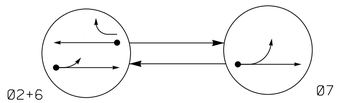
DocuSign Envelope ID: B2F2A2F4-4C98-45DC-A3DB-2AC75705C508

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-5818 | Sig. 8.0 |

## PHASING DIAGRAM




PHASING DIAGRAM DETECTION LEGEND

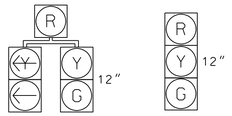
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

## TABLE OF OPERATION

| SIGNAL FACE | PHASE Ø2+6 | PHASE Ø7 | FLASH |
|---|---|---|---|
| 21 | G | G | Y |
| 22 | G | G | Y |
| 61,62 | G | R | Y |

## SIGNAL FACE I.D.

All Heads L.E.D.




## OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

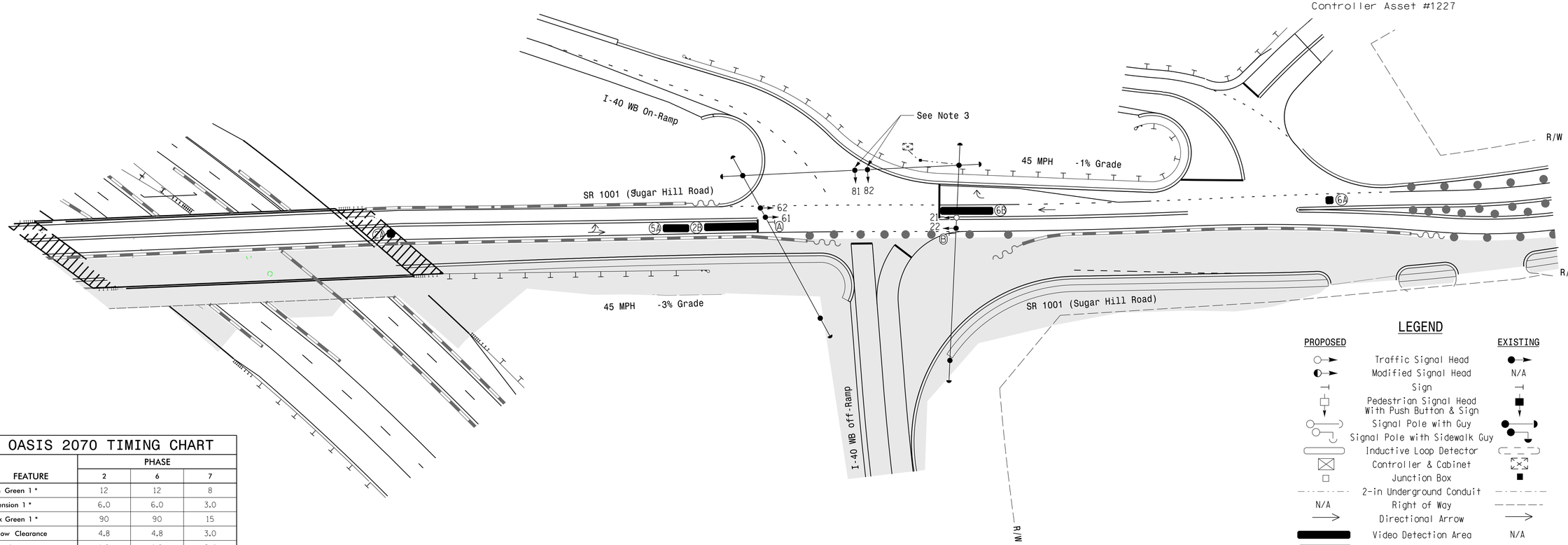
| INDUCTIVE LOOPS | | | | | DETECTOR PROGRAMMING | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PHASE | CALLING | EXTENSION | FULL TIME DELAY | STRETCH TIME | DELAY TIME | SYSTEM LOOP | NEW CARD |
| 2A | 6X6 | 300 | * | * | 2 | Y | Y | - | - | - | - | * |
| 2B | 6X40 | 0 | * | * | 2 | Y | Y | Y | 2.0 | 5 | - | * |
| 5A | 6X20 | 50 | * | * | 7 | Y | Y | - | - | 15 | - | * |
| 6A | 6X6 | 300 | * | * | 6 | Y | Y | - | - | - | - | * |
| 6B | 6X40 | 0 | * | * | 6 | Y | Y | Y | 2.0 | 5 | - | * |

*Video Detection Area.
Camera locations should be confirmed in the field by the contractor in order to provide detection of the areas indicated.

# 2 Phase
# Fully Actuated
# SR 1001 (Sugar Hill Rd) CLS

## 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. Disconnect and cover existing signal heads numbered # 81 and 82.
4. Reposition existing signal heads numbered #22, 61, and 62.
5. Set all detector units to presence mode.
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 #1227




## 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 | |
| | Video Detection Area | N/A |
| | Construction Zone | N/A |
| | Drums | N/A |
| A | No Left Turn Sign (R3-2) | A |
| B | No Right Turn Sign (R3-1) | B |

## OASIS 2070 TIMING CHART

| FEATURE | PHASE 2 | PHASE 6 | PHASE 7 |
|---|---|---|---|
| Min Green 1 * | 12 | 12 | 8 |
| Extension 1 * | 6.0 | 6.0 | 3.0 |
| Max Green 1 * | 90 | 90 | 15 |
| Yellow Clearance | 4.8 | 4.8 | 3.0 |
| Red Clearance | 1.8 | 1.8 | 2.4 |
| Red Revert | 2.0 | 2.0 | 2.0 |
| Walk 1 * | - | - | - |
| Don't Walk 1 | - | - | - |
| Seconds Per Actuation * | - | - | - |
| Max Variable Initial * | - | - | - |
| 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 | - | - | - |
| Dual Entry | - | - | - |
| Simultaneous Gap | 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 Design 3 - TMP Phase III - Step 1

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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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

SCALE 0 40 1"=40'

SR 1001 (Sugar Hill Road) at I-40 Westbound Ramps

Division 13 McDowell County Marion

| PLAN DATE: | January 2019 | REVIEWED BY: | R Muncey |
|---|---|---|---|
| PREPARED BY: | G Spell | REVIEWED BY: | D Harris |

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

NORTH CAROLINA PROFESSIONAL SEAL 43239 ENGINEER REGINA M. MUNCEY

Designed by: Regina M. Muncey 2/5/2019
SIGNATURE DATE

SIG. INVENTORY NO. 13-1227T3

2/5/2019
01:25:46 PM
U:\Projects\Signals\Design\Signal Design\Temporary Design\U-5818_sig_dsn_13-1227t3.dgn
User:rmuncey