# Appendix J:
# Signal Timing Plans

# INTERSECTION: Lytton St @ Rosecrans St

223 Program

Group Assignment:
Field Master Assignment:

N/S Street Name: Rosecrans St
E/W Street Name: Lytton St

Last Database Change:
System Ref. Number:

N

| Row | Column # ---> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| | | Rosecrans St | | | Lytton St | | Rosecrans St | | Lytton ST |
| | Phase # ---> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0 | Ped Walk | | 7 | | 7 | | 7 | | 7 |
| 1 | Ped FDW | | 19 | | 27 | | 11 | | 27 |
| 2 | Min Green | 4 | 10 | 4 | 7 | 4 | 10 | 4 | 7 |
| 3 | Type 3 Limit | | | | | | | | |
| 4 | Add/Veh | | | | | | | | |
| 5 | Veh Extn | 2.0 | 4.4 | 2.0 | 2.0 | 2.0 | 4.4 | 2.0 | 3.8 |
| 6 | Max Gap | 2.0 | 4.4 | 2.0 | 2.0 | 2.0 | 4.4 | 2.0 | 3.8 |
| 7 | Min Gap | 2.0 | 0.2 | 2.0 | 2.0 | 2.0 | 0.2 | 2.0 | 0.2 |
| 8 | Max Limit | 30 | 60 | 30 | 40 | 30 | 60 | 30 | 40 |
| 9 | Max Limit 2 | | | | | | | | |
| A | Bus Adv | | | | | | | | |
| B | Call to Phs | | | | | | | | |
| C | Reduce By | | 0.1 | | | | 0.1 | | 0.1 |
| D | Every | | 0.7 | | | | 0.7 | | 0.8 |
| E | Yellow | 3.4 | 4.3 | 3.4 | 4.2 | 3.4 | 4.3 | 3.4 | 3.9 |
| F | Red Clear | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| | Grade | | | | | | | | |

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| | E |
|---|---|
| RR-1 Delay | |
| RR-1 Clear | |
| EV-A Delay | 0 |
| EV-A Clear | 0 |
| EV-B Delay | 0 |
| EV-B Clear | 0 |
| EV-C Delay | 0 |
| EV-C Clear | 0 |
| EV-D Delay | 0 |
| EV-D Clear | 0 |
| RR-2 Delay | |
| RR-2 Clear | |
| View EV Delay | --- |
| View EV Clear | --- |
| View RR Delay | --- |
| View RR Clear | --- |

Preempt Timing
F + E + Row

| Row | | F |
|---|---|---|
| 0 | Permit | 12345678 |
| 1 | Red Lock | |
| 2 | Yellow Lock | |
| 3 | Min Recall | |
| 4 | Ped Recall | |
| 5 | Peds (View) | _2_4_6_8 |
| 6 | Rest In Walk | |
| 7 | Red Rest | |
| 8 | Dbl Entry | |
| 9 | Max Recall | |
| A | Soft Recall | _2___6__ |
| B | Max 2 | |
| C | Cond Serv | |
| D | Ped Lock | 12345678 |
| E | Yellow Start | _2___6__ |
| F | 1st Phases | __3___7_ |

Phase Functions <F Page>
F + F + Row

JD 12/9

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 0.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 10 | C + 0 + 0 |
| Zone Number | 10 | C + 0 + 1 |
| Area Number | 1 | C + 0 + 2 |
| Area Address | 87 | C + 0 + 3 |
| QuicNet Channel | DIGI 72: | (QuicNet) |

Communication Addresses

| C + F + O | F | Row |
|---|---|---|
| Free Lag | _2_4_6_8 | 0 |

Lag Phases <C Page>

Overlap Timing

| | Row | 9 Green Clear | C Yellow Change | D Red Clear | 0 Load-Switch # |
|---|---|---|---|---|---|
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page> F + COLOR +

<D Page> D + 0 + OVERLAP

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By: rej
Approved By:
Drawing Number: 32008-8-D
Timing Implemented On: 10/14/2004

## INTERSECTION: Lytton St @ Rosecrans St

223 Program

| Row | 1 Delay | 3 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | 1.8 |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 1I1 | 14 |
| | 2I2U | 1 |
| | 2I2L | 5 |
| | 2I3U | 21 |
| | 2I3L | 25 |
| | 2I4 | 9 |
| | 3I5 | 16 |
| | 4I6U | 3 |
| | 4I6L | 7 |
| | 4I7U | 23 |
| | 4I7L | 27 |
| | 4I8 | 11 |
| | 1I9U | 18 |
| | 3I9L | 20 |
| --- | --- | --- |
| --- | --- | --- |

| Row | 2 Delay | 4 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | 1.8 |
| 8 | Rt Turn 10.0 | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 5J1 | 13 |
| | 6J2U | 2 |
| | 6J2L | 6 |
| | 6J3U | 22 |
| | 6J3L | 26 |
| | 6J4 | 10 |
| | 7J5 | 15 |
| | 8J6U | 4 |
| | 8J6L | 8 |
| | 8J7U | 24 |
| | 8J7L | 28 |
| | 8J8 | 12 |
| | 5J9U | 17 |
| | 7J9L | 19 |
| --- | --- | --- |
| --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 – – – – | 1234___ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | – – – – 21 22 23 24 | ___5678 |
| E | – – – – – – – – | 1234___ |
| F | – 25 26 27 28 – – – | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: LYTTON ST @ ROSECRANS ST

223 Program

| Row | Column # ---> | Plan 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Plan Name ---> | | MID | | WKND | | AM | PM | | |
| 0 | Cycle Length | | 140 | | 140 | | 130 | 160 | | |
| 1 | Phase 1 - ForceOff | | 90 | | 90 | | 100 | 108 | | |
| 2 | Phase 2 - ForceOff | | 0 | | 0 | | 0 | 0 | | |
| 3 | Phase 3 - ForceOff | | 38 | | 38 | | 36 | 36 | | |
| 4 | Phase 4 - ForceOff | | 77 | | 77 | | 75 | 82 | | |
| 5 | Phase 5 - ForceOff | | 90 | | 90 | | 91 | 98 | | |
| 6 | Phase 6 - ForceOff | | 0 | | 0 | | 0 | 0 | | |
| 7 | Phase 7 - ForceOff | | 38 | | 38 | | 76 | 82 | | |
| 8 | Phase 8 - ForceOff | | 69 | | 69 | | 36 | 52 | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | | 47 | | 47 | | 35 | 150 | | |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | | 10 | | 10 | | 13 | 16 | | |
| E | Hold Release | | 255 | | 255 | | 255 | 255 | | |
| F | Ped Shift | | 10 | | 10 | | 0 | 0 | | |

Coordination <C Page>

C + Plan + ROW

Coordination Timing By: M2S
Implemented On: 3/22/2010

FOR OBSERVATION ONLY

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + E |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 06 : 00 | 6 | A | _23456_ |
| 1 | 11 : 00 | 2 | A | _23456_ |
| 2 | 13 : 00 | 7 | A | _23456_ |
| 3 | 19 : 30 | E | A | _23456_ |
| 4 | 10 : 00 | 4 | A | 1____7 |
| 5 | 18 : 00 | E | A | 1____7 |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination

<9 Key with C+0+9=1>

| | E | Row | | F |
|---|---|---|---|---|
| | | 0 | Free Lag | |
| Plan 1 | | 1 | Plan 1 - Lag | |
| Plan 2 | _2__6__ | 2 | Plan 2 - Lag | _2_4_6_8 |
| Plan 3 | | 3 | Plan 3 - Lag | |
| Plan 4 | _2__6__ | 4 | Plan 4 - Lag | _2_4_6_8 |
| Plan 5 | | 5 | Plan 5 - Lag | |
| Plan 6 | _2__6__ | 6 | Plan 6 - Lag | _2_4_67_ |
| Plan 7 | _2__6__ | 7 | Plan 7 - Lag | _2_4_67_ |
| Plan 8 | | 8 | Plan 8 - Lag | |
| Plan 9 | | 9 | Plan 9 - Lag | |
| Coord Ped* | | A | Coord Max * | |
| NEMA Hold | | B | Coord Lag * | |
| | | C | | |
| | | D | | |
| | | E | | |
| | | F | | |

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

| Transition Type | 0 |
|---|---|

TBC Transition
C + D + D

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

Transition Type
0 = Shortway
Non-zero = Lengthen

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Function <D Page>

7 + ROW D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | 2 |
| 6 | Ped 6P | 6 |
| 7 | Ped 4P | 4 |
| 8 | Ped 8P | 8 |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | |

Configuration <E Page>

E + F + ROW

Day of Week
1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | 2 5 |
| B | EV-B Phases | 4 7 |
| C | EV-C Phases | 1 6 |
| D | EV-D Phases | 3 8 |
| E | Extra 1 Config. Bits | 1 345 |
| F | IC Select (Interconnect) | 2 |

Configuration

For access, set F + 9 + E = 1 E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date
8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 | D+E |
|---|---|---|

Dial-Up Telephone Communications
(if set to a non-zero value, parity will be disabled)

Program Information
C + C + 0 = program
C + C + F = version

Remote Download
C + 0 + 4 = 1-255
w/ E + E + E bit 5 on

LOCATION: RTE 8 WB @ SPORTS ARENA BLAVD / WEST MISSION BAY DRIVE

CALTRANS C8 Version 3 DATE: 5/3/2011

F PAGE

2



| | INTERVAL | PHASE TIMING 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PRE-EMPTION E | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | WALK | 1 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | CLK RST | EV SEL | 0 |
| 1 | DONT WALK | 1 | 12 | 1 | 1 | 1 | 1 | 1 | 1 | | RR1 CLR | 5 |
| 2 | MIN GREEN | 5 | 10 | 1 | 5 | 1 | 10 | 1 | 1 | | EVA DLY | 0 |
| 3 | TYPE 3 DET | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | EVA CLR | 5 |
| 4 | ADD/VEH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | EVB DLY | 0 |
| 5 | PASSAGE | 2.0 | 2.0 | 0.9 | 2.0 | 0.9 | 2.0 | 0.9 | 0.9 | | EVB CLR | 5 |
| 6 | MAX GAP | 2.0 | 2.0 | 0.9 | 2.0 | 0.9 | 2.0 | 0.9 | 0.9 | | EVC DLY | 0 |
| 7 | MIN GAP | 2.0 | 2.0 | 0.9 | 2.0 | 0.9 | 2.0 | 0.9 | 0.9 | | EVC CLR | 5 |
| 8 | MAX EXT | 40 | 40 | 9 | 35 | 9 | 65 | 9 | 9 | | EVD DLY | 0 |
| 9 | MAX 2 | 20 | 30 | | | | 90 | | | YR | EVD CLR | 5 |
| A | MAX 3 | 30 | 25 | | | | 120 | | | MO | MAX EV | 255 |
| B | | | | | | | | | | DAY | RR2 CLR | 5 |
| C | REDUCE BY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | DOW | | |
| D | EVERY | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | HR | | |
| E | YELLOW | 5.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 3.0 | MIN | | |
| F | RED | 2.0 | 2.0 | 0.0 | 2.0 | 0.0 | 2.0 | 0.0 | 0.0 | SEC | | |
| | PED XING FT | | 67 | | | | | | | | | |
| | BIKE XING FT | | 128 | | | | 140 | | | | | |

| F FLAGS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---|---|---|---|---|---|---|---|---|---|
| PERMIT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 |
| RED LOCK | | | | | | | | | 1 |
| YEL LOCK | | | | 4 | | | | | 2 |
| V RECALL | | 2 | | | | 6 | | | 3 |
| P RECALL | | | | | | | | | 4 |
| PED PHASES | | 2 | | | | | | | 5 |
| RT OLA | | | | | | | | | 6 |
| RT OLB | | | | | | | | | 7 |
| DBL ENTRY | | | | 4 | | | | 8 | 8 |
| MAX 2 PHASES | 1 | 2 | | | | 6 | | | 9 |
| LAG PHASES | READ ONLY | | | | | | | | A |
| RED REST | | | | | | | | | B |
| REST-IN-WALK | | | | | | | | | C |
| MAX 3 PHASES | 1 | 2 | | | | 6 | | | D |
| YEL START UP | | 2 | | | | 6 | | | E |
| FIRST PHASE | | | | 4 | | | | | F |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

| | |
|---|---|
| FOC LONG FAILURE | |
| FOD SHORT FAILURE | |
| FOE | 0 |
| FOF | 5 |
| FC0 | 3 |
| FC1 | 3 |
| FC2 | 10 |
| FCA | 0.0 |
| FCB | 0.0 |
| FCC | 0.0 |
| FCD | 0.0 |
| FD0 TB SELECT | 1 |
| FD3 PED SELECT | 0 |
| FD4 7 WIRE | 0 |
| FD5 PERMISSIVE | 0 |
| FD8 OS SEEKING | 1 |
| CO5 FLASH TYPE | 1 |
| CC2 DOWNLOAD | 1 |

*ENTRIES IN THESE LOCATIONS ARE NOT TO BE CHANGED*

*ENTRIES IN THESE LOCATIONS CAN BE CHANGED IN CC1 FLASH ONLY*

LOCATION: RTE 8 WB @ SPORTS ARENA BLAVD / WEST MISSION BAY DRIVE

CALTRANS C8 Version 3 DATE: 5/3/2011



D PAGE

| | D | FLAGS | | | | | | | | E | FLAGS | | | | | | | | F | FLAGS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MAX | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | MIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | PED | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0 | RCL | | | | | | | | | RCL | | | | | | | | | RCL | | | | | | | | |
| 1 | CP 1 | | | | | | | | | CP 1 | | | | | | | | | CP 1 | | | | | | | | |
| 2 | CP 2 | | | | | | | | | CP 2 | | | | | | | | | CP 2 | | | | | | | | |
| 3 | CP 3 | | | | | | | | | CP 3 | | | | | | | | | CP 3 | | | | | | | | |
| 4 | CP 4 | | | | | | | | | CP 4 | | | | | | | | | CP 4 | | | | | | | | |
| 5 | CP 5 | | | | | | | | | CP 5 | | | | | | | | | CP 5 | | | | | | | | |
| 6 | CP 6 | | | | | | | | | CP 6 | | | | | | | | | CP 6 | | | | | | | | |
| 7 | CP 7 | | | | | | | | | CP 7 | | | | | | | | | CP 7 | | | | | | | | |
| 8 | CP 8 | | | | | | | | | CP 8 | | | | | | | | | CP 8 | | | | | | | | |
| 9 | CP 9 | | | | | | | | | CP 9 | | | | | | | | | CP 9 | | | | | | | | |
| A | | | | | | | | | | | | | | | | | | | RCL 1 | | | | | | | | |
| B | | | | | | | | | | | | | | | | | | | RCL 2 | | | | | | | | |
| C | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

E PAGE

| | E | FLAGS | | | | | | | | F | FLAGS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FUNCTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | FUNCTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 0 | | | | | | | | | | CODE 4 | 1 | | | | | | | | 0 |
| 1 | | | | | | | | | | CODE 5 | | | | | | | | | 1 |
| 2 | | | | | | | | | | C-RECALL | | | | | | | | | 2 |
| 3 | | | | | | | | | | D-RECALL | | | | | | | | | 3 |
| 4 | | | | | | | | | | EXCLUSIVE | | | | | | | | | 4 |
| 5 | | | | | | | | | | 2 PED | | 2 | | | | | | | 5 |
| 6 | | | | | | | | | | 6 PED | | | | | | 6 | | | 6 |
| 7 | | | | | | | | | | 4 PED | | | | 4 | | | | | 7 |
| 8 | | | | | | | | | | 8 PED | | | | | | | | 8 | 8 |
| 9 | | | | | | | | | | | | | | | | | | | 9 |
| A | OLA NOT | | 2 | | | | | | | OLA ON | 1 | | | 4 | | 6 | | | A |
| B | OLB NOT | | | | | | | | | OLB ON | | | | | | | | | B |
| C | OLC NOT | | | | | | | | | OLC ON | | | | | | | | | C |
| D | OLD NOT | | | | | | | | | OLD ON | | | | | | | | | D |
| E | | | | | | | | | | | | | | | | | | | E |
| F | | | | | | | | | | | | | | | | | | | F |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

*LAST POWER FAILURE REGISTER*

HOUR = D-A-E

MINUTE = D-B-E

DAY = D-C-E

RCL 1 = TIME OF DAY MAX RECALL (1ST SELECT) PHASES

*(CALL ACTIVE LIGHTS)*

RCL 2 = TIME OF DAY MAX RECALL (2ND SELECT) PHASES

*(CALL ACTIVE LIGHTS)*

*LAST FLASH TIME REGISTER*

HOUR = D-A-F

MINUTE = D-B-F

DAY = D-C-F

*D-E-E = C8 VERSION NUMBER*

*D-E-F = LITHIUM BATTERY CONDITION*

*84 = BAD*

*85 = GOOD*

LOCATION: RTE 8 WB @ SPORTS ARENA BLAVD / WEST MISSION BAY DRIVE

CALTRANS C8 Version 3 DATE: 5/3/2011



7 PAGE

| TIME OF DAY ACTIVITY TABLE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7+EVENT+HR+MIN+ACT+"E"+ON/OFF+DOW LTS | | | | | | | | | | | |
| | | | | ON/ | S | M | T | W | T | F | S |
| | HR | MIN | ACT | OFF | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | 11 | 00 | 2 | X | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | 11 | 01 | 4 | X | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 19 | 00 | 2 | | | 2 | 3 | 4 | 5 | 6 | |
| 3 | 19 | 01 | 4 | | | 2 | 3 | 4 | 5 | 6 | |
| 4 | 16 | 00 | 3 | X | 1 | | | | | | 7 |
| 5 | 16 | 01 | 2 | | 1 | | | | | | 7 |
| 6 | 19 | 30 | 4 | | 1 | | | | | | 7 |
| 7 | 19 | 31 | 3 | | 1 | | | | | | 7 |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| A | | | | | | | | | | | |
| B | | | | | | | | | | | |
| C | | | | | | | | | | | |
| D | | | | | | | | | | | |
| E | | | | | | | | | | | |
| F | | | | | | | | | | | |

9 PAGE C09 = 0 or 1

| CONTROL PLAN TIME OF DAY | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9+EVENT+HR+MIN+CP+OS+E+DOW | | | | | | | | | | | |
| | | | | | S | M | T | W | T | F | S |
| | HR | MIN | CP | OS | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| A | | | | | | | | | | | |
| B | | | | | | | | | | | |
| C | | | | | | | | | | | |
| D | | | | | | | | | | | |
| E | | | | | | | | | | | |
| F | | | | | | | | | | | |

9 PAGE C09 = 2

| CONTROL PLAN TIME OF DAY | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9+EVENT+HR+MIN+CP+OS+E+DOW | | | | | | | | | | | |
| | | | | | S | M | T | W | T | F | S |
| | HR | MIN | CP | OS | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| A | | | | | | | | | | | |
| B | | | | | | | | | | | |
| C | | | | | | | | | | | |
| D | | | | | | | | | | | |
| E | | | | | | | | | | | |
| F | | | | | | | | | | | |

**ACTIVITY CODE**

1 TYPE OF MAX TERMINATION
2 MAX 2
3 MAX 3
4 COND SERV (1ST SELECT)
5 COND SERV (2ND SELECT)
6 ENERGIZE AUX OUTPUT-RED
7 ENERGIZE AUX OUTPUT-GREEN
8 ENERGIZE AUX OUTPUT-YELLOW
9 TIME OF DAY MAX RECALL (1ST SELECT)
A TRAFFIC ACT. MAX 2 OPERATION
B TIME OF DAY MAX RECALL (2ND SELECT)
C YELLOW YIELD COORDINATION
D YELLOW YIELD COORDINATION
E TIME OF DAY FREE OPERATION
F FLASHING OPERATION

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD | 8 | L1.2 | 32 | 53 |

REGISTERED ELECTRICAL ENGINEER 03-03-10 DATE

03-22-10 PLANS APPROVAL DATE

FARIBA RAMOS No. 15619 Exp. 12-31-11 ELECTRICAL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

THE STATE OF CALIFORNIA ON ITS OFFICES OF ASLIMS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF COMPUTERIZED OR SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTES:

1 - Exist MODEL 332 CABINET.

