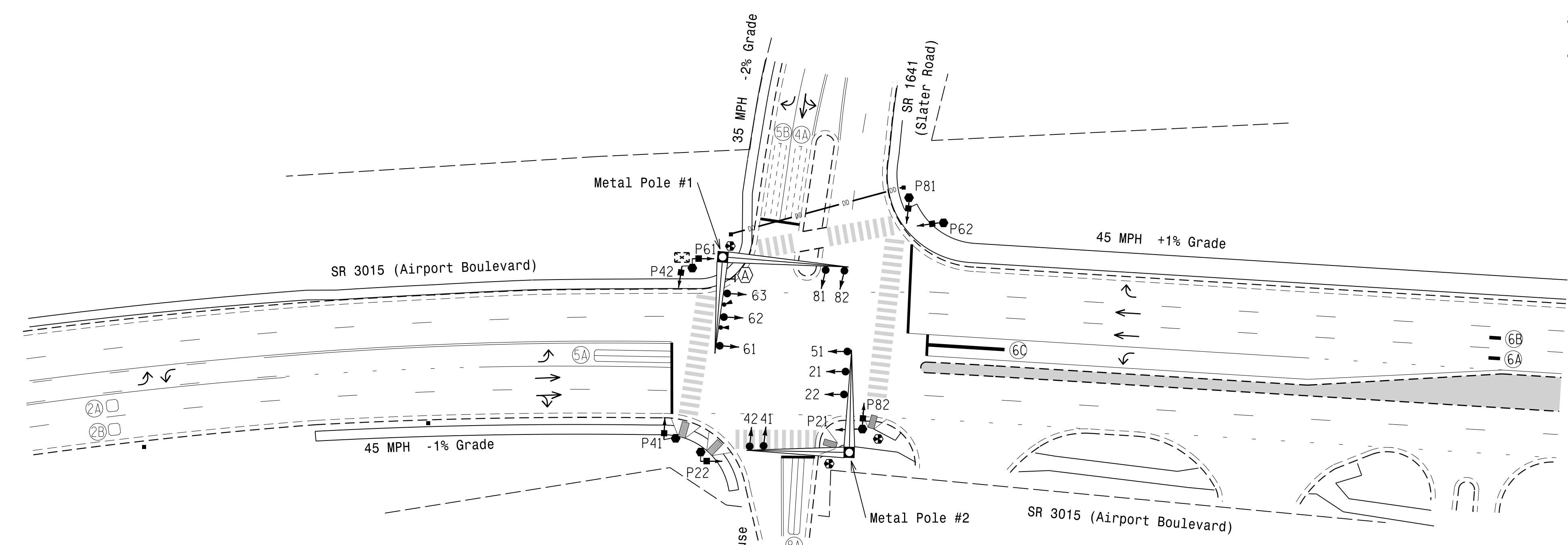
LOOP & DETECTOR INSTALLATION CHART										
ASC/3-2070EN2 CONTROLLER w/ TS-2 CABINET										
INDUCTIVE LOOPS					DETECTOR UNITS					
LOOP / ZONE NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	NEW EXISTING	NEMA PHASE	NEW EXISTING	TIMING		ADDED INITIAL	DET. TYPE
							FEATURE	TIME (sec.)		
2A	6X6	300	5	X	-	2	X	-	X	N
2B	6X6	300	5	X	-	2	X	-	X	N
4A	6X40	0	2-4-2	-	X	4	-	X	-	S
5A	6X40	0	2-4-2	X	-	5	X	DELAY 15	-	S
5B	6X40	0	2-4-2	-	X	5	-	DELAY 15	-	S
6A*	6X6	300	*	-	X	6	-	*	X	N
6B*	6X6	300	*	-	X	6	-	*	X	N
6C*	6X40	0	*	-	X	6	-	* DELAY 3	-	G
8A	6X40	0	2-4-2	X	-	8	X	DELAY 5	-	S

* Video detection zone.

3 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 5 may be lagged.
- Set all detector units to presence mode.
- 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	02	04	05	06	08
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. I *	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.	26 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.	- SEC.	- SEC.	30 SEC.	- SEC.
MINIMUM GAP	3.0 SEC.	- SEC.	- SEC.	3.0 SEC.	- SEC.
DUAL ENTRY	OFF	ON	OFF	OFF	ON
SIMULTANEOUS GAP	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.

PROPOSED		EXISTING	
	Traffic Signal Head		N/A
	Modified Signal Head		N/A
	Pedestrian Signal Head		N/A
	Signal Pole with Guy		N/A
	Signal Pole with Sidewalk Guy		N/A
	Inductive Loop Detector		N/A
	Controller & Cabinet		N/A
	Junction Box		N/A
	2-in Underground Conduit		N/A
	Right of Way		N/A
	Directional Arrow		N/A
	Metal Pole with Mastarm		N/A
	Type I Pushbutton Post		N/A
	Type II Signal Pedestal		N/A
	Curb Ramp		N/A
	Directional Drill		N/A
	Construction Zone		N/A
	Out of Pavement Detector		N/A
	Video Detection Area		N/A
	Right Arrow "ONLY" Sign (R3-5R)		N/A

Signal Upgrade - Temporary Design 4 (TMP Phase IV)

SR 3015 (Airport Boulevard) at SR 1641 (Slater Road)

Division 5 Wake County Morrisville

PLAN DATE: February 2019 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1"=40'

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER ROBERT J. ZIEGLER

7/24/2019

SIG. INVENTORY NO. 05-208814

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