Main Street Operations:

Scenario 1:
Protected left-turns {normally Ø1 & Ø5}
- No trap possible, no special sequence omit necessary
- Preempt settings:
    - Emergency = Ø1+ Ø6 or Ø2+ Ø5
    - Transit = Ø2+Ø6

Scenario 2:
Permissive left-turns using flashing red arrow, current operation
- No trap possible, no special sequence omit necessary
- Preempt settings:
    - Emergency = Ø1+ Ø6 or Ø2+ Ø5
    - Transit = Ø2+Ø6

Scenario 3:
Permissive left-turns (5-section display) both directions {normally Ø1 & Ø5}
- Special sequence omit needed to prevent yellow trap for Ø1 & Ø5
    - Special sequence omit for Ø1 to be set to Ø2
    - Special sequence omit for Ø5 to be set to Ø6
    - OCAL function is available for special circumstances
- Preempt settings:
    - Emergency = Ø2+Ø6
    - Transit = Ø2+Ø6

Scenario 4:
One protected left-turn & one permissive left-turn (5-section display) {Ø1 protected and Ø5 permissive}
- Special sequence omit needed to prevent yellow trap for phase 5
    - Special sequence omit for Ø1 to be set to Ø2
    - OCAL for Ø1 to be set to phase 4 (or the last phase used in Ring 1)
- Preempt settings:
    - Emergency = Ø2+Ø6 (for protected direction); Ø2+Ø5 for permissive direction
    - Transit = Ø2+Ø6

Scenario 5:
One protected left-turn & one permissive left-turn (5-section display) {Ø5 protected and Ø1 permissive}
- Special sequence omit needed to prevent yellow trap for phase 1
    - Special sequence omit for Ø5 to be set to Ø6
    - OCAL for Ø5 to be set to phase 4 (or the last phase used in Ring 1)
- Preempt settings:
    - Emergency = Ø2+Ø6 (for protected direction); Ø1+Ø6 for permissive direction
    - Transit = Ø2+Ø6

Scenario 6:
One permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement) {Ø1 signalized permissive left-turn (5-section)}
- Special sequence omit needed to prevent yellow trap for un-signalized movement
    - Special sequence omit Ø1 to be set to Ø2
    - If no side street, OCAL to dummy phase may be necessary
- Preempt settings:
    - Emergency = Ø2+Ø6
    - Transit = Ø2+Ø6

Main Street Operations (continued):

Scenario 7:
One permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø5 signalized permissive left-turn (5-section)}
- Special sequence omit needed to prevent yellow trap for un-signalized movement
    - Special sequence omit Ø5 to be set to Ø6
    - If no side street, OCAL to dummy phase may be necessary
- Preempt settings:
    - Emergency = Ø2+Ø6
    - Transit = Ø2+Ø6

Scenario 8:
One protected left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø1 signalized protected left-turn}
- Trap possible for un-signalized movement
    - Special Sequence omit Ø1 to be set to Ø2
    - OCAL for Ø1 to be set to phase 4 (or last phase in Ring 1)
- Preempt settings:
    - Emergency = Ø2+Ø6
    - Transit = Ø2+Ø6

Scenario 9:
One protected left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø5 signalized protected left-turn}
- Trap possible for un-signalized movement
    - Special Sequence omit Ø5 to be set to Ø6
    - OCAL for Ø5 to be set to phase 4 (or last phase in Ring 1)
- Preempt settings:
    - Emergency = Ø2+Ø6
    - Transit = Ø2+Ø6

LEAD/LAG Operations:

Scenario 10: (LEAD/LAG operations)
Protected left-turns in both directions {phases unknown}
- No trap possible, no special sequence omit necessary
- Preempt settings:
  - Emergency = main street through phase and associated left-turn phase for each direction
  - Transit = main street through phases only

Scenario 11: (LEAD/LAG operations)
Permissive left-turns (5-section display) both directions {phases unknown}
- Must hang sign for LEAD left-turn *"ON COMING TRAFFIC MAY HAVE EXTENDED GREEN"*
- Special Sequence omit LEAD left turn phase to be omitted by opposite through movement phase
- Preempt settings:
  - Emergency = main street through phases only
  - Transit = main street through phases only
- OCAL function is available for special circumstances

