OPERATIONS SHEET

Location: West Coast Highway / Pandan Crescent Int. No: 16534

Prepared by: Tiffany Aw / Lang Jie Date: 05 / 05 / 2023 Signal ID: 2557

Checked by: Clayton Lim

Approved by: Simon Ho

GOMS 20230421-0246

1. Add D Phase
2. Add Loop 8
3. Re-arrange Loops (9 to 10)

**REMARKS**

West Coast Highway

West Coast Highway

Wef. 1st April 2005

**PB2**

2

5PED1

4

6PED2

3

1

1

2

3

**PB1**

**PB1**

**PB2**

Pandan Cres

10

9

8

6

7

5

4

Pg. 1

Location: Int. No: 16534

✓

If phase change switch is equal or more than TSM15, controller is to send out MSS15 flag

If phase is not introduced, SG will flash for 3 seconds (TSM 14) in All-Red.

If phase is not introduced, SG will flash for 3 seconds (TSM 14) in All-Red.

✓

B, C, D phase(s) is/are demand dependent.

✓

A phase(s) is/are placed on permanent demand in all Modes.

✓

PED 1 is introduced when Push Button PB1 is activated.

✓

PED 2 is introduced when Push Button PB2 is activated.

PED is introduced when Push Button is activated.

PED is introduced when Push Button is activated.

During phase, disable detector loop(s) call for phase.

Detector loop(s)  is/are presence-timed lock call for phase.

During phase, after the lock call timer has expired (more than TSM ), detector loop(s)  will cancel demand for phase.

During phase, after the lock call timer has expired (more than TSM ), detector loop(s)  will cancel demand for phase.

Left Turn Green Arrow SG

1. It is introduced in phase.
2. SG  terminates with SG/Phase with green arrow flashing for 3 seconds.

Left Turn Green Arrow SG

1. It is introduced in phase.
2. SG  terminates with SG/Phase with green arrow flashing for 3 seconds.

**PHASING DIAGRAM**

Location: Int. No: 16534

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***A*** |  |  | **Phase** | | **Prohibited Phase Changes to** | | **Reversion on maximum** | **Maximum V. I. G. on Maximun** |
|
| 1    5PED1  (PB1)  2 | |
|
| A | |  | |  |  |
| B | |  | |  |  |
| C | |  | |  |  |
| D | |  | |  |  |
| E | |  | |  |  |
| F | |  | |  |  |
| G | |  | |  |  |
|  | |  | |  | | | | |
| ***B*** |  |  | | 1. If PED1 is introduced,   A Phase Min Green = TSM21 = 30 Sec | | |
|
| 3  1 | |  | | | | |
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|  | |  | | | | |
| ***C*** | 6PED2  (PB2) |  | | 1. SG4 Late Start = 0.3 Sec 2. If PED2 is introduced:   1) SG4 Late Start = TSM1 = 3 Sec  2) C Phase Min Green = TSM22 = 32 Sec | | |
|
| 4 | |  | | | | |
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|  | |  | | | | |
| ***D*** |  |  | |  | | |
|
| 3  1 | |  | | | | |
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# V. A. Sequence:

