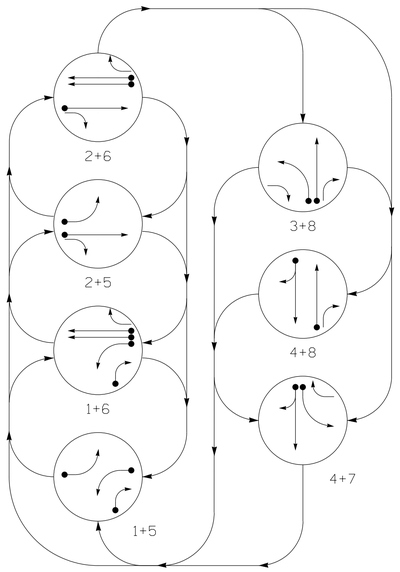
Docusign Envelope ID: 68D05315-339F-8877-826C-A54DFA71DCDF

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-3422B | Sig-4.3 |

## PHASING DIAGRAM




PHASING DIAGRAM DETECTION LEGEND

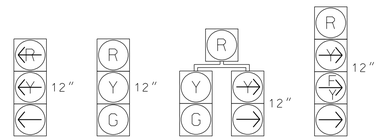
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

## TABLE OF OPERATION

| SIGNAL FACE | PHASE 1+5 | 1+6 | 2+5 | 2+6 | 3+8 | 4+7 | 4+8 | FLASH |
|---|---|---|---|---|---|---|---|---|
| 11,12 | ↚ | ↚ | R | R | R | R | R | R |
| 21,22,24 | R | R | G | G | R | R | R | R |
| 23 | R | R | F | F | → | R | R | R |
| 31 | R | R | R | R | ↚ | R | R | R |
| 41,42 | R | R | R | R | R | G | G | R |
| 51,52 | ↚ | R | ↚ | R | R | R | R | R |
| 61 | R | G | R | G | R | R | R | R |
| 62 | R | G | R | G | R | R | R | R |
| 71 | R | R | R | R | ↚ | R | R | R |
| 81 | R | R | R | R | G | R | G | R |
| 82 | R | R | R | R | G | R | G | R |

## SIGNAL FACE I.D.

All Heads L.E.D.




## MAXTIME DETECTOR INSTALLATION CHART

| DETECTOR ZONE | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PROGRAMMING CALL PHASE | DELAY TIME | EXTEND TIME | EXTEND | ADDED INITIAL | CALL | DELAY DURING GREEN | NEW CARD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 6X40 | 0 | ** | X | 1 | 3.0 | - | X | - | X | - | ** |
| 1B | 6X40 | 0 | ** | X | 1 | 15.0 | - | X | - | X | - | ** |
| 2A | @ | @ | ** | X | 2 | - | - | X | - | X | - | ** |
| 3A | 6X40 | 0 | ** | X | 3 | - | - | X | - | X | - | ** |
| 4A | 6X40 | 0 | ** | X | 4 | - | - | X | - | X | - | ** |
| 5A | 6X40 | 0 | ** | X | 5 | 3.0 | - | X | - | X | - | ** |
| 5B | 6X40 | 0 | ** | X | 5 | 15.0 | - | X | - | X | - | ** |
| 6A | @ | @ | ** | X | 6 | - | - | X | - | X | - | ** |
| 7A | 6X40 | 0 | ** | X | 7 | - | - | X | - | X | - | ** |
| 8A | 6X40 | 0 | ** | X | 8 | - | - | X | - | X | - | ** |

