Appendix H:
Existing Conditions Traffic Operations

FEHR PEERS

MEMORANDUM

Date: February 10, 2017

To: Brent Pearse, VTA

From: Carrie Modi, Matt Haynes, and Vicki Caudullo

Subject: Draft Intersection Traffic Operations Memorandum

OK16-0122

This memorandum presents the results of our draft traffic operations assessment for the Story-Keyes Corridor Complete Streets Study (the Study). This memorandum summarizes existing conditions of intersection traffic operations on the corridor.

OVERVIEW

The Story-Keyes Complete Streets corridor begins at Willow Street east of the Guadalupe Freeway and continues east along Graham Avenue, Goodyear Street and Keyes Street, terminating at Capitol Expressway. For the purposes of the existing conditions analysis, 20 intersections along the corridor were analyzed. Intersection operations vary throughout the corridor and are summarized below. The purpose of this broader look at existing traffic operations is to identify potential constraints on the corridor. As alternatives are studied and evaluated in future phases of the Study, the traffic operations analysis will focus on the five highest priority locations.

ANALYSIS SCENARIOS

The operations of the study intersections were evaluated during the weekday morning (AM) peak hour and weekday evening (PM) peak hour in existing conditions.

ANALYSIS METHODS

The operations of roadway facilities are described with the term *level of service.* Level of Service (LOS) is a qualitative description of traffic flow based on factors such as speed, travel time, delay,

and freedom to maneuver. Six levels are defined from LOS A, the best operating conditions, to LOS F, the worst operating conditions. LOS E represents "at-capacity" operations. When traffic volumes exceed the intersection capacity, stop-and-go conditions result, and operations are designated as LOS F.

Local Analysis

Existing conditions are based on the City of San Jose citywide TRAFFIX 8.0 software program database, last updated August 13, 2015. The City's TRAFFIX model was used to calculate level of service with some additional inputs of traffic volumes from the City of San Jose.

Signalized Intersections

The method described in Chapter 16 of the 2000 *Highway Capacity Manual* (HCM) (Special report 209, Transportation Research Board) was used to prepare the level of service calculation for the study intersections. This level of service method, which is commonly used by the City of San Jose and VTA, analyzes a signalized intersection's operation based on average control delay per vehicle. Control delay includes the initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. The average control delay for signalized intersections is calculated using TRAFFIX analysis software and is correlated to a LOS designation as shown in **Table 1**.

TABLE 1: SIGNALIZED INTERSECTION LEVEL OF SERVICE DEFINITIONS

USING AVERAGE CONTROL VEHICULAR DELAY

Level of Service	Description	Average Control Delay Per Vehicle (Seconds)
A	Operations with very low delay occurring with favorable progression and/or short cycle lengths.	≤ 10.0
B+ B B-	Operations with low delay occurring with good progression and/or short cycle lengths.	10.1 to 12.0 12.1 to 18.0 18.1 to 20.0
C+ C C-	Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	20.1 to 23.0 23.1 to 32.0 32.1 to 35.0
D+ D D-	Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, and high V/C ratios. Many vehicles stop and individual cycle failures are noticeable.	35.1 to 39.0 39.1 to 51.0 51.1 to 55.0
E+ E E-	Operations with high delay values indicating poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences.	55.1 to 60.0 60.1 to 75.0 75.1 to 80.0
F	Operations with delays unacceptable to most drivers occurring due to over-saturation, poor progression, or very long cycle lengths.	> 80.0

Source: *Traffic Level of Service Analysis Guidelines*, VTA Congestion Management Program, October 2014; VTA LOS Analysis Guidelines, 2003. *Highway Capacity Manual*, Transportation Research Board, 2000.

EXISTING CONDITIONS

Existing intersection lane configurations, signal timings, and peak-hour turning movement volumes were used to calculate the levels of service for the key intersections during each peak hour. The results of the LOS analysis are presented in **Table 2**. **Appendix A** contains the corresponding calculation sheets.

TABLE 2: EXISTING INTERSECTION LEVELS OF SERVICE

	Intersection	Jurisdiction / CMP[1]	LOS Threshold[2]	Peak Hour[3]	Delay[4]	LOS[5]
1	Vine Street / Willow Street	City of San Jose	D	AM PM	8.0 16.2	A B
2	Almaden Avenue / Willow Street	City of San Jose	D	AM PM	16.1 14.9	B B
3	First Street / Keyes Street	City of San Jose (CMP)	D	AM PM	27.1 28.9	C C
4	Keyes Street / Second Street	City of San Jose	D	AM PM	19.2 31.4	B- C
5	Keyes Street / Third Street	City of San Jose	D	AM PM	22.5 12.9	C+ B
6	Keyes Street / Seventh Street	City of San Jose	D	AM PM	34.3 36.7	C- D+
7	Keyes Street / Tenth Street	City of San Jose	D	AM PM	25.7 25.2	C C
8	Eleventh Street / Keyes Street	City of San Jose	D	AM PM	27.1 25.2	C C
9	Keyes Street / Senter Road	City of San Jose	D	AM PM	26.0 28.1	C C
10	Roberts Avenue / Story Road	City of San Jose	D	AM PM	18.5 22.1	B- C+
11	Lucretia Avenue / Story Road	City of San Jose	D	AM PM	29.9 32.4	C C-
12	McLaughlin Avenue / Story Road	City of San Jose	D	AM PM	40.4 45.2	D D
13	Felipe Avenue / Story Road	City of San Jose	D	AM PM	25.2 22.9	C C+
14	Knox Avenue / Story Road	City of San Jose	D	AM PM	25.2 25.0	C C
15	King Road / Story Road	City of San Jose	D	AM PM	50.9 55.9	D E+
16	Bal Harbor Way / Story Road	City of San Jose	D	AM PM	34.8 28.7	C- C
17	Hopkins Drive / Story Road	City of San Jose	D	AM PM	35.1 31.5	D+ C
18	Adrian Way / Story Road	City of San Jose	D	AM PM	24.2 27.4	C C

TABLE 2: EXISTING INTERSECTION LEVELS OF SERVICE

Intersection		Jurisdiction / CMP[1]	LOS Threshold[2]	Peak Hour[3]	Delay[4]	LOS[5]
19	Jackson Avenue / Story Road	City of San Jose	D	AM PM	27.8 32.6	C C-
20	Capitol Expressway / Story Road	County of Santa Clara and City of San Jose (CMP)	D/E	AM PM	56.6 52.7	E+ D-

Notes:
Bold text indicates intersection operates at unacceptable level of service.
1. Intersection jurisdiction and identification of CMP (Congestion Management Program) intersections.
2. Santa Clara County intersections in San Jose use an LOS E threshold.
3. AM = morning peak hour, PM = evening peak hour.
4. Whole intersection weighted average control delay expressed in seconds per vehicle calculated using methods described in the 2000 *Highway Capacity Manual*, with adjusted saturation flow rates to reflect Santa Clara County Conditions for signalized intersections.
5. LOS = Level of Service. LOS calculations conducted using the TRAFFIX analysis software packages, which apply the methods described in the 2000 *Highway Capacity Manual*.
Source: Fehr & Peers, 2016.

The results indicate that of the 20 studied intersections, only King Road/Story Road in the PM peak hour does not operate at the acceptable service level. All other intersections operate at acceptable service levels (LOS D or better for City of San Jose intersections and LOS E or better for regionally significant intersections (CCMP)) during the AM and PM peak hours.

King Road/Story Road and Capitol Expressway/Story Road operate at the worst LOS of the 20 studied intersections, with LOS D and LOS E+ for King Road/Story Road, and LOS E+ and D for Capitol Expressway/Story Road AM and PM peak hours respectively.

These results suggest that many intersections along the corridor operate below their capacity under existing conditions. However, some intersections operate at or near designated LOS thresholds, and as a result design alternatives for the corridor will need to balance traffic operations performance against other project priorities and goals.

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

Intersection #3097: FIRST/KEYES

Signal=Protect/Rights=Include
Final Vol: 9   202   44***
Lanes: 0   1   1   0   1

Final Vol: Lanes: Signal=Protect   Vol Cnt Date: 5/19/2015   Signal=Protect   Lanes: Final Vol:
                    Rights=Include   Cycle Time (sec):   126   Rights=Include

21***   1   Loss Time (sec):   12   0   144

            0   1

178   1   Critical V/C: 0.591   1   313***

            1   Avg Crit Del (sec/veh): 25.9   0

43   0   Avg Delay (sec/veh):   27.1   0   0

                                             LOS: C

Lanes: 1   0   1   1   0
Final Vol: 54   1376***   9
Signal=Protect/Rights=Include

```
Approach:        North Bound      South Bound       East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|----------------||----------------||----------------||----------------|
Min. Green:      7   10   10      7   10   10      7   10   10      0   10   10
Y+R:           4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|----------------||----------------||----------------||----------------|
Volume Module: >> Count Date: 19 May 2015 << 7:30-8:30
Base Vol:       54 1376    9     44  202    9     21  178   43      0  313  144
Growth Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:    54 1376    9     44  202    9     21  178   43      0  313  144
Added Vol:       0    0    0      0    0    0      0    0    0      0    0    0
ATI:             0    0    0      0    0    0      0    0    0      0    0    0
Initial Fut:    54 1376    9     44  202    9     21  178   43      0  313  144
User Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:     54 1376    9     44  202    9     21  178   43      0  313  144
Reduct Vol:      0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:    54 1376    9     44  202    9     21  178   43      0  313  144
PCE Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:    54 1376    9     44  202    9     21  178   43      0  313  144
------------|----------------||----------------||----------------||----------------|
Saturation Flow Module:
Sat/Lane:     1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment:   0.92 0.97 0.95   0.92 0.97 0.95   0.92 0.98 0.95   0.00 0.99 0.95
Lanes:        1.00 1.99 0.01   1.00 1.91 0.09   1.00 1.60 0.40   0.00 1.35 0.65
Final Sat.:   1750 3676   24   1750 3542  158   1750 2980  720      0 2533 1165
------------|----------------||----------------||----------------||----------------|
Capacity Analysis Module:
Vol/Sat:      0.03 0.37 0.37   0.03 0.06 0.06   0.01 0.06 0.06   0.00 0.12 0.12
Crit Moves:        ****            ****            ****                 ****
Green Time:   33.8 75.2 75.2    7.0 48.3 48.3    7.0 31.8 31.8    0.0 24.8 24.8
Volume/Cap:   0.11 0.63 0.63   0.45 0.15 0.15   0.22 0.24 0.24   0.00 0.63 0.63
Delay/Veh:    34.9 17.0 17.0   61.0 25.4 25.4   58.0 37.6 37.6    0.0 48.1 48.1
User DelAdj:  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:   34.9 17.0 17.0   61.0 25.4 25.4   58.0 37.6 37.6    0.0 48.1 48.1
LOS by Move:   C-   B    B      E    C    C      E+   D+   D+      A    D    D
HCM2kAvgQ:       2   18   18      2    3    3      1    3    3      0    9    9
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
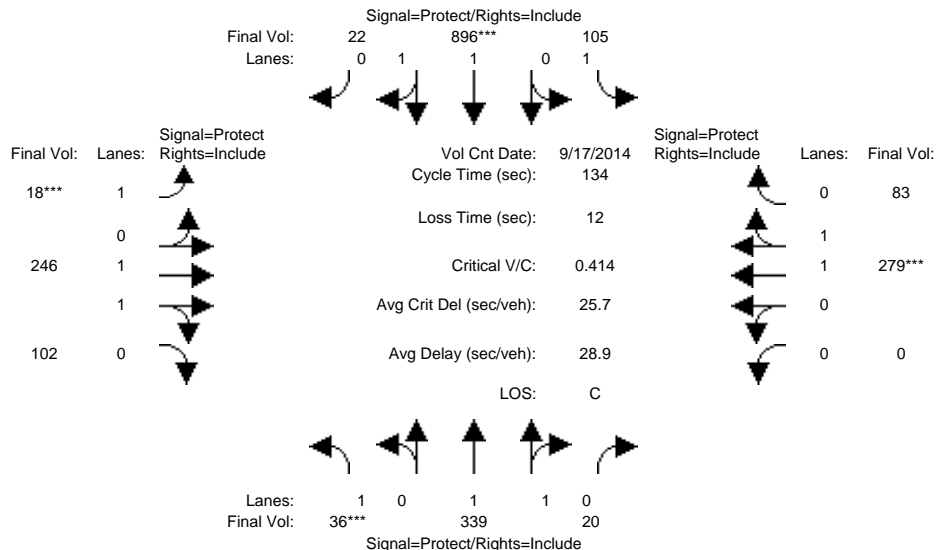Existing (PM)

Intersection #3097: FIRST/KEYES

```
                              Signal=Protect/Rights=Include
              Final Vol:     22        896***        105
              Lanes:      0    1    1      0    1

                    ↙      ↙↓    ↓    ↓↘      ↘


  Signal=Protect                                              Signal=Protect
Final Vol: Lanes: Rights=Include          Vol Cnt Date:  9/17/2014  Rights=Include  Lanes: Final Vol:
                                          Cycle Time (sec):    134
  18***    1     ↱                                              ↑         0       83

           0     ↑                        Loss Time (sec):     12        ↰
                                                                         1
  246      1     →                        Critical V/C:       0.414     ←       1      279***

           1     ↳                        Avg Crit Del (sec/veh): 25.7   ↳       0

  102      0     ↓                        Avg Delay (sec/veh):  28.9     ↓       0       0

                                          LOS:                  C

                    ↙     ↖↑     ↑    ↑↗      →

              Lanes:      1    0    1      1    0
              Final Vol:    36***        339         20
                              Signal=Protect/Rights=Include
```

```
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|----------------||----------------||----------------||----------------|
Min. Green:    7   10   10      7   10   10      7   10   10      0   10   10
Y+R:          4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|----------------||----------------||----------------||----------------|
Volume Module: >> Count Date: 17 Sep 2014 << 4:55-5:55
Base Vol:      36  339   20    105  896   22     18  246  102      0  279   83
Growth Adj:  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   36  339   20    105  896   22     18  246  102      0  279   83
Added Vol:      0    0    0      0    0    0      0    0    0      0    0    0
ATI:            0    0    0      0    0    0      0    0    0      0    0    0
Initial Fut:   36  339   20    105  896   22     18  246  102      0  279   83
User Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    36  339   20    105  896   22     18  246  102      0  279   83
Reduct Vol:     0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:   36  339   20    105  896   22     18  246  102      0  279   83
PCE Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   36  339   20    105  896   22     18  246  102      0  279   83
------------|----------------||----------------||----------------||----------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment:  0.92 0.98 0.95   0.92 0.97 0.95   0.92 0.98 0.95   0.92 0.98 0.95
Lanes:       1.00 1.89 0.11   1.00 1.95 0.05   1.00 1.40 0.60   0.00 1.53 0.47
Final Sat.:  1750 3494  206   1750 3611   89   1750 2615 1084      0 2851  848
------------|----------------||----------------||----------------||----------------|
Capacity Analysis Module:
Vol/Sat:     0.02 0.10 0.10   0.06 0.25 0.25   0.01 0.09 0.09   0.00 0.10 0.10
Crit Moves:  ****              ****             ****                  ****
Green Time:   7.0 52.2 52.2   32.3 77.5 77.5    7.0 37.5 37.5    0.0 30.5 30.5
Volume/Cap:  0.39 0.25 0.25   0.25 0.43 0.43   0.20 0.34 0.34   0.00 0.43 0.43
Delay/Veh:   64.2 27.8 27.8   41.4 16.0 16.0   61.9 38.5 38.5    0.0 44.6 44.6
User DelAdj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:  64.2 27.8 27.8   41.4 16.0 16.0   61.9 38.5 38.5    0.0 44.6 44.6
LOS by Move:    E    C    C      D    B    B      E   D+   D+      A    D    D
HCM2kAvgQ:      2    5    5      4   11   11      1    6    6      0    7    7
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
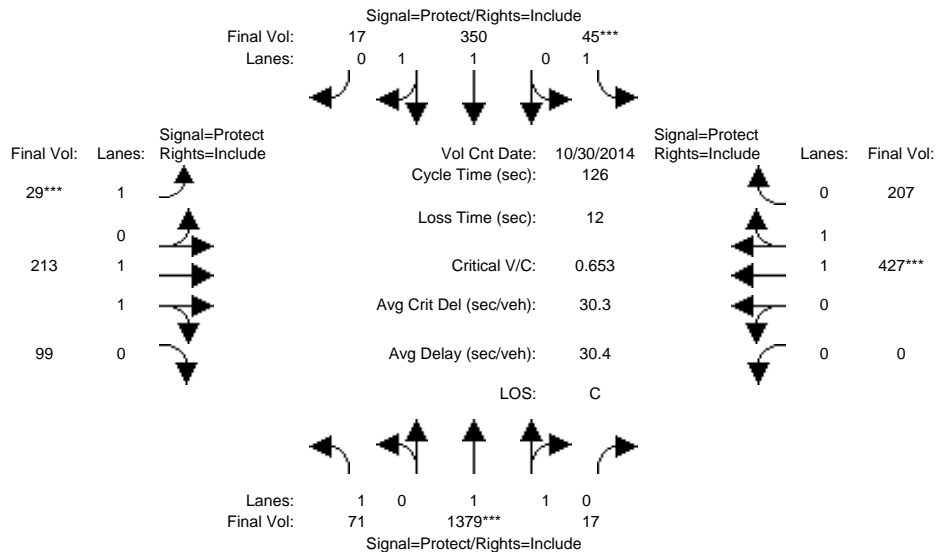Background (AM)

Intersection #3097: FIRST/KEYES

```
                              Signal=Protect/Rights=Include
             Final Vol:      17        350        45***
             Lanes:        0    1      1      0    1


            Signal=Protect                              Signal=Protect
Final Vol: Lanes: Rights=Include      Vol Cnt Date: 10/30/2014   Rights=Include  Lanes:  Final Vol:
                                      Cycle Time (sec):   126
  29***    1                                                                      0       207

           0                          Loss Time (sec):    12                      1

  213      1                          Critical V/C:      0.653                     1       427***

           1                          Avg Crit Del (sec/veh): 30.3                 0

  99       0                          Avg Delay (sec/veh):    30.4                 0       0

                                      LOS:                C


             Lanes:        1    0      1      1    0
             Final Vol:     71      1379***      17
                              Signal=Protect/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   7   10   10     7   10   10     7   10   10      0   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 30 Oct 2014 << 7:30-8:30AM
Base Vol:    42 1232   17    35  208   17    29  150   45      0  352  196
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse: 42 1232   17    35  208   17    29  150   45      0  352  196
Added Vol:    0    0    0     0    0    0     0    0    0      0    0    0
ATI:         29  147    0    10  142    0     0   63   54      0   75   11
Initial Fut: 71 1379   17    45  350   17    29  213   99      0  427  207
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:  71 1379   17    45  350   17    29  213   99      0  427  207
Reduct Vol:   0    0    0     0    0    0     0    0    0      0    0    0
Reduced Vol: 71 1379   17    45  350   17    29  213   99      0  427  207
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume: 71 1379   17    45  350   17    29  213   99      0  427  207
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:  1900 1900 1900  1900 1900 1900  1900 1900 1900   1900 1900 1900
Adjustment: 0.92 0.97 0.95  0.92 0.97 0.95  0.92 0.99 0.95   0.92 0.99 0.95
Lanes:     1.00 1.97 0.03  1.00 1.90 0.10  1.00 1.35 0.65   0.00 1.33 0.67
Final Sat.: 1750 3655   45  1750 3528  171  1750 2525 1174    0 2491 1208
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:   0.04 0.38 0.38  0.03 0.10 0.10  0.02 0.08 0.08   0.00 0.17 0.17
Crit Moves:       ****           ****           ****             ****
Green Time: 27.2 68.8 68.8   7.0 48.6 48.6   7.0 38.2 38.2    0.0 31.2 31.2
Volume/Cap: 0.19 0.69 0.69  0.46 0.26 0.26  0.30 0.28 0.28   0.00 0.69 0.69
Delay/Veh: 40.6 21.9 21.9  61.1 26.5 26.5  58.9 33.5 33.5    0.0 45.3 45.3
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 40.6 21.9 21.9  61.1 26.5 26.5  58.9 33.5 33.5    0.0 45.3 45.3
LOS by Move:  D   C+   C+    E    C    C     E+   C-   C-      A    D    D
HCM2kAvgQ:    2   20   20    2    5    5     1    5    5       0   12   12
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

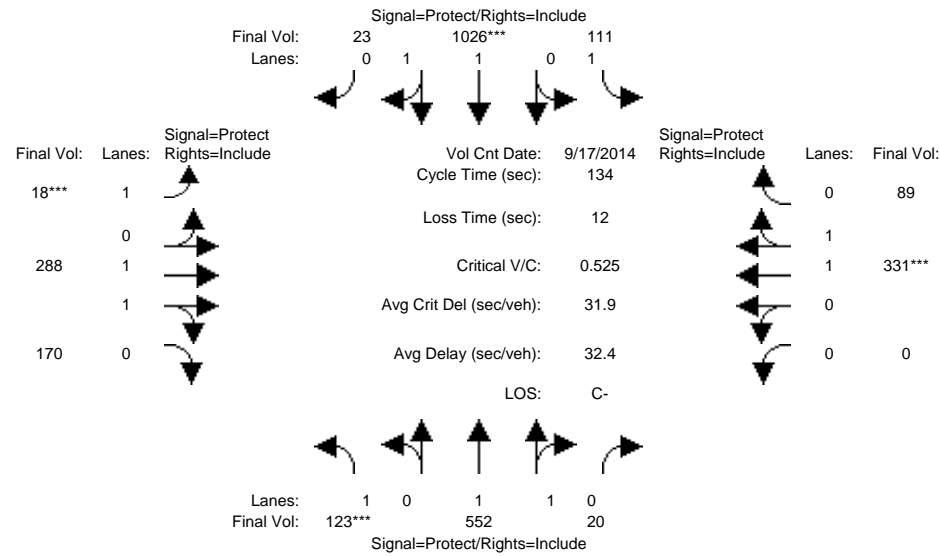## Intersection #3097: FIRST/KEYES

```
                            Signal=Protect/Rights=Include
              Final Vol:        23        1026***       111
              Lanes:          0    1      1      0    1


  Final Vol:  Lanes:  Signal=Protect                              Signal=Protect      Lanes:  Final Vol:
                      Rights=Include        Vol Cnt Date:  9/17/2014    Rights=Include
                                            Cycle Time (sec):     134
    18***     1                                                                          0        89

              0                             Loss Time (sec):       12                    1

    288       1                             Critical V/C:        0.525                   1       331***

              1                             Avg Crit Del (sec/veh): 31.9                 0

    170       0                             Avg Delay (sec/veh):   32.4                  0        0

                                            LOS:                    C-


              Lanes:          1    0      1      1    0
              Final Vol:    123***        552          20
                            Signal=Protect/Rights=Include
```

```
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    7   10   10     7   10   10     7   10   10     0   10   10
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 17 Sep 2014 << 4:55-5:55PM
Base Vol:      36  339   20   105  896   22    18  246  102     0  279   83
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:   36  339   20   105  896   22    18  246  102     0  279   83
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:           87  213    0     6  130    1     0   42   68     0   52    6
Initial Fut:  123  552   20   111 1026   23    18  288  170     0  331   89
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   123  552   20   111 1026   23    18  288  170     0  331   89
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  123  552   20   111 1026   23    18  288  170     0  331   89
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  123  552   20   111 1026   23    18  288  170     0  331   89
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.92 0.97 0.95  0.92 0.97 0.95  0.92 0.99 0.95  0.92 0.98 0.95
Lanes:       1.00 1.93 0.07  1.00 1.95 0.05  1.00 1.24 0.76  0.00 1.56 0.44
Final Sat.:  1750 3571  129  1750 3619   81  1750 2326 1373     0 2915  784
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.07 0.15 0.15  0.06 0.28 0.28  0.01 0.12 0.12  0.00 0.11 0.11
Crit Moves:  ****            ****             ****                  ****
Green Time:  17.3 61.7 61.7  25.3 69.8 69.8   7.0 34.9 34.9   0.0 27.9 27.9
Volume/Cap:  0.54 0.34 0.34  0.34 0.54 0.54  0.20 0.47 0.47  0.00 0.54 0.54
Delay/Veh:   57.4 23.2 23.2  47.7 21.8 21.8  61.9 42.2 42.2   0.0 48.2 48.2
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  57.4 23.2 23.2  47.7 21.8 21.8  61.9 42.2 42.2   0.0 48.2 48.2
LOS by Move:   E+   C    C     D   C+   C+    E    D    D     A    D    D
HCM2kAvgQ:      6    7    7     4   15   15     1    8    8     0    8    8
Note: Queue reported is the number of cars per lane.
```

City of San Jose
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(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

Intersection #3220: ADRIAN/STORY
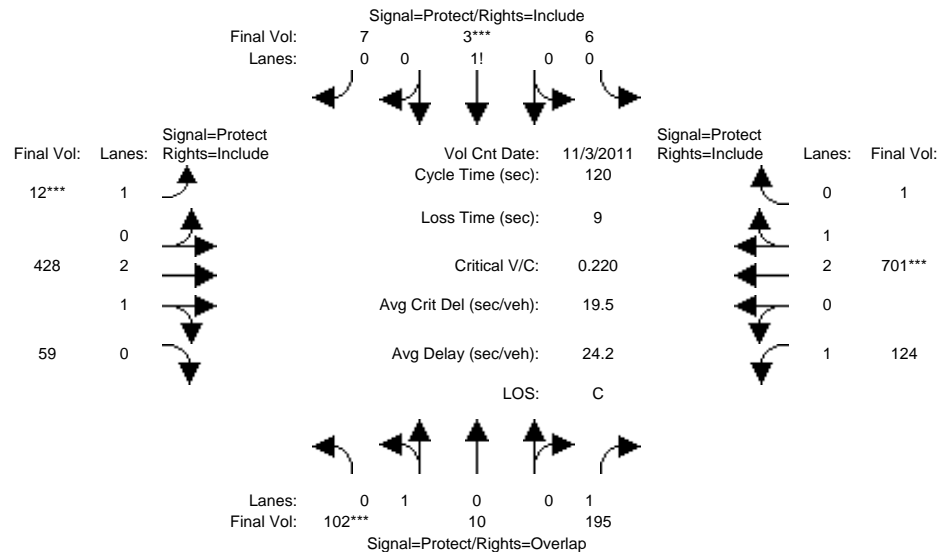
```
                            Signal=Protect/Rights=Include
                  Final Vol:      7           3***          6
                  Lanes:        0    0        1!       0    0

                                                                              
        Signal=Protect                                    Signal=Protect
Final Vol:  Lanes:  Rights=Include      Vol Cnt Date:  11/3/2011   Rights=Include   Lanes:  Final Vol:
                                        Cycle Time (sec):    120
  12***      1                                                                       0        1

             0                          Loss Time (sec):      9                      1

  428        2                          Critical V/C:       0.220                    2      701***

             1                          Avg Crit Del (sec/veh):  19.5               0

  59         0                          Avg Delay (sec/veh):  24.2                  1        124

                                        LOS:                   C

                  Lanes:        0    1        0       0    1
                  Final Vol:  102***        10           195
                            Signal=Protect/Rights=Overlap
```

```
Approach:         North Bound     South Bound     East Bound      West Bound
Movement:       L  -  T  -  R    L  -  T  -  R   L  -  T  -  R    L  -  T  -  R
------------|----------------||----------------||----------------||----------------|
Min. Green:     10   10   10     10   10   10     7   10   10      7   10   10
Y+R:           4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|----------------||----------------||----------------||----------------|
Volume Module: >> Count Date: 3 Nov 2011 << 7:30-8:30
Base Vol:      102   10  195      6    3    7     12  428   59    124  701    1
Growth Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   102   10  195      6    3    7     12  428   59    124  701    1
Added Vol:       0    0    0      0    0    0      0    0    0      0    0    0
ATI:             0    0    0      0    0    0      0    0    0      0    0    0
Initial Fut:   102   10  195      6    3    7     12  428   59    124  701    1
User Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    102   10  195      6    3    7     12  428   59    124  701    1
Reduct Vol:      0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:   102   10  195      6    3    7     12  428   59    124  701    1
PCE Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   102   10  195      6    3    7     12  428   59    124  701    1
------------|----------------||----------------||----------------||----------------|
Saturation Flow Module:
Sat/Lane:     1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment:   0.95 0.95 0.92   0.92 0.92 0.92   0.92 0.99 0.95   0.92 0.98 0.95
Lanes:        0.91 0.09 1.00   0.37 0.19 0.44   1.00 2.62 0.38   1.00 2.99 0.01
Final Sat.:   1639  161 1750    656  328  766   1750 4921  678   1750 5592    8
------------|----------------||----------------||----------------||----------------|
Capacity Analysis Module:
Vol/Sat:      0.06 0.06 0.11   0.01 0.01 0.01   0.01 0.09 0.09   0.07 0.13 0.13
Crit Moves:   ****              ****             ****                  ****
Green Time:   31.2 20.6 51.9   20.6 10.0 10.0    7.0 38.5 38.5   31.3 62.8 62.8
Volume/Cap:   0.24 0.36 0.26   0.05 0.11 0.11   0.12 0.27 0.27   0.27 0.24 0.24
Delay/Veh:    35.3 44.6 21.9   41.6 51.2 51.2   54.1 30.4 30.4   35.6 15.6 15.6
User DelAdj:  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:   35.3 44.6 21.9   41.6 51.2 51.2   54.1 30.4 30.4   35.6 15.6 15.6
LOS by Move:   D+   D    C+     D    D-   D-     D-   C    C      D+   B    B
HCM2kAvgQ:      3    4    5      1    1    1      1    4    4      4    5    5
Note: Queue reported is the number of cars per lane.
```

City of San Jose
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(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (PM)

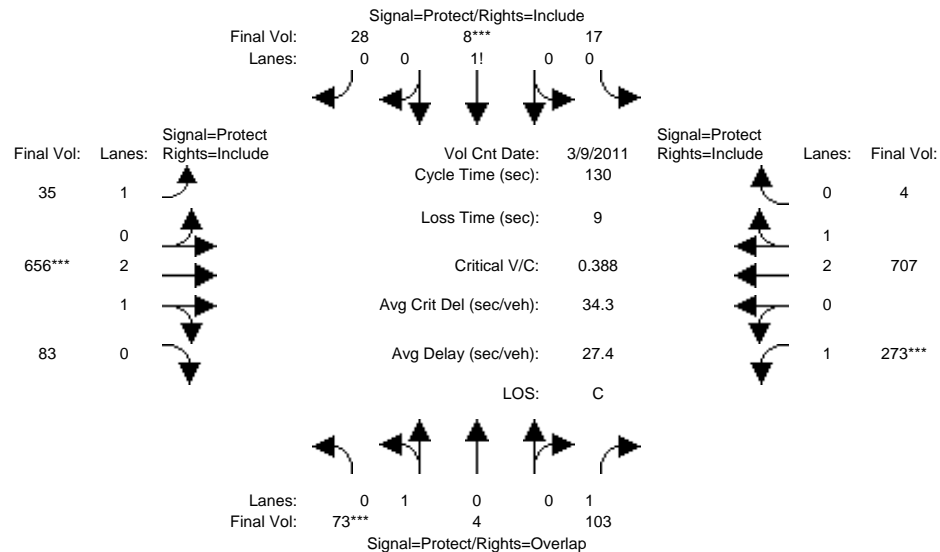## Intersection #3220: ADRIAN/STORY

Signal=Protect/Rights=Include

```
                        Final Vol:      28          8***          17
                        Lanes:        0    0       1!        0    0
```

```
                      Signal=Protect                                   Signal=Protect
Final Vol:  Lanes:    Rights=Include       Vol Cnt Date:   3/9/2011    Rights=Include    Lanes:   Final Vol:

   35         1                            Cycle Time (sec):   130                         0          4

              0                                                                            1

  656***      2                            Critical V/C:      0.388                        2         707

              1                            Avg Crit Del (sec/veh):  34.3                   0

   83         0                            Avg Delay (sec/veh):     27.4                   1        273***

                                           LOS:               C
```

```
                        Lanes:         0    1       0        0    1
                        Final Vol:    73***          4           103
```

Signal=Protect/Rights=Overlap

```
Approach:        North Bound       South Bound       East Bound       West Bound
Movement:      L  -  T  -  R     L  -  T  -  R     L  -  T  -  R     L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:    10   10   10     10   10   10      7   10   10      7   10   10
Y+R:          4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 9 Mar 2011 << 5:00-6:00
Base Vol:      73    4  103     17    8   28     35  656   83    273  707    4
Growth Adj:  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   73    4  103     17    8   28     35  656   83    273  707    4
Added Vol:      0    0    0      0    0    0      0    0    0      0    0    0
ATI:            0    0    0      0    0    0      0    0    0      0    0    0
Initial Fut:   73    4  103     17    8   28     35  656   83    273  707    4
User Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    73    4  103     17    8   28     35  656   83    273  707    4
Reduct Vol:     0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:   73    4  103     17    8   28     35  656   83    273  707    4
PCE Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   73    4  103     17    8   28     35  656   83    273  707    4
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment:  0.95 0.95 0.92   0.92 0.92 0.92   0.92 0.99 0.95   0.92 0.98 0.95
Lanes:       0.95 0.05 1.00   0.32 0.15 0.53   1.00 2.65 0.35   1.00 2.98 0.02
Final Sat.:  1706   94 1750    561  264  925   1750 4970  629   1750 5568   32
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.04 0.04 0.06   0.03 0.03 0.03   0.02 0.13 0.13   0.16 0.13 0.13
Crit Moves:  ****                 ****              ****         ****
Green Time:  14.3 12.2 64.5   12.2 10.1 10.1   28.7 44.2 44.2   52.3 67.8 67.8
Volume/Cap:  0.39 0.45 0.12   0.32 0.39 0.39   0.09 0.39 0.39   0.39 0.24 0.24
Delay/Veh:   55.0 57.6 17.6   56.1 58.8 58.8   40.3 32.7 32.7   27.9 17.1 17.1
User DelAdj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:  55.0 57.6 17.6   56.1 58.8 58.8   40.3 32.7 32.7   27.9 17.1 17.1
LOS by Move:   E+   E+    B     E+   E+   E+      D   C-   C-      C    B    B
HCM2kAvgQ:      3    4    2      2    3    3      1    8    8      8    5    5
Note: Queue reported is the number of cars per lane.
```

City of San Jose
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

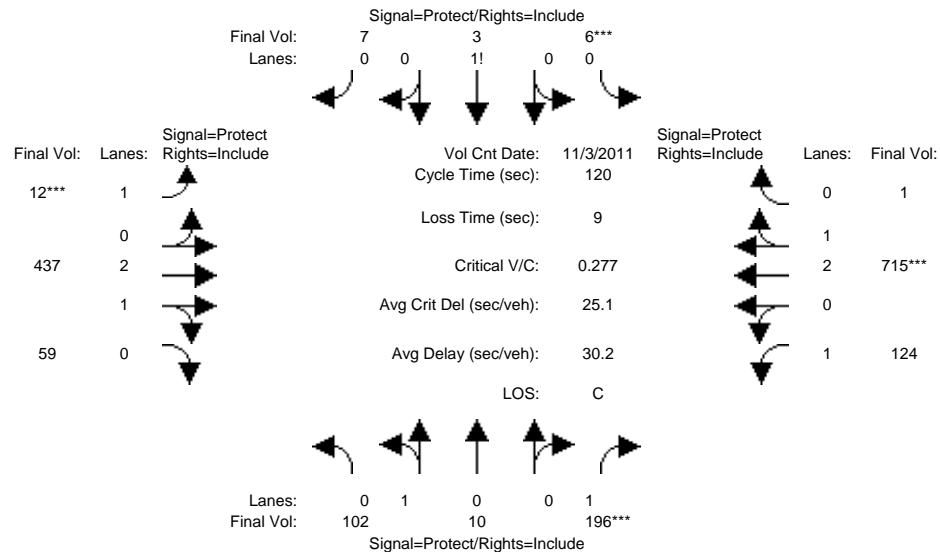## Intersection #3220: ADRIAN/STORY

```
                        Signal=Protect/Rights=Include
          Final Vol:        7         3         6***
          Lanes:         0    0       1!      0    0


Final Vol: Lanes:  Signal=Protect                              Signal=Protect
                   Rights=Include      Vol Cnt Date: 11/3/2011 Rights=Include  Lanes: Final Vol:
                                       Cycle Time (sec):  120
  12***      1                                                                   0       1

             0                         Loss Time (sec):     9                    1

  437        2                         Critical V/C:     0.277                   2     715***

             1                         Avg Crit Del (sec/veh): 25.1              0

  59         0                         Avg Delay (sec/veh): 30.2                 1      124

                                       LOS:                 C


          Lanes:         0    1       0       0    1
          Final Vol:        102       10        196***
                        Signal=Protect/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||--------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||--------------|
Volume Module: >> Count Date: 3 Nov 2011 << 7:30-8:30AM
Base Vol:    102   10  195     6    3    7    12  428   59   124  701    1
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 102   10  195     6    3    7    12  428   59   124  701    1
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    1     0    0    0     0    9    0     0   14    0
Initial Fut: 102   10  196     6    3    7    12  437   59   124  715    1
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  102   10  196     6    3    7    12  437   59   124  715    1
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 102   10  196     6    3    7    12  437   59   124  715    1
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 102   10  196     6    3    7    12  437   59   124  715    1
------------|---------------||---------------||---------------||--------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.95 0.95 0.92  0.92 0.92 0.92  0.92 0.99 0.95  0.92 0.98 0.95
Lanes:      0.91 0.09 1.00  0.37 0.19 0.44  1.00 2.63 0.37  1.00 2.99 0.01
Final Sat.: 1639  161 1750   656  328  766  1750 4933  666  1750 5592    8
------------|---------------||---------------||---------------||--------------|
Capacity Analysis Module:
Vol/Sat:    0.06 0.06 0.11  0.01 0.01 0.01  0.01 0.09 0.09  0.07 0.13 0.13
Crit Moves:       **** ****  **** ****            ****             ****
Green Time: 26.9 43.9 43.9  10.0 26.9 26.9   7.0 31.7 31.7  25.4 50.1 50.1
Volume/Cap: 0.28 0.17 0.31  0.11 0.04 0.04  0.12 0.34 0.34  0.34 0.31 0.31
Delay/Veh:  38.8 25.9 27.5  51.2 36.5 36.5  54.1 35.8 35.8  40.7 23.4 23.4
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 38.8 25.9 27.5  51.2 36.5 36.5  54.1 35.8 35.8  40.7 23.4 23.4
LOS by Move:  D+   C    C    D-   D+   D+    D-   D+   D+     D    C    C
HCM2kAvgQ:     4    3    6     1    0    0     1    5    5     4    6    6
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

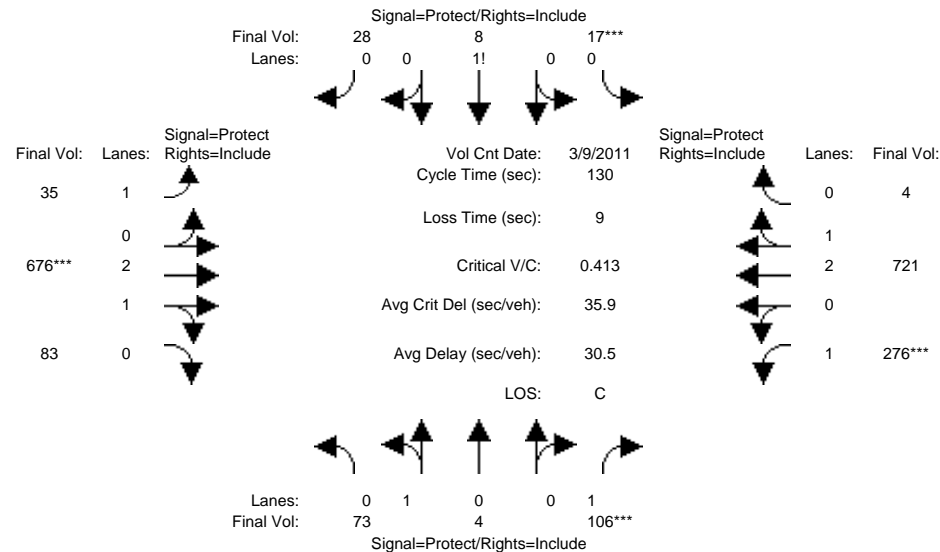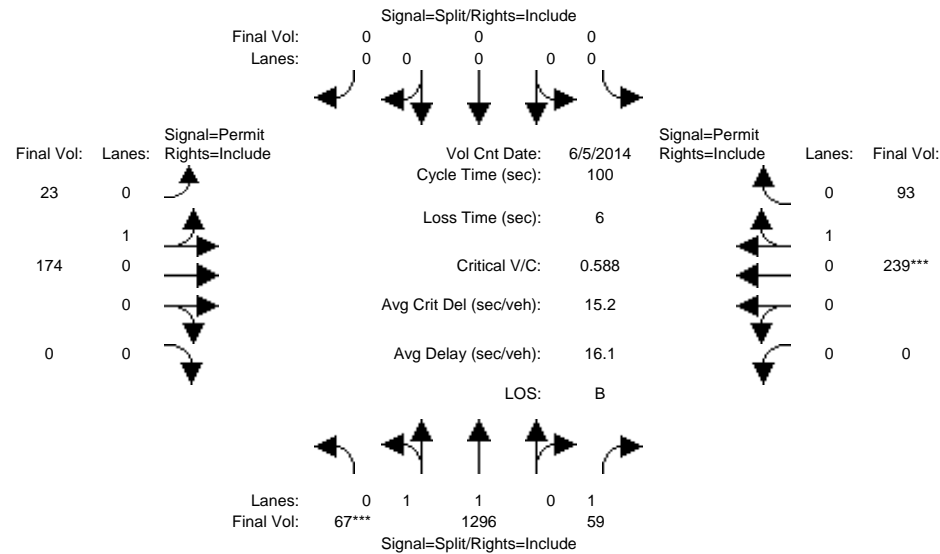Intersection #3220: ADRIAN/STORY

```
                              Signal=Protect/Rights=Include
                     Final Vol:    28        8        17***
                     Lanes:     0   0    1!    0   0


Final Vol:  Lanes:  Signal=Protect           Vol Cnt Date:  3/9/2011   Signal=Protect    Lanes:  Final Vol:
                    Rights=Include            Cycle Time (sec):  130    Rights=Include
   35       1                                                                             0        4
                                             Loss Time (sec):    9
            0                                                                             1
  676***    2                                Critical V/C:     0.413                      2       721
            1                                Avg Crit Del (sec/veh):  35.9                0
   83       0                                Avg Delay (sec/veh):   30.5                  1      276***
                                             LOS:              C

                     Lanes:     0   1    0    0   1
                     Final Vol:    73        4        106***
                              Signal=Protect/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|----------------||----------------||----------------||----------------|
Min. Green:   10   10   10     10   10   10      7   10   10      7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
-----------|----------------||----------------||----------------||----------------|
Volume Module: >> Count Date: 9 Mar 2011 << 5:00-6:00PM
Base Vol:     73    4  103     17    8   28     35  656   83    273  707    4
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:  73    4  103     17    8   28     35  656   83    273  707    4
Added Vol:     0    0    0      0    0    0      0    0    0      0    0    0
ATI:           0    0    3      0    0    0      0   20    0      3   14    0
Initial Fut:  73    4  106     17    8   28     35  676   83    276  721    4
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:   73    4  106     17    8   28     35  676   83    276  721    4
Reduct Vol:    0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:  73    4  106     17    8   28     35  676   83    276  721    4
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:  73    4  106     17    8   28     35  676   83    276  721    4
-----------|----------------||----------------||----------------||----------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.95 0.95 0.92   0.92 0.92 0.92   0.92 0.99 0.95   0.92 0.98 0.95
Lanes:      0.95 0.05 1.00   0.32 0.15 0.53   1.00 2.66 0.34   1.00 2.98 0.02
Final Sat.: 1706   94 1750    561  264  925   1750 4987  612   1750 5569   31
-----------|----------------||----------------||----------------||----------------|
Capacity Analysis Module:
Vol/Sat:    0.04 0.04 0.06   0.03 0.03 0.03   0.02 0.14 0.14   0.16 0.13 0.13
Crit Moves:      ****  ****  ****                   ****       ****
Green Time: 14.5 19.0 19.0   10.0 14.5 14.5   27.0 42.5 42.5   49.5 65.0 65.0
Volume/Cap: 0.38 0.29 0.41   0.39 0.27 0.27   0.10 0.41 0.41   0.41 0.26 0.26
Delay/Veh:  54.8 50.1 51.5   59.0 53.7 53.7   41.7 34.2 34.2   30.0 18.7 18.7
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 54.8 50.1 51.5   59.0 53.7 53.7   41.7 34.2 34.2   30.0 18.7 18.7
LOS by Move:  D-    D   D-     E+    D-   D-     D   C-   C-      C   B-   B-
HCM2kAvgQ:     3    3    4      3    2    2      1    8    8      9    5    5
Note: Queue reported is the number of cars per lane.
```