2 - FURNISH AND INSTALL VDU AND VIDEO DISPLAY IN MODEL 332 CABINET.

3 - DETAIL U ES-7N. SEE SIGN PLANS.

4 - RC EXISTING PB AND REPLACE WITH NEW PB AS SHOWN.

5 - SV-1-T 5 SECTION SIGNAL HEAD TO BE MOUNTED AT 17'.

6 - TO EASTBOUND ON RAMP METERING CONTROLLER CABINET, Z1.404.

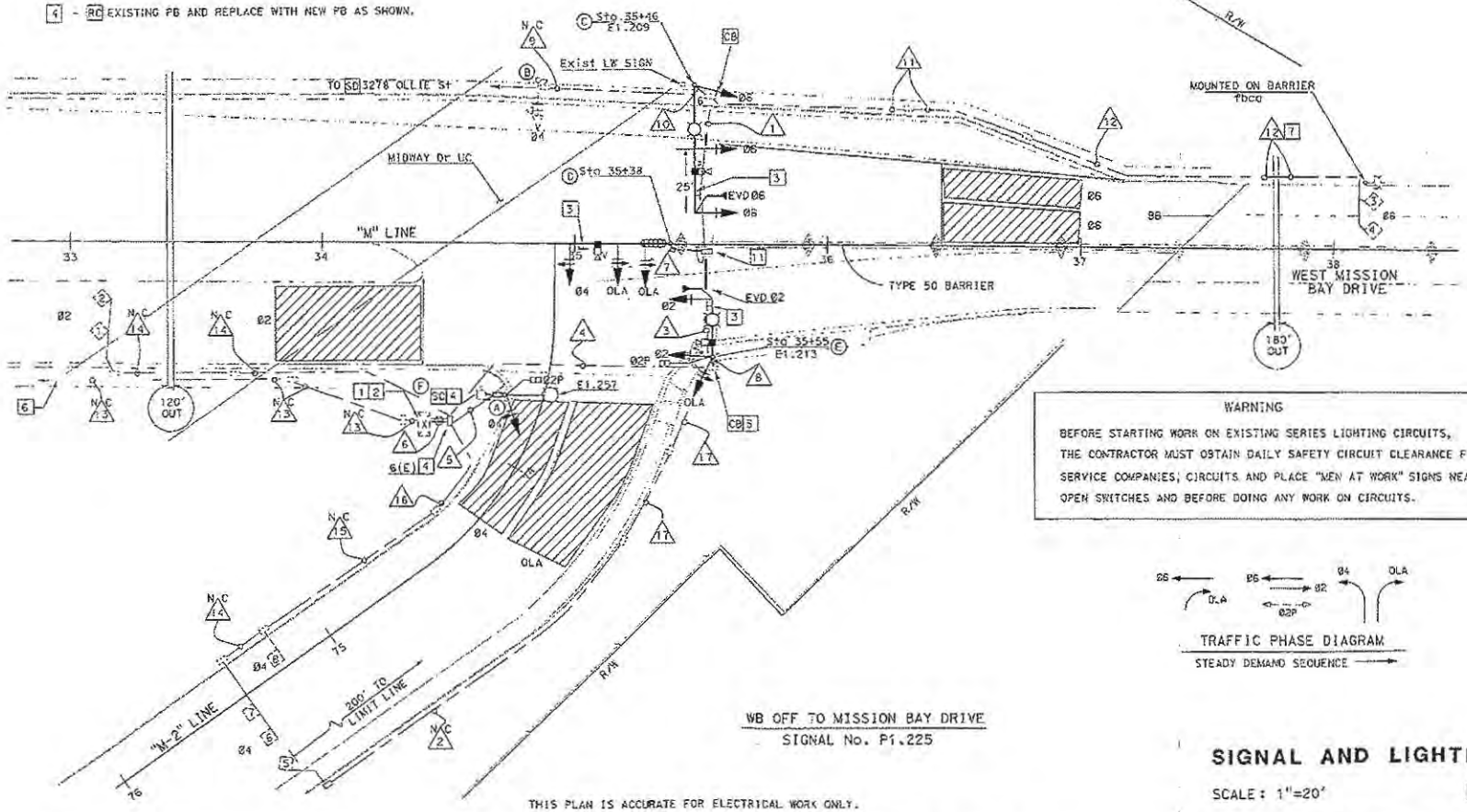
7 - EX TYPE 1 CONDUIT STRAPPED TO EX TYPE 25 BARRIER, NWR.

8 - FOR EQUIPMENT AND POLE SCHEDULE SEE E-3.

9 - FOR CONDUIT AND CONDUCTOR SCHEDULE SEE E-3.

10 - FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

11 - REPLACE Exist PB. WITH 6 (T).




WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVICE COMPANIES; CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES AND BEFORE DOING ANY WORK ON CIRCUITS.




TRAFFIC PHASE DIAGRAM

STEADY DEMAND SEQUENCE →

WB OFF TO MISSION BAY DRIVE

SIGNAL No. P1.225

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

# SIGNAL AND LIGHTING

SCALE: 1"=20'

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans · TRAFFIC ELECTRICAL

FUNCTIONAL SUPERVISOR: DALE WILSON

CALCULATED/DESIGNED BY: FARIBA RAMOS

CHECKED BY: ENRIQUE BERNAL

REVISED BY | DATE REVISED

LAST REVISED DATE PLOTTED => 03-22-2010 TIME PLOTTED => 09:53

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IN INCHES 0 1 2 3

USERNAME => s127460

DGN FILE => 028660u0002.dgn

CU 11233

EA 286601

# INTERSECTION: MIDWAY @ SPORTS ARENA

22 rogram

4

Group Assignment: 4109
Field Master Assignment: NONE

N/S Street Name: MIDWAY
E/W Street Name: SPORTS ARENA

Last Database Change: N/A
System Ref. Number: 604

N

JDS 12/10/09

| Column # ---> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| | SPORTS AREN | W PT LOMA | MIDWAY | SPORTS ARENA | | | | |
| Phase # ---> | 1 | 2 | 2+3 | 4 | | | | |
| Row | | | | | | | | |
| 0 | Ped Walk | 7.5 | 7.5 | 7.5 | 7.5 | | | |
| 1 | Ped FDW | 24 | 24 | 28 | 28 | | | |
| 2 | Min Green | 6 | 6 | 6 | 6 | | | |
| 3 | Type 3 Limit | | | | | | | |
| 4 | Add/Veh | | | | | | | |
| 5 | Veh Extn | 8.2 | 5.5 | 3.1 | 5.5 | | | |
| 6 | Max Gap | 8.2 | 5.5 | 3.1 | 5.5 | | | |
| 7 | Min Gap | 0.2 | 0.2 | 0.2 | 0.2 | | | |
| 8 | Max Limit | 50 | 35 | 30 | 30 | | | |
| 9 | Max Limit 2 | | | | | | | |
| A | Bus Adv | | | | | | | |
| B | Call to Phs | | | | | | | |
| C | Reduce By | 0.1 | 0.1 | 0.1 | 0.1 | | | |
| D | Every | 0.4 | 0.6 | 1.0 | 0.9 | | | |
| E | Yellow | 4.0 | 3.9 | 3.9 | 3.9 | | | |
| F | Red Clear | 1.0 | 1.0 | 1.0 | 1.0 | | | |
| | Grade | | | | | | | |

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| | E |
|---|---|
| RR-1 Delay | |
| RR-1 Clear | |
| EV-A Delay | 0 |
| EV-A Clear | 0 |
| EV-B Delay | 0 |
| EV-B Clear | 0 |
| EV-C Delay | 0 |
| EV-C Clear | 0 |
| EV-D Delay | 0 |
| EV-D Clear | 0 |
| RR-2 Delay | |
| RR-2 Clear | |
| View EV Delay | --- |
| View EV Clear | --- |
| View RR Delay | --- |
| View RR Clear | --- |

Preempt Timing
F + E + Row

| Row | | F |
|---|---|---|
| 0 | Permit | 1234 |
| 1 | Red Lock | |
| 2 | Yellow Lock | |
| 3 | Min Recall | 4 |
| 4 | Ped Recall | |
| 5 | Pede (View) | 1234 |
| 6 | Rest In Walk | |
| 7 | Red Rest | |
| 8 | Dbl Entry | |
| 9 | Max Recall | |
| A | Soft Recall | |
| B | Max 2 | |
| C | Cond Serv | |
| D | Ped Lock | 12345678 |
| E | Yellow Start | 2 |
| F | 1st Phases | 3 |

Phase Functions <F Page>
F + F + Row

***AUDIBLE SIGNAL, USE 3.5FPS TO IMPROVE SAFETY OF DISABLED PEDESTRIANS***

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 5.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 3 | C + 0 + 0 |
| Zone Number | 3 | C + 0 + 1 |
| Area Number | 0 | C + 0 + 2 |
| Area Address | 193 | C + 0 + 3 |
| QuicNet Channel | DIGI62: | (QuicNet) |

Communication Addresses

| C + F + O | F | Row |
|---|---|---|
| Free Lag | 2 4 | 0 |

Lag Phases <C Page>

Overlap Timing

| | Row | 9 Green Clear | C Yellow Change | D Red Clear | 0 Load-Switch # |
|---|---|---|---|---|---|
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | 234 |

Disable Communication Ports
D + D + 9

Timing Sheet By: JD/AM
Approved By: MM
Drawing Number: 14812-4-D
Timing Implemented On:

10

| Row | 1 Delay | 3 Carry-over |
|---|---|---|
| 0 | | 1.8 |
| 1 | | 1.8 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | 1.8 |
| 7 | | 1.8 |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 1I1 | 14 |
| | 2I2U | 1 |
| | 2I2L | 5 |
| | 2I3U | 21 |
| | 2I3L | 25 |
| | 2I4 | 9 |
| | 3I5 | 16 |
| | 4I6U | 3 |
| | 4I6L | 7 |
| | 4I7U | 23 |
| | 4I7L | 27 |
| | 4I8 | 11 |
| | 1I9U | 18 |
| | 3I9L | 20 |
| --- | --- | --- |
| --- | --- | --- |

| Row | 2 Delay | 4 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 5J1 | 13 |
| | 6J2U | 2 |
| | 6J2L | 6 |
| | 6J3U | 22 |
| | 6J3L | 26 |
| | 6J4 | 10 |
| | 7J5 | 15 |
| | 8J6U | 4 |
| | 8J6L | 8 |
| | 8J7U | 24 |
| | 8J7L | 28 |
| | 8J8 | 12 |
| | 5J9U | 17 |
| | 7J9L | 19 |
| --- | --- | --- |
| --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 – – – – | 1234____ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | – – – – 21 22 23 24 | ____5678 |
| E | – – – – – – – – | 1234____ |
| F | – 25 26 27 28 – – – | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: MIDWAY @ SPORTS ARENA

223 Program

| Row | Column # ---> / Plan Name ---> | Plan 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Cycle Length | | | | | 140 | 150 | | | |
| 1 | Phase 1 - ForceOff | | | | | 70 | 72 | | | |
| 2 | Phase 2 - ForceOff | | | | | 105 | 114 | | | |
| 3 | Phase 3 - ForceOff | | | | | 0 | 0 | | | |
| 4 | Phase 4 - ForceOff | | | | | 36 | 40 | | | |
| 5 | Phase 5 - ForceOff | | | | | | | | | |
| 6 | Phase 6 - ForceOff | | | | | | | | | |
| 7 | Phase 7 - ForceOff | | | | | | | | | |
| 8 | Phase 8 - ForceOff | | | | | | | | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | | | | | 25 | 16 | | | |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | | | | | 10 | 10 | | | |
| E | Hold Release | | | | | 255 | 255 | | | |
| F | Ped Shft | | | | | 0 | 0 | | | |

Coordination <C Page>

C + Plan + ROW

Coordination Timing By: AM
Implemented On: 3/18/03

FOR OBSERVATION ONLY

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + E |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 11 : 00 | 5 | A | 23456 |
| 1 | 13 : 00 | 6 | A | 23456 |
| 2 | 18 : 00 | E | A | 1234567 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination

<9 Key with C+0+9=1>

| | E |
|---|---|
| Plan 1 | |
| Plan 2 | |
| Plan 3 | |
| Plan 4 | |
| Plan 5 | 3 |
| Plan 6 | 3 |
| Plan 7 | |
| Plan 8 | |
| Plan 9 | |
| Coord Ped* | |
| NEMA Hold | |

Sync Phases

C + E + FUNCTION #

| Row | | F |
|---|---|---|
| 0 | Free Lag | 2 4 |
| 1 | Plan 1 - Lag | |
| 2 | Plan 2 - Lag | |
| 3 | Plan 3 - Lag | |
| 4 | Plan 4 - Lag | |
| 5 | Plan 5 - Lag | 2 4 |
| 6 | Plan 6 - Lag | 2 4 |
| 7 | Plan 7 - Lag | |
| 8 | Plan 8 - Lag | |
| 9 | Plan 9 - Lag | |
| A | Coord Max * | |
| B | Coord Lag * | |
| C | | |
| D | | |
| E | | |
| F | | |

Lag Phases <C Page>

C + F + FUNCTION #

| Transition Type | 0 |
|---|---|

TBC Transition
C + D + D

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

Transition Type
0 = Shortway
Non-zero = Lengthen

# INTERSECTION: MIDWAY @ SPORTS ARENA

223 Program

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

**TOD Function**

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | 2 |
| 6 | Ped 6P | 1 |
| 7 | Ped 4P | 4 |
| 8 | Ped 8P | 3 |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | 23 |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | 1 |

**Configuration**

<E Page>

E + F + ROW

## Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | 2 |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | 2 |
| B | EV-B Phases | 4 |
| C | EV-C Phases | 1 |
| D | EV-D Phases | 3 |
| E | Extra 1 Config. Bits | 1 345 |
| F | IC Select (Interconnect) | 2 |

**Configuration**

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

## Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 | D+B+0 |
|---|---|---|

**Dial-Up Telephone Communications**

(If set to a non-zero value, parity will be disabled)

## Program Information

C + C + 0 = program
C + C + F = version

## Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

# INTERSECTION: KEMPER ST & MIDWAY DR

**233 Program**

Group Assignment:
Field Master Assignment:
System Reference Number:

N/S Street: KEMPER
E/W Street: MIDWAY

Last Database Change:

Timing sheets by: EFF
Approved by: EFF
Timing implemented on:

5

| | | MIDWAY | | | | | MIDWAY | KEMPER | KEMPER |
|---|---|---|---|---|---|---|---|---|---|
| | | Phase | | | | | | | |
| | Phase Numbers----> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Row | | 1+8 | | | | | | | |
| 0 | Ped Walk | | 7 | | | | 7 | 7 | 7 |
| 1 | Ped FDW | | 20 | | | | 17 | 27 | 28 |
| 2 | Min Green | 4 | 10 | | | 4 | 10 | 7 | 7 |
| 3 | Type 3 Disconnect | | | | | | | | |
| 4 | Added per Vehicle | | | | | | | | |
| 5 | Veh Extension | 2.0 | 4.6 | | | 2.0 | 4.5 | 3.0 | 3.0 |
| 6 | Max Gap | 2.0 | 4.6 | | | 2.0 | 4.5 | 3.0 | 3.0 |
| 7 | Min Gap | 2.0 | 0.2 | | | 2.0 | 0.2 | 3.0 | 3.0 |
| 8 | Max Limit | 30 | 50 | | | 30 | 50 | 30 | 30 |
| 9 | Max Limit 2 | | | | | | | | |
| A | Adv. / Delay Walk | | | | | | | | |
| B | PE Min Ped FDW | | | | | | | | |
| C | Cond Serv Check | | | | | | | | |
| D | Reduce Every | | 0.7 | | | | 0.7 | | |
| E | Yellow Change | 3.4 | 3.9 | | | 3.4 | 3.9 | 3.9 | 3.9 |
| F | Red Clear | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.0 | 1.0 |

