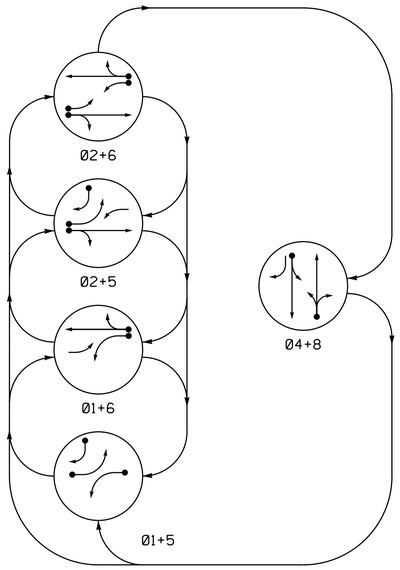
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| B-4491 | Sig.4.0 |

## PHASING DIAGRAM

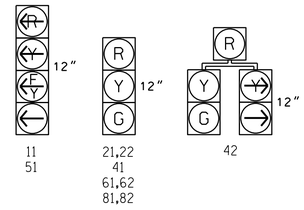



## TABLE OF OPERATION

| SIGNAL FACE | PHASE 01+5 | 01+6 | 02+5 | 02+6 | 04+8 | FLASH |
|---|---|---|---|---|---|---|
| 11 | ← | ← | F Y | F Y | ~~R~~ | ~~Y~~ |
| 21,22 | R | R | G | G | R | Y |
| 41 | R | R | R | R | G | R |
| 42 | R/← | R | R/← | R | G | R |
| 51 | ← | F Y | ← | F Y | ~~R~~ | ~~Y~~ |
| 61,62 | R | G | R | G | R | Y |
| 81,82 | R | R | R | R | G | R |

## SIGNAL FACE I.D.

All Heads L.E.D.




## 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 |
| 1A | 6X40 | 0 | 2-4-2 | Y | 1 | Y | Y | - | - | 15 | - | Y |
| | | | | | 6 | Y | Y | Y | - | 3 | - | Y |
| 2A | 6X6 | 300 | 6 | - | 2 | Y | Y | - | - | - | - | - |
| 4A | 6X40 | 0 | 2-4-2 | - | 4 | Y | Y | - | - | 3 | - | - |
| 5A | 6X40 | 0 | 2-4-2 | - | 5 | Y | Y | - | - | 15 | - | - |
| | | | | | 2 | Y | Y | Y | - | 3 | - | - |
| 5B | 6X40 | 0 | 2-4-2 | - | 5 | Y | Y | - | - | 15 | - | - |
| 6B/S15 | 6X6 | 355 | 6 | - | 6 | Y | Y | - | - | - | Y | - |
| 8A | 6X40 | 0 | 2-4-2 | Y | 8 | Y | Y | - | - | 3 | - | Y |

