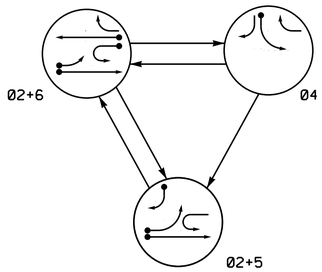
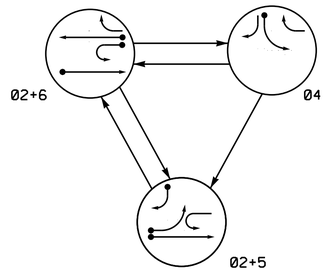
PROJECT REFERENCE NO.	SHEET NO.
U-6202	Sig. 13.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 02+5	PHASE 02+6	PHASE 04	PHASE FLASH
21,22	G	G	R	Y
41,43	R	R	G	R
42	R/	R	G	R
51	↚	↚	R	Y
61	(F)Y	(F)Y	(R)	(Y)
62	R	G	R	Y
63	R	G	R/	Y

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 02+5	PHASE 02+6	PHASE 04	PHASE FLASH
21,22	G	G	R	Y
41,43	R	R	G	R
42	R/	R	G	R
51	↚	↚	R	Y
61	(F)Y	(F)Y	(R)	(Y)
62	R	G	R	Y
63	R	G	R/	Y

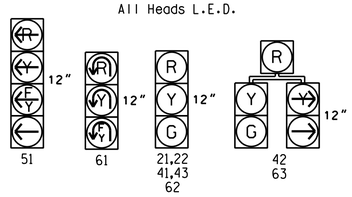
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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	6X40	0	*	*	4	Y	Y	-	-	-	-	-
5A	6X40	0	*	*	5	Y	Y	-	-	15**	-	-
					2#	Y	Y	-	-	-	-	-
5B	6X40	0	*	*	5	Y	Y	-	-	15	-	-
6B	6X40	0	*	*	6	Y	Y	-	-	-	-	Y

* Multizone Microwave Detection
** Disable Delay During Alternate Phasing Operation.
# Disable phase call for loop(s) during alternate phasing.

SIGNAL FACE I.D.

All Heads L.E.D.



3 Phase
Fully Actuated
Wilmington Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
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 signal head 61 to 62 and 62 to 63.
5. Reposition existing signal heads numbered 21, 22, 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.
10. Signal system data: Controller Asset #0840.

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 5	PHASE 6
Min Green 1 *	12	5	5	12
Extension 1 *	2.0	2.0	2.0	2.0
Max Green 1 *	90	30	20	90
Yellow Clearance	4.6	3.0	3.0	4.6
Red Clearance	2.2	3.8	3.3	2.2
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
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.

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

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	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	
N/A	Right of Way	
N/A	Permanent Utility Easement	PUE
N/A	Construction Easement	E
→	Directional Arrow	→
▭	Construction Zone	▭
▨	Wedge/Widen	▨
●●●	Construction Zone Drums	●●●
◉◉◉	Skinny Construction Zone Drums	◉◉◉

Signal Upgrade-
Temporary Design 2
(Construction Phase 2A)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for: Transportation Mobility and Safety Division, Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

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SCALE 0 40 1"=40'

SR 2048 (Gordon Rd)
at
SR 2117 (Harris Rd)

Division 3 | New Hanover County | Wilmington

PLAN DATE: May 2022 | REVIEWED BY: N.K. Vlanich
PREPARED BY: E.E. Tiller | REVIEWED BY: N.R. Simmons

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 031464 ENGINEER NATASHA R. SIMMONS

DocuSigned by: Natasha R Simmons 5/17/2024
SIGNATURE DATE

SIG. INVENTORY NO. 03-0840T2