City of San Jose
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

Intersection #3254: ALMADEN/WILLOW

Signal=Split/Rights=Include
```
                 Final Vol:      0        0           0
                 Lanes:      0    0        0        0    0
```

```
                 Signal=Permit                                           Signal=Permit
Final Vol:  Lanes:  Rights=Include      Vol Cnt Date:   6/5/2014    Rights=Include  Lanes:  Final Vol:
                                        Cycle Time (sec):    100
   23      0                                                                      0         93

           1                            Loss Time (sec):       6                  1

  174      0                            Critical V/C:      0.588                  0        239***

           0                            Avg Crit Del (sec/veh):  15.2             0

    0      0                            Avg Delay (sec/veh):    16.1              0          0

                                        LOS:                     B
```

```
                 Lanes:          0    1        1        0    1
                 Final Vol:    67***          1296          59
```
Signal=Split/Rights=Include

```
Approach:      North Bound      South Bound       East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R     L  -  T  -  R    L  -  T  -  R
-----------|----------------||----------------||----------------||---------------|
Min. Green:   10   10   10     0    0    0      10   10    0      0   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
-----------|----------------||----------------||----------------||---------------|
Volume Module: >> Count Date: 5 Jun 2014 << 7:45-8:45
Base Vol:     67 1296   59     0    0    0      23  174    0      0  239   93
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:  67 1296   59     0    0    0      23  174    0      0  239   93
Added Vol:     0    0    0     0    0    0       0    0    0      0    0    0
ATI:           0    0    0     0    0    0       0    0    0      0    0    0
Initial Fut:  67 1296   59     0    0    0      23  174    0      0  239   93
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:   67 1296   59     0    0    0      23  174    0      0  239   93
Reduct Vol:    0    0    0     0    0    0       0    0    0      0    0    0
Reduced Vol:  67 1296   59     0    0    0      23  174    0      0  239   93
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:  67 1296   59     0    0    0      23  174    0      0  239   93
-----------|----------------||----------------||----------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.95 0.98 0.92  0.92 1.00 0.92   0.95 0.95 0.92   0.92 0.95 0.95
Lanes:      0.10 1.90 1.00  0.00 0.00 0.00   0.12 0.88 0.00   0.00 0.72 0.28
Final Sat.:  182 3518 1750     0    0    0     210 1590    0      0 1296  504
-----------|----------------||----------------||----------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.37 0.37 0.03  0.00 0.00 0.00   0.11 0.11 0.00   0.00 0.18 0.18
Crit Moves:  ****                             ****
Green Time: 62.6 62.6 62.6   0.0  0.0  0.0   31.4 31.4  0.0    0.0 31.4 31.4
Volume/Cap: 0.59 0.59 0.05  0.00 0.00 0.00   0.35 0.35 0.00   0.00 0.59 0.59
Delay/Veh:  11.4 11.4  7.2   0.0  0.0  0.0   26.8 26.8  0.0    0.0 30.5 30.5
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 11.4 11.4  7.2   0.0  0.0  0.0   26.8 26.8  0.0    0.0 30.5 30.5
LOS by Move:  B+   B+    A     A    A    A      C    C    A      A    C    C
HCM2kAvgQ:    13   13    1     0    0    0       5    5    0      0   10   10
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
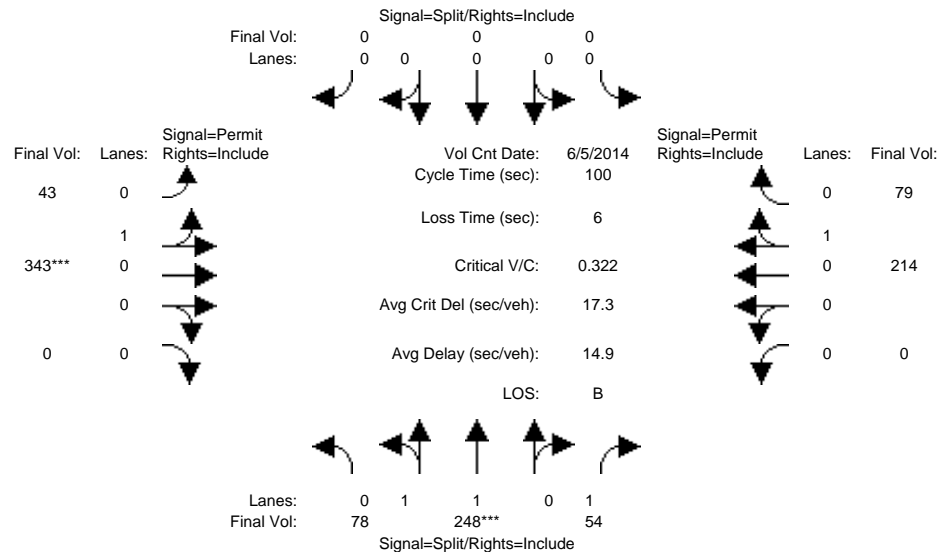Existing (PM)

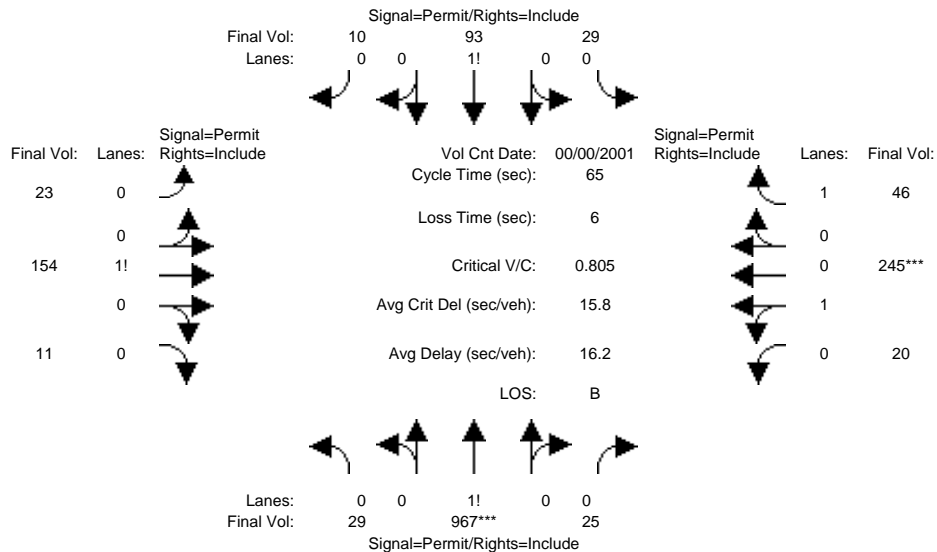Intersection #3254: ALMADEN/WILLOW

```
                              Signal=Split/Rights=Include
                    Final Vol:      0        0         0
                    Lanes:        0   0      0       0   0

                                              Vol Cnt Date:    6/5/2014
  Final Vol:  Lanes:  Signal=Permit                            Signal=Permit   Lanes:  Final Vol:
                      Rights=Include           Cycle Time (sec):   100         Rights=Include

     43       0                                                                    0        79
                                              Loss Time (sec):     6
              1                                                                    1

    343***    0                               Critical V/C:      0.322            0       214

              0                               Avg Crit Del (sec/veh):  17.3       0

      0       0                               Avg Delay (sec/veh):  14.9          0        0

                                              LOS:                 B

                    Lanes:        0   1      1       0   1
                    Final Vol:      78       248***        54
                              Signal=Split/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10     0    0    0    10   10    0     0   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 5 Jun 2014 << 5:00-6:00
Base Vol:     78  248   54     0    0    0    43  343    0     0  214   79
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  78  248   54     0    0    0    43  343    0     0  214   79
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:  78  248   54     0    0    0    43  343    0     0  214   79
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   78  248   54     0    0    0    43  343    0     0  214   79
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  78  248   54     0    0    0    43  343    0     0  214   79
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  78  248   54     0    0    0    43  343    0     0  214   79
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.95 0.98 0.92  0.92 1.00 0.92  0.95 0.95 0.92  0.92 0.95 0.95
Lanes:      0.49 1.51 1.00  0.00 0.00 0.00  0.11 0.89 0.00  0.00 0.73 0.27
Final Sat.:  885 2814 1750     0    0    0   201 1599    0     0 1315  485
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.09 0.09 0.03  0.00 0.00 0.00  0.21 0.21 0.00  0.00 0.16 0.16
Crit Moves:      ****                            ****
Green Time: 27.4 27.4 27.4   0.0  0.0  0.0  66.6 66.6  0.0   0.0 66.6 66.6
Volume/Cap: 0.32 0.32 0.11  0.00 0.00 0.00  0.32 0.32 0.00  0.00 0.24 0.24
Delay/Veh:  29.1 29.1 27.3   0.0  0.0  0.0   7.2  7.2  0.0   0.0  6.8  6.8
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 29.1 29.1 27.3   0.0  0.0  0.0   7.2  7.2  0.0   0.0  6.8  6.8
LOS by Move:   C    C    C     A    A    A     A    A    A     A    A    A
HCM2kAvgQ:     4    4    1     0    0    0     5    5    0     0    4    4
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

Intersection #3254: ALMADEN/WILLOW

```
                              Signal=Permit/Rights=Include
              Final Vol:      10        93        29
              Lanes:      0    0        1!       0    0

                    ↰   ↰↓       ↓      ↱↓      ↱

 Final Vol:  Lanes:  Signal=Permit                              Signal=Permit
             Rights=Include          Vol Cnt Date:  00/00/2001  Rights=Include   Lanes:  Final Vol:
    23       0       ↱               Cycle Time (sec):   65                        1       46
                                                                                 ↱
             0       ↑↓                                                           0
   154       1!      →              Loss Time (sec):     6                        0       245***
                                                                                 ←
             0       ↓↱             Critical V/C:      0.805                      1
                                                                                 ↙↓
    11       0       ↰              Avg Crit Del (sec/veh):  15.8                 0       20
                     ↓
                                   Avg Delay (sec/veh):  16.2

                                   LOS:                 B

                    ↰   ↰↑      ↑      ↑↱      ↱

              Lanes:      0    0        1!       0    0
              Final Vol:      29       967***    25
                              Signal=Permit/Rights=Include
```

```
Approach:      North Bound      South Bound       East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R     L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     10   10   10     10   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date:  0  2001 << AM
Base Vol:     27  858   23    29   93   10     22  144   11     20  239   44
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:  27  858   23    29   93   10     22  144   11     20  239   44
Added Vol:     0    0    0     0    0    0      0    0    0      0    0    0
ATI:           2  109    2     0    0    0      1   10    0      0    6    2
Initial Fut:  29  967   25    29   93   10     23  154   11     20  245   46
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:   29  967   25    29   93   10     23  154   11     20  245   46
Reduct Vol:    0    0    0     0    0    0      0    0    0      0    0    0
Reduced Vol:  29  967   25    29   93   10     23  154   11     20  245   46
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:  29  967   25    29   93   10     23  154   11     20  245   46
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.92 0.92 0.92  0.92 0.92 0.92   0.92 0.92 0.92   0.95 0.95 0.92
Lanes:      0.03 0.95 0.02  0.22 0.70 0.08   0.12 0.82 0.06   0.08 0.92 1.00
Final Sat.:   50 1657   43   384 1233  133    214 1434  102    136 1664 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.58 0.58 0.58  0.08 0.08 0.08   0.11 0.11 0.11   0.15 0.15 0.03
Crit Moves:      ****                             ****
Green Time: 47.1 47.1 47.1  47.1 47.1 47.1   11.9 11.9 11.9   11.9 11.9 11.9
Volume/Cap: 0.80 0.80 0.80  0.10 0.10 0.10   0.59 0.59 0.59   0.80 0.80 0.14
Delay/Veh:   9.8  9.8  9.8   2.7  2.7  2.7   27.1 27.1 27.1   38.9 38.9 22.5
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:  9.8  9.8  9.8   2.7  2.7  2.7   27.1 27.1 27.1   38.9 38.9 22.5
LOS by Move:   A    A    A     A    A    A      C    C    C     D+   D+   C+
HCM2kAvgQ:    17   17   17     1    1    1      5    5    5      8    8    1
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

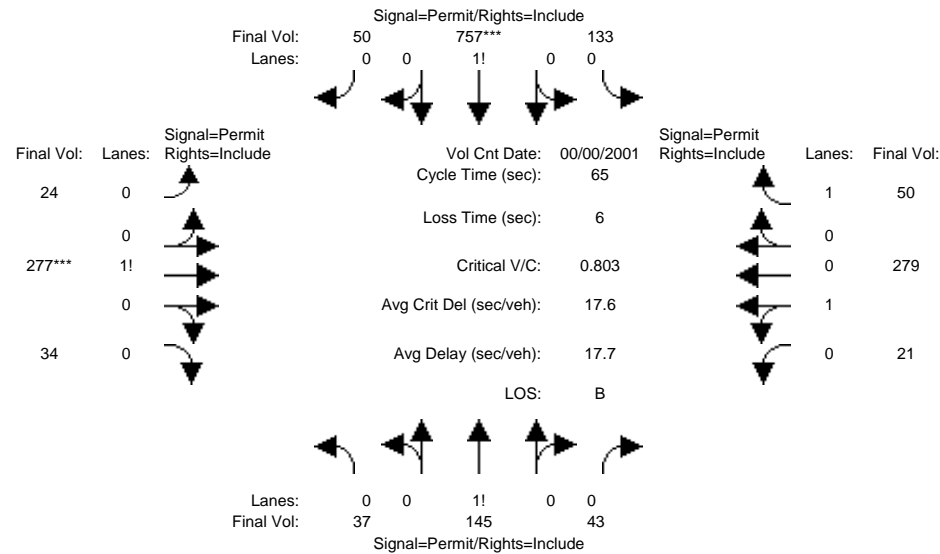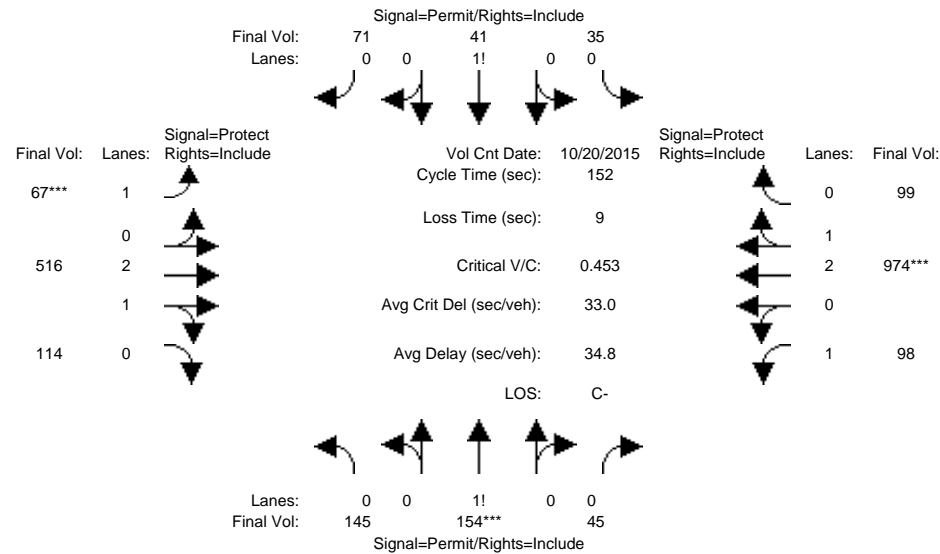## Intersection #3254: ALMADEN/WILLOW

Signal=Permit/Rights=Include

| | Final Vol: | 50 | 757*** | 133 |
| | Lanes: | 0 0 | 1! | 0 0 |

Final Vol:	Lanes:	Signal=Permit Rights=Include				Signal=Permit Rights=Include	Lanes:	Final Vol:
24	0		Vol Cnt Date:	00/00/2001			1	50
	0		Cycle Time (sec):	65			0	
277***	1!		Loss Time (sec):	6			0	279
	0		Critical V/C:	0.803			1	
34	0		Avg Crit Del (sec/veh):	17.6			0	21
			Avg Delay (sec/veh):	17.7				
			LOS:	B				

| | Lanes: | 0 0 | 1! | 0 0 |
| | Final Vol: | 37 | 145 | 43 |

Signal=Permit/Rights=Include

```
Approach:     North Bound     South Bound     East Bound      West Bound
Movement:    L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10  10  10     10  10  10      10  10  10      10  10  10
Y+R:         4.0 4.0 4.0    4.0 4.0 4.0     4.0 4.0 4.0     4.0 4.0 4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 0  2001 << PM
Base Vol:     35 131  41    131 720  43      23 263  33      20 249  41
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  35 131  41    131 720  43      23 263  33      20 249  41
Added Vol:     0   0   0      0   0   0       0   0   0       0   0   0
ATI:           2  14   2      2  37   7       1  14   1       1  30   9
Initial Fut:  37 145  43    133 757  50      24 277  34      21 279  50
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   37 145  43    133 757  50      24 277  34      21 279  50
Reduct Vol:    0   0   0      0   0   0       0   0   0       0   0   0
Reduced Vol:  37 145  43    133 757  50      24 277  34      21 279  50
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  37 145  43    133 757  50      24 277  34      21 279  50
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900 1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.92 0.92 0.92 0.92 0.92  0.92 0.92 0.92  0.95 0.95 0.92
Lanes:      0.16 0.65 0.19 0.14 0.81 0.05  0.07 0.83 0.10  0.07 0.93 1.00
Final Sat.:  288 1128 334   248 1409  93    125 1447 178    126 1674 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.13 0.13 0.13 0.54 0.54 0.54  0.19 0.19 0.19  0.17 0.17 0.03
Crit Moves:                 ****              ****
Green Time: 43.5 43.5 43.5 43.5 43.5 43.5  15.5 15.5 15.5  15.5 15.5 15.5
Volume/Cap: 0.19 0.19 0.19 0.80 0.80 0.80  0.80 0.80 0.80  0.70 0.70 0.12
Delay/Veh:   4.2  4.2  4.2 11.8 11.8 11.8  34.0 34.0 34.0  27.7 27.7 19.5
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  4.2  4.2  4.2 11.8 11.8 11.8  34.0 34.0 34.0  27.7 27.7 19.5
LOS by Move:   A   A    A   B+  B+   B+     C-  C-   C-      C   C   B-
HCM2kAvgQ:     2   2    2   17  17   17      9   9    9      7   7    1
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

Intersection #3278: BAL HARBOR/STORY

```
                              Signal=Permit/Rights=Include
             Final Vol:       71        41        35
             Lanes:        0   0        1!     0    0

                    ↙    ↙↓        ↓        ↓↘      ↘

Signal=Protect                                        Signal=Protect
Final Vol:  Lanes:  Rights=Include    Vol Cnt Date: 10/20/2015  Rights=Include  Lanes:  Final Vol:
                                      Cycle Time (sec):   152
67***        1    ↱                                                       0      99

             0    ↑                   Loss Time (sec):     9             1
516          2    →                                                      2    974***
                                      Critical V/C:      0.453
             1    →↓                                                     0
                                      Avg Crit Del (sec/veh):  33.0
114          0    ↘↓                                                     1      98
                                      Avg Delay (sec/veh):     34.8

                                      LOS:               C-

                    ↙    ↙↑        ↑        ↑↗      ↗

             Lanes:        0   0        1!     0    0
             Final Vol:   145       154***      45
                              Signal=Permit/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:    L  -  T  -  R     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10     10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 20 Oct 2015 << 7:20-8:20
Base Vol:    145  154   45     35   41   71    67  516  114    98  974   99
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 145  154   45     35   41   71    67  516  114    98  974   99
Added Vol:     0    0    0      0    0    0     0    0    0     0    0    0
ATI:           0    0    0      0    0    0     0    0    0     0    0    0
Initial Fut: 145  154   45     35   41   71    67  516  114    98  974   99
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  145  154   45     35   41   71    67  516  114    98  974   99
Reduct Vol:    0    0    0      0    0    0     0    0    0     0    0    0
Reduced Vol: 145  154   45     35   41   71    67  516  114    98  974   99
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 145  154   45     35   41   71    67  516  114    98  974   99
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.92 0.92   0.92 0.92 0.92  0.92 0.99 0.95  0.92 0.99 0.95
Lanes:      0.42 0.45 0.13   0.24 0.28 0.48  1.00 2.44 0.56  1.00 2.71 0.29
Final Sat.:  738  783  229    417  488  845  1750 4585 1013  1750 5083  517
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.20 0.20 0.20   0.08 0.08 0.08  0.04 0.11 0.11  0.06 0.19 0.19
Crit Moves:       ****                ****          ****          ****
Green Time: 65.9 65.9 65.9   65.9 65.9 65.9  12.8 51.5 51.5  25.6 64.3 64.3
Volume/Cap: 0.45 0.45 0.45   0.19 0.19 0.19  0.45 0.33 0.33  0.33 0.45 0.45
Delay/Veh:  30.8 30.8 30.8   26.7 26.7 26.7  68.4 37.6 37.6  56.3 31.5 31.5
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 30.8 30.8 30.8   26.7 26.7 26.7  68.4 37.6 37.6  56.3 31.5 31.5
LOS by Move:  C    C    C      C    C    C     E   D+   D+    E+    C    C
HCM2kAvgQ:    12   12   12      4    4    4     4    7    7     4   12   12
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
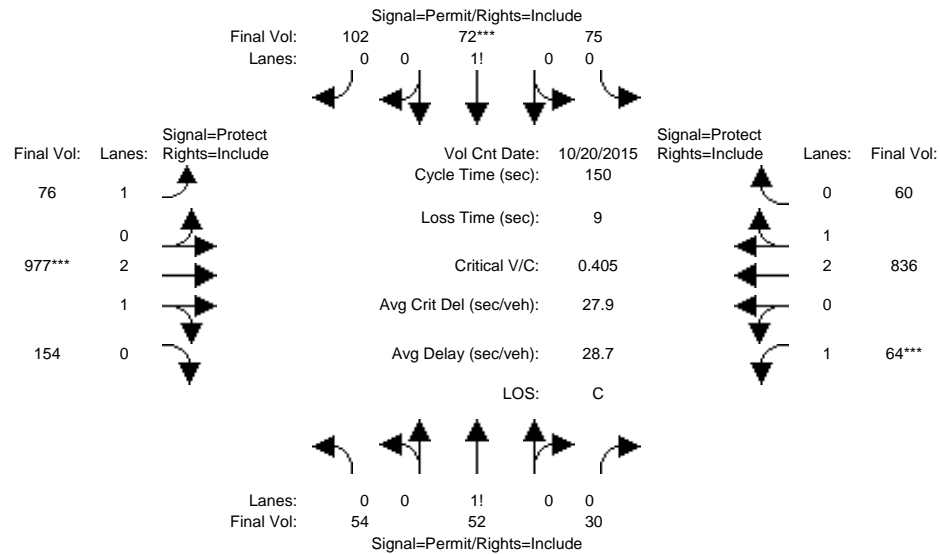Existing (PM)

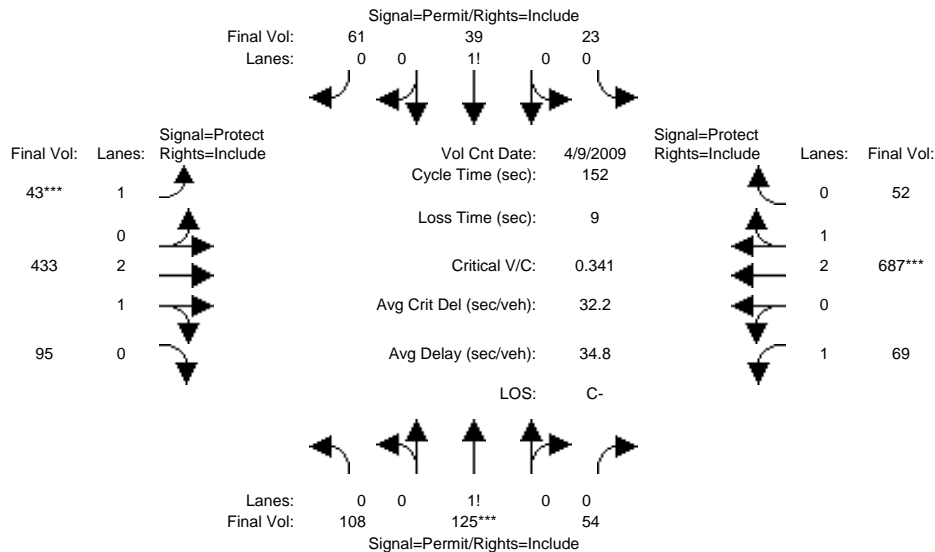### Intersection #3278: BAL HARBOR/STORY

```
                                    Signal=Permit/Rights=Include
                    Final Vol:    102        72***        75
                    Lanes:      0    0        1!        0    0

                Signal=Protect
Final Vol:  Lanes:  Rights=Include              Vol Cnt Date:  10/20/2015   Signal=Protect   Lanes:  Final Vol:
                                                Cycle Time (sec):    150     Rights=Include
  76        1                                                                               0        60

            0                                   Loss Time (sec):     9                      1

 977***     2                                   Critical V/C:      0.405                     2        836

            1                                   Avg Crit Del (sec/veh):  27.9               0

 154        0                                   Avg Delay (sec/veh):    28.7                1        64***

                                                LOS:               C

                    Lanes:      0    0        1!        0    0
                    Final Vol:    54          52          30
                                    Signal=Permit/Rights=Include
```

```
Approach:      North Bound        South Bound         East Bound          West Bound
Movement:     L  -  T  -  R      L  -  T  -  R       L  -  T  -  R       L  -  T  -  R
------------|----------------||-----------------||-----------------||-----------------|
Min. Green:   10   10   10     10   10   10       7   10   10        7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0     4.0  4.0  4.0      4.0  4.0  4.0
------------|----------------||-----------------||-----------------||-----------------|
Volume Module: >> Count Date: 20 Oct 2015 << 5:00-6:00
Base Vol:     54   52   30     75   72  102      76  977  154      64  836   60
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00    1.00 1.00 1.00    1.00 1.00 1.00
Initial Bse:  54   52   30     75   72  102      76  977  154      64  836   60
Added Vol:     0    0    0      0    0    0       0    0    0       0    0    0
ATI:           0    0    0      0    0    0       0    0    0       0    0    0
Initial Fut:  54   52   30     75   72  102      76  977  154      64  836   60
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00    1.00 1.00 1.00    1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00    1.00 1.00 1.00    1.00 1.00 1.00
PHF Volume:   54   52   30     75   72  102      76  977  154      64  836   60
Reduct Vol:    0    0    0      0    0    0       0    0    0       0    0    0
Reduced Vol:  54   52   30     75   72  102      76  977  154      64  836   60
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00    1.00 1.00 1.00    1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00    1.00 1.00 1.00    1.00 1.00 1.00
FinalVolume:  54   52   30     75   72  102      76  977  154      64  836   60
------------|----------------||-----------------||-----------------||-----------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900    1900 1900 1900    1900 1900 1900
Adjustment: 0.92 0.92 0.92   0.92 0.92 0.92    0.92 0.99 0.95    0.92 0.98 0.95
Lanes:      0.40 0.38 0.22   0.30 0.29 0.41    1.00 2.58 0.42    1.00 2.79 0.21
Final Sat.:  695  669  386    527  506  717    1750 4836  762    1750 5225  375
------------|----------------||-----------------||-----------------||-----------------|
Capacity Analysis Module:
Vol/Sat:    0.08 0.08 0.08   0.14 0.14 0.14    0.04 0.20 0.20    0.04 0.16 0.16
Crit Moves:                        ****                 ****              ****
Green Time: 52.7 52.7 52.7   52.7 52.7 52.7    19.9 74.8 74.8    13.5 68.4 68.4
Volume/Cap: 0.22 0.22 0.22   0.41 0.41 0.41    0.33 0.41 0.41    0.41 0.35 0.35
Delay/Veh:  34.4 34.4 34.4   37.2 37.2 37.2    59.8 23.7 23.7    66.1 26.5 26.5
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00    1.00 1.00 1.00    1.00 1.00 1.00
AdjDel/Veh: 34.4 34.4 34.4   37.2 37.2 37.2    59.8 23.7 23.7    66.1 26.5 26.5
LOS by Move:  C-   C-   C-     D+   D+   D+      E+    C    C       E    C    C
HCM2kAvgQ:     5    5    5      9    9    9       4   11   11       3    9    9
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

Intersection #3278: BAL HARBOR/STORY

```
                                  Signal=Permit/Rights=Include
                   Final Vol:      61        39        23
                   Lanes:        0    0     1!     0    0


         Signal=Protect                                        Signal=Protect
Final Vol: Lanes: Rights=Include       Vol Cnt Date: 4/9/2009  Rights=Include  Lanes: Final Vol:
                                       Cycle Time (sec):  152
  43***     1                                                                    0      52

            0                          Loss Time (sec):     9                    1

  433       2                          Critical V/C:    0.341                    2    687***

            1                          Avg Crit Del (sec/veh): 32.2              0

   95       0                          Avg Delay (sec/veh):  34.8                1      69

                                       LOS:              C-


                   Lanes:        0    0     1!     0    0
                   Final Vol:     108       125***    54
                                  Signal=Permit/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 9 Apr 2009 << 7:30-8:30AM
Base Vol:    108  125   51    23   39   61    43  427   95    68  675   52
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 108  125   51    23   39   61    43  427   95    68  675   52
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    3     0    0    0     0    0    6     0    1   12
Initial Fut: 108  125   54    23   39   61    43  433   95    69  687   52
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  108  125   54    23   39   61    43  433   95    69  687   52
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 108  125   54    23   39   61    43  433   95    69  687   52
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 108  125   54    23   39   61    43  433   95    69  687   52
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.92 0.92  0.92 0.92 0.92  0.92 0.99 0.95  0.92 0.99 0.95
Lanes:      0.38 0.43 0.19  0.19 0.32 0.49  1.00 2.44 0.56  1.00 2.78 0.22
Final Sat.:  659  762  329   327  555  868  1750 4591 1007  1750 5205  394
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.16 0.16 0.16  0.07 0.07 0.07  0.02 0.09 0.09  0.04 0.13 0.13
Crit Moves:      ****                 ****        ****             ****
Green Time: 73.2 73.2 73.2  73.2 73.2 73.2  11.0 46.9 46.9  22.9 58.9 58.9
Volume/Cap: 0.34 0.34 0.34  0.15 0.15 0.15  0.34 0.31 0.31  0.26 0.34 0.34
Delay/Veh:  24.7 24.7 24.7  22.1 22.1 22.1  68.7 40.2 40.2  57.6 33.0 33.0
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 24.7 24.7 24.7  22.1 22.1 22.1  68.7 40.2 40.2  57.6 33.0 33.0
LOS by Move:  C    C    C    C+   C+   C+     E    D    D    E+   C-   C-
HCM2kAvgQ:     9    9    9     3    3    3     2    6    6     3    8    8
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)
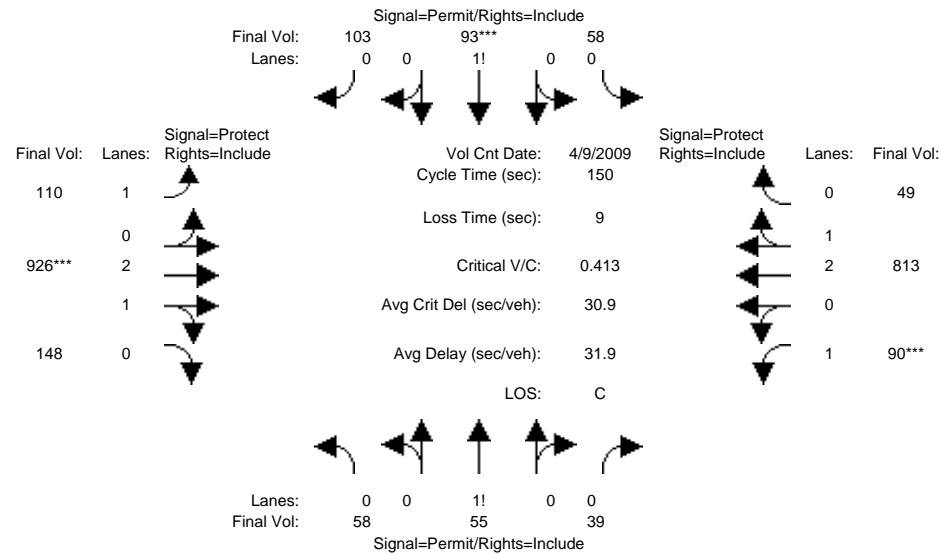
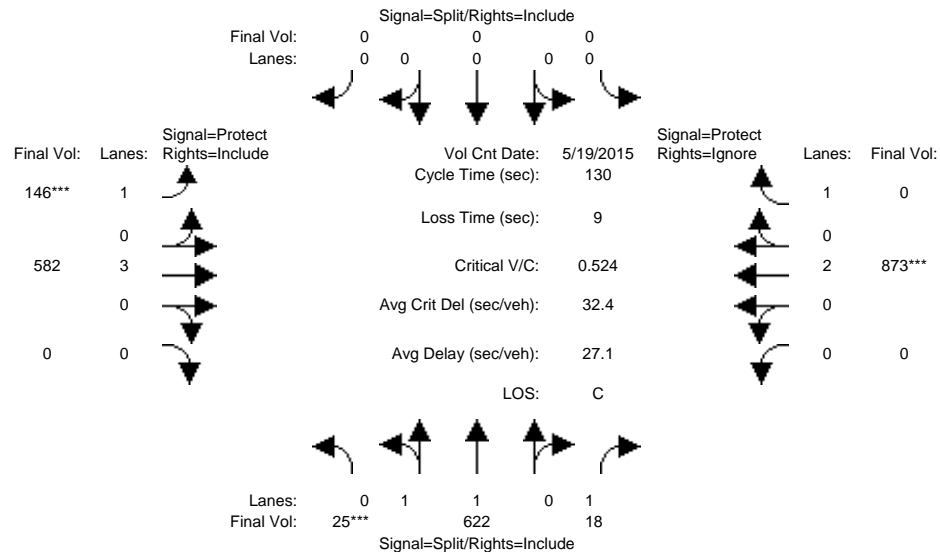## Intersection #3278: BAL HARBOR/STORY

```
                           Signal=Permit/Rights=Include
          Final Vol:     103          93***         58
          Lanes:        0    0        1!       0    0
```

```
             Signal=Protect                                    Signal=Protect
Final Vol: Lanes: Rights=Include        Vol Cnt Date:  4/9/2009  Rights=Include  Lanes: Final Vol:
                                        Cycle Time (sec):  150
  110      1                                                                      0        49

           0                            Loss Time (sec):   9                      1

  926***   2                            Critical V/C:     0.413                    2       813

           1                            Avg Crit Del (sec/veh): 30.9               0

  148      0                            Avg Delay (sec/veh):  31.9                 1       90***

                                        LOS:              C
```

```
          Lanes:        0    0        1!       0    0
          Final Vol:     58          55          39
                           Signal=Permit/Rights=Include
```

```
Approach:     North Bound      South Bound      East Bound      West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:  10   10   10    10   10   10     7   10   10     7   10   10
Y+R:        4.0  4.0  4.0   4.0  4.0  4.0    4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 9 Apr 2009 << 4:45-5:45PM
Base Vol:    58   55   33    57   93  103   110  914  148    83  807   48
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 58   55   33    57   93  103   110  914  148    83  807   48
Added Vol:    0    0    0     0    0    0     0    0    0     0    0    0
ATI:          0    0    6     1    0    0     0   12    0     7    6    1
Initial Fut: 58   55   39    58   93  103   110  926  148    90  813   49
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  58   55   39    58   93  103   110  926  148    90  813   49
Reduct Vol:   0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 58   55   39    58   93  103   110  926  148    90  813   49
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 58   55   39    58   93  103   110  926  148    90  813   49
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:  1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.92 0.92  0.92 0.92 0.92  0.92 0.99 0.95  0.92 0.98 0.95
Lanes:      0.38 0.36 0.26  0.23 0.37 0.40  1.00 2.57 0.43  1.00 2.82 0.18
Final Sat.:  668  633  449   400  641  710  1750 4827  772  1750 5281  318
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.09 0.09 0.09  0.15 0.15 0.15  0.06 0.19 0.19  0.05 0.15 0.15
Crit Moves:           ****                   ****            ****
Green Time: 52.7 52.7 52.7  52.7 52.7 52.7  25.6 69.6 69.6  18.7 62.7 62.7
Volume/Cap: 0.25 0.25 0.25  0.41 0.41 0.41  0.37 0.41 0.41  0.41 0.37 0.37
Delay/Veh:  34.8 34.8 34.8  37.4 37.4 37.4  55.8 26.7 26.7  61.9 30.1 30.1
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 34.8 34.8 34.8  37.4 37.4 37.4  55.8 26.7 26.7  61.9 30.1 30.1
LOS by Move: C-   C-   C-    D+   D+   D+    E+    C    C     E    C    C
HCM2kAvgQ:    5    5    5     9    9    9     5   11   11     4    9    9
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

Intersection #3472: 11TH/KEYES

Signal=Split/Rights=Include

| Final Vol: | 0 | 0 | 0 |
| Lanes: | 0 0 | 0 | 0 0 |

		Signal=Protect			Signal=Protect		
Final Vol:	Lanes:	Rights=Include	Vol Cnt Date:	5/19/2015	Rights=Ignore	Lanes:	Final Vol:
			Cycle Time (sec):	130			
146***	1					1	0
	0		Loss Time (sec):	9		0	
582	3		Critical V/C:	0.524		2	873***
	0		Avg Crit Del (sec/veh):	32.4		0	
0	0		Avg Delay (sec/veh):	27.1		0	0
			LOS:	C			

| Lanes: | 0 | 1 | 1 | 0 | 1 |
| Final Vol: | 25*** | | 622 | | 18 |

Signal=Split/Rights=Include

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	0	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 19 May 2015 << 7:30-8:30												
Base Vol:	25	622	18	0	0	0	146	582	0	0	873	1073
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	25	622	18	0	0	0	146	582	0	0	873	1073
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
ATI:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	25	622	18	0	0	0	146	582	0	0	873	1073
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	25	622	18	0	0	0	146	582	0	0	873	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	25	622	18	0	0	0	146	582	0	0	873	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	25	622	18	0	0	0	146	582	0	0	873	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.97	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.08	1.92	1.00	0.00	0.00	0.00	1.00	3.00	0.00	0.00	2.00	1.00
Final Sat.:	143	3557	1750	0	0	0	1750	5700	0	0	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.17	0.17	0.01	0.00	0.00	0.00	0.08	0.10	0.00	0.00	0.23	0.00
Crit Moves:	****						****				****	
Green Time:	43.4	43.4	43.4	0.0	0.0	0.0	20.7	77.6	0.0	0.0	57.0	0.0
Volume/Cap:	0.52	0.52	0.03	0.00	0.00	0.00	0.52	0.17	0.00	0.00	0.52	0.00
Delay/Veh:	35.4	35.4	29.2	0.0	0.0	0.0	52.0	11.8	0.0	0.0	26.9	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	35.4	35.4	29.2	0.0	0.0	0.0	52.0	11.8	0.0	0.0	26.9	0.0
LOS by Move:	D+	D+	C	A	A	A	D-	B+	A	A	C	A
HCM2kAvgQ:	11	11	1	0	0	0	6	3	0	0	13	0

Note: Queue reported is the number of cars per lane.

