Phone: E-mail:	Fax:
	Diverge Analysis
Analyst: Agency/Co.: Agency/Co.: Date performed: 02/11/20 Analysis time period: Freeway/dir or travel: D2 Junction: sin cierre Jurisdiction: Analysis Year: Description:	016
	Freeway Data
Type of analysis Number of lanes in freeway Free-flow speed on freeway Volume on freeway	Diverge 2 90.0 km/h 959 vph
	Off Ramp Data
Side of freeway Number of lanes in ramp Free-Flow speed on ramp Volume on ramp Length of first accel/decel lane Length of second accel/decel	lane 30 m
	_Adjacent Ramp Data (if one exists)
Does adjacent ramp exist? Volume on adjacent ramp Position of adjacent ramp Type of adjacent ramp	No vph
Distance to adjacent ramp	m
Conv	version to pc/h Under Base Conditions
Junction Components Volume, V (vph) Peak-hour factor, PHF Peak 15-min volume, v15	Freeway Ramp Adjacent Ramp 959 44 vph 0.80 0.80 300 14 v
Trucks and buses	5 5 %

```
Length
                      0.00
                            km 0.00
                                      km
                                              km
Trucks and buses PCE, ET
                              1.5
                                      1.5
Recreational vehicle PCE, ER
                               1.2
                                      1.2
Heavy vehicle adjustment, fHV
                               0.976
                                       0.976
Driver population factor, fP
                            1.00
                                    1.00
Flow rate, vp
                        1229
                                56
                                             pcph
                          Estimation of V12 Diverge Areas
              0.00 (Equation 25-8 or 25-9)
         L =
         EQ
         P =
              1.000 Using Equation 0
         FD
         v = v + (v - v) P = 1229 pcph
         12 R F R FD
                                Capacity Checks
             Actual
                       Maximum
                                    LOS F?
               1229
                        4500
  V = V
                                   No
  Fi F
              1229
                       4400
                                  No
  12
  V = V - V
               1173
                         4500
                                    No
  FO F R
                      4400
                                 No
              56
  ٧
  R
                 Level of Service Determination (if not F)
              D = 2.642 + 0.0053 \text{ v} - 0.0183 \text{ L} = 7.5
Density,
                                                   pc/km/ln
                       12
                               D
Level of service for ramp-freeway junction areas of influence B
                              Speed Estimation____
Intermediate speed variable,
                                D = 0.168
Space mean speed in ramp influence area, S = 86
                                                km/h
Space mean speed in outer lanes,
                                   S = N/A
                                            km/h
Space mean speed for all vehicles, S = 86.1
                                            km/h
```

%

%

Level

Recreational vehicles

Terrain type:

Grade

0

Level

0.00

0

Level

%

% 0.00