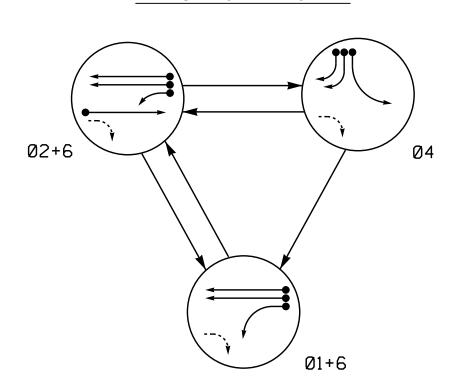
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

DETECTED MOVEMENT

← − − > PEDESTRIAN MOVEMENT

TABLE OF	0PI	ERA	TIO	N			
	PHASE						
SIGNAL FACE	01+6	◎ ~+6	0 4	下してのエ			
11	\	щ≽		*			
21, 22	R	G	R	Y			
41, 42	#	#	—	₽			
43, 44	R	R	1	R			
45	R	R	G	R			
61,62	1	†	R	Y			

_							
	TABLE OF OPERATION						
			PHA	ASE			
	SIGNAL FACE	Ø 1 + 6	Ø N +6	Ø 4	止しなのエ		
ſ	11	—	F	₩	- ¥		
	21, 22	R	G	R	Y		
	41, 42	#	#	+	#		
	43, 44	R	R	1	R		
	45	R	R	G	R		
	61, 62	<u> </u>	1	R	Υ		

41, 42

SIGNAL FACE I.D. All Heads L.E.D.

12"	R Y 12"	R Y 12"	R 12'
11	61, 62	21, 22 45	43, 44

LOOP & DETECTOR INSTALLATION CHART ASC/3-2070EN2 CONTROLLER w/ TS-2 CABINET													
INDUCTIVE LOOPS DETECTOR UNITS													
LOOP /	SIZE	DIST. FROM STOPBAR	TURNS	NEW	ING	NEMA	ZEW	NEW EXISTING	TIMING ADDED DET				
ZONE NO.	(ft)	(ft)	TURNS	ž	EXISTIN	PHASE	Z	EXIS.	FEATURE	TIME (sec)	INITIAL	TYPE	
1A *	6X40	0	*	*		I	-	Χ	DELAY	15	-	S	
IA 本	0240			不	-	6	6 - X		DELAY	3	_	G	
2A *	6X6	300	*	-	*	2	-	Χ	-	-	Х	Ν	
4A*	6X40	0	*	-	*	4	Χ	-	-	-	-	S	
4B	6X40	0	2-4-2	-	Х	4	-	Χ	DELAY	15	-	S	
4C	6X40	0	2-4-2	-	Х	4	-	Χ	DELAY	15	-	S	
6A *	6X6	300	*	-	*	6	-	Χ	-	_	Χ	N	
6B 米	6X6	300	*	-	*	6	-	Χ	-	_	Χ	N	

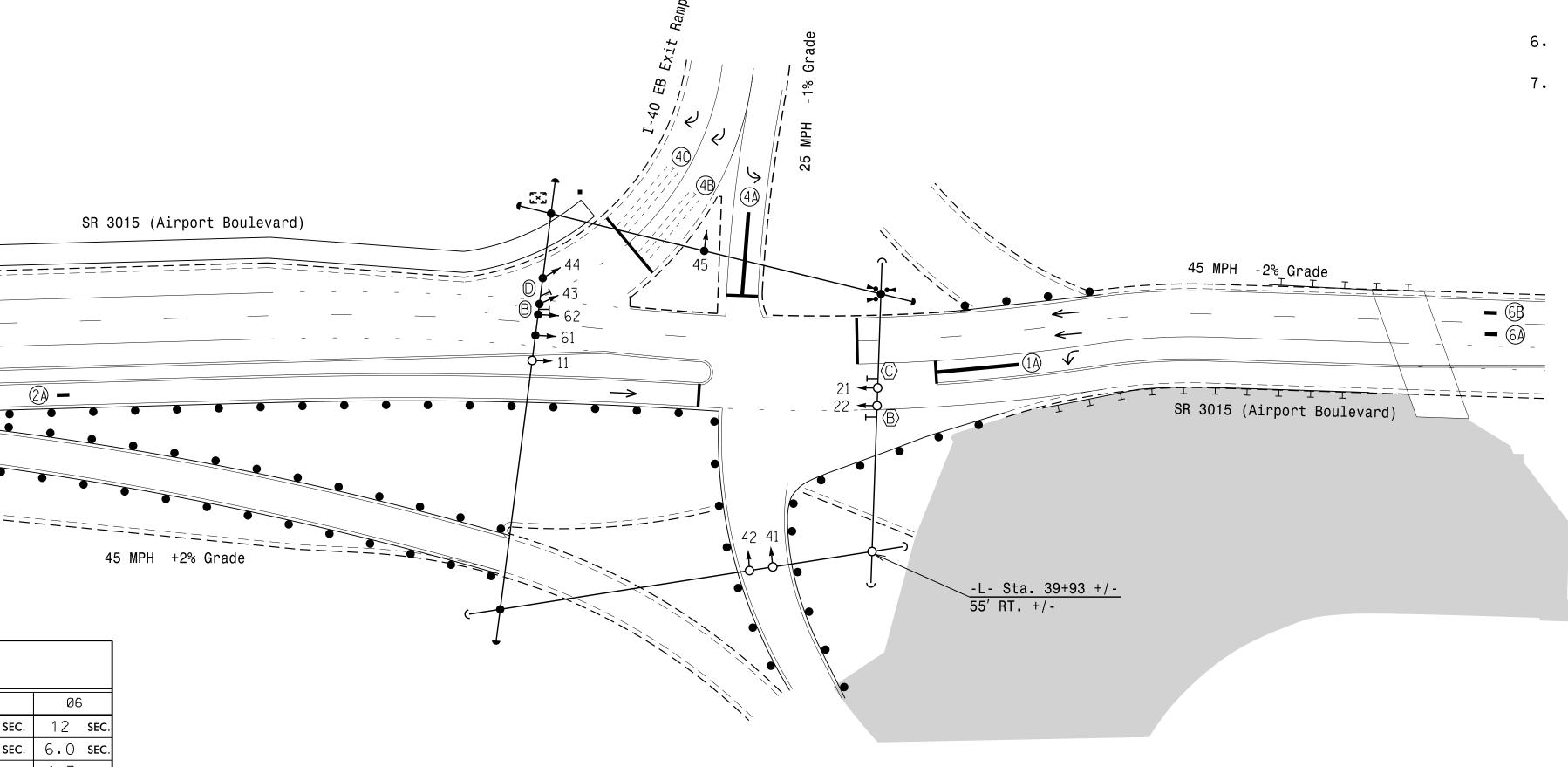
^{*} Video detection zone.