**Phase Timing - Bank 1** <F/1+Phase+Row>

| | E |
|---|---|
| RR-1 Delay | |
| RR-1 Clear | |
| EV-A Delay | 0 |
| EV-A Clear | 0 |
| EV-B Delay | 0 |
| EV-B Clear | 0 |
| EV-C Delay | 0 |
| EV-C Clear | 0 |
| EV-D Delay | 0 |
| EV-D Clear | 0 |
| RR-2 Delay | |
| RR-2 Clear | |
| View EV Delay | - - - |
| View EV Clear | - - - |
| View RR Delay | - - - |
| View RR Clear | - - - |

**Preempt Timing** <F/1+E+Row>

| | F | Row |
|---|---|---|
| Permit | 12__5678 | 0 |
| Red Lock | | 1 |
| Yellow Lock | | 2 |
| Min Recall | _2__6__ | 3 |
| Ped Recall | | 4 |
| View Set Peds | | 5 |
| Rest In Walk | | 6 |
| Red Rest | | 7 |
| Double Entry | | 8 |
| Max Recall | | 9 |
| Soft Recall | | A |
| Max 2 | | B |
| Cond. Service | | C |
| Man Cntrl Calls | | D |
| Yellow Start | _2__6__ | E |
| First Phases | _____7_ | F |

**Phase Functions** <F/1+F+Row>

Current Calculated Cycle Length: C/0 + B + F

| | 9 | A | B | C | D |
|---|---|---|---|---|---|
| | --- | --- | --- | --- | --- |
| Phase 1 | | | | | |
| Phase 2 | | | | | |
| Phase 3 | | | | | |
| Phase 4 | | | | | |
| Phase 5 | | | | | |
| Phase 6 | | | | | |
| Phase 7 | | | | | |
| Phase 8 | | | | | |
| Max Initial | | | | | |
| Alternate Walk | | | | | |
| Alternate FDW | | | | | |
| Alternate Initial | | | | | |
| Alternate Extension | | | | | |

**Alternate Timing** <F/1+Column+Phase>

| | | |
|---|---|---|
| Drop Number | 9 | <C/0+0+0> |
| Zone Number | 9 | <C/0+0+1> |
| Area Number | 0 | <C/0+0+2> |
| Area Address | 198 | <C/0+0+3> |
| QuicNet Channel | Digi62 | (QuicNet) |

**Communication Addresses**

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

(Outputs specified in Assignable Outputs at E/127+A+E & F)

| | | |
|---|---|---|
| Exclusive Walk | 0 | <F/1+0+0> |
| Exclusive FDW | 0 | <F/1+0+1> |
| All Red Clear | 0.0 | <F/1+0+2> |

**Exclusive Ped Phase**

| | | |
|---|---|---|
| Flash Start | 0 | <F/1+0+E> |
| Red Revert | 5.0 | <F/1+0+F> |
| All Red Start | 0.0 | <F/1+C+0> |

**Start / Revert Times**

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Manual Plan | 0 | <C/0+A+1> |
| Manual Offset | 0 | <C/0+B+1> |

**Manual Selection**

Notes: Phase 7P redirected in Detector Assignments table.
Frequent EVPE pre-emptions due to nearby fire station.
Use 3.5 fps ped walking speed to calculate FDW (audible ped signals)

| | | |
|---|---|---|
| Free Lag | _2__6_8 | <C/1+F+0> |

How to Set Page Access Code:
F/1 -- C + 0 + F = 1

# INTERSECTION: KEMPER ST & MIDWAY DR

# 233 Program

| Row | Detector Name | 0 C1 Pin Number | 1 Attributes | 2 Phase(s) | 3 Assign | 1 Delay | 3 Carry-Over |
|---|---|---|---|---|---|---|---|
| 0 | 2I2U | 39 | 45_7_ | 2 | 123 8 | | 1.8 |
| 1 | 6J2U | 40 | 45_7_ | 6 | 123 8 | | 1.8 |
| 2 | | 41 | 45_7_ | 4 | 123 8 | | |
| 3 | | 42 | 45_7_ | 8 | 123 8 | | |
| 4 | | 43 | 45_7_ | 2 | 123 8 | | |
| 5 | | 44 | 45_7_ | 6 | 123 8 | | |
| 6 | | 45 | 45_7_ | 4 | 123 8 | | |
| 7 | | 46 | 45_7_ | 8 | 123 8 | | |
| 8 | | 47 | 67_ | 2 | 123 8 | | |
| 9 | | 48 | 67_ | 6 | 123 8 | | |
| A | | 49 | 67_ | 4 | 123 8 | | |
| B | | 50 | 67_ | 8 | 123 8 | | |
| C | | 55 | 45_7_ | 5 | 123 8 | | |
| D | | 56 | 45_7_ | 1 7 | 123 8 | | |
| E | | 57 | 45_7_ | 7 | 123 8 | | |
| F | | 58 | 45_7_ | 3 | 123 8 | | |

| Row | Detector Name | 4 C1 Pin Number | 5 Attributes | 6 Phase(s) | 7 Assign | 2 Delay | 4 Carry-Over |
|---|---|---|---|---|---|---|---|
| 0 | | 59 | 45_7_ | 5 | 123 8 | | |
| 1 | | 60 | 45_7_ | 1 7 | 123 8 | | |
| 2 | 7J9L | 61 | 45_7_ | 7 | 123 8 | 10.0 | |
| 3 | | 62 | 45_7_ | 3 | 123 8 | | |
| 4 | | 63 | 45_7_ | 2 | 123 8 | | |
| 5 | | 64 | 45_7_ | 6 | 123 8 | | |
| 6 | | 65 | 45_7_ | 4 | 123 8 | | |
| 7 | 8J7U | 66 | 45_7_ | 8 | 123 8 | 10.0 | |
| 8 | | 67 | 2 | 2 | 123 8 | | |
| 9 | | 68 | 2 | 6 | 123 8 | | |
| A | Phase 7 Ped | 69 | 2 | 7 | 123 8 | | |
| B | | 70 | 2 | 8 | 123 8 | | |
| C | | 76 | 45_7_ | 2 | 123 8 | | |
| D | | 77 | 45_7_ | 6 | 123 8 | | |
| E | | 78 | 45_7_ | 4 | 123 8 | | |
| F | | 79 | 45_7_ | 8 | 123 8 | | |

Detector Assignments <E/126+Column+Row> <D/0+Column+Row>

Program Type:

| | Ped / Phase / Overlap 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Row |
|---|---|---|---|---|---|---|---|---|---|
| Walk | | | | | | | | | 0 |
| Don't Walk | | | | | | | | | 1 |
| Phase Green | | | | | | | | | 2 |
| Phase Yellow | | | | | | | | | 3 |
| Phase Red | | | | | | | | | 4 |
| Overlap Green | 35 | | | | | | | | 5 |
| Overlap Yellow | 37 | | | | | | | | 6 |
| Overlap Red | | | | | | | | | 7 |

Redirect Phase Outputs <E/127+Column+Row>

| | |
|---|---|
| Cabinet Type | 30 |

<E/125+D+0>

Enable Redirection
(Enable Redirection = 30)

| | | |
|---|---|---|
| Max OFF (minutes) | 5 | <D/0+0+1> |
| Max ON (minutes) | 60 | <D/0+0+2> |

Detector Failure Monitor

| | D | Row |
|---|---|---|
| | | 0 |
| Output Port 1 | | 1 |
| Output Port 2 | | 2 |
| Output Port 3 | | 3 |
| Output Port 4 | | 4 |
| Output Port 5 | | 5 |
| Output Port 6 | | 6 |
| Output Port 7 | | 7 |

Dimming <E/125+D+Row>

Detector Attributes
1 = Full Time Delay
2 = Ped Call
3 =
4 = Count
5 = Extension
6 = Type 3
7 = Calling
8 = Alternate

Det. Assignments
1 = Det. Set 1
2 = Det. Set 2
3 = Det. Set 3
4 =
5 =
6 = Failure - Min Recall
7 = Failure - Max Recall
8 = Report on Failure

| | D |
|---|---|
| Number of Digits | |
| 1 st Digit | |
| 2 ed Digit | |
| 3 ed Digit | |
| 4 th Digit | |
| 5 th Digit | |
| 6 th Digit | |
| 7 th Digit | |
| 8 th Digit | |
| 9 th Digit | |
| 10 th Digit | |
| 11 th Digit | |
| 12 th Digit | |
| 13 th Digit | |
| 14 th Digit | |
| 15 th Digit | |

<C/5+D+Row>

Dial-Back Telephone Number

Disable Alarms
1 = Stop Time
2 = Flash Sense
3 = Keyboard Entry
4 = Manual Plan
5 = Police Control
6 = External Alarm
7 = Detector Failure
8 =

| | B | Row |
|---|---|---|
| DELAY-A | 1 | A |
| DELAY-B | 1 | B |
| DELAY-C | 0 | C |
| DELAY-D | 0 | D |
| DELAY-E | 0 | E |
| DELAY-F | 0 | F |

<D/0+B+Row> (seconds)

Delay Logic Times

| | |
|---|---|
| Omit Alarm | |

<C/5+F+0>

Disable Alarm Reporting

| | | |
|---|---|---|
| Time | 0 | <C/5+C+0> |

Redial Time (minutes)
(View Redial Timer at E/2+D+6

# INTERSECTION: KEMPER ST & MIDWAY DR

# 233 Program

| Row | Plan Name ----> | Plan 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Cycle Length | | | | | 140 | 150 | | | |
| 1 | Phase 1 - ForceOff | | | | | 94 | 90 | | | |
| 2 | Phase 2 - ForceOff | | | | | 0 | 0 | | | |
| 3 | Phase 3 - ForceOff | | | | | | | | | |
| 4 | Phase 4 - ForceOff | | | | | | | | | |
| 5 | Phase 5 - ForceOff | | | | | 94 | 86 | | | |
| 6 | Phase 6 - ForceOff | | | | | 0 | 0 | | | |
| 7 | Phase 7 - ForceOff | | | | | 40 | 35 | | | |
| 8 | Phase 8 - ForceOff | | | | | 76 | 66 | | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset 1 | | | | | 6 | 124 | | | |
| B | Offset 2 | | | | | | | | | |
| C | Offset 3 | | | | | | | | | |
| D | Perm 1 - End | | | | | 12 | 12 | | | |
| E | Hold Release | | | | | 255 | 255 | | | |
| F | Zone Offset | | | | | 0 | 0 | | | |

Coordination - Timing Plans <C/1+Plan+Row>

Coord Extra
1 = Programmed WALK Time for Sync Phases
2 = Always Terminate Sync Phase Peds

| Row | | E |
|---|---|---|
| 0 | | |
| 1 | Plan 1 - Sync | |
| 2 | Plan 2 - Sync | |
| 3 | Plan 3 - Sync | |
| 4 | Plan 4 - Sync | |
| 5 | Plan 5 - Sync | _2__6__ |
| 6 | Plan 6 - Sync | _2__6__ |
| 7 | Plan 7 - Sync | |
| 8 | Plan 8 - Sync | |
| 9 | Plan 9 - Sync | |
| A | NEMA Sync | |
| B | NEMA Hold | |
| C | | |
| D | | |
| E | Coord Extra | |
| F | | |

Sync Phases <C/1+E+Row>

| Row | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Ped Adjustment | | | | | 4 | 9 | | | |
| 1 | Perm 2 - Start | | | | | | | | | |
| 2 | Perm 2 - End | | | | | | | | | |
| 3 | Perm 3 - Start | | | | | | | | | |
| 4 | Perm 3 - End | | | | | | | | | |
| 5 | Reservice Time | | | | | | | | | |
| 6 | Reservice Phases | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | Pretimed Phases | | | | | | | | | |
| 9 | Max Recall | | | | | | | | | |
| A | Perm 1 Veh Phase | | | | | | | | | |
| B | Perm 1 Ped Phase | | | | | | | | | |
| C | Perm 2 Veh Phase | | | | | | | | | |
| D | Perm 2 Ped Phase | | | | | | | | | |
| E | Perm 3 Veh Phase | | | | | | | | | |
| F | Perm 3 Ped Phase | | | | | | | | | |

Coordination - Parameters <C/2+Plan+Row>

| Row | | F |
|---|---|---|
| 0 | Free Lag | |
| 1 | Plan 1 - Lag | |
| 2 | Plan 2 - Lag | |
| 3 | Plan 3 - Lag | |
| 4 | Plan 4 - Lag | |
| 5 | Plan 5 - Lag | _2__6_8 |
| 6 | Plan 6 - Lag | _2__6_8 |
| 7 | Plan 7 - Lag | |
| 8 | Plan 8 - Lag | |
| 9 | Plan 9 - Lag | |
| A | External Lag | |
| B | | |
| C | | |
| D | | |
| E | | |
| F | | |

Lag Phases <C/1+F+Row>

Coordination Timing By: AM 3/18/2003

| Row | Column 9 | | Column A | | Column B | | Column C | | Column D | | Column E | | Column F | | Row |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Spec. Funct. 1 | | NOT-3 | | Max 2 | | Pretimed | | Set Monday | | Dial 2 (7-Wire) | | Sim Term | | 0 |
| 1 | Spec. Funct. 2 | | NOT-4 | | System Det 1 | | Plan 1 | | Ext. Perm 1 | | Dial 3 (7-Wire) | | EV-A | 71 | 1 |
| 2 | Spec. Funct. 3 | | OR-4 (a) | | System Det 2 | | Plan 2 | | Ext. Perm 2 | | Offset 1 (7-Wire) | | EV-B | 72 | 2 |
| 3 | Spec. Funct. 4 | | OR-4 (b) | | System Det 3 | | Plan 3 | | Dimming | | Offset 2 (7-Wire) | | EV-C | 73 | 3 |
| 4 | NAND-3 (a) | | OR-5 (a) | | System Det 4 | | Plan 4 | | Set Clock | | Offset 3 (7-Wire) | | EV-D | 74 | 4 |
| 5 | NAND-3 (b) | | OR-5 (b) | | System Det 5 | | Plan 5 | | Stop Time | | Free (7-Wire) | | RR-1 | 51 | 5 |
| 6 | NAND-4 (a) | | OR-6 (a) | | System Det 6 | | Plan 6 | | Flash Sense | 81 | Flash (7-Wire) | | RR-2 | 52 | 6 |
| 7 | NAND-4 (b) | | OR-6 (b) | | System Det 7 | | Plan 7 | | Manual Enable | | Excl. Ped Omit | | Spec. Event 1 | | 7 |
| 8 | OR-7 (a) | | Fig 3 Diamond | | System Det 8 | | Plan 8 | | Man. Advance | | NOT-1 | | Spec. Event 2 | | 8 |
| 9 | OR-7 (b) | | Fig 4 Diamond | | Max Inhibit (nema) | | Plan 9 | | External Alarm | | NOT-2 | | External Lag | | 9 |
| A | OR-7 (c) | | AND-4 (a) | | Force A (nema) | | DELAY-A | | Phase Bank 2 | | OR-1 (a) | | AND-1 (a) | | A |
| B | OR-7 (d) | | AND-4 (b) | | Force B (nema) | | DELAY-B | | Phase Bank 3 | | OR-1 (b) | | AND-1 (b) | | B |
| C | OR-8 (a) | | NAND-1 (a) | | C.N.A. (nema) | | DELAY-C | | Overlap Set 2 | | OR-2 (a) | | AND-2 (a) | | C |
| D | OR-8 (b) | | NAND-1 (b) | | Hold (nema) | | DELAY-D | | Overlap Set 3 | | OR-2 (b) | | AND-2 (b) | | D |
| E | OR-8 (c) | | NAND-2 (a) | | Max Recall | | DELAY-E | | Detector Set 2 | | OR-3 (a) | | AND-3 (a) | | E |
| F | OR-8 (d) | | NAND-2 (b) | | Min Recall | | DELAY-F | | Detector Set 3 | | OR-3 (b) | | AND-3 (b) | | F |