Scenario 12: (LEAD/LAG operations)
Protected left-turn LEAD / permissive left-turn LAG (5-section) {phases unknown}
- Special Sequence omit LEAD left-turn phase to be omitted by opposite through movement phase
  - OCAL for LEAD left-turn phase to be set to last phase in Ring 1
- Preempt settings:
  - Emergency = main street through phase for approach with protected left-turn phase; main street through plus left for approach with permissive left-turn phase
  - Transit = main street through phase

Scenario 13: (LEAD/LAG operations)
Permissive left-turn LEAD (5-section) / protected left-turn LAG {phases unknown}
- Must hang sign for LEAD left-turn *"ON COMING TRAFFIC MAY HAVE EXTENDED GREEN"*
- Preempt settings:
  - Emergency = main street through phase and associated left-turn phase for each direction
  - Transit = main street through phase

Scenario 14: (LAG Operation)
One LAG permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement)
- Must hang sign for un-signalized left-turn *"ON COMING TRAFFIC MAY HAVE EXTENDED GREEN"*
- Preempt setting:
  - Emergency = main street through phase
  - Transit = main street through phase

Side Street Operations:

Scenario 1:

Protected left-turns {normally $\emptyset3$ & $\emptyset7$}
- No trap possible, no special sequence omit necessary
- Preempt settings:
  - Emergency = $\emptyset3$+ $\emptyset8$ or $\emptyset4$+ $\emptyset7$
  - Transit = $\emptyset4$+$\emptyset8$

Scenario 2:

Permissive left-turns (5-section display) {normally $\emptyset3$ & $\emptyset7$}
- Trap possible in preemption only due to main street recalls
- Preempt settings:
  - Emergency = $\emptyset4$+ $\emptyset8$
  - Transit = $\emptyset4$+$\emptyset8$

Scenario 3:

One protected left-turn & one permissive left-turn (5-section display) {$\emptyset3$ protected and $\emptyset7$ permissive}
- Trap possible in preemption only due to main street recalls
- Preempt settings:
  - Emergency = $\emptyset4$+$\emptyset8$ (for protected direction); $\emptyset4$+$\emptyset7$ for permissive direction
  - Transit = $\emptyset4$+$\emptyset8$

Scenario 4:

One protected left-turn & one permissive left-turn (5-section display) {$\emptyset7$ protected and $\emptyset3$ permissive}
- Trap possible in preemption only due to main street recalls
- Preempt settings:
  - Emergency = $\emptyset4$+$\emptyset8$ (for protected direction); $\emptyset3$+$\emptyset8$ for permissive direction
  - Transit = $\emptyset4$+$\emptyset8$

Scenario 5:

One permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement) {$\emptyset3$ signalized permissive left-turn}
- Trap possible in preemption only due to main street recalls
- Preempt settings:
  - Emergency = $\emptyset4$+$\emptyset8$
  - Transit = $\emptyset4$+$\emptyset8$

Scenario 6:

One permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement) {$\emptyset7$ signalized permissive left-turn}
- Trap possible in preemption only due to main street recalls
- Preempt settings:
  - Emergency = $\emptyset4$+$\emptyset8$
  - Transit = $\emptyset4$+$\emptyset8$

Scenario 7:

One protected left-turn & one un-signalized permissive left-turn (left-turn from through movement) {$\emptyset3$ signalized protected left-turn}
- Trap possible in preemption only due to main street recalls
- Preempt settings:
  - Emergency = $\emptyset4$+$\emptyset8$
  - Transit = $\emptyset4$+$\emptyset8$

Side Street Operations (continued):

Scenario 8:
One protected left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø7 signalized protected left-turn}
- Trap possible in preemption only due to main street recalls
- Preempt settings:
  - Emergency = Ø4+Ø8
  - Transit = Ø4+Ø8