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

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-3422B | Sig-6.5 |

# MAXTIME ALTERNATE PHASING ACTIVATION DETAIL

To run alternate phasing, select a Pattern that is programmed to run Overlap Plan 2 and Detector Plan 2.
A Pattern can be selected through the scheduler or manually by changing the Operational Mode.

| PHASING | OVERLAP PLAN | VEH DET PLAN |
|---|---|---|
| ACTIVE PLAN REQUIRED TO RUN DEFAULT PHASING | 1 | 1 |
| ACTIVE PLAN REQUIRED TO RUN ALTERNATE PHASING | 2 | 2 |

## ALTERNATE PHASING CHANGE SUMMARY

THE FOLLOWING IS A SUMMARY OF WHAT TAKES PLACE WHEN OVERLAP 2 AND VEHICLE DETECTOR PLAN 2 ACTIVATE TO CALL THE "ALTERNATE PHASING":

OVERLAP PLAN 2: Modifies overlap included phases for heads 31 and 32 to run protected turns only.

VEH DET PLAN 2: Reduces delay time for phase 3 call on loop 3A to 0 seconds.

# MAXTIME STARTUP AND SOFTWARE FLASH PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Unit

Web Interface
Home >Controller >Unit

Modify parameters as shown below and save changes.

| Start Up Parameters | Unit Flash Parameters |
|---|---|
| StartUp Clearance Hold | All Red Flash Exit Time |
| 6 | 6 |

# MAXTIME OVERLAP PROGRAMMING DETAIL FOR ALTERNATE PHASING

Front Panel
Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface
Home >Controller >Overlap Configuration >Overlaps

In the table view of the web interface, right click on "Overlap" in the top left corner of the table. Copy the entire contents of Overlap Plan 1. Paste Overlap Plan 1 into Overlap Plan 2. Modify Overlap Plan 2 as shown below and save changes.

Overlap Plan 2

| Overlap | 1 | 2 | 7 |
|---|---|---|---|
| Type | FYA 4-Section | FYA 4-Section | Normal |
| Included Phases | - | - | 3 |
| Modifier Phases | 3 | 3 | - |
| Modifier Overlap | - | - | - |
| Trail Green | 0 | 0 | 0 |
| Trail Yellow | 0.0 | 0.0 | 0.0 |
| Trail Red | 0.0 | 0.0 | 0.0 |
| FYA Ped Delay | 0.0 | 0.0 | 0.0 |

← NOTICE INCLUDED PHASE

# SDLC NON-INTRUSIVE DETECTION CHART

| | Detector Rack #3 | | Detector Rack #4 | |
|---|---|---|---|---|
| Input Point | Det # (Index) | Detector Zone | Det # (Index) | Detector Zone |
| 1 | 33 | NU | 49 | NU |
| 2 | 34 | 3A | 50 | NU |
| 3 | 35 | NU | 51 | NU |
| 4 | 36 | NU | 52 | NU |
| 5 | 37 | NU | 53 | NU |
| 6 | 38 | NU | 54 | 6A |
| 7 | 39 | NU | 55 | NU |
| 8 | 40 | NU | 56 | NU |
| 9 | 41 | NU | 57 | NU |
| 10 | 42 | NU | 58 | NU |
| 11 | 43 | NU | 59 | NU |
| 12 | 44 | NU | 60 | 8A |
| 13 | 45 | NU | 61 | NU |
| 14 | 46 | NU | 62 | NU |
| 15 | 47 | NU | 63 | NU |
| 16 | 48 | NU | 64 | NU |

NU = Not Used

# MAXTIME DETECTOR PROGRAMMING DETAIL FOR ALTERNATE PHASING LOOP 3A

Front Panel
Main Menu >Controller >Detector >Veh Det Plans

Web Interface
Home >Controller >Detector Configuration >Vehicle Detectors

In the table view of web interface right click on "Detector" in the top left corner of the table. Copy the entire contents of Detector Plan 1. Paste Detector Plan 1 into Detector Plan 2. Modify Detector Plan 2 as shown below and save changes.