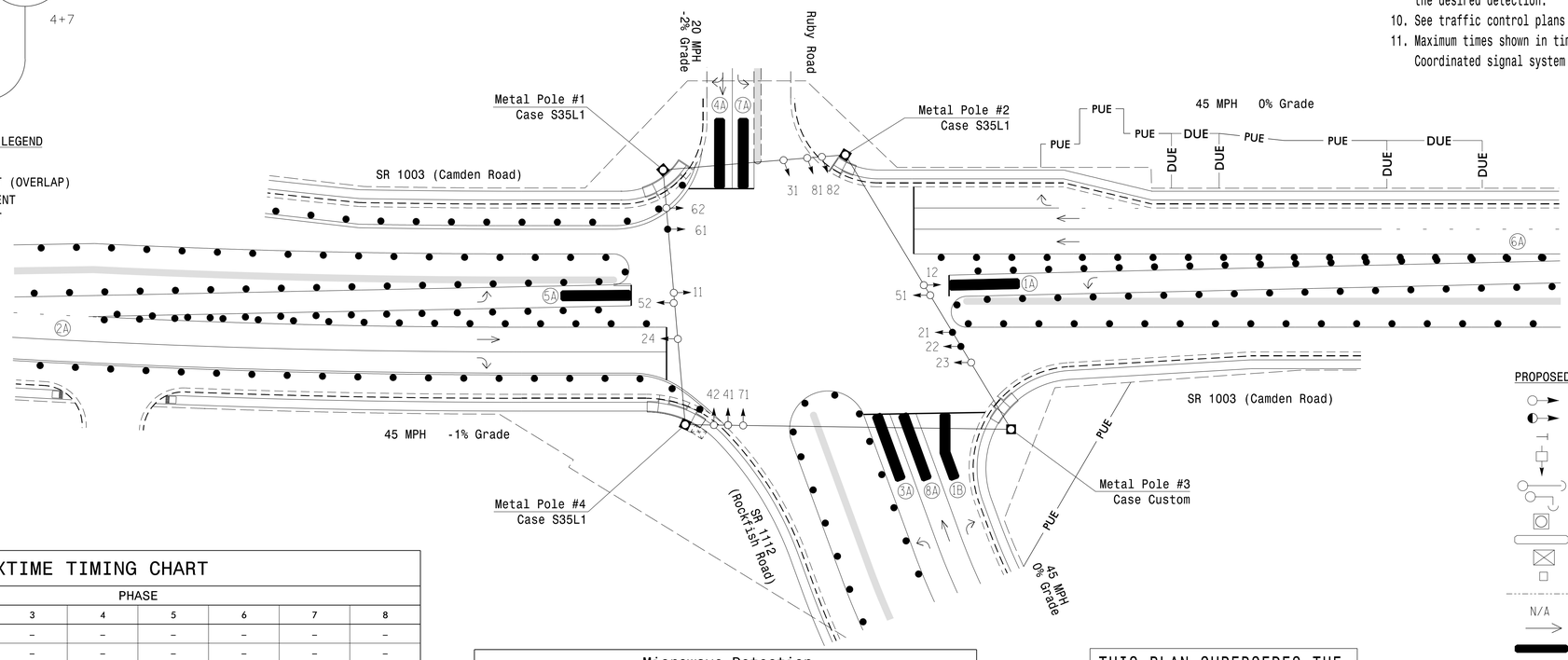
** Microwave Detection Zone

@ Size and distance vary. See Microwave Detection chart for more details.

7 Phase
Fully Actuated
Camden Road CLS

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
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. The order of phase 3 and phase 7 may be reversed, but phase 3 and phase 7 shall not operate simultaneously.
5. Remove existing signal head numbered 83.
6. Relabel existing signal head numbered 62 to 61.
7. Reposition existing signal heads numbered 21, 22 and 61.
8. Set all detector units to presence mode.
9. This intersection uses multi-zone microwave detection. Install detector according to the manufacturer's instructions to achieve the desired detection.
10. See traffic control plans for stop line locations.
11. 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 | ● |
| ◯ | Metal Strain Pole | ■ |
| ▭ | Inductive Loop Detector | ▭ |
| ⊠ | Controller & Cabinet | ⊠ |
| □ | Junction Box | ■ |
| ---- | 2-in Underground Conduit | -·-·- |
| N/A | Right of Way | ——— |
| → | Directional Arrow | → |
| ▬ | Non-Intrusive Detection Zone | ▬ |
| ▒ | Construction Zone | N/A |
| ●● | Construction Zone Drums | N/A |
| PUE | Proposed Utility Easement | N/A |
| DUE | Drainage Utility Easement | N/A |

## MAXTIME TIMING CHART

| FEATURE | PHASE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Walk * | – | – | – | – | – | – | – | – |
| Ped Clear | – | – | – | – | – | – | – | – |
| Min Green * | 7 | 12 | 7 | 7 | 7 | 12 | 7 | 7 |
| Passage * | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Max 1 * | 15 | 90 | 15 | 20 | 15 | 90 | 15 | 20 |
| Yellow Change | 3.0 | 4.6 | 3.0 | 4.5 | 3.0 | 4.6 | 3.0 | 4.5 |
| Red Clear | 3.6 | 2.2 | 3.9 | 3.3 | 3.3 | 2.2 | 3.7 | 3.3 |
| Added Initial * | – | – | – | – | – | – | – | – |
| Maximum Initial * | – | – | – | – | – | – | – | – |
| Time Before Reduction * | – | – | – | – | – | – | – | – |
| Time To Reduce * | – | – | – | – | – | – | – | – |
| Minimum Gap | – | – | – | – | – | – | – | – |
| Advance Walk | – | – | – | – | – | – | – | – |
| Non Lock Detector | X | – | X | X | X | – | X | X |
| Vehicle Recall | – | MIN RECALL | – | – | – | MIN RECALL | – | – |
| Dual Entry | – | – | – | – | – | – | – | – |

* 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.

## Microwave Detection

| FUNCTION | 2A Sensor 1 | | | 6A Sensor 2 | | |
|---|---|---|---|---|---|---|
| Channel | 1 | | | 1 | | |
| Phase | 2 | | | 6 | | |
| Direction of Travel | EB | | | WB | | |
| Type | Priority | | | Priority | | |
| Level | 1 | 2 | QUEUE | 1 | 2 | QUEUE |
| Discovery Zone (ft) | >= 750 | < 750 | - | >= 750 | < 750 | - |
| Range (ft) | 900-100 | 600-100 | 150-100 | 900-100 | 600-100 | 150-100 |
| Enable Speed | Y | Y | Y | Y | Y | Y |
| Speed Range (mph) | 35-100 | 35-100 | 1-35 | 35-100 | 35-100 | 1-35 |
| Enable Estimated Time of Arrival | Y | Y | N | Y | Y | N |
| Estimated Time of Arrival (sec) | 2.5-10.0 | 2.5-6.5 | - | 2.5-10.0 | 2.5-6.5 | - |

THIS PLAN SUPERSEDES THE PLAN SEALED ON 12/22/2023

Plans Prepared By:

DRMP

DRMP, Inc.
8210 University Executive Park Dr, Suite 220
Charlotte, NC 28262
NC License No. F-1524 (704) 549-4260

Signal Upgrade
Temporary Design 2 - (TMP Phase III)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SR 1003 (Camden Road)
at
SR 1112 (Rockfish Road)

Division 6 Cumberland County Hope Mills

PLAN DATE: September 2026 REVIEWED BY: BN Groome
PREPARED BY: DS Griffith DRMP PROJ. NO.: 24941 (040)

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

SCALE 0 40 1"=40'

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 052936 ENGINEER BRITTANY N GROOME
Signed by: Brittany Groome
1E093A0E1094484...
09/11/2026
SIGNATURE DATE

SIG. INVENTORY NO. 06-1412T2