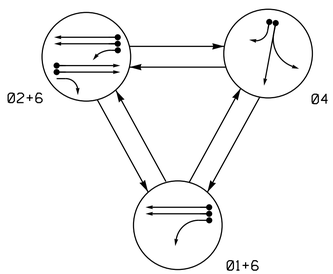
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| C-5558 | Sig. 126.0 |

## PHASING DIAGRAM




PHASING DIAGRAM DETECTION LEGEND

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

## TABLE OF OPERATION

| SIGNAL FACE | PHASE 01+6 | PHASE 02+6 | PHASE 04 | FLASH |
|---|---|---|---|---|
| 11 | ← | F Y | R | Y |
| 21, 22 | R | G | R | Y |
| 41, 42 | R | R | G | R |
| 61, 62 | G | G | R | Y |

## SIGNAL FACE I.D.

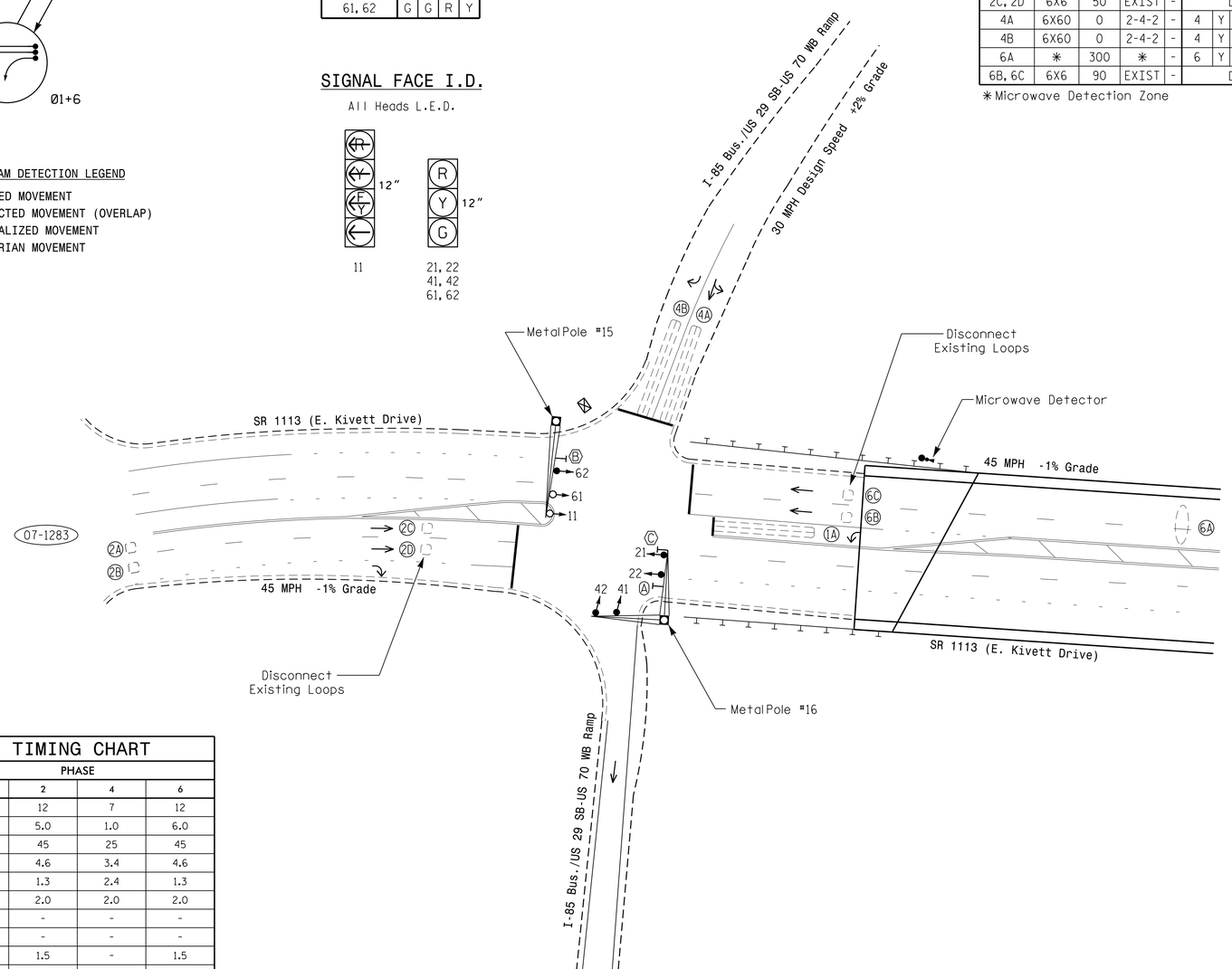
All Heads L.E.D.




