PEEK TRAFFIC 3000 SERIES CONTROLLER – EMERGENCY VEHICLE PREEMPTION PROGRAMMING

(program controller as shown below)

PROJECT REFERENCE NO.	SHEET NO.
B-3681	SIG.7

ENTRY

1. CONTROLLER
2. COORDINATION
3. TIME OF DAY
4. PREEMPTION
5. SPECIAL
6. UTILITIES

TO VIEW OR ENTER PREEMPTION RUN
ENTER 1-6: 3

TO ERASE ONE PREEMPTION RUN
ENTER 1-6: .

TO ERASE ALL PREEMPTION RUNS
ENTER 99: ..

PREEMPTION RUN 3 MENU

1. PER RUN DATA
2. INTERVAL DATA
3. FLASH PLAN FOR RUN 3

WHEN CHANGING RUN DATA, DISABLE RUN UNDER PER RUN DATA

PER RUN 3 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 3 ENABLE,RR,LOCK,PRIORITY
VALUE(YES/NO)

RUN ENABLE: Y *
RAILROAD: N
PE INPUT LOCK: Y
OVERRIDE FLASH: N
GO TO HIGHER PE: N
NEMA PRIORITY: Y
MAX INTERVALS: 3
VALUE(0-32)
USER PRIORITY: 1
VALUE(1-6)

PER RUN 3 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 3 DURATION, RESERVICE, PE DELAY

DURATION	PREEMPT DELAY	RESERVICE
0	0	0
(0-255 SECS)	(0-255 SECS)	(0-255 SECS)

DURATION TIMER USED AS GAP TIMER: N

continued at top right

* DENOTES RUN ENABLE MUST BE SET TO "N" BEFORE PREEMPT DATA CAN BE ENTERED.

cont'd. from bottom left

PER RUN 3 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 3 MINIMUM ENTRY TIMES
INHIBIT DOUBLE CLR O/L ENTERING PE: N

GREEN	YELLOW	RED	PED CLR	O/L YEL
1.0	4.5	2.5	0	0.0
(0----------25.5 SECS)			(0-255 SECS)	(0-255 SECS)

PER RUN 3 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 3 PER INTERVAL DATA VALUE(YES/NO)
PGDN FOR MORE

FUN/INTV	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
VALID	X X X . . . . .
DWELL	X . . . . .
FIXED	. X X . . . . .
TENTH	. X X . . . . .

SHIFT - RT->TO SEE-ENTER INTERVALS 17-32

RUN 3 PER INTERVAL DATA VALUE(YES/NO)

FUN/INTV	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
EXIT	X X X . . . . .
PC->YEL	. . . . .

SHIFT - RT->TO SEE-ENTER INTERVALS 17-32

continued at top right

cont'd. from bottom left

PER RUN 3 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 3 EXIT CONTROLS

EXIT MODE: 0 0 = GO TO EXIT PHASES
1 = GO TO NEXT DEMAND
2 = RESUME INTERRUPTED SEQ.
VALUE(YES/NO)

FUNC/PH	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
PHASES	. X . . . X . . . .
CALLS	. . . . .

1. PER RUN DATA
2. INTERVAL DATA
3. FLASH PLAN FOR RUN 3

WHEN CHANGING RUN DATA, DISABLE RUN UNDER PER RUN DATA

RUN 3 INTERVAL 1 VALID: X DWELL: X
TENTHS: . PC->YEL: . EXIT: X FIXED: .
TIME: 10 PH FLASH: . PED FLASH: .
VALUE(0 = R/D, 1 = Y/P, 2 = G/W)

FUNC/PH	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
COLOR	G . . . G . . . .
PED COL	. . . . .

PGDN FOR OVERLAPS

PGDN FOR PE OUTS

PGDN FOR NEXT INTERVAL

RUN 3 INTERVAL 2 VALID: X DWELL: .
TENTHS: X PC->YEL: . EXIT: X FIXED: X
TIME: 4.5 PH FLASH: . PED FLASH: .
VALUE(0 = R/D, 1 = Y/P, 2 = G/W)

FUNC/PH	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
COLOR	Y . . . Y . . . .
PED COL	. . . . .

PGDN FOR OVERLAPS

PGDN FOR PE OUTS

PGDN FOR NEXT INTERVAL

RUN 3 INTERVAL 3 VALID: X DWELL: .
TENTHS: X PC->YEL: . EXIT: X FIXED: X
TIME: 1.7 PH FLASH: . PED FLASH: .
VALUE(0 = R/D, 1 = Y/P, 2 = G/W)

FUNC/PH	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
COLOR	R . . . . R . . . .
PED COL	. . . . .

PGDN FOR OVERLAPS

PGDN FOR PE OUTS

PGDN FOR NEXT INTERVAL

continued at top right

NOTE :
THERE IS NO PROGRAMMING REQUIRED FOR 'OVERLAPS' OR 'PE OUTS' FOR ANY INTERVAL

cont'd. from bottom left

TO VIEW OR ENTER PREEMPTION RUN
ENTER 1-6: 4

TO ERASE ONE PREEMPTION RUN
ENTER 1-6: .

TO ERASE ALL PREEMPTION RUNS
ENTER 99: ..

