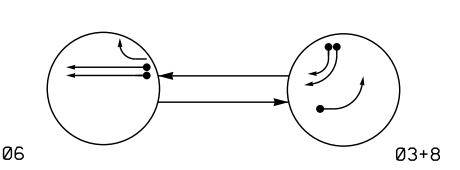
## PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

≪---
PEDESTRIAN MOVEMENT

UNDETECTED MOVEMENT

UNSIGNALIZED MOVEMENT

| TABLE OF C     | PER            | ATI          | ON             |
|----------------|----------------|--------------|----------------|
|                | Р              | HAS          | E              |
| SIGNAL<br>FACE | Ø<br>6         | Ø3+8         | FLGOI          |
| 31,32          | R              | G            | R              |
| 33             | <del>-R</del>  | ¥            | #              |
| 61,62          | G              | R            | Υ              |
| 81,82          | <del>R</del> ► | <del>-</del> | <del>R</del> ► |

| OASIS | 2070   | L00P             | & DET | ECT  | OR    | INST       | ΓALI     | LATIC   | ON CH | AR    | T    | 2 Phase   |
|-------|--------|------------------|-------|------|-------|------------|----------|---------|-------|-------|------|---|
| I     | NDUCTI | /E LOO           | )PS   |      | DETE  | CTOF       | R PF     | ROGRAN  | MMING |       |      | Fully Actuated  |
|       | SIZE   | DISTANCE<br>FROM |       | LOOP |       | NG<br>SION | AE DELAY | STRETCH | DELAY | LOOP  | CARD | US 17 (Ocean Highway) - Leland Superstre<br>DO3-12 Leland |
| LOOP  | 1 1    | STOPBAR (FT)     | TURNS | NEW  | PHASE | CALLIN     | ≤        | TIME    | TIME  | YSTEM | NEW  | DOO 12 LCIANA   |

○ 6B **©** 6

<u>PROPOSED</u>

20

6X40 0 2-4-2 Y

— Metal Pole #3

6X6 300

S08 6X6 300 4 Y

6A/S05 6X6 300

6B/S06 6X6 300

## 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. Renumber existing heads 54 and 55 as 81 and 82, respectively. Renumber existing heads 51,52, and 53 as 31,32, and 33, respectively.
- 5. Renumber existing loops 5A,5B, and 5C as 3A,8A, and 8B, respectively.
- 6. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- 7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 8. Signal System data: Controller Asset # 0974.

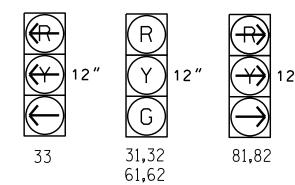
**LEGEND** 

<u>EXISTING</u>

SIG. INVENTORY NO. 03-0974

## SIGNAL FACE I.D.

All Heads L.E.D.



\_\_\_\_

|                  |        |       |     | US 17 (Ocean Highway)  ———————————————————————————————————  | Mast Arm B |
|------------------|--------|-------|-----|---|------------|
|                  |        |       |     | Mast Arm A 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3   |            |
|                  |        |       |     | 45 MPH 0% Grade   |            |
| OASIS 2070       | TIMING | CHART |     |   | // o       |
| 3,1013 2010      |        | ASE   |     | -<br>   | Grade      |
| FEATURE          | 3      | 6     | 8   | I $oldsymbol{\square}$ . The second contribution of $oldsymbol{\square}$ . The second contribution $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ . The second contribution $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ . The second contribution $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ in $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ in $oldsymbol{\square}$ in $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ in $oldsymbol{\square}$ in $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ in $oldsymbol{\square}$ in $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ in $oldsymbol{\square}$ in $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ in $oldsymbol{\square}$ in $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ in $oldsymbol{\square}$ in $oldsymbol{\square}$ is the second contribution $oldsymbol{\square}$ in $old$ | 9 %0       |
| Min Green 1 *    | 7      | 12    | 7   | -   Gate<br> -  | ا ا        |
| Extension 1 *    | 2.0    | 6.0   | 2.0 | <b>8</b>  | MPH .      |
| Max Green 1 *    | 30     | 90    | 30  | Mest  |            |
| Yellow Clearance | 3.0    | 4.5   | 3.0 | Mast Nast Nast Nast Nast Nast Nast Nast N   | 35         |
| Red Clearance    | 3.4    | 1.5   | 3.4 | Mast harm by Arm  | l<br>I     |

