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 EXIT CALLS PRIORITY (Y/N TO SELECT)MED DELAY TIMER (0-255 SEC) MIN GREEN BEFORE PRE (O= DEFAULT)....1 PED CLEAR BEFORE PRE (O= DEFAULT)....0* YELLOW CLEAR BEFORE PRE (0= DEFAULT).0.0 RED CLEAR BEFORE PRE (O= DEFAULT)....O.O 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: ABCDEFGHIJKLMNOP 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 PRIORITY (Y/N TO SELECT)MED DELAY TIMER (0-255 SEC) MIN GREEN BEFORE PRE (O= DEFAULT)....1 PED CLEAR BEFORE PRE (O= DEFAULT)....O* 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) LATCH CALL?N LINK TO NEXT PREEMPT? ENABLE BACKUP PROTECTION? 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? ... FLASH DWELL INTERVAL?N ALLOW PEDS IN DWELL INTERVAL?N RE-TIME DWELL INTERVAL? OVERLAPS: ABCDEFGHIJKLMNOP DWELL INT FLASH YELLOW OMIT OVERLAPS: PRESS 'NEXT' ONCE

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PREEMPTION #5 SETTINGS (NEXT: 1-10) 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) MIN GREEN BEFORE PRE (O= DEFAULT)....1 PED CLEAR BEFORE PRE (O= DEFAULT)....0* YELLOW CLEAR BEFORE PRE (0= DEFAULT).0.0 RED CLEAR BEFORE PRE (O= DEFAULT)....O.O 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: ABCDEFGHIJKLMNOP 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) MIN GREEN BEFORE PRE (O= DEFAULT)....1 PED CLEAR BEFORE PRE (O= DEFAULT)....0 YELLOW CLEAR BEFORE PRE (0= DEFAULT).0.0 RED CLEAR BEFORE PRE (0= DEFAULT)....O.O 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? OVERLAPS: ABCDEFGHIJKLMNOF DWELL INT FLASH YELLOW OMIT OVERLAPS:

PROGRAMMING COMPLETE

Program extend time on detector unit for 2.0 seconds.

ALTERNATE PHASING PAGE CHANGE SUMMARY

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

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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 PHASIN</u> G	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

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: Ø9-Ø64Ø DESIGNED: NOVEMBER 2021 SEALED: 12/3/2021 REVISED: N/A

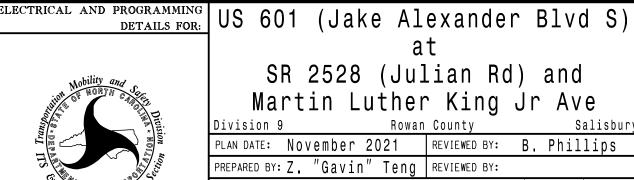
> PREPARED IN THE OFFICE OF: Accelerate Engineering, PLLC

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Final Design Electrical Detail - Sheet 8 of 8

750 N.Greenfield Pkwy, Garner, NC 27529



SR 2528 (Julian Rd) and

Martin Luther King Jr Ave Rowan County PLAN DATE: November 2021 REVIEWED BY: B. Phillips

PREPARED BY: Z. "Gavin" Teng | REVIEWED BY: REVISIONS INIT. DATE

FINAL UNLESS ALL SIGNATURES COMPLETED 032179 Haolong ting 12/3/2021

—686BAQDEAZPTURE. DATE

SIG. INVENTORY NO. 09-0640

DOCUMENT NOT CONSIDERED

PROJECT REFERENCE NO.

U-5738

Sig 11 9

VICE-VERSA).

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

OVERLAPS PAGE 2: Modifies overlap parent phases for heads 11 and 51 to run protected

turns only.

INPUTS PAGE 2:

"ALTERNATE PHASING":

Disables phase 6 call on loop 1A and reduces delay time for phase 1 call on loop 1A to 0 seconds.

Disables phase 2 call on loop 5A and reduces delay time for phase 5 call on loop 5A to 0 seconds.