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
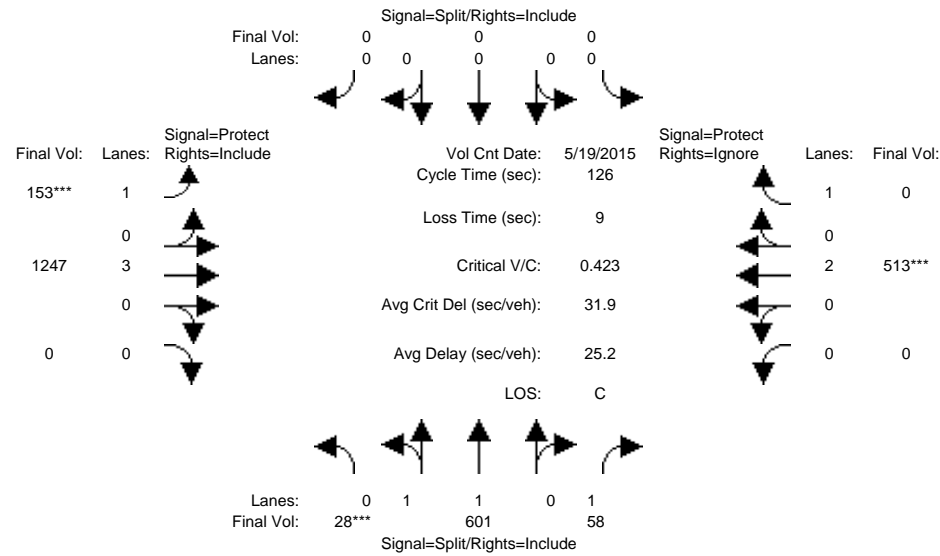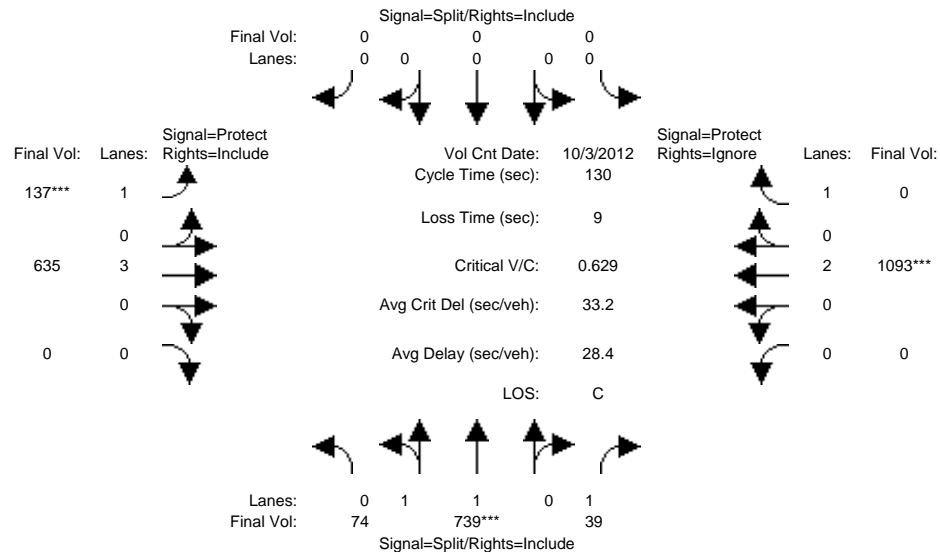Existing (PM)

Intersection #3472: 11TH/KEYES

```
                                Signal=Split/Rights=Include
               Final Vol:        0        0         0
               Lanes:         0    0     0    0    0

                              ↰  ↙↓     ↓    ↓↳    ↘

            Signal=Protect                                        Signal=Protect
Final Vol: Lanes: Rights=Include              Vol Cnt Date:  5/19/2015  Rights=Ignore   Lanes: Final Vol:
                                              Cycle Time (sec):   126
  153***    1      ↰                                                             1        0

            0          →                      Loss Time (sec):     9              0

  1247      3      →                          Critical V/C:      0.423            2      513***

            0          →                      Avg Crit Del (sec/veh):  31.9        0

   0        0      ↳                          Avg Delay (sec/veh):  25.2          0        0

                                              LOS:                C

                              ↰  ↙↑    ↑    ↑↳    ↘

               Lanes:         0    1     1    0    1
               Final Vol:  28***        601        58
                                Signal=Split/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:  10   10   10     0    0    0     7   10    0     0   10   10
Y+R:        4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 19 May 2015 << 4:30-5:30
Base Vol:    28  601   58     0    0    0   153 1247    0     0  513  771
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 28  601   58     0    0    0   153 1247    0     0  513  771
Added Vol:    0    0    0     0    0    0     0    0    0     0    0    0
ATI:          0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut: 28  601   58     0    0    0   153 1247    0     0  513  771
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 0.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 0.00
PHF Volume:  28  601   58     0    0    0   153 1247    0     0  513    0
Reduct Vol:   0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 28  601   58     0    0    0   153 1247    0     0  513    0
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 0.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 0.00
FinalVolume: 28  601   58     0    0    0   153 1247    0     0  513    0
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:  1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.95 0.97 0.92  0.92 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      0.09 1.91 1.00  0.00 0.00 0.00  1.00 3.00 0.00  0.00 2.00 1.00
Final Sat.:  165 3535 1750     0    0    0  1750 5700    0     0 3800 1750
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.17 0.17 0.03  0.00 0.00 0.00  0.09 0.22 0.00  0.00 0.14 0.00
Crit Moves: ****                            ****                  ****
Green Time: 50.7 50.7 50.7   0.0  0.0  0.0  26.1 66.3  0.0   0.0 40.2  0.0
Volume/Cap: 0.42 0.42 0.08  0.00 0.00 0.00  0.42 0.42 0.00  0.00 0.42 0.00
Delay/Veh:  27.3 27.3 23.3   0.0  0.0  0.0  44.2 18.2  0.0   0.0 34.0  0.0
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 27.3 27.3 23.3   0.0  0.0  0.0  44.2 18.2  0.0   0.0 34.0  0.0
LOS by Move:  C    C    C     A    A    A     D   B-    A     A   C-    A
HCM2kAvgQ:    9    9    1     0    0    0     6   10    0     0    8    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

Intersection #3472: 11TH/KEYES

Signal=Split/Rights=Include

Final Vol:	0 0 0	
Lanes:	0 0 0 0 0	

	Signal=Protect		Signal=Protect	
Final Vol:	Lanes:	Rights=Include	Rights=Ignore	Lanes: Final Vol:
		Vol Cnt Date:	10/3/2012	
137***	1	Cycle Time (sec):	130	1 0
	0	Loss Time (sec):	9	0
635	3	Critical V/C:	0.629	2 1093***
	0	Avg Crit Del (sec/veh):	33.2	0
0	0	Avg Delay (sec/veh):	28.4	0 0
		LOS:	C	

Lanes:	0 1 1 0 1	
Final Vol:	74 739*** 39	

Signal=Split/Rights=Include

```
Approach:      North Bound     South Bound      East Bound      West Bound
Movement:     L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    0    0    0    7   10    0    0   10   10
Y+R:         4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Oct 2012 << 7:30-8:30AM
Base Vol:     49  660   21    0    0    0  120  506    0    0 1009 1117
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:  49  660   21    0    0    0  120  506    0    0 1009 1117
Added Vol:     0    0    0    0    0    0    0    0    0    0    0    0
ATI:          25   79   18    0    0    0   17  129    0    0   84   40
Initial Fut:  74  739   39    0    0    0  137  635    0    0 1093 1157
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00
PHF Volume:   74  739   39    0    0    0  137  635    0    0 1093    0
Reduct Vol:    0    0    0    0    0    0    0    0    0    0    0    0
Reduced Vol:  74  739   39    0    0    0  137  635    0    0 1093    0
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00
FinalVolume:  74  739   39    0    0    0  137  635    0    0 1093    0
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900
Adjustment: 0.95 0.98 0.92 0.92 1.00 0.92 0.92 1.00 0.92 0.92 1.00 0.92
Lanes:      0.19 1.81 1.00 0.00 0.00 0.00 1.00 3.00 0.00 0.00 2.00 1.00
Final Sat.:  337 3363 1750    0    0    0 1750 5700    0    0 3800 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.22 0.22 0.02 0.00 0.00 0.00 0.08 0.11 0.00 0.00 0.29 0.00
Crit Moves:      ****                           ****                 ****
Green Time: 45.4 45.4 45.4  0.0  0.0  0.0 16.2 75.6  0.0  0.0 59.4  0.0
Volume/Cap: 0.63 0.63 0.06 0.00 0.00 0.00 0.63 0.19 0.00 0.00 0.63 0.00
Delay/Veh:  36.3 36.3 28.2  0.0  0.0  0.0 59.9 12.8  0.0  0.0 27.6  0.0
User DelAdj:1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
AdjDel/Veh: 36.3 36.3 28.2  0.0  0.0  0.0 59.9 12.8  0.0  0.0 27.6  0.0
LOS by Move:  D+   D+    C    A    A    A   E+    B    A    A    C    A
HCM2kAvgQ:    14   14    1    0    0    0    7    4    0    0   17    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)
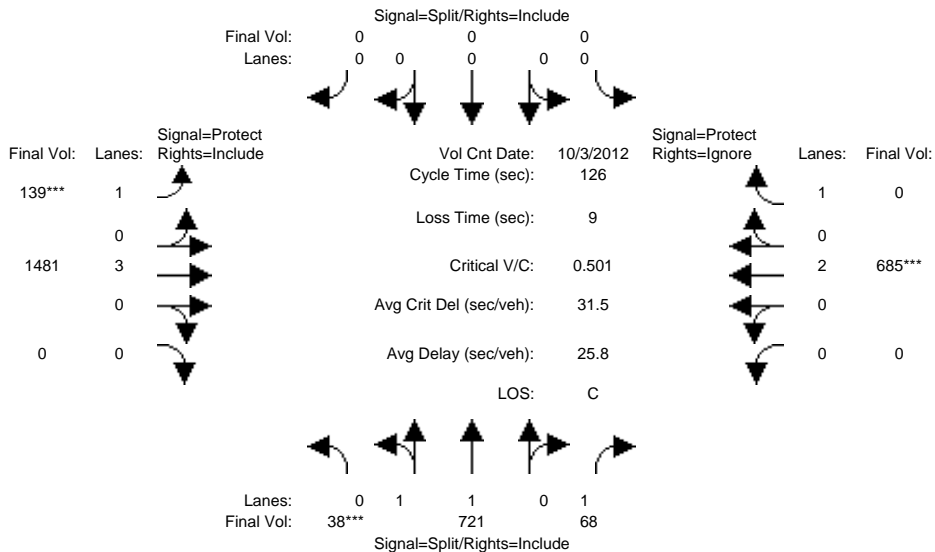
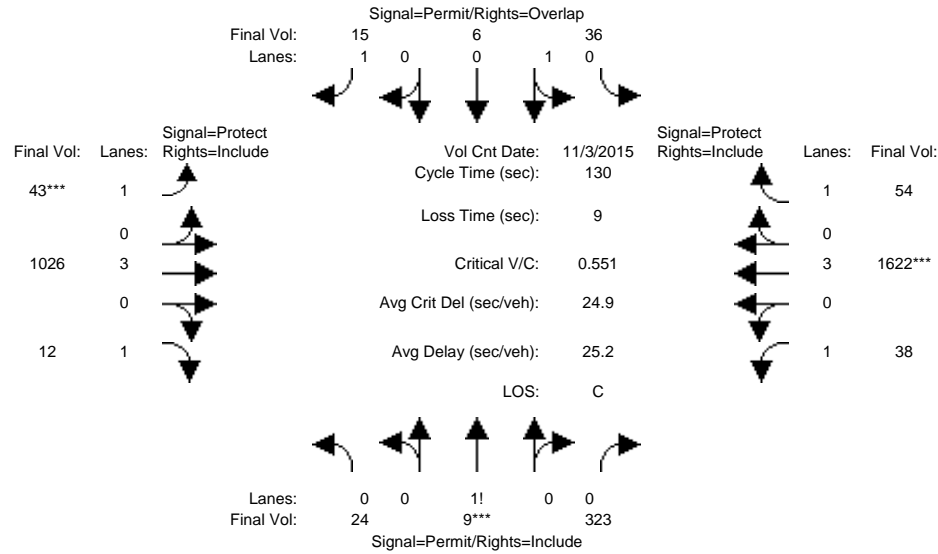## Intersection #3472: 11TH/KEYES

Signal=Split/Rights=Include

| | Final Vol: | 0 | 0 | 0 | |
| | Lanes: | 0 0 | 0 | 0 0 | |

		Signal=Protect Rights=Include			Signal=Protect Rights=Ignore		
Final Vol:	Lanes:		Vol Cnt Date:	10/3/2012		Lanes:	Final Vol:
139***	1		Cycle Time (sec):	126		1	0
	0		Loss Time (sec):	9		0	
1481	3		Critical V/C:	0.501		2	685***
	0		Avg Crit Del (sec/veh):	31.5		0	
0	0		Avg Delay (sec/veh):	25.8		0	0
			LOS:	C			

| | Lanes: | 0 1 | 1 | 0 1 | |
| | Final Vol: | 38*** | 721 | 68 | |

Signal=Split/Rights=Include

```
Approach:     North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:  10   10   10     0    0    0     7   10    0     0   10   10
Y+R:        4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Oct 2012 << 4:45-5:45PM
Base Vol:    36  603   52     0    0    0   115 1202    0     0  493  765
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 36  603   52     0    0    0   115 1202    0     0  493  765
Added Vol:    0    0    0     0    0    0     0    0    0     0    0    0
ATI:          2  118   16     0    0    0    24  279    0    24  192   67
Initial Fut: 38  721   68     0    0    0   139 1481    0     0  685  832
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 0.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 0.00
PHF Volume:  38  721   68     0    0    0   139 1481    0     0  685    0
Reduct Vol:   0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 38  721   68     0    0    0   139 1481    0     0  685    0
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 0.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 0.00
FinalVolume: 38  721   68     0    0    0   139 1481    0     0  685    0
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:  1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.95 0.98 0.92  0.92 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      0.10 1.90 1.00  0.00 0.00 0.00  1.00 3.00 0.00  0.00 2.00 1.00
Final Sat.:  185 3515 1750     0    0    0  1750 5700    0     0 3800 1750
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.21 0.21 0.04  0.00 0.00 0.00  0.08 0.26 0.00  0.00 0.18 0.00
Crit Moves: ****                              ****               ****
Green Time: 51.6 51.6 51.6   0.0  0.0  0.0  20.0 65.4  0.0   0.0 45.4  0.0
Volume/Cap: 0.50 0.50 0.09  0.00 0.00 0.00  0.50 0.50 0.00  0.00 0.50 0.00
Delay/Veh:  27.9 27.9 22.9   0.0  0.0  0.0  49.9 19.8  0.0   0.0 31.8  0.0
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 27.9 27.9 22.9   0.0  0.0  0.0  49.9 19.8  0.0   0.0 31.8  0.0
LOS by Move:  C    C    C+    A    A    A     D   B-    A     A    C    A
HCM2kAvgQ:   11   11    2     0    0    0     6   12    0     0   10    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

Intersection #3485: FELIPE/STORY

Signal=Permit/Rights=Overlap

| | Final Vol: | 15 | 6 | 36 |
| | Lanes: | 1 0 | 0 | 1 0 |

| Final Vol | Lanes: | Signal=Protect Rights=Include | | | | Signal=Protect Rights=Include | Lanes: | Final Vol: |

Vol Cnt Date: 11/3/2015
Cycle Time (sec): 130

43*** 1 ⤴ ↑ 1 54

0 0

Loss Time (sec): 9

1026 3 → ← 3 1622***

0 0

Critical V/C: 0.551

Avg Crit Del (sec/veh): 24.9

12 1 ↱ ↳ 1 38

Avg Delay (sec/veh): 25.2

LOS: C

| | Lanes: | 0 0 | 1! | 0 0 |
| | Final Vol: | 24 | 9*** | 323 |

Signal=Permit/Rights=Include

```
Approach:       North Bound      South Bound       East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|----------------||----------------||----------------||---------------|
Min. Green:   10   10   10     10   10   10      7   10   10      7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
-----------|----------------||----------------||----------------||---------------|
Volume Module: >> Count Date: 3 Nov 2015 << 7:20-8:20
Base Vol:     24    9  323     36    6   15     43 1026   12     38 1622   54
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:  24    9  323     36    6   15     43 1026   12     38 1622   54
Added Vol:     0    0    0      0    0    0      0    0    0      0    0    0
ATI:           0    0    0      0    0    0      0    0    0      0    0    0
Initial Fut:  24    9  323     36    6   15     43 1026   12     38 1622   54
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:   24    9  323     36    6   15     43 1026   12     38 1622   54
Reduct Vol:    0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:  24    9  323     36    6   15     43 1026   12     38 1622   54
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:  24    9  323     36    6   15     43 1026   12     38 1622   54
-----------|----------------||----------------||----------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.92 0.92 0.92   0.95 0.95 0.92   0.92 1.00 0.92   0.92 1.00 0.92
Lanes:      0.07 0.02 0.91   0.86 0.14 1.00   1.00 3.00 1.00   1.00 3.00 1.00
Final Sat.:  118   44 1588   1543  257 1750   1750 5700 1750   1750 5700 1750
-----------|----------------||----------------||----------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.20 0.20 0.20   0.02 0.02 0.01   0.02 0.18 0.01   0.02 0.28 0.03
Crit Moves:      ****                 ****                 ****
Green Time: 47.5 47.5 47.5   47.5 47.5 54.5    7.0 56.6 56.6   16.9 66.5 66.5
Volume/Cap: 0.56 0.56 0.56   0.06 0.06 0.02   0.46 0.41 0.02   0.17 0.56 0.06
Delay/Veh:  33.9 33.9 33.9   26.8 26.8 22.1   63.1 25.4 20.9   50.6 21.9 16.0
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 33.9 33.9 33.9   26.8 26.8 22.1   63.1 25.4 20.9   50.6 21.9 16.0
LOS by Move:  C-   C-   C-     C    C   C+      E    C   C+      D   C+    B
HCM2kAvgQ:    12   12   12      1    1    0      2    9    0      2   15    1
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (PM)

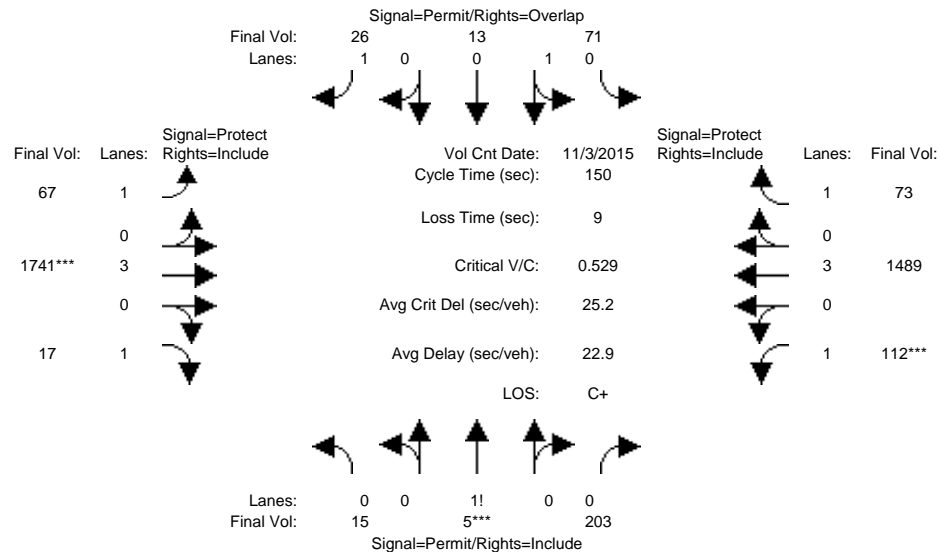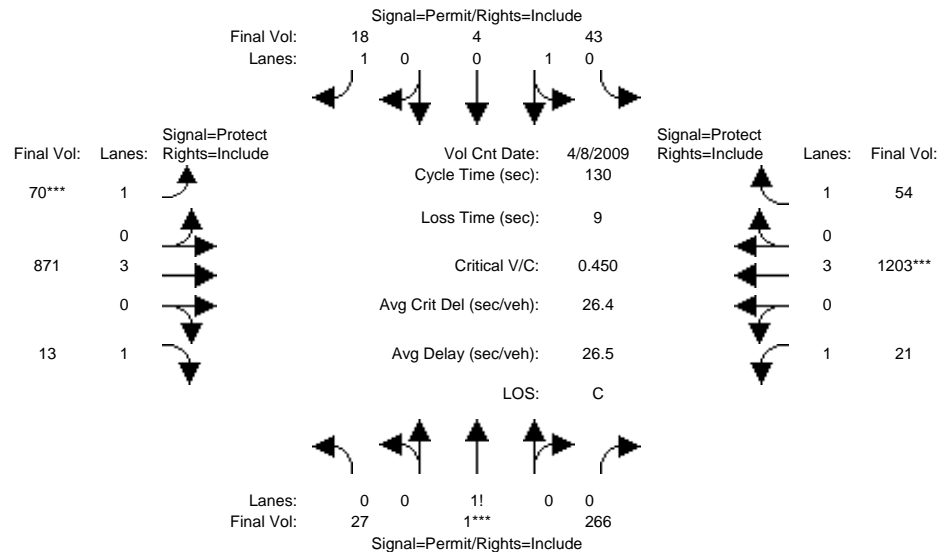## Intersection #3485: FELIPE/STORY

```
                              Signal=Permit/Rights=Overlap
            Final Vol:        26         13         71
            Lanes:         1    0      0      1    0

                                                         Signal=Protect
         Signal=Protect                                  Rights=Include    Lanes:  Final Vol:
Final Vol:  Lanes:  Rights=Include       Vol Cnt Date:  11/3/2015
                                         Cycle Time (sec):   150                     1      73
   67      1                                              
                                         Loss Time (sec):     9                     0
           0
                                                                                    3     1489
1741***    3                             Critical V/C:      0.529
                                                                                    0
           0                             Avg Crit Del (sec/veh):  25.2
                                                                                    1     112***
   17      1                             Avg Delay (sec/veh):  22.9

                                         LOS:              C+

                              Lanes:      0    0      1!     0    0
                              Final Vol:  15         5***        203
                              Signal=Permit/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
          ------------------||----------------||----------------||----------------|
Min. Green:   10   10   10     10   10   10      7   10   10      7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
          ------------------||----------------||----------------||----------------|
Volume Module: >> Count Date: 3 Nov 2015 << 4:55-5:55
Base Vol:      15    5  203     71   13   26     67 1741   17    112 1489   73
Growth Adj:  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   15    5  203     71   13   26     67 1741   17    112 1489   73
Added Vol:      0    0    0      0    0    0      0    0    0      0    0    0
ATI:            0    0    0      0    0    0      0    0    0      0    0    0
Initial Fut:   15    5  203     71   13   26     67 1741   17    112 1489   73
User Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    15    5  203     71   13   26     67 1741   17    112 1489   73
Reduct Vol:     0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:   15    5  203     71   13   26     67 1741   17    112 1489   73
PCE Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   15    5  203     71   13   26     67 1741   17    112 1489   73
          ------------------||----------------||----------------||----------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment:  0.92 0.92 0.92   0.95 0.95 0.92   0.92 1.00 0.92   0.92 1.00 0.92
Lanes:       0.07 0.02 0.91   0.85 0.15 1.00   1.00 3.00 1.00   1.00 3.00 1.00
Final Sat.:   118   39 1593   1521  279 1750   1750 5700 1750   1750 5700 1750
          ------------------||----------------||----------------||----------------|
Capacity Analysis Module:
Vol/Sat:     0.13 0.13 0.13   0.05 0.05 0.01   0.04 0.31 0.01   0.06 0.26 0.04
Crit Moves:       ****                              ****             ****
Green Time:  36.2 36.2 36.2   36.2 36.2 52.1   15.9 86.7 86.7   18.2 88.9 88.9
Volume/Cap:  0.53 0.53 0.53   0.19 0.19 0.04   0.36 0.53 0.02   0.53 0.44 0.07
Delay/Veh:   50.8 50.8 50.8   45.5 45.5 32.5   63.5 19.4 13.5   64.4 16.9 13.0
User DelAdj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:  50.8 50.8 50.8   45.5 45.5 32.5   63.5 19.4 13.5   64.4 16.9 13.0
LOS by Move:    D    D    D      D    D   C-      E   B-    B      E    B    B
HCM2kAvgQ:     10   10   10      3    3    1      3   16    0      6   12    1
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

Intersection #3485: FELIPE/STORY

```
                              Signal=Permit/Rights=Include
              Final Vol:        18        4        43
              Lanes:          1    0    0      1    0

                    Signal=Protect
Final Vol:  Lanes:  Rights=Include         Vol Cnt Date:  4/8/2009    Signal=Protect     Lanes:  Final Vol:
                                           Cycle Time (sec):   130    Rights=Include
70***        1                                                                            1        54

             0                             Loss Time (sec):      9    0

871          3                             Critical V/C:     0.450    3        1203***

             0                             Avg Crit Del (sec/veh):  26.4    0

13           1                             Avg Delay (sec/veh):  26.5    1        21

                                           LOS:                  C

              Lanes:           0    0    1!     0    0
              Final Vol:         27       1***       266
                              Signal=Permit/Rights=Include
```

```
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    10   10   10    10   10   10     7   10   10     7   10   10
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 8 Apr 2009 << 7:30-8:30AM
Base Vol:      27    1  266    43    4   18    70  871   13    21 1203   54
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:   27    1  266    43    4   18    70  871   13    21 1203   54
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:            0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:   27    1  266    43    4   18    70  871   13    21 1203   54
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:    27    1  266    43    4   18    70  871   13    21 1203   54
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:   27    1  266    43    4   18    70  871   13    21 1203   54
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:   27    1  266    43    4   18    70  871   13    21 1203   54
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.92 0.92 0.92  0.95 0.95 0.92  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:       0.09 0.01 0.90  0.91 0.09 1.00  1.00 3.00 1.00  1.00 3.00 1.00
Final Sat.:   161    6 1583  1647  153 1750  1750 5700 1750  1750 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.17 0.17 0.17  0.03 0.03 0.01  0.04 0.15 0.01  0.01 0.21 0.03
Crit Moves:       ****                 ****        ****                 ****
Green Time:  48.5 48.5 48.5  48.5 48.5 48.5  11.5 53.6 53.6  18.9 60.9 60.9
Volume/Cap:  0.45 0.45 0.45  0.07 0.07 0.03  0.45 0.37 0.02  0.08 0.45 0.07
Delay/Veh:   31.2 31.2 31.2  26.3 26.3 25.8  58.3 26.6 22.6  48.2 23.4 19.0
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  31.2 31.2 31.2  26.3 26.3 25.8  58.3 26.6 22.6  48.2 23.4 19.0
LOS by Move:   C    C    C     C    C    C    E+    C   C+     D    C   B-
HCM2kAvgQ:      9    9    9     1    1    0     3    8    0     1   11    1
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
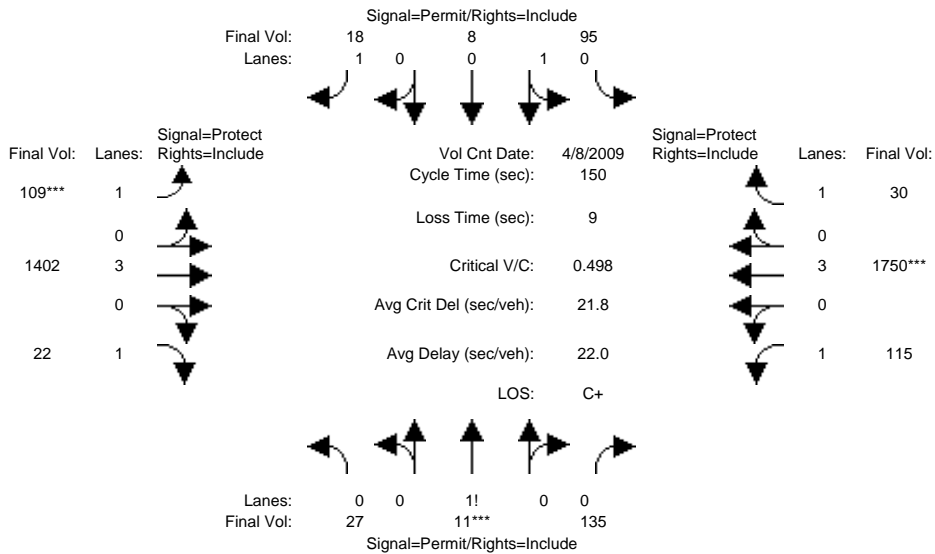Background (PM)

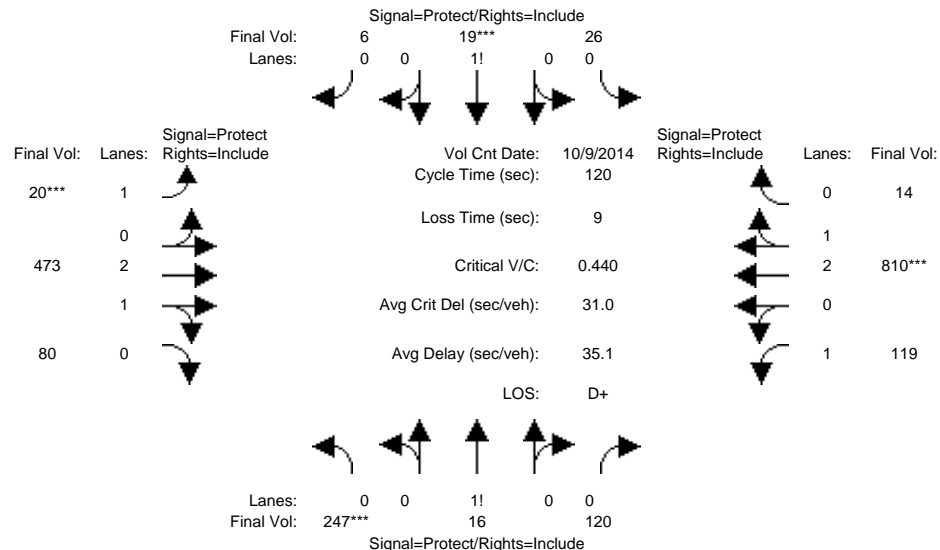## Intersection #3485: FELIPE/STORY

Signal=Permit/Rights=Include

```
             Final Vol:      18        8        95
             Lanes:       1    0    0    1    0
```

```
                 Signal=Protect
Final Vol: Lanes: Rights=Include           Vol Cnt Date:  4/8/2009      Signal=Protect    Lanes:  Final Vol:
                                           Cycle Time (sec):    150     Rights=Include

 109***    1                                                                        1       30

           0                               Loss Time (sec):     9
                                                                                    0
 1402      3                               Critical V/C:      0.498                  3      1750***

           0                               Avg Crit Del (sec/veh):  21.8            0

  22       1                               Avg Delay (sec/veh):    22.0             1       115

                                           LOS:             C+
```

```
             Lanes:        0    0    1!   0    0
             Final Vol:      27       11***      135
```

Signal=Permit/Rights=Include

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 8 Apr 2009 << 4:15-5:15PM
Base Vol:     27   11  135    95    8   18   109 1402   22   115 1750   30
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  27   11  135    95    8   18   109 1402   22   115 1750   30
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:  27   11  135    95    8   18   109 1402   22   115 1750   30
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   27   11  135    95    8   18   109 1402   22   115 1750   30
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  27   11  135    95    8   18   109 1402   22   115 1750   30
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  27   11  135    95    8   18   109 1402   22   115 1750   30
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.92 0.92  0.95 0.95 0.92  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      0.16 0.06 0.78  0.92 0.08 1.00  1.00 3.00 1.00  1.00 3.00 1.00
Final Sat.:  273  111 1366  1660  140 1750  1750 5700 1750  1750 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.10 0.10 0.10  0.06 0.06 0.01  0.06 0.25 0.01  0.07 0.31 0.02
Crit Moves:       ****                ****                ****
Green Time: 29.8 29.8 29.8  29.8 29.8 29.8  18.8 87.8 87.8  23.5 92.5 92.5
Volume/Cap: 0.50 0.50 0.50  0.29 0.29 0.05  0.50 0.42 0.02  0.42 0.50 0.03
Delay/Veh:  54.6 54.6 54.6  51.6 51.6 48.7  63.0 17.2 13.1  58.2 16.0 11.2
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 54.6 54.6 54.6  51.6 51.6 48.7  63.0 17.2 13.1  58.2 16.0 11.2
LOS by Move: D-   D-   D-    D-   D-    D     E    B    B    E+    B    B+
HCM2kAvgQ:     8    8    8     4    4    1     6   11    0     5   14    1
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

Intersection #3590: HOPKINS/STORY

Signal=Protect/Rights=Include

```
Final Vol:      6        19***        26
Lanes:      0    0        1!      0    0
```

```
                Signal=Protect                           Signal=Protect
Final Vol:  Lanes:  Rights=Include      Vol Cnt Date:   10/9/2014    Rights=Include   Lanes:  Final Vol:
                                        Cycle Time (sec):  120
20***       1                                                                        0       14

            0                           Loss Time (sec):     9                       1

473         2                           Critical V/C:     0.440                      2       810***

            1                           Avg Crit Del (sec/veh):  31.0                0

80          0                           Avg Delay (sec/veh):     35.1                1       119

                                        LOS:                D+
```

```
Lanes:      0    0        1!      0    0
Final Vol:      247***        16        120
```

Signal=Protect/Rights=Include

```
Approach:       North Bound     South Bound     East Bound      West Bound
Movement:      L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    10   10   10     10   10   10      7   10   10      7   10   10
Y+R:          4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 9 Oct 2014 << 7:30-8:30
Base Vol:      247   16  120     26   19    6     20  473   80    119  810   14
Growth Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   247   16  120     26   19    6     20  473   80    119  810   14
Added Vol:       0    0    0      0    0    0      0    0    0      0    0    0
ATI:             0    0    0      0    0    0      0    0    0      0    0    0
Initial Fut:   247   16  120     26   19    6     20  473   80    119  810   14
User Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    247   16  120     26   19    6     20  473   80    119  810   14
Reduct Vol:      0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:   247   16  120     26   19    6     20  473   80    119  810   14
PCE Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   247   16  120     26   19    6     20  473   80    119  810   14
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:     1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment:   0.92 0.92 0.92   0.92 0.92 0.92   0.92 0.92 0.92   0.92 0.98 0.95
Lanes:        0.65 0.04 0.31   0.51 0.37 0.12   1.00 2.55 0.45   1.00 2.95 0.05
Final Sat.:   1129   73  548    892  652  206   1750 4789  810   1750 5505   95
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:      0.22 0.22 0.22   0.03 0.03 0.03   0.01 0.10 0.10   0.07 0.15 0.15
Crit Moves:   ****            ****             ****                   ****
Green Time:   56.2 48.0 48.0   18.3 10.0 10.0    7.0 26.5 26.5   18.3 37.8 37.8
Volume/Cap:   0.47 0.55 0.55   0.19 0.35 0.35   0.20 0.45 0.45   0.45 0.47 0.47
Delay/Veh:    22.1 28.6 28.6   44.8 53.4 53.4   54.8 40.7 40.7   47.5 33.2 33.2
User DelAdj:  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:   22.1 28.6 28.6   44.8 53.4 53.4   54.8 40.7 40.7   47.5 33.2 33.2
LOS by Move:   C+    C    C      D   D-   D-     D-    D    D      D   C-   C-
HCM2kAvgQ:      10   12   12      2    2    2      1    6    6      5    8    8
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
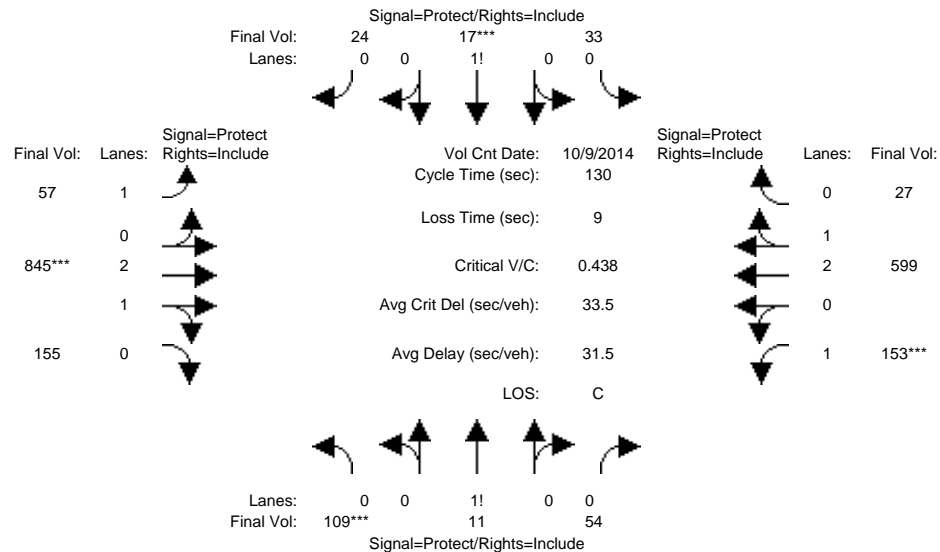Existing (PM)

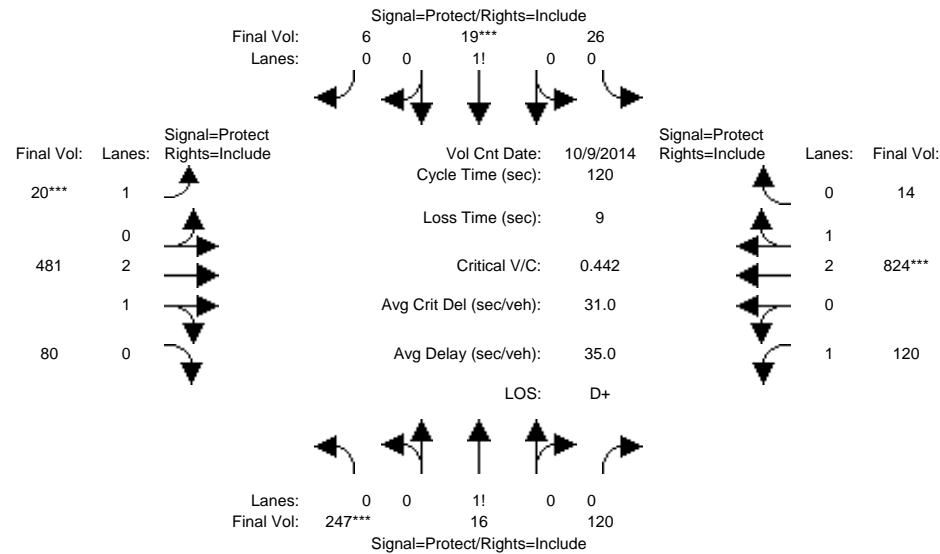Intersection #3590: HOPKINS/STORY

Signal=Protect/Rights=Include
Final Vol: 24   17***   33
Lanes: 0   0   1!   0   0

Final Vol: Lanes: Signal=Protect
                   Rights=Include   Signal=Protect
                                         Vol Cnt Date: 10/9/2014   Rights=Include   Lanes: Final Vol:
   57   1   Cycle Time (sec):   130   0   27

            0   Loss Time (sec):   9   1

  845***   2   Critical V/C: 0.438   2   599

            1   Avg Crit Del (sec/veh): 33.5   0

  155   0   Avg Delay (sec/veh): 31.5   1   153***

                                         LOS: C

Lanes: 0   0   1!   0   0
Final Vol: 109***   11   54
Signal=Protect/Rights=Include

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 9 Oct 2014 << 5:00-6:00
Base Vol:    109   11   54    33   17   24    57  845  155   153  599   27
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 109   11   54    33   17   24    57  845  155   153  599   27
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut: 109   11   54    33   17   24    57  845  155   153  599   27
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  109   11   54    33   17   24    57  845  155   153  599   27
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 109   11   54    33   17   24    57  845  155   153  599   27
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 109   11   54    33   17   24    57  845  155   153  599   27
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.92 0.92  0.92 0.92 0.92  0.92 0.92 0.92  0.92 0.98 0.95
Lanes:      0.63 0.06 0.31  0.45 0.23 0.32  1.00 2.52 0.48  1.00 2.87 0.13
Final Sat.: 1096  111  543   780  402  568  1750 4731  868  1750 5358  242
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.10 0.10 0.10  0.04 0.04 0.04  0.03 0.18 0.18  0.09 0.11 0.11
Crit Moves: ****              ****              ****              ****
Green Time: 29.5 23.7 23.7  18.3 12.5 12.5  25.7 53.0 53.0  25.9 53.3 53.3
Volume/Cap: 0.44 0.55 0.55  0.30 0.44 0.44  0.16 0.44 0.44  0.44 0.27 0.27
Delay/Veh:  43.9 50.2 50.2  50.8 57.2 57.2  43.5 27.9 27.9  46.5 25.6 25.6
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 43.9 50.2 50.2  50.8 57.2 57.2  43.5 27.9 27.9  46.5 25.6 25.6
LOS by Move:  D    D    D     D   E+   E+     D    C    C     D    C    C
HCM2kAvgQ:     7    7    7     3    3    3     2   10   10     6    5    5
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

Intersection #3590: HOPKINS/STORY

```
                              Signal=Protect/Rights=Include
              Final Vol:        6        19***        26
              Lanes:         0    0       1!       0    0

                   Signal=Protect
Final Vol:  Lanes: Rights=Include                              Signal=Protect
                                   Vol Cnt Date:  10/9/2014    Rights=Include   Lanes:  Final Vol:
20***        1                     Cycle Time (sec):   120                        0       14

             0                     Loss Time (sec):      9                        1

481          2                     Critical V/C:      0.442                       2      824***

             1                     Avg Crit Del (sec/veh):  31.0                  0

80           0                     Avg Delay (sec/veh):    35.0                   1       120

                                   LOS:                 D+

              Lanes:         0    0       1!       0    0
              Final Vol:     247***      16         120
                              Signal=Protect/Rights=Include
```

```
Approach:        North Bound       South Bound       East Bound        West Bound
Movement:      L  -  T  -  R     L  -  T  -  R     L  -  T  -  R     L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    10   10   10    10   10   10     7   10   10     7   10   10
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 9 Oct 2014 << 7:30-8:30AM
Base Vol:     247   16  120    26   19    6    20  473   80   119  810   14
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  247   16  120    26   19    6    20  473   80   119  810   14
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:            0    0    0     0    0    0     0    8    0     1   14    0
Initial Fut:  247   16  120    26   19    6    20  481   80   120  824   14
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   247   16  120    26   19    6    20  481   80   120  824   14
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  247   16  120    26   19    6    20  481   80   120  824   14
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  247   16  120    26   19    6    20  481   80   120  824   14
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.92 0.92 0.92  0.92 0.92 0.92  0.92 0.99 0.95  0.92 0.98 0.95
Lanes:       0.65 0.04 0.31  0.51 0.37 0.12  1.00 2.56 0.44  1.00 2.95 0.05
Final Sat.:  1129   73  548   892  652  206  1750 4800  798  1750 5506   94
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.22 0.22 0.22  0.03 0.03 0.03  0.01 0.10 0.10  0.07 0.15 0.15
Crit Moves:  ****               ****          ****                ****
Green Time:  55.8 47.7 47.7  18.2 10.0 10.0   7.0 26.8 26.8  18.4 38.2 38.2
Volume/Cap:  0.47 0.55 0.55  0.19 0.35 0.35  0.20 0.45 0.45  0.45 0.47 0.47
Delay/Veh:   22.4 28.9 28.9  44.9 53.4 53.4  54.8 40.5 40.5  47.4 33.0 33.0
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  22.4 28.9 28.9  44.9 53.4 53.4  54.8 40.5 40.5  47.4 33.0 33.0
LOS by Move:  C+    C    C     D    D-   D-    D-    D    D     D    C-   C-
HCM2kAvgQ:     10   12   12     2    2    2     1    6    6     5    8    8
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
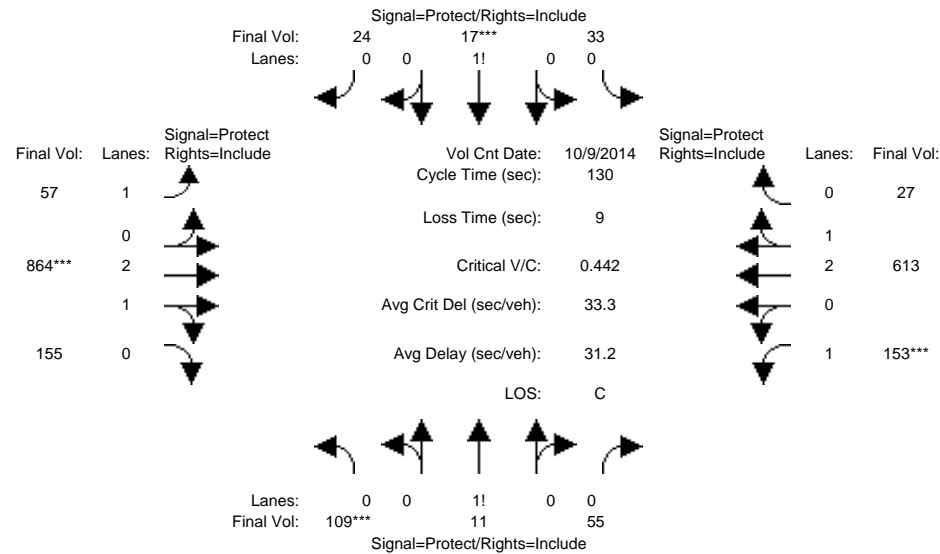Background (PM)

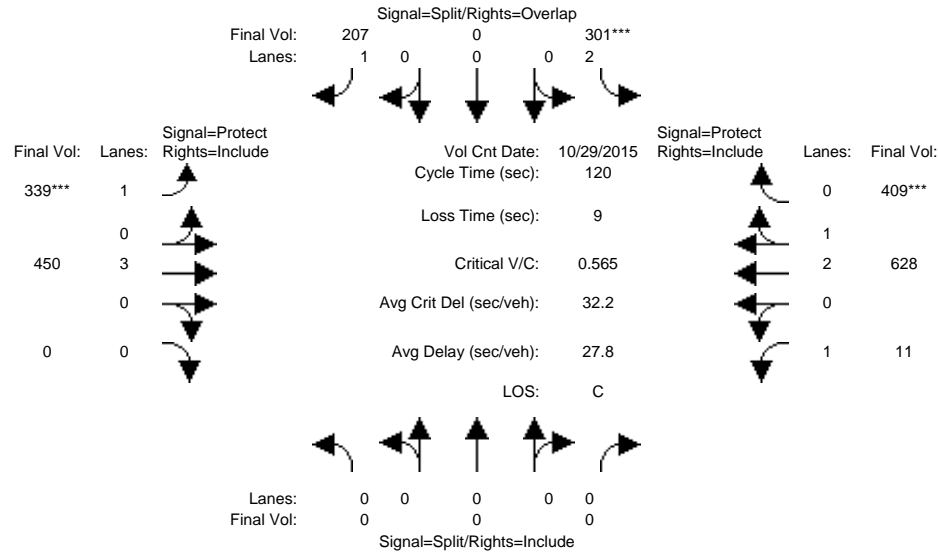## Intersection #3590: HOPKINS/STORY

Signal=Protect/Rights=Include

| Final Vol: | 24 | 17*** | 33 |
| Lanes: | 0   0 | 1! | 0   0 |

		Signal=Protect				Signal=Protect		
Final Vol:	Lanes:	Rights=Include		Vol Cnt Date:	10/9/2014	Rights=Include	Lanes:	Final Vol:
57	1			Cycle Time (sec):	130		0	27
	0			Loss Time (sec):	9		1	
864***	2			Critical V/C:	0.442		2	613
	1			Avg Crit Del (sec/veh):	33.3		0	
155	0			Avg Delay (sec/veh):	31.2		1	153***
				LOS:	C			

| Lanes: | 0   0 | 1! | 0   0 |
| Final Vol: | 109*** | 11 | 55 |

Signal=Protect/Rights=Include

```
Approach:      North Bound     South Bound      East Bound      West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 9 Oct 2014 << 5:00-6:00PM
Base Vol:    109   11   54    33   17   24    57  845  155   153  599   27
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 109   11   54    33   17   24    57  845  155   153  599   27
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    1     0    0    0     0   19    0     0   14    0
Initial Fut: 109   11   55    33   17   24    57  864  155   153  613   27
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  109   11   55    33   17   24    57  864  155   153  613   27
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 109   11   55    33   17   24    57  864  155   153  613   27
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 109   11   55    33   17   24    57  864  155   153  613   27
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.92 0.92  0.92 0.92 0.92  0.92 0.92 0.92  0.92 0.98 0.95
Lanes:      0.63 0.06 0.31  0.45 0.23 0.32  1.00 2.53 0.47  1.00 2.87 0.13
Final Sat.: 1090  110  550   780  402  568  1750 4747  852  1750 5363  236
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.10 0.10 0.10  0.04 0.04 0.04  0.03 0.18 0.18  0.09 0.11 0.11
Crit Moves: ****            ****            ****            ****
Green Time: 29.4 23.6 23.6  18.2 12.4 12.4  25.4 53.5 53.5  25.7 53.8 53.8
Volume/Cap: 0.44 0.55 0.55  0.30 0.44 0.44  0.17 0.44 0.44  0.44 0.28 0.28
Delay/Veh:  44.1 50.4 50.4  50.9 57.4 57.4  43.8 27.7 27.7  46.8 25.3 25.3
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 44.1 50.4 50.4  50.9 57.4 57.4  43.8 27.7 27.7  46.8 25.3 25.3
LOS by Move:  D    D    D     D   E+   E+     D    C    C     D    C    C
HCM2kAvgQ:    7    7    7     3    3    3     2   10   10     6    6    6
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

Intersection #3598: JACKSON/STORY

Signal=Split/Rights=Overlap

| | Final Vol: | 207 | 0 | 301*** |
| | Lanes: | 1 0 | 0 0 | 2 |

Final Vol:	Lanes:	Signal=Protect Rights=Include			Signal=Protect Rights=Include	Lanes:	Final Vol:
339***	1		Vol Cnt Date:	10/29/2015		0	409***
			Cycle Time (sec):	120			
	0					1	
450	3		Loss Time (sec):	9		2	628
	0		Critical V/C:	0.565		0	
0	0		Avg Crit Del (sec/veh):	32.2		1	11
			Avg Delay (sec/veh):	27.8			
			LOS:	C			

| | Lanes: | 0 0 | 0 0 | 0 |
| | Final Vol: | 0 | 0 | 0 |

Signal=Split/Rights=Include

```
Approach:     North Bound     South Bound     East Bound      West Bound
Movement:    L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   0    0    0    10    0   10     7   10    0     7   10   10
Y+R:        4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 29 Oct 2015 << 7:35-8:35
Base Vol:     0    0    0   301    0  207   339  450    0    11  628  409
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:  0    0    0   301    0  207   339  450    0    11  628  409
Added Vol:    0    0    0     0    0    0     0    0    0     0    0    0
ATI:          0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:  0    0    0   301    0  207   339  450    0    11  628  409
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   0    0    0   301    0  207   339  450    0    11  628  409
Reduct Vol:   0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  0    0    0   301    0  207   339  450    0    11  628  409
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume:  0    0    0   301    0  207   339  450    0    11  628  409
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:  1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900
Adjustment: 0.92 1.00 0.92 0.83 1.00 0.92 0.92 1.00 0.92 0.92 1.00 0.92
Lanes:     0.00 0.00 0.00 2.00 0.00 1.00 1.00 3.00 0.00 1.00 2.00 1.00
Final Sat.:   0    0    0  3150    0 1750 1750 5700    0  1750 3800 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:   0.00 0.00 0.00 0.10 0.00 0.12 0.19 0.08 0.00 0.01 0.17 0.23
Crit Moves:                 ****           ****                     ****
Green Time:  0.0  0.0  0.0 20.3  0.0 61.4 41.1 53.4  0.0 37.4 49.6 49.6
Volume/Cap: 0.00 0.00 0.00 0.57 0.00 0.23 0.57 0.18 0.00 0.02 0.40 0.57
Delay/Veh:   0.0  0.0  0.0 47.2  0.0 16.4 33.4 20.1  0.0 28.7 24.8 27.4
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
AdjDel/Veh:  0.0  0.0  0.0 47.2  0.0 16.4 33.4 20.1  0.0 28.7 24.8 27.4
LOS by Move:  A    A    A    D    A    B   C-   C+    A    C    C    C
HCM2kAvgQ:    0    0    0    7    0    4   11    3    0    0    8   13
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (PM)