Pg. 3

# **DETECTOR FUNCTION**

Location: Int. No: 16534

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Detector No** | **CALL PHASE** | **LOCKING** | | **NON LOCKING** | **SET VIG ON PHASE** | **EXTEND PHASE** | | **SPECIAL** | | **DETECTOR ALARMS** | | | **PLAN REFERENCE** |
| **FAULT SIMULATION** | | |
| **CALL & EXTEND** | **CALL ONLY** | **DISABLE** |
| 1 | A | | **✓** |  |  | A |  | | | ✓ |  |  |  |
| 2 | A | | **✓** |  |  | A |  | | | ✓ |  |  |  |
| 3 | A | | **✓** |  |  | A |  | | | ✓ |  |  |  |
| 4 | A | | **✓** |  |  | AB |  | | | ✓ |  |  |  |
| 5 | A | | **✓** |  |  | AB |  | | | ✓ |  |  |  |
| 6 | A | | **✓** |  |  | AB |  | | | ✓ |  |  |  |
| 7 | B, D | | B | D |  | B, D |  | | | ✓ |  |  |  |
| 8 | B, D | | B | D |  | B, D |  | | | ✓ |  |  |  |
| 9 | C | | **✓** |  |  | C |  | | | ✓ |  |  |  |
| 10 | C | | **✓** |  |  | C |  | | | ✓ |  |  |  |
| 11 |  | |  |  |  |  |  | | |  |  |  |  |
| 12 |  | |  |  |  |  |  | | |  |  |  |  |
| 13 |  | |  |  |  |  |  | | |  |  |  |  |
| 14 |  | |  |  |  |  |  | | |  |  |  |  |
| 15 |  | |  |  |  |  | PHASE CHANGE SWITCH | |  |  |  | **✓** |  |
| 16 |  | |  |  |  |  | POLICE CONTROL SWITCH | |  |  |  | **✓** |  |
| PB1 | *A* | | **✓** |  |  |  | PED1 | | |  | **✓** |  |  |
| PB2 | *C* | | **✓** |  |  |  | PED2 | | |  | **✓** |  |  |
| PB3 |  | |  |  |  |  |  | | |  |  |  |  |
| PB4 |  | |  |  |  |  |  | | |  |  |  |  |
| PB5 |  | |  |  |  |  |  | | |  |  |  |  |
| PB6 |  | |  |  |  |  |  | | |  |  |  |  |

# **APPROACH TIMING**

Pg. 4

Pg. 5

Location: Int. No: 16534

|  |  |  |  |
| --- | --- | --- | --- |
| **APPROACH** | **EXTENDING DETECTORS** | **SIGNAL GROUP** | **COMMENTS** |
| A1 | 1 | 2 |  |
| A2 | 2 | 2 |  |
| A3 | 3 | 2 |  |
| A4 | 4, 5, 6 | 2 |  |
| B1 | 4, 5, 6 | 3 |  |
| B2 | 7 | 3 |  |
| B3 | 8 | 3 |  |
| B4 |  |  |  |
| C1 | 9 | 4 |  |
| C2 | 10 | 4 |  |
| C3 |  |  |  |
| C4 |  |  |  |
| D1 | 7 | 3 |  |
| D2 | 8 | 3 |  |
| D3 |  |  |  |
| D4 |  |  |  |
| E1 |  |  |  |
| E2 |  |  |  |
| E3 |  |  |  |
| E4 |  |  |  |
| F1 |  |  |  |
| F2 |  |  |  |
| F3 |  |  |  |
| F4 |  |  |  |
| G1 |  |  |  |
| G2 |  |  |  |
| G3 |  |  |  |
| G4 |  |  |  |

# **NOTE:** MAXIMUM NUMBER OF APPROACHES IS 16

# **INTERGREEN, PEDESTRIAN TIMES AND SPECIAL FUNCTIONS**

Location: Int. No: 16534

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PHASE** | **CLEARANCE MOVEMENT** | **CLEARANCE DISTANCE** | **INTERGREEN** | | |  | **PED NO.** | **PHASE** | **WALK** | | **CLEARANCE TIME** | |
| **AMBER** | **RED** | **TOTAL** |  | **DISTANCE (m)** | **GREEN TIME** | **1** | **2** |
| A |  |  | 3 | 2 | 5 |  | 1 | A | 21 | 6 | 21 |  |
| B |  |  | 3 | 3 | 6 |  | 2 | C | 26 | 6 | 26 |  |
| C |  |  | 3 | 3 | 6 |  | 3 |  |  |  |  |  |
| D |  |  | 3 | 5 | 8 |  | 4 |  |  |  |  |  |
| E |  |  |  |  |  |  | 5 |  |  |  |  |  |
| F |  |  |  |  |  |  | 6 |  |  |  |  |  |
| G |  |  |  |  |  |  | 7 |  |  |  |  |  |
|  |  |  |  |  |  |  | Pedestrian Walking Speed: ***1.0*** m/s | | | | | |