## 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 | 6X60 | 0 | 2-4-2 | - | 1 | Y | Y | - | - | 15 | - | Y |
| | | | | | 6 | Y | Y | Y | - | 3 | - | Y |
| 2A, 2B | 6X6 | 220 | EXIST | - | 2 | Y | Y | - | - | - | - | Y |
| 2C, 2D | 6X6 | 50 | EXIST | - | DISCONNECT | | | | | | - | - |
| 4A | 6X60 | 0 | 2-4-2 | - | 4 | Y | Y | - | - | - | - | Y |
| 4B | 6X60 | 0 | 2-4-2 | - | 4 | Y | Y | - | - | 15 | - | Y |
| 6A | * | 300 | * | - | 6 | Y | Y | - | - | - | - | Y |
| 6B, 6C | 6X6 | 90 | EXIST | - | DISCONNECT | | | | | | - | - |

* Microwave Detection Zone




## OASIS 2070 TIMING CHART

| FEATURE | PHASE 1 | PHASE 2 | PHASE 4 | PHASE 6 |
|---|---|---|---|---|
| Min Green 1 * | 7 | 12 | 7 | 12 |
| Extension 1 * | 1.0 | 5.0 | 1.0 | 6.0 |
| Max Green 1 * | 15 | 45 | 25 | 45 |
| Yellow Clearance | 3.0 | 4.6 | 3.4 | 4.6 |
| Red Clearance | 2.8 | 1.3 | 2.4 | 1.3 |
| Red Revert | 2.0 | 2.0 | 2.0 | 2.0 |
| Walk 1 * | - | - | - | - |
| Don't Walk 1 | - | - | - | - |
| Seconds Per Actuation * | - | 1.5 | - | 1.5 |
| Max Variable Initial * | - | 26 | - | 34 |
| Time Before Reduction * | - | 15 | - | 15 |
| Time To Reduce * | - | 30 | - | 30 |
| Minimum Gap | - | 3.0 | - | 3.0 |
| Recall Mode** | - | SOFT RECALL | - | SOFT RECALL |
| Vehicle Call Memory | - | YELLOW | - | YELLOW |
| Dual Entry | - | - | - | - |
| Simultaneous Gap | 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.

** May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer.

3 Phase
Fully Actuated
(High Point 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. Phase 1 may be lagged.
4. Reposition existing signal head numbered 62.
5. Disconnect existing loops 2C, 2D, 6B and 6C.
6. Set all detector units to presence mode.
7. 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.
8. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
9. Pavement markings are existing.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

## 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 | |
| N/A | Guardrail | |
| | Microwave Detector | |
| | Microwave Detection Zone | |
| Ⓐ | Right Arrow "ONLY" Sign (R3-5R) | Ⓐ |
| Ⓑ | No Right Turn Sign (R3-1) | Ⓑ |
| Ⓒ | No Left Turn Sign (R3-2) | Ⓒ |

Signal Upgrade

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

SCALE 0 40 1"=40'

SR 1113 (E. Kivett Drive)
at
I-85 Bus./US 29 SB-US 70 WB Ramps

Division 7 Guilford County High Point

PLAN DATE: March 2014 PREPARED BY: R.N. Zinser
PREPARED BY: T. L. Averette REVIEWED BY:

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZIEMBA

DocuSigned by:
SIGNATURE 4/10/2015 DATE

SIG. INVENTORY NO. 07-1578

10-APR-2015 13:02
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