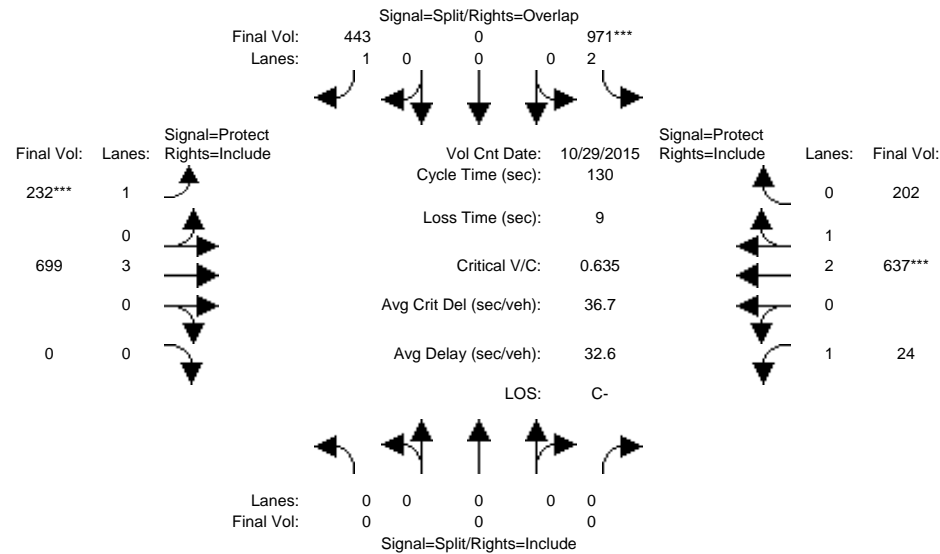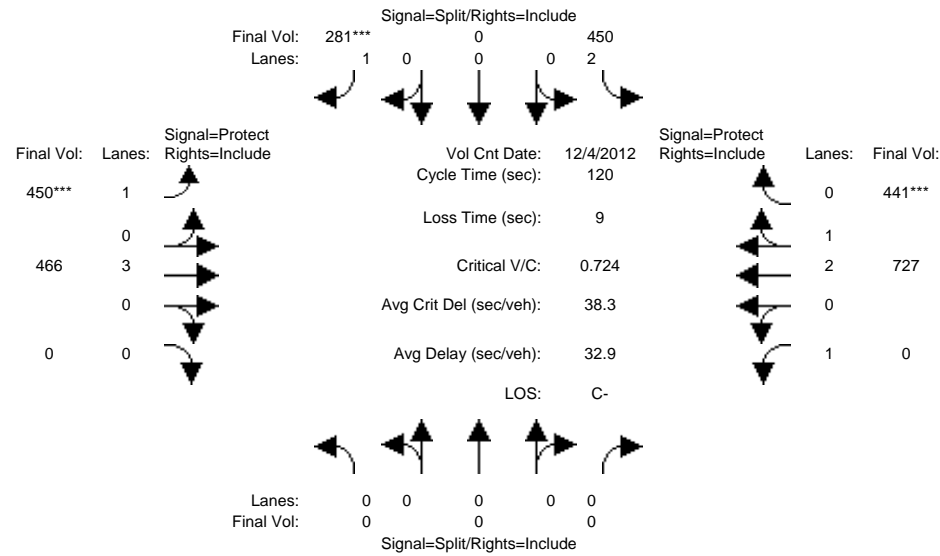Intersection #3598: JACKSON/STORY

```
                              Signal=Split/Rights=Overlap
                Final Vol:    443        0        971***
                Lanes:         1    0    0    0    2

                ↙    ↙↓    ↓    ↓↗    ↗

              Signal=Protect                        Signal=Protect
Final Vol: Lanes: Rights=Include   Vol Cnt Date: 10/29/2015  Rights=Include  Lanes: Final Vol:
                                   Cycle Time (sec):   130
  232***    1    ↰                                              ↰       0     202

            0    ↱                Loss Time (sec):      9       ↰       1

  699       3    →                                              ←       2     637***
                                  Critical V/C:      0.635
            0    ↘                                              ↰       0

                                  Avg Crit Del (sec/veh):  36.7
    0       0    ↩                                              ↓       1     24

                                  Avg Delay (sec/veh):     32.6

                                  LOS:                  C-

                ↙    ↖↑    ↑    ↑↗    ↗

                Lanes:         0    0    0    0    0
                Final Vol:     0         0        0
                              Signal=Split/Rights=Include
```

```
Approach:      North Bound       South Bound       East Bound        West Bound
Movement:    L  -  T  -  R     L  -  T  -  R     L  -  T  -  R     L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    0    0    0     10    0   10      7   10    0      7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 29 Oct 2015 << 4:50-5:50
Base Vol:      0    0    0    971    0  443    232  699    0     24  637  202
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   0    0    0    971    0  443    232  699    0     24  637  202
Added Vol:     0    0    0      0    0    0      0    0    0      0    0    0
ATI:           0    0    0      0    0    0      0    0    0      0    0    0
Initial Fut:   0    0    0    971    0  443    232  699    0     24  637  202
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    0    0    0    971    0  443    232  699    0     24  637  202
Reduct Vol:    0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:   0    0    0    971    0  443    232  699    0     24  637  202
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   0    0    0    971    0  443    232  699    0     24  637  202
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.92 1.00 0.92   0.83 1.00 0.92   0.92 1.00 0.92   0.92 0.99 0.95
Lanes:      0.00 0.00 0.00   2.00 0.00 1.00   1.00 3.00 0.00   1.00 2.25 0.75
Final Sat.:    0    0    0   3150    0 1750   1750 5700    0   1750 4250 1348
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.00 0.00 0.00   0.31 0.00 0.25   0.13 0.12 0.00   0.01 0.15 0.15
Crit Moves:                   ****               ****               ****
Green Time:  0.0  0.0  0.0   63.1  0.0 90.3   27.2 40.2  0.0   17.7 30.7 30.7
Volume/Cap: 0.00 0.00 0.00   0.63 0.00 0.36   0.63 0.63  0.00  0.10 0.63 0.63
Delay/Veh:   0.0  0.0  0.0   25.7  0.0  8.3   50.5 35.5  0.0   49.4 45.6 45.6
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:  0.0  0.0  0.0   25.7  0.0  8.3   50.5 35.5  0.0   49.4 45.6 45.6
LOS by Move:   A    A    A      C    A    A      D   D+    A      D    D    D
HCM2kAvgQ:     0    0    0     17    0    8     10    7    0      1   11   11
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

Intersection #3598: JACKSON/STORY

```
                                  Signal=Split/Rights=Include
             Final Vol:   281***         0            450
             Lanes:     1    0      0       0     2
```

```
                          Signal=Protect                     Signal=Protect
Final Vol:   Lanes:       Rights=Include      Vol Cnt Date:   12/4/2012    Rights=Include    Lanes:   Final Vol:
                                              Cycle Time (sec):   120
450***       1                                                                                0       441***

             0                                Loss Time (sec):    9                           1

466          3                                Critical V/C:       0.724                        2       727

             0                                Avg Crit Del (sec/veh):  38.3                    0

0            0                                Avg Delay (sec/veh):     32.9                     1       0

                                              LOS:                C-
```

```
             Lanes:       0    0      0      0     0
             Final Vol:       0           0            0
                                  Signal=Split/Rights=Include
```

```
Approach:       North Bound        South Bound        East Bound          West Bound
Movement:     L  -  T  -  R     L  -  T  -  R      L  -  T  -  R      L  -  T  -  R
------------|----------------||----------------||----------------||----------------|
Min. Green:    0    0    0     10    0    10      7   10    0      7   10    10
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0     4.0  4.0  4.0    4.0  4.0  4.0
------------|----------------||----------------||----------------||----------------|
Volume Module: >> Count Date: 4 Dec 2012 << 7:30-8:30am
Base Vol:      0    0    0    423    0   281    450  441    0      0  699   407
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   0    0    0    423    0   281    450  441    0      0  699   407
Added Vol:     0    0    0      0    0     0      0    0    0      0    0     0
ATI:           0    0    0     27    0     0      0   25    0      0   28    34
Initial Fut:   0    0    0    450    0   281    450  466    0      0  727   441
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    0    0    0    450    0   281    450  466    0      0  727   441
Reduct Vol:    0    0    0      0    0     0      0    0    0      0    0     0
Reduced Vol:   0    0    0    450    0   281    450  466    0      0  727   441
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   0    0    0    450    0   281    450  466    0      0  727   441
------------|----------------||----------------||----------------||----------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.92 1.00 0.92   0.83 1.00 0.92   0.92 1.00 0.92   0.92 1.00 0.92
Lanes:      0.00 0.00 0.00   2.00 0.00 1.00   1.00 3.00 0.00   1.00 2.00 1.00
Final Sat.:    0    0    0   3150    0  1750   1750 5700    0   1750 3800 1750
------------|----------------||----------------||----------------||----------------|
Capacity Analysis Module:
Vol/Sat:    0.00 0.00 0.00   0.14 0.00 0.16   0.26 0.08 0.00   0.00 0.19 0.25
Crit Moves:                            ****   ****                         ****
Green Time:  0.0  0.0  0.0   26.6  0.0 26.6   42.6 84.4  0.0    0.0 41.8 41.8
Volume/Cap: 0.00 0.00 0.00   0.64 0.00 0.72   0.72 0.12 0.00   0.00 0.55 0.72
Delay/Veh:   0.0  0.0  0.0   44.5  0.0 49.9   37.8  5.8  0.0    0.0 31.8 35.8
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:  0.0  0.0  0.0   44.5  0.0 49.9   37.8  5.8  0.0    0.0 31.8 35.8
LOS by Move:   A    A    A      D    A    D     D+    A    A      A    C   D+
HCM2kAvgQ:     0    0    0     10    0    12     17    2    0      0   11    16
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
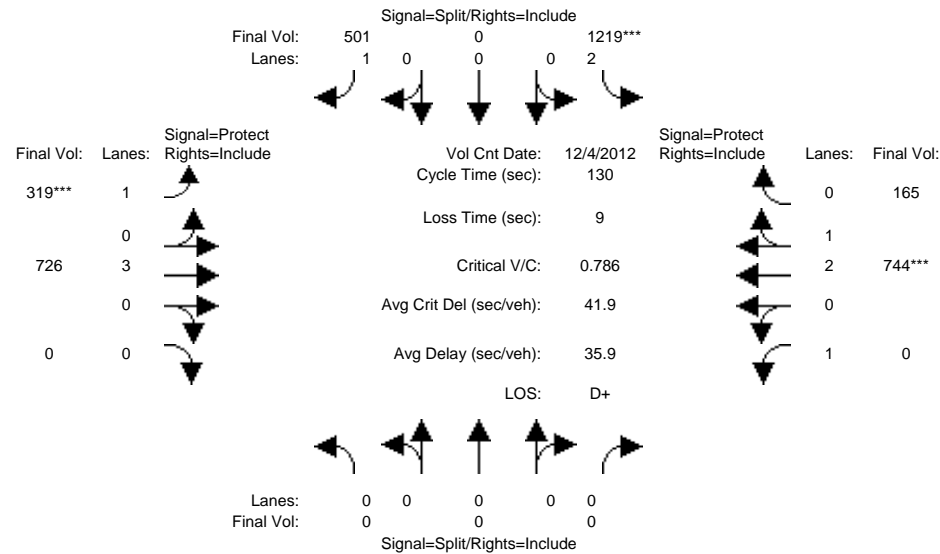Background (PM)

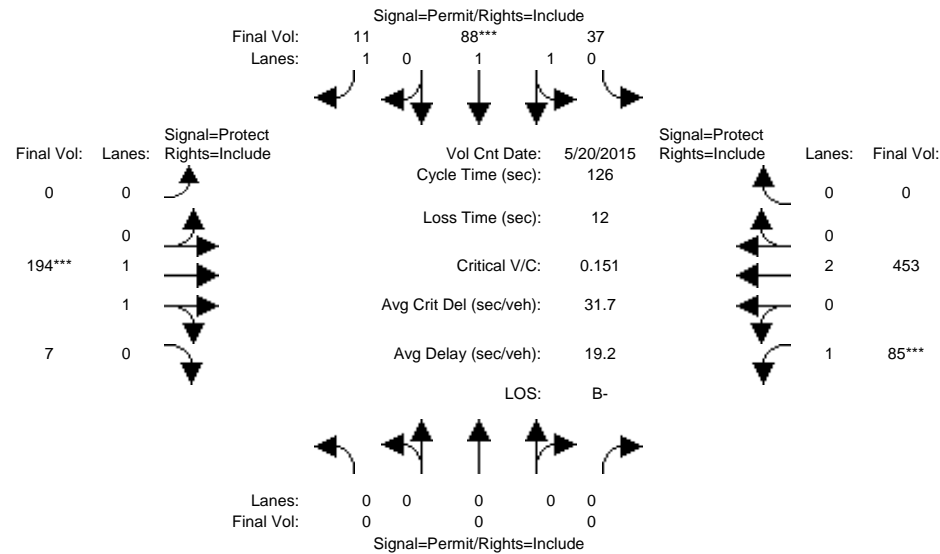## Intersection #3598: JACKSON/STORY

Signal=Split/Rights=Include

| Final Vol: | 501 | 0 | 1219*** |
| Lanes: | 1   0 | 0 | 0   2 |

		Signal=Protect			Signal=Protect		
Final Vol:	Lanes:	Rights=Include	Vol Cnt Date: 12/4/2012	Rights=Include	Lanes:	Final Vol:
319***	1		Cycle Time (sec): 130		0	165
	0		Loss Time (sec): 9		1	
726	3		Critical V/C: 0.786		2	744***
	0		Avg Crit Del (sec/veh): 41.9		0	
0	0		Avg Delay (sec/veh): 35.9		1	0
			LOS: D+			

Lanes: 0   0   0   0   0
Final Vol: 0   0   0

Signal=Split/Rights=Include

```
Approach:      North Bound     South Bound      East Bound      West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    0    0    0    10    0   10     7   10    0      7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 4 Dec 2012 << 5:00-6:00pm
Base Vol:      0    0    0  1184    0  501   319  697    0      0  719  149
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   0    0    0  1184    0  501   319  697    0      0  719  149
Added Vol:     0    0    0     0    0    0     0    0    0      0    0    0
ATI:           0    0    0    35    0    0     0   29    0      0   25   16
Initial Fut:   0    0    0  1219    0  501   319  726    0      0  744  165
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    0    0    0  1219    0  501   319  726    0      0  744  165
Reduct Vol:    0    0    0     0    0    0     0    0    0      0    0    0
Reduced Vol:   0    0    0  1219    0  501   319  726    0      0  744  165
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   0    0    0  1219    0  501   319  726    0      0  744  165
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900   1900 1900 1900
Adjustment: 0.92 1.00 0.92  0.83 1.00 0.92  0.92 1.00 0.92   0.92 0.99 0.95
Lanes:      0.00 0.00 0.00  2.00 0.00 1.00  1.00 3.00 0.00   1.00 2.44 0.56
Final Sat.:    0    0    0  3150    0 1750  1750 5700    0      0 4582 1016
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.00 0.00 0.00  0.39 0.00 0.29  0.18 0.13 0.00   0.00 0.16 0.16
Crit Moves:                 ****              ****                 ****
Green Time:  0.0  0.0  0.0  64.0  0.0 64.0  30.1 57.0  0.0    0.0 26.9 26.9
Volume/Cap: 0.00 0.00 0.00  0.79 0.00 0.58  0.79 0.29 0.00   0.00 0.79 0.79
Delay/Veh:   0.0  0.0  0.0  30.1  0.0 24.5  56.7 23.6  0.0    0.0 52.5 52.5
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:  0.0  0.0  0.0  30.1  0.0 24.5  56.7 23.6  0.0    0.0 52.5 52.5
LOS by Move:   A    A    A     C    A    C    E+    C    A      A   D-   D-
HCM2kAvgQ:     0    0    0    25    0   15    15    6    0      0   13   13
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

Intersection #3616: KEYES/SECOND

```
                              Signal=Permit/Rights=Include
              Final Vol:      11        88***       37
              Lanes:        1    0     1        1    0


Final Vol:  Lanes:  Signal=Protect                                   Signal=Protect   Lanes:  Final Vol:
                    Rights=Include      Vol Cnt Date:   5/20/2015     Rights=Include
                                        Cycle Time (sec):   126
   0          0                                                                          0         0

              0                         Loss Time (sec):    12                           0

 194***       1                         Critical V/C:      0.151                         2        453

              1                         Avg Crit Del (sec/veh):  31.7                    0

   7          0                         Avg Delay (sec/veh):  19.2                        1        85***

                                        LOS:                 B-


              Lanes:        0    0     0        0    0
              Final Vol:      0          0          0
                              Signal=Permit/Rights=Include
```

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	10	10	0	10	10	7	10	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module: >> Count Date: 20 May 2015 << 7:30-8:30

	L	T	R	L	T	R	L	T	R	L	T	R
Base Vol:	0	0	0	37	88	11	0	194	7	85	453	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	37	88	11	0	194	7	85	453	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
ATI:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	37	88	11	0	194	7	85	453	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	37	88	11	0	194	7	85	453	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	37	88	11	0	194	7	85	453	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	37	88	11	0	194	7	85	453	0

Saturation Flow Module:

	L	T	R	L	T	R	L	T	R	L	T	R
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.95	0.98	0.92	0.92	0.97	0.95	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	0.61	1.39	1.00	0.00	1.93	0.07	1.00	2.00	0.00
Final Sat.:	0	0	0	1095	2604	1750	0	3571	129	1750	3800	0

Capacity Analysis Module:

	L	T	R	L	T	R	L	T	R	L	T	R
Vol/Sat:	0.00	0.00	0.00	0.03	0.03	0.01	0.00	0.05	0.05	0.05	0.12	0.00
Crit Moves:				****				****		****		
Green Time:	0.0	0.0	0.0	28.2	28.2	28.2	0.0	45.3	45.3	40.5	85.8	0.0
Volume/Cap:	0.00	0.00	0.00	0.15	0.15	0.03	0.00	0.15	0.15	0.15	0.18	0.00
Delay/Veh:	0.0	0.0	0.0	39.4	39.4	38.2	0.0	27.4	27.4	30.6	7.3	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	39.4	39.4	38.2	0.0	27.4	27.4	30.6	7.3	0.0
LOS by Move:	A	A	A	D	D	D+	A	C	C	C	A	A
HCM2kAvgQ:	0	0	0	2	2	0	0	3	3	2	3	0

Note: Queue reported is the number of cars per lane.

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
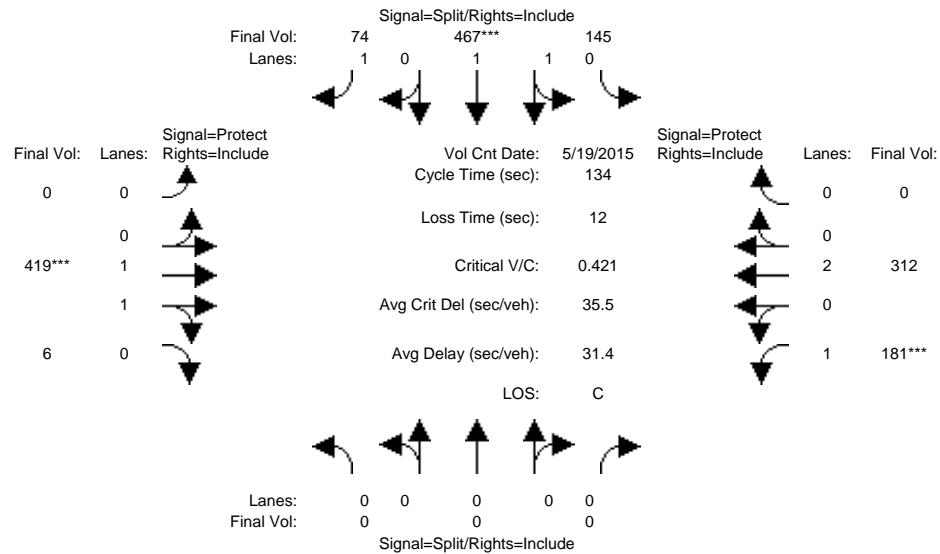Existing (PM)

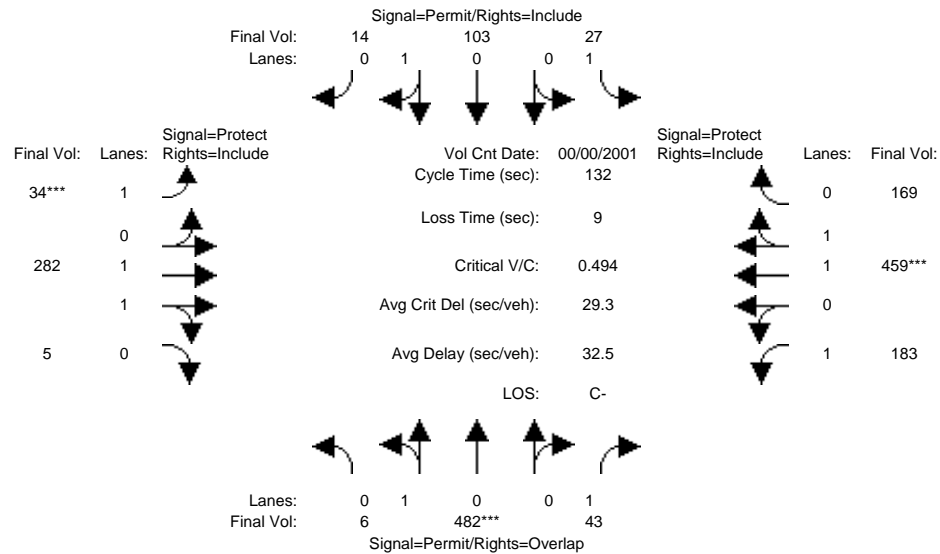## Intersection #3616: KEYES/SECOND

Signal=Split/Rights=Include

| | Final Vol: | 74 | 467*** | 145 |
| | Lanes: | 1   0 | 1 | 1   0 |

	Final Vol:	Lanes:	Signal=Protect Rights=Include				Signal=Protect Rights=Include	Lanes:	Final Vol:
	0	0		Vol Cnt Date:	5/19/2015			0	0
		0		Cycle Time (sec):	134			0	
	419***	1						2	312
				Critical V/C:	0.421				
	1			Avg Crit Del (sec/veh):	35.5			0	
	6	0		Avg Delay (sec/veh):	31.4			1	181***
				LOS:	C				

| | Lanes: | 0   0 | 0 | 0   0 |
| | Final Vol: | 0 | 0 | 0 |

Signal=Split/Rights=Include

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	10	10	0	10	10	7	10	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module: >> Count Date: 19 May 2015 << 4:45-5:45

Base Vol:	0	0	0	145	467	74	0	419	6	181	312	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	145	467	74	0	419	6	181	312	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
ATI:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	145	467	74	0	419	6	181	312	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	145	467	74	0	419	6	181	312	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	145	467	74	0	419	6	181	312	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	145	467	74	0	419	6	181	312	0

Saturation Flow Module:

Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.95	0.98	0.92	0.92	0.97	0.95	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	0.49	1.51	1.00	0.00	1.97	0.03	1.00	2.00	0.00
Final Sat.:	0	0	0	876	2823	1750	0	3648	52	1750	3800	0

Capacity Analysis Module:

Vol/Sat:	0.00	0.00	0.00	0.17	0.17	0.04	0.00	0.11	0.11	0.10	0.08	0.00
Crit Moves:				****				****		****		
Green Time:	0.0	0.0	0.0	52.6	52.6	52.6	0.0	36.5	36.5	32.9	69.4	0.0
Volume/Cap:	0.00	0.00	0.00	0.42	0.42	0.11	0.00	0.42	0.42	0.42	0.16	0.00
Delay/Veh:	0.0	0.0	0.0	29.8	29.8	25.9	0.0	40.3	40.3	43.2	17.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	29.8	29.8	25.9	0.0	40.3	40.3	43.2	17.0	0.0
LOS by Move:	A	A	A	C	C	C	A	D	D	D	B	A
HCM2kAvgQ:	0	0	0	9	9	2	0	7	7	7	3	0

Note: Queue reported is the number of cars per lane.

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

Intersection #3616: KEYES/SECOND

```
                              Signal=Permit/Rights=Include
              Final Vol:        14        103        27
              Lanes:          0    1     0      0    1

Final Vol:  Lanes:  Signal=Protect                      Signal=Protect  Lanes:  Final Vol:
                    Rights=Include      Vol Cnt Date:  00/00/2001  Rights=Include
                                        Cycle Time (sec):   132
  34***      1                                                          0        169
                                        Loss Time (sec):     9
             0                                                          1
  282        1                          Critical V/C:      0.494        1        459***
             1                          Avg Crit Del (sec/veh):  29.3   0
  5          0                          Avg Delay (sec/veh):  32.5      1        183

                                        LOS:                C-

              Lanes:          0    1     0      0    1
              Final Vol:        6        482***      43
                              Signal=Permit/Rights=Overlap
```

```
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R     L  -  T  -  R     L  -  T  -  R     L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10     10   10   10      7   10   10      7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 0  2001 << AM
Base Vol:      6  474   43     26   79   12     34  227    5    165  390  166
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   6  474   43     26   79   12     34  227    5    165  390  166
Added Vol:     0    0    0      0    0    0      0    0    0      0    0    0
ATI:           0    8    0      1   24    2      0   55    0     18   69    3
Initial Fut:   6  482   43     27  103   14     34  282    5    183  459  169
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    6  482   43     27  103   14     34  282    5    183  459  169
Reduct Vol:    0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:   6  482   43     27  103   14     34  282    5    183  459  169
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   6  482   43     27  103   14     34  282    5    183  459  169
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.95 0.95 0.92   0.92 0.95 0.95   0.92 0.97 0.95   0.92 0.98 0.95
Lanes:      0.01 0.99 1.00   1.00 0.88 0.12   1.00 1.96 0.04   1.00 1.45 0.55
Final Sat.:   22 1778 1750   1750 1585  215   1750 3635   64   1750 2704  995
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.27 0.27 0.02   0.02 0.07 0.07   0.02 0.08 0.08   0.10 0.17 0.17
Crit Moves:      ****                ****                ****          ****
Green Time: 71.3 71.3 101.0  71.3 71.3 71.3    7.0 22.0 22.0   29.7 44.7 44.7
Volume/Cap: 0.50 0.50 0.03   0.03 0.12 0.12   0.37 0.47 0.47   0.47 0.50 0.50
Delay/Veh:  19.5 19.5  3.7   14.2 15.0 15.0   62.8 50.2 50.2   45.2 35.1 35.1
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 19.5 19.5  3.7   14.2 15.0 15.0   62.8 50.2 50.2   45.2 35.1 35.1
LOS by Move:  B-   B-    A      B    B    B      E    D    D      D   D+   D+
HCM2kAvgQ:    13   13    0      1    2    2      2    6    6      7   10   10
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

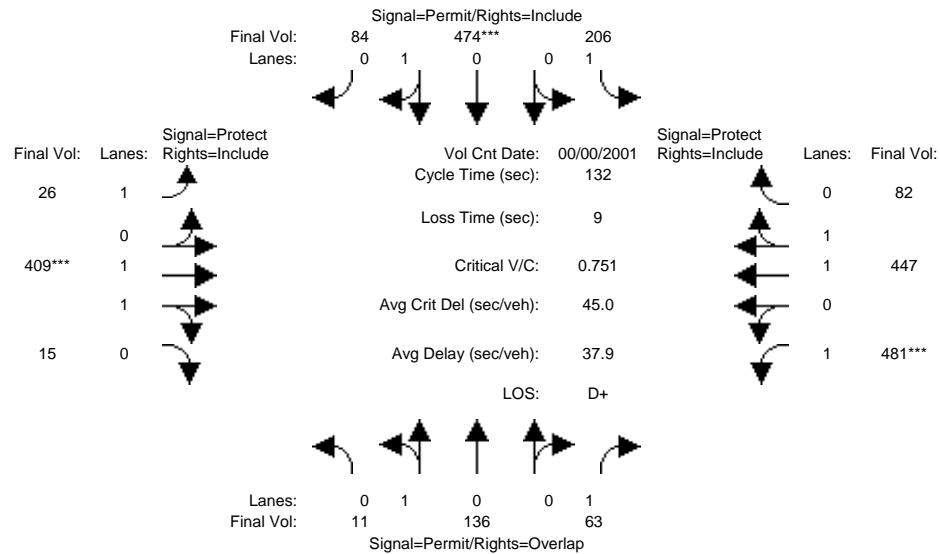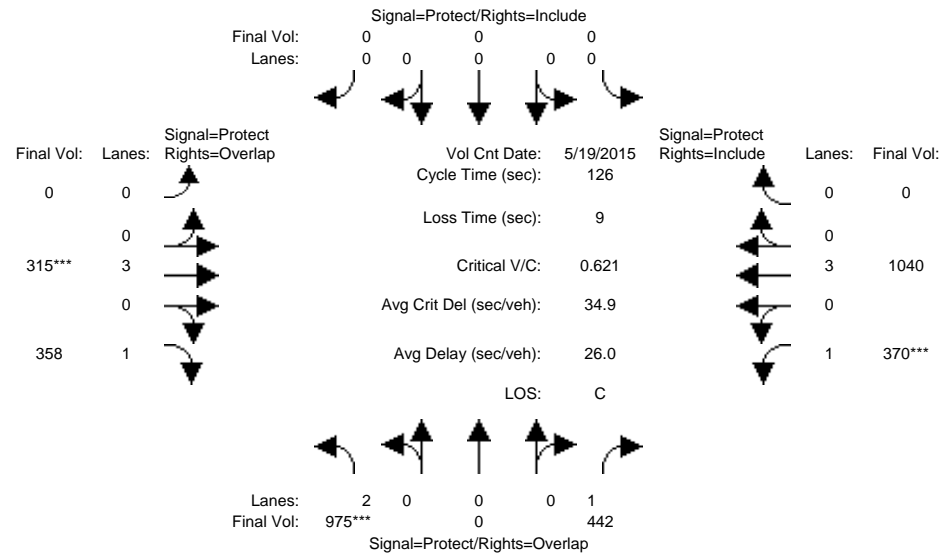Intersection #3616: KEYES/SECOND

Signal=Permit/Rights=Include

```
Final Vol:       84        474***        206
Lanes:        0   1      0        0    1
```

```
                  Signal=Protect                                    Signal=Protect
Final Vol: Lanes: Rights=Include          Vol Cnt Date: 00/00/2001  Rights=Include   Lanes: Final Vol:
                                          Cycle Time (sec):   132
   26      1                                                                          0      82

           0                              Loss Time (sec):     9                     1

  409***   1                              Critical V/C:      0.751                    1     447

           1                              Avg Crit Del (sec/veh): 45.0                0

   15      0                              Avg Delay (sec/veh):   37.9                 1    481***

                                          LOS:               D+
```

```
Lanes:       0   1      0        0    1
Final Vol:     11      136           63
```

Signal=Permit/Rights=Overlap

```
Approach:     North Bound     South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||--------------|
Min. Green:   10   10   10     10   10   10      7   10   10      7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||--------------|
Volume Module: >> Count Date: 0  2001 << PM
Base Vol:     11  135   63    178  325   77     26  381   15    451  441   81
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:  11  135   63    178  325   77     26  381   15    451  441   81
Added Vol:     0    0    0      0    0    0      0    0    0      0    0    0
ATI:           0    1    0     28  149    7      0   28    0     30    6    1
Initial Fut:  11  136   63    206  474   84     26  409   15    481  447   82
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:   11  136   63    206  474   84     26  409   15    481  447   82
Reduct Vol:    0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:  11  136   63    206  474   84     26  409   15    481  447   82
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:  11  136   63    206  474   84     26  409   15    481  447   82
------------|---------------||---------------||---------------||--------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.95 0.95 0.92   0.92 0.95 0.95   0.92 0.97 0.95   0.92 0.98 0.95
Lanes:      0.07 0.93 1.00   1.00 0.85 0.15   1.00 1.93 0.07   1.00 1.68 0.32
Final Sat.:  135 1665 1750   1750 1529  271   1750 3569  131   1750 3126  573
------------|---------------||---------------||---------------||--------------|
Capacity Analysis Module:
Vol/Sat:    0.08 0.08 0.04   0.12 0.31 0.31   0.01 0.11 0.11   0.27 0.14 0.14
Crit Moves:           ****             ****             ****
Green Time: 54.5 54.5 102.8  54.5 54.5 54.5   18.5 20.2 20.2   48.3 50.0 50.0
Volume/Cap: 0.20 0.20 0.05   0.29 0.75 0.75   0.11 0.75 0.75   0.75 0.38 0.38
Delay/Veh:  24.9 24.9  3.4   26.0 37.2 37.2   49.7 59.1 59.1   41.5 29.9 29.9
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 24.9 24.9  3.4   26.0 37.2 37.2   49.7 59.1 59.1   41.5 29.9 29.9
LOS by Move:  C    C    A      C   D+   D+      D   E+   E+      D    C    C
HCM2kAvgQ:     4    4    1      6   21   21      1   10   10     19    8    8
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

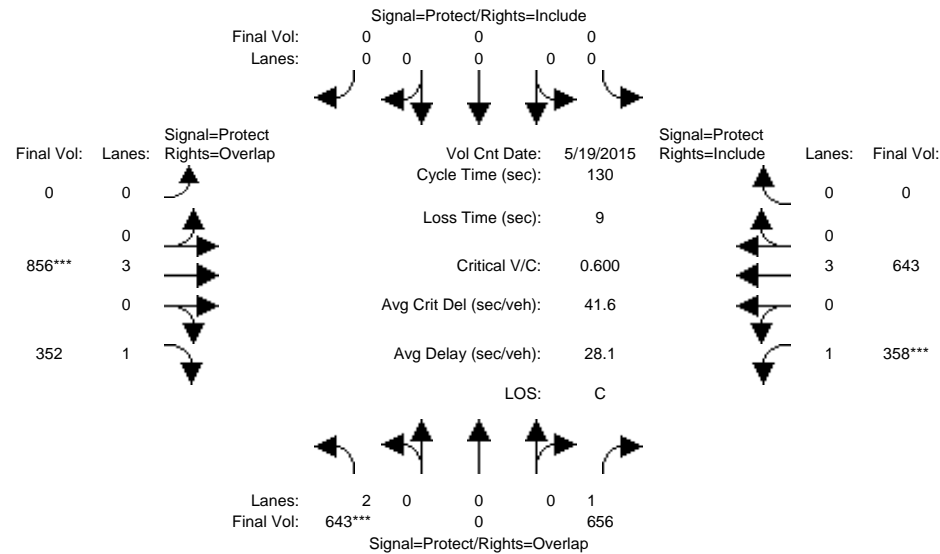## Intersection #3617: KEYES/SENTER

```
                          Signal=Protect/Rights=Include
          Final Vol:        0          0          0
          Lanes:         0    0      0       0    0


  Final Vol: Lanes:  Signal=Protect                           Signal=Protect
                     Rights=Overlap     Vol Cnt Date: 5/19/2015  Rights=Include  Lanes: Final Vol:
                                        Cycle Time (sec):  126
      0       0                                                               0      0

              0                         Loss Time (sec):    9                  0

    315***    3                         Critical V/C:     0.621                3    1040

              0                         Avg Crit Del (sec/veh): 34.9           0

    358       1                         Avg Delay (sec/veh): 26.0              1    370***

                                        LOS:                C


          Lanes:          2    0      0       0    1
          Final Vol:    975***         0          442
                          Signal=Protect/Rights=Overlap
```

```
Approach:      North Bound     South Bound     East Bound      West Bound
Movement:     L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10    0   10     0    0    0     0   10   10     7   10    0
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 19 May 2015 << 7:15-8:15
Base Vol:     975    0  442     0    0    0     0  315  358   370 1040    0
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  975    0  442     0    0    0     0  315  358   370 1040    0
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:            0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:  975    0  442     0    0    0     0  315  358   370 1040    0
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   975    0  442     0    0    0     0  315  358   370 1040    0
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  975    0  442     0    0    0     0  315  358   370 1040    0
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  975    0  442     0    0    0     0  315  358   370 1040    0
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.83 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:       2.00 0.00 1.00  0.00 0.00 0.00  0.00 3.00 1.00  1.00 3.00 0.00
Final Sat.:  3150    0 1750     0    0    0     0 5700 1750  1750 5700    0
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.31 0.00 0.25  0.00 0.00 0.00  0.00 0.06 0.20  0.21 0.18 0.00
Crit Moves:  ****                                  ****       ****
Green Time:  62.8  0.0 105.8  0.0  0.0  0.0   0.0 11.2 74.1  42.9 54.2  0.0
Volume/Cap:  0.62 0.00 0.30  0.00 0.00 0.00  0.00 0.62 0.35  0.62 0.42 0.00
Delay/Veh:   24.8  0.0  2.7   0.0  0.0  0.0   0.0 61.0 14.4  39.5 25.6  0.0
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  24.8  0.0  2.7   0.0  0.0  0.0   0.0 61.0 14.4  39.5 25.6  0.0
LOS by Move:    C    A    A     A    A    A     A    E    B     D    C    A
HCM2kAvgQ:     17    0    4     0    0    0     0    5    8    13    9    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (PM)

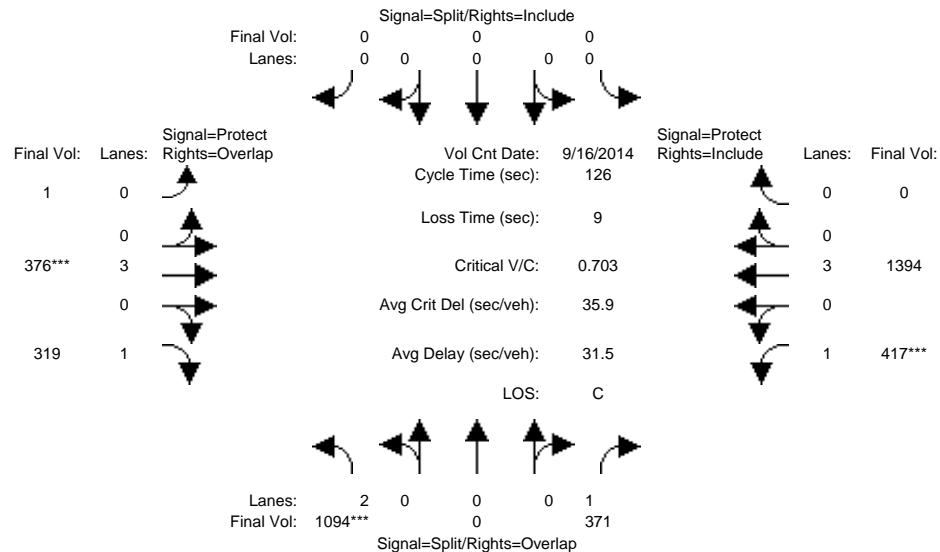## Intersection #3617: KEYES/SENTER

```
                          Signal=Protect/Rights=Include
              Final Vol:      0        0          0
              Lanes:      0    0       0      0    0

                  ↰   ↲↓        ↓        ↳→      ↱

Final Vol: Lanes: Signal=Protect                         Signal=Protect
                  Rights=Overlap    Vol Cnt Date: 5/19/2015  Rights=Include  Lanes: Final Vol:
   0        0       ↰         Cycle Time (sec):  130          ↰         0      0
            0       ↑                                         ↑         0
  856***    3       →         Loss Time (sec):    9           ←         3     643
            0       ↳→        Critical V/C:     0.600         ↰         0
  352       1       ↲         Avg Crit Del (sec/veh): 41.6    ↳         1     358***
                    ↓         Avg Delay (sec/veh): 28.1
                              LOS:               C

                  ↰   ↲↑       ↑        ↑→      ↱
              Lanes:      2    0       0      0    1
              Final Vol:   643***       0          656
                          Signal=Protect/Rights=Overlap
```

```
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:  10    0   10     0    0    0     0   10   10      7   10    0
Y+R:        4.0  4.0  4.0    4.0  4.0  4.0   4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 19 May 2015 << 4:30-5:30
Base Vol:   643    0  656     0    0    0     0  856  352    358  643    0
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 643   0  656     0    0    0     0  856  352    358  643    0
Added Vol:    0    0    0     0    0    0     0    0    0      0    0    0
ATI:          0    0    0     0    0    0     0    0    0      0    0    0
Initial Fut: 643   0  656     0    0    0     0  856  352    358  643    0
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume: 643    0  656     0    0    0     0  856  352    358  643    0
Reduct Vol:   0    0    0     0    0    0     0    0    0      0    0    0
Reduced Vol: 643   0  656     0    0    0     0  856  352    358  643    0
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 643   0  656     0    0    0     0  856  352    358  643    0
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.83 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      2.00 0.00 1.00  0.00 0.00 0.00  0.00 3.00 1.00  1.00 3.00 0.00
Final Sat.: 3150   0  1750     0    0    0     0 5700 1750   1750 5700    0
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.20 0.00 0.37  0.00 0.00 0.00  0.00 0.15 0.20   0.20 0.11 0.00
Crit Moves: ****                                 ****       ****
Green Time: 44.2 0.0 88.5   0.0  0.0  0.0   0.0 32.5 76.7   44.3 76.8  0.0
Volume/Cap: 0.60 0.00 0.55  0.00 0.00 0.00  0.00 0.60 0.34   0.60 0.19 0.00
Delay/Veh:  38.1 0.0 12.4   0.0  0.0  0.0   0.0 44.9 14.6   39.9 12.4  0.0
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 38.1 0.0 12.4   0.0  0.0  0.0   0.0 44.9 14.6   39.9 12.4  0.0
LOS by Move: D+   A    B     A    A    A     A    D    B      D    B    A
HCM2kAvgQ:   13    0   14     0    0    0     0   11    8     13    4    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

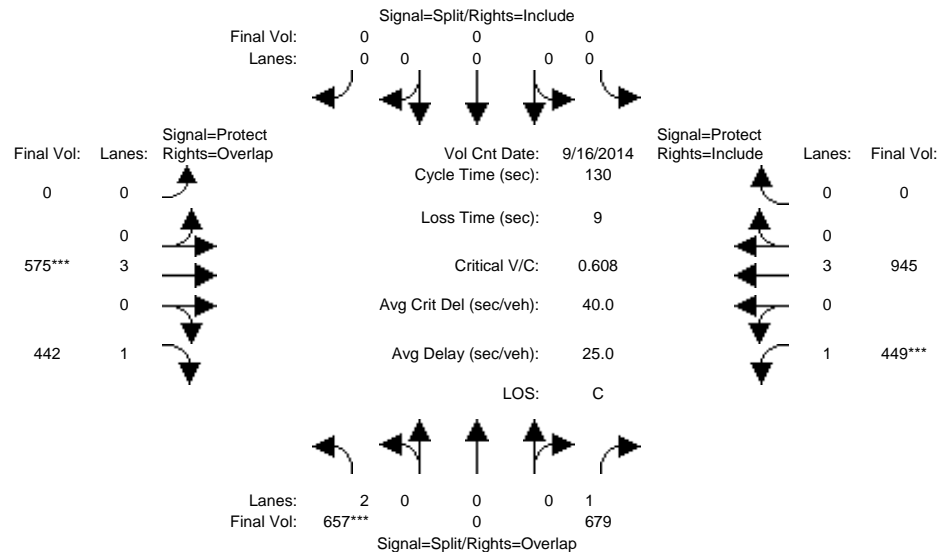## Intersection #3617: KEYES/SENTER

```
                        Signal=Split/Rights=Include
            Final Vol:       0        0        0
            Lanes:        0    0      0      0    0

                    ↰   ↙↓     ↓    ↳    ↱

        Signal=Protect                              Signal=Protect
Final Vol: Lanes: Rights=Overlap   Vol Cnt Date: 9/16/2014  Rights=Include  Lanes: Final Vol:
                                   Cycle Time (sec):  126
    1      0      ↱                                                   0       0