# **SPECIAL FACILITIES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SIGNAL GROUP** | **HOUR** | **MINUTE** | **SECOND** | **FUNCTION** | | |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  | | |
|  |  |  |  |  | | |

# **PRE-EMPTION**

|  |  |  |  |
| --- | --- | --- | --- |
| **SIGNAL GROUP** | **PHASE** | **FUNCTION** | **REMARKS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
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|  |  |  |  |

# **CONTROLLER TIMESETTING**

Pg. 6

Location: Int. No: 16534

# **SPECIAL MOVEMENT (S. M.) TIME**

# (‘B’ ENTER)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **S. M.** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| **INTERVAL** |
| **MINIMUM GREEN** | 1 |  |  |  |  |  |  |  |  |
| **AMBER** | 2 |  |  |  |  |  |  |  |  |
| **RED** | 3 |  |  |  |  |  |  |  |  |
| **GAP** | 4 |  |  |  |  |  |  |  |  |
| **HEADWAY** | 5 |  |  |  |  |  |  |  |  |
| **WASTE** | 6 |  |  |  |  |  |  |  |  |
| **MAXIMUM** | 7 |  |  |  |  |  |  |  |  |
| **SIGNAL GROUP** | |  |  |  |  |  |  |  |  |
| **DETECTORS** | |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PRESENCE (RANGE 0 –5)**(‘D’ ENTER) | | | | |  | **ALTERNATE TIME SETTING (RANGE 0-200)**(‘B’ ENTER) | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **DET. NO** | **PRESENCE TIME** |  | **DET. NO** | **PRESENCE TIME** |  | **ALT. NO** | **TIME** |  | **ALT. NO** | **TIME** |
| 1 | Sec |  | 13 | Sec |  | 1SG4 LS | 3 Sec |  | 17 |  |
| 2 | Sec |  | 14 | Sec |  | 2 |  |  | 18 |  |
| 3 | Sec |  | 15 | Sec |  | 3 |  |  | 19 |  |
| 4 | Sec |  | 16 | Sec |  | 4 |  |  | 20 | \*5 Sec |
| 5 | Sec |  | 17 | Sec |  | 5 |  |  | 21A Min G | 30 Sec |
| 6 | Sec |  | 18 | Sec |  | 6 |  |  | 22C Min G | 32 Sec |
| 7 | Sec |  | 19 | Sec |  | 7 |  |  | 23 |  |
| 8 | Sec |  | 20 | Sec |  | 8 |  |  | 24 |  |
| 9 | Sec |  | 21 | Sec |  | 9 |  |  | 25 |  |
| 10 | Sec |  | 22 | Sec |  | 10 |  |  | 26 |  |
| 11 | Sec |  | 23 | Sec |  | 11 |  |  | 27 |  |
| 12 | Sec |  | 24 | Sec |  | 12 |  |  | 28 |  |
|  |  |  |  |  |  | 13 |  |  | 29 |  |
|  |  |  |  |  |  | 14 |  |  | 30 |  |
|  |  |  |  |  |  | 15 | 50 Sec |  | 31 |  |
|  |  |  |  |  |  | 16 |  |  | 32 |  |