**Assignable Inputs** <E/126+Column+Row>

| Row | Column 9 | | Column A | | Column B | | Column C | | Column D | | Column E | | Column F | | Row |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Phase ON - 1 | | Preempt Fail | | Flasher 0 | | Free | | NOT-1 | | TOD Out 1 | | Dial 2 (7-Wire) | | 0 |
| 1 | Phase ON - 2 | | Sp Evnt Out 1 | | Flasher 1 | | Plan 1 | | OR-1 | | TOD Out 2 | | Dial 3 (7-Wire) | | 1 |
| 2 | Phase ON - 3 | | Sp Evnt Out 2 | | Fast Flasher | | Plan 2 | | OR-2 | | TOD Out 3 | | Offset 1 (7-Wire) | | 2 |
| 3 | Phase ON - 4 | | Sp Evnt Out 3 | | Fig 3 Diamond | | Plan 3 | | OR-3 | | TOD Out 4 | | Offset 2 (7-Wire) | | 3 |
| 4 | Phase ON - 5 | | Sp Evnt Out 4 | | Fig 4 Diamond | | Plan 4 | | AND-1 | | TOD Out 5 | | Offset 3 (7-Wire) | | 4 |
| 5 | Phase ON - 6 | | Sp Evnt Out 5 | | | | Plan 5 | | AND-2 | | TOD Out 6 | | Free (7-Wire) | | 5 |
| 6 | Phase ON - 7 | | Sp Evnt Out 6 | | | | Plan 6 | | AND-3 | | TOD Out 7 | | Flash (7-Wire) | | 6 |
| 7 | Phase ON - 8 | | Sp Evnt Out 7 | | | | Plan 7 | | NOT-2 | | TOD Out 8 | | Preempt | | 7 |
| 8 | Ph. Check - 1 | | Sp Evnt Out 8 | | NOT-3 | | Plan 8 | | EV-A | | Adv. Warn - 1 | | Low Priority A | | 8 |
| 9 | Ph. Check - 2 | | | | NOT-4 | | Plan 9 | | EV-B | | Adv. Warn - 2 | | Low Priority B | | 9 |
| A | Ph. Check - 3 | | Detector Fail | | OR-4 | | Spec. Funct. 3 | | EV-C | | DELAY-A | | Low Priority C | | A |
| B | Ph. Check - 4 | | Spec. Funct. 1 | | OR-5 | | Spec. Funct. 4 | | EV-D | | DELAY-B | | Low Priority D | | B |
| C | Ph. Check - 5 | | Spec. Funct. 2 | | OR-6 | | NAND-3 | | RR-1 | | DELAY-C | | | | C |
| D | Ph. Check - 6 | | Central Control | | AND-4 | | NAND-4 | | RR-2 | | DELAY-D | | | | D |
| E | Ph. Check - 7 | | Excl. Ped DW | | NAND-1 | | OR-7 | | Spec. Event 1 | | DELAY-E | | | | E |
| F | Ph. Check - 8 | | Excl. Ped WK | | NAND-2 | | OR-8 | | Spec. Event 2 | | DELAY-F | | | | F |

**Assignable Outputs** <E/127+Column+Row>

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 11 : 00 | 5 | A | _23456_ |
| 1 | 13 : 00 | 6 | A | _23456_ |
| 2 | 18 : 00 | E | A | 1234567 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination <9/0.1+Row>
(Bank 1)

| Time | Funct. | Day of Week |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
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| | | |
| | | |

TOD Function <7/0.1+Row>

| Row | Column 4 Phases/Bits |
|---|---|
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| A | |
| B | |
| C | |
| D | |
| E | |
| F | |

<E/27+4+Row>

| Row | Day | Year | Month | Holiday Type |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

Holiday Dates <8/1.1+Row>
(Bank 1)

| Time | Plan | Offset | Holiday Type |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |

Holiday Events <9/1.1+Row>
(Bank 1)

| Row |
|---|
| 0 |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| A |
| B |
| C |
| D |
| E |
| F |

T.O.D. Functions:
0 =
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 8

Plan Select:
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

Month Select:
1 = January
2 = February
3 = March
4 = April
5 = May
6 = June
7 = July
8 = August
9 = September
A = October
B = November
C = December

Cycle Timer:
Master: C/0 + A + 0
Ring A: C/0 + B + 0
Ring B: C/0 + D + 0

Interval Timer:
Ring A: F/0 + A + Interval Row
Ring B: F/0 + B + Interval Row

Master Plan: C/0 + A + 2
Current Plan: C/0 + A + 3
TOD Plan: C/0 + A + 5

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination <9/0.2+Row>
(Bank 2)

| Time | Funct. | Holiday Type |
|---|---|---|
| | | |
| | | |
| | | |
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| | | |

Holiday TOD Function <7/0.2+Row>

| Row | Column 4 Phases/Bits |
|---|---|
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| A | |
| B | |
| C | |
| D | |
| E | |
| F | |

<E/28+Row>

| Row | Day | Year | Month | Holiday Type |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

Holiday Dates <8/1.2+Row>
(Bank 2)

| Time | Plan | Offset | Holiday Type |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |

Holiday Events <9/1.2+Row>
(Bank 2)

| Row |
|---|
| 0 |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| A |
| B |
| C |
| D |
| E |
| F |

| Row | | Overlap 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | Load Switch Number | | | | | | | | |
| 1 | Veh Set 1 - Phases | 1 8 | | | | | | | |
| 2 | Veh Set 2 - Phases | | | | | | | | |
| 3 | Veh Set 3 - Phases | | | | | | | | |
| 4 | Neg Veh Phases | 2 7 | | | | | | | |
| 5 | Neg Ped Phases | 2 78 | | | | | | | |
| 6 | Green Omit Phases | 8 | | | | | | | |
| 7 | Green Clear Omit Phs. | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| A | | | | | | | | | |
| B | | | | | | | | | |
| C | | | | | | | | | |
| D | Green Clear | | | | | | | | |
| E | Yellow Change | 3.4 | | | | | | | |
| F | Red Clear | 1.0 | | | | | | | |

**Overlap Assignments** <E/29+Column+Row>

| | F | Row |
|---|---|---|
| Fast Green Flash Phase | | 0 |
| Green Flash Phases | | 1 |
| Flashing Walk Phases | | 2 |
| Guaranteed Passage | | 3 |
| Simultaneous Gap Term | 12345678 | 4 |
| Sequential Timing | | 5 |
| Advance Walk Phases | | 6 |
| Delay Walk Phases | | 7 |
| External Recall | | 8 |
| Start-up Overlap Green | | 9 |
| Max Extension | | A |
| Inhibit Ped Reservice | | B |
| Semi-Actuated | | C |
| Start-up Overlap Yellow | | D |
| Start-up Vehicle Calls | 12345678 | E |
| Start-up Ped Calls | 2 4 78 | F |

**Specials** <F/2+F+Row>

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Flash to PE Circuits | |
| 6 | Flash Entry Phases | |
| 7 | Disable Yellow Range | |
| 8 | Disable Ovp Yel Range | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | 2 5 |
| B | EV-B Phases | 7 |
| C | EV-C Phases | 1 6 |
| D | EV-D Phases | 8 |
| E | Extra 1 Config. Bits | 1 345 |
| F | IC Select (Interconnect) | 2 |

**Configuration** <E/125+E+Row>

| | F |
|---|---|
| Ext. Permit 1 Phases | |
| Ext. Permit 2 Phases | |
| Exclusive Ped Assign | |
| Preempt Non-Lock | 12345678 |
| Ped for 2P Output | 2 |
| Ped for 6P Output | 6 |
| Ped for 4P Output | 7 |
| Ped for 8P Output | 8 |
| Yellow Flash Phases | |
| Low Priority A Phases | |
| Low Priority B Phases | |
| Low Priority C Phases | |
| Low Priority D Phases | |
| Restricted Phases | |
| Extra 2 Config. Bits | |

**Configuration** <E/125+F+Row>

| | C | Row |
|---|---|---|
| EV-A | | 0 |
| EV-B | | 1 |
| EV-C | | 2 |
| EV-D | | 3 |
| RR-1 * | --- | 4 |
| RR-2 * | --- | 5 |
| SE-1 | 0 | 6 |
| SE-2 | 0 | 7 |
| | | 8 |
| | | 9 |
| | | A |
| | | B |
| | | C |
| | | D |
| | | E |
| | | F |

<E/125+C+Row>

**Preemption Priority**

( * RR-1 is always Highest, and RR-2 is always Second Highest )

| | 2 | Row |
|---|---|---|
| | | 0 |
| Phase 1 | 0 | 1 |
| Phase 2 | 0 | 2 |
| Phase 3 | 0 | 3 |
| Phase 4 | 0 | 4 |
| Phase 5 | 0 | 5 |
| Phase 6 | 0 | 6 |
| Phase 7 | 0 | 7 |
| Phase 8 | 0 | 8 |
| | | 9 |
| | | A |
| | | B |
| | | C |
| | | D |
| | | E |
| | | F |

<C/5+2+Row>

**Coordination Transition Minimums**

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Extended Status
6 = International Ped
7 = Flash - Clear Outputs
8 = Split Ring

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Extra 2 Flags
1 = AWB During Initial
2 = LMU Installed
3 = Disable Min Walk
4 = QuicNet/4 System
5 = Ignore P/P on EV
6 =
7 = Reserved
8 =

Flash to PE & PE Non-Lock
1 = EV A 5 = RR 1
2 = EV B 6 = RR 2
3 = EV C 7 = SE 1
4 = EV D 8 = SE 2

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

**Time and Date**

| | | |
|---|---|---|
| Begin Month | 0 | <C/5+2+A> |
| Begin Week | 0 | <C/5+2+B> |
| End Month | 0 | <C/5+2+C> |
| End Week | 0 | <C/5+2+D> |

**Daylight Savings Time**

Daylight Savings Date:
If set to all zeros, standard dates will be used.

# INTERSECTION: EAST @ MIDWAY

Group Assignment: 4110
Field Master Assignment: NONE

N/S Street Name: EAST
E/W Street Name: MIDWAY

Last Database Change: 7/15/03 15:[illegible]
System Ref. Number: 612

6

22 [illegible]rogram

N

| Column # → | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| | MIDWAY Dr | | | EAST Dr | MIDWAY Dr | | | EAST Dr |
| Phase # → | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | PPLT | --- | | | PPLT | --- | | |
| Ped Walk | | 7 | | 7 | | 7 | | |
| Ped FDW | | 5 | | 13 | | 7 | | |
| Min Green | 4 | 10 | | 6 | 4 | 10 | | 4 |
| Type 3 Limit | | | | | | | | |
| Add/Veh | | | | | | | | |
| Veh Extn | 2.0 | 2.9 | | 2.0 | 2.0 | 2.9 | | 2.0 |
| Max Gap | 2.0 | 2.9 | | 2.0 | 2.0 | 2.9 | | 2.0 |
| Min Gap | 2.0 | 0.2 | | 2.0 | 2.0 | 0.2 | | 2.0 |
| Max Limit | 30 | 60 | | 40 | 30 | 60 | | 40 |
| Max Limit 2 | | | | | | | | |
| Bus Adv | | | | | | | | |
| Call to Phs | 4 | | | | 4 | | | |
| Reduce By | | 0.1 | | | | 0.1 | | |
| Every | | 1.1 | | | | 1.1 | | |
| Yellow | 3.4 | 3.9 | | 3.9 | 3.4 | 3.9 | | 3.9 |
| Red Clear | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 |
| Grade | | -1% | | -2% | | -1% | | -2% |

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| Row | | E |
|---|---|---|
| 0 | RR-1 Delay | |
| 1 | RR-1 Clear | |
| 2 | EV-A Delay | 0 |
| 3 | EV-A Clear | 0 |
| 4 | EV-B Delay | |
| 5 | EV-B Clear | |
| 6 | EV-C Delay | 0 |
| 7 | EV-C Clear | 0 |
| 8 | EV-D Delay | 0 |
| 9 | EV-D Clear | 0 |
| A | RR-2 Delay | |
| B | RR-2 Clear | |
| C | View EV Delay | --- |
| D | View EV Clear | --- |
| E | View RR Delay | --- |
| F | View RR Clear | --- |

Preempt Timing
F + E + Row

| Row | | F |
|---|---|---|
| 0 | Permit | 12_456_8 |
| 1 | Red Lock | |
| 2 | Yellow Lock | |
| 3 | Min Recall | _2_6_ |
| 4 | Ped Recall | |
| 5 | Peds (View) | _2_4_6__ |
| 6 | Rest in Walk | |
| 7 | Red Rest | |
| 8 | Dbl Entry | ___4___8 |
| 9 | Max Recall | |
| A | Soft Recall | ~~2~~ ~~6~~ |
| B | Max 2 | |
| C | Cond Serv | |
| D | Ped Lock | 12345678 |
| E | Yellow Start | _2___6__ |
| F | 1st Phases | ___4___8 |

Phase Functions <F Page>
F + F + Row

** NOTE: Reassign det. #11 from slot J3U to J2U.*

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 0.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 12 | C + 0 + 0 |
| Zone Number | 12 | C + 0 + 1 |
| Area Number | 0 | C + 0 + 2 |
| Area Address | 201 | C + 0 + 3 |
| QuicNet Channel | DIGI62: | (QuicNet) |

Communication Addresses

| C + F + O | F | Row |
|---|---|---|
| Free Lag | _2_4_6_8 | 0 |

Lag Phases <C Page>

Overlap Timing

| | Row | 9 Green Clear | C Yellow Change | D Red Clear | 0 Load-Switch # |
|---|---|---|---|---|---|
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page> F + COLOR +

<D Page> D + 0 + OVERLAP

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By: JD/AM
Approved By: MM
Drawing Number: 23925-D
Timing Implemented On:

| Row | 1 Delay | 3 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | 10.0 | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 1I1 | 14 |
| | 2I2U | 1 |
| | 2I2L | 5 |
| | 2I3U | 21 |
| | 2I3L | 25 |
| | 2I4 | 9 |
| | 3I5 | 16 |
| | 4I6U | 3 |
| | 4I6L | 7 |
| | 4I7U | 23 |
| | 4I7L | 27 |
| | 4I8 | 11 |
| | 1I9U | 18 |
| | 3I9L | 20 |
| --- | --- | --- |
| --- | --- | --- |

| Row | 2 Delay | 4 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 5J1 | 13 |
| | 6J2U* | 2 |
| | 6J2L | 6 |
| | 6J3U* | 22 |
| | 6J3L | 26 |
| | 6J4 | 10 |
| | 7J5 | 15 |
| | 8J6U | 4 |
| | 8J6L | 8 |
| | 8J7U | 24 |
| | 8J7L | 28 |
| | 8J8 | 12 |
| | 5J9U | 17 |
| | 7J9L | 19 |
| --- | --- | --- |
| --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

** NOTE: Reassign det. #11 from slot J3U to J2U.*

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 – – – – | 1234____ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | – – – – 21 22 23 24 | ____5678 |
| E | – – – – – – – – | 1234____ |
| F | – 25 26 27 28 – – – | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: EAST @ MIDWAY

223 Program

| Row | Plan Name --> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Cycle Length | | | | | 70 | 75 | | | |
| 1 | Phase 1 - ForceOff | | | | | 5 15 | 35 | | | |
| 2 | Phase 2 - ForceOff | | | | | 0 | 0 | | | |
| 3 | Phase 3 - ForceOff | | | | | | | | | |
| 4 | Phase 4 - ForceOff | | | | | 36 | 20 | | | |
| 5 | Phase 5 - ForceOff | | | | | 51 | 35 | | | |
| 6 | Phase 6 - ForceOff | | | | | 0 | 0 | | | |
| 7 | Phase 7 - ForceOff | | | | | | | | | |
| 8 | Phase 8 - ForceOff | | | | | 36 | 20 | | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | | | | | 08 ~~13~~ | 00 ~~8~~ | | | |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | | | | | 10 | 10 | | | |
| E | Hold Release | | | | | 255 | 255 | | | |
| F | Ped Shift | | | | | 5 | 6 | | | |

Coordination <C Page>

C + Plan + ROW

Coordination Timing By: AM

Implemented On: 3/14/93

FOR OBSERVATION ONLY

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + E |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 11 : 00 | 5 | A | _23456_ |
| 1 | 13 : 00 | 6 | A | _23456_ |
| 2 | 18 : 00 | E | A | 1234567 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination

<9 Key with C+0+9=1>

| | E | Row | | F |
|---|---|---|---|---|
| | | 0 | Free Lag | _2_4_6_8 |
| Plan 1 | | 1 | Plan 1 - Lag | |
| Plan 2 | | 2 | Plan 2 - Lag | |
| Plan 3 | | 3 | Plan 3 - Lag | |
| Plan 4 | | 4 | Plan 4 - Lag | |
| Plan 5 | _2___6__ | 5 | Plan 5 - Lag | _2_4_6_8 |
| Plan 6 | _2___6__ | 6 | Plan 6 - Lag | 2 4 6 8 |
| Plan 7 | | 7 | Plan 7 - Lag | |
| Plan 8 | | 8 | Plan 8 - Lag | |
| Plan 9 | | 9 | Plan 9 - Lag | |
| Coord Ped* | | A | Coord Max * | |
| NEMA Hold | | B | Coord Lag * | |
| | | C | | |
| | | D | | |
| | | E | | |
| | | F | | |

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

| Transition Type | 0 |
|---|---|

TBC Transition

C + D + D

Plan Select

1 thru 9 = Coordination Plan 1 thru 9

14 or E = Free

15 or F = Flash

Transition Type

0 = Shortway

Non-zero = Lengthen

# INTERSECTION: EAST @ MIDWAY

223 Program

| Row | Time | Functio | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Overide
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | _2_____ |
| 6 | Ped 6P | _____6__ |
| 7 | Ped 4P | ___4____ |
| 8 | Ped 8P | |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | |

Configuration

<E Page>

E + F + ROW

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | 1___5___ |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | _2__5___ |
| B | EV-B Phases | |
| C | EV-C Phases | 1____6__ |
| D | EV-D Phases | _____8 |
| E | Extra 1 Config. Bits | 1_345___ |
| F | IC Select (Interconnect) | _2_____ |

Configuration

For access, set F + 0 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 | D+B+0 |
|---|---|---|

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

# INTERSECTION: MIDWAY @ ROSECRANS

223 Program

Group Assignment:
Field Master Assignment:

N/S Street Name: ROSECRANS
E/W Street Name: MIDWAY

Last Database Change:
System Ref. Number:

