

### EMERGENCY VEHICLE PREEMPTION PROGRAMMING DETAIL

(program controller as shown below)

From Main Menu press 'A' (Preemption), then '1' (Standard Preemptions). Press 'NEXT' as needed to advance to Preempts 3, 4, 5 and 6.

PREEMPTION #3 SETTINGS (NEXT:1-10)	
INTERVAL/TIMING	CLEAR/DWELL PHASES
GRN YEL RED	12345678910111213141516
1 255 0.0 0.0	X X
2 0 0.0 0.0	
3 0 0.0 0.0	
4 0 0.0 0.0	
5 1 0.0 0.0	X X

  

EXIT CALLS	
OPTIONS	
PRIORITY (Y/N TO SELECT)	.....MED
DELAY TIMER (0-255 SEC)	.....0
MIN GREEN BEFORE PRE (0= DEFAULT)	....1
PED CLEAR BEFORE PRE (0= DEFAULT)	....0*
YELLOW CLEAR BEFORE PRE (0= DEFAULT)	....0.0
RED CLEAR BEFORE PRE (0= DEFAULT)	....0.0
DWELL MIN TIMER (0-255 SEC)	.....7
DWELL MAX TIMER (0=OFF,1-255MIN)	....2
DWELL HOLD-OVER TIMER (0-255)	.....0
LATCH CALL?	.....N
LINK TO NEXT PREEMPT?	.....N
ENABLE BACKUP PROTECTION?	.....N
HOLD CLEAR 1 PHASES DURING DELAY?	....N
FAST GREEN FLASH DWELL PHASES?	....N
PED CLEARANCE THROUGH YELLOW?	.....Y
INHIBIT OVERLAP GREEN EXTENSION?	....N
SERVICE DURING SOFTWARE FLASH?	....N
REST IN RED DURING DWELL INTERVAL?	..N
FLASH DWELL INTERVAL?	.....N
ALLOW PEDS IN DWELL INTERVAL?	.....N
RE-TIME DWELL INTERVAL?	.....N
OVERLAPS:	ABCDEFGHIJKLMNPO
DWELL INT FLASH YELLOW	
OMIT OVERLAPS:	

PRESS 'NEXT' ONCE

PREEMPTION #4 SETTINGS (NEXT:1-10)	
INTERVAL/TIMING	CLEAR/DWELL PHASES
GRN YEL RED	12345678910111213141516
1 255 0.0 0.0	X X
2 0 0.0 0.0	
3 0 0.0 0.0	
4 0 0.0 0.0	
5 1 0.0 0.0	X X

  

EXIT CALLS	
OPTIONS	
PRIORITY (Y/N TO SELECT)	.....MED
DELAY TIMER (0-255 SEC)	.....0
MIN GREEN BEFORE PRE (0= DEFAULT)	....1
PED CLEAR BEFORE PRE (0= DEFAULT)	....0*
YELLOW CLEAR BEFORE PRE (0= DEFAULT)	....0.0
RED CLEAR BEFORE PRE (0= DEFAULT)	....0.0
DWELL MIN TIMER (0-255 SEC)	.....7
DWELL MAX TIMER (0=OFF,1-255MIN)	....2
DWELL HOLD-OVER TIMER (0-255)	.....0
LATCH CALL?	.....N
LINK TO NEXT PREEMPT?	.....N
ENABLE BACKUP PROTECTION?	.....N
HOLD CLEAR 1 PHASES DURING DELAY?	....N
FAST GREEN FLASH DWELL PHASES?	....N
PED CLEARANCE THROUGH YELLOW?	.....Y
INHIBIT OVERLAP GREEN EXTENSION?	....N
SERVICE DURING SOFTWARE FLASH?	....N
REST IN RED DURING DWELL INTERVAL?	..N
FLASH DWELL INTERVAL?	.....N
ALLOW PEDS IN DWELL INTERVAL?	.....N
RE-TIME DWELL INTERVAL?	.....N
OVERLAPS:	ABCDEFGHIJKLMNPO
DWELL INT FLASH YELLOW	
OMIT OVERLAPS:	

PRESS 'NEXT' ONCE

PREEMPTION #5 SETTINGS (NEXT:1-10)	
INTERVAL/TIMING	CLEAR/DWELL PHASES
GRN YEL RED	12345678910111213141516
1 255 0.0 0.0	X X
2 0 0.0 0.0	
3 0 0.0 0.0	
4 0 0.0 0.0	
5 1 0.0 0.0	X X

  

EXIT CALLS	
OPTIONS	
PRIORITY (Y/N TO SELECT)	.....MED
DELAY TIMER (0-255 SEC)	.....0
MIN GREEN BEFORE PRE (0= DEFAULT)	....1
PED CLEAR BEFORE PRE (0= DEFAULT)	....0*
YELLOW CLEAR BEFORE PRE (0= DEFAULT)	....0.0
RED CLEAR BEFORE PRE (0= DEFAULT)	....0.0
DWELL MIN TIMER (0-255 SEC)	.....7
DWELL MAX TIMER (0=OFF,1-255MIN)	....2
DWELL HOLD-OVER TIMER (0-255)	.....0
LATCH CALL?	.....N
LINK TO NEXT PREEMPT?	.....N
ENABLE BACKUP PROTECTION?	.....N
HOLD CLEAR 1 PHASES DURING DELAY?	....N
FAST GREEN FLASH DWELL PHASES?	....N
PED CLEARANCE THROUGH YELLOW?	.....Y
INHIBIT OVERLAP GREEN EXTENSION?	....N
SERVICE DURING SOFTWARE FLASH?	....N
REST IN RED DURING DWELL INTERVAL?	..N
FLASH DWELL INTERVAL?	.....N
ALLOW PEDS IN DWELL INTERVAL?	.....N
RE-TIME DWELL INTERVAL?	.....N
OVERLAPS:	ABCDEFGHIJKLMNPO
DWELL INT FLASH YELLOW	
OMIT OVERLAPS:	