# **\*Note:** During start-up of controller, there will be a 5 seconds All Red (TSM20)

# **CONTROLLER TIMESETTING**

Pg. 7

Location: Int. No: 16534

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PHASE** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** |  |
|  | **INTERVAL** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **Range** |
| **RED/YELLOW** | 1 |  |  |  |  |  |  |  |  | 0 – 5 |
| **LATE START** | 2 |  |  | 0.3 |  |  |  |  |  | 0 – 20 |
| **MINIMUM GREEN** | 3 | 20 | 7 | 7 | 7 |  |  |  |  | 5 – 20 |
| **INCREMENT** | 4 |  |  |  |  |  |  |  |  | 0 – 5 |
| **MAX. V. I. G.** | 5 |  |  |  |  |  |  |  |  | 0 – 40 |
| **MAX. EXT. GREEN** | 6 | 40 | 25 | 35 | 15 |  |  |  |  | 0 – 150 |
| **EARLY CUT-OFF** | 7 |  |  |  |  |  |  |  |  | 0 – 20 |
| **AMBER** | 8 | 3 | 3 | 3 | 3 |  |  |  |  | 3 – 7 |
| **ALL RED** | 9 | 6 | 6 | 6 | 6 |  |  |  |  | 0 – 15 |
| **SPECIAL ALL RED** | 10 | 2 | 3 | 3 | 5 |  |  |  |  | 0 – 15 |
| **GAP 1** | 11 | 3 | 3 | 3 | 3 |  |  |  |  | 0 –10 |
| **GAP 2** | 12 | 3 | 3 | 3 | 3 |  |  |  |  | 0 –10 |
| **GAP 3** | 13 | 3 | 3 |  |  |  |  |  |  | 0 –10 |
| **GAP 4** | 14 | 0 |  |  |  |  |  |  |  | 0 –10 |
| **HEADWAY 1** | 15 | 1.2 | 0.4 | 1.2 | 1.2 |  |  |  |  | 0 – 5 |
| **HEADWAY 2** | 16 | 1.2 | 1.2 | 1.2 | 1.2 |  |  |  |  | 0 – 5 |
| **HEADWAY 3** | 17 | 1.2 | 1.2 |  |  |  |  |  |  | 0 – 5 |
| **HEADWAY 4** | 18 | 0.4 |  |  |  |  |  |  |  | 0 – 5 |
| **WASTE 1** | 19 | 7 | 7 | 7 | 7 |  |  |  |  | 0 – 50 |
| **WASTE 2** | 20 | 7 | 7 | 7 | 7 |  |  |  |  | 0 – 50 |
| **WASTE 3** | 21 | 7 | 7 |  |  |  |  |  |  | 0 – 50 |
| **WASTE 4** | 22 | 7 |  |  |  |  |  |  |  | 0 – 50 |
| **MAXIMUM 1** | 23 |  |  |  |  |  |  |  |  | 0 – 150 |
| **MAXIMUM 2** | 24 |  |  |  |  |  |  |  |  | 0 – 150 |
| **MAXIMUM 3** | 25 |  |  |  |  |  |  |  |  | 0 – 150 |
| **MAXIMUM 4** | 26 |  |  |  |  |  |  |  |  | 0 – 150 |

# Maximum V. A. Cycle Time:

✓

✓

# Use Special All Red if going from A phase to B phase

# Use Special All Red if going from B phase to C phase

✓

✓

# Use Special All Red if going from C phase to A, D phase

# Use Special All Red if going from D phase to A phase

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PEDESTRIAN NO.** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |  |
|  | **INTERVAL** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** | **Range** |
| **DELAY** | 1 |  |  |  |  |  |  |  |  | 0 – 20 |
| **WALK** | 2 | 6 | 6 |  |  |  |  |  |  | 0 – 40 |
| **CLEARANCE 1** | 3 | 21 | 26 |  |  |  |  |  |  | 0 – 40 |
| **CLEARANCE 2** | 4 |  |  |  |  |  |  |  |  | 0 – 10 |
| PAC | | 7 | 7 |  |  |  |  |  |  |  |