           0      →        Loss Time (sec):    9              0

   376***  3      →        Critical V/C:      0.703          3       1394

           0      ↳        Avg Crit Del (sec/veh): 35.9       0

   319     1      ↓        Avg Delay (sec/veh):   31.5        1       417***

                                   LOS:         C

                    ↰   ↙↑    ↑    ↱↑   ↱

            Lanes:        2    0      0      0    1
            Final Vol:  1094***        0         371
                        Signal=Split/Rights=Overlap
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|----------------||----------------||----------------||---------------|
Min. Green:   10    0   10     0    0    0      0   10   10      7   10    0
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
-----------|----------------||----------------||----------------||---------------|
Volume Module: >> Count Date: 16 Sep 2014 << 7:30-8:30AM
Base Vol:    1052    0  352     0    0    0      1  302  316    409 1328    0
Growth Adj:  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse: 1052    0  352     0    0    0      1  302  316    409 1328    0
Added Vol:      0    0    0     0    0    0      0    0    0      0    0    0
ATI:           42    0   19     0    0    0      0   74    3      8   66    0
Initial Fut: 1094    0  371     0    0    0      1  376  319    417 1394    0
User Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:  1094    0  371     0    0    0      1  376  319    417 1394    0
Reduct Vol:     0    0    0     0    0    0      0    0    0      0    0    0
Reduced Vol: 1094    0  371     0    0    0      1  376  319    417 1394    0
PCE Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume: 1094    0  371     0    0    0      1  376  319    417 1394    0
-----------|----------------||----------------||----------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment:  0.83 1.00 0.92   0.92 1.00 0.92   0.95 0.98 0.92   0.92 1.00 0.92
Lanes:       2.00 0.00 1.00   0.00 0.00 0.00   0.01 2.99 1.00   1.00 3.00 0.00
Final Sat.:  3150    0 1750     0    0    0     15 5585 1750   1750 5700    0
-----------|----------------||----------------||----------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.35 0.00 0.21   0.00 0.00 0.00   0.07 0.07 0.18   0.24 0.24 0.00
Crit Moves:  ****                               ****            ****
Green Time:  62.2  0.0 104.9   0.0  0.0  0.0   11.8 12.1 74.3   42.7 42.9  0.0
Volume/Cap:  0.70 0.00 0.25   0.00 0.00 0.00   0.72 0.70 0.31   0.70 0.72 0.00
Delay/Veh:   26.2  0.0  2.3    0.0  0.0  0.0   60.2 59.4 13.1   40.0 37.6  0.0
User DelAdj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:  26.2  0.0  2.3    0.0  0.0  0.0   60.2 59.4 13.1   40.0 37.6  0.0
LOS by Move:    C    A    A      A    A    A      E   E+    B      D   D+    A
HCM2kAvgQ:     20    0    3      0    0    0      6    6    7     16   16    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

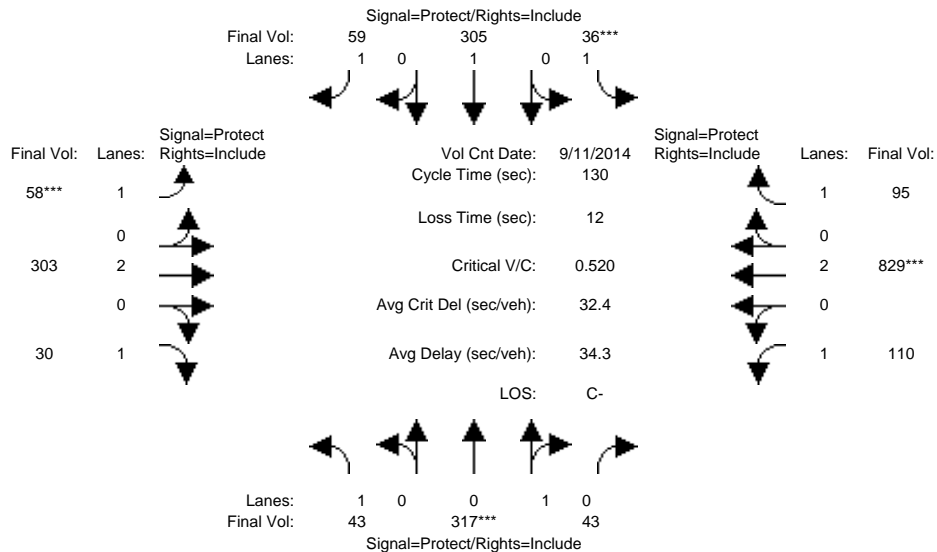## Intersection #3617: KEYES/SENTER

```
                              Signal=Split/Rights=Include
              Final Vol:       0         0           0
              Lanes:       0    0    0         0    0


                    Signal=Protect                              Signal=Protect
Final Vol:  Lanes:  Rights=Overlap    Vol Cnt Date:    9/16/2014  Rights=Include   Lanes:  Final Vol:
                                      Cycle Time (sec):   130
   0       0                                                                        0       0

           0                          Loss Time (sec):      9                       0

 575***    3                          Critical V/C:       0.608                     3       945

           0                          Avg Crit Del (sec/veh):  40.0                 0

  442      1                          Avg Delay (sec/veh):    25.0                  1      449***

                                      LOS:                C


              Lanes:          2    0    0         0    1
              Final Vol:   657***          0           679
                              Signal=Split/Rights=Overlap
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    10    0   10     0    0    0     0   10   10     7   10    0
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 16 Sep 2014 << 4:30-5:30PM
Base Vol:     604    0  615     0    0    0     0  338  397   404  739    0
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  604    0  615     0    0    0     0  338  397   404  739    0
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:           53    0   64     0    0    0     0  237   45    45  206    0
Initial Fut:  657    0  679     0    0    0     0  575  442   449  945    0
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   657    0  679     0    0    0     0  575  442   449  945    0
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  657    0  679     0    0    0     0  575  442   449  945    0
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  657    0  679     0    0    0     0  575  442   449  945    0
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.83 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:       2.00 0.00 1.00  0.00 0.00 0.00  0.00 3.00 1.00  1.00 3.00 0.00
Final Sat.:  3150    0 1750     0    0    0     0 5700 1750  1750 5700    0
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.21 0.00 0.39  0.00 0.00 0.00  0.00 0.10 0.25  0.26 0.17 0.00
Crit Moves:  ****                               ****           ****
Green Time:  44.6  0.0 99.4   0.0  0.0  0.0   0.0 21.6 66.2  54.8 76.4  0.0
Volume/Cap:  0.61 0.00 0.51  0.00 0.00 0.00  0.00 0.61 0.50  0.61 0.28 0.00
Delay/Veh:   36.5  0.0  6.2   0.0  0.0  0.0   0.0 51.5 21.4  30.7 13.3  0.0
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  36.5  0.0  6.2   0.0  0.0  0.0   0.0 51.5 21.4  30.7 13.3  0.0
LOS by Move:  D+    A    A     A    A    A     A   D-   C+    C    B    A
HCM2kAvgQ:     13    0   11     0    0    0     0    8   12    15    6    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

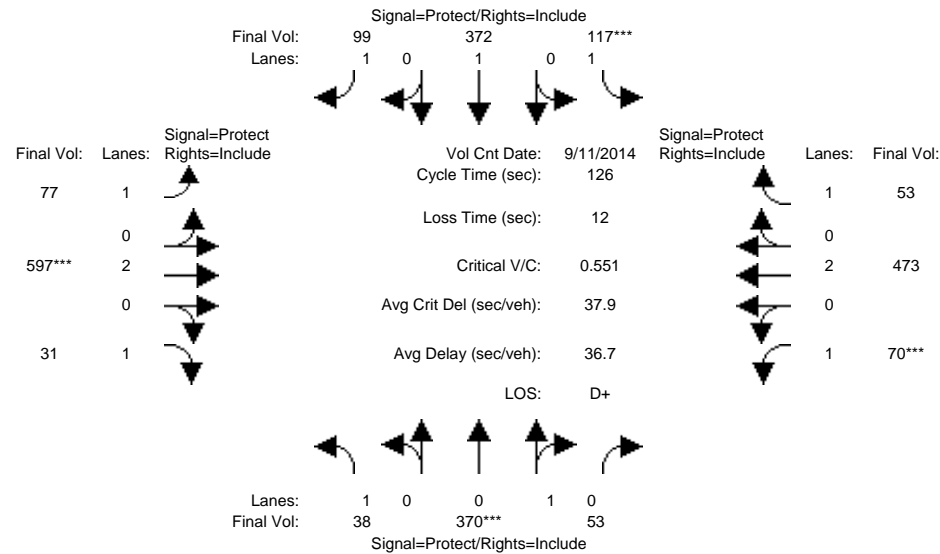## Intersection #3618: KEYES/SEVENTH

Signal=Protect/Rights=Include

Final Vol:	59	305	36***
Lanes:	1 0	1 0	1

		Signal=Protect						Signal=Protect		
Final Vol:	Lanes:	Rights=Include		Vol Cnt Date:	9/11/2014		Rights=Include	Lanes:	Final Vol:
				Cycle Time (sec):	130			1	95
58***	1								
	0			Loss Time (sec):	12			0	
303	2			Critical V/C:	0.520			2	829***
	0			Avg Crit Del (sec/veh):	32.4			0	
30	1			Avg Delay (sec/veh):	34.3			1	110
				LOS:	C-				

	Lanes:	1 0	0 1	0
	Final Vol:	43	317***	43

Signal=Protect/Rights=Include

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|----------------||---------------||---------------||---------------|
Min. Green:    7   10   10     7   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|----------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 11 Sep 2014 << 7:45-8:45
Base Vol:     43  317   43    36  305   59    58  303   30   110  829   95
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  43  317   43    36  305   59    58  303   30   110  829   95
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:  43  317   43    36  305   59    58  303   30   110  829   95
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   43  317   43    36  305   59    58  303   30   110  829   95
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  43  317   43    36  305   59    58  303   30   110  829   95
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  43  317   43    36  305   59    58  303   30   110  829   95
-----------|----------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.95 0.95  0.92 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      1.00 0.88 0.12  1.00 1.00 1.00  1.00 2.00 1.00  1.00 2.00 1.00
Final Sat.: 1750 1585  215  1750 1900 1750  1750 3800 1750  1750 3800 1750
-----------|----------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.02 0.20 0.20  0.02 0.16 0.03  0.03 0.08 0.02  0.06 0.22 0.05
Crit Moves:      ****            ****            ****            ****
Green Time: 14.1 49.2 49.2   7.0 42.1 42.1   8.2 34.6 34.6  27.2 53.7 53.7
Volume/Cap: 0.23 0.53 0.53  0.38 0.50 0.10  0.53 0.30 0.06  0.30 0.53 0.13
Delay/Veh:  53.6 32.2 32.2  62.0 36.0 30.9  63.8 38.2 35.7  43.8 29.0 23.8
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 53.6 32.2 32.2  62.0 36.0 30.9  63.8 38.2 35.7  43.8 29.0 23.8
LOS by Move: D-   C-   C-     E   D+    C     E   D+   D+     D    C    C
HCM2kAvgQ:     2   12   12     2   10    2     3    5    1     4   12    2
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (PM)

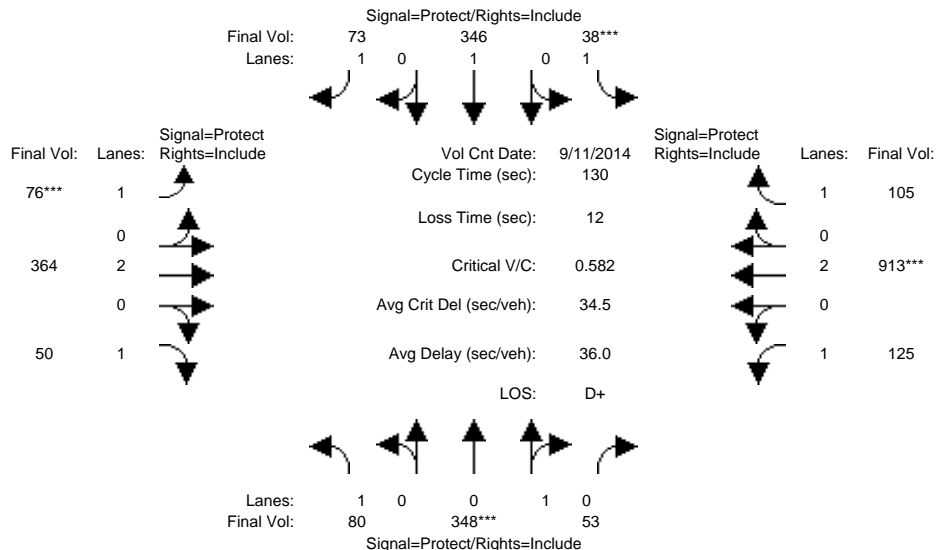## Intersection #3618: KEYES/SEVENTH

Signal=Protect/Rights=Include

| Final Vol: | 99 | 372 | 117*** |
| Lanes: | 1 0 | 1 0 | 1 |

Final Vol:	Lanes:	Signal=Protect Rights=Include			Signal=Protect Rights=Include	Lanes:	Final Vol:
77	1		Vol Cnt Date:	9/11/2014		1	53
	0		Cycle Time (sec):	126		0	
597***	2		Loss Time (sec):	12		2	473
	0		Critical V/C:	0.551		0	
31	1		Avg Crit Del (sec/veh):	37.9		1	70***
			Avg Delay (sec/veh):	36.7			
			LOS:	D+			

| Lanes: | 1 0 | 0 | 1 0 |
| Final Vol: | 38 | 370*** | 53 |

Signal=Protect/Rights=Include

```
Approach:     North Bound     South Bound     East Bound      West Bound
Movement:     L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    7   10   10    7   10   10    7   10   10    7   10   10
Y+R:         4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 11 Sep 2014 << 4:45-5:45
Base Vol:     38  370   53  117  372   99   77  597   31   70  473   53
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:  38  370   53  117  372   99   77  597   31   70  473   53
Added Vol:     0    0    0    0    0    0    0    0    0    0    0    0
ATI:           0    0    0    0    0    0    0    0    0    0    0    0
Initial Fut:  38  370   53  117  372   99   77  597   31   70  473   53
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   38  370   53  117  372   99   77  597   31   70  473   53
Reduct Vol:    0    0    0    0    0    0    0    0    0    0    0    0
Reduced Vol:  38  370   53  117  372   99   77  597   31   70  473   53
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume:  38  370   53  117  372   99   77  597   31   70  473   53
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900
Adjustment: 0.92 0.95 0.95 0.92 1.00 0.92 0.92 1.00 0.92 0.92 1.00 0.92
Lanes:      1.00 0.87 0.13 1.00 1.00 1.00 1.00 2.00 1.00 1.00 2.00 1.00
Final Sat.: 1750 1574  226 1750 1900 1750 1750 3800 1750 1750 3800 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.02 0.24 0.24 0.07 0.20 0.06 0.04 0.16 0.02 0.04 0.12 0.03
Crit Moves:      ****           ****           ****           ****
Green Time: 15.2 53.7 53.7 15.3 53.7 53.7 13.9 35.9 35.9  9.1 31.1 31.1
Volume/Cap: 0.18 0.55 0.55 0.55 0.46 0.13 0.40 0.55 0.06 0.55 0.50 0.12
Delay/Veh:  50.2 28.0 28.0 55.2 26.2 22.1 53.5 38.8 32.9 61.6 41.2 37.0
User DelAdj:1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
AdjDel/Veh: 50.2 28.0 28.0 55.2 26.2 22.1 53.5 38.8 32.9 61.6 41.2 37.0
LOS by Move:  D    C    C   E+    C   C+   D-   D+   C-    E    D   D+
HCM2kAvgQ:     2   13   13    5   10    2    3   10    1    4    8    2
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

Intersection #3618: KEYES/SEVENTH

```
                              Signal=Protect/Rights=Include
             Final Vol:      73          346          38***
             Lanes:        1    0      1    0      1

          Signal=Protect
          Rights=Include                                    Signal=Protect
Final Vol: Lanes:                     Vol Cnt Date:  9/11/2014  Rights=Include   Lanes:  Final Vol:
                                      Cycle Time (sec):   130
  76***    1                                                              1      105

           0                          Loss Time (sec):     12
                                                                          0
  364      2                          Critical V/C:       0.582            2      913***

           0                          Avg Crit Del (sec/veh): 34.5        0

  50       1                          Avg Delay (sec/veh):  36.0           1      125

                                      LOS:                  D+

             Lanes:        1    0      0    1      0
             Final Vol:      80         348***        53
                              Signal=Protect/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    7   10   10     7   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 11 Sep 2014 << 7:45-8:45AM
Base Vol:     43  317   43    36  305   59    58  303   30   110  829   95
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  43  317   43    36  305   59    58  303   30   110  829   95
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:          37   31   10     2   41   14    18   61   20    15   84   10
Initial Fut:  80  348   53    38  346   73    76  364   50   125  913  105
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   80  348   53    38  346   73    76  364   50   125  913  105
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  80  348   53    38  346   73    76  364   50   125  913  105
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  80  348   53    38  346   73    76  364   50   125  913  105
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.95 0.95  0.92 1.00 0.92  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      1.00 0.87 0.13  1.00 1.00 1.00  1.00 2.00 1.00  1.00 2.00 1.00
Final Sat.: 1750 1562  238  1750 1900 1750  1750 3800 1750  1750 3800 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.05 0.22 0.22  0.02 0.18 0.04  0.04 0.10 0.03  0.07 0.24 0.06
Crit Moves:      ****            ****            ****            ****
Green Time: 12.7 48.8 48.8   7.0 43.1 43.1   9.5 35.6 35.6  26.6 52.7 52.7
Volume/Cap: 0.47 0.59 0.59  0.40 0.55 0.13  0.59 0.35 0.10  0.35 0.59 0.15
Delay/Veh:  57.4 34.0 34.0  62.3 36.6 30.4  65.6 38.1 35.4  44.9 30.9 24.6
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 57.4 34.0 34.0  62.3 36.6 30.4  65.6 38.1 35.4  44.9 30.9 24.6
LOS by Move:  E+   C-   C-     E   D+    C     E   D+   D+     D    C    C
HCM2kAvgQ:     4   14   14     2   11    2     4    6    2     5   14    3
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
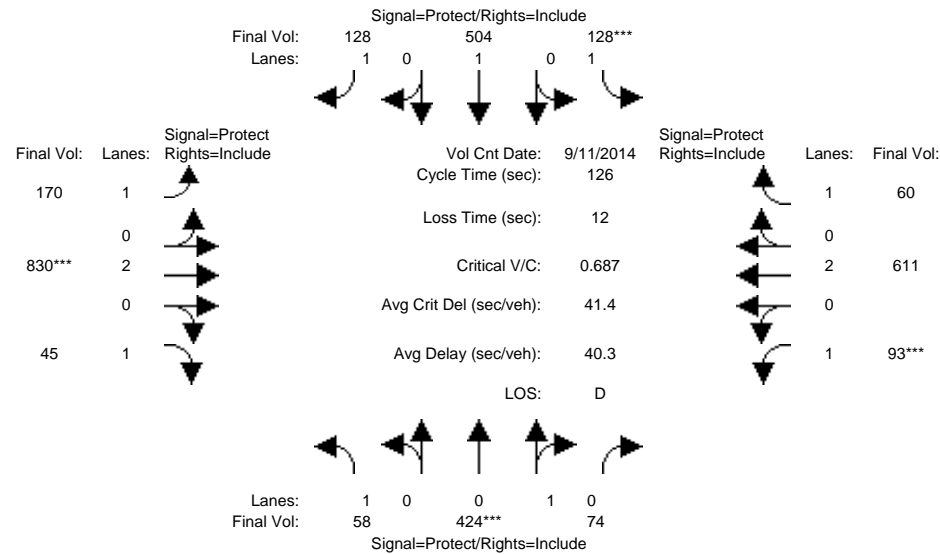Background (PM)

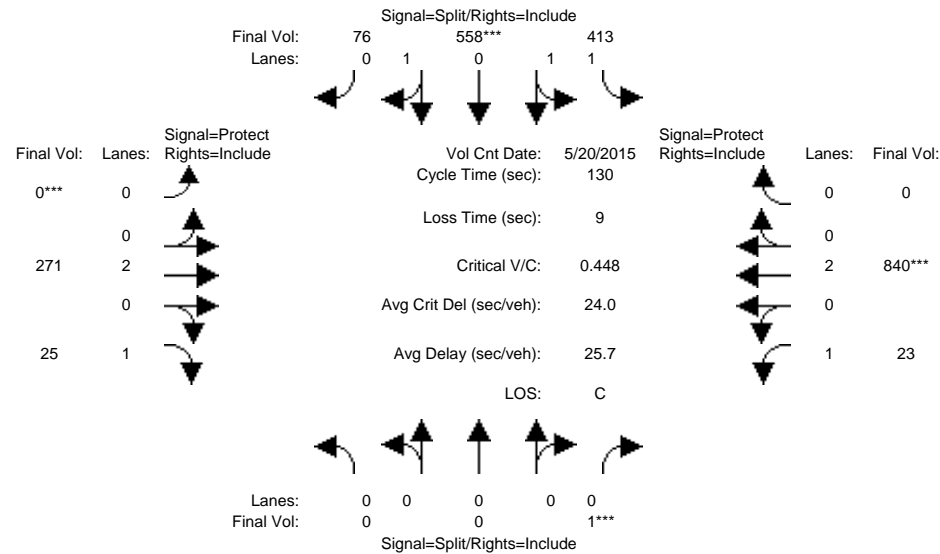## Intersection #3618: KEYES/SEVENTH

```
                               Signal=Protect/Rights=Include
             Final Vol:    128        504        128***
             Lanes:      1    0    1    0    1


                  Signal=Protect                              Signal=Protect
Final Vol: Lanes: Rights=Include          Vol Cnt Date:  9/11/2014   Rights=Include   Lanes:  Final Vol:
                                          Cycle Time (sec):   126
   170      1                                                                           1        60

            0                             Loss Time (sec):     12
                                                                                        0
   830***   2                             Critical V/C:      0.687                       2       611

            0                             Avg Crit Del (sec/veh):  41.4                  0

    45      1                             Avg Delay (sec/veh):    40.3                   1       93***

                                          LOS:                  D


             Lanes:      1    0    0    1    0
             Final Vol:    58        424***        74
                               Signal=Protect/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   7   10   10     7   10   10     7   10   10     7   10   10
Y+R:        4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 11 Sep 2014 << 4:45-5:45PM
Base Vol:    38  370   53   117  372   99    77  597   31    70  473   53
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:  38  370   53   117  372   99    77  597   31    70  473   53
Added Vol:    0    0    0     0    0    0     0    0    0     0    0    0
ATI:         20   54   21    11  132   29    93  233   14    23  138    7
Initial Fut:  58  424   74   128  504  128   170  830   45    93  611   60
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   58  424   74   128  504  128   170  830   45    93  611   60
Reduct Vol:   0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  58  424   74   128  504  128   170  830   45    93  611   60
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume:  58  424   74   128  504  128   170  830   45    93  611   60
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:  1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900
Adjustment: 0.92 0.95 0.95 0.92 1.00 0.92 0.92 1.00 0.92 0.92 1.00 0.92
Lanes:     1.00 0.85 0.15 1.00 1.00 1.00 1.00 2.00 1.00 1.00 2.00 1.00
Final Sat.: 1750 1533  267 1750 1900 1750 1750 3800 1750 1750 3800 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.03 0.28 0.28 0.07 0.27 0.07 0.10 0.22 0.03 0.05 0.16 0.03
Crit Moves:       ****           ****           ****           ****
Green Time: 11.1 50.8 50.8 13.4 53.1 53.1 18.8 40.1 40.1  9.7 31.1 31.1
Volume/Cap: 0.38 0.69 0.69 0.69 0.63 0.17 0.65 0.69 0.08 0.69 0.65 0.14
Delay/Veh:  55.7 33.8 33.8 64.5 30.4 22.9 56.3 39.2 30.1 70.4 44.3 37.2
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
AdjDel/Veh: 55.7 33.8 33.8 64.5 30.4 22.9 56.3 39.2 30.1 70.4 44.3 37.2
LOS by Move:  E+   C-   C-    E    C   C+    E+    D    C     E    D   D+
HCM2kAvgQ:    3   17   17     6   16    3     8   15    1     5   11    2
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
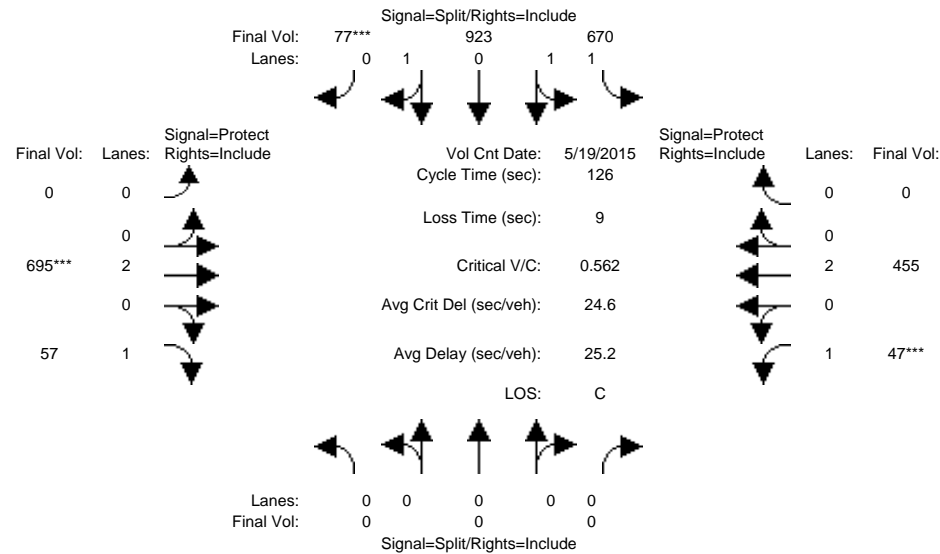Existing (AM)

Intersection #3619: KEYES/10TH

```
                              Signal=Split/Rights=Include
              Final Vol:    76        558***        413
              Lanes:      0    1        0        1    1

                              ↙    ↓↘    ↓    ↓↘    ↘

         Signal=Protect                                      Signal=Protect
Final Vol:  Lanes:  Rights=Include                           Rights=Include   Lanes:  Final Vol:

  0***        0      ↑                Vol Cnt Date:  5/20/2015        ↑          0        0
                                      Cycle Time (sec):  130
              0      ↑↓                                                 ↑↓       0
  271         2      →                Loss Time (sec):     9          ←          2      840***
              0      →↓               Critical V/C:      0.448          ↓↘       0
  25          1      ↘                Avg Crit Del (sec/veh):  24.0       ↘       1        23

                                      Avg Delay (sec/veh):  25.7

                                      LOS:              C

                              ↙    ↙↑    ↑    ↑→    ↗

              Lanes:      0    0        0        0    0
              Final Vol:  0            0            1***
                              Signal=Split/Rights=Include
```

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	– T –	R	L	– T –	R	L	– T –	R	L	– T –	R
Min. Green:	0	0	0	10	10	10	0	10	10	7	10	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module: >> Count Date: 20 May 2015 << 7:30-8:30

Base Vol:	0	0	1	413	558	76	0	271	25	23	840	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	1	413	558	76	0	271	25	23	840	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
ATI:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	1	413	558	76	0	271	25	23	840	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	1	413	558	76	0	271	25	23	840	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	1	413	558	76	0	271	25	23	840	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	1	413	558	76	0	271	25	23	840	0

Saturation Flow Module:

Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.93	0.95	0.95	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	1.00	1.20	1.58	0.22	0.00	2.00	1.00	1.00	2.00	0.00
Final Sat.:	0	0	1750	2110	2851	388	0	3800	1750	1750	3800	0

Capacity Analysis Module:

Vol/Sat:	0.00	0.00	0.00	0.20	0.20	0.20	0.00	0.07	0.01	0.01	0.22	0.00
Crit Moves:			****		****		****				****	
Green Time:	0.0	0.0	0.2	56.7	56.7	56.7	0.0	37.7	37.7	26.4	64.1	0.0
Volume/Cap:	0.00	0.00	0.45	0.45	0.45	0.45	0.00	0.25	0.05	0.06	0.45	0.00
Delay/Veh:	0.0	0.0	167.1	25.8	25.8	25.8	0.0	35.4	33.3	41.9	21.6	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	167.1	25.8	25.8	25.8	0.0	35.4	33.3	41.9	21.6	0.0
LOS by Move:	A	A	F	C	C	C	A	D+	C-	D	C+	A
HCM2kAvgQ:	0	0	0	10	10	10	0	4	1	1	11	0

Note: Queue reported is the number of cars per lane.

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
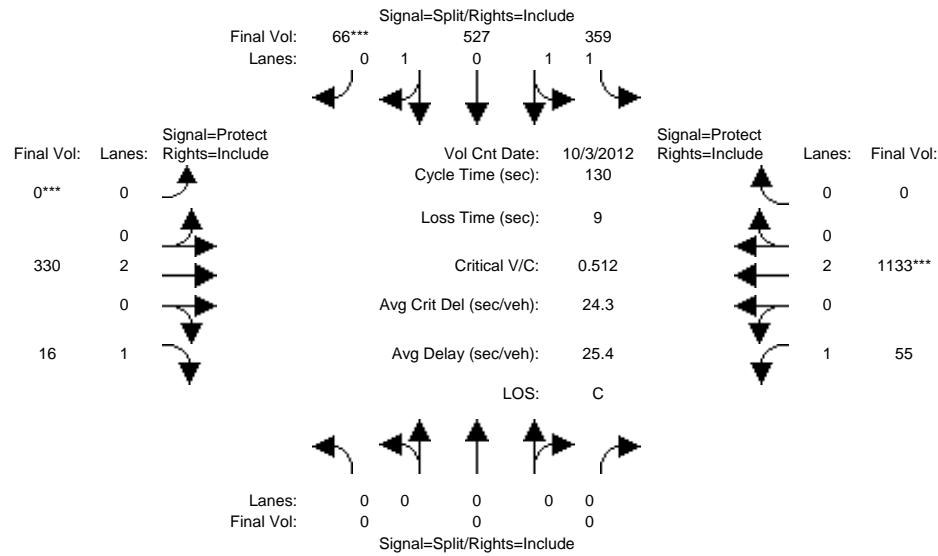Existing (PM)

Intersection #3619: KEYES/10TH

```
                              Signal=Split/Rights=Include
              Final Vol:    77***        923         670
              Lanes:         0    1       0       1    1
```

```
                   Signal=Protect                              Signal=Protect
Final Vol: Lanes:  Rights=Include         Vol Cnt Date:  5/19/2015   Rights=Include    Lanes:  Final Vol:
                                          Cycle Time (sec):   126
   0       0                                                                             0       0

           0                              Loss Time (sec):     9                         0

 695***    2                              Critical V/C:      0.562                       2       455

           0                              Avg Crit Del (sec/veh):  24.6                  0

  57       1                              Avg Delay (sec/veh):  25.2                     1      47***

                                          LOS:                 C
```

```
              Lanes:        0    0        0       0    0
              Final Vol:    0            0            0
                              Signal=Split/Rights=Include
```

```
Approach:       North Bound      South Bound      East Bound      West Bound
Movement:      L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    0    0    0    10   10   10    0    10   10     7    10    0
Y+R:          4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 19 May 2015 << 4:30-5:30
Base Vol:      0    0    0   670  923   77    0   695   57    47   455    0
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:   0    0    0   670  923   77    0   695   57    47   455    0
Added Vol:     0    0    0     0    0    0    0     0    0     0    0    0
ATI:           0    0    0     0    0    0    0     0    0     0    0    0
Initial Fut:   0    0    0   670  923   77    0   695   57    47   455    0
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:    0    0    0   670  923   77    0   695   57    47   455    0
Reduct Vol:    0    0    0     0    0    0    0     0    0     0    0    0
Reduced Vol:   0    0    0   670  923   77    0   695   57    47   455    0
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:   0    0    0   670  923   77    0   695   57    47   455    0
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900 1900 1900 1900 1900 1900 1900  1900 1900 1900
Adjustment: 0.92 1.00 0.92 0.93 0.95 0.95 0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      0.00 0.00 0.00 1.22 1.64 0.14 0.00 2.00 1.00  1.00 2.00 0.00
Final Sat.:    0    0    0  2146 2957  247    0  3800 1750  1750 3800    0
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.00 0.00 0.00 0.31 0.31 0.31 0.00 0.18 0.03  0.03 0.12 0.00
Crit Moves:                      ****           ****           ****
Green Time:  0.0  0.0  0.0 69.4 69.4 69.4  0.0 40.6 40.6   7.0 47.6  0.0
Volume/Cap: 0.00 0.00 0.00 0.57 0.57 0.57 0.00 0.57 0.10  0.48 0.32 0.00
Delay/Veh:   0.0  0.0  0.0 18.8 18.8 18.8  0.0 36.0 30.0  61.5 27.8  0.0
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  0.0  0.0  0.0 18.8 18.8 18.8  0.0 36.0 30.0  61.5 27.8  0.0
LOS by Move:   A    A    A   B-   B-   B-    A   D+    C     E    C    A
HCM2kAvgQ:     0    0    0   15   15   15    0   11    2     3    6    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

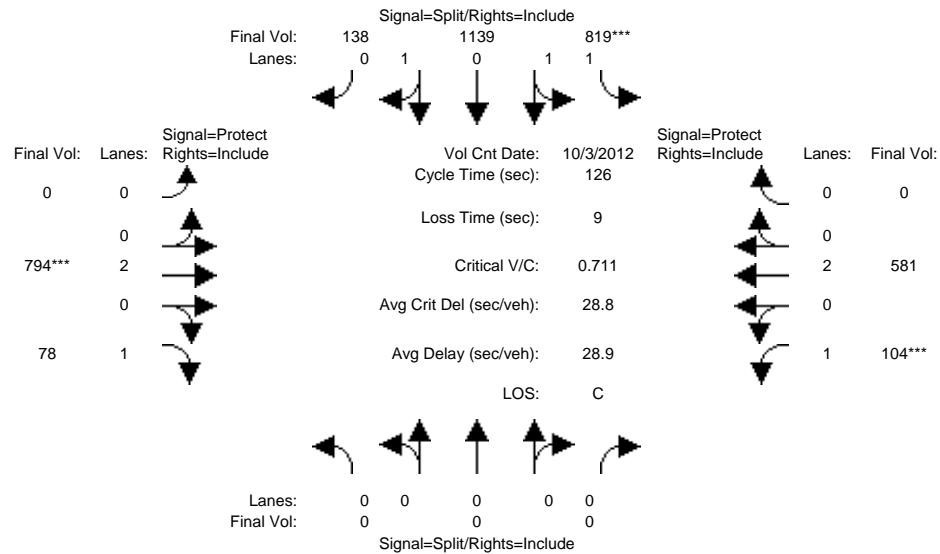## Intersection #3619: KEYES/10TH

```
                            Signal=Split/Rights=Include
              Final Vol:   66***        527         359
              Lanes:        0    1      0      1    1


Final Vol:  Lanes:  Signal=Protect                          Signal=Protect   Lanes:  Final Vol:
                    Rights=Include       Vol Cnt Date: 10/3/2012   Rights=Include
   0***       0                          Cycle Time (sec):   130              0        0

             0                           Loss Time (sec):     9               0

  330        2                           Critical V/C:      0.512             2      1133***

             0                           Avg Crit Del (sec/veh):  24.3        0

  16         1                           Avg Delay (sec/veh):  25.4           1       55

                                         LOS:                 C


              Lanes:        0    0      0      0    0
              Final Vol:    0          0            0
                            Signal=Split/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   0    0    0    10   10   10     0   10   10     7   10    0
Y+R:        4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Oct 2012 << 7:30-8:30AM
Base Vol:     0    0    0   323  440   49     0  282   16    43 1051    0
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:  0    0    0   323  440   49     0  282   16    43 1051    0
Added Vol:    0    0    0     0    0    0     0    0    0     0    0    0
ATI:          0    0    0    36   87   17     0   48    0    12   82    0
Initial Fut:  0    0    0   359  527   66     0  330   16    55 1133    0
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   0    0    0   359  527   66     0  330   16    55 1133    0
Reduct Vol:   0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  0    0    0   359  527   66     0  330   16    55 1133    0
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume:  0    0    0   359  527   66     0  330   16    55 1133    0
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900
Adjustment: 0.92 1.00 0.92 0.92 0.95 0.95 0.92 1.00 0.92 0.92 1.00 0.92
Lanes:      0.00 0.00 0.00 1.15 1.64 0.21 0.00 2.00 1.00 1.00 2.00 0.00
Final Sat.:   0    0    0  2017 2961  371     0 3800 1750  1750 3800    0
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.00 0.00 0.00 0.18 0.18 0.18 0.00 0.09 0.01 0.03 0.30 0.00
Crit Moves:                 **** ****  **** ****           ****
Green Time:  0.0  0.0  0.0 45.2 45.2 45.2  0.0 46.8 46.8  29.0 75.8  0.0
Volume/Cap: 0.00 0.00 0.00 0.51 0.51 0.51 0.00 0.24 0.03 0.14 0.51 0.00
Delay/Veh:   0.0  0.0  0.0 33.9 33.9 33.9  0.0 29.3 26.9  40.7 16.3  0.0
User DelAdj:1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
AdjDel/Veh:  0.0  0.0  0.0 33.9 33.9 33.9  0.0 29.3 26.9  40.7 16.3  0.0
LOS by Move:  A    A    A   C-   C-   C-    A    C    C     D    B    A
HCM2kAvgQ:    0    0    0    11   11   11    0    4    0     2   13    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

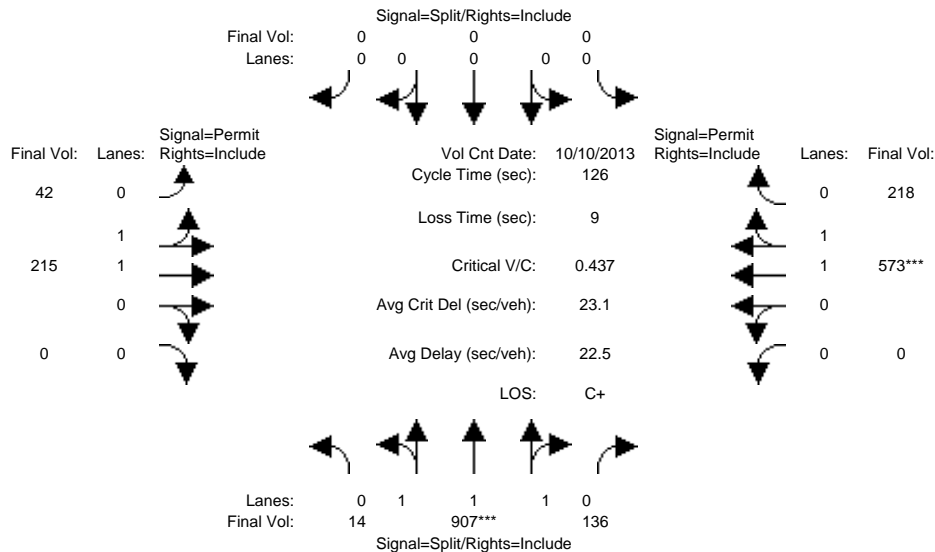## Intersection #3619: KEYES/10TH

```
                              Signal=Split/Rights=Include
                  Final Vol:    138        1139        819***
                  Lanes:      0    1      0       1    1

                               ↙    ↓↓↓   ↓    ↓↘   ↘

         Signal=Protect                                      Signal=Protect
Final Vol: Lanes: Rights=Include        Vol Cnt Date: 10/3/2012   Rights=Include   Lanes:  Final Vol:
                                        Cycle Time (sec):   126
   0      0       ↰                                                   ↱            0        0

          0       ↱↱                     Loss Time (sec):      9     ↰↰            0
 794***   2       →                                                   ←           2        581
          0       ↘→                     Critical V/C:      0.711     ←↙           0
                                         Avg Crit Del (sec/veh): 28.8
  78      1       ↘↓                                                   ↙↓          1       104***

                                         Avg Delay (sec/veh):  28.9

                                         LOS:              C

                               ↖    ↖↑   ↑    ↑→   →

                  Lanes:      0    0      0       0    0
                  Final Vol:    0          0          0
                              Signal=Split/Rights=Include
```

```
Approach:      North Bound      South Bound       East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:    0    0    0   10   10   10    0   10   10    7   10    0
Y+R:         4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Oct 2012 << 4:45-5:45PM
Base Vol:      0    0    0  726  910   69    0  610   30   44  444    0
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:   0    0    0  726  910   69    0  610   30   44  444    0
Added Vol:     0    0    0    0    0    0    0    0    0    0    0    0
ATI:           0    0    0   93  229   69    0  184   48   60  137    0
Initial Fut:   0    0    0  819 1139  138    0  794   78  104  581    0
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:    0    0    0  819 1139  138    0  794   78  104  581    0
Reduct Vol:    0    0    0    0    0    0    0    0    0    0    0    0
Reduced Vol:   0    0    0  819 1139  138    0  794   78  104  581    0
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume:   0    0    0  819 1139  138    0  794   78  104  581    0
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900
Adjustment: 0.92 1.00 0.92 0.92 0.95 0.95 0.92 1.00 0.92 0.92 1.00 0.92
Lanes:      0.00 0.00 0.00 1.19 1.61 0.20 0.00 2.00 1.00 1.00 2.00 0.00
Final Sat.:    0    0    0 2090 2907  352    0 3800 1750 1750 3800    0
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.00 0.00 0.00 0.39 0.39 0.39 0.00 0.21 0.04 0.06 0.15 0.00
Crit Moves:                 ****                ****           ****
Green Time:  0.0  0.0  0.0 69.4 69.4 69.4  0.0 37.0 37.0 10.5 47.6  0.0
Volume/Cap: 0.00 0.00 0.00 0.71 0.71 0.71 0.00 0.71 0.15 0.71 0.41 0.00
Delay/Veh:   0.0  0.0  0.0 21.7 21.7 21.7  0.0 41.9 33.0 71.3 29.0  0.0
User DelAdj:1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
AdjDel/Veh:  0.0  0.0  0.0 21.7 21.7 21.7  0.0 41.9 33.0 71.3 29.0  0.0
LOS by Move:   A    A    A   C+   C+   C+    A    D   C-    E    C    A
HCM2kAvgQ:     0    0    0   22   22   22    0   15    2    6    8    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
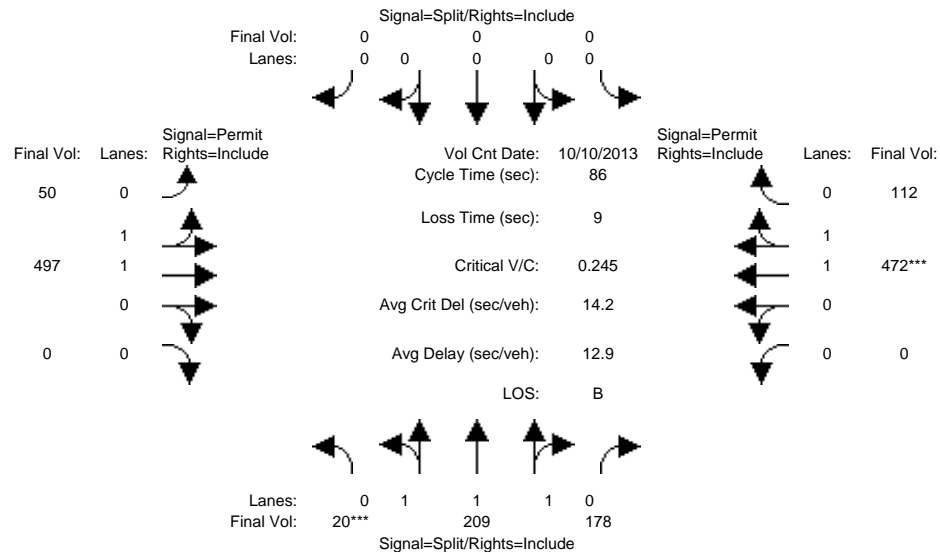Existing (AM)

Intersection #3620: KEYES/THIRD

```
                         Signal=Split/Rights=Include
          Final Vol:        0        0           0
          Lanes:         0     0     0        0     0
```



```
             Signal=Permit                                          Signal=Permit
Final Vol:  Lanes:  Rights=Include    Vol Cnt Date:  10/10/2013    Rights=Include   Lanes:  Final Vol:
                                      Cycle Time (sec):   126
   42     0                                                                           0       218

          1                           Loss Time (sec):      9                        1

  215     1                           Critical V/C:       0.437                       1      573***

          0                           Avg Crit Del (sec/veh):  23.1                   0

    0     0                           Avg Delay (sec/veh):     22.5                   0        0

                                      LOS:                  C+
```

```
          Lanes:        0     1     1        1     0
          Final Vol:       14        907***      136
                         Signal=Split/Rights=Include
```

