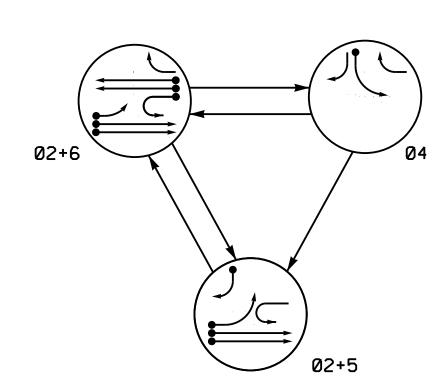
PROJECT REFERENCE NO. U-6202

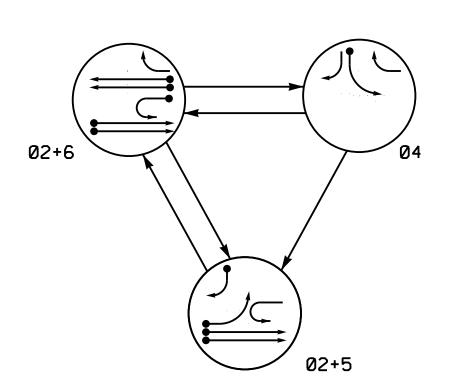
## DEFAULT PHASING DIAGRAM



### PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT →---- PEDESTRIAN MOVEMENT

## ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION						ALTERNAT TABLE OF				
	PHASE				PHASE					
SIGNAL FACE	<b>0</b> 2+5	Ø 2 + 6	0 4	上しないエ		SIGNAL FACE	02+5	<b>0</b> 2+6	04	上しなのエ
21,22	G	G	R	Υ		21,22	G	G	R	Υ
41,43	R	R	G	R		41,43	R	R	G	R
42	R/	R	G	R		42	R/	R	G	R
51	<b>\</b>	₹	<del>-R</del>	₹		51	<b>—</b>	#	#	<del>\</del>
61	€ <del>&gt;</del>	4	₽R	$\widehat{\Xi}$		61	<b>€</b> }	€ <del>&gt;</del>	æ	$\langle \Sigma \rangle$
62	R	G	R	Υ		62	R	G	R	Υ
63	R	G	R/	Υ		63	R	G	$\mathbb{R}/$	Υ
					•					

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS DETECTOR PROGRAMMING												
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
4A	6X·40	0	*	*	4	Υ	Υ	-	-	-	1	-
5A	6X:40			· .	5	Υ	Υ	-	-	15 <del>***</del>	1	-
SA	0 240	9	*	*	2.#	Υ	Υ	-	_	-		-
5B	6X·40	Θ	*	*	5	Υ	Υ	-	_	15	1	-
6C	6X40	0	*	*	6	Υ	Υ	-	-	-	ı	Υ

\* Multizone Microwave Detection

-Sensor 2

- \*\* Disable delay during alternate phasing operation.
- # Disable phase call for loop(s) during alternate phasing.

INDUCTIVE LOOPS						DETECTOR PROGRAMMING						
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
4A	6X·40	0	*	*	4	Υ	Υ	-	-	-	-	-
5A		 O	. +	· .	5	Υ	Υ	-	-	15 <del>***</del>	-	-
AC	6X:40	<u></u>	*	*	2.#	Υ	Υ	-	-	-	-	-
5B	6X·40	Θ	*	*	5	Υ	Υ	-	-	15	-	-
6C	6X40	0	*	*	6	Υ	Υ	-	-	-	-	Υ
<u></u> * Multi	★ Multizone Microwave Detection											

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.