# **CO-ORDINATION DATA**

Pg. 8

Location: Int. No: 16534

# **MASTERLINK & FLEXILINK SPECIAL FLAGS**

|  |  |
| --- | --- |
| **SIGNAL** | **FUNCTION** |
| Y- FLEXI | CONTINUOUS |
| Y- MASTER | AUTO CALL PUSH BUTTON PED ***1, 2*** |
| Y+ FLEXI | AUTO CALL PUSH BUTTON PED ***1, 2*** |
| Z- FLEXI | AUTO CALL PED ***1*** |
| Z- MASTER | AUTO CALL PED ***1*** |
| Z+ FLEXI |  |
| Z+ MASTER |  |
| R- FLEXI | ***B***  PHASE RELEASE PULSE |
| R+ FLEXI | ***C***  PHASE RELEASE PULSE |
| Q- FLEXI | ***D***  PHASE RELEASE PULSE |
| Q+ FLEXI | ***A***  PHASE RELEASE PULSE |
| Z1 MASTER |  |
| Z MASTER |  |
| Z MASTER |  |
| Z MASTER |  |

# **LOOK AHEADS AND RELEASES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Phase Sequence 1** | | |  | **Phase Sequence 2** | | |
| **PHASE** | **LOOK AHEAD** | **RELEASE** |  | **PHASE** | **LOOK AHEAD** | **RELEASE** |
| A | NO | *Q+* |  | A |  |  |
| B | *NO* | *R-* |  | B |  |  |
| C | *YES to A* | *R+* |  | C |  |  |
| D | *YES to A* | *Q-* |  | D |  |  |
| E |  |  |  | E |  |  |
| F |  |  |  | F |  |  |
| G |  |  |  | G |  |  |

