Docusign Envelope ID: EFF8A1FE-DDBC-4645-B7E4-7BBB1FE0CB7F

PROJECT REFERENCE NO.	SHEET NO.
U-5777	Sig. 6.3

EMERGENCY VEHICLE PREEMPTION PROGRAMMING DETAIL

(program controller as shown below)

SELECT 7-PREEMPT DATA FROM MAIN MENU

```
- PREEMPT 3 -

PREEMPTS

1-PREEMPT 1    5-PREEMPT 5    9-PREEMPT 9
2-PREEMPT 2    6-PREEMPT 6    A-PREEMPT 10
[3-PREEMPT 3]  7-PREEMPT 7    B-PREEMPT 11
4-PREEMPT 4    8-PREEMPT 8    C-PREEMPT 12

   O-OVERRIDES        D-DEFAULT DATA

PREEMPT 3

[1-MISCELLANEOUS]     6-PEDEST. STATUS
 2-INTERVAL TIMES     7-OVERLAP STATUS
 3-VEHICLE STATUS

PREEMPT 3 MISC DATA                TEST:  0
DET:  250  DELAY:  0  MXCAL:120  DB/10: 0
NLOCK:  0  EXTND:  0  L OUT:  0  SRMOD: 0
LINK#:  0  DURAT:  0  GATE :  0  R2C  : 0
 PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
  EXIT    0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
  CALLS   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

 select F - return to Preempt 3 menu
 select 2 - Interval Times

PREEMPT 3 INTERVAL TIMES
 MIN GRN:  1  MIN WLK:  1  DWL GRN:   7
              EXT PED:  0
 --SELECT---  ---TRACK---  ---RETURN--
               GREEN :  0
 PED CLR: 24  PED CLR:  0  PED CLR:   0
 YEL/10 :  0  YEL/10 :  0  YEL/10 :   0
 RED/10 :  0  RED/10 :  0  RED/10 :   0

 select F - return to Preempt 3 menu
 select 3 - Vehicle Status

PREEMPT 3 VEHICLE STATUS
PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
 TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 DWELL   0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
 (0-RED,1-GRN,2-FLR,3-FLY,4-DARK,5-FLG)
 CYCLE   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    (0-NO..1-ACT..2-MIN REC..3-MX REC)

 select F - return to Preempt Data menu

 NOTE: Options 4 & 5 are not used.
 Be sure values are set at default=0.
```

```
- PREEMPT 4 -

PREEMPTS

1-PREEMPT 1    5-PREEMPT 5    9-PREEMPT 9
2-PREEMPT 2    6-PREEMPT 6    A-PREEMPT 10
3-PREEMPT 3    7-PREEMPT 7    B-PREEMPT 11
[4-PREEMPT 4]  8-PREEMPT 8    C-PREEMPT 12

   O-OVERRIDES        D-DEFAULT DATA

PREEMPT 4

[1-MISCELLANEOUS]     6-PEDEST. STATUS
 2-INTERVAL TIMES     7-OVERLAP STATUS
 3-VEHICLE STATUS

PREEMPT 4 MISC DATA                TEST:  0
DET:  251  DELAY:  0  MXCAL:120  DB/10: 0
NLOCK:  0  EXTND:  0  L OUT:  0  SRMOD: 0
LINK#:  0  DURAT:  0  GATE :  0  R2C  : 0
 PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
  EXIT    0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  CALLS   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

 select F - return to Preempt 4 menu
 select 2 - Interval Times

PREEMPT 4 INTERVAL TIMES
 MIN GRN:  1  MIN WLK:  1  DWL GRN:  10
              EXT PED:  0
 --SELECT---  ---TRACK---  ---RETURN--
               GREEN :  0
 PED CLR: 10  PED CLR:  0  PED CLR:   0
 YEL/10 :  0  YEL/10 :  0  YEL/10 :   0
 RED/10 :  0  RED/10 :  0  RED/10 :   0

 select F - return to Preempt 4 menu
 select 3 - Vehicle Status

PREEMPT 4 VEHICLE STATUS
PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
 TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 DWELL   0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 (0-RED,1-GRN,2-FLR,3-FLY,4-DARK,5-FLG)
 CYCLE   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    (0-NO..1-ACT..2-MIN REC..3-MX REC)

 select F - return to Preempt Data menu

 NOTE: Options 4 & 5 are not used.
 Be sure values are set at default=0.
```

```
- PREEMPT 5 -

PREEMPTS

1-PREEMPT 1    [5-PREEMPT 5]  9-PREEMPT 9
2-PREEMPT 2    6-PREEMPT 6    A-PREEMPT 10
3-PREEMPT 3    7-PREEMPT 7    B-PREEMPT 11
4-PREEMPT 4    8-PREEMPT 8    C-PREEMPT 12

   O-OVERRIDES        D-DEFAULT DATA

PREEMPT 5

[1-MISCELLANEOUS]     6-PEDEST. STATUS
 2-INTERVAL TIMES     7-OVERLAP STATUS
 3-VEHICLE STATUS

PREEMPT 5 MISC DATA                TEST:  0
DET:  252  DELAY:  0  MXCAL:120  DB/10: 0
NLOCK:  0  EXTND:  0  L OUT:  0  SRMOD: 0
LINK#:  0  DURAT:  0  GATE :  0  R2C  : 0
 PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
  EXIT    1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
  CALLS   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

 select F - return to Preempt 5 menu
 select 2 - Interval Times

PREEMPT 5 INTERVAL TIMES
 MIN GRN:  1  MIN WLK:  1  DWL GRN:  10
              EXT PED:  0
 --SELECT---  ---TRACK---  ---RETURN--
               GREEN :  0
 PED CLR: 12  PED CLR:  0  PED CLR:   0
 YEL/10 :  0  YEL/10 :  0  YEL/10 :   0
 RED/10 :  0  RED/10 :  0  RED/10 :   0

 select F - return to Preempt 5 menu
 select 3 - Vehicle Status

PREEMPT 5 VEHICLE STATUS
PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
 TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 DWELL   1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
 (0-RED,1-GRN,2-FLR,3-FLY,4-DARK,5-FLG)
 CYCLE   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    (0-NO..1-ACT..2-MIN REC..3-MX REC)

 NOTE: Options 4 & 5 are not used.
 Be sure values are set at default=0.

 end of programming
```

