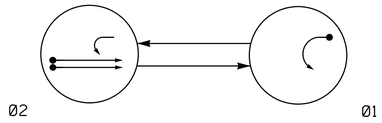
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| W-5103A | Sig. 6.0 |

Roadway Sheet 20

## DEFAULT PHASING DIAGRAM



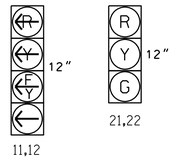

PHASING DIAGRAM DETECTION LEGEND

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

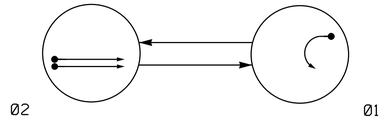
| DEFAULT TABLE OF OPERATION | | | |
|---|---|---|---|
| SIGNAL FACE | PHASE Ø1 | PHASE Ø2 | FLASH |
| 11, 12 | ← | ~~Y~~ | ~~Y~~ |
| 21, 22 | R | G | Y |

## SIGNAL FACE I.D.

All Heads L.E.D.




## ALTERNATE PHASING DIAGRAM




PHASING DIAGRAM DETECTION LEGEND

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

| ALTERNATE TABLE OF OPERATION | | | |
|---|---|---|---|
| SIGNAL FACE | PHASE Ø1 | PHASE Ø2 | FLASH |
| 11, 12 | ← | ~~R~~ | ~~Y~~ |
| 21, 22 | R | G | Y |

## OASIS 2070 LOOP & DETECTOR INSTALLATION

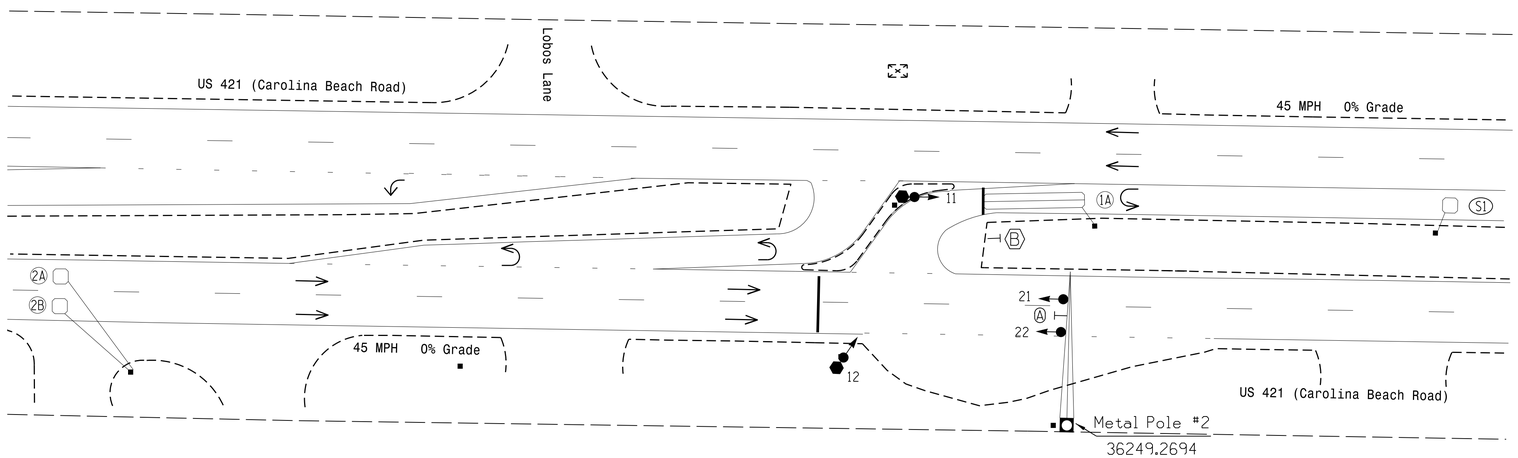
| INDUCTIVE LOOPS | | | | | DETECTOR PROGRAMMING | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PHASE | CALLING | EXTENSION | FULL TIME DELAY | STRETCH TIME | DELAY TIME | SYSTEM LOOP | NEW CARD |
| 1A | 6X40 | 0 | 2-4-2 | Y | 1 | Y | Y | - | - | *15 | - | - |
| 2A | 6X6 | 300 | 5 | Y | 2 | Y | Y | - | - | - | - | - |
| 2B | 6X6 | 300 | 5 | Y | 2 | Y | Y | - | - | - | - | - |
| S1 | 6X6 | 180 | 3 | Y | - | - | - | - | - | - | Y | - |