NOTES

3 Phase

Fully Actuated

Wilmington Signal System

- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Phase 5 may be lagged.
- 4. Renumber existing loop 2A to 2B and 6B to 6C.
- 5. Reposition existing signal heads numbered 21, 22, 42, 61, 62, and 63.
- 6. Set all detector units to presence mode.
- 7. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
- 8. This intersection uses multi-zone microwave detection. Install the detectors according to the manufacturer's instructions to achieve the desired detection.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

<u>LEGEND</u>

Traffic Signal Head

Modified Signal Head

Sign

Pedestrian Signal Head

Signal Pole with Guy Signal Pole with Sidewalk Guy Microwave Detection Zone

Out of Pavement Detector

Controller & Cabinet

Junction Box 2-in Underground Conduit Right of Way

Construction Easement Directional Arrow Construction Zone

Curb Ramp

Wedge/Widen

INIT. DATE

Construction Zone Drums

**DOCUMENT NOT CONSIDERED FINAL** 

**UNLESS ALL SIGNATURES COMPLETED** 

Permanent Utility Easement ---- PUE ----

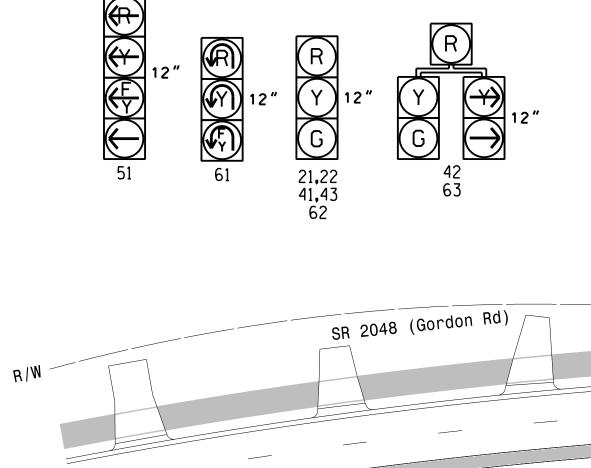
**EXISTING** 

N/A

10. Signal system data Controller Asset #0369.

# SIGNAL FACE I.D.

All Heads L.E.D.



OASIS	2070	TIMING	CHART	-				
	PHASE							
FEATURE	2	4	5	6				
Nin Green 1 *	12	5	5	12				
xtension 1 *	2.0	2.0	2.0	2.0				
Nax Green 1 *	90	30	20	90				
ellow Clearance	4.6	3.0	3.0	4.6				
ed Clearance	2.2	3.5	3.3	2.2				
ed Revert	2.0	2.0	2.0	2.0				
/alk 1 *	-	-	-	-				
on't Walk 1	-	-	-	-				
econds Per Actuation *	-	-	-	-				
Nax Variable Initial*	-	-	-	-				
ime Before Reduction *	-	-	-	-				
ime To Reduce *	-	-	-	-				
Ninimum Gap	-	-	-	-				
ecall Mode	MIN RECALL	-	-	MIN RECALL				
ehicle Call Memory	YELLOW	-	-	YELLOW				
ual Entry	-	-	-	-				
imultaneous Gap	ON	ON	ON	ON				

See Note 8

\* 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.

RADAR DETECTION SYSTEM						
FUNCTION	Sensor 1	Sensor 2				
Channel	1	1				
Phase	2	6				
Direction of Travel	EB	WB				
Detection Zone (ft)	100-600	100-600				
Enable Speed	Y	Y				
Speed Range (mph)	35-100	35-100				
Enable Estimated Time of Arrival	Y	Y				
Estimated Time of Arrival (sec) 2.5-6.5 2.5-6.5						

45 MPH 0% Grade

Se<u>nsor</u> 1 —

750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY:

Signal Upgrade-

Temporary Design 3

(Construction Phase 3)

See Note 8 —

45 MPH -1% Grade

SR 2048 (Gordon Rd)

SR 2048 (Gordon Rd)

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SR 2117 (Harris Rd) Division 3 New Hanover County May 2022 REVIEWED BY: N.K. Vlanich E.E. Tiller REVIEWED BY: N.R. Simmons

REVISIONS

OR THE CAROL 031464

SIG. INVENTORY NO. 03-0840T

HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997 HNTB