PRESS 'NEXT' ONCE

PREEMPTION #6 SETTINGS (NEXT:1-10)	
INTERVAL/TIMING	CLEAR/DWELL PHASES
GRN YEL RED	12345678910111213141516
1 255 0.0 0.0	X X
2 0 0.0 0.0	
3 0 0.0 0.0	
4 0 0.0 0.0	
5 1 0.0 0.0	X X

  

EXIT CALLS	
OPTIONS	
PRIORITY (Y/N TO SELECT)	.....MED
DELAY TIMER (0-255 SEC)	.....0
MIN GREEN BEFORE PRE (0= DEFAULT)	....1
PED CLEAR BEFORE PRE (0= DEFAULT)	....0*
YELLOW CLEAR BEFORE PRE (0= DEFAULT)	....0.0
RED CLEAR BEFORE PRE (0= DEFAULT)	....0.0
DWELL MIN TIMER (0-255 SEC)	.....7
DWELL MAX TIMER (0=OFF,1-255MIN)	....2
DWELL HOLD-OVER TIMER (0-255)	.....0
LATCH CALL?	.....N
LINK TO NEXT PREEMPT?	.....N
ENABLE BACKUP PROTECTION?	.....N
HOLD CLEAR 1 PHASES DURING DELAY?	....N
FAST GREEN FLASH DWELL PHASES?	....N
PED CLEARANCE THROUGH YELLOW?	.....Y
INHIBIT OVERLAP GREEN EXTENSION?	....N
SERVICE DURING SOFTWARE FLASH?	....N
REST IN RED DURING DWELL INTERVAL?	..N
FLASH DWELL INTERVAL?	.....N
ALLOW PEDS IN DWELL INTERVAL?	.....N
RE-TIME DWELL INTERVAL?	.....N
OVERLAPS:	ABCDEFGHIJKLMNPO
DWELL INT FLASH YELLOW	
OMIT OVERLAPS:	

PROGRAMMING COMPLETE

Program extend time on  
detector unit for 2.0 seconds.

\* Time defaults to time used for phase during normal operation.

### ALTERNATE PHASING ACTIVATION DETAIL

TO RUN ALT. PHASING DURING COORDINATION - SELECT ALL PAGE CHANGES (AS SHOWN BELOW) WITHIN COORDINATION PLAN PROGRAMMING.

TO RUN ALT. PHASING DURING FREE RUN - PROGRAM PAGE CHANGES (SHOWN BELOW) IN SEPARATE TIME OF DAY EVENTS. IF PAGE 1 IS USED, NO EVENT PROGRAMMING IS NECESSARY FOR THAT PARTICULAR PAGE.

PHASING	INPUTS PAGE	OVERLAPS PAGE
ACTIVE PAGES REQUIRED TO RUN <u>DEFAULT PHASING</u>	1	1
ACTIVE PAGES REQUIRED TO RUN <u>ALTERNATE PHASING</u>	2	2

NOTE: PAGES NOT SHOWN (i.e. sequence, phase control, etc.) SHOULD REMAIN AS '1', OR AS DEFINED BY TIMING ENGINEER.

**IMPORTANT:** IF ALT. PHASING IS USED DURING FREE RUN AND COORDINATION, DO NOT OPERATE TIME OF DAY PAGE CHANGE EVENTS CONCURRENTLY WITH COORDINATION PLAN EVENTS IN THE EVENT SCHEDULER. (EX. FREE RUN PAGE CHANGE EVENT SHOULD END BEFORE COORDINATION PLAN EVENT STARTS AND VICE-VERSA).

### ALTERNATE PHASING PAGE CHANGE SUMMARY

THE FOLLOWING IS A SUMMARY OF WHAT TAKES PLACE WHEN THESE OVERLAP/INPUT PAGE CHANGES ACTIVATE TO CALL THE "ALTERNATE PHASING":

**OVERLAPS PAGE 2:** Modifies overlap parent phases for head 11 to run protected turns only.

**INPUTS PAGE 2:** Disables phase 6 call on loop 1A and reduces delay time for phase 1 call on loop 1A to 0 seconds.

27-Jan-2022 15:12  
K00640.dwg  
C:\Users\jck10nd

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0640  
DESIGNED: January 2022  
SEALED: 1/27/2022  
REVISED: N/A

Electrical Detail - Sheet 7 of 7

ELECTRICAL AND PROGRAMMING DETAILS FOR: **US 601 (Jake Alexander Blvd S) at SR 2528 (Julian Rd) and Martin Luther King Jr Ave**

750 N. Greenfield Hwy, Garner, NC 27529

PLAN DATE: January 2022	REVIEWED BY: T. Joyce
PREPARED BY: C. Strickland	REVIEWED BY:

DocuSigned by:  
*D. Todd Joyce* 01/28/2022

SIC. INVENTORY NO. 09-0640

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031001

D. TODD JOYCE

DATE 01/28/2022

SIC. INVENTORY NO. 09-0640