02+6

Min Green 1 \*

Extension 1 \*

Max Green 1 \*

Recall Mode

**Vehicle Call Memory** 

#### PROJECT REFERENCE NO. Sig. 28. R-5021

## 3 Phase Fully Actuated (NC 133 Closed Loop 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.
- numbered 21,22,41,51,61,62,63,81, 82, and sign  $\triangle$ .
- presence mode.
- will determine the hours of use for each phasing plan.
- system for vehicle detection. 8. Provide the Engineer with the
- Manufacturer's approved Microwave Detection locations and mounting heights to obtain detection zones as shown.
- chart are for free-run supersede these values.
- 10. Closed loop system data:

operation only. Coordinated signal system timing values

3. Phase 5 may be lagged.

4. Reposition existing signal heads

6. The Division Traffic Engineer

9. Maximum times shown in timing

Controller Asset #: 1043.

**LEGEND PROPOSED EXISTING**  $\circ$ Traffic Signal Head Modified Signal Head Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Controller & Cabinet Junction Box 2-in Underground Conduit Right of Way  $\longrightarrow$ Directional Arrow Microwave Detection Zone Construction Zone N/A

> Construction Barricade Right Arrow "ONLY" Sign (R3-5R)

> > **DOCUMENT NOT CONSIDERED FINAL**

**UNLESS ALL SIGNATURES COMPLETED** 

J. Swain Boulevard Division 03 Brunswick Co. June 2017 REVIEWED BY: A.D. Klinksiek '50 N.Greenfleig Pkwy.Garner.NC 27529 PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons REVISIONS INIT. DATE

N/A

K×N K×N

N/A

5. Set all detector units to

- 7. Incorporate Microwave Detection

# Signal Upgrade Temporary Design 4 Construction Phase 3

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

\* |\*| 4 |Y|Y|-|

\*\* Disable phase 2 call for 5A during alternate

\*\*\* Reduce delay to 0 seconds during alternate

TURNS

INDUCTIVE LOOPS

FROM

STOPBAR

300

300

\* Multizone Microwave Detection.

SIZE (FT)

6X6 6X40

6X40

6X40

6X40

6X6

6X40

phasing operation.

phasing operation.

45 MPH +3% Grade

NC 211 (Southport-Supply Road)

LOOP

4Α

4B

6·A

6B

DETECTOR PROGRAMMING

<del>\*\*\*</del>15

NC 211 (Southport-Supply Road)

TH CARO 031464 SIG. INVENTORY NO. 03-1043T4

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

DEFAULT PHASING DIAGRAM ALTERNATE PHASING DIAGRAM

04+8

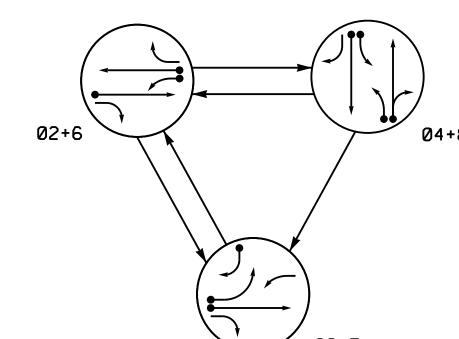
PHASING DIAGRAM DETECTION LEGEND

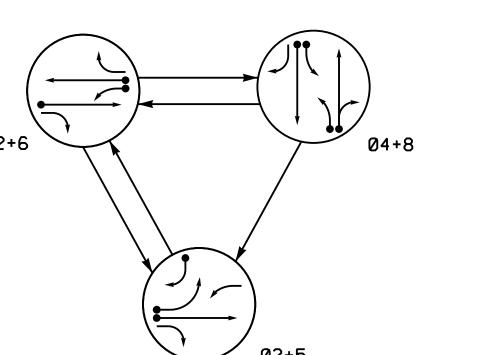
UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

DETECTED MOVEMENT

→---- PEDESTRIAN MOVEMENT





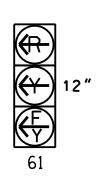
DEFAULT PHASING TABLE OF OPERATION SIGNAL FACE 21,22 41,42 43 51 62,63 81,82

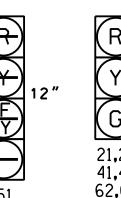
TABLE OF OPERATION PHASE PHASE SIGNAL FACE 21,22 41,42 43 51 61 62,63 81,82

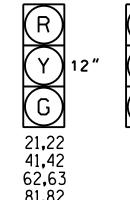
ALTERNATE PHASING

### SIGNAL FACE I.D.

All Heads L.E.D.







21,22 41,42 62,63 81,82

NC 211 (Southport-Supply Road)

45 MPH -3% Grade

OASIS 2070 TIMING CHART **PHASE FEATURE** 5 12 12 6.0 2.0 2.0 6.0 2.0 30 25 90 30 90 4.8 3.7 3.0 3.0 Yellow Clearance 4.8 1.5 2.6 4.3 2.9 1.5

MIN RECALL

YELLOW

Red Clearance 2.0 2.0 2.0 2.0 2.0 Red Revert Walk 1 \* Don't Walk 1 2.5 2.5 Seconds Per Actuation 34 Max Variable Initial \* Time Before Reduction 15 15 30 30 Time To Reduce \* -Minimum Gap 3.0 3.0

ON Dual Entry ON ON ON ON Simultaneous Gap \* 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.

MIN RECALL

YELLOW