# The following phases can be inhibited in Flexilink by omitting the call pulses in the plan data

|  |  |
| --- | --- |
| **NO** | **PHASE SEQUENCE** |
| 1 (No ) | ***ABCD*** |
| 2 ( ) |  |

# **GLIDE INTERSECTION DATA**

Pg. 9

Location: Int. No: 16534

# **Note:** The data shown on this page should be entered when the intersection is first placed on line. This data is not necessarily used for Master Link operation.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | SLOT *138* | = *4, 4, 2* | | | | | | E.g. x, y, z. x = No of Phases y = No of Split Plans z = No of PEDs | | | | | | | | | | | | | | | | | | |
|  | | INT = *16534* | | |  | | | | | | | | | | | | | | | | | | | | | | | |
|  | | VC = | | |  | | Date: | | | | | | | | | | Date: | | | | | | | | | |  | |
|  | | CS = | | |  | | PP1 = 0*, 0 ^A* | | | | | | | | | | PP1 = | | | | | | | | | |  | |
|  | | COM = | | |  | | PP2 = 0*, 0 ^A* | | | | | | | | | | PP2 = | | | | | | | | | |  | |
|  | | PK = | | |  | | PP3 = 0*, 0 ^A* | | | | | | | | | | PP3 = | | | | | | | | | |  | |
|  | | S# = | | |  | | PP4 = 0*, 0 ^A* | | | | | | | | | | PP4 = | | | | | | | | | |  | |
|  | | LM = MF | | | **Note:** Always LM = F initially | | | | | | | | | | | | | | | | | | | | | | | |
|  | | RMN = | | |  | | | | | | | | | | | | | | | | | | | | | | | |
|  | | DCL = | | |  | | **Variation Parameter (VP)** | | | | | | | | | | | | | | | | | | | | | |
|  | | VOLS = *1 – 10* | | |  | | VP1 = | | | | | VP8 = | | | | VP15 = | | | | VP22 = | | | | VP29 = | | |  | |
|  | | VP# = | | |  | | VP2 = | | | | | VP9 = | | | | VP16 = | | | | VP23 = | | | | VP30 = | | |  | |
|  | | AT = 5 | | |  | | VP3 = | | | | | VP10 = | | | | VP17 = | | | | VP24 = | | | | VP31 = | | |  | |
|  | | BT = *6* | | |  | | VP4 = | | | | | VP11 = | | | | VP18 = | | | | VP25 = | | | | VP32 = | | |  | |
|  | | CT = *6* | | |  | | VP5 = | | | | | VP12 = | | | | VP19 = | | | | VP26 = | | | | VP33 = | | |  | |
|  | | DT = *8* | | |  | | VP6 = | | | | | VP13 = | | | | VP20 = | | | | VP27 = | | | | VP34 = | | |  | |
|  | | ET = | | |  | | VP7 = | | | | | VP14 = | | | | VP21 = | | | | VP28 = | | | | VP35 = | | |  | |
|  | | FT = | | |  | | | | | | | | | | | | | | | | | | | | | | | |
|  | | GT = | | |  | | |  | |  |  | | | | | | |  |  | | |  | | | | | | |
|  | | W1 = 6 | | |  | | |  | |  | W4 = | | | | | | |  |  | | |  | | | | | | |
|  | | W1T = 26 | | | P- | | |  | |  | W4T = | | | | | | | P- | P+ | | |  | | | | | | |
|  | | W2 = 6 | | |  | | |  | |  | W5 = | | | | | | |  |  | | |  | | | | | | |
|  | | W2T = 32 | | | P- | | | P+ | |  | W5T = | | | | | | | P- | P+ | | |  | | | | | | |
|  | | W3 = | | |  | | |  | |  | W6 = | | | | | | |  |  | | |  | | | | | | |
|  | | W3T = | | | P- | | | P+ | |  | W6T = | | | | | | | P- | P+ | | |  | | | | | | |
| **SPLIT PLANS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | **1** | | **2** | | | | | **3** | | **4** |  |  | | | | | | **5** | | **6** | | **7** | **8** | | |
|  | **SF** | | |  | |  | | | | |  | |  |  | **SF** | | | | | |  | |  | |  |  | | |
|  | **FEATURES** | | |  | **FEATURES** | | | | | |
| A | 0 PD FG B | | | < 0 > | | < 0 > | | | | | < 0 > | | < 0 > |  |  | | | | | |  | |  | |  |  | | |
| B | C | | | 22 | | 22 | | | | | 18 | | 22 |  |  | | | | | |  | |  | |  |  | | |
| C | TG D | | | 26 | | 30 | | | | | 34 | | 30 |  |  | | | | | |  | |  | |  |  | | |
| D | A | | | 12 | | 12 | | | | | 12 | | 12 |  |  | | | | | |  | |  | |  |  | | |
| E |  | | |  | |  | | | | |  | |  |  |  | | | | | |  | |  | |  |  | | |
| F |  | | |  | |  | | | | |  | |  |  |  | | | | | |  | |  | |  |  | | |
| G |  | | |  | |  | | | | |  | |  |  |  | | | | | |  | |  | |  |  | | |

# **PLAN DATA**

Pg. 10

Location: Int. No: 16534

# **PLAN**

# (‘E’ ENTER)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| 0 | **CL** | 144 | 130 |  | 144 | 104 | 114 | 130 |  |  |  |
| 1 | **A** | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |  |
| 2 | **B** | 51 | 49 |  | 51 | 45 | 48 | 49 |  |  |  |
| 3 | **C** | 79 | 69 |  | 79 | 67 | 72 | 69 |  |  |  |
| 4 | **D** | 122 | 110 |  | 122 | 103 | 113 | 110 |  |  |  |
| 5 | **E** |  |  |  |  |  |  |  |  |  |  |
| 6 | **F** |  |  |  |  |  |  |  |  |  |  |
| 7 | **G** |  |  |  |  |  |  |  |  |  |  |
| 8 | **R-** | C | C |  | C | C | C | C |  |  |  |
| 9 | **R+** | C | C |  | C | C | C | C |  |  |  |
| 10 | **Y-** | C | C |  | C | C | C | C |  |  |  |
| 11 | **Y+** |  |  |  |  |  |  |  |  |  |  |
| 12 | **Z-** |  |  |  |  |  |  |  |  |  |  |
| 13 | **Z+** |  |  |  |  |  |  |  |  |  |  |
| 14 | **Q-** | C | C |  | C | C | C | C |  |  |  |
| 15 | **Q+** | 41 | 40 |  | 41 | 38 | 40 | 40 |  |  |  |
| 16 | **XSF (9-16)\*** |  |  |  |  |  |  |  |  |  |  |
| 17 | **XSF (1-8)\*** |  |  |  |  |  |  |  |  |  |  |

