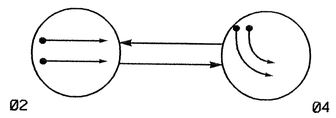
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-4008 | SIG.14 |

## PHASING DIAGRAM




**PHASING DIAGRAM DETECTION LEGEND**

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

## TABLE OF OPERATION

| SIGNAL FACE | PHASE Ø2 | PHASE Ø4 | FLASH |
|---|---|---|---|
| 21, 22 | G | R | Y |
| 41, 42 | R | G | R |

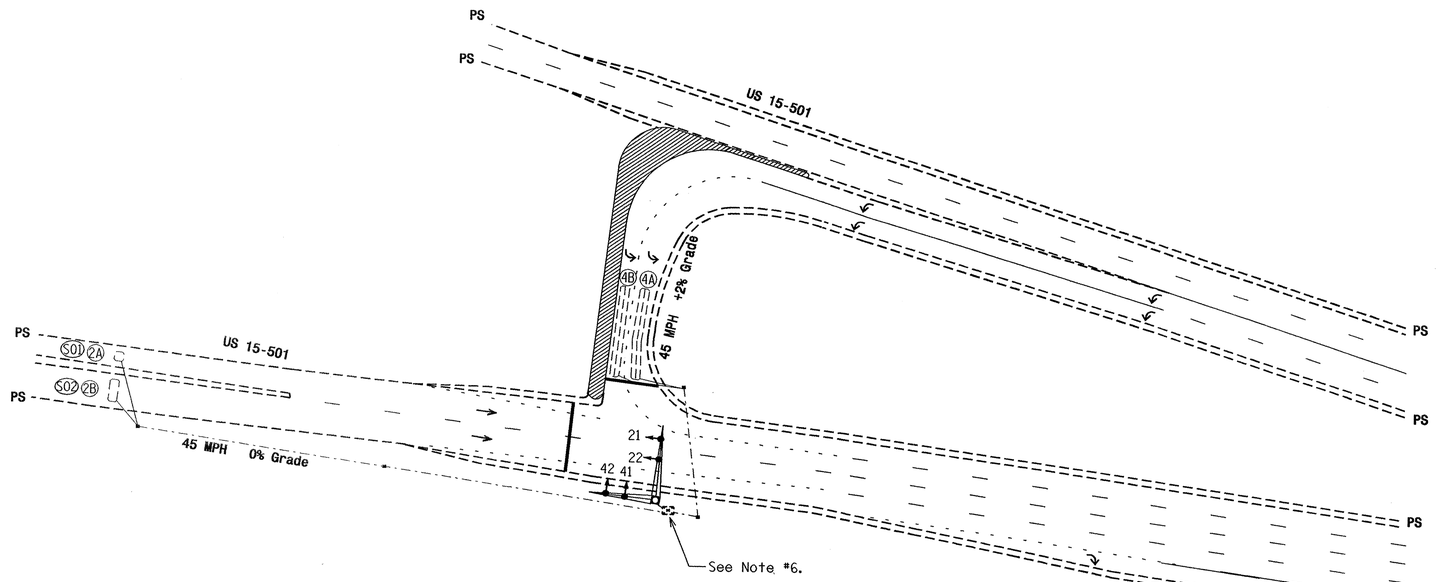
## SIGNAL FACE I.D.

Denotes L.E.D.

21, 22
41, 42

## 2070L LOOP & DETECTOR INSTALLATION

| INDUCTIVE LOOPS | | | | | DETECTOR PROGRAMMING | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LOOP | SIZE (FT) | TURNS | DISTANCE FROM STOPBAR (FT) | NEW LOOP | PHASE | CALLING | EXTENSION | FULL TIME DELAY SYSTEM LOOP | STRETCH TIME | DELAY TIME | NEW CARD |
| 2A/S01 | 6X6 | 4 | 300 | - | 2 | Y | Y | - Y | - | - | - |
| 2B/S02 | 6X15 | 4 | 300 | - | 2 | Y | Y | - Y | - | - | - |
| 4A | 6X60 | 2-4-2 | 0 | - | 4 | Y | Y | - - | - | - | - |
| 4B | 6X60 | 2-4-2 | 0 | - | 4 | Y | Y | - - | - | - | - |




## 2070L TIMING CHART

| FEATURE | PHASE 2 | PHASE 4 |
|---|---|---|
| Min Green 1 * | 12 | 7 |
| Extension 1 * | 6.0 | 1.0 |
| Max Green 1 * | 90 | 25 |
| Yellow Clearance | 4.7 | 4.0 |
| Red Clearance | 1.5 | 2.0 |
| Walk 1 * | - | - |
| Don't Walk 1 | - | - |
| Seconds Per Actuation * | 1.5 | - |
| Max Variable Initial * | 34 | - |
| Time Before Reduction * | 15 | - |
| Time To Reduce * | 45 | - |
| 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.

2 Phase
Fully Actuated
Chapel Hill Closed Loop System

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
4. Set all detector units to presence mode.
5. Closed loop system data: Controller Asset #2065.
6. Remove GPS Unit and deliver it to the Division 7 Traffic Services Office.

## PLAN QUANTITIES

| Pay Item | Feet |
|---|---|
| Signal Cable | 0 |
| Messenger Cable | 0 |
| Lead-in Cable | 0 |

## 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 | |
| | Pavement Marking Arrow | |
| | Metal Pole with Mastarm | |

Final Installation

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch
Signals and Geometric Section
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
1122 N. McDowell St., Raleigh, NC 27603

# US 15-501 Southbound U-Turn .14 Miles South of SR 1734 (Erwin Road)

Division 07 Orange County Chapel Hill

PLAN DATE: August 2004 REVIEWED BY: J Galloway
PREPARED BY: TDB/TSB REVIEWED BY:

SCALE 0 50 1"=50'

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 24393 ENGINEER TIMOTHY J. WILLIAMS
SIGNATURE 9/7/04 DATE

SIG. INVENTORY NO. 07-2065

03-SEP-2004 10:09
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jgalloway