```
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10     0    0    0    10   10    0     0   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 10 Oct 2013 << 7:45-8:45
Base Vol:     14  907  136     0    0    0    42  215    0     0  573  218
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  14  907  136     0    0    0    42  215    0     0  573  218
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:  14  907  136     0    0    0    42  215    0     0  573  218
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   14  907  136     0    0    0    42  215    0     0  573  218
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  14  907  136     0    0    0    42  215    0     0  573  218
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  14  907  136     0    0    0    42  215    0     0  573  218
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.95 0.97 0.95  0.92 1.00 0.92  0.95 0.98 0.92  0.92 0.98 0.95
Lanes:      0.04 2.57 0.39  0.00 0.00 0.00  0.34 1.66 0.00  0.00 1.43 0.57
Final Sat.:   73 4719  708     0    0    0   605 3095    0     0 2680 1019
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.19 0.19 0.19  0.00 0.00 0.00  0.07 0.07 0.00  0.00 0.21 0.21
Crit Moves:      ****                            ****
Green Time: 55.4 55.4 55.4   0.0  0.0  0.0  61.6 61.6  0.0   0.0 61.6 61.6
Volume/Cap: 0.44 0.44 0.44  0.00 0.00 0.00  0.14 0.14  0.0  0.00 0.44 0.44
Delay/Veh:  24.6 24.6 24.6   0.0  0.0  0.0  17.7 17.7  0.0   0.0 21.1 21.1
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 24.6 24.6 24.6   0.0  0.0  0.0  17.7 17.7  0.0   0.0 21.1 21.1
LOS by Move:   C    C    C     A    A    A     B    B    A     A   C+   C+
HCM2kAvgQ:    10   10   10     0    0    0     3    3    0     0   10   10
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
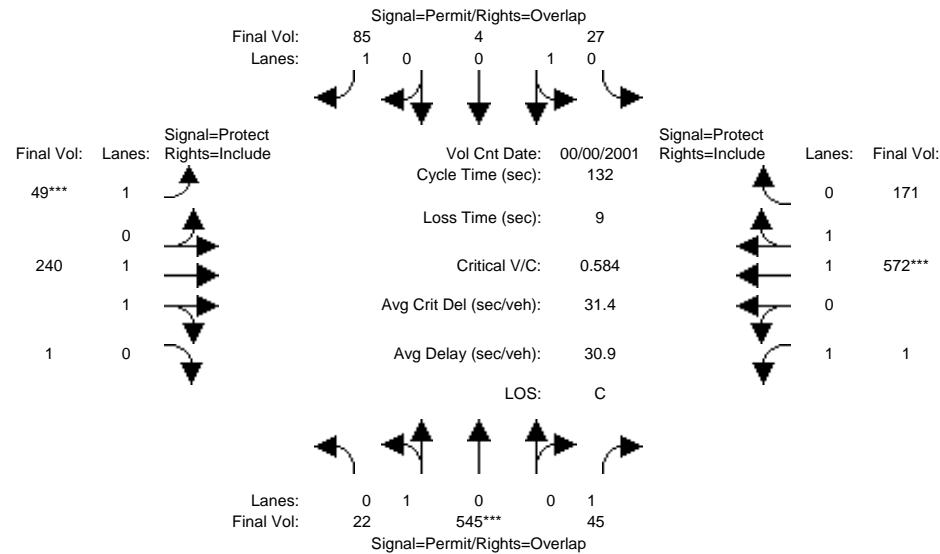Existing (PM)

Intersection #3620: KEYES/THIRD

```
                              Signal=Split/Rights=Include
                Final Vol:        0        0          0
                Lanes:         0    0      0       0    0

                  ↰         ↰↓      ↓      ↳↳      ↱

Signal=Permit                                            Signal=Permit
Final Vol:  Lanes:  Rights=Include   Vol Cnt Date:  10/10/2013   Rights=Include   Lanes:  Final Vol:
                                     Cycle Time (sec):    86
  50        0      ↰                                                         0        112

            1      ↑↑                 Loss Time (sec):     9                 1
 497        1      →                  Critical V/C:      0.245               1        472***
            0      ↳                  Avg Crit Del (sec/veh):  14.2          0

  0         0      ↱                  Avg Delay (sec/veh):     12.9          0         0

                                     LOS:                 B

                  ↰      ↰↑      ↑      ↑↳      ↱

                Lanes:        0    1      1       1    0
                Final Vol:   20***        209          178
                              Signal=Split/Rights=Include
```

```
Approach:        North Bound      South Bound      East Bound       West Bound
Movement:      L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    10   10   10     0    0    0     10   10    0     0   10   10
Y+R:          4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 10 Oct 2013 << 5:00-6:00
Base Vol:      20  209  178     0    0    0     50  497    0     0  472  112
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   20  209  178     0    0    0     50  497    0     0  472  112
Added Vol:      0    0    0     0    0    0      0    0    0     0    0    0
ATI:            0    0    0     0    0    0      0    0    0     0    0    0
Initial Fut:   20  209  178     0    0    0     50  497    0     0  472  112
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    20  209  178     0    0    0     50  497    0     0  472  112
Reduct Vol:     0    0    0     0    0    0      0    0    0     0    0    0
Reduced Vol:   20  209  178     0    0    0     50  497    0     0  472  112
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   20  209  178     0    0    0     50  497    0     0  472  112
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.95 0.98 0.95  0.92 1.00 0.92  0.95 0.98 0.92  0.92 0.98 0.95
Lanes:       0.18 1.82 1.00  0.00 0.00 0.00  0.19 1.81 0.00  0.00 1.61 0.39
Final Sat.:   325 3393 1800     0    0    0    338 3362    0     0 2990  709
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.06 0.06 0.10  0.00 0.00 0.00  0.15 0.15 0.00  0.00 0.16 0.16
Crit Moves:  ****                             ****
Green Time:  29.7 29.7 29.7   0.0  0.0  0.0  47.3 47.3  0.0   0.0 47.3 47.3
Volume/Cap:  0.18 0.18 0.29  0.00 0.00 0.00  0.27 0.27  0.0  0.00 0.29 0.29
Delay/Veh:   19.7 19.7 20.6   0.0  0.0  0.0  10.3 10.3  0.0   0.0 10.4 10.4
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  19.7 19.7 20.6   0.0  0.0  0.0  10.3 10.3  0.0   0.0 10.4 10.4
LOS by Move:   B-   B-   C+    A    A    A     B+   B+   A     A   B+   B+
HCM2kAvgQ:      2    2    4     0    0    0      4    4    0     0    4    4
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

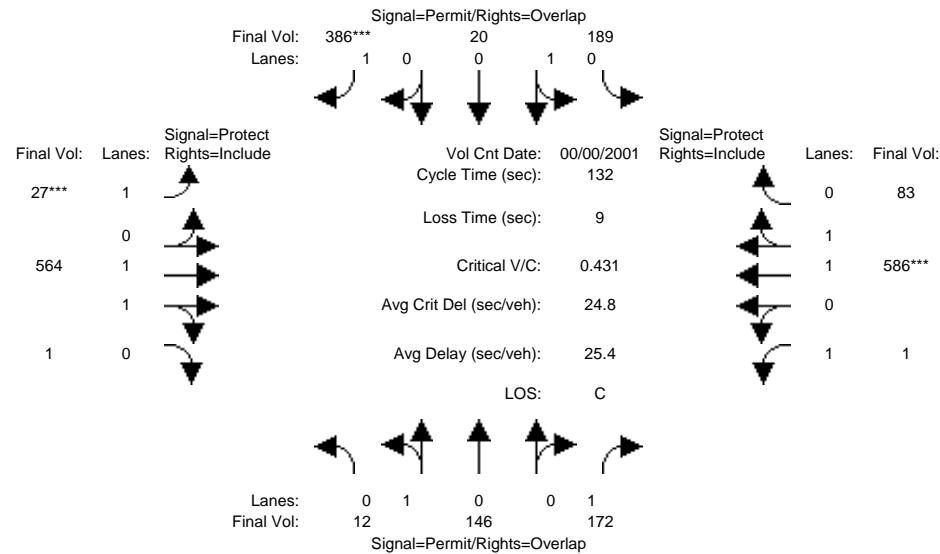## Intersection #3620: KEYES/THIRD

Signal=Permit/Rights=Overlap

Final Vol: 85   4   27
Lanes: 1   0   0   1   0

Signal=Protect   Signal=Protect
Rights=Include   Rights=Include
Final Vol: Lanes: Lanes: Final Vol:

                              Vol Cnt Date: 00/00/2001
49***   1   Cycle Time (sec):   132   0   171

                              Loss Time (sec):   9   1
240   1   Critical V/C: 0.584   1   572***

             1   Avg Crit Del (sec/veh): 31.4   0

1   0   Avg Delay (sec/veh):   30.9   1   1

                              LOS: C

Lanes: 0   1   0   0   1
Final Vol: 22   545***   45

Signal=Permit/Rights=Overlap

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	- T -	R	L	- T -	R	L	- T -	R	L	- T -	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 0 2001 << AM												
Base Vol:	6	475	44	25	4	85	34	200	1	1	522	167
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	6	475	44	25	4	85	34	200	1	1	522	167
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
ATI:	16	70	1	2	0	0	15	40	0	0	50	4
Initial Fut:	22	545	45	27	4	85	49	240	1	1	572	171
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	22	545	45	27	4	85	49	240	1	1	572	171
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	22	545	45	27	4	85	49	240	1	1	572	171
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	22	545	45	27	4	85	49	240	1	1	572	171
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	0.92	0.95	0.95	0.92	0.92	0.97	0.95	0.92	0.98	0.95
Lanes:	0.04	0.96	1.00	0.87	0.13	1.00	1.00	1.99	0.01	1.00	1.53	0.47
Final Sat.:	70	1730	1750	1568	232	1750	1750	3685	15	1750	2848	851
Capacity Analysis Module:												
Vol/Sat:	0.32	0.32	0.03	0.02	0.02	0.05	0.03	0.07	0.07	0.00	0.20	0.20
Crit Moves:		****					****				****	
Green Time:	70.8	70.8	92.3	70.8	70.8	77.8	7.0	30.7	30.7	21.5	45.2	45.2
Volume/Cap:	0.59	0.59	0.04	0.03	0.03	0.08	0.53	0.28	0.28	0.00	0.59	0.59
Delay/Veh:	21.6	21.6	6.1	14.4	14.4	11.7	66.5	41.8	41.8	46.3	36.5	36.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	21.6	21.6	6.1	14.4	14.4	11.7	66.5	41.8	41.8	46.3	36.5	36.5
LOS by Move:	C+	C+	A	B	B	B+	E	D	D	D	D+	D+
HCM2kAvgQ:	16	16	1	1	1	2	3	4	4	0	13	13

Note: Queue reported is the number of cars per lane.

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

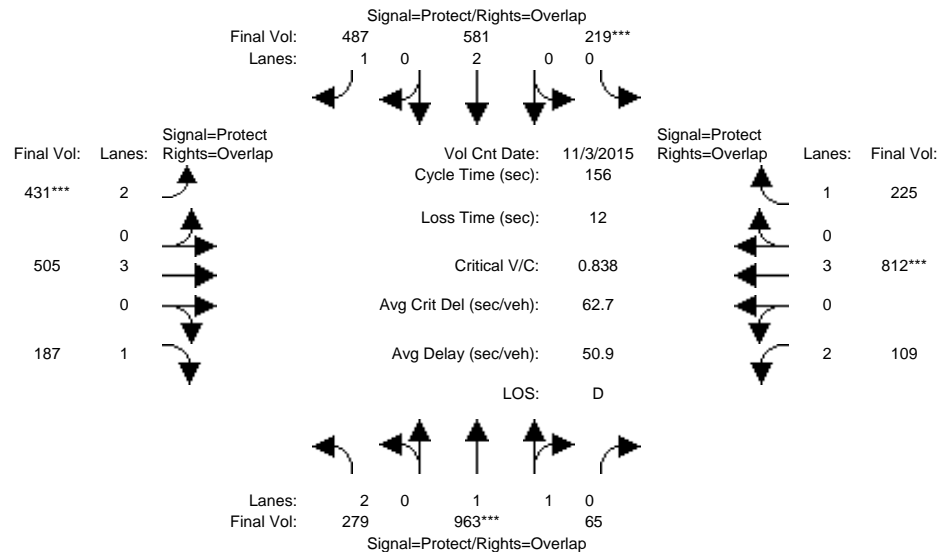## Intersection #3620: KEYES/THIRD

```
                              Signal=Permit/Rights=Overlap
              Final Vol:    386***          20          189
              Lanes:      1     0      0       1     0


Final Vol:  Lanes:  Signal=Protect                              Signal=Protect     Lanes:  Final Vol:
            Rights=Include           Vol Cnt Date: 00/00/2001   Rights=Include
                                     Cycle Time (sec):    132
  27***      1                                                                       0        83

             0                       Loss Time (sec):      9                         1

  564        1                       Critical V/C:      0.431                        1       586***

             1                       Avg Crit Del (sec/veh):  24.8                   0

  1          0                       Avg Delay (sec/veh):  25.4                      1        1

                                     LOS:               C


                              Lanes:      0     1      0       0     1
                              Final Vol:  12          146             172
                              Signal=Permit/Rights=Overlap
```

```
Approach:       North Bound        South Bound        East Bound        West Bound
Movement:     L  -  T  -  R      L  -  T  -  R      L  -  T  -  R      L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10     10   10   10      7   10   10      7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 0  2001 << PM
Base Vol:     11  136   64    178   20  381     25  502    1      1  570   81
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:  11  136   64    178   20  381     25  502    1      1  570   81
Added Vol:     0    0    0      0    0    0      0    0    0      0    0    0
ATI:           1   10  108     11    0    5      2   62    0      0   16    2
Initial Fut:  12  146  172    189   20  386     27  564    1      1  586   83
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:   12  146  172    189   20  386     27  564    1      1  586   83
Reduct Vol:    0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:  12  146  172    189   20  386     27  564    1      1  586   83
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:  12  146  172    189   20  386     27  564    1      1  586   83
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.95 0.95 0.92   0.95 0.95 0.92   0.92 0.97 0.95   0.92 0.98 0.95
Lanes:      0.08 0.92 1.00   0.90 0.10 1.00   1.00 1.99 0.01   1.00 1.75 0.25
Final Sat.:  137 1663 1750   1628  172 1750   1750 3693    7   1750 3241  459
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.09 0.09 0.10   0.12 0.12 0.22   0.02 0.15 0.15   0.00 0.18 0.18
Crit Moves:                            ****   ****                    ****
Green Time: 55.8 55.8 73.1   55.8 55.8 62.8    7.0 49.9 49.9   17.3 60.2 60.2
Volume/Cap: 0.21 0.21 0.18   0.27 0.27 0.46   0.29 0.40 0.40   0.00 0.40 0.40
Delay/Veh:  24.3 24.3 14.7   25.1 25.1 23.7   61.9 30.3 30.3   49.8 24.0 24.0
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 24.3 24.3 14.7   25.1 25.1 23.7   61.9 30.3 30.3   49.8 24.0 24.0
LOS by Move:  C    C    B      C    C    C      E    C    C      D    C    C
HCM2kAvgQ:     4    4    4      6    6   11      1    8    8      0    9    9
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
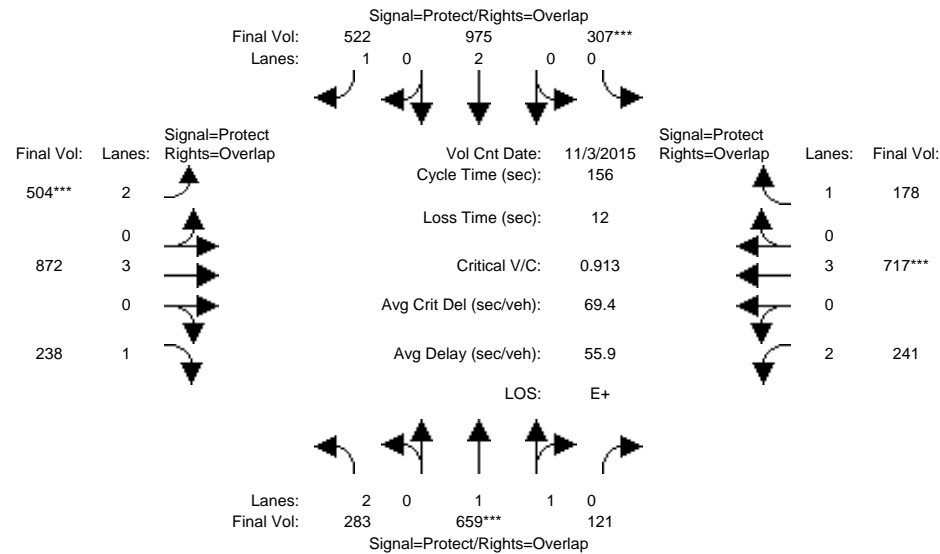Existing (AM)

Intersection #3628: KING/STORY

```
                        Signal=Protect/Rights=Overlap
        Final Vol:      487        581       219***
        Lanes:         1    0      2      0    0

                        ↙   ↓↙    ↓    ↓↘    ↘

Final Vol:  Lanes:  Signal=Protect                      Signal=Protect
                    Rights=Overlap   Vol Cnt Date:  11/3/2015   Rights=Overlap   Lanes:  Final Vol:
431***       2          ↰           Cycle Time (sec):    156                       1      225

             0          ↟           Loss Time (sec):      12         ↡            0
505          3          →                                           ←             3      812***
             0          ↘           Critical V/C:      0.838        ↩            0

187          1          ↓           Avg Crit Del (sec/veh):  62.7    ↰            2      109

                                    Avg Delay (sec/veh):  50.9

                                    LOS:              D

                        ↙   ↖↟    ↟    ↟↗    ↗

        Lanes:         2    0      1      1    0
        Final Vol:     279        963***    65
                        Signal=Protect/Rights=Overlap
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    7   10   10     7   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Nov 2015 << 7:30-8:30
Base Vol:    279  963   65   219  581  487   431  505  187   109  812  225
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 279  963   65   219  581  487   431  505  187   109  812  225
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut: 279  963   65   219  581  487   431  505  187   109  812  225
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  279  963   65   219  581  487   431  505  187   109  812  225
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 279  963   65   219  581  487   431  505  187   109  812  225
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 279  963   65   219  581  487   431  505  187   109  812  225
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.83 0.98 0.95  0.95 0.98 0.92  0.83 1.00 0.92  0.83 1.00 0.92
Lanes:      2.00 1.87 0.13  0.56 1.44 1.00  2.00 3.00 1.00  2.00 3.00 1.00
Final Sat.: 3150 3466  234  1013 2686 1750  3150 5700 1750  3150 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.09 0.28 0.28  0.22 0.22 0.28  0.14 0.09 0.11  0.03 0.14 0.13
Crit Moves:      ****            ****            ****            ****
Green Time: 26.7 51.7 69.2  40.3 65.3 90.7  25.5 34.5 61.2  17.5 26.5 66.8
Volume/Cap: 0.52 0.84 0.63  0.84 0.52 0.48  0.84 0.40 0.27  0.31 0.84 0.30
Delay/Veh:  59.6 53.5 34.2  61.4 34.0 19.3  74.8 52.1 32.4  64.2 69.2 29.5
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 59.6 53.5 34.2  61.4 34.0 19.3  74.8 52.1 32.4  64.2 69.2 29.5
LOS by Move: E+  D-   C-     E   C-   B-     E   D-   C-     E    E    C
HCM2kAvgQ:     8   25   19    21   14   14    14    7    6     3   15    7
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
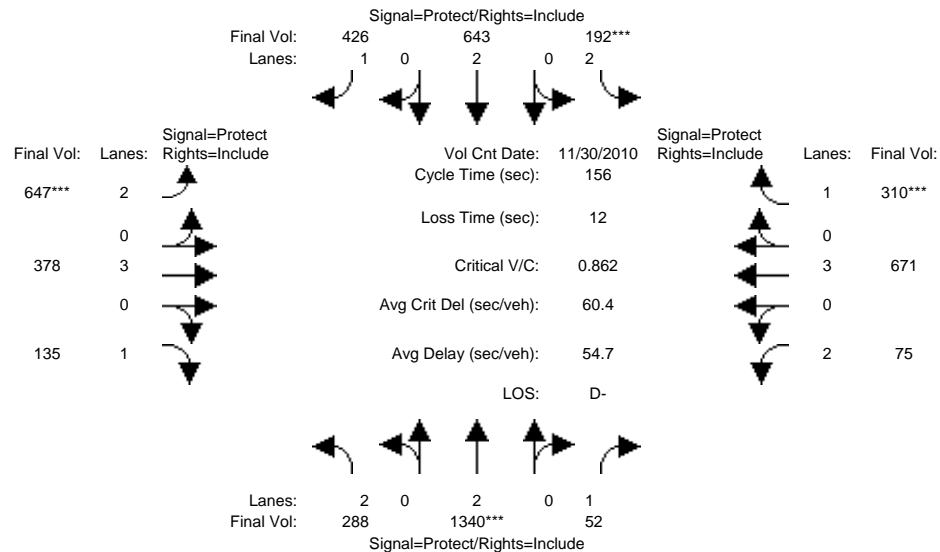Existing (PM)

Intersection #3628: KING/STORY

```
                              Signal=Protect/Rights=Overlap
                  Final Vol:    522        975        307***
                  Lanes:      1    0      2      0      0

                            ↰  ↙↓  ↓  ↘  ↱

Signal=Protect                                              Signal=Protect
Final Vol:  Lanes:  Rights=Overlap                          Rights=Overlap   Lanes:  Final Vol:
                                      Vol Cnt Date:  11/3/2015
504***      2     ↰                   Cycle Time (sec):  156          ↰        1       178

            0     ↑                   Loss Time (sec):   12           ←        0

872         3     →                   Critical V/C:      0.913        ←        3       717***

            0     ↘                   Avg Crit Del (sec/veh):  69.4   ↰        0

238         1     ↓                   Avg Delay (sec/veh):     55.9            2       241

                                      LOS:              E+

                            ↰  ↙↑  ↑  ↑→  ↱

                  Lanes:      2    0      1      1      0
                  Final Vol:    283        659***       121
                              Signal=Protect/Rights=Overlap
```

```
Approach:       North Bound     South Bound     East Bound      West Bound
Movement:     L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    7   10   10     7   10   10     7   10   10     7   10   10
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Nov 2015 << 4:30-5:30
Base Vol:     283  659  121   307  975  522   504  872  238   241  717  178
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  283  659  121   307  975  522   504  872  238   241  717  178
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:  283  659  121   307  975  522   504  872  238   241  717  178
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   283  659  121   307  975  522   504  872  238   241  717  178
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  283  659  121   307  975  522   504  872  238   241  717  178
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  283  659  121   307  975  522   504  872  238   241  717  178
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.83 0.98 0.95  0.95 0.98 0.92  0.83 1.00 0.92  0.83 1.00 0.92
Lanes:       2.00 1.68 0.32  0.49 1.51 1.00  2.00 3.00 1.00  2.00 3.00 1.00
Final Sat.:  3150 3126  574   886 2813 1750  3150 5700 1750  3150 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.09 0.21 0.21  0.35 0.35 0.30  0.16 0.15 0.14  0.08 0.13 0.10
Crit Moves:       ****            ****            ****            ****
Green Time:  19.6 36.0 52.3  59.2 75.6 102.9 27.3 32.5 52.1  16.3 21.5 80.7
Volume/Cap:  0.72 0.91 0.63  0.91 0.72 0.45  0.91 0.73 0.41  0.73 0.91 0.20
Delay/Veh:   71.6 72.6 44.7  55.4 33.1 13.2  82.9 60.1 40.5  76.0 81.4 20.4
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  71.6 72.6 44.7  55.4 33.1 13.2  82.9 60.1 40.5  76.0 81.4 20.4
LOS by Move:   E    E    D    E+   C-    B     F    E    D    E-    F    C+
HCM2kAvgQ:     9   22   16    33   25   13    18   14    9     8   14    5
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

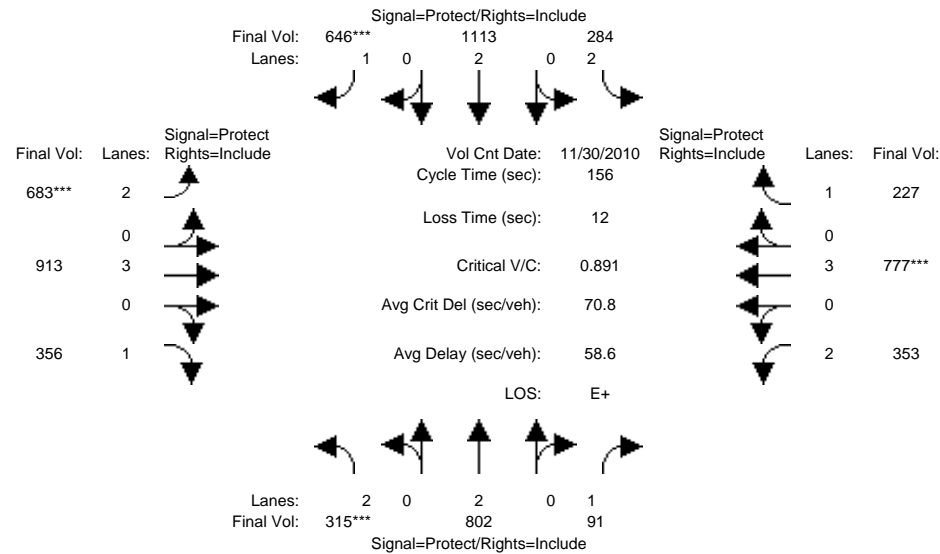### Intersection #3628: KING/STORY

```
                              Signal=Protect/Rights=Include
              Final Vol:    426         643         192***
              Lanes:       1    0      2    0      2

Final Vol:  Lanes:   Signal=Protect                           Signal=Protect      Lanes:   Final Vol:
                     Rights=Include    Vol Cnt Date:  11/30/2010   Rights=Include
                                       Cycle Time (sec):   156
647***        2                                                              1        310***

              0                                                              0
                                       Loss Time (sec):    12
378           3                                                              3        671

              0                        Critical V/C:     0.862               0

                                       Avg Crit Del (sec/veh):  60.4
135           1                                                              2        75
                                       Avg Delay (sec/veh):   54.7

                                       LOS:          D-


              Lanes:       2    0      2    0      1
              Final Vol:    288        1340***       52
                              Signal=Protect/Rights=Include
```

```
Approach:        North Bound      South Bound      East Bound       West Bound
Movement:      L  -  T  -  R     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:     7   10   10     7   10   10     7   10   10      7   10   10
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 30 Nov 2010 << 7:30-8:30AM
Base Vol:     252 1282   45   192  503  367   606  348  108    70  623  310
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:  252 1282   45   192  503  367   606  348  108    70  623  310
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:           36   58    7     0  140   59    41   30   27     5   48    0
Initial Fut:  288 1340   52   192  643  426   647  378  135    75  671  310
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:   288 1340   52   192  643  426   647  378  135    75  671  310
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  288 1340   52   192  643  426   647  378  135    75  671  310
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:  288 1340   52   192  643  426   647  378  135    75  671  310
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900   1900 1900 1900
Adjustment:  0.83 1.00 0.92  0.83 1.00 0.92  0.83 1.00 0.92   0.83 1.00 0.92
Lanes:       2.00 2.00 1.00  2.00 2.00 1.00  2.00 3.00 1.00   2.00 3.00 1.00
Final Sat.:  3150 3800 1750  3150 3800 1750  3150 5700 1750   3150 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.09 0.35 0.03  0.06 0.17 0.24  0.21 0.07 0.08   0.02 0.12 0.18
Crit Moves:       ****            ****            ****                   ****
Green Time:  20.4 63.8 63.8  11.0 54.4 54.4  37.2 43.7 43.7   25.4 32.0 32.0
Volume/Cap:  0.70 0.86 0.07  0.86 0.49 0.70  0.86 0.24 0.28   0.15 0.57 0.86
Delay/Veh:   70.1 47.3 28.1  99.1 40.1 47.3  67.1 43.3 44.1   56.1 56.5 78.6
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:  70.1 47.3 28.1  99.1 40.1 47.3  67.1 43.3 44.1   56.1 56.5 78.6
LOS by Move:    E    D    C     F    D    D     E    D    D    E+   E+   E-
HCM2kAvgQ:      9   31    2     8   12   19    20    5    5     2   10   18
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
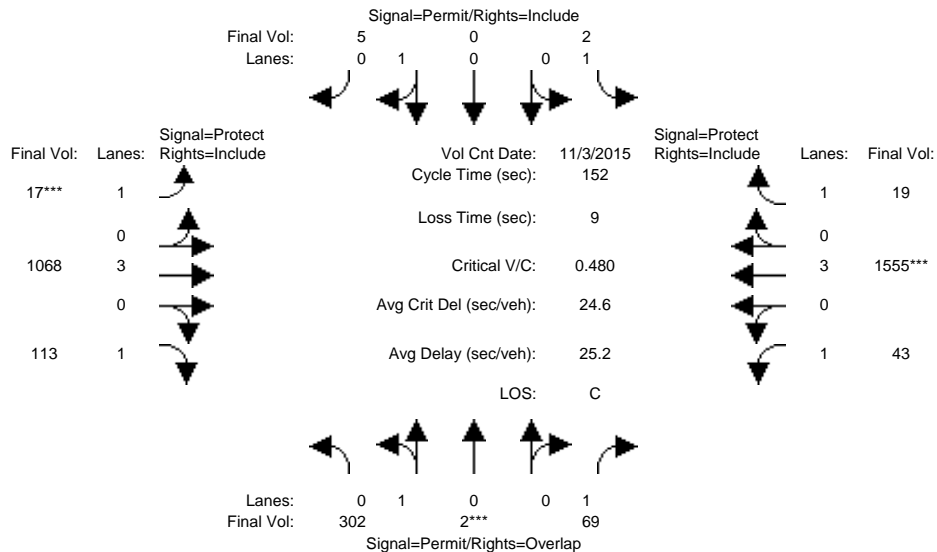Background (PM)

Intersection #3628: KING/STORY

Signal=Protect/Rights=Include

Final Vol: 646***   1113   284
Lanes: 1   0   2   0   2

Signal=Protect
Rights=Include

Final Vol: Lanes: Vol Cnt Date: 11/30/2010   Signal=Protect   Lanes: Final Vol:
                                             Cycle Time (sec):   156   Rights=Include   1   227
683***   2
                                             Loss Time (sec):   12   0
            0
913   3   Critical V/C: 0.891   3   777***
            0   0
                                             Avg Crit Del (sec/veh): 70.8
356   1   Avg Delay (sec/veh):   58.6   2   353

                                             LOS: E+

Lanes: 2   0   2   0   1
Final Vol: 315***   802   91

Signal=Protect/Rights=Include

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 30 Nov 2010 << 4:30-5:30PM												
Base Vol:	251	661	87	284	1050	525	564	827	290	344	693	227
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	251	661	87	284	1050	525	564	827	290	344	693	227
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
ATI:	64	141	4	0	63	121	119	86	66	9	84	0
Initial Fut:	315	802	91	284	1113	646	683	913	356	353	777	227
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	315	802	91	284	1113	646	683	913	356	353	777	227
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	315	802	91	284	1113	646	683	913	356	353	777	227
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	315	802	91	284	1113	646	683	913	356	353	777	227
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92
Lanes:	2.00	2.00	1.00	2.00	2.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	3800	1750	3150	3800	1750	3150	5700	1750	3150	5700	1750
Capacity Analysis Module:												
Vol/Sat:	0.10	0.21	0.05	0.09	0.29	0.37	0.22	0.16	0.20	0.11	0.14	0.13
Crit Moves:	****					****	****				****	
Green Time:	17.5	57.6	57.6	24.6	64.6	64.6	38.0	39.9	39.9	22.0	23.9	23.9
Volume/Cap:	0.89	0.57	0.14	0.57	0.71	0.89	0.89	0.63	0.80	0.80	0.89	0.85
Delay/Veh:	91.6	39.9	32.9	62.4	39.3	55.6	69.6	52.3	63.8	74.5	76.1	85.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	91.6	39.9	32.9	62.4	39.3	55.6	69.6	52.3	63.8	74.5	76.1	85.8
LOS by Move:	F	D	C-	E	D	E+	E	D-	E	E	E-	F
HCM2kAvgQ:	12	15	3	8	22	34	22	13	19	12	15	14

Note: Queue reported is the number of cars per lane.

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)
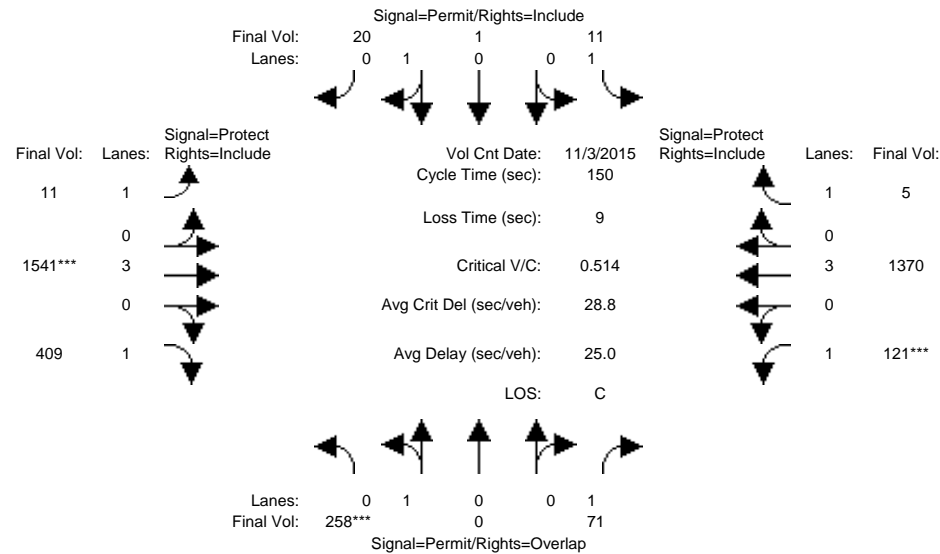
Intersection #3631: KNOX/STORY

Signal=Permit/Rights=Include

| | Final Vol: | 5 | 0 | 2 |
| | Lanes: | 0 | 1 | 0 | 0 | 1 |

Signal=Protect
Rights=Include

Final Vol:	Lanes:			
17***	1	Vol Cnt Date:	11/3/2015	1	19
	0	Cycle Time (sec):	152	0	
1068	3	Critical V/C:	0.480	3	1555***
	0	Avg Crit Del (sec/veh):	24.6	0	
113	1	Avg Delay (sec/veh):	25.2	1	43
		LOS:	C		

Signal=Protect
Rights=Include

| Lanes: | 0 | 1 | 0 | 0 | 1 |
| Final Vol: | 302 | 2*** | 69 |

Signal=Permit/Rights=Overlap

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Nov 2015 << 7:20-8:20
Base Vol:    302    2   69     2    0    5    17 1068  113    43 1555   19
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 302    2   69     2    0    5    17 1068  113    43 1555   19
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut: 302    2   69     2    0    5    17 1068  113    43 1555   19
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  302    2   69     2    0    5    17 1068  113    43 1555   19
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 302    2   69     2    0    5    17 1068  113    43 1555   19
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 302    2   69     2    0    5    17 1068  113    43 1555   19
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.95 0.95 0.92  0.92 1.00 0.95  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      0.99 0.01 1.00  1.00 0.00 1.00  1.00 3.00 1.00  1.00 3.00 1.00
Final Sat.: 1788   12 1750  1750    0 1800  1750 5700 1750  1750 5700 1750
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.17 0.17 0.04  0.00 0.00 0.00  0.01 0.19 0.06  0.02 0.27 0.01
Crit Moves:       ****                             ****            ****
Green Time: 52.0 52.0 70.0  52.0  0.0 52.0   7.0 73.0 73.0  18.0 84.0 84.0
Volume/Cap: 0.49 0.49 0.09  0.00 0.00 0.01  0.21 0.39 0.13  0.21 0.49 0.02
Delay/Veh:  40.2 40.2 23.1  32.9  0.0 33.0  71.1 25.3 22.0  61.1 21.0 15.4
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 40.2 40.2 23.1  32.9  0.0 33.0  71.1 25.3 22.0  61.1 21.0 15.4
LOS by Move:   D    D    C    C-    A   C-     E    C   C+     E   C+    B
HCM2kAvgQ:    12   12    2     0    0    0     1   10    3     2   14    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
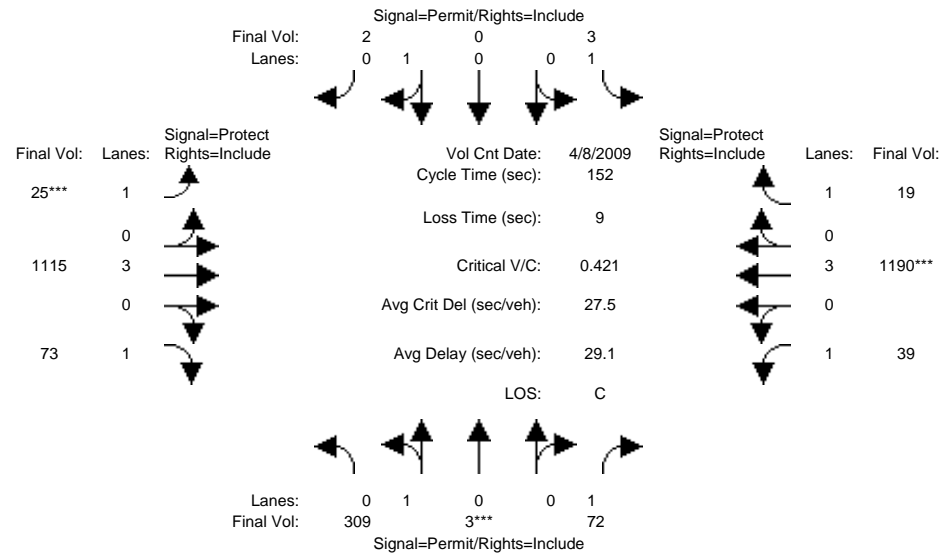Existing (PM)

Intersection #3631: KNOX/STORY

```
                                    Signal=Permit/Rights=Include
                        Final Vol:      20       1        11
                        Lanes:        0    1     0      0    1

Final Vol:  Lanes:  Signal=Protect                                Signal=Protect    Lanes:  Final Vol:
                    Rights=Include                                Rights=Include

   11        1                              Vol Cnt Date:   11/3/2015                  1        5
                                            Cycle Time (sec):    150

            0                               Loss Time (sec):      9                    0

 1541***     3                              Critical V/C:       0.514                  3       1370

            0                               Avg Crit Del (sec/veh):  28.8              0

  409        1                              Avg Delay (sec/veh):   25.0                1      121***

                                            LOS:              C

                        Lanes:        0    1     0      0    1
                        Final Vol:    258***           0        71
                                    Signal=Permit/Rights=Overlap
```

```
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Nov 2015 << 4:15-5:15
Base Vol:     258    0   71    11    1   20    11 1541  409   121 1370    5
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  258    0   71    11    1   20    11 1541  409   121 1370    5
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:            0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:  258    0   71    11    1   20    11 1541  409   121 1370    5
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   258    0   71    11    1   20    11 1541  409   121 1370    5
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  258    0   71    11    1   20    11 1541  409   121 1370    5
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  258    0   71    11    1   20    11 1541  409   121 1370    5
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.95 0.95 0.92  0.92 0.95 0.95  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:       1.00 0.00 1.00  1.00 0.05 0.95  1.00 3.00 1.00  1.00 3.00 1.00
Final Sat.:  1800    0 1750  1750   86 1714  1750 5700 1750  1750 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.14 0.00 0.04  0.01 0.01 0.01  0.01 0.27 0.23  0.07 0.24 0.00
Crit Moves:  ****                                ****             ****
Green Time:  41.9  0.0 62.0  41.9 41.9 41.9  16.1 79.0 79.0  20.2 83.0 83.0
Volume/Cap:  0.51 0.00 0.10  0.02 0.04 0.04  0.06 0.51 0.44  0.51 0.43 0.01
Delay/Veh:   46.4  0.0 26.9  39.2 39.5 39.5  60.3 23.2 22.3  62.3 19.8 15.0
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  46.4  0.0 26.9  39.2 39.5 39.5  60.3 23.2 22.3  62.3 19.8 15.0
LOS by Move:    D    A    C     D    D    D     E    C   C+     E   B-    B
HCM2kAvgQ:     11    0    2     0    1    1     1   15   12     6   12    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
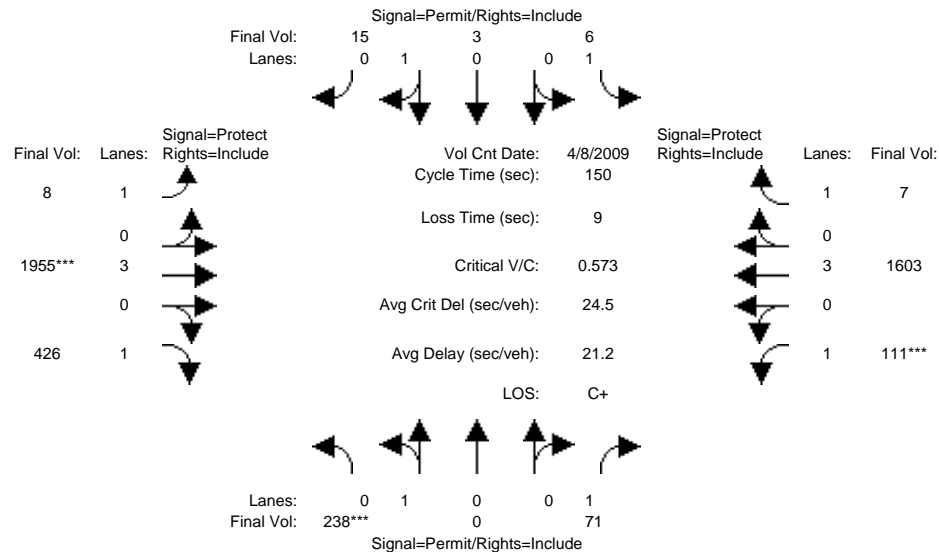Background (AM)

Intersection #3631: KNOX/STORY

```
                          Signal=Permit/Rights=Include
              Final Vol:    2         0          3
              Lanes:    0   1         0      0   1

              Signal=Protect
Final Vol:  Lanes:  Rights=Include        Vol Cnt Date:  4/8/2009        Signal=Protect   Lanes:  Final Vol:
                                          Cycle Time (sec):   152        Rights=Include
   25***     1                                                                              1        19

             0                            Loss Time (sec):     9                            0

 1115        3                            Critical V/C:      0.421                          3      1190***

             0                            Avg Crit Del (sec/veh):  27.5                     0

   73        1                            Avg Delay (sec/veh):  29.1                        1        39

                                          LOS:              C

              Lanes:    0   1         0      0   1
              Final Vol:   309       3***        72
                          Signal=Permit/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|----------------||---------------||---------------||---------------|
Min. Green:  10   10   10     10   10   10      7   10   10      7   10   10
Y+R:        4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|----------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 8 Apr 2009 << 7:45-8:45AM
Base Vol:    309    3   72      3    0    2     25 1022   73     39 1050   19
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse: 309    3   72      3    0    2     25 1022   73     39 1050   19
Added Vol:     0    0    0      0    0    0      0    0    0      0    0    0
ATI:           0    0    0      0    0    0      0   93    0      0  140    0
Initial Fut: 309    3   72      3    0    2     25 1115   73     39 1190   19
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:  309    3   72      3    0    2     25 1115   73     39 1190   19
Reduct Vol:    0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol: 309    3   72      3    0    2     25 1115   73     39 1190   19
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume: 309    3   72      3    0    2     25 1115   73     39 1190   19
------------|----------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.95 0.95 0.92   0.92 1.00 0.95   0.92 1.00 0.92   0.92 1.00 0.92
Lanes:      0.99 0.01 1.00   1.00 0.00 1.00   1.00 3.00 1.00   1.00 3.00 1.00
Final Sat.: 1783   17 1750   1750    0 1800   1750 5700 1750   1750 5700 1750
------------|----------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.17 0.17 0.04   0.00 0.00 0.00   0.01 0.20 0.04   0.02 0.21 0.01
Crit Moves:      ****                 ****           ****             ****
Green Time: 61.7 61.7 61.7   61.7  0.0 61.7    7.0 65.8 65.8   15.5 74.3 74.3
Volume/Cap: 0.43 0.43 0.10   0.00 0.00 0.00   0.31 0.45 0.10   0.22 0.43 0.02
Delay/Veh:  32.9 32.9 28.0   26.9  0.0 26.9   72.4 30.5 25.6   63.3 25.2 20.1
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 32.9 32.9 28.0   26.9  0.0 26.9   72.4 30.5 25.6   63.3 25.2 20.1
LOS by Move: C-   C-    C      C    A    C      E    C    C      E    C    C+
HCM2kAvgQ:    11   11    2      0    0    0      2   12    2      2   12    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)
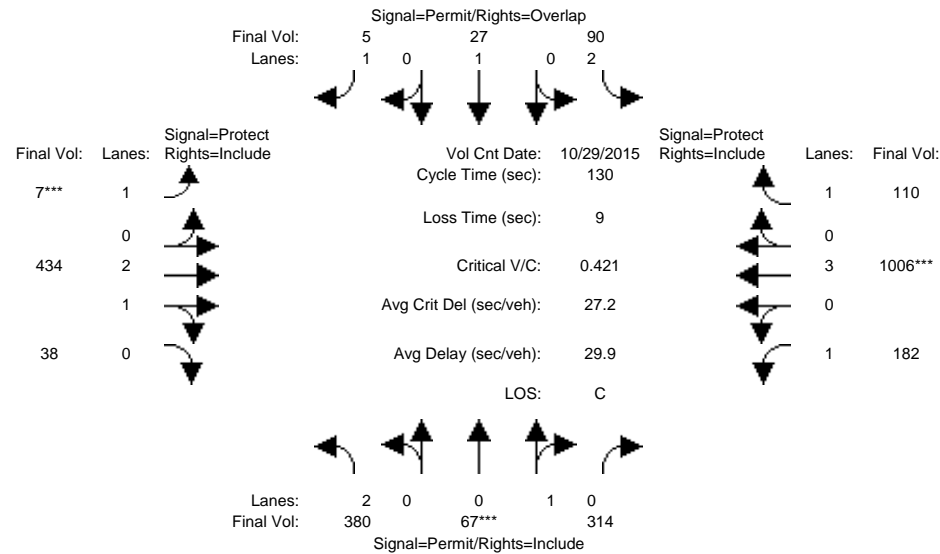
Intersection #3631: KNOX/STORY

```
                        Signal=Permit/Rights=Include
            Final Vol:       15        3        6
            Lanes:        0   1     0     0   1
```