# \* A digit hexadecimal number which signifies which XSF bits are used; e.g. AO signifies bits 14 & 16 are set.

# **NOTE:** C = Continuous (255) N = Not Used (254)

# **PLAN SCHEDULE**

# (‘F’ ENTER)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CODE** | **HOUR** | **MINUTE** | **PLAN** |  | **CODE** | **HOUR** | **MINUTE** | **PLAN** |
| 8 | 0 | 0 | 5 |  | 7 | 12 | 0 | 6 |
| 8 | *6* | *30* | 1 |  | 7 | 15 | 0 | 2 |
| 8 | *9* | 0 | 7 |  | 7 | *21* | 0 | 6 |
| 8 | *12* | 0 | 2 |  | 7 | 23 | 0 | 5 |
| 8 | *17* | 0 | 4 |  | 1 | 0 | 0 | 5 |
| 8 | *21* | 0 | 6 |  | 1 | 7 | 0 | 7 |
| 8 | 23 | 0 | 5 |  | 1 | 9 | 0 | 7 |
| 7 | 0 | 0 | 5 |  | 1 | 14 | 0 | 2 |
| 7 | *7* | 0 | 7 |  | 1 | *21* | 0 | 6 |
| 7 | 9 | 0 | 7 |  | 1 | 23 | 0 | 5 |

**Pedestrian and Vehicle Signal Groups Interlock Table**

Pg. 11

Location: Int. No: 16534

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Phase A** | **Phase B** | **Phase C** | **Phase D** | **Phase E** | **Phase F** | **Phase G** |
| **SG 1** | SGAR | SGAR | RED | SGAR |  |  |  |
| **SG 2** | GAR | RED | RED | RED |  |  |  |
| **SG 3** | RED | SGAR | RED | SGAR |  |  |  |
| **SG 4** | RED | RED | SGAR | RED |  |  |  |
| **SG 5** | WALK | DON’T | DON’T | DON’T |  |  |  |
| **SG 6** | DON’T | DON’T | WALK | WALK |  |  |  |
| **SG 7** |  |  |  |  |  |  |  |
| **SG 8** |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SG 9** |  |  |  |  |  |  |  |
| **SG 10** |  |  |  |  |  |  |  |
| **SG 11** |  |  |  |  |  |  |  |
| **SG 12** |  |  |  |  |  |  |  |
| **SG 13** |  |  |  |  |  |  |  |
| **SG 14** |  |  |  |  |  |  |  |
| **SG 15** |  |  |  |  |  |  |  |
| **SG 16** |  |  |  |  |  |  |  |

Legend:

GAR Green, Amber, Red

GEAR Green, Amber, Red (With ECO)

RED Red

SGRN Special Green

SOFF Special Off

WALK PED Walk, Clearance 1 and Clearance 2

SWALK Special PED Walk, Clearance 1 and Clearance 2

DON’T PED Red

Appendix A

Pg. 12

**Signal Groups Conflict Matrix**

Location: Int. No: 16534

(‘C16’ ENTER)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SG | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** |
| **1** |  |  |  | **X** |  | **X** |  |  |  |  |  |  |  |  |  |  |
| **2** |  |  | **X** | **X** |  | **X** |  |  |  |  |  |  |  |  |  |  |
| **3** |  | **X** |  | **X** | **X** | **X** |  |  |  |  |  |  |  |  |  |  |
| **4** | **X** | **X** | **X** |  | **X** |  |  |  |  |  |  |  |  |  |  |  |
| **5** |  |  | **X** | **X** |  |  |  |  |  |  |  |  |  |  |  |  |
| **6** | **X** | **X** | **X** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **7** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **8** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **9** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **10** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **11** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **12** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **13** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **14** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **15** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **16** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Pg. 13