N

| Column # ---> | | ROSECRANS | | MIDWAY | | ROSECRANS | | MIDWAY | |
|---|---|---|---|---|---|---|---|---|---|
| | | Phase | | | | | | | |
| Row | Phase # ---> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0 | Ped Walk | | 7 ~~5~~ | | 7 ~~5~~ | | 7 ~~5~~ | | 7 ~~5~~ |
| 1 | Ped FDW | | 19 | | 24 | | 17 | | 25 |
| 2 | Min Green | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 |
| 3 | Type 3 Limit | | | | | | | | |
| 4 | Add/Veh | | | | | | | | |
| 5 | Veh Extn | 2.0 | 3.5 | 2.0 | 2.0 | 2.0 | 3.7 | 2.0 | 2.0 |
| 6 | Max Gap | 2.0 | 3.5 | 2.0 | 2.0 | 2.0 | 3.7 | 2.0 | 2.0 |
| 7 | Min Gap | 2.0 | 0.2 | 2.0 | 2.0 | 2.0 | 0.2 | 2.0 | 2.0 |
| 8 | Max Limit | 30 | 60 ~~40~~ | 30 ~~20~~ | 40 ~~30~~ | 30 | 60 ~~40~~ | 30 ~~20~~ | 40 ~~30~~ |
| 9 | Max Limit 2 | | | | | | | | |
| A | Bus Adv | | | | | | | | |
| B | Call to Phs | | | | | | | | |
| C | Reduce By | | 0.1 | | | | 0.1 | | |
| D | Every | | 0.9 | | | | 0.9 | | |
| E | Yellow | 3.4 | 4.1 | 3.4 | 3.9 | 3.4 | 4.0 | 3.4 | 3.9 |
| F | Red Clear | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| | Grade | | 0.0% | | 0.0% | | 0.0% | | 0.0% |

JDS 12/9/09

DS 12/9/09

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| | E |
|---|---|
| RR-1 Delay | |
| RR-1 Clear | |
| EV-A Delay | 0 |
| EV-A Clear | 0 |
| EV-B Delay | 0 |
| EV-B Clear | 0 |
| EV-C Delay | 0 |
| EV-C Clear | 0 |
| EV-D Delay | 0 |
| EV-D Clear | 0 |
| RR-2 Delay | |
| RR-2 Clear | |
| View EV Delay | --- |
| View EV Clear | --- |
| View RR Delay | --- |
| View RR Clear | --- |

Preempt Timing
F + E + Row

| | F | Row |
|---|---|---|
| Permit | 12345678 | 0 |
| Red Lock | | 1 |
| Yellow Lock | | 2 |
| Min Recall | | 3 |
| Ped Recall | | 4 |
| Peds (View) | _2_4_6_8 | 5 |
| Rest In Walk | | 6 |
| Red Rest | | 7 |
| Dbl Entry | | 8 |
| Max Recall | | 9 |
| Soft Recall | _2___6__ | A |
| Max 2 | | B |
| Cond Serv | | C |
| Ped Lock | 12345678 | D |
| Yellow Start | _2___6__ | E |
| 1st Phases | ___4___8 | F |

Phase Functions <F Page>
F + F + Row

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 0.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 12 | C + 0 + 0 |
| Zone Number | 12 | C + 0 + 1 |
| Area Number | 1 | C + 0 + 2 |
| Area Address | 89 | C + 0 + 3 |
| QuicNet Channel | DIGI72: | (QuicNet) |

Communication Addresses

Overlap Timing

| | Row | 9 Green Clear | C Yellow Change | D Red Clear | 0 Load-Switch # |
|---|---|---|---|---|---|
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| C + F + O | F | Row |
|---|---|---|
| Free Lag | 1__4_67_ | 0 |

Lag Phases <C Page>

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By: EFF/WXH
Approved By: EFF
Drawing Number: 31368-8-D
Timing Implemented On: 2/10/03

| Row | 1 Delay | 3 Carry-over | Detector Name | 332 Input File | Detector Number |
|---|---|---|---|---|---|
| 0 | | | | 1I1 | 14 |
| 1 | | 1.8 | | 2I2U | 1 |
| 2 | | | | 2I2L | 5 |
| 3 | | | | 2I3U | 21 |
| 4 | | | | 2I3L | 25 |
| 5 | | | | 2I4 | 9 |
| 6 | | | | 3I5 | 16 |
| 7 | | | | 4I6U | 3 |
| 8 | | | | 4I6L | 7 |
| 9 | | | | 4I7U | 23 |
| A | 10.0 | | | 4I7L | 27 |
| B | | | | 4I8 | 11 |
| C | | | | 1I9U | 18 |
| D | | | | 3I9L | 20 |
| E | --- | --- | --- | --- | --- |
| F | --- | --- | --- | --- | --- |

| Row | 2 Delay | 4 Carry-over | Detector Name | 332 Input File | Detector Number |
|---|---|---|---|---|---|
| 0 | | | | 5J1 | 13 |
| 1 | | 1.8 | | 6J2U | 2 |
| 2 | | | | 6J2L | 6 |
| 3 | | | | 6J3U | 22 |
| 4 | | | | 6J3L | 26 |
| 5 | | | | 6J4 | 10 |
| 6 | | | | 7J5 | 15 |
| 7 | | | | 8J6U | 4 |
| 8 | | | | 8J6L | 8 |
| 9 | | | | 8J7U | 24 |
| A | | | | 8J7L | 28 |
| B | | | | 8J8 | 12 |
| C | | | | 5J9U | 17 |
| D | | | | 7J9L | 19 |
| E | --- | --- | --- | --- | --- |
| F | --- | --- | --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 -- -- -- -- | 1234__ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | -- -- -- -- 21 22 23 24 | __5678 |
| E | -- -- -- -- -- -- -- -- | 1234__ |
| F | -- 25 26 27 28 -- -- -- | _2345__ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: MIDWAY DR @ ROSECRANS S

223 Progr

Coordination Timing By: M2S
Implemented On:

| Row | Column # ---> | Plan 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Plan Name ---> | | MID | | WKND | | AM | PM | PM (PEAK2) | PM (PEAK1) |
| 0 | Cycle Length | | 140 | | 140 | | 130 | 160 | 160 | 160 |
| 1 | Phase 1 - ForceOff | | 29 | | 29 | | 26 | 35 | 30 | 25 |
| 2 | Phase 2 - ForceOff | | 0 | | 0 | | 0 | 0 | 0 | 0 |
| 3 | Phase 3 - ForceOff | | 85 | | 52 | | 41 | 100 | 95 | 86 |
| 4 | Phase 4 - ForceOff | | 62 | | 85 | | 81 | 77 | 72 | 55 |
| 5 | Phase 5 - ForceOff | | 115 | | 115 | | 107 | 128 | 133 | 135 |
| 6 | Phase 6 - ForceOff | | 29 | | 29 | | 26 | 35 | 30 | 25 |
| 7 | Phase 7 - ForceOff | | 54 | | 85 | | 81 | 65 | 60 | 50 |
| 8 | Phase 8 - ForceOff | | 85 | | 59 | | 60 | 100 | 95 | 86 |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | | 118 | | 118 | | 111 | 44 | 28 | 28 |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | | 10 | | 10 | | 13 | 16 | 16 | 16 |
| E | Hold Release | | 255 | | 255 | | 255 | 255 | 255 | 155 |
| F | Ped Shift | | 4 | | 4 | | 0 | 3 | 2 | 3 |

Coordination <C Page>
C + Plan + ROW

**FOR OBSERVATION ONLY**

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + E |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 06 : 30 | 6 | A | _23456_ |
| 1 | 11 : 00 | 2 | A | _23456_ |
| 2 | 13 : 00 | 7 | A | _23456_ |
| 3 | 14 : 45 | 9 | A | _23456_ |
| 4 | 17 : 30 | 8 | A | _23456_ |
| 5 | 19 : 30 | E | A | _23456_ |
| 6 | 10 : 00 | 4 | A | 1____7 |
| 7 | 18 : 00 | E | A | 1____7 |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination
<9 Key with C+0+9=1>

| | E | Row | | F |
|---|---|---|---|---|
| | | 0 | Free Lag | |
| Plan 1 | | 1 | Plan 1 - Lag | |
| Plan 2 | _2_____ | 2 | Plan 2 - Lag | 1_3__6_8 |
| Plan 3 | | 3 | Plan 3 - Lag | |
| Plan 4 | _2_____ | 4 | Plan 4 - Lag | 1__4_67_ |
| Plan 5 | | 5 | Plan 5 - Lag | |
| Plan 6 | _2_____ | 6 | Plan 6 - Lag | 1__4_67_ |
| Plan 7 | _2_____ | 7 | Plan 7 - Lag | 1_3__6_8 |
| Plan 8 | _2_____ | 8 | Plan 8 - Lag | 1_3__6_8 |
| Plan 9 | _2_____ | 9 | Plan 9 - Lag | 1_3__6_8 |
| Coord Ped* | | A | Coord Max * | |
| NEMA Hold | | B | Coord Lag * | |
| | | C | | |
| | | D | | |
| | | E | | |
| | | F | | |

Sync Phases
C + E + FUNCTION #

Lag Phases <C Page>
C + F + FUNCTION #

| Transition Type | 0 |
|---|---|

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | 2 |
| 6 | Ped 6P | 6 |
| 7 | Ped 4P | 4 |
| 8 | Ped 8P | 8 |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | |

Configuration

E + F + ROW

<E Page>

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | 2 5 |
| B | EV-B Phases | 4 7 |
| C | EV-C Phases | 1 6 |
| D | EV-D Phases | 3 8 |
| E | Extra 1 Config. Bits | 1 345 |
| F | IC Select (Interconnect) | 2 |

For access, set F + 9 + E = 1

Configuration

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 | D+B+0 |
|---|---|---|

Dial-Up Telephone Communications

(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

# INTERSECTION: BARNETT AVE @ MIDWAY AVE

223 Program

Group Assignment:
Field Master Assignment:

N/S Street Name: MIDWAY
E/W Street Name: BARNETT

| Row | Column # ---> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| | | MIDWAY | BARNETT | | | | | | BARNETT |
| | Phase # ---> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0 | Ped Walk | | 7 | 7 | | | | 7 | |
| 1 | Ped FDW | | 4 | 17 | | | | 5 | |
| 2 | Min Green | 10 | 10 | 4 | | | | 4 | 10 |
| 3 | Type 3 Limit | | | | | | | | |
| 4 | Add/Veh | | | | | | | | |
| 5 | Veh Extn | 2.5 | 2.9 | | | | | | 3.0 |
| 6 | Max Gap | 2.5 | 2.9 | | | | | | 3.0 |
| 7 | Min Gap | 0.2 | 0.2 | | | | | | 0.2 |
| 8 | Max Limit | 60 | 60 | | | | | | 60 |
| 9 | Max Limit 2 | | | | | | | | |
| A | Bus Adv | | | | | | | | |
| B | Call to Phs | | | | | | | | |
| C | Reduce By | 0.1 | 0.1 | | | | | | 0.1 |
| D | Every | 1.3 | 1.1 | | | | | | 1.1 |
| E | Yellow | 4.2 | 4.4 | 3.0 | | | | 3.0 | 4.4 |
| F | Red Clear | 1.0 | 1.0 | | | | | | 1.0 |

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| | E | | F | Row |
|---|---|---|---|---|
| RR-1 Delay | | Permit | 123___78 | 0 |
| RR-1 Clear | | Red Lock | | 1 |
| EV-A Delay | 0 | Yellow Lock | | 2 |
| EV-A Clear | 0 | Min Recall | _2____8 | 3 |
| EV-B Delay | | Ped Recall | | 4 |
| EV-B Clear | | Peds (View) | _23___7_ | 5 |
| EV-C Delay | 0 | Rest in Walk | | 6 |
| EV-C Clear | 0 | Red Rest | | 7 |
| EV-D Delay | | Dbl Entry | | 8 |
| EV-D Clear | | Max Recall | | 9 |
| RR-2 Delay | | Soft Recall | | A |
| RR-2 Clear | | Max 2 | | B |
| View EV Delay | --- | Cond Serv | | C |
| View EV Clear | --- | Ped Lock | 12345678 | D |
| View RR Delay | --- | Yellow Start | 1_____ | E |
| View RR Clear | --- | 1st Phases | _2____8 | F |
| F + E + Row | | F + F + Row | | |

NOTE: SPLIT RING OPERATION - PH 1 ,2 & 3 ARE INDEPENDENT OF PH 7 & 8

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 0.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 14 | C + 0 + 0 |
| Zone Number | 14 | C + 0 + 1 |
| Area Number | 0 | C + 0 + 2 |
| Area Address | 203 | C + 0 + 3 |
| QuicNet Channel | COM 66 | (QuicNet) |

Communication Addresses

| C + F + O | F | Row |
|---|---|---|
| Free Lag | _2____8 | 0 |
| | Lag Phases | <C Page> |

Overlap Timing

| | Row | 9 Green Clear | C Yellow Change | D Red Clear | 0 Load-Switch # |
|---|---|---|---|---|---|
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

| | | |
|---|---|---|
| Manual Plan | 14 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 +8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By: M2S
Approved By: [illegible]
Drawing Number:
Timing Implemented On: 02/23/11

# INTERSECTION: BARNETT AVE @ MIDWAY AVE

223 Program

| Row | 1 Delay | 3 Carry-over |
|---|---|---|
| 0 | | 1.8 |
| 1 | | 1.8 |
| 2 | | 1.8 |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 1I1 | 14 |
| WB | 2I2U | 1 |
| EB | 2I2L | 5 |
| | 2I3U | 21 |
| | 2I3L | 25 |
| | 2I4 | 9 |
| | 3I5 | 16 |
| | 4I6U | 3 |
| | 4I6L | 7 |
| | 4I7U | 23 |
| | 4I7L | 27 |
| | 4I8 | 11 |
| | 1I9U | 18 |
| | 3I9L | 20 |
| --- | --- | --- |
| --- | --- | --- |

| Row | 2 Delay | 4 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | 1.8 |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 5J1 | 13 |
| | 6J2U | 2 |
| | 6J2L | 6 |
| | 6J3U | 22 |
| | 6J3L | 26 |
| | 6J4 | 10 |
| | 7J5 | 15 |
| | 8J6U | 4 |
| | 8J6L | 8 |
| | 8J7U | 24 |
| | 8J7L | 28 |
| | 8J8 | 12 |
| | 5J9U | 17 |
| | 7J9L | 19 |
| --- | --- | --- |
| --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 -- -- -- -- | 1234____ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | -- -- -- -- 21 22 23 24 | ____5678 |
| E | -- -- -- -- -- -- -- -- | 1234____ |
| F | -- 25 26 27 28 -- -- -- | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | 2 |
| 6 | Ped 6P | |
| 7 | Ped 4P | 3 |
| 8 | Ped 8P | 7 8 |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | |

Configuration

E + F + ROW

<E Page>

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | 1 |
| B | EV-B Phases | |
| C | EV-C Phases | 2 8 |
| D | EV-D Phases | |
| E | Extra 1 Config. Bits | 1 345 8 |
| F | IC Select (Interconnect) | 2 |

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 = Bus Advance

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 |
|---|---|

D+B+0

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

# INTERSECTION: HANCOCK @ SPORTS ARENA

2: Program

Group Assignment: 4109
Field Master Assignment: NONE

N/S Street Name: HANCOCK
E/W Street Name: SPORTS ARENA

Last Database Change: 7/7/03 16:58
System Rec Number: 605

N

| Column # ---> | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| | | SPORTS ARENA BI | | | HANCOCK St | | SPORTS ARENA BI | | |
| Row | Phase # ---> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0 | Ped Walk | | | | 8 | | 8 | | |
| 1 | Ped FDW | | | | 32 | | 22 | | |
| 2 | Min Green | 4 | 10 | | 4 | 4 | 10 | | |
| 3 | Type 3 Limit | | | | | | | | |
| 4 | Add/Veh | | | | | | 1.6 | | |
| 5 | Veh Extn | 2.0 | 3.2 | | 2.0 | 2.0 | 5.0 | | |
| 6 | Max Gap | 2.0 | 3.2 | | 2.0 | 2.0 | 5.0 | | |
| 7 | Min Gap | 2.0 | 0.2 | | 2.0 | 2.0 | 2.0 | | |
| 8 | Max Limit | 20 | 60 | | 30 | 20 | 80 | | |
| 9 | Max Limit 2 | | | | | | | | |
| A | Bus Adv | | | | | | | | |
| B | Call to Phs | | | | | | | | |
| C | Reduce By | | 0.1 | | | | 0.1 | | |
| D | Every | | 1.0 | | | | 0.8 | | |
| E | Yellow | 3.4 | 3.9 | | 3.9 | 3.4 | 3.9 | | |
| F | Red Clear | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | |
| | Grade | | 0% | | 0% | | 0% | | |

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| | E |
|---|---|
| RR-1 Delay | |
| RR-1 Clear | |
| EV-A Delay | 0 |
| EV-A Clear | 0 |
| EV-B Delay | 0 |
| EV-B Clear | 0 |
| EV-C Delay | 0 |
| EV-C Clear | 0 |
| EV-D Delay | |
| EV-D Clear | |
| RR-2 Delay | |
| RR-2 Clear | |
| View EV Delay | --- |
| View EV Clear | --- |
| View RR Delay | --- |
| View RR Clear | --- |

Preempt Timing
F + E + Row

| Row | | F |
|---|---|---|
| 0 | Permit | 12_456__ |
| 1 | Red Lock | |
| 2 | Yellow Lock | |
| 3 | Min Recall | _2___6__ |
| 4 | Ped Recall | |
| 5 | Peds (View) | ___4_6__ |
| 6 | Rest In Walk | |
| 7 | Red Rest | |
| 8 | Dbl Entry | |
| 9 | Max Recall | |
| A | Soft Recall | |
| B | Max 2 | |
| C | Cond Serv | |
| D | Ped Lock | 12345678 |
| E | Yellow Start | _2___6__ |
| F | 1st Phases | ___4____ |

Phase Functions <F Page>
F + F + Row

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 24.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 4 | C + 0 + 0 |
| Zone Number | 4 | C + 0 + 1 |
| Area Number | 0 | C + 0 + 2 |
| Area Address | 194 | C + 0 + 3 |
| QuicNet Channel | DIGI62: | (QuicNet) |