```
                   Signal=Protect                                    Signal=Protect
Final Vol:  Lanes: Rights=Include                                    Rights=Include   Lanes:  Final Vol:

   8          1                      Vol Cnt Date:   4/8/2009                           1        7
                                     Cycle Time (sec):   150
              0                                                                         0
                                     Loss Time (sec):      9
 1955***      3                                                                         3       1603
                                     Critical V/C:      0.573
              0                                                                         0
                                     Avg Crit Del (sec/veh):  24.5
  426         1                                                                         1       111***
                                     Avg Delay (sec/veh):     21.2

                                     LOS:               C+
```



```
            Lanes:         0   1     0     0   1
            Final Vol:      238***        0        71
                        Signal=Permit/Rights=Include
```

```
Approach:     North Bound      South Bound       East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 8 Apr 2009 << 4:30-5:30PM
Base Vol:    238    0   71     6    3   15     8 1684  426   111 1338    7
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 238    0   71     6    3   15     8 1684  426   111 1338    7
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0  271    0     0  265    0
Initial Fut: 238    0   71     6    3   15     8 1955  426   111 1603    7
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  238    0   71     6    3   15     8 1955  426   111 1603    7
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 238    0   71     6    3   15     8 1955  426   111 1603    7
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 238    0   71     6    3   15     8 1955  426   111 1603    7
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.95 0.95 0.92  0.92 0.95 0.95  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      1.00 0.00 1.00  1.00 0.17 0.83  1.00 3.00 1.00  1.00 3.00 1.00
Final Sat.: 1800    0 1750  1750  300 1500  1750 5700 1750  1750 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.13 0.00 0.04  0.00 0.01 0.01  0.00 0.34 0.24  0.06 0.28 0.00
Crit Moves: ****                                   ****      ****
Green Time: 34.6  0.0 34.6  34.6 34.6 34.6  15.1 89.8 89.8  16.6 91.2 91.2
Volume/Cap: 0.57 0.00 0.18  0.01 0.04 0.04  0.05 0.57 0.41  0.57 0.46 0.01
Delay/Veh:  53.1  0.0 46.5  44.5 44.9 44.9  61.0 18.6 16.2  67.4 16.1 11.6
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 53.1  0.0 46.5  44.5 44.9 44.9  61.0 18.6 16.2  67.4 16.1 11.6
LOS by Move: D-    A    D     D    D    D     E   B-    B     E    B   B+
HCM2kAvgQ:    11    0    3     0    1    1     0   18   11     6   13    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
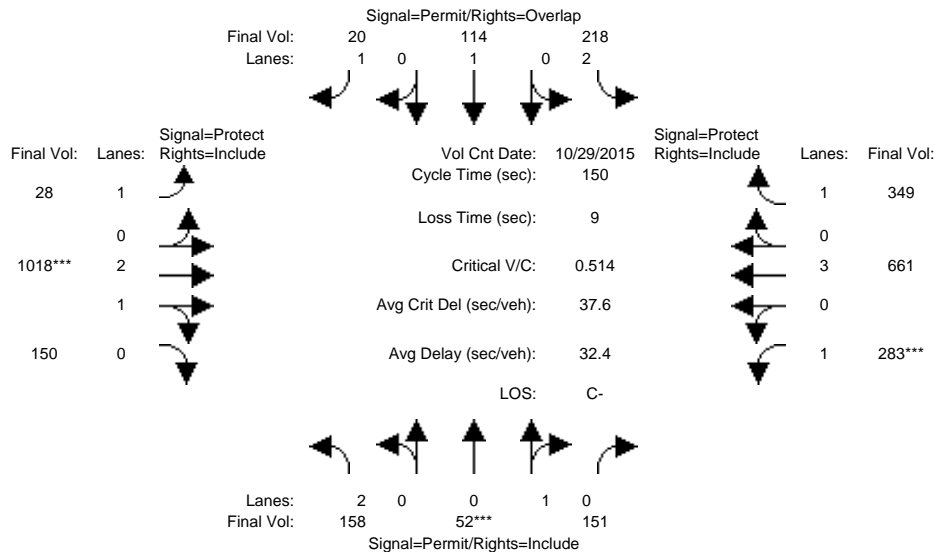Existing (AM)

Intersection #3658: LUCRETIA/STORY

Signal=Permit/Rights=Overlap

| | Final Vol: | 5 | 27 | 90 |
| | Lanes: | 1   0 | 1   0 | 2 |

Final Vol:	Lanes:	Signal=Protect Rights=Include			Signal=Protect Rights=Include	Lanes:	Final Vol:
7***	1		Vol Cnt Date:	10/29/2015		1	110
	0		Cycle Time (sec):	130		0	
			Loss Time (sec):	9			
434	2		Critical V/C:	0.421		3	1006***
	1		Avg Crit Del (sec/veh):	27.2		0	
38	0		Avg Delay (sec/veh):	29.9		1	182
			LOS:	C			

| | Lanes: | 2   0 | 0 | 1   0 |
| | Final Vol: | 380 | 67*** | 314 |

Signal=Permit/Rights=Include

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10      7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 29 Oct 2015 << 7:20-8:20
Base Vol:    380   67  314    90   27    5     7  434   38    182 1006  110
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse: 380   67  314    90   27    5     7  434   38    182 1006  110
Added Vol:     0    0    0     0    0    0     0    0    0      0    0    0
ATI:           0    0    0     0    0    0     0    0    0      0    0    0
Initial Fut: 380   67  314    90   27    5     7  434   38    182 1006  110
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:  380   67  314    90   27    5     7  434   38    182 1006  110
Reduct Vol:    0    0    0     0    0    0     0    0    0      0    0    0
Reduced Vol: 380   67  314    90   27    5     7  434   38    182 1006  110
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume: 380   67  314    90   27    5     7  434   38    182 1006  110
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900   1900 1900 1900
Adjustment: 0.83 0.95 0.95  0.83 1.00 0.92  0.92 0.99 0.95   0.92 1.00 0.92
Lanes:      2.00 0.18 0.82  2.00 1.00 1.00  1.00 2.75 0.25   1.00 3.00 1.00
Final Sat.: 3150  317 1483  3150 1900 1750  1750 5149  451   1750 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.12 0.21 0.21  0.03 0.01 0.00  0.00 0.08 0.08   0.10 0.18 0.06
Crit Moves:       ****                ****            ****
Green Time: 62.2 62.2 62.2  62.2 62.2 69.2   7.0 26.3 26.3   32.5 51.8 51.8
Volume/Cap: 0.25 0.44 0.44  0.06 0.03 0.01  0.07 0.42 0.42   0.42 0.44 0.16
Delay/Veh:  20.2 22.8 22.8  18.2 18.0 14.3  58.8 45.4 45.4   41.5 28.7 25.2
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 20.2 22.8 22.8  18.2 18.0 14.3  58.8 45.4 45.4   41.5 28.7 25.2
LOS by Move:  C+   C+   C+    B-    B    B    E+    D    D      D    C    C
HCM2kAvgQ:     5   10   10     1    1    0     0    6    6      7   10    3
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
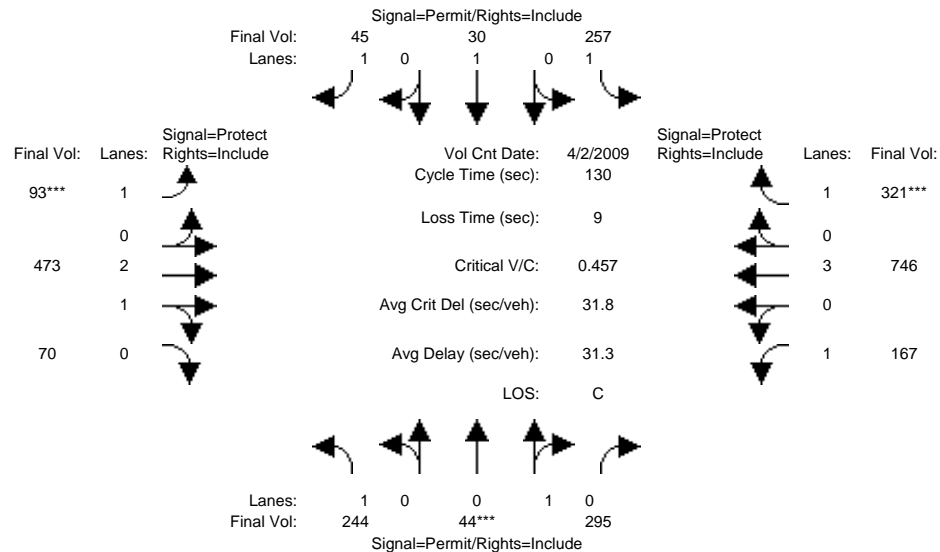Existing (PM)

Intersection #3658: LUCRETIA/STORY

Signal=Permit/Rights=Overlap
Final Vol: 20   114   218
Lanes: 1   0   1   0   2

	Signal=Protect Rights=Include					Signal=Protect Rights=Include		

Final Vol: Lanes: Signal=Protect Rights=Include   Vol Cnt Date: 10/29/2015   Signal=Protect Rights=Include   Lanes: Final Vol:

28   1   Cycle Time (sec):   150   1   349

          0   Loss Time (sec):   9   0

1018***   2   Critical V/C: 0.514   3   661

          1   Avg Crit Del (sec/veh): 37.6   0

150   0   Avg Delay (sec/veh):   32.4   1   283***

                                     LOS: C-

Lanes: 2   0   0   1   0
Final Vol: 158   52***   151
Signal=Permit/Rights=Include

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 29 Oct 2015 << 5:00-6:00
Base Vol:    158   52  151   218  114   20    28 1018  150   283  661  349
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 158   52  151   218  114   20    28 1018  150   283  661  349
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut: 158   52  151   218  114   20    28 1018  150   283  661  349
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  158   52  151   218  114   20    28 1018  150   283  661  349
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 158   52  151   218  114   20    28 1018  150   283  661  349
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 158   52  151   218  114   20    28 1018  150   283  661  349
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.83 0.95 0.95  0.83 1.00 0.92  0.92 0.99 0.95  0.92 1.00 0.92
Lanes:      2.00 0.26 0.74  2.00 1.00 1.00  1.00 2.60 0.40  1.00 3.00 1.00
Final Sat.: 3150  461 1339  3150 1900 1750  1750 4880  719  1750 5700 1750
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.05 0.11 0.11  0.07 0.06 0.01  0.02 0.21 0.21  0.16 0.12 0.20
Crit Moves:       ****            ****                 ****       ****
Green Time: 32.9 32.9 32.9  32.9 32.9 53.4  20.5 60.9 60.9  47.2 87.6 87.6
Volume/Cap: 0.23 0.51 0.51  0.32 0.27 0.03  0.12 0.51 0.51  0.51 0.20 0.34
Delay/Veh:  48.3 52.7 52.7  49.4 49.0 31.5  57.0 33.7 33.7  42.9 14.7 16.4
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 48.3 52.7 52.7  49.4 49.0 31.5  57.0 33.7 33.7  42.9 14.7 16.4
LOS by Move:  D   D-   D-     D    D    C    E+   C-   C-     D    B    B
HCM2kAvgQ:    4    9    9     5    4    1     1   13   13    11    5    9
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

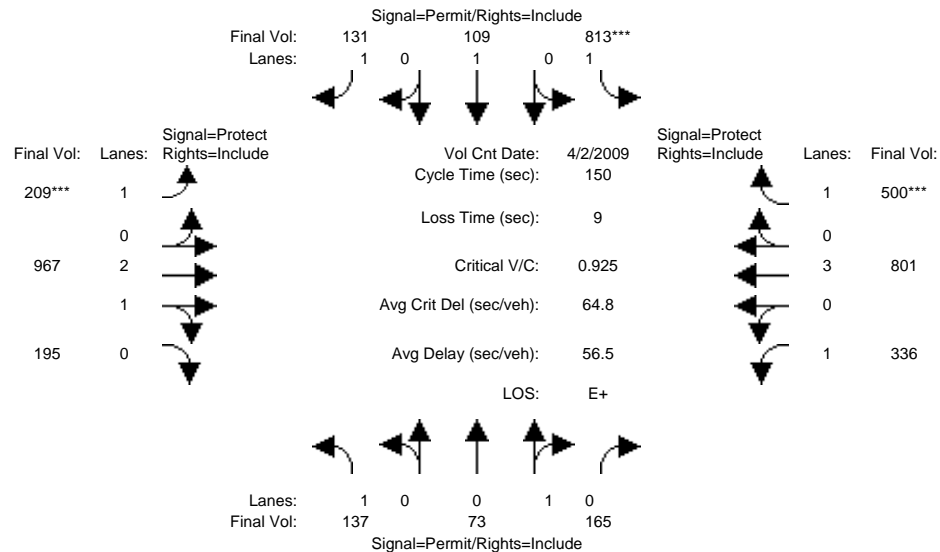## Intersection #3658: LUCRETIA/STORY

Signal=Permit/Rights=Include

	Final Vol:	45	30	257
	Lanes:	1	0	1	0	1

Final Vol:	Lanes:	Signal=Protect Rights=Include		Vol Cnt Date:	4/2/2009	Signal=Protect Rights=Include	Lanes:	Final Vol:
93***	1			Cycle Time (sec):	130		1	321***
	0			Loss Time (sec):	9		0	
473	2			Critical V/C:	0.457		3	746
	1			Avg Crit Del (sec/veh):	31.8		0	
70	0			Avg Delay (sec/veh):	31.3		1	167
				LOS:	C			

	Lanes:	1	0	0	1	0
	Final Vol:	244		44***		295

Signal=Permit/Rights=Include

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 2 Apr 2009 << 7:30-8:30AM
Base Vol:    244   27  295    63   18    7     9  473   70   167  746  130
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 244   27  295    63   18    7     9  473   70   167  746  130
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0   17    0   194   12   38    84    0    0     0    0  191
Initial Fut: 244   44  295   257   30   45    93  473   70   167  746  321
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  244   44  295   257   30   45    93  473   70   167  746  321
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 244   44  295   257   30   45    93  473   70   167  746  321
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 244   44  295   257   30   45    93  473   70   167  746  321
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.95 0.95  0.92 1.00 0.92  0.92 0.99 0.95  0.92 1.00 0.92
Lanes:      1.00 0.13 0.87  1.00 1.00 1.00  1.00 2.60 0.40  1.00 3.00 1.00
Final Sat.: 1750  234 1566  1750 1900 1750  1750 4877  722  1750 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.14 0.19 0.19  0.15 0.02 0.03  0.05 0.10 0.10  0.10 0.13 0.18
Crit Moves:      ****                 ****             ****             ****
Green Time: 53.6 53.6 53.6  53.6 53.6 53.6  15.1 34.0 34.0  33.4 52.2 52.2
Volume/Cap: 0.34 0.46 0.46  0.36 0.04 0.06  0.46 0.37 0.37  0.37 0.33 0.46
Delay/Veh:  26.3 28.1 28.1  26.6 22.8 23.1  55.2 39.4 39.4  40.2 26.8 29.0
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 26.3 28.1 28.1  26.6 22.8 23.1  55.2 39.4 39.4  40.2 26.8 29.0
LOS by Move:   C    C    C     C   C+    C    E+    D    D     D    C    C
HCM2kAvgQ:     7   10   10     7    1    1     4    6    6     6    7   10
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

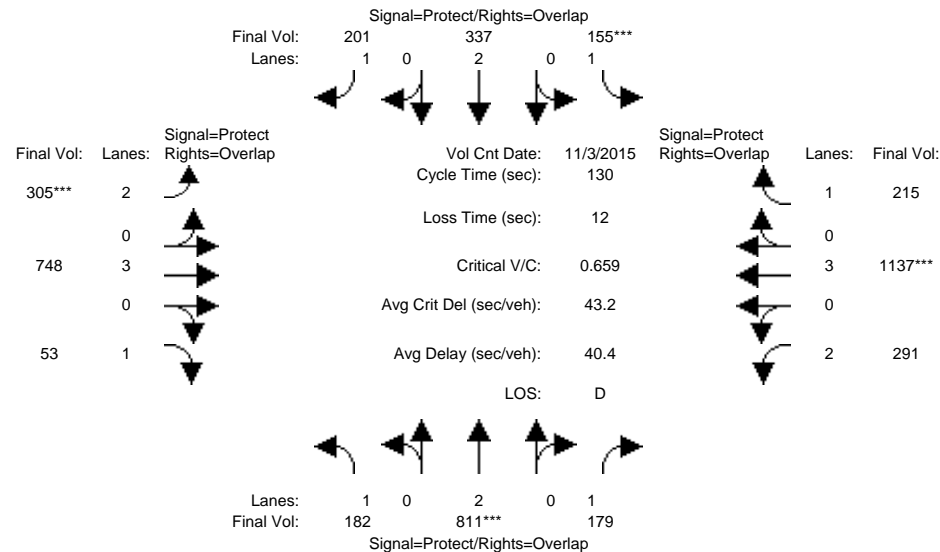Intersection #3658: LUCRETIA/STORY

```
                              Signal=Permit/Rights=Include
            Final Vol:        131         109         813***
            Lanes:             1     0      1     0      1


   Signal=Protect
   Rights=Include                                      Signal=Protect
Final Vol:  Lanes:                  Vol Cnt Date:  4/2/2009   Rights=Include  Lanes:  Final Vol:
                               Cycle Time (sec):    150
209***    1                                                             1    500***

          0                    Loss Time (sec):      9                  0

967       2                    Critical V/C:        0.925              3    801

          1                    Avg Crit Del (sec/veh):  64.8           0

195       0                    Avg Delay (sec/veh):  56.5              1    336

                               LOS:                  E+


            Lanes:             1     0      0     1     0
            Final Vol:        137          73         165
                              Signal=Permit/Rights=Include
```

```
Approach:      North Bound     South Bound     East Bound      West Bound
Movement:    L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 2 Apr 2009 << 5:00-6:00PM
Base Vol:    137   37  165   238   73   17    32  967  195   336  801  300
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 137   37  165   238   73   17    32  967  195   336  801  300
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0   36    0   575   36  114   177    0    0     0    0  200
Initial Fut: 137   73  165   813  109  131   209  967  195   336  801  500
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  137   73  165   813  109  131   209  967  195   336  801  500
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 137   73  165   813  109  131   209  967  195   336  801  500
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 137   73  165   813  109  131   209  967  195   336  801  500
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 0.95 0.95  0.92 1.00 0.92  0.92 0.99 0.95  0.92 1.00 0.92
Lanes:      1.00 0.31 0.69  1.00 1.00 1.00  1.00 2.48 0.52  1.00 3.00 1.00
Final Sat.: 1750  552 1248  1750 1900 1750  1750 4659  940  1750 5700 1750
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.08 0.13 0.13  0.46 0.06 0.07  0.12 0.21 0.21  0.19 0.14 0.29
Crit Moves:                ****            ****                        ****
Green Time: 75.3 75.3 75.3  75.3 75.3 75.3  19.4 34.1 34.1  31.6 46.3 46.3
Volume/Cap: 0.16 0.26 0.26  0.93 0.11 0.15  0.93 0.91 0.91  0.91 0.46 0.93
Delay/Veh:  20.3 21.6 21.6  50.1 19.8 20.2 104.4 66.6 66.6  84.2 41.9 72.1
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 20.3 21.6 21.6  50.1 19.8 20.2 104.4 66.6 66.6  84.2 41.9 72.1
LOS by Move:  C+   C+   C+    D   B-   C+     F    E    E     F    D    E
HCM2kAvgQ:     4    6    6    41    3    3    14   21   21    20   10   28
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

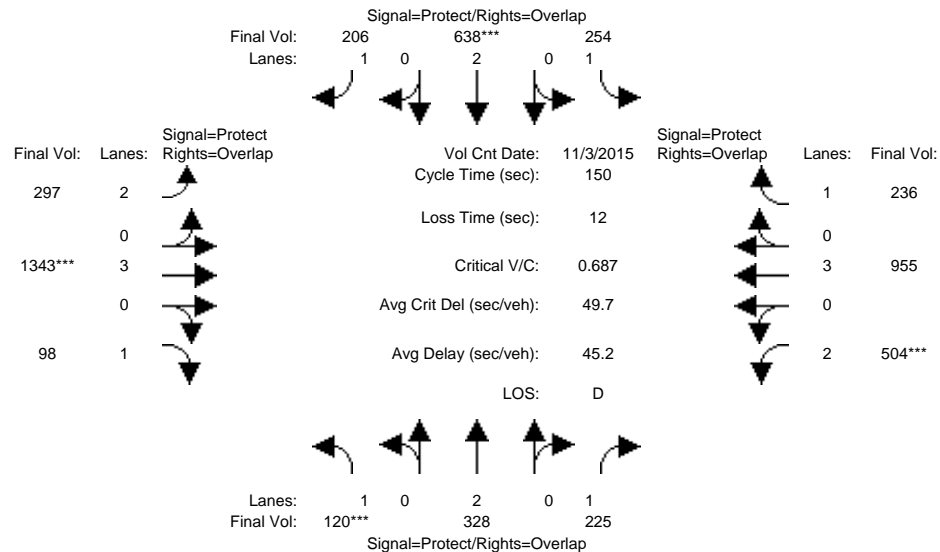## Intersection #3683: McLAUGHLIN/STORY

Signal=Protect/Rights=Overlap

Final Vol:	201	337	155***		
Lanes:	1	0	2	0	1

		Signal=Protect		Signal=Protect		
Final Vol:	Lanes:	Rights=Overlap		Rights=Overlap	Lanes:	Final Vol:
			Vol Cnt Date:	11/3/2015		
305***	2		Cycle Time (sec):	130	1	215
	0		Loss Time (sec):	12	0	
748	3		Critical V/C:	0.659	3	1137***
	0		Avg Crit Del (sec/veh):	43.2	0	
53	1		Avg Delay (sec/veh):	40.4	2	291
			LOS:	D		

Lanes:	1	0	2	0	1
Final Vol:	182	811***	179		

Signal=Protect/Rights=Overlap

```
Approach:    North Bound     South Bound     East Bound      West Bound
Movement:    L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:   7   10   10     7   10   10     7   10   10     7   10   10
Y+R:        4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Nov 2015 << 7:30-8:30
Base Vol:   182  811  179   155  337  201   305  748   53   291 1137  215
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 182  811  179   155  337  201   305  748   53   291 1137  215
Added Vol:    0    0    0     0    0    0     0    0    0     0    0    0
ATI:          0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut: 182  811  179   155  337  201   305  748   53   291 1137  215
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume: 182  811  179   155  337  201   305  748   53   291 1137  215
Reduct Vol:   0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 182  811  179   155  337  201   305  748   53   291 1137  215
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 182  811  179   155  337  201   305  748   53   291 1137  215
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 1.00 0.92  0.92 1.00 0.92  0.83 1.00 0.92  0.83 1.00 0.92
Lanes:      1.00 2.00 1.00  1.00 2.00 1.00  2.00 3.00 1.00  2.00 3.00 1.00
Final Sat.: 1750 3800 1750  1750 3800 1750  3150 5700 1750  3150 5700 1750
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.10 0.21 0.10  0.09 0.09 0.11  0.10 0.13 0.03  0.09 0.20 0.12
Crit Moves:       ****            ****            ****            ****
Green Time: 32.1 42.1 66.2  17.5 27.4 46.5  19.1 34.3 66.4  24.1 39.3 56.8
Volume/Cap: 0.42 0.66 0.20  0.66 0.42 0.32  0.66 0.50 0.06  0.50 0.66 0.28
Delay/Veh:  41.8 39.1 17.5  60.2 44.8 30.6  55.9 40.8 16.0  48.2 40.4 23.7
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 41.8 39.1 17.5  60.2 44.8 30.6  55.9 40.8 16.0  48.2 40.4 23.7
LOS by Move:  D    D    B     E    D    C     E+   D    B     D    D    C
HCM2kAvgQ:    7   14    4     7    6    6     8    9    1     7   14    6
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (PM)

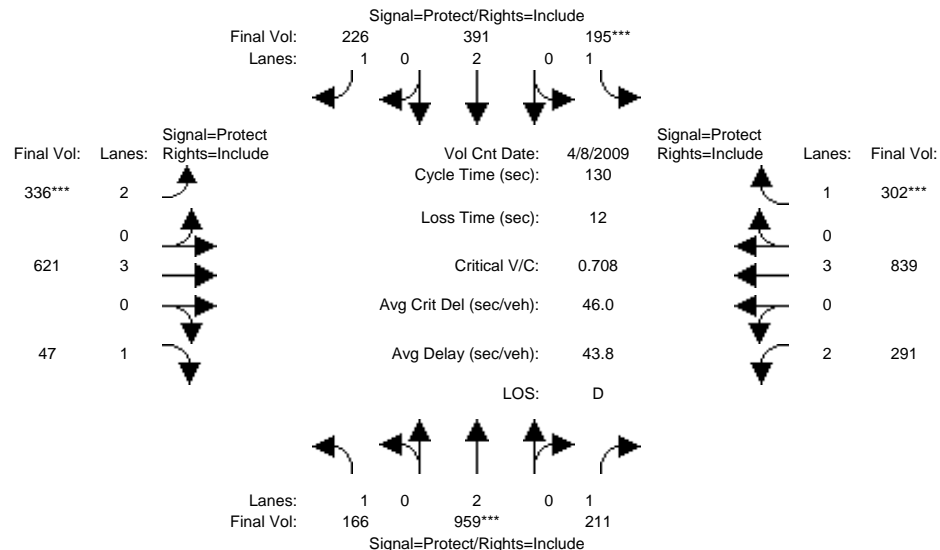## Intersection #3683: McLAUGHLIN/STORY

Signal=Protect/Rights=Overlap

| | Final Vol: | 206 | 638*** | 254 |
| | Lanes: | 1   0 | 2 | 0   1 |

Final Vol:	Lanes:	Signal=Protect Rights=Overlap			Signal=Protect Rights=Overlap	Lanes:	Final Vol:
			Vol Cnt Date:	11/3/2015			
297	2		Cycle Time (sec):	150		1	236
	0		Loss Time (sec):	12		0	
1343***	3		Critical V/C:	0.687		3	955
	0		Avg Crit Del (sec/veh):	49.7		0	
98	1		Avg Delay (sec/veh):	45.2		2	504***
			LOS:	D			

| | Lanes: | 1   0 | 2 | 0   1 |
| | Final Vol: | 120*** | 328 | 225 |

Signal=Protect/Rights=Overlap

```
Approach:       North Bound     South Bound     East Bound      West Bound
Movement:       L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:     7   10   10    7   10   10    7   10   10    7   10   10
Y+R:          4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 3 Nov 2015 << 5:00-6:00
Base Vol:     120  328  225  254  638  206  297 1343   98  504  955  236
Growth Adj:  1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:  120  328  225  254  638  206  297 1343   98  504  955  236
Added Vol:      0    0    0    0    0    0    0    0    0    0    0    0
ATI:            0    0    0    0    0    0    0    0    0    0    0    0
Initial Fut:  120  328  225  254  638  206  297 1343   98  504  955  236
User Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   120  328  225  254  638  206  297 1343   98  504  955  236
Reduct Vol:     0    0    0    0    0    0    0    0    0    0    0    0
Reduced Vol:  120  328  225  254  638  206  297 1343   98  504  955  236
PCE Adj:     1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume:  120  328  225  254  638  206  297 1343   98  504  955  236
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900
Adjustment:  0.92 1.00 0.92 0.92 1.00 0.92 0.83 1.00 0.92 0.83 1.00 0.92
Lanes:       1.00 2.00 1.00 1.00 2.00 1.00 2.00 3.00 1.00 2.00 3.00 1.00
Final Sat.:  1750 3800 1750 1750 3800 1750 3150 5700 1750 3150 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.07 0.09 0.13 0.15 0.17 0.12 0.09 0.24 0.06 0.16 0.17 0.13
Crit Moves:  ****           ****           ****           ****
Green Time:  15.0 19.3 54.2 32.4 36.7 67.8 31.1 51.4 66.4 34.9 55.3 87.6
Volume/Cap:  0.69 0.67 0.36 0.67 0.69 0.26 0.45 0.69 0.13 0.69 0.45 0.23
Delay/Veh:   76.2 66.0 35.5 58.7 53.6 25.7 52.5 43.4 24.7 55.3 36.1 15.1
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
AdjDel/Veh:  76.2 66.0 35.5 58.7 53.6 25.7 52.5 43.4 24.7 55.3 36.1 15.1
LOS by Move:  E-   E   D+   E+   D-    C   D-    D    C   E+   D+    B
HCM2kAvgQ:      7    8    8   12   14    6    7   18    3   14   11    5
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

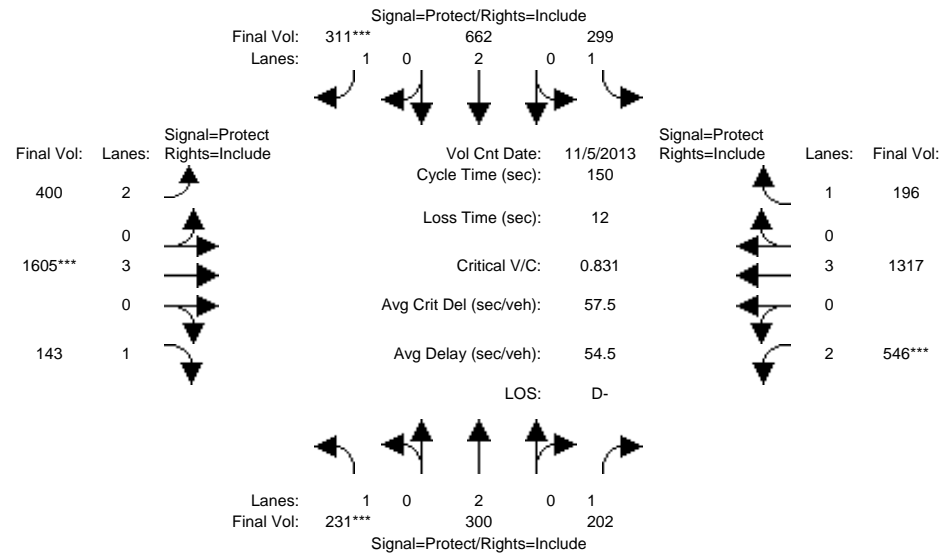## Intersection #3683: McLAUGHLIN/STORY

```
                        Signal=Protect/Rights=Include
              Final Vol:    226        391        195***
              Lanes:         1    0     2    0     1

                    ↰    ↰↓↓   ↓   ↰→    ↱

Final Vol:  Lanes:  Signal=Protect                           Signal=Protect   Lanes:  Final Vol:
            Rights=Include    Vol Cnt Date:   4/8/2009        Rights=Include
336***        2     ↰         Cycle Time (sec):  130               ↰            1      302***

              0          →                                                     0
621           3          →    Critical V/C:     0.708            ←             3      839

              0          →    Avg Crit Del (sec/veh):  46.0      ↰             0

47            1     ↱    ↓     Avg Delay (sec/veh):    43.8       ↓            2      291

                              LOS:               D

                    ↰    ↰↑   ↑   ↑→    →

              Lanes:         1    0     2    0     1
              Final Vol:    166        959***      211
                        Signal=Protect/Rights=Include
```

```
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    7   10   10     7   10   10     7   10   10     7   10   10
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 8 Apr 2009 << 7:30-8:30AM
Base Vol:     134  954  211   195  391  171   299  495   23   291  648  301
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  134  954  211   195  391  171   299  495   23   291  648  301
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:           32    5    0     0    0   55    37  126   24     0  191    1
Initial Fut:  166  959  211   195  391  226   336  621   47   291  839  302
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   166  959  211   195  391  226   336  621   47   291  839  302
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  166  959  211   195  391  226   336  621   47   291  839  302
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  166  959  211   195  391  226   336  621   47   291  839  302
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.92 1.00 0.92  0.92 1.00 0.92  0.83 1.00 0.92  0.83 1.00 0.92
Lanes:       1.00 2.00 1.00  1.00 2.00 1.00  2.00 3.00 1.00  2.00 3.00 1.00
Final Sat.:  1750 3800 1750  1750 3800 1750  3150 5700 1750  3150 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.09 0.25 0.12  0.11 0.10 0.13  0.11 0.11 0.03  0.09 0.15 0.17
Crit Moves:       ****            ****            ****            ****
Green Time:  28.3 46.3 46.3  20.4 38.5 38.5  19.6 27.7 27.7  23.5 31.7 31.7
Volume/Cap:  0.44 0.71 0.34  0.71 0.35 0.44  0.71 0.51 0.13  0.51 0.60 0.71
Delay/Veh:   44.8 37.8 31.0  60.2 36.1 37.6  57.4 45.5 41.5  48.8 44.4 50.4
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  44.8 37.8 31.0  60.2 36.1 37.6  57.4 45.5 41.5  48.8 44.4 50.4
LOS by Move:   D   D+    C     E   D+   D+    E+    D    D     D    D    D
HCM2kAvgQ:      6   17    7     9    6    8     9    8    2     7   10   13
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

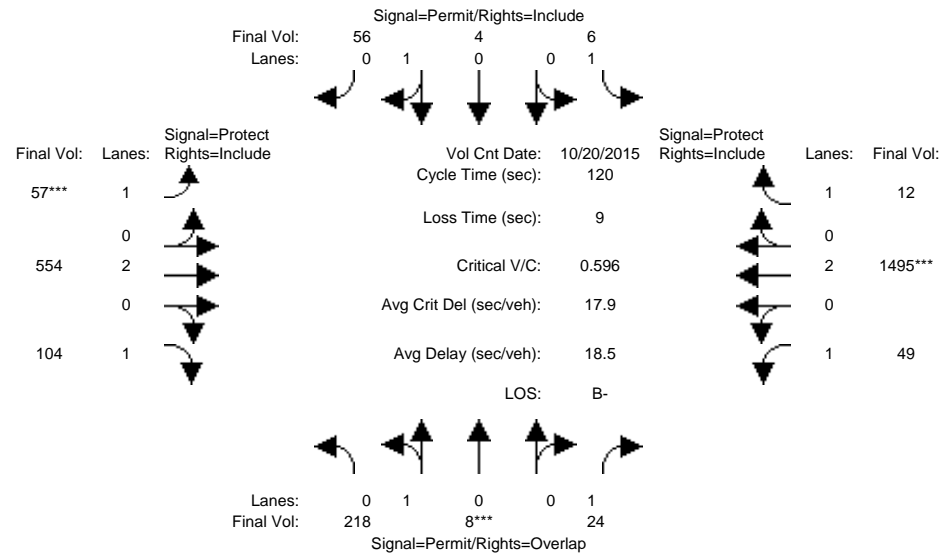## Intersection #3683: McLAUGHLIN/STORY

```
                              Signal=Protect/Rights=Include
                  Final Vol:   311***         662          299
                     Lanes:     1    0         2       0     1

                Signal=Protect
Final Vol:  Lanes:  Rights=Include                                 Signal=Protect
                                     Vol Cnt Date:   11/5/2013     Rights=Include   Lanes:  Final Vol:
                                     Cycle Time (sec):    150
  400     2                                                                          1       196

          0                          Loss Time (sec):     12                        0

 1605***  3                          Critical V/C:       0.831                       3       1317

          0                          Avg Crit Del (sec/veh):  57.5                   0

  143     1                          Avg Delay (sec/veh):    54.5                     2       546***

                                     LOS:                 D-

                     Lanes:     1    0         2       0     1
                  Final Vol:   231***         300          202
                              Signal=Protect/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    7   10   10     7   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 5 Nov 2013 << 5:00-6:00PM
Base Vol:    160  286  197   296  645  191   280 1194   70   535  907  191
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 160  286  197   296  645  191   280 1194   70   535  907  191
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:          71   14    5     3   17  120   120  411   73    11  410    5
Initial Fut: 231  300  202   299  662  311   400 1605  143   546 1317  196
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  231  300  202   299  662  311   400 1605  143   546 1317  196
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 231  300  202   299  662  311   400 1605  143   546 1317  196
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 231  300  202   299  662  311   400 1605  143   546 1317  196
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 1.00 0.92  0.92 1.00 0.92  0.83 1.00 0.92  0.83 1.00 0.92
Lanes:      1.00 2.00 1.00  1.00 2.00 1.00  2.00 3.00 1.00  2.00 3.00 1.00
Final Sat.: 1750 3800 1750  1750 3800 1750  3150 5700 1750  3150 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.13 0.08 0.12  0.17 0.17 0.18  0.13 0.28 0.08  0.17 0.23 0.11
Crit Moves: ****                 ****            ****            ****
Green Time: 23.8 22.5 22.5  33.4 32.1 32.1  29.1 50.8 50.8  31.3 53.0 53.0
Volume/Cap: 0.83 0.53 0.77  0.77 0.81 0.83  0.65 0.83 0.24  0.83 0.65 0.32
Delay/Veh:  79.8 59.7 74.1  63.7 62.5 70.9  58.3 48.9 35.9  65.6 41.6 35.6
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 79.8 59.7 74.1  63.7 62.5 70.9  58.3 48.9 35.9  65.6 41.6 35.6
LOS by Move:  E-   E+    E     E    E    E    E+    D   D+     E    D   D+
HCM2kAvgQ:    13    7   11    15   16   17    11   24    5    17   17    7
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

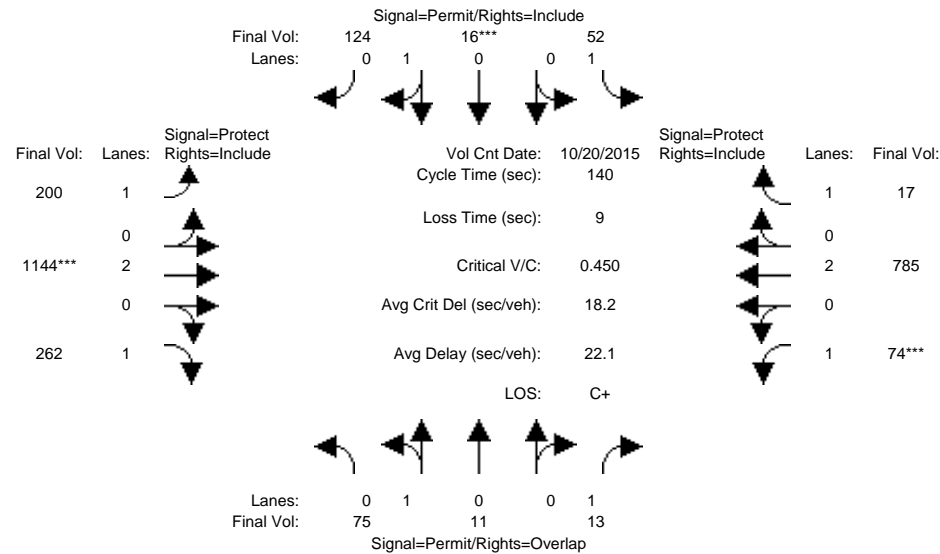Intersection #3757: ROBERTS/STORY

```
                            Signal=Permit/Rights=Include
             Final Vol:      56         4          6
             Lanes:       0   1     0        0   1

         Signal=Protect
Final Vol: Lanes: Rights=Include        Vol Cnt Date:  10/20/2015   Signal=Protect   Lanes:  Final Vol:
                                        Cycle Time (sec):   120     Rights=Include
 57***      1                                                                         1        12

            0                           Loss Time (sec):      9                       0

 554        2                           Critical V/C:       0.596                      2     1495***

            0                           Avg Crit Del (sec/veh):  17.9                 0

 104        1                           Avg Delay (sec/veh):  18.5                    1        49

                                        LOS:                  B-

             Lanes:       0   1     0        0   1
             Final Vol:      218       8***       24
                            Signal=Permit/Rights=Overlap
```

```
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10     10   10   10      7   10   10      7   10   10
Y+R:         4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 20 Oct 2015 << 7:15-8:15
Base Vol:    218    8   24      6    4   56     57  554  104     49 1495   12
Growth Adj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse: 218    8   24      6    4   56     57  554  104     49 1495   12
Added Vol:     0    0    0      0    0    0      0    0    0      0    0    0
ATI:           0    0    0      0    0    0      0    0    0      0    0    0
Initial Fut: 218    8   24      6    4   56     57  554  104     49 1495   12
User Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:  218    8   24      6    4   56     57  554  104     49 1495   12
Reduct Vol:    0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol: 218    8   24      6    4   56     57  554  104     49 1495   12
PCE Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume: 218    8   24      6    4   56     57  554  104     49 1495   12
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment: 0.95 0.95 0.92   0.92 0.95 0.95   0.92 1.00 0.92   0.92 1.00 0.92
Lanes:      0.96 0.04 1.00   1.00 0.07 0.93   1.00 2.00 1.00   1.00 2.00 1.00
Final Sat.: 1736   64 1750   1750  120 1680   1750 3800 1750   1750 3800 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.13 0.13 0.01   0.00 0.03 0.03   0.03 0.15 0.06   0.03 0.39 0.01
Crit Moves:      ****                ****                ****        ****
Green Time: 25.2 25.2 49.7   25.2 25.2 25.2    7.0 61.3 61.3   24.5 78.8 78.8
Volume/Cap: 0.60 0.60 0.03   0.02 0.16 0.16   0.56 0.29 0.12   0.14 0.60 0.01
Delay/Veh:  45.5 45.5 20.9   37.6 39.0 39.0   61.8 16.9 15.3   39.2 12.0  7.1
User DelAdj:1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh: 45.5 45.5 20.9   37.6 39.0 39.0   61.8 16.9 15.3   39.2 12.0  7.1
LOS by Move:  D    D   C+     D+   D+   D+      E    B    B      D    B    A
HCM2kAvgQ:     9    9    1      0    2    2      3    6    2      2   16    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (PM)

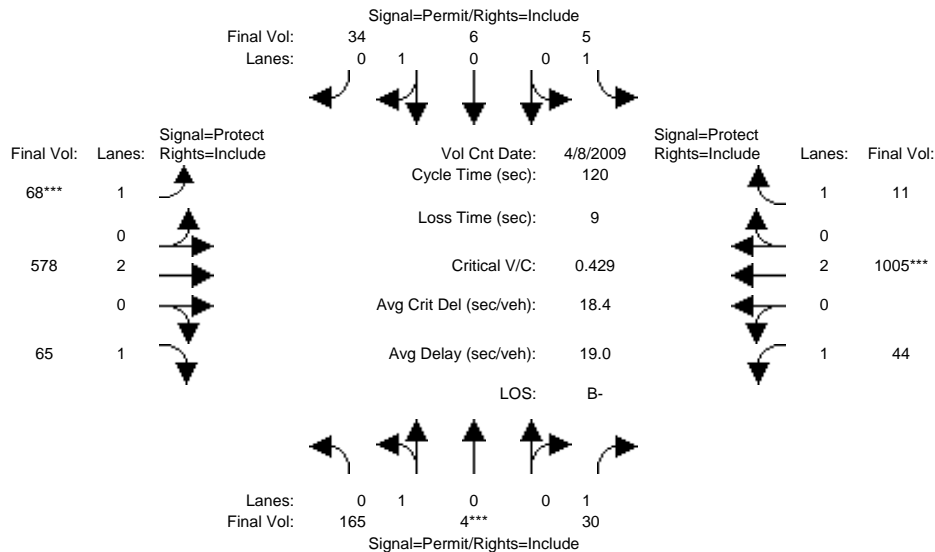## Intersection #3757: ROBERTS/STORY

Signal=Permit/Rights=Include

| Final Vol: | 124 | 16*** | 52 |
| Lanes: | 0 1 | 0 | 0 1 |

Signal=Protect
Rights=Include

| Final Vol: | Lanes: | | | | Signal=Protect Rights=Include | Lanes: | Final Vol: |

Final Vol	Lanes					Lanes	Final Vol
200	1		Vol Cnt Date:	10/20/2015		1	17
			Cycle Time (sec):	140			
	0		Loss Time (sec):	9		0	
1144***	2		Critical V/C:	0.450		2	785
	0		Avg Crit Del (sec/veh):	18.2		0	
262	1		Avg Delay (sec/veh):	22.1		1	74***
			LOS:	C+			

| Lanes: | 0 1 | 0 | 0 1 |
| Final Vol: | 75 | 11 | 13 |

Signal=Permit/Rights=Overlap

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 20 Oct 2015 << 4:30-5:30
Base Vol:     75   11   13    52   16  124   200 1144  262    74  785   17
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  75   11   13    52   16  124   200 1144  262    74  785   17
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:  75   11   13    52   16  124   200 1144  262    74  785   17
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   75   11   13    52   16  124   200 1144  262    74  785   17
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:  75   11   13    52   16  124   200 1144  262    74  785   17
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:  75   11   13    52   16  124   200 1144  262    74  785   17
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.95 0.95 0.92  0.92 0.95 0.95  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      0.87 0.13 1.00  1.00 0.11 0.89  1.00 2.00 1.00  1.00 2.00 1.00
Final Sat.: 1570  230 1750  1750  206 1594  1750 3800 1750  1750 3800 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.05 0.05 0.01  0.03 0.08 0.08  0.11 0.30 0.15  0.04 0.21 0.01
Crit Moves:           ****             ****             ****
Green Time: 24.2 24.2 37.3  24.2 24.2 24.2  38.0 93.7 93.7  13.2 68.8 68.8
Volume/Cap: 0.28 0.28 0.03  0.17 0.45 0.45  0.42 0.45 0.22  0.45 0.42 0.02
Delay/Veh:  50.8 50.8 37.9  49.6 53.0 53.0  42.5 11.1  9.1  62.0 23.0 18.3
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 50.8 50.8 37.9  49.6 53.0 53.0  42.5 11.1  9.1  62.0 23.0 18.3
LOS by Move:  D    D   D+     D   D-   D-     D   B+    A     E   C+   B-
HCM2kAvgQ:     3    3    0     2    6    6     8   11    5     4   11    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

