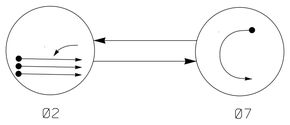
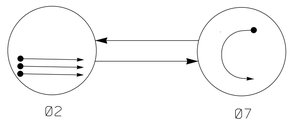
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-4751 | Sig. 9.0 |

## DEFAULT PHASING DIAGRAM




## ALTERNATE PHASING DIAGRAM




**DEFAULT PHASING TABLE OF OPERATION**

| SIGNAL FACE | PHASE Ø2 | PHASE Ø7 | FLASH |
|---|---|---|---|
| 21,22,23 | G | R | Y |
| 71,72 | (G) | (R) | (R) |

**ALTERNATE PHASING TABLE OF OPERATION**

| SIGNAL FACE | PHASE Ø2 | PHASE Ø7 | FLASH |
|---|---|---|---|
| 21,22,23 | G | R | Y |
| 71,72 | (R) | (G) | (R) |

**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

| 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 |
| 2A | 6X6 | 300 | 4 | Y | 2 | Y | Y | - | - | - | - | Y |
| 2B | 6X6 | 300 | 4 | Y | 2 | Y | Y | - | - | - | - | Y |
| 2C | 6X6 | 300 | 4 | Y | 2 | Y | Y | - | - | - | - | Y |
| 7A | 6X40 | 0 | 2-4-2 | Y | 7 | Y | Y | - | - | ✱15 | - | Y |

✱Disable delay during Alternate Phasing operation.

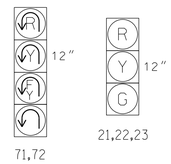
2 Phase
Fully Actuated
Wilmington Signal System

### PHASING DIAGRAM DETECTION LEGEND

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

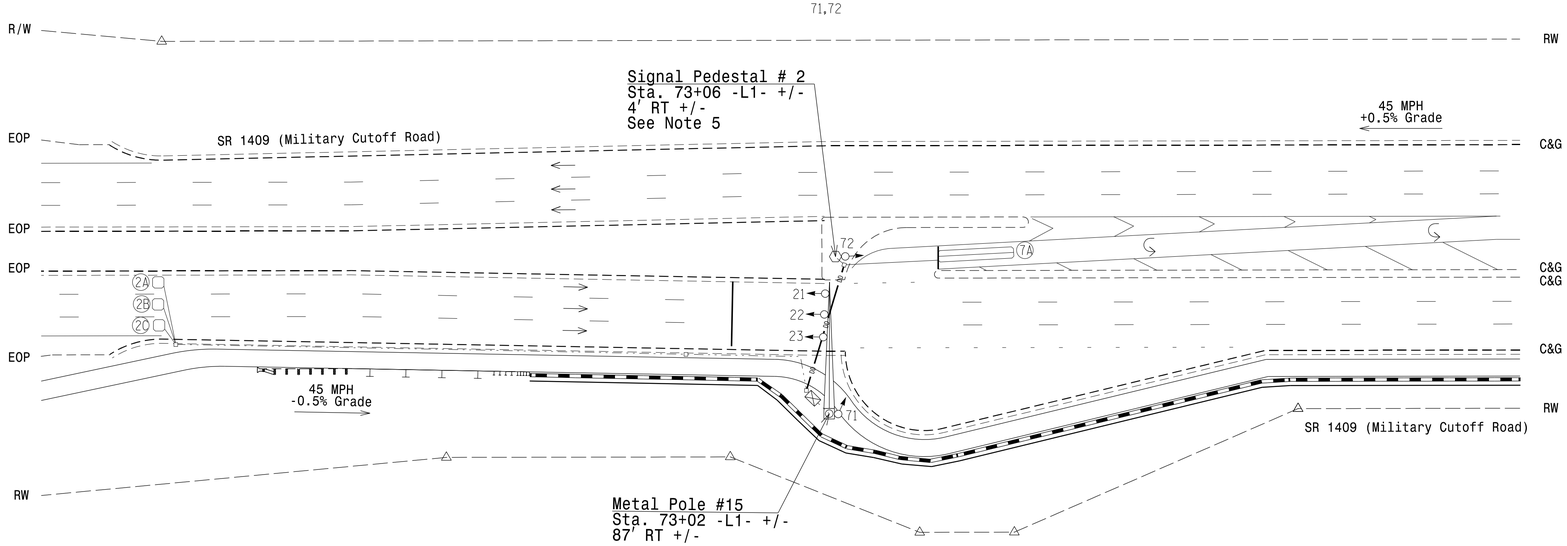
### SIGNAL FACE I.D.

All Heads L.E.D.




## 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 Division Traffic Engineer will determine the hours of use for each phasing plan.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Pedestal mounted signal heads shall be mounted a minimum of 8' above the high point of the roadway surface elevation.
7. Maximum times shown in timing charts are for free-run operation only. Coordinated signal timing values supersede these values.
8. Signal System data: controller asset #1100.




## LEGEND

| PROPOSED | | EXISTING |
|---|---|---|
| | Traffic Signal Head | |
| | Modified Signal Head | N/A |
| | Sign | |
| | Pedestrian Signal Head With Push Button & Sign | |
| | Type II Signal Pedestal | |
| | 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 | |
| DD | Directional Drill | N/A |
| | Metal Pole with Mastarm | |
| N/A | Guardrail | |
| N/A | Concrete Barrier | |
| N/A | Noise Wall | |

## OASIS 2070E TIMING CHART

| FEATURE | PHASE 2 | PHASE 7 |
|---|---|---|
| Min Green 1 * | 12 | 5 |
| Extension 1 * | 6.0 | 3.0 |
| Max Green 1 * | 100 | 30 |
| Yellow Clearance | 4.5 | 3.0 |
| Red Clearance | 1.6 | 3.5 |
| Red Revert | 2.0 | 2.0 |
| Walk 1 * | - | - |
| Don't Walk 1 | - | - |
| Seconds Per Actuation * | 1.5 | - |
| Max Variable Initial * | 34 | - |
| Time Before Reduction * | 15 | - |
| Time To Reduce * | 30 | - |
| 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 phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

New Installation



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

SR 1409 (Military Cutoff Road)
at
U-Turn South of Putman Drive

Division 3 | New Hanover County | Wilmington

PLAN DATE: March 2017 | REVIEWED BY: M B Toth
PREPARED BY: G B Spell | REVIEWED BY:

SCALE 0 40 1"=40'

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 025892 ENGINEER MELISSA B. TOTH

Documents Designed by: Melissa B. Toth 6/6/2017
SIGNATURE DATE

SIG. INVENTORY NO. 03-1100

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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