Communication Addresses

| C + F + O | F | Row |
|---|---|---|
| Free Lag | _2_4_6__ | 0 |

Lag Phases <C Page>

Overlap Timing

| | Row | 9 Green Clear | C Yellow Change | D Red Clear | 0 Load-Switch # |
|---|---|---|---|---|---|
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page> <D Page>
F + COLOR + D + 0 + OVERLAP

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By: JD/AM
Approved By: MM
Drawing Number: 28337-17-D
Timing Implemented On: 8/15/03

| Row | 1 Delay | 3 Carry-over | Detector Name | 332 Input File | Detector Number |
|---|---|---|---|---|---|
| 0 | | | | 1I1 | 14 |
| 1 | | 1.8 | | 2I2U | 1 |
| 2 | | | | 2I2L | 5 |
| 3 | | | | 2I3U | 21 |
| 4 | | | | 2I3L | 25 |
| 5 | | | | 2I4 | 9 |
| 6 | | | | 3I5 | 16 |
| 7 | 5.0 | | | 4I6U | 3 |
| 8 | | | | 4I6L | 7 |
| 9 | | | | 4I7U | 23 |
| A | 5.0 | | | 4I7L | 27 |
| B | | | | 4I8 | 11 |
| C | | | | 1I9U | 18 |
| D | | | | 3I9L | 20 |
| E | --- | --- | --- | --- | --- |
| F | --- | --- | --- | --- | --- |

| Row | 2 Delay | 4 Carry-over | Detector Name | 332 Input File | Detector Number |
|---|---|---|---|---|---|
| 0 | | | | 5J1 | 13 |
| 1 | | | | 6J2U | 2 |
| 2 | | | | 6J2L | 6 |
| 3 | | | | 6J3U | 22 |
| 4 | | | | 6J3L | 26 |
| 5 | | | | 6J4 | 10 |
| 6 | | | | 7J5 | 15 |
| 7 | | | | 8J6U | 4 |
| 8 | | | | 8J6L | 8 |
| 9 | | | | 8J7U | 24 |
| A | | | | 8J7L | 28 |
| B | | | | 8J8 | 12 |
| C | | | | 5J9U | 17 |
| D | | | | 7J9L | 19 |
| E | --- | --- | --- | --- | --- |
| F | --- | --- | --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 – – – – | 1234____ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | – – – – 21 22 23 24 | ____5678 |
| E | – – – – – – – – | 1234____ |
| F | – 25 26 27 28 – – – | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: HANCOCK @ SPORTS ARENA

223 Program

Coordination Timing By: AM
Implemented On: 3/18/03

| Row | Column # ---> | Plan 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Plan Name ---> | | | | | | | | | |
| 0 | Cycle Length | | | 105 | | | | | | |
| 1 | Phase 1 - ForceOff | | | 50 | | | | | | |
| 2 | Phase 2 - ForceOff | | | 0 | | | | | | |
| 3 | Phase 3 - ForceOff | | | | | | | | | |
| 4 | Phase 4 - ForceOff | | | 35 | | | | | | |
| 5 | Phase 5 - ForceOff | | | 55 | | | | | | |
| 6 | Phase 6 - ForceOff | | | 0 | | | | | | |
| 7 | Phase 7 - ForceOff | | | | | | | | | |
| 8 | Phase 8 - ForceOff | | | | | | | | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | | | 87 | | | | | | |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | | | 10 | | | | | | |
| E | Hold Release | | | 255 | | | | | | |
| F | Ped Shift | | | 0 | | | | | | |

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + E |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 11 : 00 | 3 | A | _23456_ |
| 1 | 17 : 30 | E | A | 1234567 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination

<9 Key with C+0+9=1>

| | E | Row | | F |
|---|---|---|---|---|
| | | 0 | Free Lag | _2_4_6__ |
| Plan 1 | _2__6__ | 1 | Plan 1 - Lag | _2_4_6__ |
| Plan 2 | | 2 | Plan 2 - Lag | |
| Plan 3 | _2__6__ | 3 | Plan 3 - Lag | _2_4_6__ |
| Plan 4 | | 4 | Plan 4 - Lag | |
| Plan 5 | | 5 | Plan 5 - Lag | |
| Plan 6 | | 6 | Plan 6 - Lag | |
| Plan 7 | | 7 | Plan 7 - Lag | |
| Plan 8 | | 8 | Plan 8 - Lag | |
| Plan 9 | | 9 | Plan 9 - Lag | |
| Coord Ped* | | A | Coord Max * | |
| NEMA Hold | | B | Coord Lag * | |
| | | C | | |
| | | D | | |
| | | E | | |
| | | F | | |

Sync Phases — C + E + FUNCTION #

Lag Phases <C Page> — C + F + FUNCTION #

| | |
|---|---|
| Transition Type | 0 |

TBC Transition
C + D + 0

Transition Type
0 = Shortway
Non-zero = Lengthen

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

**TOD Function** <D Page>

7 + ROW D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Leg Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | |
| 6 | Ped 6P | 6 |
| 7 | Ped 4P | 4 |
| 8 | Ped 8P | |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | |

**Configuration** <E Page>

E + F + ROW

**Day of Week**

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | 2 5 |
| B | EV-B Phases | 4 |
| C | EV-C Phases | 1 6 |
| D | EV-D Phases | |
| E | Extra 1 Config. Bits | 1 345 |
| F | IC Select (Interconnect) | 2 |

**Configuration**

For access, set F + 9 + E = 1 E + E + ROW

Extra 1 Flags
1 = TIC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

**Time and Date**

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 | D+B+0 |
|---|---|---|

**Dial-Up Telephone Communications**

(If set to a non-zero value, parity will be disabled)

**Program Information**

C + C + 0 = program
C + C + F = version

**Remote Download**

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

# INTERSECTION: KEMPER @ SPORTS ARENA

22 rogram

Group Assignment: 4109
Field Master Assignment: NONE

N/S Street Name: KEMPER
E/W Street Name: SPORTS ARENA

Last Database Change: 7/8/03 14:05
System Ref. Number: 606

N

| Row | Column # ---> / Phase # ---> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| | | SPORTS ARENA Bl | | | | | SPORTS ARENA Bl | KEMPER St | DRIVEWAY |
| | | Phase | | | | | | | |
| 0 | Ped Walk | | 5 | | | | 5 | 5 | |
| 1 | Ped FDW | | 18 | | | | 18 | 25 | |
| 2 | Min Green | 4 | 10 | | | 4 | 10 | 7 | 6 |
| 3 | Type 3 Limit | | | | | | | | |
| 4 | Add/Veh | | | | | | | | |
| 5 | Veh Extn | 2.0 | 3.2 | | | 2.0 | 3.9 | 3.0 | 2.0 |
| 6 | Max Gap | 2.0 | 3.2 | | | 2.0 | 3.9 | 3.0 | 2.0 |
| 7 | Min Gap | 2.0 | 0.2 | | | 2.0 | 0.2 | 3.0 | 2.0 |
| 8 | Max Limit | 35 | 60 | | | 30 | 60 | 30 | 80 |
| 9 | Max Limit 2 | | | | | | | | |
| A | Bus Adv | | | | | | | | |
| B | Call to Phs | | | | | | | | |
| C | Reduce By | | 0.1 | | | | 0.1 | | |
| D | Every | | 1.0 | | | | 0.8 | | |
| E | Yellow | 3.4 | 3.9 | | | 3.4 | 3.9 | 3.9 | 3.9 |
| F | Red Clear | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.0 | 1.0 |
| | Grade | | 0% | | | | -1% | 0% | -1% |

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| | E |
|---|---|
| RR-1 Delay | |
| RR-1 Clear | |
| EV-A Delay | 0 |
| EV-A Clear | 0 |
| EV-B Delay | 0 |
| EV-B Clear | 0 |
| EV-C Delay | 0 |
| EV-C Clear | 0 |
| EV-D Delay | |
| EV-D Clear | |
| RR-2 Delay | |
| RR-2 Clear | |
| View EV Delay | --- |
| View EV Clear | --- |
| View RR Delay | --- |
| View RR Clear | --- |

Preempt Timing
F + E + Row

| Row | | F |
|---|---|---|
| 0 | Permit | 12__5678 |
| 1 | Red Lock | |
| 2 | Yellow Lock | |
| 3 | Min Recall | |
| 4 | Ped Recall | |
| 5 | Peds (View) | _2___67_ |
| 6 | Rest In Walk | |
| 7 | Red Rest | |
| 8 | Dbl Entry | |
| 9 | Max Recall | |
| A | Soft Recall | _2___6__ |
| B | Max 2 | |
| C | Cond Serv | |
| D | Ped Lock | 12345678 |
| E | Yellow Start | _2___6__ |
| F | 1st Phases | _____8 |

Phase Functions <F Page>
F + F + Row

| | | |
|---|---|---|
| Max Initial | 22 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 0.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 5 | C + 0 + 0 |
| Zone Number | 5 | C + 0 + 1 |
| Area Number | 0 | C + 0 + 2 |
| Area Address | 195 | C + 0 + 3 |
| QuicNet Channel | DIG162: | (QuicNet) |

Communication Addresses

| C + F + O | F | Row |
|---|---|---|
| Free Lag | _2___67_ | 0 |

Lag Phases <C Page>

Overlap Timing

| | Row | 9 Green Clear | G Yellow Change | D Red Clear | 0 Load-Switch # |
|---|---|---|---|---|---|
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By: JD/AM
Approved By: mm
Drawing Number: 14210-1-D
Timing Implemented On:

# INTERSECTION: KEMPER @ SPORTS ARENA

223 Program

| Row | 1 Delay | 3 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 1I1 | 14 |
| | 2I2U | 1 |
| | 2I2L | 5 |
| | 2I3U | 21 |
| | 2I3L | 25 |
| | 2I4 | 9 |
| | 3I5 | 16 |
| | 4I6U | 3 |
| | 4I6L | 7 |
| | 4I7U | 23 |
| | 4I7L | 27 |
| | 4I8 | 11 |
| | 1I9U | 18 |
| | 3I9L | 20 |
| --- | --- | --- |
| --- | --- | --- |

| Row | 2 Delay | 4 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | 1.8 |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 6J1 | 13 |
| | 6J2U | 2 |
| | 6J2L | 6 |
| | 6J3U | 22 |
| | 6J3L | 26 |
| | 6J4 | 10 |
| | 7J5 | 15 |
| | 8J6U | 4 |
| | 8J6L | 8 |
| | 8J7U | 24 |
| | 8J7L | 28 |
| | 8J8 | 12 |
| | 5J9U | 17 |
| | 7J9L | 19 |
| --- | --- | --- |
| --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 – – – – | 1234____ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | – – – – 21 22 23 24 | ____5678 |
| E | – – – – – – – – | 1234____ |
| F | – 25 26 27 28 – – – | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: KEMPER @ SPORTS ARENA

223 Program

| Row | Column # ---> | Plan 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Plan Name ---> | | | | | | | | | |
| 0 | Cycle Length | | | 105 | | | | | | |
| 1 | Phase 1 - ForceOff | | | 59 | | | | | | |
| 2 | Phase 2 - ForceOff | | | 0 | | | | | | |
| 3 | Phase 3 - ForceOff | | | | | | | | | |
| 4 | Phase 4 - ForceOff | | | | | | | | | |
| 5 | Phase 5 - ForceOff | | | 59 | | | | | | |
| 6 | Phase 6 - ForceOff | | | 0 | | | | | | |
| 7 | Phase 7 - ForceOff | | | 29 | | | | | | |
| 8 | Phase 8 - ForceOff | | | 44 | | | | | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | | | 26 | | | | | | |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | | | 10 | | | | | | |
| E | Hold Release | | | 255 | | | | | | |
| F | Ped Shift | | | 0 | | | | | | |

Coordination <C Page>

C + Plan + ROW

Coordination Timing By: AM
Implemented On: 3/10/03

FOR OBSERVATION ONLY

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + C |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 11 : 00 | 3 | A | _23456_ |
| 1 | 17 : 30 | E | A | 1234567 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination

<9 Key with C+0+9=1>

| | E | Row | | F |
|---|---|---|---|---|
| | | 0 | Free Lag | _2___67_ |
| Plan 1 | _2___6__ | 1 | Plan 1 - Lag | _2___67_ |
| Plan 2 | | 2 | Plan 2 - Lag | |
| Plan 3 | _2___6__ | 3 | Plan 3 - Lag | _2___6_8 |
| Plan 4 | | 4 | Plan 4 - Lag | |
| Plan 5 | | 5 | Plan 5 - Lag | |
| Plan 6 | | 6 | Plan 6 - Lag | |
| Plan 7 | | 7 | Plan 7 - Lag | |
| Plan 8 | | 8 | Plan 8 - Lag | |
| Plan 9 | | 9 | Plan 9 - Lag | |
| Coord Ped* | | A | Coord Max * | |
| NEMA Hold | | B | Coord Lag * | |
| | | C | | |
| | | D | | |
| | | E | | |
| | | F | | |

Sync Phases <C Page>

C + E + FUNCTION #

Lag Phases

C + F + FUNCTION #

| Transition Type | 0 |
|---|---|

TBC Transition
C + D + D

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

Transition Type
0 = Shortway
Non-zero = Lengthen

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

**TOD Function** <D Page>

7 + ROW D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | _2_____ |
| 6 | Ped 6P | _____6__ |
| 7 | Ped 4P | |
| 8 | Ped 8P | _____7_ |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | |

**Configuration** <E Page>

E + F + ROW

**Day of Week**

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | _2__5___ |
| B | EV-B Phases | _____7_ |
| C | EV-C Phases | 1____6__ |
| D | EV-D Phases | |
| E | Extra 1 Config. Bits | 1_345___ |
| F | IC Select (Interconnect) | _2_____ |

**Configuration**

For access, set F + 9 + E = 1 E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

**Time and Date**

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 | D+B+0 |
|---|---|---|

**Dial-Up Telephone Communications**
(If set to a non-zero value, parity will be disabled)

**Program Information**
C + C + 0 = program
C + C + F = version

**Remote Download**
C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

# INTERSECTION: SPORTS ARENA @ TARGET DWY

22. 'rogram

13

Group Assignment: 4109
Field Master Assignment: NONE

N/S Street Name: TARGET DWY
E/W Street Name: SPORTS ARENA

Last Database Change: 8/19/03 14:13
System Ref. Number: 608

N

| Column # —> | SPORTS ARENA BI | | | | SPORTS ARENA BI | | | TARGET Dy |
|---|---|---|---|---|---|---|---|---|
| Phase # —> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Row | | | | | | | | |
| 0 Ped Walk | | 7 | | | | 7 | | 7 |
| 1 Ped FDW | | 11 | | | | 18 | | 21 |
| 2 Min Green | 4 | 10 | | | 4 | 10 | | 4 |
| 3 Type 3 Limit | | | | | | | | |
| 4 Add/Veh | | | | | | | | |
| 5 Veh Extn | 2.0 | 3.9 | | | 2.0 | 2.9 | | 2.0 |
| 6 Max Gap | 2.0 | 3.9 | | | 2.0 | 2.9 | | 2.0 |
| 7 Min Gap | 2.0 | 0.2 | | | 2.0 | 0.2 | | 2.0 |
| 8 Max Limit | 30 | 80 | | | 30 | 60 | | 40 |
| 9 Max Limit 2 | | | | | | | | |
| A Bus Adv | | | | | | | | |
| B Call to Phs | | | | | | | | |
| C Reduce By | | 0.1 | | | | 0.1 | | |
| D Every | | 0.8 | | | | 1.1 | | |
| E Yellow | 3.4 | 3.9 | | | 3.4 | 3.9 | | 3.9 |
| F Red Clear | 1.0 | 1.0 | | | 1.0 | 1.0 | | 1.0 |
| Grade | | -1% | | | | 0% | | -2% |

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| | E |
|---|---|
| RR-1 Delay | |
| RR-1 Clear | |
| EV-A Delay | |
| EV-A Clear | |
| EV-B Delay | 0 |
| EV-B Clear | 0 |
| EV-C Delay | |
| EV-C Clear | |
| EV-D Delay | 0 |
| EV-D Clear | 0 |
| RR-2 Delay | |
| RR-2 Clear | |
| View EV Delay | --- |
| View EV Clear | --- |
| View RR Delay | --- |
| View RR Clear | --- |

Preempt Timing
F + E + Row

| Row | | F |
|---|---|---|
| 0 | Permit | 12__56_8 |
| 1 | Red Lock | |
| 2 | Yellow Lock | |
| 3 | Min Recall | _2___6__ |
| 4 | Ped Recall | |
| 5 | Peds (View) | _2___6_8 |
| 6 | Rest In Walk | |
| 7 | Red Rest | |
| 8 | Dbl Entry | |
| 9 | Max Recall | |
| A | Soft Recall | |
| B | Max 2 | |
| C | Cond Serv | |
| D | Ped Lock | 12345678 |
| E | Yellow Start | _2___6__ |
| F | 1st Phases | _____8 |

Phase Functions <F Page>
F + F + Row

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 0.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 7 | C + 0 + 0 |
| Zone Number | 7 | C + 0 + 1 |
| Area Number | 0 | C + 0 + 2 |
| Area Address | 197 | C + 0 + 3 |
| QuicNet Channel | DIGI62: | (QuicNet) |

Communication Addresses

| C + F + O | | Row |
|---|---|---|
| Free Lag | _2___6_8 | 0 |

Lag Phases <C Page>

Overlap Timing

| | Row | 9 Green Clear | C Yellow Change | D Red Clear | 0 Load-Switch # |
|---|---|---|---|---|---|
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By:
Approved By:
Drawing Number:
Timing Implemented On:

1

| Row | 1 Delay | 3 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 1I1 | 14 |
| | 2I2U | 1 |
| | 2I2L | 5 |
| | 2I3U | 21 |
| | 2I3L | 25 |
| | 2I4 | 9 |
| | 3I5 | 16 |
| | 4I6U | 3 |
| | 4I6L | 7 |
| | 4I7U | 23 |
| | 4I7L | 27 |
| | 4I8 | 11 |
| | 1I9U | 18 |
| | 3I9L | 20 |
| --- | --- | --- |
| --- | --- | --- |

| Row | 2 Delay | 4 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | |
| 3 | | 1.8 |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | 5.0 | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 5J1 | 13 |
| | 6J2U | 2 |
| | 6J2L | 6 |
| | 6J3U | 22 |
| | 6J3L | 26 |
| | 6J4 | 10 |
| | 7J5 | 15 |
| | 8J6U | 4 |
| | 8J6L | 8 |
| | 8J7U | 24 |
| | 8J7L | 28 |
| | 8J8 | 12 |
| | 5J9U | 17 |
| | 7J9L | 19 |
| --- | --- | --- |
| --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 -- -- -- -- | 1234____ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | -- -- -- -- 21 22 23 24 | ____5678 |
| E | -- -- -- -- -- -- -- -- | 1234____ |
| F | -- 25 26 27 28 -- -- -- | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: SPORTS ARENA @ TARGET DWY

223 Program

| Row | Plan | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Cycle Length | | | 105 | | | | | | |
| 1 | Phase 1 - ForceOff | | | 68 | | | | | | |
| 2 | Phase 2 - ForceOff | | | 0 | | | | | | |
| 3 | Phase 3 - ForceOff | | | | | | | | | |
| 4 | Phase 4 - ForceOff | | | | | | | | | |
| 5 | Phase 5 - ForceOff | | | 15 | | | | | | |
| 6 | Phase 6 - ForceOff | | | 0 | | | | | | |
| 7 | Phase 7 - ForceOff | | | | | | | | | |
| 8 | Phase 8 - ForceOff | | | 38 | | | | | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | | | 25 | | | | | | |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | | | 10 | | | | | | |
| E | Hold Release | | | 255 | | | | | | |
| F | Ped Shift | | | 0 | | | | | | |

Coordination <C Page>

C + Plan + ROW

Coordination Timing By: AM
Implomonted On: 3/18/03

FOR OBSERVATION ONLY

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + E |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 11 : 00 | 3 | A | _23456_ |
| 1 | 17 : 30 | E | A | 1234567 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination

<9 Key with C+0+9=1>

| | E | Row | | F |
|---|---|---|---|---|
| | | 0 | Free Lag | _2__6_8 |
| Plan 1 | | 1 | Plan 1 - Lag | |
| Plan 2 | | 2 | Plan 2 - Lag | |
| Plan 3 | _2___6__ | 3 | Plan 3 - Lag | _2__5__8 |
| Plan 4 | | 4 | Plan 4 - Lag | |
| Plan 5 | | 5 | Plan 5 - Lag | |
| Plan 6 | | 6 | Plan 6 - Lag | |
| Plan 7 | | 7 | Plan 7 - Lag | |
| Plan 8 | | 8 | Plan 8 - Lag | |
| Plan 9 | | 9 | Plan 9 - Lag | |
| Coord Ped* | | A | Coord Max * | |
| NEMA Hold | | B | Coord Lag * | |
| | | C | | |
| | | D | | |
| | | E | | |
| | | F | | |

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

| Transition Type | 0 |
|---|---|

TBC Transition
C + D + D

Plan Select
1 thru 9 = Coordination
Plan 1 thru 9
14 or E = Free
15 or F = Flash

Transition Type
0 = Shortway
Non-zero = Lengthen

# INTERSECTION: SPORTS ARENA @ TARGET DWY

223 Program

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | _2_____ |
| 6 | Ped 6P | _____6__ |
| 7 | Ped 4P | |
| 8 | Ped 8P | _____8 |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | |

Configuration

<E Page>

E + F + ROW

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | |
| B | EV-B Phases | _2__5___ |
| C | EV-C Phases | |
| D | EV-D Phases | 1____6__ |
| E | Extra 1 Config. Bits | 1_345___ |
| F | IC Select (interconnect) | _2_____ |

Configuration

E + E + ROW

For access, set F + 9 + E = 1

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 | 0+8+0 |
|---|---|---|

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

# INTERSECTION: RALPHS DWY @ SPORTS ARENA

14

2. Program

Group Assignment: 4109
Field Master Assignment: NONE

N/S Street Name: RALPHS DWY
E/W Street Name: SPORTS ARENA

Last Database Change: 7/8/03 13:48
System Ref. Number: 607

N

| Column # ---> | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| | | SPORTS ARENA BI | | | | SPORTS ARENA BI | | | RALPHS Dy |
| Phase # ---> | | 1+8 | | | | | | | |
| Row | | | | | | | | | |
| 0 | Ped Walk | | 7 | | | | 7 | | 7 |
| 1 | Ped FDW | | 14 | | | | 16 | | 29 |
| 2 | Min Green | 4 | 10 | | | 4 | 10 | 6 | 4 |
| 3 | Type 3 Limit | | | | | | | | |
| 4 | Add/Veh | | | | | | | | |
| 5 | Veh Extn | 2.0 | 3.6 | | | 2.0 | 2.0 | 2.0 | 2.0 |
| 6 | Max Gap | 2.0 | 3.6 | | | 2.0 | 2.0 | 2.0 | 2.0 |
| 7 | Min Gap | 2.0 | 0.2 | | | 2.0 | 0.2 | 2.0 | 2.0 |
| 8 | Max Limit | 30 | 60 | | | 60 | 60 | 80 | 30 |
| 9 | Max Limit 2 | | | | | | | | |
| A | Bus Adv | | | | | | | | |
| B | Call to Phs | | | | | | | | |
| C | Reduce By | | 0.1 | | | | 0.1 | | |
| D | Every | | 0.9 | | | | 1.7 | | |
| E | Yellow | 3.4 | 3.9 | | | 3.4 | 3.9 | 3.9 | 3.9 |
| F | Red Clear | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.0 | 1.0 |
| | Grade | | -1% | | | | 0% | -2% | -1% |

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| Row | | E |
|---|---|---|
| | RR-1 Delay | |
| | RR-1 Clear | |
| | EV-A Delay | 0 |
| | EV-A Clear | 0 |
| | EV-B Delay | |
| | EV-B Clear | |
| | EV-C Delay | 0 |
| | EV-C Clear | 0 |
| | EV-D Delay | |
| | EV-D Clear | |
| | RR-2 Delay | |
| | RR-2 Clear | |
| | View EV Delay | --- |
| | View EV Clear | --- |
| | View RR Delay | --- |
| | View RR Clear | --- |

Preempt Timing
F + E + Row

| Row | | F |
|---|---|---|
| | Permit | 12__5678 |
| | Red Lock | |
| | Yellow Lock | |
| | Min Recall | |
| | Ped Recall | |
| | Peds (View) | _2___6_8 |
| | Rest in Walk | |
| | Red Rest | |
| | Dbl Entry | |
| | Max Recall | |
| | Soft Recall | _2___6__ |
| | Max 2 | |
| | Cond Serv | |
| | Ped Lock | 12345678 |
| | Yellow Start | _2___6__ |
| | 1st Phases | _____7_ |

Phase Functions <F Page>
F + F + Row

## Overlap Timing

| | | | 9 | C | D | 0 |
|---|---|---|---|---|---|---|
| | | Row | Green Clear | Yellow Change | Red Clear | Load-Switch # |
| Overlap A | | A | | | | |
| Overlap B | | B | | | | |
| Overlap C | | C | | | | |
| Overlap D | | D | | | | |

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 0.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 6 | C + 0 + 0 |
| Zone Number | 6 | C + 0 + 1 |
| Area Number | 0 | C + 0 + 2 |
| Area Address | 196 | C + 0 + 3 |
| QuicNet Channel | DIGI62: | (QuicNet) |

Communication Addresses

| C + F + O | | Row |
|---|---|---|
| Free Lag | _2___6_8 | 0 |

Lag Phases <C Page>

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By: JD/AM
Approved By: MM
Drawing Number: 14896-3-D
Timing Implemented On:

6

# ITERSECTION: RALPHS DWY @ SPORTS ARENA

223 Program

| Row | 1 Delay | 3 Carry-over | Detector Name | 332 Input File | Detector Number |
|---|---|---|---|---|---|
| 0 | | | | 1I1 | 14 |
| 1 | | 1.8 | | 2I2U | 1 |
| 2 | | | | 2I2L | 5 |
| 3 | | | | 2I3U | 21 |
| 4 | | | | 2I3L | 25 |
| 5 | | | | 2I4 | 9 |
| 6 | | | | 3I5 | 16 |
| 7 | | | | 4I6U | 3 |
| 8 | | | | 4I6L | 7 |
| 9 | | | | 4I7U | 23 |
| A | | | | 4I7L | 27 |
| B | | | | 4I8 | 11 |
| C | | | | 1I9U | 18 |
| D | | | | 3I9L | 20 |
| E | --- | --- | --- | --- | --- |
| F | --- | --- | --- | --- | --- |

| Row | 2 Delay | 4 Carry-over | Detector Name | 332 Input File | Detector Number |
|---|---|---|---|---|---|
| 0 | | | | 5J1 | 13 |
| 1 | | 1.8 | | 6J2U | 2 |
| 2 | | | | 6J2L | 6 |
| 3 | | | | 6J3U | 22 |
| 4 | | | | 6J3L | 26 |
| 5 | | | | 6J4 | 10 |
| 6 | | | | 7J5 | 15 |
| 7 | | | | 8J6U | 4 |
| 8 | | | | 8J6L | 8 |
| 9 | | | | 8J7U | 24 |
| A | | | | 8J7L | 28 |
| B | | | | 8J8 | 12 |
| C | | | | 5J9U | 17 |
| D | | | | 7J9L | 19 |
| E | --- | --- | --- | --- | --- |
| F | --- | --- | --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 – – – – | 1234____ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | – – – – 21 22 23 24 | ____5678 |
| E | – – – – – – – – | 1234____ |
| F | – 25 26 27 28 – – – | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: RALPHS DWY @ SPORTS ARENA

223 Program

Coordination Timing By: AM
Implemented On: 3/10/03

| Row | Column # ---> / Plan Name ---> | Plan 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Cycle Length | | | 105 | | | | | | |
| 1 | Phase 1 - ForceOff | | | 60 | | | | | | |
| 2 | Phase 2 - ForceOff | | | 0 | | | | | | |
| 3 | Phase 3 - ForceOff | | | | | | | | | |
| 4 | Phase 4 - ForceOff | | | | | | | | | |
| 5 | Phase 5 - ForceOff | | | 60 | | | | | | |
| 6 | Phase 6 - ForceOff | | | 0 | | | | | | |
| 7 | Phase 7 - ForceOff | | | 15 | | | | | | |
| 8 | Phase 8 - ForceOff | | | 45 | | | | | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | | | 25 | | | | | | |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | | | 10 | | | | | | |
| E | Hold Release | | | 255 | | | | | | |
| F | Ped Shift | | | 0 | | | | | | |

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + E |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 11 : 00 | 3 | A | _23456_ |
| 1 | 17 : 30 | E | A | 1234567 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination

<9 Key with C+0+9=1>

| | E | Row | | F |
|---|---|---|---|---|
| | | 0 | Free Lag | _2__6_8 |
| Plan 1 | _2__6__ | 1 | Plan 1 - Lag | _2__6_8 |
| Plan 2 | | 2 | Plan 2 - Lag | |
| Plan 3 | _2__6__ | 3 | Plan 3 - Lag | _2__6_8 |
| Plan 4 | | 4 | Plan 4 - Lag | |
| Plan 5 | | 5 | Plan 5 - Lag | |
| Plan 6 | | 6 | Plan 6 - Lag | |
| Plan 7 | | 7 | Plan 7 - Lag | |
| Plan 8 | | 8 | Plan 8 - Lag | |
| Plan 9 | | 9 | Plan 9 - Lag | |
| Coord Ped* | | A | Coord Max * | |
| NEMA Hold | | B | Coord Lag * | |
| | | C | | |
| | | D | | |
| | | E | | |
| | | F | | |

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

| Transition Type | 0 |
|---|---|

TBC Transition
C + D + D

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

Transition Type
0 = Shortway
Non-zero = Lengthen

# INTERSECTION: RALPHS DWY @ SPORTS ARENA

223 Program

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest in Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | 2 |
| 6 | Ped 6P | 6 |
| 7 | Ped 4P | |
| 8 | Ped 8P | 8 |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | 1 8 |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | 1 |

Configuration

<E Page>

E + F + ROW

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | 8 |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | 2 5 |
| B | EV-B Phases | |
| C | EV-C Phases | 1 6 |
| D | EV-D Phases | |
| E | Extra 1 Config. Bits | 1 345 |
| F | IC Select (Interconnect) | 2 |

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 | D+B+0 |
|---|---|---|

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

# INTERSECTION: ROSECRANS/CAM DEL RIO W @ ROSECRANS/SPORTS ARENA

123 Program

15

Group Assignment:
Field Master Assignment:

N/S Street Name: ROSECRANS/CAM DEL RIO W
E/W Street Name: ROSECRANS/SPORTS ARENA

Last Database Change:
System Ref. Number:

N

| Row | Column # ---> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| | Phase # ---> | | ROSECRANS | ROSECRANS | SPORTS ARENA | | CAM DEL RIO W | | |
| | | | ↑ | ← | ↑ | ↰ | ↓ | | |
| 0 | Ped Walk | | 7 5 | | 7 5 | | 7 5 | | |
| 1 | Ped FDW | | 24 | | 25 | | 23 | | |
| 2 | Min Green | | 10 | 7 | 7 | 4 | 10 | | |
| 3 | Type 3 Limit | | | | | | | | |
| 4 | Add/Veh | | | | | | | | |
| 5 | Veh Extn | | 2.8 | 2.9 | 4.1 | 2.0 | 3.2 | | |
| 6 | Max Gap | | 2.8 | 2.9 | 4.1 | 2.0 | 3.2 | | |
| 7 | Min Gap | | 0.2 | 0.2 | 0.2 | 2.0 | 0.2 | | |
| 8 | Max Limit | | 60 40 | 40 30 | 40 30 | 30 20 | 60 40 | | |
| 9 | Max Limit 2 | | | | | | | | |
| A | Bus Adv | | | | | | | | |
| B | Call to Phs | | | | | | | | |
| C | Reduce By | | 0.1 | 0.1 | 0.1 | | 0.1 | | |
| D | Every | | 1.1 | 1.1 | 0.8 | | 1.0 | | |
| E | Yellow | | 4.1 | 3.9 | 3.9 | 3.4 | 3.9 | | |
| F | Red Clear | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | |
| | Grade | | 0.0% | 0.0% | 0.0% | | 0.0% | | |

JDS 12/9/09

JDS 12/9/09

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| | E | | F | Row |
|---|---|---|---|---|
| RR-1 Delay | | Permit | _23456__ | 0 |
| RR-1 Clear | | Red Lock | | 1 |
| EV-A Delay | 0 | Yellow Lock | | 2 |
| EV-A Clear | 0 | Min Recall | | 3 |
| EV-B Delay | 0 | Ped Recall | | 4 |
| EV-B Clear | 0 | Peds (View) | _2_4_6__ | 5 |
| EV-C Delay | 0 | Rest In Walk | | 6 |
| EV-C Clear | 0 | Red Rest | | 7 |
| EV-D Delay | 0 | Dbl Entry | | 8 |
| EV-D Clear | 0 | Max Recall | | 9 |
| RR-2 Delay | | Soft Recall | _2___6__ | A |
| RR-2 Clear | | Max 2 | | B |
| View EV Delay | --- | Cond Serv | | C |
| View EV Clear | --- | Ped Lock | 12345678 | D |
| View RR Delay | --- | Yellow Start | _2___6__ | E |
| View RR Clear | --- | 1st Phases | __3_____ | F |

Preempt Timing
F + E + Row

Phase Functions <F Page>
F + F + Row

## Overlap Timing

| | | 9 | C | D | 0 |
|---|---|---|---|---|---|
| | Row | Green Clear | Yellow Change | Red Clear | Load-Switch # |
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 0.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 13 | C + 0 + 0 |
| Zone Number | 13 | C + 0 + 1 |
| Area Number | 1 | C + 0 + 2 |
| Area Address | 90 | C + 0 + 3 |
| QuicNet Channel | DIGI72: | (QuicNet) |

Communication Addresses

| C + F + O | F | Row |
|---|---|---|
| Free Lag | _2_4_6__ | 0 |

Lag Phases <C Page>

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By: EFF/WXH
Approved By: EFF
Drawing Number: 28337-21-D
Timing Implemented On: 2/10/03

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# INTERSECTION: ROSECRANS/CAM DEL RIO W @ ROSECRANS/SPORTS ARENA 223 Program

| Row | 1 Delay | 3 Carry-over | Detector Name | 332 Input File | Detector Number |
|---|---|---|---|---|---|
| 0 | | | | 1I1 | 14 |
| 1 | | 1.8 | | 2I2U | 1 |
| 2 | | | | 2I2L | 5 |
| 3 | | | | 2I3U | 21 |
| 4 | | | | 2I3L | 25 |
| 5 | | | | 2I4 | 9 |
| 6 | | | | 3I5 | 16 |
| 7 | | 1.8 | | 4I6U | 3 |
| 8 | | | | 4I6L | 7 |
| 9 | | | | 4I7U | 23 |
| A | | | | 4I7L | 27 |
| B | | | | 4I8 | 11 |
| C | | | | 1I9U | 18 |
| D | | | | 3I9L | 20 |
| E | --- | --- | --- | --- | --- |
| F | --- | --- | --- | --- | --- |

| Row | 2 Delay | 4 Carry-over | Detector Name | 332 Input File | Detector Number |
|---|---|---|---|---|---|
| 0 | | | | 5J1 | 13 |
| 1 | | 1.8 | | 6J2U | 2 |
| 2 | | | | 6J2L | 6 |
| 3 | | | | 6J3U | 22 |
| 4 | | | | 6J3L | 26 |
| 5 | | | | 6J4 | 10 |
| 6 | | | | 7J5 | 15 |
| 7 | | 1.8 | | 8J6U | 4 |
| 8 | | | | 8J6L | 8 |
| 9 | | | | 8J7U | 24 |
| A | | | | 8J7L | 28 |
| B | | | | 8J8 | 12 |
| C | | | | 5J9U | 17 |
| D | | | | 7J9L | 19 |
| E | --- | --- | --- | --- | --- |
| F | --- | --- | --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 -- -- -- -- | 1234____ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | -- -- -- -- 21 22 23 24 | ____5678 |
| E | -- -- -- -- -- -- -- -- | 1234____ |
| F | -- 25 26 27 28 -- -- -- | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: ROSECRANS/CAM DEL RIO W @ ROSECRANS/SPORTS ARENA

