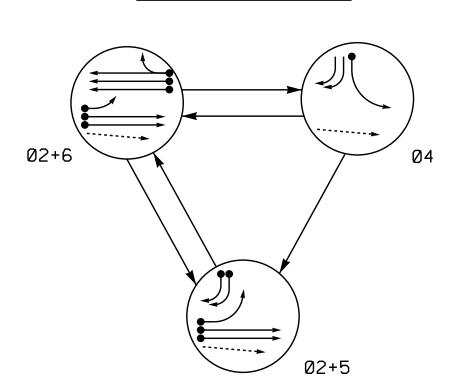
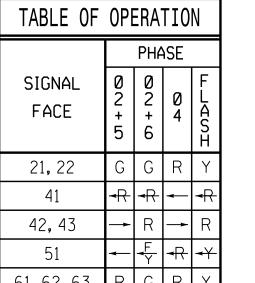
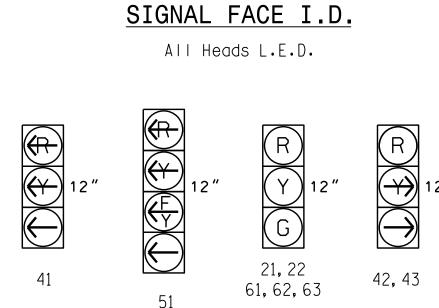
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

TABLE OF	0PE	ERA [®]	TIO	N
		PHA	ASE	
SIGNAL FACE	◎ \ + \ \	Ø2+6	04	止し位のエ
21, 22	G	G	R	Υ
41	#	₩	\	#
42, 43	1	R	*	R
51	+	F Y	#	- Y
61, 62, 63	R	G	R	Υ





LOOP & DETECTOR INSTALLATION CHART ASC/3-2070EN2 CONTROLLER w/ TS-2 CABINET												
INDUCTIVE LOOPS						DETECTOR UNITS						
LOOP /	SIZE	DIST. FROM STOPBAR TURNS	Z EX	XISTING	NEMA	NEW	EXISTING	TIMING		ADDED	DET.	
ZONE NO.	(ft)	(ft)		Z	EXIS	PHASE	PHASE \frac{\fir}{\fint}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fin}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}{\frac{\frac{\f{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{	EXIS	FEATURE	TIME	INITIAL	TYPE
2A	6X6	300	5	Χ		2	ı	Χ	ı	ı	X	N
2B	6X6	300	5	Χ		2	ı	Х	ı	I	X	N
4A	6X40	0	2-4-2	_	Х	4	_	Х	-	-	-	S
Γ.	6X40	0	2-4-2	X	-	5	-	Х	DELAY	15	-	S
5A						2	-	Χ	DELAY	3	_	G
5B	6X40	0	2-4-2	_	Х	5	-	Х	DELAY	15	_	S
5C	6X40	0	2-4-2	_	Х	5	-	Х	DELAY	15	_	S
5D	6X15	0	3	-	Х	5	-	Х	DELAY	15	_	S
6A *	6X6	300	*	-	Χ	6	_	*		-	Х	N
6B 米	6X6	300	*	-	Χ	6	ı	*		-	Х	N
6C *	6X6	300	*	_	Х	6	_	*	_	_	Χ	N

* Video detection zone.

Fully Actuated (Cary Signal System)

3 Phase

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. Set all detector units to presence mode.
- 5. Pavement markings are existing.
- 6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 7. Cary signal system data: Fiber channel #: 26.
- 8. This intersection features a video detection system. Shown locations of detectors are conceptual only. Refer to the manufacturer's guidelines for optimal detector placement.

DETECTED MON UNDETECTED MON UNDETECTED MON UNSIGNALIZED PEDESTRIAN M	OVEMENT (OVERLAP) MOVEMENT			= = = = = = = = = = = = = = = = = = =	SR 1789 (P: Grove Churo		4. 5. 6.
				Grade	oleasant och Rd.)		7.
					ant		8.
		Matal 5	212 //40				
		<u>Metal P</u>	ole #12	//			
		SR 3015 (Airport Blvd.)				45 MPH -2% Grade	
	========	=========	=======================================	3			– 60
			— 62 — 61	<u></u>			
				- ' (B)			
				51-5	/		
				21 -	-		·
			→	43 42 41			
				45 42 11			
			$\overline{\mathbf{v}}$	——————————————————————————————————————	<u>Metal Pole #13</u>	SR 3015 (Airport Blvd	
	b	45 MPH -1% Grade					

TIMING CHART ASC/3-2070EN2 CONTROLLER							
PHASE	Ø2	Ø6					
MINIMUM GREEN *	12 SEC .	7 SEC.	7 SEC.	12 SEC .			
VEHICLE EXT. *	6.0 SEC.	2.0 SEC .	2.0 SEC .	6.0 SEC.			
YELLOW CHANGE INT.	4.7 SEC.	3.0 SEC .	3.0 SEC .	4.7 SEC.			
RED CLEARANCE	1.8 SEC.	3.3 SEC .	2.8 SEC .	1.8 sec.			
MAX. 1 *	120 SEC .	30 SEC .	15 SEC .	120 SEC .			
RECALL POSITION	MIN. RECALL	NONE	NONE	MIN. RECALL			
LOCK DET.	ON	OFF	OFF	ON			
WALK *	– SEC.	– SEC.	– SEC.	– SEC.			
PED. CLEAR	– SEC.	– SEC.	– SEC.	– SEC.			
VOLUME DENSITY	ON	OFF	OFF	ON			
ACTUATION B4 ADD *	– VEH.	– VEH.	– VEH.	– VEH.			
SEC. PER ACTUATION *	1.5 SEC .	– SEC.	– SEC.	1.0 SEC.			
MAX. INITIAL *	34 SEC .	– SEC.	– SEC.	34 SEC .			
TIME B4 REDUCTION *	15 SEC .	– SEC.	– SEC.	15 SEC .			
TIME TO REDUCE *	30 SEC .	– SEC.	– SEC.	30 SEC .			
MINIMUM GAP	3.0 SEC.	– SEC.	– SEC.	3.0 SEC .			
DUAL ENTRY	OFF	OFF	OFF	OFF			
SIMULTANEOUS GAP	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.

	<u>LEGEND</u>	
<u>PROPOSED</u>	·	EXISTING
\bigcirc	Traffic Signal Head	
O	Modified Signal Head	N/A
\dashv	Sign	\dashv
\downarrow	Pedestrian Signal Head With Push Button & Sign	+
$\bigcirc \hspace{-1em} \longrightarrow \hspace{-1em})$	Signal Pole with Guy	•
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	$\subseteq = = \supset$
\searrow	Controller & Cabinet	الا الا
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
0	- Metal Pole with Mastarm	
N/A	Guardrail	
—— DD ——	Directional Drill	N/A
∞	Out of Pavement Detector	•
	Video Detection Area	
•	Construction Zone Drums	•
$\langle A \rangle$	No U-Turn Sign (R3-4)	\triangle
B	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	B

Signal Upgrade - Temporary Design 4 (TMP Phase IV) SR 3015 (Airport Blvd.) SR 1789 (Pleasant Grove Church Rd.) Division 5 Wake County

PLAN DATE: March 2019 REVIEWED BY: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: J.A. Lohr REVIEWED BY:

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