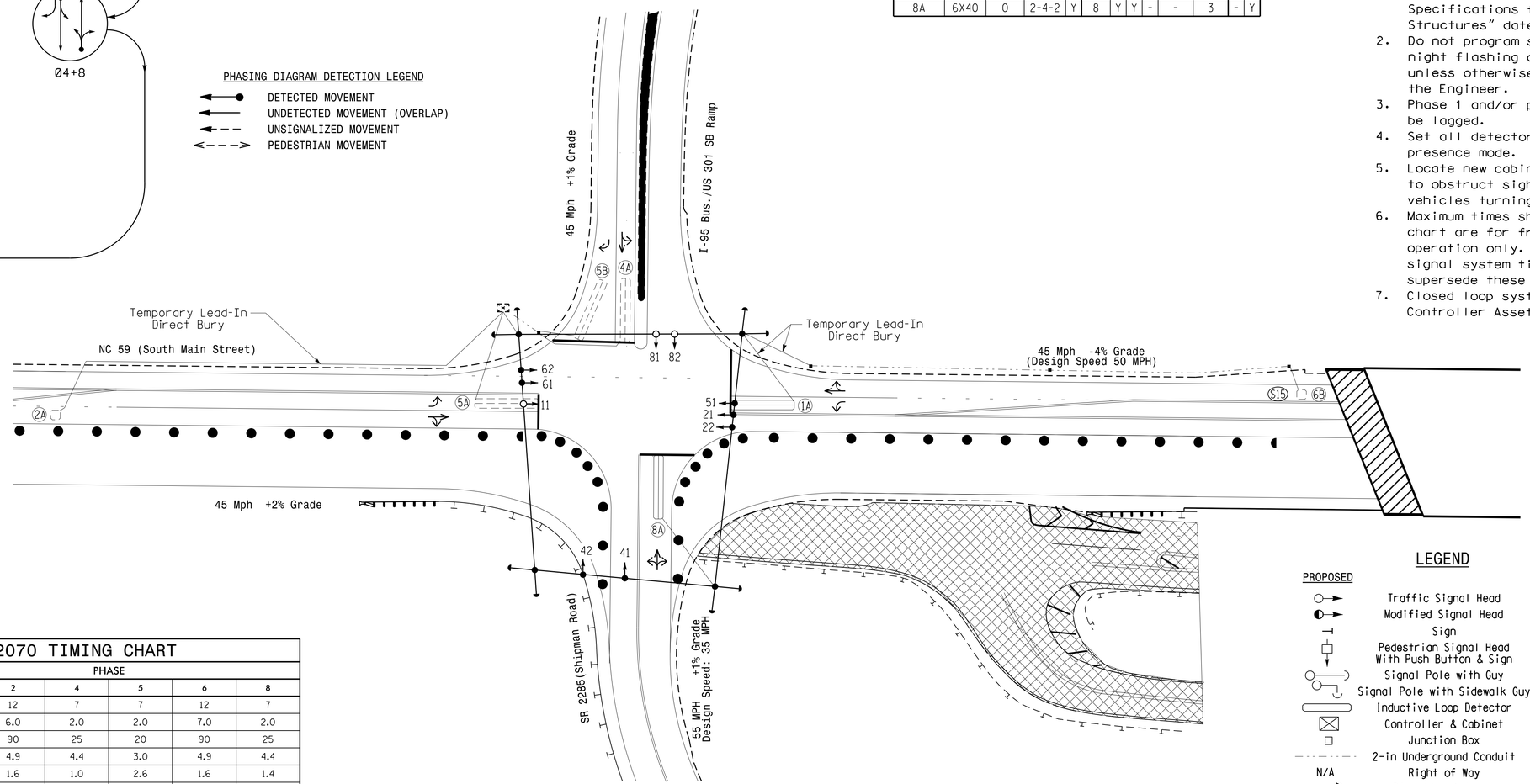
5 Phase
Fully Actuated
NC 59 Closed Loop System

## 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.
3. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
7. Closed loop system data: Controller Asset #0946.

PHASING DIAGRAM DETECTION LEGEND

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




## 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 | |
| N/A | Construction Zone Drums | |
| N/A | Concrete Barrier | |
| | Construction Zone | |

## OASIS 2070 TIMING CHART

| FEATURE | PHASE 1 | 2 | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|---|
| Min Green 1 * | 7 | 12 | 7 | 7 | 12 | 7 |
| Extension 1 * | 2.0 | 6.0 | 2.0 | 2.0 | 7.0 | 2.0 |
| Max Green 1 * | 20 | 90 | 25 | 20 | 90 | 25 |
| Yellow Clearance | 3.0 | 4.9 | 4.4 | 3.0 | 4.9 | 4.4 |
| Red Clearance | 2.2 | 1.6 | 1.0 | 2.6 | 1.6 | 1.4 |
| Red Revert | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Walk 1 * | - | - | - | - | - | - |
| Don't Walk 1 | - | - | - | - | - | - |
| Seconds Per Actuation * | - | 2.5 | - | - | 2.5 | - |
| Max Variable Initial * | - | 34 | - | - | 40 | - |
| Time Before Reduction * | - | 15 | - | - | 15 | - |
| Time To Reduce * | - | 30 | - | - | 30 | - |
| Minimum Gap | - | 3.0 | - | - | 3.0 | - |
| Recall Mode | - | MIN RECALL | - | - | MIN RECALL | - |
| Vehicle Call Memory | - | YELLOW | - | - | YELLOW | - |
| Dual Entry | - | - | ON | - | - | ON |
| Simultaneous Gap | ON | ON | 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.

Signal Upgrade - Temporary 3 (Phase II-5)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

NC 59 (South Main Street)
at
I-95 Bus./US 301 SB Ramp /
SR 2285 (Shipman Road)

Division 6 Cumberland County Hope Mills

| | | | |
|---|---|---|---|
| PLAN DATE: | September 2017 | REVIEWED BY: | ZML |
| PREPARED BY: | M.E.LeBlanc | REVIEWED BY: | |

SCALE 0 40 1"=40'

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 042608 ENGINEER MEGHAN E. LEBLANC

DocuSigned by: Meghan E. LeBlanc 11/28/2017
DATE

SIG. INVENTORY NO. 06-094613

04-DEC-2017 16:23
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melblanc