

3/10/2025  
R:\Traffic\cws\signal\electrical\Detail\sew05-1916T3e-00-220.dgn  
wpjones

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               | 3               |
|-------------------|-----------------|-----------------|-----------------|
| Type              | FYA 4 - Section | FYA 4 - Section | FYA 4 - Section |
| Included Phases   | 2               | 4               | 6               |
| Modifier Phases   | 1               | -               | 5               |
| Modifier Overlaps | -               | -               | -               |
| Trail Green       | 0               | 0               | 0               |
| Trail Yellow      | 0.0             | 0.0             | 0.0             |
| Trail Red         | 0.0             | 0.0             | 0.0             |

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               | 3               |
|-------------------|-----------------|-----------------|-----------------|
| Type              | FYA 4 - Section | FYA 4 - Section | FYA 4 - Section |
| Included Phases   | -               | 4               | -               |
| Modifier Phases   | 1               | -               | 5               |
| Modifier Overlaps | -               | -               | -               |
| Trail Green       | 0               | 0               | 0               |
| Trail Yellow      | 0.0             | 0.0             | 0.0             |
| Trail Red         | 0.0             | 0.0             | 0.0             |

← NOTICE INCLUDED PHASE

FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

1. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
2. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

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<br>6 | All Red Flash Exit Time<br>6 |

MAXTIME DETECTOR PROGRAMMING DETAIL  
FOR ALTERNATE PHASING LOOPS 1A & 5A

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.

1A

| Plan 2 | Detector | Call Phase | Delay |
|--------|----------|------------|-------|
|        | 1        | 1          | 3.0   |
|        | 29       | 0          | 3.0   |

5A

| Detector | Call Phase | Delay |
|----------|------------|-------|
| 15       | 5          | 3.0   |
| 31       | 0          | 3.0   |

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 PLAN 2 AND VEHICLE DETECTOR PLAN 2 ACTIVATE TO CALL THE "ALTERNATE PHASING":

OVERLAP PLAN 2: Modifies overlap included phases for heads 11 and 51 to run protected turns only.

VEH DET PLAN 2: Disables phase 6 call on loop 1A and reduces delay time for phase 1 call on loop 1A to 3 seconds.

Disables phase 2 call on loop 5A and reduces delay time for phase 5 call on loop 5A to 3 seconds.

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 and/or Town Traffic Engineer.

THIS ELECTRICAL DETAIL IS FOR  
THE SIGNAL DESIGN: 05-1916T3  
DESIGNED: March 2025  
SEALED: March 10, 2025  
REVISED:

SIGNAL UPGRADE - TEMPORARY DESIGN 3  
(CONSTRUCTION PHASE IV STEP 2 THRU STEP 3)  
ELECTRICAL DETAIL - SHEET 2 OF 2

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**RK&K**  
P: (919) 878-9560  
8601 Six Forks Road, Forum 1, Suite 700  
Raleigh, North Carolina 27615-3960  
NC License No. F-0112  
Engineers | Construction Managers | Planners | Scientists  
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ELECTRICAL AND PROGRAMMING  
DETAILS FOR:

Prepared for the Offices of:



750 N. Greenfield Pkwy, Garner, NC 27529

SR 2052 (ROGER RD.)  
AT  
HERITAGE BRANCH RD  
AND HERITAGE POINTE SHOPPES

|                       |                     |             |
|-----------------------|---------------------|-------------|
| DIVISION 5            | WAKE COUNTY         | WAKE FOREST |
| PLAN DATE: MARCH 2025 | REVIEWED BY: DSEARS |             |
| PREPARED BY: WPJONES  | REVIEWED BY:        |             |
| REVISIONS             | INIT.               | DATE        |
|                       |                     |             |
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SEAL  
NORTH CAROLINA  
PROFESSIONAL  
SEAL  
044558  
ENGINEER  
DAVID T. SEARS

*David T. Sears*  
059183F28E5741E  
SIGNATURE  
DATE  
3/10/2025  
SIG. INVENTORY NO. 05-1916T3