223 Program

| Row | Plan Name ---> | Plan 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Cycle Length | 125 | 140 | 150 | 140 | | | | | |
| 1 | Phase 1 - ForceOff | | | | | | | | | |
| 2 | Phase 2 - ForceOff | 0 | 0 | 0 | 0 | | | | | |
| 3 | Phase 3 - ForceOff | 28 | 31 | 34 | 31 | | | | | |
| 4 | Phase 4 - ForceOff | 61 | 68 | 74 | 68 | | | | | |
| 5 | Phase 5 - ForceOff | 82 | 90 | 100 | 90 | | | | | |
| 6 | Phase 6 - ForceOff | 0 | 0 | 0 | 0 | | | | | |
| 7 | Phase 7 - ForceOff | | | | | | | | | |
| 8 | Phase 8 - ForceOff | | | | | | | | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | 0 | 133 | 139 | 133 | | | | | |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | 10 | 10 | 10 | 10 | | | | | |
| E | Hold Release | 255 | 255 | 255 | 255 | | | | | |
| F | Ped Shift | 0 | 0 | 0 | 0 | | | | | |

Coordination <C Page>

C + Plan + ROW

Coordination Timing By: EFF/WXH
Implemented On: 2/10/2003

FOR OBSERVATION ONLY

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + E |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 06 : 00 | 1 | A | _23456_ |
| 1 | 11 : 00 | 2 | A | _23456_ |
| 2 | 13 : 00 | 3 | A | _23456_ |
| 3 | 18 : 30 | E | A | _23456_ |
| 4 | 10 : 00 | 4 | A | 1____7 |
| 5 | 18 : 00 | E | A | 1____7 |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination

<9 Key with C+0+9=1>

| | E | Row | | F |
|---|---|---|---|---|
| | | 0 | Free Lag | _2_4_6__ |
| Plan 1 | _2___6__ | 1 | Plan 1 - Lag | _2_4_6__ |
| Plan 2 | _2___6__ | 2 | Plan 2 - Lag | _2_4_6__ |
| Plan 3 | _2___6__ | 3 | Plan 3 - Lag | _2_4_6__ |
| Plan 4 | _2___6__ | 4 | Plan 4 - Lag | _2_4_6__ |
| Plan 5 | | 5 | Plan 5 - Lag | |
| Plan 6 | | 6 | Plan 6 - Lag | |
| Plan 7 | | 7 | Plan 7 - Lag | |
| Plan 8 | | 8 | Plan 8 - Lag | |
| Plan 9 | | 9 | Plan 9 - Lag | |
| Coord Ped* | | A | Coord Max * | |
| NEMA Hold | | B | Coord Lag * | |
| | | C | | |
| | | D | | |
| | | E | | |
| | | F | | |

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

| Transition Type | 0 |
|---|---|

TBC Transition
C + D + 0

Transition Type
0 = Shortway
Non-zero = Lengthen

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

# INTERSECTION: ROSECRANS/CAM DEL RIO W @ ROSECRANS/SPORTS ARENA

223 Program

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest in Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | 2 |
| 6 | Ped 6P | 6 |
| 7 | Ped 4P | 4 |
| 8 | Ped 8P | |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | |

Configuration

E + F + ROW

<E Page>

Day of Week
1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | 2 5 |
| B | EV-B Phases | 4 |
| C | EV-C Phases | 6 |
| D | EV-D Phases | 3 |
| E | Extra 1 Config. Bits | 1 345 |
| F | IC Select (Interconnect) | 2 |

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date
8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 | D+B+0 |
|---|---|---|

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information
C + C + 0 = program
C + C + F = version

Remote Download
C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

# INTERSECTION: CAM DEL RIO W @ KURTZ/GAINES

14

223 Program.

Group Assignment:
Field Master Assignment:

N/S Street Name: CAM DEL RIO W
E/W Street Name: KURTZ/GAINES

Last Database Change:
System Ref. Number:

N

| Row | Phase 1 | Phase 2 | Phase 3 | Phase 4 | Phase 5 | Phase 6 | Phase 7 | Phase 8 |
|---|---|---|---|---|---|---|---|---|
| | CAM DEL RIO W | | | KURTZ | | CAM DEL RIO W | | |
| 0 | Ped Walk | 7.5 | | 7.5 | | 7.5 | | |
| 1 | Ped FDW | 14 | | 35 | | 13 | | |
| 2 | Min Green | 4 | 10 | | 4 | | 10 | |
| 3 | Type 3 Limit | | | | | | | |
| 4 | Add/Veh | | | | | | | |
| 5 | Veh Extn | 2.0 | 3.8 | | 2.0 | | 4.6 | |
| 6 | Max Gap | 2.0 | 3.8 | | 2.0 | | 4.6 | |
| 7 | Min Gap | 2.0 | 0.2 | | 2.0 | | 0.2 | |
| 8 | Max Limit | ~~20~~ 30 | 60 | | 40 | | 40 | |
| 9 | Max Limit 2 | | | | | | | |
| A | Bus Adv | | | | | | | |
| B | Call to Phs | | | | | | | |
| C | Reduce By | | 0.1 | | | | 0.1 | |
| D | Every | | 0.8 | | | | 0.7 | |
| E | Yellow | 3.4 | 4.2 | | 3.9 | | 3.9 | |
| F | Red Clear | 1.0 | 1.0 | | 1.0 | | 1.0 | |
| | Grade | | -3.0% | | | | -3.0% | |

JDS 12/9/09

JDS 12/9/09

Phase Timing - Bank 1
F + Phase + Row

<F Page>

| | E | Row |
|---|---|---|
| RR-1 Delay | | |
| RR-1 Clear | | |
| EV-A Delay | 0 | |
| EV-A Clear | 0 | |
| EV-B Delay | | |
| EV-B Clear | | |
| EV-C Delay | | |
| EV-C Clear | | |
| EV-D Delay | | |
| EV-D Clear | | |
| RR-2 Delay | | |
| RR-2 Clear | | |
| View EV Delay | --- | |
| View EV Clear | --- | |
| View RR Delay | --- | |
| View RR Clear | --- | |

Preempt Timing
F + E + Row

| | F | Row |
|---|---|---|
| Permit | 12_4_6__ | 0 |
| Red Lock | | 1 |
| Yellow Lock | | 2 |
| Min Recall | _2___6__ | 3 |
| Ped Recall | | 4 |
| Peds (View) | _2_4_6__ | 5 |
| Rest In Walk | | 6 |
| Red Rest | | 7 |
| Dbl Entry | | 8 |
| Max Recall | | 9 |
| Soft Recall | | A |
| Max 2 | | B |
| Cond Serv | | C |
| Ped Lock | 12345678 | D |
| Yellow Start | _2___6__ | E |
| 1st Phases | ___4____ | F |

Phase Functions <F Page>
F + F + Row

| | | |
|---|---|---|
| Max Initial | 0 | F + 0 + E |
| Red Revert | 5.0 | F + 0 + F |
| All Red Start | 0.0 | F + C + O |

Start / Revert Times

| | | |
|---|---|---|
| Drop Number | 14 | C + 0 + 0 |
| Zone Number | 14 | C + 0 + 1 |
| Area Number | 1 | C + 0 + 2 |
| Area Address | 91 | C + 0 + 3 |
| QuicNet Channel | DIGI72: | (QuicNet) |

Communication Addresses

Overlap Timing

| | Row | 9 Green Clear | C Yellow Change | D Red Clear | 0 Load-Switch # |
|---|---|---|---|---|---|
| Overlap A | A | | | | |
| Overlap B | B | | | | |
| Overlap C | C | | | | |
| Overlap D | D | | | | |

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

| | | |
|---|---|---|
| Manual Plan | 0 | C + A + 1 |
| Manual Offset | 0 | C + B + 1 |

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

| C + F + O | F | Row |
|---|---|---|
| Free Lag | _2_4_6__ | 0 |

Lag Phases <C Page>

| | | |
|---|---|---|
| Downtime Flash | 255 | (minutes) |

Downtime Before Auto Manual Flash
F + 0 + 8

| | |
|---|---|
| Disable Ports | _234____ |

Disable Communication Ports
D + D + 9

Timing Sheet By: EFF/WXH
Approved By: EFF
Drawing Number: 12495-13-D
Timing Implemented On: 2/10/03

| Row | 1 Delay | 3 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 1I1 | 14 |
| | 2I2U | 1 |
| | 2I2L | 5 |
| | 2I3U | 21 |
| | 2I3L | 25 |
| | 2I4 | 9 |
| | 3I5 | 16 |
| | 4I6U | 3 |
| | 4I6L | 7 |
| | 4I7U | 23 |
| | 4I7L | 27 |
| | 4I8 | 11 |
| | 1I9U | 18 |
| | 3I9L | 20 |
| --- | --- | --- |
| --- | --- | --- |

| Row | 2 Delay | 4 Carry-over |
|---|---|---|
| 0 | | |
| 1 | | 1.8 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| A | | |
| B | | |
| C | | |
| D | | |
| E | --- | --- |
| F | --- | --- |

| Detector Name | 332 Input File | Detector Number |
|---|---|---|
| | 5J1 | 13 |
| | 6J2U | 2 |
| | 6J2L | 6 |
| | 6J3U | 22 |
| | 6J3L | 26 |
| | 6J4 | 10 |
| | 7J5 | 15 |
| | 8J6U | 4 |
| | 8J6L | 8 |
| | 8J7U | 24 |
| | 8J7L | 28 |
| | 8J8 | 12 |
| | 5J9U | 17 |
| | 7J9L | 19 |
| --- | --- | --- |
| --- | --- | --- |

Detector Delay & Carryover <D Page>

D + X (across) + ROW

| Row | Detector Numbers | E |
|---|---|---|
| A | 1 2 3 4 5 6 7 8 | 12345678 |
| B | 9 10 11 12 -- -- -- -- | 1234___ |
| C | 13 14 15 16 17 18 19 20 | 12345678 |
| D | -- -- -- -- 21 22 23 24 | ___5678 |
| E | -- -- -- -- -- -- -- -- | 1234___ |
| F | -- 25 26 27 28 -- -- -- | _2345___ |

Active Detectors <D Page>

| Row | | 0 Detector # |
|---|---|---|
| 0 | | |
| 1 | System Det. # 1 | |
| 2 | System Det. # 2 | |
| 3 | System Det. # 3 | |
| 4 | System Det. # 4 | |
| 5 | System Det. # 5 | |
| 6 | System Det. # 6 | |
| 7 | System Det. # 7 | |
| 8 | System Det. # 8 | |

System Detectors <D Page>

| | | |
|---|---|---|
| Max ON (min) | 5 | D+A+E |
| Max OFF (min) | 60 | D+A+F |

Detector Failure Monitor

| | | |
|---|---|---|
| Phase Number | | F+C+1 |
| Time Before Yellow | | F+C+3 |

Advance Warning Beacon - Sign 1

| | | |
|---|---|---|
| Phase Number | | F+D+1 |
| Time Before Yellow | | F+D+3 |

Advance Warning Beacon - Sign 2

| | | |
|---|---|---|
| Long Failure | 0.5 | F+0+6 |
| Short Failure | 0.5 | F+0+7 |

Power Cycle Correction (Default = 0.5)

# INTERSECTION: CAMINO DEL RIO W @ KURT[illegible]T/GAINES ST

223 Pro[illegible]m

| Row | Column # ---> / Plan Name ---> | Plan 1 | 2 MID | 3 | 4 WKND | 5 | 6 AM | 7 PM | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Cycle Length | | 140 | | 140 | | 130 | 160 | | |
| 1 | Phase 1 - ForceOff | | 75 | | 75 | | 65 | 60 | | |
| 2 | Phase 2 - ForceOff | | 0 | | 0 | | 0 | 0 | | |
| 3 | Phase 3 - ForceOff | | | | | | | | | |
| 4 | Phase 4 - ForceOff | | 42 | | 42 | | 40 | 40 | | |
| 5 | Phase 5 - ForceOff | | | | | | | | | |
| 6 | Phase 6 - ForceOff | | 0 | | 0 | | 0 | 0 | | |
| 7 | Phase 7 - ForceOff | | | | | | | | | |
| 8 | Phase 8 - ForceOff | | | | | | | | | |
| 9 | Ring Offset | | | | | | | | | |
| A | Offset A | | 139 | | 139 | | 4 | 70 | | |
| B | Offset B | | | | | | | | | |
| C | Offset C | | | | | | | | | |
| D | Permissive | | 12 | | 15 | | 13 | 16 | | |
| E | Hold Release | | 255 | | 255 | | 255 | 255 | | |
| F | Ped Shift | | 0 | | 0 | | 5 | 10 | | |

Coordination <C Page>

C + Plan + ROW

Coordination Timing By: M2S
Implemented On:

FOR OBSERVATION ONLY

| | |
|---|---|
| Master Plan | C + A + 2 |
| Current Plan | C + A + 3 |
| Next Plan | C + A + 4 |
| T.O.D. Plan | C + A + 5 |
| Master Cycle | C + A + 0 |
| Ring A Cycle | C + B + 0 |
| Ring B Cycle | C + D + 0 |
| Min Cycle | C + A + E |
| Max Cycle | C + B + E |

| Row | Time | Plan | Offset | Day of Week |
|---|---|---|---|---|
| 0 | 06 : 00 | 6 | A | _23456_ |
| 1 | 11 : 00 | 2 | A | _23456_ |
| 2 | 13 : 00 | 7 | A | _23456_ |
| 3 | 19 : 30 | E | A | _23456_ |
| 4 | 10 : 00 | 4 | A | 1____7 |
| 5 | 18 : 00 | E | A | 1____7 |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

TOD Coordination

<9 Key with C+0+9=1>

| | E | Row | | F |
|---|---|---|---|---|
| | | 0 | Free Lag | |
| Plan 1 | | 1 | Plan 1 - Lag | |
| Plan 2 | _2__6__ | 2 | Plan 2 - Lag | _2_4_6__ |
| Plan 3 | | 3 | Plan 3 - Lag | |
| Plan 4 | _2__6__ | 4 | Plan 4 - Lag | _2_4_6__ |
| Plan 5 | | 5 | Plan 5 - Lag | |
| Plan 6 | _2__6__ | 6 | Plan 6 - Lag | _2_4_6__ |
| Plan 7 | _2__6__ | 7 | Plan 7 - Lag | _2_4_6__ |
| Plan 8 | | 8 | Plan 8 - Lag | |
| Plan 9 | | 9 | Plan 9 - Lag | |
| Coord Ped* | | A | Coord Max * | |
| NEMA Hold | | B | Coord Lag * | |
| | | C | | |
| | | D | | |
| | | E | | |
| | | F | | |

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

| Transition Type | 0 |
|---|---|

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

# INTERSECTION: CAM DEL RIO W @ KURTZ/GAINES

223 Program

| Row | Time | Function | Day of Week | Column F Phases/Bits |
|---|---|---|---|---|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |

**TOD Function**

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

| Row | | F |
|---|---|---|
| 0 | | |
| 1 | RR Overlap A - Phases | |
| 2 | RR Overlap B - Phases | |
| 3 | RR Overlap C - Phases | |
| 4 | RR Overlap D - Phases | |
| 5 | Ped 2P | 2 |
| 6 | Ped 6P | 6 |
| 7 | Ped 4P | 4 |
| 8 | Ped 8P | |
| 9 | Yellow Flash Phases | |
| A | Overlap A - Phases | |
| B | Overlap B - Phases | |
| C | Overlap C - Phases | |
| D | Overlap D - Phases | |
| E | Restricted Phases | |
| F | Assign 5 Outputs | |

**Configuration**

E + F + ROW

<E Page>

**Day of Week**

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

| Row | | E |
|---|---|---|
| 0 | Exclusive Phases | |
| 1 | RR-1 Clear Phases | |
| 2 | RR-2 Clear Phases | |
| 3 | RR-2 Limited Service | |
| 4 | Prot / Perm Phases | |
| 5 | Overlap A - Green Omit | |
| 6 | Overlap B - Green Omit | |
| 7 | Overlap C - Green Omit | |
| 8 | Overlap D - Green Omit | |
| 9 | Overlap Yellow Flash | |
| A | EV-A Phases | 2 |
| B | EV-B Phases | |
| C | EV-C Phases | |
| D | EV-D Phases | |
| E | Extra 1 Config. Bits | 1_345 |
| F | IC Select (Interconnect) | 2 |

**Configuration**

E + E + ROW

For access, set F + 9 + E = 1

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Prelimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

**Time and Date**

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

| Disable Parity | 0 |
|---|---|

D+8+(

**Dial-Up Telephone Communications**

(If set to a non-zero value, parity will be disabled)

**Program Information**

C + C + 0 = program
C + C + F = version

**Remote Download**

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on