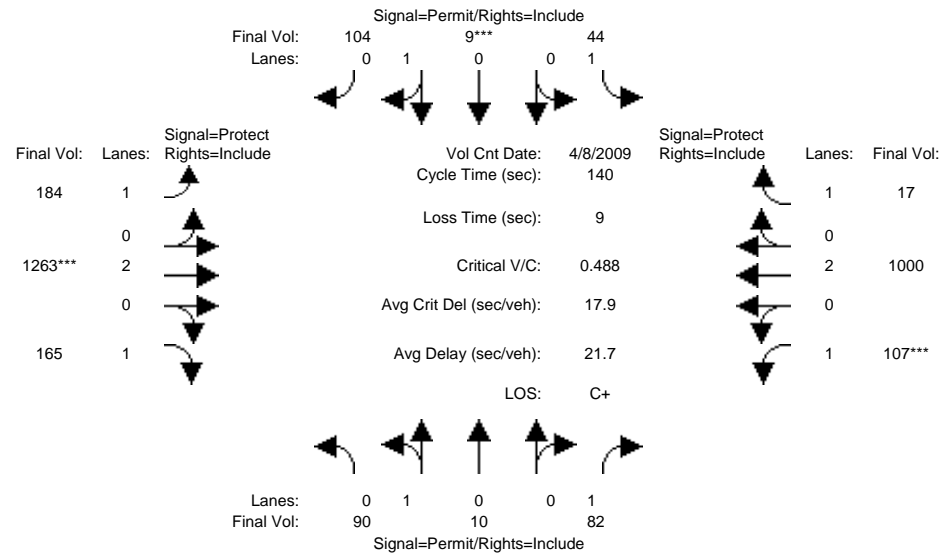Intersection #3757: ROBERTS/STORY

```
                              Signal=Permit/Rights=Include
                  Final Vol:      34        6        5
                  Lanes:       0   1     0       0   1


       Signal=Protect                                      Signal=Protect
Final Vol:  Lanes: Rights=Include      Vol Cnt Date: 4/8/2009   Rights=Include  Lanes: Final Vol:
                                       Cycle Time (sec):   120
68***      1                                                               1        11

           0                           Loss Time (sec):     9
                                                                          0
578        2                           Critical V/C:    0.429             2      1005***

           0                           Avg Crit Del (sec/veh): 18.4       0

65         1                           Avg Delay (sec/veh):  19.0         1        44

                                       LOS:              B-


                  Lanes:       0   1     0       0   1
                  Final Vol:     165       4***     30
                              Signal=Permit/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   10   10   10    10   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 8 Apr 2009 << 7:45-8:45AM
Base Vol:    165    4   30     5    6   34    68  494   65    44  949   11
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 165    4   30     5    6   34    68  494   65    44  949   11
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0   84    0     0   56    0
Initial Fut: 165    4   30     5    6   34    68  578   65    44 1005   11
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  165    4   30     5    6   34    68  578   65    44 1005   11
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 165    4   30     5    6   34    68  578   65    44 1005   11
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 165    4   30     5    6   34    68  578   65    44 1005   11
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.95 0.95 0.92  0.92 0.95 0.95  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:      0.98 0.02 1.00  1.00 0.15 0.85  1.00 2.00 1.00  1.00 2.00 1.00
Final Sat.: 1757   43 1750  1750  270 1530  1750 3800 1750  1750 3800 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.09 0.09 0.02  0.00 0.02 0.02  0.04 0.15 0.04  0.03 0.26 0.01
Crit Moves:      ****                  ****                   ****
Green Time: 26.2 26.2 26.2  26.2 26.2 26.2  10.9 61.3 61.3  23.5 73.9 73.9
Volume/Cap: 0.43 0.43 0.08  0.01 0.10 0.10  0.43 0.30 0.07  0.13 0.43 0.01
Delay/Veh:  41.2 41.2 37.4  36.8 37.6 37.6  53.5 17.0 15.0  40.0 12.2  8.9
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 41.2 41.2 37.4  36.8 37.6 37.6  53.5 17.0 15.0  40.0 12.2  8.9
LOS by Move:   D    D   D+    D+   D+   D+    D-    B    B     D    B    A
HCM2kAvgQ:     6    6    1     0    1    1     3    6    1     1    9    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

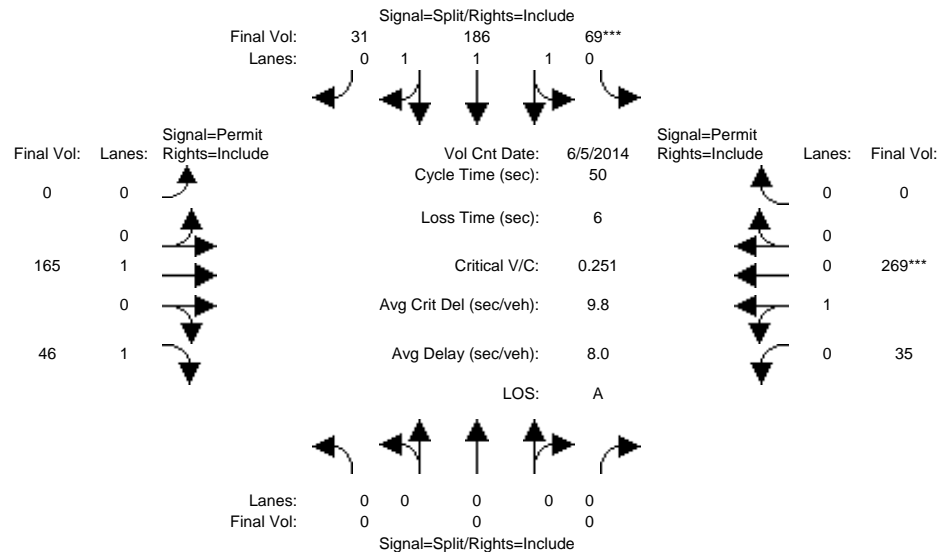### Intersection #3757: ROBERTS/STORY

```
                              Signal=Permit/Rights=Include
             Final Vol:    104         9***        44
             Lanes:       0   1    0        0   1


         Signal=Protect                                   Signal=Protect
Final Vol: Lanes: Rights=Include    Vol Cnt Date:  4/8/2009  Rights=Include  Lanes: Final Vol:
                                    Cycle Time (sec):   140
   184      1                                                        1      17

            0                       Loss Time (sec):     9            0

 1263***    2                       Critical V/C:      0.488          2      1000

            0                       Avg Crit Del (sec/veh):  17.9     0

   165      1                       Avg Delay (sec/veh):  21.7        1      107***

                                    LOS:               C+


             Lanes:       0   1    0        0   1
             Final Vol:    90         10          82
                              Signal=Permit/Rights=Include
```

```
Approach:       North Bound    South Bound    East Bound     West Bound
Movement:     L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
            ------------------||---------------||---------------||---------------|
Min. Green:    10   10   10    10   10   10     7   10   10     7   10   10
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
            ------------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 8 Apr 2009 << 4:45-5:45PM
Base Vol:      90   10   82    44    9  104   184 1086  165   107  823   17
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:   90   10   82    44    9  104   184 1086  165   107  823   17
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:            0    0    0     0    0    0     0  177    0     0  177    0
Initial Fut:   90   10   82    44    9  104   184 1263  165   107 1000   17
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:    90   10   82    44    9  104   184 1263  165   107 1000   17
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:   90   10   82    44    9  104   184 1263  165   107 1000   17
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:   90   10   82    44    9  104   184 1263  165   107 1000   17
            ------------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.95 0.95 0.92  0.92 0.95 0.95  0.92 1.00 0.92  0.92 1.00 0.92
Lanes:       0.90 0.10 1.00  1.00 0.08 0.92  1.00 2.00 1.00  1.00 2.00 1.00
Final Sat.:  1620  180 1750  1750  143 1657  1750 3800 1750  1750 3800 1750
            ------------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.06 0.06 0.05  0.03 0.06 0.06  0.11 0.33 0.09  0.06 0.26 0.01
Crit Moves:                       ****               ****          ****
Green Time:  18.0 18.0 18.0  18.0 18.0 18.0  32.3 95.4 95.4  17.6 80.7 80.7
Volume/Cap:  0.43 0.43 0.36  0.20 0.49 0.49  0.46 0.49 0.14  0.49 0.46 0.02
Delay/Veh:   57.6 57.6 56.8  54.9 58.3 58.3  47.2 10.8  7.9  58.7 17.2 12.7
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  57.6 57.6 56.8  54.9 58.3 58.3  47.2 10.8  7.9  58.7 17.2 12.7
LOS by Move:   E+   E+   E+    D-   E+   E+     D   B+    A    E+    B    B
HCM2kAvgQ:      5    5    4     2    5    5     7   13    3     5   12    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
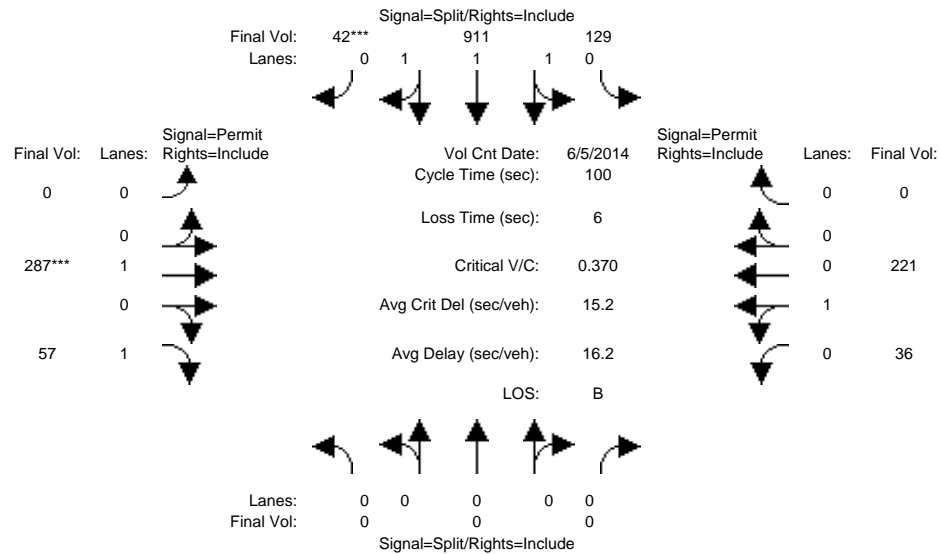Existing (AM)

Intersection #3835: VINE/WILLOW

```
                              Signal=Split/Rights=Include
              Final Vol:    31        186        69***
              Lanes:     0     1      1      1     0

                 ↰        ↙↓     ↓     ↓↱        ↱

      Signal=Permit                                    Signal=Permit
Final Vol: Lanes: Rights=Include   Vol Cnt Date:  6/5/2014  Rights=Include  Lanes: Final Vol:
                                   Cycle Time (sec):   50
   0     0     ↱                                                          0      0

         0     ↑↑                  Loss Time (sec):     6                 0
  165    1     →                                                          0     269***
         0     ↓→                  Critical V/C:      0.251               1

   46    1     ↓↓                  Avg Crit Del (sec/veh): 9.8            0      35

                                   Avg Delay (sec/veh):  8.0

                                   LOS:              A

                 ↰        ↖↑     ↑     ↑↱        ↱

              Lanes:     0     0      0      0     0
              Final Vol:  0        0          0
                              Signal=Split/Rights=Include
```

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:    0    0    0   10   10   10     0   10   10    10   10    0
Y+R:         4.0  4.0  4.0  4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 5 Jun 2014 << 7:15-8:15
Base Vol:      0    0    0   69  186   31     0  165   46    35  269    0
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:   0    0    0   69  186   31     0  165   46    35  269    0
Added Vol:     0    0    0    0    0    0     0    0    0     0    0    0
ATI:           0    0    0    0    0    0     0    0    0     0    0    0
Initial Fut:   0    0    0   69  186   31     0  165   46    35  269    0
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:    0    0    0   69  186   31     0  165   46    35  269    0
Reduct Vol:    0    0    0    0    0    0     0    0    0     0    0    0
Reduced Vol:   0    0    0   69  186   31     0  165   46    35  269    0
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:   0    0    0   69  186   31     0  165   46    35  269    0
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900 1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.92 1.00 0.92 0.95 0.97 0.95  0.92 1.00 0.92  0.95 0.95 0.92
Lanes:      0.00 0.00 0.00 0.74 1.93 0.33  0.00 1.00 1.00  0.12 0.88 0.00
Final Sat.:    0    0    0 1327 3576  596     0 1900 1750   207 1593    0
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.00 0.00 0.00 0.05 0.05 0.05  0.00 0.09 0.03  0.17 0.17 0.00
Crit Moves:              ****                        ****
Green Time:  0.0  0.0  0.0 10.4 10.4 10.4   0.0 33.6 33.6  33.6 33.6  0.0
Volume/Cap: 0.00 0.00 0.00 0.25 0.25 0.25  0.00 0.13 0.04  0.25 0.25 0.00
Delay/Veh:   0.0  0.0  0.0 16.7 16.7 16.7   0.0  3.0  2.8   3.3  3.3  0.0
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:  0.0  0.0  0.0 16.7 16.7 16.7   0.0  3.0  2.8   3.3  3.3  0.0
LOS by Move:  A    A    A    B    B    B     A    A    A     A    A    A
HCM2kAvgQ:    0    0    0    1    1    1     0    1    0     2    2    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
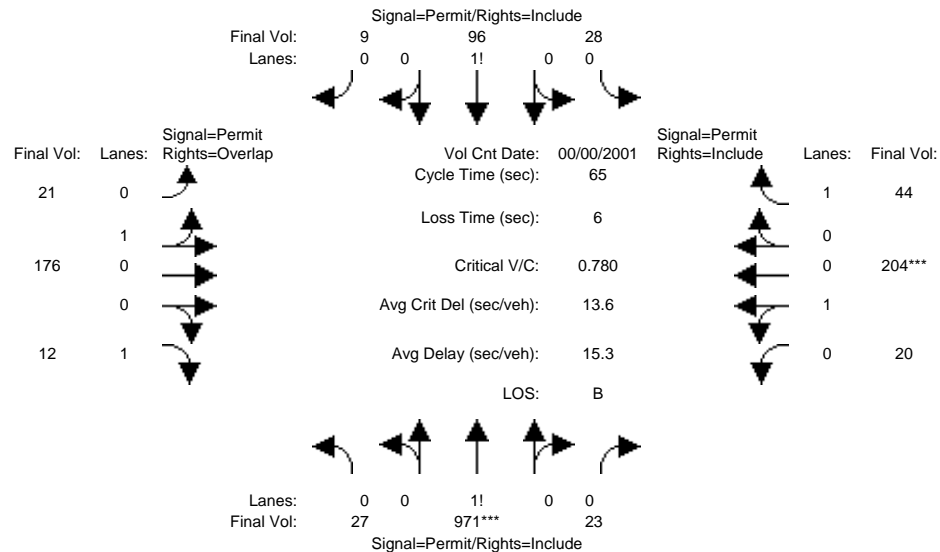Existing (PM)

Intersection #3835: VINE/WILLOW

Signal=Split/Rights=Include

	Final Vol:	42***	911	129
	Lanes:	0 1	1	1 0

Final Vol:	Lanes:	Signal=Permit Rights=Include			Signal=Permit Rights=Include	Lanes:	Final Vol:
0	0		Vol Cnt Date:	6/5/2014		0	0
	0		Cycle Time (sec):	100		0	
287***	1		Loss Time (sec):	6		0	221
	0		Critical V/C:	0.370		1	
57	1		Avg Crit Del (sec/veh):	15.2		0	36
			Avg Delay (sec/veh):	16.2			
			LOS:	B			

	Lanes:	0 0	0	0 0
	Final Vol:	0	0	0

Signal=Split/Rights=Include

```
Approach:      North Bound    South Bound    East Bound     West Bound
Movement:    L  -  T  -  R   L  -  T  -  R  L  -  T  -  R   L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   0    0    0    10   10   10    0   10   10    10   10    0
Y+R:        4.0  4.0  4.0   4.0  4.0  4.0  4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 5 Jun 2014 << 5:00-6:00
Base Vol:     0    0    0   129  911   42    0  287   57    36  221    0
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:  0    0    0   129  911   42    0  287   57    36  221    0
Added Vol:    0    0    0     0    0    0    0    0    0     0    0    0
ATI:          0    0    0     0    0    0    0    0    0     0    0    0
Initial Fut:  0    0    0   129  911   42    0  287   57    36  221    0
User Adj:   1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   0    0    0   129  911   42    0  287   57    36  221    0
Reduct Vol:   0    0    0     0    0    0    0    0    0     0    0    0
Reduced Vol:  0    0    0   129  911   42    0  287   57    36  221    0
PCE Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume:  0    0    0   129  911   42    0  287   57    36  221    0
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900
Adjustment: 0.92 1.00 0.92 0.95 0.97 0.95 0.92 1.00 0.92 0.95 0.95 0.92
Lanes:      0.00 0.00 0.00 0.36 2.52 0.12 0.00 1.00 1.00 0.14 0.86 0.00
Final Sat.:   0    0    0   656 4630  213    0 1900 1750   252 1548    0
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.00 0.00 0.00 0.20 0.20 0.20 0.00 0.15 0.03 0.14 0.14 0.00
Crit Moves:                      ****           ****
Green Time:  0.0  0.0  0.0 53.2 53.2 53.2  0.0 40.8 40.8  40.8 40.8  0.0
Volume/Cap: 0.00 0.00 0.00 0.37 0.37 0.37 0.00 0.37 0.08  0.35 0.35 0.00
Delay/Veh:   0.0  0.0  0.0 13.7 13.7 13.7  0.0 20.9 18.1  20.7 20.7  0.0
User DelAdj:1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
AdjDel/Veh:  0.0  0.0  0.0 13.7 13.7 13.7  0.0 20.9 18.1  20.7 20.7  0.0
LOS by Move:  A    A    A    B    B    B    A   C+   B-    C+   C+    A
HCM2kAvgQ:    0    0    0    7    7    7    0    6    1     6    6    0
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

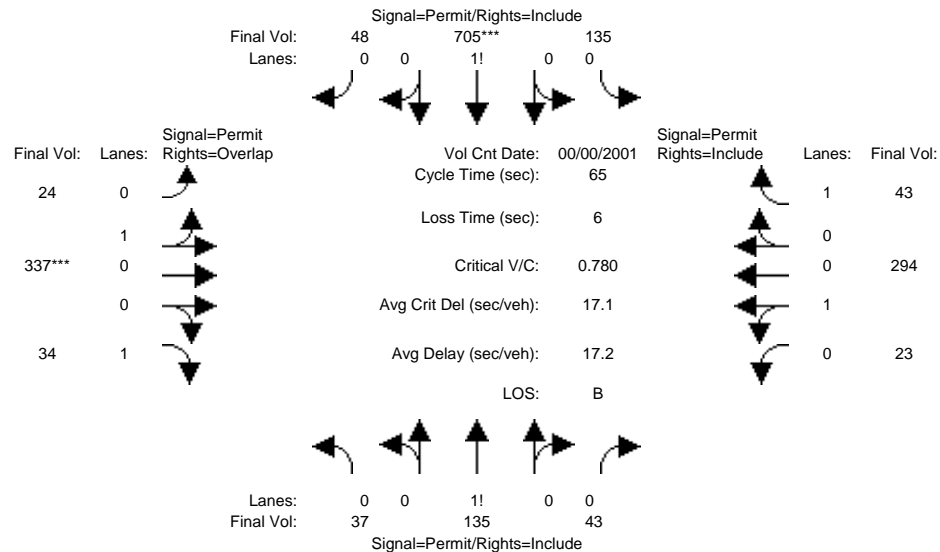## Intersection #3835: VINE/WILLOW

Signal=Permit/Rights=Include

Final Vol:	9	96	28
Lanes:	0 0	1!	0 0

		Signal=Permit		
Final Vol:	Lanes:	Rights=Overlap		
			Vol Cnt Date:	00/00/2001
21	0		Cycle Time (sec):	65
	1		Loss Time (sec):	6
176	0		Critical V/C:	0.780
	0		Avg Crit Del (sec/veh):	13.6
12	1		Avg Delay (sec/veh):	15.3
			LOS:	B

Signal=Permit
Rights=Include   Lanes: Final Vol:

1   44
0
0   204***
1
0   20

Lanes:	0 0	1!	0 0
Final Vol:	27	971***	23

Signal=Permit/Rights=Include

```
Approach:      North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
-----------|---------------||---------------||---------------||---------------|
Min. Green:    0    0    0    10   10   10     0   10   10    10   10    0
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
-----------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 0  2001 << AM
Base Vol:      27  956   23    28   93    9    21  165   11    20  201   44
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:   27  956   23    28   93    9    21  165   11    20  201   44
Added Vol:      0    0    0     0    0    0     0    0    0     0    0    0
ATI:            0   15    0     0    3    0     0   11    1     0    3    0
Initial Fut:   27  971   23    28   96    9    21  176   12    20  204   44
User Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:    27  971   23    28   96    9    21  176   12    20  204   44
Reduct Vol:     0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:   27  971   23    28   96    9    21  176   12    20  204   44
PCE Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:   27  971   23    28   96    9    21  176   12    20  204   44
-----------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:  0.92 0.92 0.92  0.92 0.92 0.92  0.95 0.95 0.92  0.95 0.95 0.92
Lanes:       0.03 0.95 0.02  0.21 0.72 0.07  0.11 0.89 1.00  0.09 0.91 1.00
Final Sat.:    46 1664   39   368 1263  118   192 1608 1750   161 1639 1750
-----------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.58 0.58 0.58  0.08 0.08 0.08  0.11 0.11 0.01  0.12 0.12 0.03
Crit Moves:       ****                            ****
Green Time:  48.6 48.6 48.6  48.6 48.6 48.6  10.4 10.4 10.4  10.4 10.4 10.4
Volume/Cap:  0.78 0.78 0.78  0.10 0.10 0.10  0.69 0.69 0.04  0.78 0.78 0.16
Delay/Veh:    8.0  8.0  8.0   2.3  2.3  2.3  32.5 32.5 23.2  39.0 39.0 23.8
User DelAdj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:   8.0  8.0  8.0   2.3  2.3  2.3  32.5 32.5 23.2  39.0 39.0 23.8
LOS by Move:    A    A    A     A    A    A    C-   C-    C     D    D    C
HCM2kAvgQ:     15   15   15     1    1    1     5    5    0     7    7    1
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

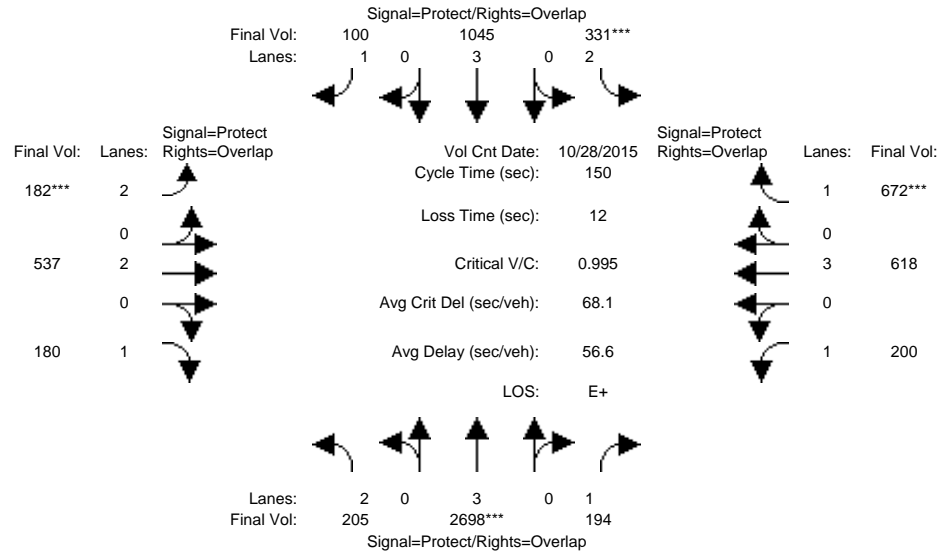Intersection #3835: VINE/WILLOW

```
                              Signal=Permit/Rights=Include
                   Final Vol:      48       705***       135
                     Lanes:     0    0        1!       0     0


Final Vol:  Lanes:  Signal=Permit                              Signal=Permit
                    Rights=Overlap     Vol Cnt Date: 00/00/2001  Rights=Include   Lanes:  Final Vol:
                                       Cycle Time (sec):   65
    24      0                                                                        1       43

            1                          Loss Time (sec):     6                        0

  337***    0                          Critical V/C:     0.780                       0      294

            0                          Avg Crit Del (sec/veh):  17.1                 1

    34      1                          Avg Delay (sec/veh):   17.2                    0       23

                                       LOS:              B


                     Lanes:     0    0        1!       0     0
                   Final Vol:      37       135        43
                              Signal=Permit/Rights=Include
```

```
Approach:        North Bound        South Bound        East Bound         West Bound
Movement:      L  -  T  -  R      L  -  T  -  R      L  -  T  -  R      L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    0    0    0     10   10   10      0   10   10     10   10    0
Y+R:          4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date:  0  2001 << PM
Base Vol:      36  131   42    131  614   43     24  327   33     20  266   42
Growth Adj:  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   36  131   42    131  614   43     24  327   33     20  266   42
Added Vol:      0    0    0      0    0    0      0    0    0      0    0    0
ATI:            1    4    1      4   91    5      0   10    1      3   28    1
Initial Fut:   37  135   43    135  705   48     24  337   34     23  294   43
User Adj:    1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Volume:    37  135   43    135  705   48     24  337   34     23  294   43
Reduct Vol:     0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:   37  135   43    135  705   48     24  337   34     23  294   43
PCE Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:     1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   37  135   43    135  705   48     24  337   34     23  294   43
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment:  0.92 0.92 0.92   0.92 0.92 0.92   0.95 0.95 0.92   0.95 0.95 0.92
Lanes:       0.17 0.63 0.20   0.15 0.80 0.05   0.07 0.93 1.00   0.07 0.93 1.00
Final Sat.:   301 1099  350    266 1389   95    120 1680 1750    131 1669 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.12 0.12 0.12   0.51 0.51 0.51   0.20 0.20 0.02   0.18 0.18 0.02
Crit Moves:                   ****              ****
Green Time:  42.3 42.3 42.3   42.3 42.3 42.3   16.7 16.7 16.7   16.7 16.7 16.7
Volume/Cap:  0.19 0.19 0.19   0.78 0.78 0.78   0.78 0.78 0.08   0.68 0.68 0.10
Delay/Veh:    4.6  4.6  4.6   11.6 11.6 11.6   30.7 30.7 18.4   26.0 26.0 18.5
User DelAdj: 1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:   4.6  4.6  4.6   11.6 11.6 11.6   30.7 30.7 18.4   26.0 26.0 18.5
LOS by Move:    A    A    A     B+   B+   B+      C    C   B-      C    C   B-
HCM2kAvgQ:      2    2    2     16   16   16      9    9    1      7    7    1
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (AM)

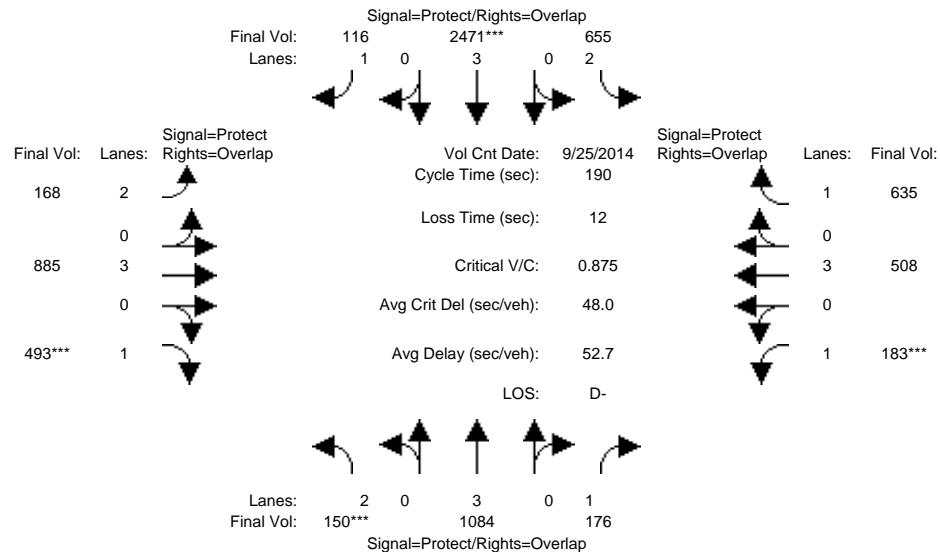## Intersection #5732: CAPITOL/STORY

```
                               Signal=Protect/Rights=Overlap
                   Final Vol:    100        1045        331***
                   Lanes:        1    0     3     0     2


              Signal=Protect                                    Signal=Protect
Final Vol:  Lanes:  Rights=Overlap         Vol Cnt Date: 10/28/2015    Rights=Overlap   Lanes:  Final Vol:
                                           Cycle Time (sec):  150
182***      2                                                                            1       672***

            0                              Loss Time (sec):   12                         0

537         2                              Critical V/C:      0.995                      3       618

            0                              Avg Crit Del (sec/veh): 68.1                  0

180         1                              Avg Delay (sec/veh): 56.6                     1       200

                                           LOS:               E+


                   Lanes:        2    0     3     0     1
                   Final Vol:    205      2698***       194
                               Signal=Protect/Rights=Overlap
```

```
Approach:     North Bound     South Bound     East Bound      West Bound
Movement:    L  -  T  -  R   L  -  T  -  R   L  -  T  -  R   L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:   7   10   10     7   10   10     7   10   10     7   10   10
Y+R:         4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 28 Oct 2015 << 7:45-8:45
Base Vol:    205 2698  194   331 1045  100   182  537  180   200  618  672
Growth Adj: 1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse: 205 2698  194   331 1045  100   182  537  180   200  618  672
Added Vol:     0    0    0     0    0    0     0    0    0     0    0    0
ATI:           0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut: 205 2698  194   331 1045  100   182  537  180   200  618  672
User Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:  205 2698  194   331 1045  100   182  537  180   200  618  672
Reduct Vol:    0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol: 205 2698  194   331 1045  100   182  537  180   200  618  672
PCE Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:    1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume: 205 2698  194   331 1045  100   182  537  180   200  618  672
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:   1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment: 0.83 1.00 0.92  0.83 1.00 0.92  0.83 1.00 0.92  0.92 1.00 0.92
Lanes:      2.00 3.00 1.00  2.00 3.00 1.00  2.00 2.00 1.00  1.00 3.00 1.00
Final Sat.: 3150 5700 1750  3150 5700 1750  3150 3800 1750  1750 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:    0.07 0.47 0.11  0.11 0.18 0.06  0.06 0.14 0.10  0.11 0.11 0.38
Crit Moves:       ****              ****           ****                   ****
Green Time: 22.9 71.4 94.1  15.8 64.4 73.1   8.7 28.1 50.9  22.7 42.1 57.9
Volume/Cap: 0.43 0.99 0.18  0.99 0.43 0.12  0.99 0.76 0.30  0.76 0.39 0.99
Delay/Veh:  58.3 55.1 11.8 114.8 30.0 21.0 135.5 62.3 36.8  72.7 43.7 79.1
User DelAdj:1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh: 58.3 55.1 11.8 114.8 30.0 21.0 135.5 62.3 36.8  72.7 43.7 79.1
LOS by Move:  E+   E+   B+    F    C    C+    F    E   D+     E    D    E-
HCM2kAvgQ:     5   48    4    13   11    3     8   13    6    11    8   40
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing (PM)

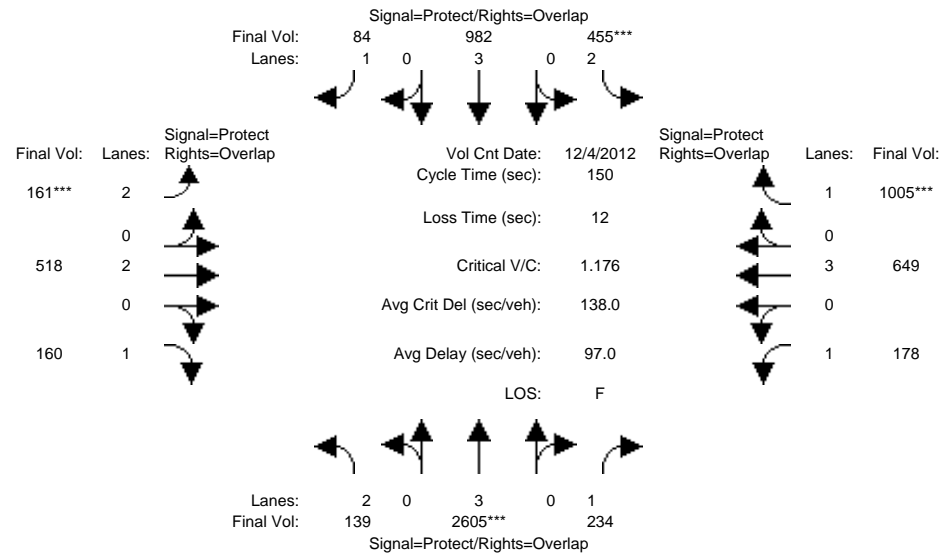## Intersection #5732: CAPITOL/STORY

```
                              Signal=Protect/Rights=Overlap
                   Final Vol:    116        2471***        655
                   Lanes:       1    0      3      0    2

                                    ↙   ↙↓   ↓   ↓↘    ↘

        Signal=Protect                                              Signal=Protect
Final Vol:  Lanes:  Rights=Overlap    Vol Cnt Date:  9/25/2014     Rights=Overlap    Lanes:  Final Vol:
                                      Cycle Time (sec):   190
   168      2      ↑↙                                                        ↑↙         1       635

            0      ↑→                 Loss Time (sec):    12                  →↑         0

   885      3      →                  Critical V/C:      0.875               ←          3       508

            0      ↓→                 Avg Crit Del (sec/veh):  48.0          ↓↙         0

   493***   1      ↙↓                 Avg Delay (sec/veh):  52.7             ↓↙         1       183***

                                      LOS:               D-

                                    ↙   ↙↑   ↑   ↑↗   ↗

                   Lanes:       2    0      3      0    1
                   Final Vol:   150***        1084        176
                              Signal=Protect/Rights=Overlap
```

```
Approach:        North Bound      South Bound      East Bound       West Bound
Movement:      L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    14   49   10    50   96   10    14   10   10    14   10   10
Y+R:          4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0   4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 25 Sep 2014 << 5:15-6:15
Base Vol:      150 1084  176   655 2471  116   168  885  493   183  508  635
Growth Adj:   1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:   150 1084  176   655 2471  116   168  885  493   183  508  635
Added Vol:       0    0    0     0    0    0     0    0    0     0    0    0
ATI:             0    0    0     0    0    0     0    0    0     0    0    0
Initial Fut:   150 1084  176   655 2471  116   168  885  493   183  508  635
User Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Adj:      1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:    150 1084  176   655 2471  116   168  885  493   183  508  635
Reduct Vol:      0    0    0     0    0    0     0    0    0     0    0    0
Reduced Vol:   150 1084  176   655 2471  116   168  885  493   183  508  635
PCE Adj:      1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
MLF Adj:      1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
FinalVolume:   150 1084  176   655 2471  116   168  885  493   183  508  635
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:     1900 1900 1900  1900 1900 1900  1900 1900 1900  1900 1900 1900
Adjustment:   0.83 1.00 0.92  0.83 1.00 0.92  0.83 1.00 0.92  0.92 1.00 0.92
Lanes:        2.00 3.00 1.00  2.00 3.00 1.00  2.00 3.00 1.00  1.00 3.00 1.00
Final Sat.:   3150 5700 1750  3150 5700 1750  3150 5700 1750  1750 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:      0.05 0.19 0.10  0.21 0.43 0.07  0.05 0.16 0.28  0.10 0.09 0.36
Crit Moves:   ****                 ****            **** ****
Green Time:   14.0 54.4 77.2  55.6 96.0 117.9 21.9 45.3 59.3  22.7 46.1 101.6
Volume/Cap:   0.65 0.66 0.25  0.71 0.86 0.11  0.46 0.65 0.90  0.87 0.37 0.68
Delay/Veh:    91.8 60.8 37.4  62.2 33.9  7.7  79.5 66.4 81.0  112.9 60.0 34.3
User DelAdj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
AdjDel/Veh:   91.8 60.8 37.4  62.2 33.9  7.7  79.5 66.4 81.0  112.9 60.0 34.3
LOS by Move:    F    E   D+     E   C-    A    E-    E    F     F    E   C-
HCM2kAvgQ:       6   19    7    20   38    1     6   17   33    14    9   36
Note: Queue reported is the number of cars per lane.
```

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (AM)

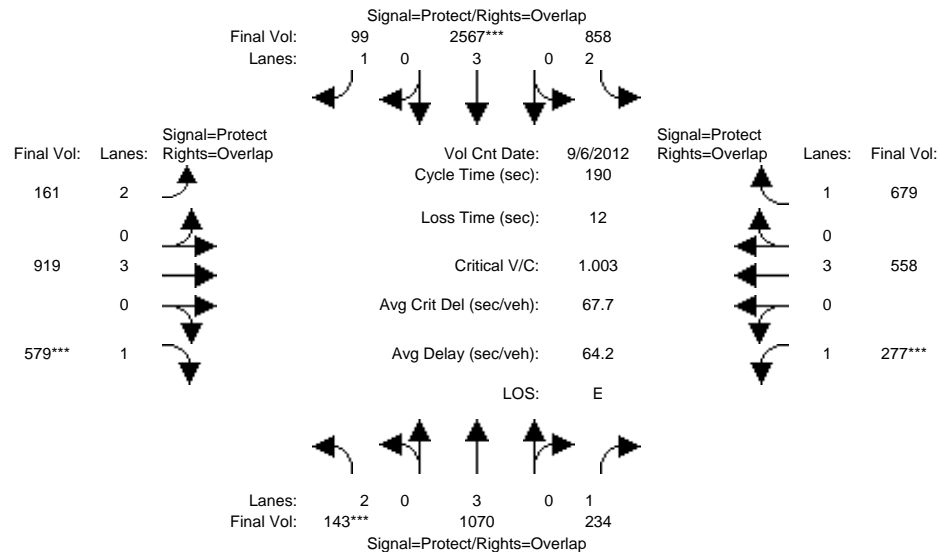## Intersection #5732: CAPITOL/STORY

```
                          Signal=Protect/Rights=Overlap
           Final Vol:    84        982        455***
           Lanes:       1    0    3    0    2

              Signal=Protect
Final Vol: Lanes: Rights=Overlap        Vol Cnt Date:  12/4/2012    Signal=Protect   Lanes: Final Vol:
                                        Cycle Time (sec):  150       Rights=Overlap
   161***   2                                                                     1     1005***

            0                           Loss Time (sec):   12                      0

   518      2                           Critical V/C:     1.176                    3      649

            0                           Avg Crit Del (sec/veh): 138.0              0

   160      1                           Avg Delay (sec/veh):    97.0               1      178

                                        LOS:              F

           Lanes:       2    0    3    0    1
           Final Vol:  139       2605***      234
                          Signal=Protect/Rights=Overlap
```

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module: >> Count Date: 4 Dec 2012 << 7:30-8:30am

	L	T	R	L	T	R	L	T	R	L	T	R
Base Vol:	117	2765	170	390	970	82	161	453	146	117	597	900
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	117	2765	170	390	970	82	161	453	146	117	597	900
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
ATI:	22	195	64	65	146	2	0	65	14	61	52	105
Initial Fut:	139	2960	234	455	1116	84	161	518	160	178	649	1005
User Adj:	1.00	0.88	1.00	1.00	0.88	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	139	2605	234	455	982	84	161	518	160	178	649	1005
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	139	2605	234	455	982	84	161	518	160	178	649	1005
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	139	2605	234	455	982	84	161	518	160	178	649	1005

Saturation Flow Module:

	L	T	R	L	T	R	L	T	R	L	T	R
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	2.00	1.00	1.00	3.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	3150	3800	1750	1750	5700	1750

Capacity Analysis Module:

	L	T	R	L	T	R	L	T	R	L	T	R
Vol/Sat:	0.04	0.46	0.13	0.14	0.17	0.05	0.05	0.14	0.09	0.10	0.11	0.57
Crit Moves:		****			****			****				****
Green Time:	16.3	58.0	84.4	18.3	60.1	67.1	7.0	35.3	51.6	26.3	54.6	73.0
Volume/Cap:	0.41	1.18	0.24	1.18	0.43	0.11	1.10	0.58	0.27	0.58	0.31	1.18
Delay/Veh:	63.1	132	16.7	170.8	32.7	24.1	173.5	51.8	35.8	59.5	34.3	131.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	63.1	132	16.7	170.8	32.7	24.1	173.5	51.8	35.8	59.5	34.3	131.9
LOS by Move:	E	F	B	F	C-	C	F	D-	D+	E+	C-	F
HCM2kAvgQ:	4	58	6	20	11	2	8	11	6	9	7	72

Note: Queue reported is the number of cars per lane.

City of San Jose
Citywide Traffix Database
(updated August 13, 2015)

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background (PM)

Intersection #5732: CAPITOL/STORY

```
                              Signal=Protect/Rights=Overlap
                    Final Vol:      99      2567***       858
                    Lanes:       1   0      3      0   2

                ↙      ↓↙      ↓      ↓↘      ↘

         Signal=Protect                                    Signal=Protect
Final Vol: Lanes: Rights=Overlap     Vol Cnt Date:  9/6/2012   Rights=Overlap  Lanes: Final Vol:
                                     Cycle Time (sec):  190
  161    2    ↱                                                      ↰   1      679

         0    →                      Loss Time (sec):   12           ←   0

  919    3    →                      Critical V/C:     1.003         ←   3      558

         0    →                      Avg Crit Del (sec/veh): 67.7        0

  579*** 1    ↓                      Avg Delay (sec/veh):  64.2    ↰   1      277***

                                     LOS:               E

                ↙      ↖↑      ↑      ↑↗      ↗

                    Lanes:       2   0      3      0   1
                    Final Vol:     143***          1070         234
                              Signal=Protect/Rights=Overlap
```

```
Approach:        North Bound       South Bound       East Bound        West Bound
Movement:      L  -  T  -  R     L  -  T  -  R     L  -  T  -  R     L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Min. Green:    14   49   10     50   96   10     14   10   10     14   10   10
Y+R:          4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0    4.0  4.0  4.0
------------|---------------||---------------||---------------||---------------|
Volume Module: >> Count Date: 6 Sep 2012 << 5:15-6:15PM
Base Vol:      119 1135  185    783 2804   97    159  862  540    222  509  610
Growth Adj:   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
Initial Bse:   119 1135  185    783 2804   97    159  862  540    222  509  610
Added Vol:       0    0    0      0    0    0      0    0    0      0    0    0
ATI:            23  157   47     66  186    1      0   48   33     52   43   62
Initial Fut:   142 1292  232    849 2990   98    159  910  573    274  552  672
User Adj:     1.00 0.82 1.00   1.00 0.85 1.00   1.00 1.00 1.00   1.00 1.00 1.00
PHF Adj:      0.99 0.99 0.99   0.99 0.99 0.99   0.99 0.99 0.99   0.99 0.99 0.99
PHF Volume:    143 1070  234    858 2567   99    161  919  579    277  558  679
Reduct Vol:      0    0    0      0    0    0      0    0    0      0    0    0
Reduced Vol:   143 1070  234    858 2567   99    161  919  579    277  558  679
PCE Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
MLF Adj:      1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
FinalVolume:   143 1070  234    858 2567   99    161  919  579    277  558  679
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:     1900 1900 1900   1900 1900 1900   1900 1900 1900   1900 1900 1900
Adjustment:   0.83 1.00 0.92   0.83 1.00 0.92   0.83 1.00 0.92   0.92 1.00 0.92
Lanes:        2.00 3.00 1.00   2.00 3.00 1.00   2.00 3.00 1.00   1.00 3.00 1.00
Final Sat.:   3150 5700 1750   3150 5700 1750   3150 5700 1750   1750 5700 1750
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:      0.05 0.19 0.13   0.27 0.45 0.06   0.05 0.16 0.33   0.16 0.10 0.39
Crit Moves:   ****                  ****            ****  ****
Green Time:   14.0 53.5 79.4   56.5 96.0 122.5  26.5 42.1 56.1   25.9 41.5 98.0
Volume/Cap:   0.62 0.67 0.32   0.92 0.89 0.09   0.37 0.73 1.12   1.16 0.45 0.75
Delay/Veh:    90.4 61.4 37.4   77.0 36.0  5.8   74.7 70.8 143.9 190.4 64.6 40.0
User DelAdj:  1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00   1.00 1.00 1.00
AdjDel/Veh:   90.4 61.4 37.4   77.0 36.0  5.8   74.7 70.8 143.9 190.4 64.6 40.0
LOS by Move:    F    E   D+     E-   D+    A      E    E    F      F    E    D
HCM2kAvgQ:       6   18    9     31   43    1      6   18   47     25   10   40
Note: Queue reported is the number of cars per lane.
```