Plan 2

| Detector | Call Phase | Delay |
|---|---|---|
| 34 | 3 | 0.0 |

3A

# MAXTIME OVERLAP PROGRAMMING DETAIL FOR DEFAULT PHASING

Front Panel
Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface
Home >Controller >Overlap Configuration >Overlaps

Overlap Plan 1

| Overlap | 1 | 2 | 7 |
|---|---|---|---|
| Type | FYA 4-Section | FYA 4-Section | Normal |
| Included Phases | 6 | 6 | 3 |
| Modifier Phases | 3 | 3 | - |
| Modifier Overlap | - | - | - |
| Trail Green | 0 | 0 | 0 |
| Trail Yellow | 0.0 | 0.0 | 0.0 |
| Trail Red | 0.0 | 0.0 | 0.0 |
| FYA Ped Delay | 7.0 | 7.0 | 0.0 |

← NOTICE PED DELAY

NOTICE OVERLAP 7 ASSIGNED TO CHANNEL 1 →

# MAXTIME ALTERNATE PHASING PATTERN PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Coordination >Patterns

Web Interface
Home >Controller >Coordination >Patterns

Pattern Parameters

| Pattern | Veh Det Plan | Overlap Plan |
|---|---|---|
| * | 2 | 2 |

* The Pattern number(s) are to be determined by the Division Traffic Engineer.

Plans Prepared By:

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# SPECIAL DETECTION IO MODULE PROGRAMMING

The Enhanced Out of Pavement Detection requires adjustments to the IO Modules in use. Follow the programming instructions below to ensure desired operation.

Front Panel
Main Menu >Controller >More >Advanced IO >IO Modules

Web Interface
Home >Controller >Advanced IO >Cabinet Configuration >IO Modules

IO Module 1

| IO Module | Type | Fault Response |
|---|---|---|
| 1 | Caltrans 332 | Default |
| 2 | TS2 DR3 BIU | Default |
| 3 | TS2 DR4 BIU | Default |
| 4 | TS2 MMU | Default |

Advanced Cabinet Options

☑ Disable TS2 Cabinet Alarms

# OUTPUT CHANNEL CONFIGURATION

Front Panel
Main Menu >Controller >More>Channels>Channels Config

Web Interface
Home >Controller >Advanced IO>Channels>Channel Configuration

Channel Configuration

| Channel | Control Type | Control Source | Flash Yellow | Flash Red | Flash Alt | MMU Channel |
|---|---|---|---|---|---|---|
| 1 | Overlap | 7 | | X | X | 1 |
| 2 | Phase Vehicle | 2 | | X | | 2 |
| 3 | Phase Vehicle | 3 | | X | X | 3 |
| 4 | Phase Vehicle | 4 | | X | | 4 |
| 5 | Phase Vehicle | 5 | | X | | 5 |
| 6 | Phase Vehicle | 6 | | X | X | 6 |
| 7 | Phase Vehicle | 7 | | X | | 7 |
| 8 | Phase Vehicle | 8 | | X | X | 8 |
| 9 | Overlap | 1 | | X | X | 9 |
| 10 | Overlap | 2 | | X | X | 10 |
| 11 | Overlap | 3 | | X | | 11 |
| 12 | Overlap | 4 | | X | | 12 |
| 13 | Phase Ped | 2 | | | | 13 |
| 14 | Phase Ped | 4 | | | | 14 |
| 15 | Phase Ped | 6 | | | | 15 |
| 16 | Phase Ped | 8 | | | | 16 |
| 17 | Overlap | 5 | | X | X | 17 |
| 18 | Overlap | 6 | | X | | 18 |

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

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 06-1406
DESIGNED: Sep 2026
SEALED: 09/11/2026
REVISED: N/A

Electrical Detail - Sheet 2 of 2
Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for:
NC Department of Transportation Mobility and Safety Division Traffic Engineering Branch Signals Management Section

750 N.Greenfield Pkwy,Garner,NC 27529

SR 1003 (Camden Road) WB
at
Ellis Jackson Road

Division 6 Cumberland County Hope Mills

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

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 052936 ENGINEER BRITTANY N GROOME

Signed by: Brittany Groome 1E09534DE1044484...
09/11/2026
SIGNATURE DATE

SIG. INVENTORY NO. 06-1406