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. Set all detector units to presence mode.
- 4. Pavement markings are existing.
- 5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 6. Cary signal system data:
 - Fiber channel #: 26.

7. 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	01 02 04 0							3
MINIMUM GREEN *	7	SEC.	12	SEC.	7	SEC.	12	SEC
VEHICLE EXT. *	2.0	SEC.	6.0	SEC.	2.0	SEC.	6.0	SEC
YELLOW CHANGE INT.	3.0	SEC.	4.7	SEC.	3.0	SEC.	4.7	SEC
RED CLEARANCE	2.6	SEC.	2.6	SEC.	1.9	SEC.	2.6	SEC
MAX. 1 *	25	SEC.	120	SEC.	25	SEC.	120	SEC
RECALL POSITION	101	٧E	MIN. RE	CALL	NONE		MIN. RECALL	
LOCK DET.	OF	F	ON		OFF		ON	
WALK *	_	SEC.	_	SEC.	_	SEC.	_	SEC
PED. CLEAR	_	SEC.	_	SEC.	_	SEC.	_	SEC
VOLUME DENSITY	OF	F	40	1	OFI	=	ON	
ACTUATION B4 ADD *	_	VEH.	_	VEH.	_	VEH.	_	VEH
SEC. PER ACTUATION *	_	SEC.	2.5	SEC.	_	SEC.	1.5	SEC
MAX. INITIAL *	_	SEC.	34	SEC.	_	SEC.	34	SEC
TIME B4 REDUCTION *	_	SEC.	15	SEC.	_	SEC.	15	SEC
TIME TO REDUCE *	_	SEC.	45	SEC.	_	SEC.	45	SEC
MINIMUM GAP	_	SEC.	3.0	SEC.	_	SEC.	3.0	SEC
DUAL ENTRY	OFF		OFF		OFF		OFF	
SIMULTANEOUS GAP	01	1	01	1	ON	l	0	1

* These values may be field adjusted. Do not adjust in 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.

This plan supersedes the plan signed and sealed on 7/24/19.

<u>PROPOSED</u>		EXISTING
\bigcirc	Traffic Signal Head	
O	Modified Signal Head	N/A
_	Sign	<u> </u>
\downarrow	Pedestrian Signal Head	•
	Signal Pole with Guy Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	لد <mark>×</mark> عا
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
N/A	Curb Ramp	
N/A	Guardrail	-1 1
•	Construction Zone Drums	•
	Construction Zone	
\bigcirc	Out of Pavement Detector	•
	Video Detection Area	
⟨B⟩	No Right Turn Sign (R3-1)	B
$\langle \overline{\mathbb{C}} \rangle$ No	U-Turn/No Left Turn Sign (R3-	_
\bigcirc	No Left Turn Sign (R3-2)	0

<u>LEGEND</u>

Signal Upgrade - Tem	nporary Design 4 (TMP Phase III, Step B)	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
Prepared in the Offices of:	SR 3015 (Airport Boulevard) at I-40 EB Ramps	SEAL CARO SEAL SEAL

Division 5 Wake County Morrisville PLAN DATE: September 2019 REVIEWED BY: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: J.A. LOhr REVIEWED BY:

SEAL 026486

SIG. INVENTORY NO. 05-0947T4