PROGRAM EXTEND TIME ON OPTICAL DETECTOR UNITS FOR 2.0 SEC.

REMOTE FLASH PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS 4 (UNIT DATA)

```
UNIT DATA
 1- STARTUP & MISC      6- SEQUENCES
[2- FLASH]              7- PORT 1/ITS DATA
 3- OVERLAP DATA        8- I/O MISC
 4- PEER-TO-PEER        9- PUTPUT MAPPING
 5- RING STRUCTURE      B-BANK SELECTION
                        C-COPY BANK
'+' DENOTES BANKABLE UNIT DATA          [1]

FLASH
   [1- REMOTE FLASH SETTINGS]
    2- REMOTE FLASH ENTRY/EXIT PHASES
    3- CABINET FLASH SETTINGS

REMOTE FLASH SETTINGS       TEST-A FLASH: 0

 LDSW:123456789 0123456789 0123456789 012
 FLSH:110010010 0000000000 0000000000 000
  ALT:010010000 0000000000 0000000000 000

 0-DARK  1-RED  2-YELLOW  3-STEADY YELLOW
```

SELECT 'F' RETURN TO FLASH MENU

```
FLASH
    1- REMOTE FLASH SETTINGS
   [2- REMOTE FLASH ENTRY/EXIT PHASES]
    3- CABINET FLASH SETTINGS

REMOTE FLASH ENTRY/EXIT PHASES

     PHASES: 12345678 90123456
      ENTRY: 01000100 00000000
       EXIT: 01000100 00000000
```

REMOTE FLASH PROGRAMMING COMPLETE

ALL RED FLASH STARTUP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS 4 (UNIT DATA)

```
UNIT DATA
[1- STARTUP & MISC]     6- SEQUENCES
 2- FLASH               7- PORT 1/ITS DATA
 3- OVERLAP DATA        8- I/O MISC
 4- PEER-TO-PEER        9- PUTPUT MAPPING
 5- RING STRUCTURE      B-BANK SELECTION
                        C-COPY BANK
'+' DENOTES BANKABLE UNIT DATA          [1]

 STARTUP & MISC
 STARTUP TIME.:  6 (SEC) STATE: 2 (0-FL
 RED REV/10...: 40 (TSEC)          1-RED
 AUTO PED CLR.:  0 (0-NO  1-YES)   2-RAF)
 STOP T RESET.:  0 (0-NO  1-YES)
 SEQUENCE.....:  0 (0-18)
 SPECIAL SEQ  :  0 (SEE HELP)
```

STARTUP PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 12-0945T5
DESIGNED: October 2023
SEALED: 09/06/2024
REVISED: N/A

Signal Upgrade-
Electrical Detail - Sheet 3 of 3
(Construction Phase 3)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for: NC Department of Transportation Mobility and Safety Division Signal Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

NC 127 SE
at
SR 2231 (2nd Ave SE)

Division 12 Catawba County Hickory

PLAN DATE:	January 2024	REVIEWED BY:	N.K. Vlanich
PREPARED BY:	E.E. Tiller	REVIEWED BY:	N.R. Simmons

REVISIONS	INIT.	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 031464 ENGINEER NATASHA R. SIMMONS

DocuSigned by: Natasha R. Simmons 9/6/2024
SIGNATURE DATE

SIG. INVENTORY NO. 12-0945T5

$$$$SYSTIME$$$$
$$$$$$$$$$$$$$$$$$$$$$$$$$$$