* Disable delay during Alternate Phasing Operation.

2 Phase
Fully Actuated
Wilmington Signal System

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
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. The City Traffic Engineer will determine the hours of use for each phasing plan.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Signal system data: Controller Asset #: 1014.




## OASIS 2070 TIMING CHART

| FEATURE | PHASE 1 | PHASE 2 |
|---|---|---|
| Min Green 1 * | 7 | 12 |
| Extension 1 * | 2.0 | 6.0 |
| Max Green 1 * | 25 | 120 |
| Yellow Clearance | 3.0 | 4.5 |
| Red Clearance | 2.8 | 1.0 |
| Walk 1 * | - | - |
| Don't Walk 1 | - | - |
| Seconds Per Actuation * | - | 1.5 |
| Max Variable Initial * | - | 34 |
| Time Before Reduction * | - | 30 |
| Time To Reduction * | - | 60 |
| Minimum Gap | - | 3.0 |
| Recall Mode | - | MIN RECALL |
| Vehicle Call Memory | - | YELLOW |
| Dual Entry | - | - |
| Simultaneous Gap | ON | ON |

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

## LEGEND

| PROPOSED | | EXISTING |
|---|---|---|
| ○→ | Traffic Signal Head | ●→ |
| ◐→ | Modified Signal Head | N/A |
| ⊣ | Sign | ⊣ |
| □ | Pedestrian Signal Head With Push Button & Sign | ■ |
| ○ | Signal Pole with Guy | ● |
| ○ | Signal Pole with Sidewalk Guy | ● |
| ▭ | Inductive Loop Detector | ▭ |
| ⊠ | Controller & Cabinet | ⛶ |
| □ | Junction Box | ■ |
| - - - - | 2-in Underground Conduit | - · - · - |
| N/A | Right of Way | — — — |
| → | Directional Arrow | → |
| ⬭ | Metal Pole with Mastarm | ⬭ |
| ⬡ | Type II Signal Pedestal | ⬢ |
| Ⓐ | Thru Arrow "ONLY" Sign (R3-5a) | Ⓐ |
| Ⓑ | "STOP HERE ON RED" Sign (R10-6) | Ⓑ |

Signal Upgrade

REVISION ▽ SEAL

NORTH CAROLINA PROFESSIONAL SEAL 023489 ENGINEER PAMELA L. ALEXANDER

DocuSigned by: P L Alexander B4756E00CE4E46D... 7/22/15 DATE

*Prepared in the Offices of:*
Transportation Mobility and Safety Division
NC DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

US 421 (Carolina Beach Road) at Myrtle Grove South U-Turn

Division 3 | New Hanover County | Myrtle Grove

PLAN DATE: February 2008 | REVIEWED BY: R. Hinshaw

PREPARED BY: K. Moore | REVIEWED BY:

SCALE 0 30 1"=30'

| REVISIONS | INIT. | DATE |
|---|---|---|
| ▽ Installloops (KGP) | pla | 7/22/15 |

*Not a certified document as to the Original Document but Only as to the Revisions - This document originally Issued and sealed by F.Royal Hinshaw,PE-032117 on 05/06/2008 This document is only certified as to the revisions.*

SIG. INVENTORY NO. 03-1014

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palexander