PREEMPTION RUN 4 MENU

1. PER RUN DATA
2. INTERVAL DATA
3. FLASH PLAN FOR RUN 4

WHEN CHANGING RUN DATA, DISABLE RUN UNDER PER RUN DATA

PER RUN 4 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 4 ENABLE,RR,LOCK,PRIORITY
VALUE(YES/NO)

RUN ENABLE: Y *
RAILROAD: N
PE INPUT LOCK: Y
OVERRIDE FLASH: N
GO TO HIGHER PE: N
NEMA PRIORITY: Y
MAX INTERVALS: 3
VALUE(0-32)
USER PRIORITY: 1
VALUE(1-6)

PER RUN 4 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 4 DURATION, RESERVICE, PE DELAY

DURATION	PREEMPT DELAY	RESERVICE
0	0	0
(0-255 SECS)	(0-255 SECS)	(0-255 SECS)

DURATION TIMER USED AS GAP TIMER: N

continued at top right

* DENOTES RUN ENABLE MUST BE SET TO "N" BEFORE PREEMPT DATA CAN BE ENTERED.

cont'd. from bottom left

PER RUN 4 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 4 MINIMUM ENTRY TIMES
INHIBIT DOUBLE CLR O/L ENTERING PE: N

GREEN	YELLOW	RED	PED CLR	O/L YEL
1.0	4.5	2.5	0	0.0
(0----------25.5 SECS)			(0-255 SECS)	(0-255 SECS)

PER RUN 4 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 4 PER INTERVAL DATA VALUE(YES/NO)
PGDN FOR MORE

FUN/INTV	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
VALID	X X X . . . . .
DWELL	X . . . . .
FIXED	. X X . . . . .
TENTH	. X X . . . . .

SHIFT - RT->TO SEE-ENTER INTERVALS 17-32

RUN 4 PER INTERVAL DATA VALUE(YES/NO)

FUN/INTV	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
EXIT	X X X . . . . .
PC->YEL	. . . . .

SHIFT - RT->TO SEE-ENTER INTERVALS 17-32

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cont'd. from bottom left

PER RUN 4 MENU

1. RUN ENABLE,RR, MAX INTVS,LOCK, PRIORITY
2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION
3. MIN ENTRY TIMES, INH DOUBLE CLR O/L
4. VALID,FIXED, TENTHS,PC->YEL, EXIT,DWELL INTVS
5. EXIT CONTROLS

RUN 4 EXIT CONTROLS

EXIT MODE: 0 0 = GO TO EXIT PHASES
1 = GO TO NEXT DEMAND
2 = RESUME INTERRUPTED SEQ.
VALUE(YES/NO)

FUNC/PH	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
PHASES	. X . . . X . . . .
CALLS	. . . . .

1. PER RUN DATA
2. INTERVAL DATA
3. FLASH PLAN FOR RUN 4

WHEN CHANGING RUN DATA, DISABLE RUN UNDER PER RUN DATA

RUN 4 INTERVAL 1 VALID: X DWELL: X
TENTHS: . PC->YEL: . EXIT: X FIXED: .
TIME: 10 PH FLASH: . PED FLASH: .
VALUE(0 = R/D, 1 = Y/P, 2 = G/W)

FUNC/PH	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
COLOR	. G . . G . . . .
PED COL	. . . . .

PGDN FOR OVERLAPS

PGDN FOR PE OUTS

PGDN FOR NEXT INTERVAL

RUN 4 INTERVAL 2 VALID: X DWELL: .
TENTHS: X PC->YEL: . EXIT: X FIXED: X
TIME: 4.5 PH FLASH: . PED FLASH: .
VALUE(0 = R/D, 1 = Y/P, 2 = G/W)

FUNC/PH	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
COLOR	. Y . . Y . . . .
PED COL	. . . . .

PGDN FOR OVERLAPS

PGDN FOR PE OUTS

PGDN FOR NEXT INTERVAL

RUN 4 INTERVAL 3 VALID: X DWELL: .
TENTHS: X PC->YEL: . EXIT: X FIXED: X
TIME: 1.7 PH FLASH: . PED FLASH: .
VALUE(0 = R/D, 1 = Y/P, 2 = G/W)

FUNC/PH	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
COLOR	. R . . R . . . .
PED COL	. . . . .

PGDN FOR OVERLAPS

PGDN FOR PE OUTS

PGDN FOR NEXT INTERVAL

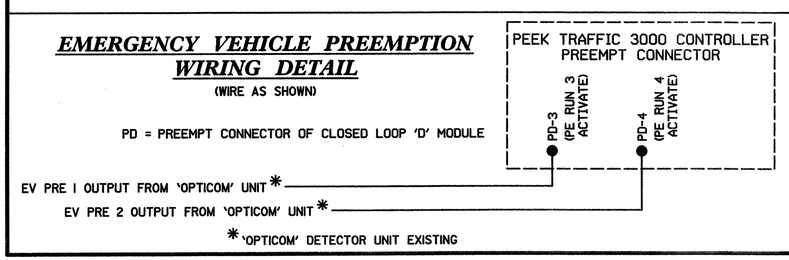
end of programming

NOTE :
THERE IS NO PROGRAMMING REQUIRED FOR 'OVERLAPS' OR 'PE OUTS' FOR ANY INTERVAL

EMERGENCY VEHICLE PREEMPTION WIRING DETAIL

(WIRE AS SHOWN)

PD = PREEMPT CONNECTOR OF CLOSED LOOP 'D' MODULE



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-0107
DESIGNED: 02-05
SEALED: 04-12-05
REVISED:

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609

Signal Upgrade - Final (Sheet 2 of 2)

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Traffic Engineering and Safety Systems Branch
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signals Management Section
122 N. McDowell St., Raleigh, NC 27603

US 301 Business (Centura Hwy)
at
SR 1542 (Airport Rd)/SR 1555

Division 04 | Nash County | Rocky Mount

PLAN DATE: February 2005 | REVIEWED BY: S.T. Franklin
PREPARED BY: T.R. Terrell | REVIEWED BY: H.L. Winstead

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 07983 ENGINEER HARVEY L. WINSTEAD, JR.

H.L. Winstead 4/26/05
SIGNATURE DATE

SIG. INVENTORY NO. 04-0107