Stopbar Location

|          |              |                       | <br>_       | Traffic Signal Head                               |      |
|----------|--------------|-----------------------|-------------|---|------|
|          | MetalPole #6 |                       | <b>○→</b>   | Modified Signal Head                              |      |
|          | Metallole 9  |                       | <br>        | Sign  |      |
|          | (C)          | US 17 (Ocean Highway) |             | Pedestrian Signal Head<br>With Push Button & Sign |      |
|          |              | (coodin ingiliay)     | <del></del> | Signal Pole with Guy                              | •    |
| //       |              |                       |             | Signal Pole with Sidewalk Gu                      | JÀ   |
| 1        |              |                       |             | Inductive Loop Detector                           |      |
|          |              |                       |             | Controller & Cabinet                              |      |
| ive<br>i | Gra          |                       |             | Junction Box                                      |      |
| Dr.      |              |                       |             | Oversized Junction Box                            |      |
| re<br>I  |              |                       |             | 2-in Underground Conduit                          | _    |
| Gate<br> |              |                       | N/A         | Right of Way with Marker                          |      |
| );<br> - |              |                       |             | Directional Arrow                                 |      |
| West<br> | 35           |                       | 0           | - Metal Pole with Mastarm                         |      |
| i        | ii !!        |                       | $\bigcirc$  | Signal Pedestal                                   |      |
| <br>     |              |                       | ⟨∆⟩ Th      | rough Arrow "ONLY" Sign (R3-                      | -5A) |
|          | 1            |                       |             |   |      |

|     | $\supset$           | Signal Pedestal             |        | •   |   |
|-----|---------------------|-----------------------------|--------|---|---|
|     | $\overline{\Delta}$ | Through Arrow "ONLY" Sign ( | R3-5A) |   |   |
|     |                     |                             |        |   |   |
| .de |                     |                             | F      | MENT NOT CONSIDERED<br>FINAL UNLESS ALL<br>ATURES COMPLETED | • |

| Signal         | L Upgrade                |   |
|----------------|--------------------------|---|
| Prepare        | d in the Offices of:     |   |
| Transport      | Wision Wilson            |   |
| 750 N.Greenfie | eld Pkwy.Garner.NC 27529 |   |
|                | SCALE                    | Ī |

US 17 (Ocean Highway) Grandiflora Drive

|                |              | Grandit      | iora Dr      | ıve   |        | SEAL SEAL                  |
|----------------|--------------|--------------|--------------|-------|--------|----------------------------|
|                | Division     | 3 Brunswick  | County       |       | Leland | 042608                     |
|                | PLAN DATE:   | October 2021 | REVIEWED BY: | MEL   |        | ENGINE ER.                 |
| 275 <i>2</i> 9 | PREPARED BY: | Jeff Spence  | REVIEWED BY: |       |        | AN FULL BUILD              |
|                |              | REVISIONS    |              | INIT. | DATE   | DocuSigned by:             |
| 40             |              |              |              | -     |        | Meghan EliBlane 10/26/2021 |
|                |              |              |              | -     |        | B236DA823630498 DATE       |

| * These values may be field adjusted. Do not adjust Mi |
|--|
| Green and Extension times for phase 6 lower than       |
| what is shown. Min Green for all other phases should   |
| not be lower than 4 seconds.                           |

ON

Don't Walk 1

Seconds Per Actuation '

Max Variable Initial\* Time Before Reduction

Time To Reduction

Vehicle Call Memory

Simultaneous Gap

Minimum Gap

Recall Mode

1.5

50

3.0

MIN RECALL

YELLOW

ON

ON

ON